



# Remediation Summary and Closure Request

September 12, 2022

**Bobbi State WF Unit #003  
Crude Oil Release  
Incident No.: nAPP2133730153**

**Prepared For:**

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**Prepared By:**

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A handwritten signature in blue ink that reads 'Cynthia K. Crain'.

Cynthia K. Crain, P.G.



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## 1.0 Introduction

On behalf of Sundown Energy, LP (Sundown), Crain Environmental (CE) has prepared this *Remediation Summary and Closure Request* for the crude oil release at the Bobbi State WF Unit #003 tank battery (Site). The Site is located approximately 13 miles west of Hobbs, in Lea County, New Mexico, at global positioning system (GPS) coordinates 32.726683, -103.377463. The property surface rights are privately owned. The location of the Site is depicted on Figure 1.

## 2.0 Background

The release of approximately 200 barrels (bbls) of crude oil was discovered on November 28, 2021, and was the result of a valve failure at the oil storage tank. The valve was repaired, and approximately 185 bbls of oil was recovered by vacuum truck and returned to the oil storage tank. The release covered an area measuring 40 feet (') by 100' within the firewall of the tank battery, and two areas east of the tank battery (a 40' x 45' area and a 20' x 35' area). The release was reported to the New Mexico Oil Conservation Division (NMOCD) on November 30, 2021, via telephone, and the initial Release Notification (Form C-141) was submitted to the NMOCD fee portal on December 10, 2021. On December 13, 2021, Incident No. aPP2133730153 was assigned to the release. A copy of the C-141 is included in Appendix A.

Soil remediation began on December 6, 2021, but was not completed by the *Site Characterization Report and Remediation Workplan* due date of February 26, 2022. As Sundown elected to dismantle the tank battery, a request for a 180-day extension to complete soil remediation was submitted to the NMOCD on April 13, 2022. The NMOCD approved a 90-day extension to complete remediation (until July 13, 2022).

Soil remediation continued; however, samples at 6 locations remained above the NMOCD Closure Criteria on July 6, 2022. On July 7, 2022, Sundown requested an additional 60-day extension to complete remediation and submit a Closure Report. On July 7, 2022, an extension was approved until September 13, 2022. Copies of NMOCD correspondence are included in Appendix B.

## 3.0 NMOCD Closure Criteria

Cleanup standards for produced water spills are provided in 19.15.29 NMAC. The cleanup standards (described in the rule as "Closure Criteria") are based primarily on depth to groundwater but are also based on other criteria. Three different Closure Criteria are provided in the rule. The most stringent apply to sites where groundwater is found within 50 feet of the ground surface or if the release occurred within one of the following areas:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
- Within 1,000 feet of any fresh water well or spring.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
- Within 300 feet of a wetland.



- Within the area overlying a subsurface mine.
- Within an unstable area such as a karst formation.
- Within a 100-year floodplain.

CE reviewed available information to determine the Closure Criteria for the Site. The findings of this evaluation are summarized below.

### 3.1 Groundwater Evaluation

A review of the New Mexico Office of the State Engineer (NMOSE) records indicated there are two water wells located within 0.5 mile of the Site (L 3120 and L 07409). The NMOSE records provided a depth to groundwater measurements of 59 feet bgs at one well (L 07409) as listed in the table below. Based on the water well data available in NMOSE records, it is estimated that depth to groundwater at the Site is approximately 59 feet bgs. Figure 2 shows the locations of the two water wells.

**Nearby Water Wells**

Well ID	Location from Release Site	Year Installed	Use	Depth to Water (feet bgs)
L 3120	Approx. 2,000 feet to north	1960	N/A	NA
L 07409	Approx. 2,000 feet to northeast	1975	N/A	59

Note: NA = Not available.

### 3.2 Surface Features and Other Development

CE reviewed recent aerial photographs, topographic maps, the NMOSE Point of Discharge (POD) GIS website, and information available from the Lea County, New Mexico Central Appraisal District website. As shown on Figure 1, the Site is not located:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
  - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the topographic map (Figure 1).
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
  - The topographic map (Figure 1) indicates there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site.
- Within 300 feet from an occupied permanent residence, school, hospital, institution, or church.
  - The Site Location Map (Figure 1) and information available from the Lea County, New Mexico Central Appraisal District do not show or list any permanent residence, school, hospital, institution, or church located within 300 feet of the Site.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
  - No wells or springs located within 500 feet of the Site appear in any of the NMOSE records reviewed by CE.
- Within 1,000 feet of any fresh water well or spring.



- No fresh water wells or springs located within 1,000 feet of the Site appear in any of the records reviewed by CE.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
  - Based on the property and other records reviewed by CE, the Site is not located in incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within the area overlying a subsurface mine
  - Based on the property and other records reviewed by CE, the Site is not located within an area overlying a subsurface mine.

### 3.3 Wetlands, Floodplain, and Karst Geology

A review of the United States Fish and Wildlife Service (USFWS) wetlands map indicated the Site is not located within 300 feet of a wetland. The New Mexico Bureau of Land Management (BLM) karst potential map indicates the Site is located within a “low karst potential” area. Finally, review of the Federal Emergency Management Act (FEMA) floodplain map indicates the release at the Site is not mapped but is assumed to be located outside of a 100-year floodplain. Figures 3 and 4 depict the FEMA floodplain information and the karst potential data, respectively.

### 3.4 Closure Criteria Applicable to the Site

The Closure Criteria applicable to the Site will be based on the estimated depth to groundwater at the Release Site, which dictates the moderately stringent regulatory guidelines typically associated with groundwater depths of 51 to 100 feet bgs.

The NMOCD requires that soil concentrations from surface to a depth of 4 feet bgs must meet the most stringent Closure Criteria regardless of depth to groundwater; however, at depths greater than 4 feet bgs, the mid-level Closure Criteria is applicable to the Site. A summary of the Closure Criteria is provided in the table below and in Table 1.



### NMOCD Closure Criteria

Constituent of Concern		Closure Criteria Based on Depth to Groundwater (mg/kg)		
		≤ 50 feet bgs	51 feet to 100 feet bgs	> 100 feet bgs
Chloride (EPA 300)		600	10,000	20,000
TPH (EPA 8015M)	GRO + DRO + MRO	100	2,500	2,500
	GRO + DRO	NA	1,000	1,000
Total BTEX (EPA 8021 or 8260)		50	50	50
Benzene (EPA 8021 or 8260)		10	10	10

Notes: NA = not applicable  
 bgs = below ground surface  
 mg/kg = milligrams per kilogram  
 GRO = gasoline range organics  
 DRO = diesel range organics  
 MRO = motor oil range organics  
 TPH = total petroleum hydrocarbons  
 BTEX = benzene, toluene, ethylbenzene, and total xylenes  
 Green highlighted cells denote applicable Closure Criteria.

## 4.0 Site Assessment/Characterization Results

As per 19.15.29.11 NMAC, a Site Characterization Report will have the components described in Sections 4.1 through 4.5 of this document.

### 4.1 Site Map

As required by 19.15.29.11 NMAC, a scaled diagram showing significant Site infrastructure, sample point locations, and known subsurface features such as utilities is provided as Figure 5.

### 4.2 Depth to Groundwater

As discussed in Section 3.1, the exact depth to groundwater beneath the Site is unknown. During investigation activities, a maximum depth of 6 feet bgs was reached, at which groundwater was not encountered. A review of the NMOSE water well records indicates that depth to groundwater within 0.5 mile of the Site is 59 feet bgs.

### 4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 2. Two water wells are located within 0.5 mile of the Site. There were no other water sources, springs, or other sources of fresh water extraction identified within 0.5-mile of the Site.

### 4.4 Distance to Nearest Significant Watercourse

The horizontal distance to the nearest significant watercourse as defined in Subsection P of 19.15.17.7 NMAC is greater than 0.5-mile from the Site.



#### 4.5 Summary of Soil Remediation Activities

From December 6, 2021, through March 14, 2022, impacted soil at the Site was excavated and disposed at R360 disposal facility. On January 4, 2022, 16 soil samples (SS-1, SS-2, SS-5, SS-7 through SS-9, SS-11 through SS-18, SS-21, and SS-22) were collected from the bottom and sidewalls of the excavated areas to determine if horizontal and vertical delineation of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene, and xylenes (BTEX), and chlorides had been achieved.

All samples were placed in clean glass sample jars, properly labeled, immediately stored on ice, and submitted under proper chain-of-custody control to Eurofins Environment Testing America (Eurofins) in Midland, Texas for analysis of chlorides by EPA Method 300. All samples except SS-15 were analyzed for TPH by Environmental Protection Agency (EPA) SW-846 Method 8015 Modified, and all samples except SS-13 through SS-17 were analyzed for BTEX by EPA SW-846 Method 8021B.

Table 1 provides a summary of the laboratory results, and sample locations with laboratory concentrations are provided on Figure 5. The laboratory report and chain-of-custody documentation is provided in Appendix C.

Referring to Table 1, concentrations of BTEX were reported below the test method detection limits and/or Closure Criteria in all samples. Chloride concentrations were reported above the Closure Criteria in all samples except SS-11, SS-12, SS-15, SS-16, and SS-18. Concentrations of TPH were reported above the Closure Criteria in all samples except SS-1 and SS-21.

Additional excavation was conducted from the areas reporting TPH or chloride concentrations above the Closure Criteria, and 18 soil samples (SS-1 through SS-9, SS-11 through SS-14, SS-16 through SS-18, SS-21, and SS-22) were collected on February 8, 2022. All samples were delivered to Eurofins for analysis of TPH, BTEX, and chlorides (as necessary).

Table 1 provides a summary of all laboratory results, and sample locations with laboratory concentrations are provided on Figure 5. The laboratory report and chain-of-custody documentation is provided in Appendix C.

Referring to Table 1, concentrations of BTEX were reported below the test method detection limits and/or Closure Criteria in all samples. Chloride concentrations were reported above the Closure Criteria in all samples except SS-1, SS-2, SS-6, SS-13 through SS-18, and SS-21. Concentrations of TPH were reported above the Closure Criteria in all samples except SS-1, SS-12 through SS-14, SS-16 through SS-18, SS-21, and SS-22.

Additional excavation was conducted from the areas reporting TPH or chloride concentrations above the Closure Criteria, and 10 soil samples (SS-3, SS-4, SS-6 through SS-9, SS-11, SS-12, SS-15, and SS-22) were collected on March 14, 2022. All samples were delivered to Eurofins for analysis of TPH, BTEX, and chlorides (as necessary).

Table 1 provides a summary of all laboratory results, and sample locations with laboratory concentrations are provided on Figure 5. The laboratory report and chain-of-custody documentation is provided in Appendix C.

Referring to Table 1, concentrations of BTEX were reported below the test method detection limits and/or Closure Criteria in all samples. Chloride concentrations were reported below the Closure Criteria in all samples except SS-22. Concentrations of TPH were reported below the Closure Criteria in all samples. As complete remediation of chloride and/or TPH impacted soil inside the tank battery had not been achieved, Sundown elected to dismantle and abandon the tank battery in order to effectively remediate impacted soil.



As complete remediation of chloride and/or TPH impacted soil inside the tank battery had not been achieved, Sundown elected to abandon the tank battery in order to effectively remediate all impacted soil. From April 18, 2022, through May 23, 2022, all tanks and ancillary equipment was dismantled and removed from the Site.

On May 26, 2022, excavation of impacted soil within the tank battery resumed, and excavation and disposal of impacted soil from the bottom and sidewalls of the excavated areas continued until August 18, 2022. Confirmation soil samples were collected on June 8, June 24, and August 21, 2022.

All samples were placed in clean glass sample jars, properly labeled, immediately stored on ice, and submitted under proper chain-of-custody control to Eurofins for analysis of TPH, BTEX, and chlorides as needed.

Table 1 provides a summary of the laboratory results, and sample locations with laboratory concentrations are provided on Figure 5. The laboratory reports are provided in Appendix C. Photographs are provided in Appendix D. Referring to Table 1, all final concentrations of TPH, BTEX, and chlorides were reported below the Closure Criteria, except for the TPH concentration in sample SS-28, collected on August 2, 2022, at a depth of 2' bgs. As Eurofins inadvertently failed to analyze sample SS-28 for TPH, the sample will be re-collected and analyzed for TPH. Backfilling will not be conducted until the laboratory reports a TPH concentration less than 100 mg/kg in sample SS-28.

From December 6, 2021, through August 18, 2022, approximately 2,276 cubic yards (cy) of impacted soil was hauled to R360 for disposal. Clean soil from the rancher pit is stockpiled at the Site, pending backfill. Copies of the waste manifests are included in Appendix E.

#### **4.6 Laboratory Analytical Data Quality Assurance/Quality Control Results**

Data reported in the laboratory reports generated by Eurofins, in Midland, Texas, was reviewed to ensure that reported analytical results met data quality objectives. It was determined by quality control data associated with analytical results that reported concentrations of target analytes are defensible and that measurement data reliability is within the expected limits of sampling and analytical error. All analytical results are usable for characterization of soil at the Site. The laboratory analytical results are provided as Appendix D.

#### **5.0 Request for Approval to Backfill**

Confirmation samples reported all TPH, benzene, total BTEX and chloride concentrations at the Site below the NMOCD Closure Criteria except for the TPH concentration in sample SS-28, collected on August 2, 2022, at a depth of 2' bgs. As Eurofins inadvertently failed to analyze the SS-28 sample for TPH, the sample will be re-collected and analyzed for TPH. Backfilling will not be conducted until the laboratory reports a TPH concentration less than 100 mg/kg in sample SS-28. Approximately 2,276 cy of impacted soil was disposed at R360, and clean backfill soil is stockpiled on location, pending NMOCD approval to backfill.

Sundown respectfully requests that Closure of Incident #nAPP2133730153 for the Bobbi State WF Unit #003 be approved. The final C-141 is included in Appendix A.



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## 6.0 Distribution

Copy 1: Mike Bratcher  
New Mexico Energy, Minerals, and Natural Resources Department  
Oil Conservation Division, District 2  
811 S. First Street  
Artesia, New Mexico 88210

Copy 2: Ralph Butler  
Sundown Energy, LP  
16400 Dallas Parkway, Suite 100  
Dallas, Texas 75248



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## TABLE



TABLE 1  
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS  
SUNDOWN ENERGY, LP  
BOBBI STATE WF UNIT #003  
API # 30-025-26954  
INCIDENT ID #: nAPP2133730153

Sample ID	Sample Date	Sample Depth (feet bgs)	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
NMOCD Closure Criteria (surface to 4' bgs)					-	100	10	-	-	-	-	50	600
NMOCD Closure Criteria (> 4' bgs)				GRO + DRO = 1,000	-	2,500	10	-	-	-	-	50	10,000
milligrams per kilogram (mg/kg)													
SS-1	01/04/22	3	Excavated	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	8,700
SS-1	06/08/22	2.5	Excavated	--	--	--	--	--	--	--	--	--	1,170
SS-1	06/24/22	2.5	Excavated	--	--	--	--	--	--	--	--	--	664
SS-1	08/02/22	2.5	In Situ	--	--	--	--	--	--	--	--	--	101
SS-1	02/08/22	4.5	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,070
SS-2	01/04/22	3.5	Excavated	403	8,250	<250	8,650	0.00756	0.117	0.0555	0.154	0.334	15,100
SS-2	02/08/22	5.5	Excavated	<49.9	3,830	<49.9	3,830	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	7,420
SS-2	06/24/22	6	In Situ	<49.9	<49.9	<49.9	<49.9	--	--	--	--	--	--
SS-3	02/08/22	2	Excavated	<50.0	199	<50.0	199	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	6,090
SS-3	06/08/22	2.5	Excavated	<49.9	<49.9	<49.9	<49.9	--	--	--	--	--	1,540
SS-3	03/14/22	4.5	Excavated	<49.9	111	106	217	--	--	--	--	--	130,000
SS-3	06/08/22	5	In Situ	--	--	--	--	--	--	--	--	--	856
SS-4	02/08/22	2	Excavated	<49.9	101	<49.9	101	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	4,030
SS-4	06/08/22	2.5	Excavated	<49.9	<49.9	<49.9	<49.9	--	--	--	--	--	8,820
SS-4	03/14/22	4.5	In Situ	<50.0	641	69.1	710	--	--	--	--	--	9,120
SS-5	01/04/22	3	Excavated	434	8,490	<250	8,920	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	5,100
SS-5	02/08/22	4	Excavated	<49.9	4,830	<49.9	4,830	0.0127	0.00242	0.00251	0.00942	0.0271	8,150
SS-5	06/08/22	5	In Situ	<50.0	<50.0	<50.0	<50.0	--	--	--	--	--	4,480
SS-6	02/08/22	1	Excavated	<49.9	186	<49.9	186	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	228
SS-6	03/14/22	4.5	In Situ	<50.0	54.6	55.4	110	--	--	--	--	--	--
SS-7	01/04/22	2	Excavated	291	13,700	<250	14,000	<0.00199	<0.00199	0.00401	0.00987	0.0139	2,390
SS-7	02/08/22	3	Excavated	<50.0	495	<50.0	495	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	1,750
SS-7	03/14/22	4.5	In Situ	<49.9	<49.9	<49.9	<49.9	--	--	--	--	--	5,790
SS-8	01/04/22	2	Excavated	<50.0	973	<50.0	973	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	922
SS-8	02/08/22	2	Excavated	<50.0	360	<50.0	360	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	2,450
SS-8	06/08/22	2.5	Excavated	<50.0	<50.0	<50.0	<50.0	--	--	--	--	--	2,050
SS-8	06/24/22	2.5	Excavated	--	--	--	--	--	--	--	--	--	1,280
SS-8	06/24/22	2.5	In Situ	--	--	--	--	--	--	--	--	--	119
SS-8	03/14/22	4.5	In Situ	<50.0	<50.0	<50.0	<50.0	--	--	--	--	--	3,570
SS-9	01/04/22	2	Excavated	<250	3,420	<250	3,420	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	1,140
SS-9	02/08/22	2	Excavated	<49.9	229	<49.9	229	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	2,950
SS-9	03/14/22	4.5	In Situ	<50.0	<50.0	<50.0	<50.0	--	--	--	--	--	1,510
SS-11	01/04/22	6"	Excavated	<49.9	220	<49.9	220	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	291
SS-11	02/08/22	1.5	Excavated	<50.0	206	<50.0	206	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	3,980
SS-11	03/14/22	4.5	In Situ	<50.0	<50.0	<50.0	<50.0	--	--	--	--	--	3,460
SS-12	01/04/22	6"	Excavated	<50.0	281	<50.0	281	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	263
SS-12	02/08/22	1.5	Excavated	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	4,060
SS-12	03/14/22	4.5	In Situ	--	--	--	--	--	--	--	--	--	1,750
SS-13	01/04/22	1	Excavated	<49.9	260	<49.9	260	--	--	--	--	--	829
SS-13	02/08/22	4	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	433
SS-14	01/04/22	1	Excavated	<49.9	355	<49.9	355	--	--	--	--	--	802
SS-14	02/08/22	4	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	134
SS-15	01/04/22	1.5	In Situ	--	--	--	--	--	--	--	--	--	150
SS-15	03/14/22	1.5	In Situ	<50.0	<50.0	<50.0	<50.0	<0.0401	0.270	0.298	1.41	1.98	--
SS-16	01/04/22	2	Excavated	<50.0	496	<50.0	496	--	--	--	--	--	309
SS-16	02/08/22	4.5	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	674
SS-17	01/04/22	2	Excavated	<50.0	138	<50.0	138	--	--	--	--	--	2,380
SS-17	02/08/22	4.5	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	686

TABLE 1  
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS  
SUNDOWN ENERGY, LP  
BOBBI STATE WF UNIT #003  
API # 30-025-26954  
INCIDENT ID #: nAPP2133730153

Sample ID	Sample Date	Sample Depth (feet bgs)	Soil Status	TPH (GRO)	TPH (DRO)	TPH (MRO)	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
NMOCD Closure Criteria (surface to 4' bgs)				milligrams per kilogram (mg/kg)									
					-		100	10	-	-	-	50	600
NMOCD Closure Criteria (> 4' bgs)				GRO + DRO = 1,000	-		2,500	10	-	-	-	50	10,000
SS-18	01/04/22	2	Excavated	<50.0	<b>260</b>	<50.0	<b>260</b>	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<b>284</b>
SS-18	02/08/22	4	In Situ	<49.9	<b>81.2</b>	<49.9	<b>81.2</b>	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<b>489</b>
SS-21	01/04/22	3	Excavated	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<b>9,720</b>
SS-21	06/08/22	2.5	Excavated	--	--	--	--	--	--	--	--	--	<b>1,300</b>
SS-21	06/24/22	2.5	In Situ	--	--	--	--	--	--	--	--	--	<b>207</b>
SS-21	02/08/22	4.5	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00400	<0.00400	<b>823</b>
SS-22	01/04/22	2	Excavated	<b>2,050</b>	<b>19,100</b>	<500	<b>21,200</b>	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<b>4,480</b>
SS-22	02/08/22	2	Excavated	<49.9	<b>62.5</b>	<49.9	<b>62.5</b>	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<b>1,460</b>
SS-22	06/08/22	2.5	In Situ	--	--	--	--	--	--	--	--	--	<b>480</b>
SS-22	03/14/22	4.5	Excavated	--	--	--	--	--	--	--	--	--	<b>10,800</b>
SS-22	06/08/22	4.5	In Situ	--	--	--	--	--	--	--	--	--	<b>345</b>
SS-23	06/08/22	2.5	Excavated	<49.9	<49.9	<49.9	<49.9	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<b>1,780</b>
SS-23	06/24/22	2.5	Excavated	--	--	--	--	--	--	--	--	--	<b>695</b>
SS-23	08/02/22	2.5	In Situ	--	--	--	--	--	--	--	--	--	<b>126</b>
SS-23	06/08/22	4.5	Excavated	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<b>10,900</b>
SS-23	06/24/22	4.5	In Situ	--	--	--	--	--	--	--	--	--	<b>638</b>
SS-24	06/08/22	2.5	Excavated	<50.0	<50.0	<50.0	<50.0	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<b>870</b>
SS-24	06/08/22	4.5	In Situ	<50.0	<b>206</b>	<b>81.3</b>	<b>287.3</b>	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<b>3,670</b>
SS-25	06/08/22	4.5	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<b>424</b>
SS-26	06/08/22	4.5	In Situ	<50.0	<50.0	<50.0	<50.0	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<b>2,460</b>
SS-27	06/24/22	2	Excavated	<50.0	<50.0	<50.0	<50.0	<0.00198	<0.00198	<0.00198	<0.00397	<0.00397	<b>1,370</b>
SS-27	08/02/22	2	In Situ	--	--	--	--	--	--	--	--	--	<b>141</b>
SS-28	06/24/22	2	Excavated	<50.0	<b>326</b>	<50.0	<b>326</b>	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<b>663</b>
SS-28	08/02/22	2	In Situ	--	--	--	--	--	--	--	--	--	<b>111</b>
SS-29	06/24/22	2	In Situ	<49.9	<49.9	<49.9	<49.9	--	--	--	--	--	--
SS-30	06/24/22	2	In Situ	<49.8	<49.8	<49.8	<49.8	--	--	--	--	--	<b>1,380</b>
SS-30	08/02/22	2	In Situ	<49.9	<49.9	<49.9	<49.9	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<b>110</b>

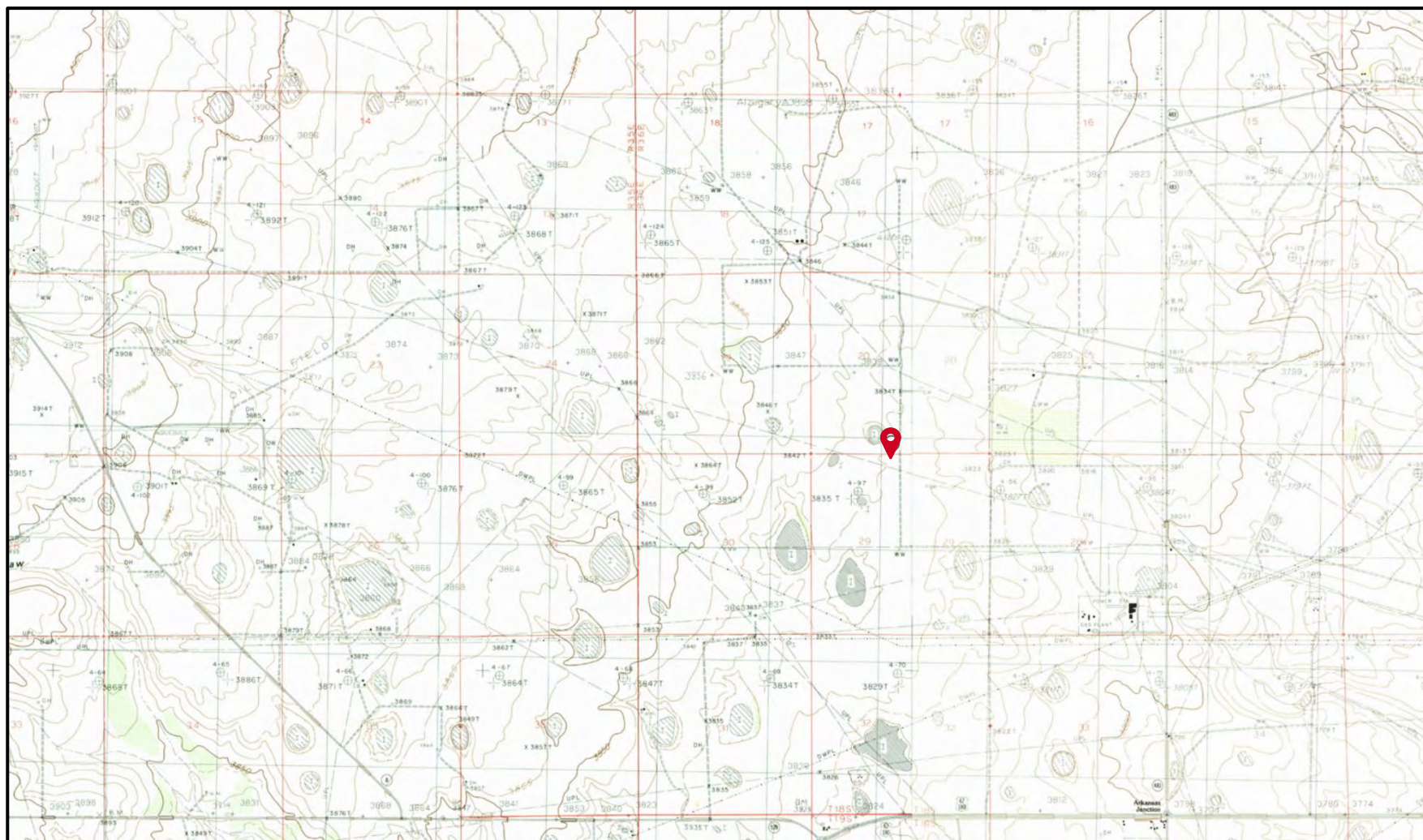
## Notes:

1. bgs: Below ground surface
2. GRO: Gasoline Range Organics
3. DRO: Diesel Range Organics
4. MRO: Motor Oil Range Organics
5. -: No NMOCD Closure Criteria established.
6. Bold indicates the COC was above the appropriate laboratory method/sample detection limit.
7. < indicates the COC was below the appropriate laboratory method/sample detection limit.
8. Bold and yellow highlighting indicates the COC was above the appropriate NMOCD Closure Criteria.
9. Bold and green highlighting with italics indicates soil was excavated and disposed.



---

## FIGURES



## LEGEND:



Site Location



Figure 1  
Site Location Map  
Sundown Energy, LP  
Bobbi State WF Unit #003  
Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: Sept. 9, 2021

GPS: 32.726683° -103.377463°

Base Map from USGS Topo





**LEGEND:**

Site and Water Well Locations



0.5 Mile Radius

Base Map from Google Earth

**Figure 2**

Wellhead Protection Area Map  
Sundown Energy, LP  
Bobbi State WF Unit #003  
Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: June 15, 2021

GPS: 32.726683° -103.377463°



**LEGEND:**

Site Location

Base Map from Google Earth and FEMA StayDry

**Figure 3**

FEMA Floodplain Map  
 Sundown Energy, LP  
 Bobbi State WF Unit #003  
 Lea County, New Mexico

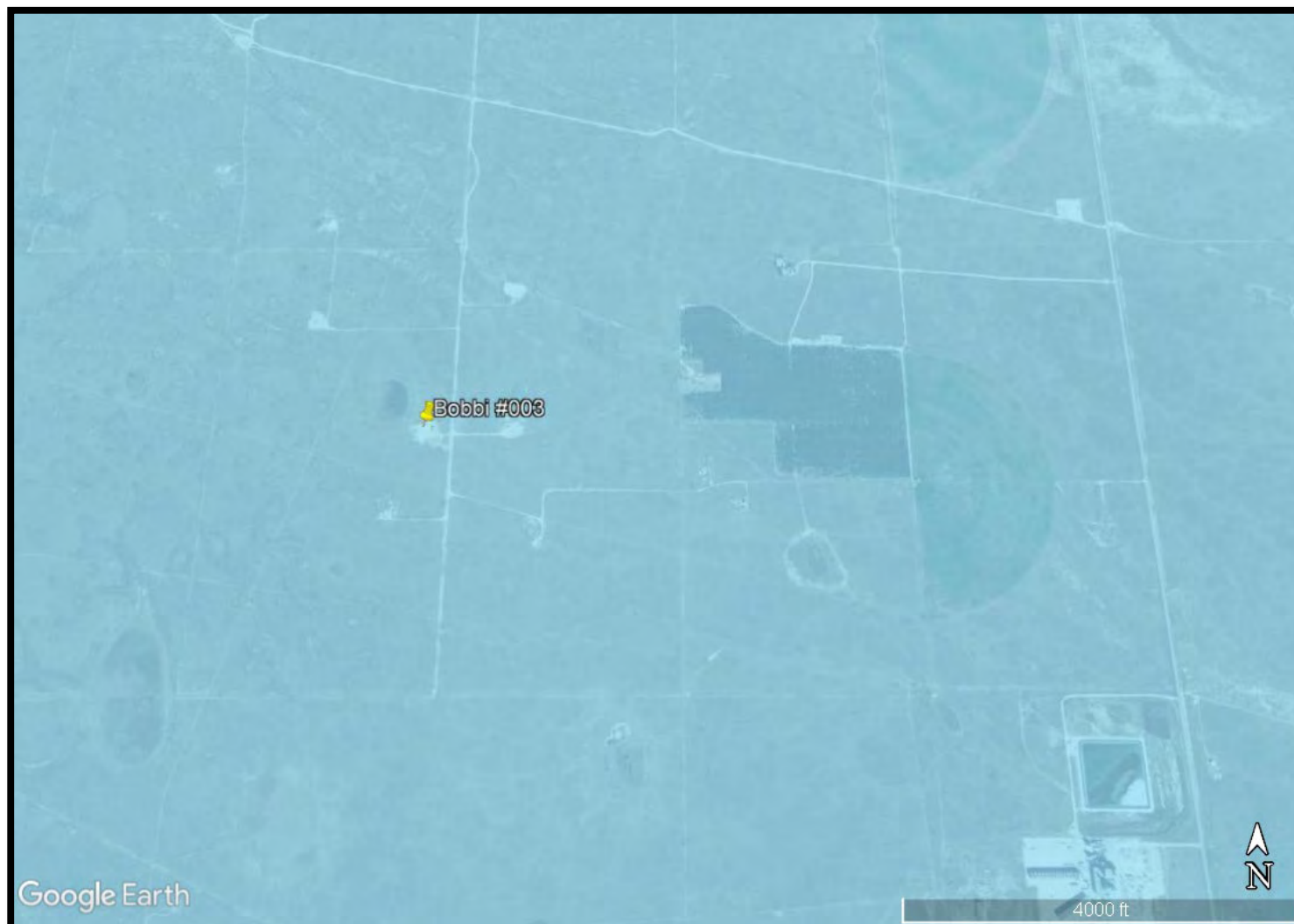
Drafted by: CC | Checked by: CC

Draft: June 15, 2021

GPS: 32.726683° -103.377463°



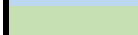


**LEGEND:**

Site Location



Low Karst Potential



Medium Karst Potential



High Karst Potential

Base Map from Google Earth and WHYMAP

**Figure 4**

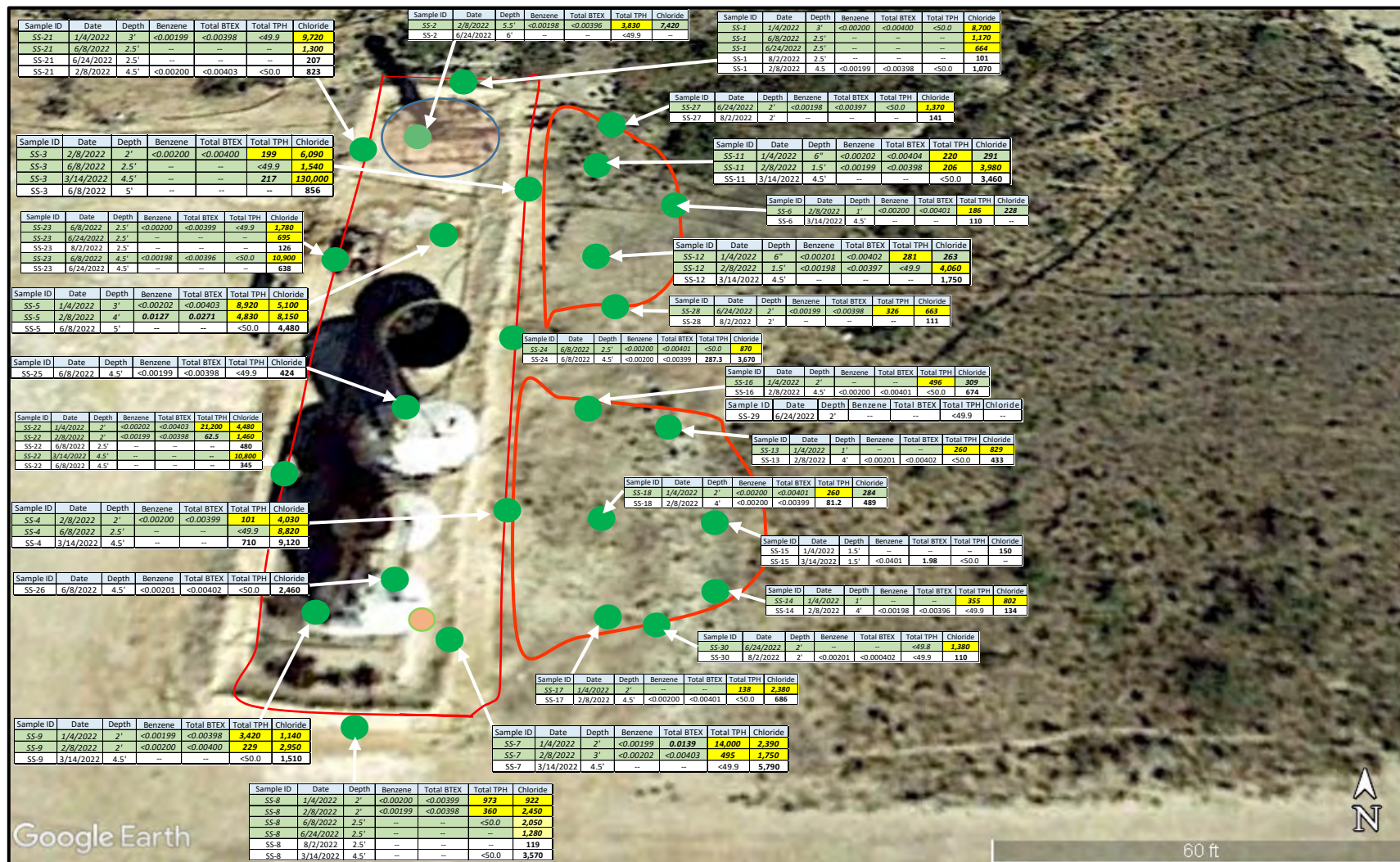
Karst Potential Map  
Sundown Energy, LP  
Bobbi State WF Unit #003  
Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: June 15, 2021

GPS: 32.726683° -103.377463°





## LEGEND:

- Excavation Boundary
- Excavation to 6' below ground surface
- Sample Location With Concentrations (mg/kg) below Closure Criteria.
- Release point

Figure 5  
Soil Sample Analytical Results Map  
Sundown Energy, LP  
Bobbi State WF Unit #003  
Lea County, New Mexico

Drafted by: CC | Checked by: CC

Draft: Sept. 8, 2022

GPS: 32.726683° -103.377463°

Base Map from Google Earth







---

## Appendix A: Release Notification (Form C-141)

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	nAPP2133730153
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	Sundown Energy, LP	OGRID	232611
Contact Name	Ralph Butler	Contact Telephone	(214) 368-6100 X 2102
Contact email	rbutler@elandenergy.com	Incident #	(assigned by OCD)
Contact mailing address	16400 Dallas Pkwy, Ste. 100, Dallas, TX 75248		

### Location of Release Source

Latitude 32.726683 Longitude -103.377463  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Bobbi State WF Unit #003	Site Type	Tank Battery
Date Release Discovered	11/28/21	API# (if applicable)	30-025-26954

Unit Letter	Section	Township	Range	County
N	20	18S	36E	Lea

Bill Squires

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: \_\_\_\_\_)

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 200	Volume Recovered (bbls) 185
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)


Cause of Release Valve failure on oil tank.

Incident ID	nAPP2133730153
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?  Volume of release is greater than 25 bbl.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Yes. By Cindy Crain to Eugene Bolton via phone call on 11/30/21 at 1300.	

## Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Cindy Crain</u>	Title: <u>Agent for Sundown Energy, LP</u>
Signature: <u></u>	Date: <u>11/30/21</u>
email: <u>cindy.crain@gmail.com</u>	Telephone: <u>(575) 441-7244</u>
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____

Incident ID	nAPP2133730153
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>59</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

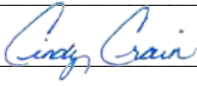
If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods,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

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	nAPP2133730153
District RP	
Facility ID	
Application ID	

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

Printed Name: Cindy Crain Title: Agent for Sundown Energy, LP  
Signature:  Date: 9/12/22  
email: cindy.crain@gmail.com Telephone: (575) 441-7244

**OCD Only**

Received by: Jocelyn Harimon Date: 09/12/2022

Incident ID	nAPP2133730153
District RP	
Facility ID	
Application ID	

## Remediation Plan

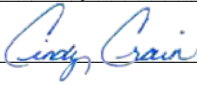
**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

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

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

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

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

Printed Name: Cindy Crain Title: Agent for Sundown Energy, LP  
Signature:  Date: 9/12/22  
email: cindy,crain@gmail.com Telephone: (575) 441-7244

**OCD Only**

Received by: Jocelyn Harimon Date: 09/12/2022

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

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

Incident ID	nAPP2133730153
District RP	
Facility ID	
Application ID	

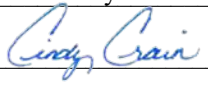
## Closure

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.

**Closure Report Attachment Checklist:** *Each of the following 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 of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities


I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Cindy Crain Title: Agent for Sundown Energy, LP  
Signature:  Date: 9/12/22  
email: cindy.crain@gmail.com Telephone: (575) 441-7244

**OCD Only**

Received by: Jocelyn Harimon Date: 09/12/2022

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

Closure Approved by:  Date: 09/14/2022  
Printed Name: Jennifer Nobui Title: Environmental Specialist A

**District I**

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

**District II**

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

**District III**

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

**District IV**

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

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

CONDITIONS

Action 66198

**CONDITIONS**

Operator: SUNDOWN ENERGY LP 16400 Dallas Pkwy Dallas, TX 75248	OGRID: 232611
	Action Number: 66198
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
rmarcus	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	12/13/2021





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## Appendix B: NMOCD Correspondence



Cindy Crain &lt;cindy.crain@gmail.com&gt;

**(Extension Denied) Sundown Energy, LLC - Bobbi State WF Unit #003 (Incident # aPP2133730153)**

4 messages

**Hamlet, Robert, EMNRD** <Robert.Hamlet@state.nm.us>

Wed, Apr 13, 2022 at 11:53 AM

To: Cindy Crain &lt;cindy.crain@gmail.com&gt;

Cc: "Bratcher, Mike, EMNRD" &lt;mike.bratcher@state.nm.us&gt;, "rbutler@elandenergy.com" &lt;rbutler@elandenergy.com&gt;, "Hensley, Chad, EMNRD" &lt;Chad.Hensley@state.nm.us&gt;, "Velez, Nelson, EMNRD" &lt;Nelson.Velez@state.nm.us&gt;, "Nobui, Jennifer, EMNRD" &lt;Jennifer.Nobui@state.nm.us&gt;

RE: Incident # **NAPP2133730153****Cindy,**

A remediation plan was due on 2/26/2022. Your request for extension is **denied**. Include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

811 S. First Street | Artesia, NM 88210

575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)<http://www.emnrd.state.nm.us/OCD/>**From:** Cindy Crain <cindy.crain@gmail.com>**Sent:** Tuesday, April 12, 2022 10:45 PM**To:** Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>**Cc:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>; [rbutler@elandenergy.com](mailto:rbutler@elandenergy.com)**Subject:** [EXTERNAL] Sundown Energy, LLC - Bobbi State WF Unit #003 (Incident # aPP2133730153) - Request for Extension

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

Dear OCD -

On November 28, 2021, 200 barrels (bbls) of crude oil were released from an oil tank at the Sundown Energy, LLC (Sundown) Bobbi State WF Unit #003 (Site). Approximately 185 bbls were recovered by vacuum truck. The release was verbally reported to the OCD on November 29, 2021, and the Initial C-141 (attached) was submitted via the Fee Portal on December 10, 2021.

Soil remediation has been underway since that time, in hopes that a Closure Report could be submitted within 90 days of the release. The most recent confirmation samples were collected on March 14, 2022. A summary table of laboratory results and a figure showing the sample locations and remaining concentrations are attached. As you can see on the attached table and figure, only 4 samples reported TPH and/or chloride concentrations above the Closure Criteria. As the Closure Report (with a request to defer remediation of areas within the tank battery until Time of Abandonment) was being prepared, Sundown elected to dismantle the tank battery.

Sundown respectfully requests a 180 day extension to allow time to dismantle the tank battery and remove equipment, complete soil remediation until all samples report concentrations below the Closure Criteria, and submit a Closure Report to the OCD.

Please let me know if you have any questions, need additional information, or approve the extension request.

Thank you,

Cindy Crain

--

**Crain Environmental**

**2925 East 17th Street**

**Odessa, TX 79761**

**(575) 441-7244**

---

**Hamlet, Robert, EMNRD** <Robert.Hamlet@state.nm.us>

Wed, Apr 13, 2022 at 12:10 PM

To: Cindy Crain <cindy.crain@gmail.com>

Cc: "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "rbutler@elandenergy.com" <rbutler@elandenergy.com>, "Hensley, Chad, EMNRD" <Chad.Hensley@state.nm.us>, "Velez, Nelson, EMNRD" <Nelson.Velez@state.nm.us>, "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@state.nm.us>

Cindy,

I just talked to Mike about this incident. Since Sundown Energy is willing to dismantling the battery and move the tanks, we are willing to work with them. Unfortunately we can't give you a 180 day extension, but we can give you a 90 day extension from today's date. I will go ahead and approve this extension until 7/13/2022.

9/8/22, 11:28 PM  
Regards,

**Robert Hamlet • Environmental Specialist - Advanced**

Environmental Bureau

EMNRD - Oil Conservation Division

811 S. First Street | Artesia, NM 88210

575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)

<http://www.emnrd.state.nm.us/OCD/>



[Quoted text hidden]

---

**Cindy Crain** <cindy.crain@gmail.com>

Wed, Apr 13, 2022 at 12:39 PM

To: "Hamlet, Robert, EMNRD" <Robert.Hamlet@state.nm.us>

Cc: "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "rbutler@elandenergy.com" <rbutler@elandenergy.com>, "Hensley, Chad, EMNRD" <Chad.Hensley@state.nm.us>, "Velez, Nelson, EMNRD" <Nelson.Velez@state.nm.us>, "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@state.nm.us>

Thank you, Robert -

Sundown will make every effort to have the tank battery dismantled in a time frame conducive to conducting final soil remediation and submittal of a Closure Report by the July 13, 2022 deadline. If any delays are encountered I will let you know.

Sincerely,  
Cindy Crain

[Quoted text hidden]

---

**Cindy Crain** <cindy.crain@gmail.com>

Thu, Jul 7, 2022 at 2:54 PM

To: "Hamlet, Robert, EMNRD" <Robert.Hamlet@state.nm.us>

Cc: "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "rbutler@elandenergy.com" <rbutler@elandenergy.com>, "Hensley, Chad, EMNRD" <Chad.Hensley@state.nm.us>, "Velez, Nelson, EMNRD" <Nelson.Velez@state.nm.us>, "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@state.nm.us>

Robert,

Remediation of the Bobbi State WF Unit #003 tank battery area has been underway since April 18, 2022.

Final lab results were received yesterday from samples collected on 6/24/22 and a copy of the report is attached. Also attached please find an updated summary table and a figure showing the sample locations and concentrations.

Since 6 of the samples (SS-1, SS-8, SS-23, SS-27, SS-28, and SS-30 [red dots on attached figure]) reported chloride concentrations above 600 mg/kg at a depth less than 4' bgs, the lab re-ran the chloride analysis on those samples. With the re-run, chloride concentrations in the 3 of the samples (SS-1, SS-8, and SS-23) were slightly reduced, but are still above the closure limit. The re-run results reported the same concentrations as originally in the remaining 3

samples (SS-27, SS-28, and SS-30). A copy of the preliminary report is also attached, and initial chloride results are shown in red on the last column of the attached table.

As remediation has not yet been completed, and a report is due to OCD on July 13, 2022, Sundown respectfully requests a 60-day extension to complete remediation and submit a Closure Report to the OCD. Every effort will be made to complete remediation and submit a Closure Report as soon as possible.

Please let me know if you have any questions, and if you approve the extension request.

Thank you,  
Cindy Crain

[Quoted text hidden]

---

#### 4 attachments



**6.24.22\_J16321-1 UDS Level 2 Report Final Report.pdf**  
906K



**6.24.22\_J16321-1 UDS Level 2 Report Prelim Report (1).pdf**  
857K



**Bobbi 003 Table 1\_6.24.22 Samples\_revised.pdf**  
210K



**Bobbi 003 Figures\_6.24.22 Samples\_revised.pdf**  
349K



Cindy Crain &lt;cindy.crain@gmail.com&gt;

**(Final Extension) Sundown Energy, LLC - Bobbi State WF Unit #003 (Incident # NAPP2133730153)**

3 messages

**Hamlet, Robert, EMNRD** <Robert.Hamlet@state.nm.us>

Thu, Jul 7, 2022 at 3:16 PM

To: Cindy Crain &lt;cindy.crain@gmail.com&gt;

Cc: "Bratcher, Mike, EMNRD" &lt;mike.bratcher@state.nm.us&gt;, "rbutler@elandenergy.com" &lt;rbutler@elandenergy.com&gt;, "Nobui, Jennifer, EMNRD" &lt;Jennifer.Nobui@state.nm.us&gt;, "Harimon, Jocelyn, EMNRD" &lt;Jocelyn.Harimon@state.nm.us&gt;

RE: Incident #NAPP2133730153

Cindy,

Your request for an extension to **August 13th, 2022** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced

Environmental Bureau

EMNRD - Oil Conservation Division

811 S. First Street | Artesia, NM 88210

575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)<http://www.emnrd.state.nm.us/OCD/>**From:** Cindy Crain <cindy.crain@gmail.com>**Sent:** Thursday, July 7, 2022 1:54 PM**To:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>**Cc:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; [rbutler@elandenergy.com](mailto:rbutler@elandenergy.com); Hensley, Chad, EMNRD <[Chad.Hensley@state.nm.us](mailto:Chad.Hensley@state.nm.us)>; Velez, Nelson, EMNRD <[Nelson.Velez@state.nm.us](mailto:Nelson.Velez@state.nm.us)>; Nobui, Jennifer, EMNRD <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)>**Subject:** [EXTERNAL] Re: (Extension Denied) Sundown Energy, LLC - Bobbi State WF Unit #003 (Incident # aPP2133730153)

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

Robert,

Remediation of the Bobbi State WF Unit #003 tank battery area has been underway since April 18, 2022.

Final lab results were received yesterday from samples collected on 6/24/22 and a copy of the report is attached. Also attached please find an updated summary table and a figure showing the sample locations and concentrations.

Since 6 of the samples (SS-1, SS-8, SS-23, SS-27, SS-28, and SS-30 [red dots on attached figure]) reported chloride concentrations above 600 mg/kg at a depth less than 4' bgs, the lab re-ran the chloride analysis on those samples. With the re-run, chloride concentrations in the 3 of the samples (SS-1, SS-8, and SS-23) were slightly reduced, but are still above the closure limit. The re-run results reported the same concentrations as originally in the remaining 3 samples (SS-27, SS-28, and SS-30). A copy of the preliminary report is also attached, and initial chloride results are shown in red on the last column of the attached table.

As remediation has not yet been completed, and a report is due to OCD on July 13, 2022, Sundown respectfully requests a 60-day extension to complete remediation and submit a Closure Report to the OCD. Every effort will be made to complete remediation and submit a Closure Report as soon as possible.

Please let me know if you have any questions, and if you approve the extension request.

Thank you,

Cindy Crain

On Wed, Apr 13, 2022 at 12:39 PM Cindy Crain <cindy.crain@gmail.com> wrote:

Thank you, Robert -

Sundown will make every effort to have the tank battery dismantled in a time frame conducive to conducting final soil remediation and submittal of a Closure Report by the July 13, 2022 deadline. If any delays are encountered I will let you know.

Sincerely,

Cindy Crain

On Wed, Apr 13, 2022 at 12:11 PM Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us> wrote:

Cindy,

I just talked to Mike about this incident. Since Sundown Energy is willing to dismantling the battery and move the tanks, we are willing to work with them. Unfortunately we can't give you a 180 day extension, but we can give you a 90 day extension from today's date. I will go ahead and approve this extension until 7/13/2022.

Regards,

**Robert Hamlet • Environmental Specialist - Advanced**

Environmental Bureau

EMNRD - Oil Conservation Division

811 S. First Street | Artesia, NM 88210

575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)

<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Hamlet, Robert, EMNRD

**Sent:** Wednesday, April 13, 2022 10:54 AM

**To:** Cindy Crain <[cindy.crain@gmail.com](mailto:cindy.crain@gmail.com)>

**Cc:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; [rbutler@elandenergy.com](mailto:rbutler@elandenergy.com); Hensley, Chad, EMNRD <[Chad.Hensley@state.nm.us](mailto:Chad.Hensley@state.nm.us)>; Velez, Nelson, EMNRD <[Nelson.Velez@state.nm.us](mailto:Nelson.Velez@state.nm.us)>; Nobui, Jennifer, EMNRD <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)>

**Subject:** (Extension Denied) Sundown Energy, LLC - Bobbi State WF Unit #003 (Incident # aPP2133730153)

RE: Incident #**NAPP2133730153**

Cindy,

A remediation plan was due on 2/26/2022. Your request for extension is **denied**. Include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet • Environmental Specialist - Advanced**

Environmental Bureau

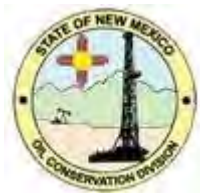


EMNRD - Oil Conservation Division

811 S. First Street | Artesia, NM 88210

575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)

<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Cindy Crain <[cindy.crain@gmail.com](mailto:cindy.crain@gmail.com)>

**Sent:** Tuesday, April 12, 2022 10:45 PM

**To:** Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>

**Cc:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>; [rbutler@elandenergy.com](mailto:rbutler@elandenergy.com)

**Subject:** [EXTERNAL] Sundown Energy, LLC - Bobbi State WF Unit #003 (Incident # aPP2133730153) - Request for Extension

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

Dear OCD -

On November 28, 2021, 200 barrels (bbls) of crude oil were released from an oil tank at the Sundown Energy, LLC (Sundown) Bobbi State WF Unit #003 (Site). Approximately 185 bbls were recovered by vacuum truck. The release was verbally reported to the OCD on November 29, 2021, and the Initial C-141 (attached) was submitted via the Fee Portal on December 10, 2021.

Soil remediation has been underway since that time, in hopes that a Closure Report could be submitted within 90 days of the release. The most recent confirmation samples were collected on March 14, 2022. A summary table of laboratory results and a figure showing the sample locations and remaining concentrations are attached. As you can see on the attached table and figure, only 4 samples reported TPH and/or chloride concentrations above the Closure Criteria. As the Closure Report (with a request to defer remediation of areas within the tank battery until Time of Abandonment) was being prepared, Sundown elected to dismantle the tank battery.

Sundown respectfully requests a 180 day extension to allow time to dismantle the tank battery and remove equipment, complete soil remediation until all samples report concentrations below the Closure Criteria, and submit a Closure Report to the OCD.

Please let me know if you have any questions, need additional information, or approve the extension request.

Thank you,

Cindy Crain

--

**Crain Environmental**

**2925 East 17th Street**

**Odessa, TX 79761**

**(575) 441-7244**

---

**Hamlet, Robert, EMNRD** <Robert.Hamlet@state.nm.us>

Thu, Jul 7, 2022 at 3:18 PM

To: Cindy Crain <cindy.crain@gmail.com>

Cc: "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "rbutler@elandenergy.com" <rbutler@elandenergy.com>, "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@state.nm.us>, "Harimon, Jocelyn, EMNRD" <Jocelyn.Harimon@state.nm.us>

Sorry, Extension to September 13<sup>th</sup>, 2022.

[Quoted text hidden]

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**Cindy Crain** <cindy.crain@gmail.com>

Thu, Jul 7, 2022 at 3:36 PM

To: "Hamlet, Robert, EMNRD" <Robert.Hamlet@state.nm.us>

Cc: "Bratcher, Mike, EMNRD" <mike.bratcher@state.nm.us>, "rbutler@elandenergy.com" <rbutler@elandenergy.com>, "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@state.nm.us>, "Harimon, Jocelyn, EMNRD" <Jocelyn.Harimon@state.nm.us>

Thank you, Robert!

Cindy Crain

[Quoted text hidden]



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## Appendix C: Laboratory Reports and Chain-of-Custody Documentation



Environment Testing  
America

## ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-9902-1

Laboratory Sample Delivery Group: Lea Co., NM  
Client Project/Site: Bobbi State WF Unit #3

For:

Crain Environmental  
2925 E. 17th St.  
Odessa, Texas 79761

Attn: Cindy Crain

Authorized for release by:  
1/13/2022 1:29:27 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Laboratory Job ID: 880-9902-1  
SDG: Lea Co., NM

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## Definitions/Glossary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



## Case Narrative

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

---

**Job ID: 880-9902-1**

---

**Laboratory: Eurofins Midland**

---

**Narrative**

---

**Job Narrative**  
**880-9902-1**

**Receipt**

The samples were received on 1/5/2022 3:16 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was -3.5°C

**GC VOA**

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

**GC Semi VOA**

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

**HPLC/IC**

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

## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

Client Sample ID: SS-1

Lab Sample ID: 880-9902-1

Date Collected: 01/04/22 14:30

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/22 07:32	01/06/22 13:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/22 07:32	01/06/22 13:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/22 07:32	01/06/22 13:19	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/06/22 07:32	01/06/22 13:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/22 07:32	01/06/22 13:19	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/06/22 07:32	01/06/22 13:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	01/06/22 07:32	01/06/22 13:19	1
1,4-Difluorobenzene (Surr)	100		70 - 130	01/06/22 07:32	01/06/22 13:19	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/05/22 16:34	01/06/22 17:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/05/22 16:34	01/06/22 17:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/05/22 16:34	01/06/22 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	01/05/22 16:34	01/06/22 17:19	1
o-Terphenyl	107		70 - 130	01/05/22 16:34	01/06/22 17:19	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8700		50.0		mg/Kg			01/13/22 11:33	10

Client Sample ID: SS-2

Lab Sample ID: 880-9902-2

Date Collected: 01/04/22 14:35

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 3.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00756		0.00200		mg/Kg		01/06/22 07:32	01/06/22 13:40	1
Toluene	0.117		0.00200		mg/Kg		01/06/22 07:32	01/06/22 13:40	1
Ethylbenzene	0.0555		0.00200		mg/Kg		01/06/22 07:32	01/06/22 13:40	1
m-Xylene & p-Xylene	0.112		0.00400		mg/Kg		01/06/22 07:32	01/06/22 13:40	1
o-Xylene	0.0424		0.00200		mg/Kg		01/06/22 07:32	01/06/22 13:40	1
Xylenes, Total	0.154		0.00400		mg/Kg		01/06/22 07:32	01/06/22 13:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	01/06/22 07:32	01/06/22 13:40	1

Eurofins Midland

## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

Client Sample ID: SS-2

Lab Sample ID: 880-9902-2

Date Collected: 01/04/22 14:35

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 3.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	01/06/22 07:32	01/06/22 13:40	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.334		0.00400		mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	8650		250		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	403		250		mg/Kg		01/05/22 16:34	01/06/22 17:39	5
Diesel Range Organics (Over C10-C28)	8250		250		mg/Kg		01/05/22 16:34	01/06/22 17:39	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		01/05/22 16:34	01/06/22 17:39	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				01/05/22 16:34	01/06/22 17:39	5
o-Terphenyl	118		70 - 130				01/05/22 16:34	01/06/22 17:39	5

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15100		100		mg/Kg			01/13/22 11:42	20

Client Sample ID: SS-5

Lab Sample ID: 880-9902-5

Date Collected: 01/04/22 14:50

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/06/22 07:32	01/06/22 14:00	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/06/22 07:32	01/06/22 14:00	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/06/22 07:32	01/06/22 14:00	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/06/22 07:32	01/06/22 14:00	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/06/22 07:32	01/06/22 14:00	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/06/22 07:32	01/06/22 14:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130	01/06/22 07:32	01/06/22 14:00	1
1,4-Difluorobenzene (Surr)	112		70 - 130	01/06/22 07:32	01/06/22 14:00	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	8920		250		mg/Kg			01/10/22 12:59	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

## Client Sample ID: SS-5

## Lab Sample ID: 880-9902-5

Date Collected: 01/04/22 14:50

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	434		250		mg/Kg		01/05/22 16:34	01/06/22 18:00	5
Diesel Range Organics (Over C10-C28)	8490		250		mg/Kg		01/05/22 16:34	01/06/22 18:00	5
OII Range Organics (Over C28-C36)	<250	U	250		mg/Kg		01/05/22 16:34	01/06/22 18:00	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				01/05/22 16:34	01/06/22 18:00	5
o-Terphenyl	117		70 - 130				01/05/22 16:34	01/06/22 18:00	5

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5100		25.0		mg/Kg			01/13/22 11:08	5

## Client Sample ID: SS-7

## Lab Sample ID: 880-9902-7

Date Collected: 01/04/22 15:00

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/06/22 07:32	01/06/22 14:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/06/22 07:32	01/06/22 14:20	1
Ethylbenzene	0.00401		0.00199		mg/Kg		01/06/22 07:32	01/06/22 14:20	1
m-Xylene & p-Xylene	0.00557		0.00398		mg/Kg		01/06/22 07:32	01/06/22 14:20	1
o-Xylene	0.00430		0.00199		mg/Kg		01/06/22 07:32	01/06/22 14:20	1
Xylenes, Total	0.00987		0.00398		mg/Kg		01/06/22 07:32	01/06/22 14:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				01/06/22 07:32	01/06/22 14:20	1
1,4-Difluorobenzene (Surr)	99		70 - 130				01/06/22 07:32	01/06/22 14:20	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0139		0.00398		mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	14000		250		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	291		250		mg/Kg		01/05/22 16:34	01/06/22 18:21	5
Diesel Range Organics (Over C10-C28)	13700		250		mg/Kg		01/05/22 16:34	01/06/22 18:21	5
OII Range Organics (Over C28-C36)	<250	U	250		mg/Kg		01/05/22 16:34	01/06/22 18:21	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130				01/05/22 16:34	01/06/22 18:21	5
o-Terphenyl	126		70 - 130				01/05/22 16:34	01/06/22 18:21	5

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

## Client Sample ID: SS-7

## Lab Sample ID: 880-9902-7

Date Collected: 01/04/22 15:00

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 2'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2390		24.8		mg/Kg			01/07/22 22:38	5

## Client Sample ID: SS-8

## Lab Sample ID: 880-9902-8

Date Collected: 01/04/22 15:05

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/22 07:32	01/06/22 15:43	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/22 07:32	01/06/22 15:43	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/22 07:32	01/06/22 15:43	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/06/22 07:32	01/06/22 15:43	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/22 07:32	01/06/22 15:43	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/06/22 07:32	01/06/22 15:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				01/06/22 07:32	01/06/22 15:43	1
1,4-Difluorobenzene (Surr)	111		70 - 130				01/06/22 07:32	01/06/22 15:43	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	973		50.0		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/05/22 16:34	01/06/22 18:42	1
Diesel Range Organics (Over C10-C28)	973		50.0		mg/Kg		01/05/22 16:34	01/06/22 18:42	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/05/22 16:34	01/06/22 18:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				01/05/22 16:34	01/06/22 18:42	1
o-Terphenyl	123		70 - 130				01/05/22 16:34	01/06/22 18:42	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	922		4.99		mg/Kg			01/07/22 23:02	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

Client Sample ID: SS-9

Lab Sample ID: 880-9902-9

Date Collected: 01/04/22 15:10

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/06/22 07:32	01/06/22 16:25	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/06/22 07:32	01/06/22 16:25	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/06/22 07:32	01/06/22 16:25	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/22 07:32	01/06/22 16:25	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/22 07:32	01/06/22 16:25	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/22 07:32	01/06/22 16:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	01/06/22 07:32	01/06/22 16:25	1
1,4-Difluorobenzene (Surr)	110		70 - 130	01/06/22 07:32	01/06/22 16:25	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3420		250		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<250	U	250		mg/Kg		01/05/22 16:34	01/06/22 19:03	5
Diesel Range Organics (Over C10-C28)	3420		250		mg/Kg		01/05/22 16:34	01/06/22 19:03	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		01/05/22 16:34	01/06/22 19:03	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	01/05/22 16:34	01/06/22 19:03	5
o-Terphenyl	119		70 - 130	01/05/22 16:34	01/06/22 19:03	5

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		5.00		mg/Kg			01/07/22 23:10	1

Client Sample ID: SS-11

Lab Sample ID: 880-9902-11

Date Collected: 01/04/22 15:25

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/06/22 07:32	01/06/22 16:45	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/06/22 07:32	01/06/22 16:45	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/06/22 07:32	01/06/22 16:45	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/06/22 07:32	01/06/22 16:45	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/06/22 07:32	01/06/22 16:45	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/06/22 07:32	01/06/22 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130	01/06/22 07:32	01/06/22 16:45	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

Client Sample ID: SS-11

Lab Sample ID: 880-9902-11

Date Collected: 01/04/22 15:25

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 6"

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	109		70 - 130	01/06/22 07:32	01/06/22 16:45	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	220		49.9		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/06/22 11:08	01/07/22 02:26	1
Diesel Range Organics (Over C10-C28)	220		49.9		mg/Kg		01/06/22 11:08	01/07/22 02:26	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/22 11:08	01/07/22 02:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130				01/06/22 11:08	01/07/22 02:26	1
o-Terphenyl	109		70 - 130				01/06/22 11:08	01/07/22 02:26	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	291		4.97		mg/Kg			01/07/22 23:17	1

Client Sample ID: SS-12

Lab Sample ID: 880-9902-12

Date Collected: 01/04/22 15:30

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/06/22 07:32	01/06/22 17:06	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/06/22 07:32	01/06/22 17:06	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/06/22 07:32	01/06/22 17:06	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/06/22 07:32	01/06/22 17:06	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/06/22 07:32	01/06/22 17:06	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/06/22 07:32	01/06/22 17:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	01/06/22 07:32	01/06/22 17:06	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/06/22 07:32	01/06/22 17:06	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	281		50.0		mg/Kg			01/10/22 12:40	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

Client Sample ID: SS-12

Lab Sample ID: 880-9902-12

Date Collected: 01/04/22 15:30

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 6"

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/06/22 11:08	01/07/22 13:43	1
<b>Diesel Range Organics (Over C10-C28)</b>	<b>281</b>		50.0		mg/Kg		01/06/22 11:08	01/07/22 13:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/22 11:08	01/07/22 13:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				01/06/22 11:08	01/07/22 13:43	1
o-Terphenyl	109		70 - 130				01/06/22 11:08	01/07/22 13:43	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>263</b>		5.05		mg/Kg			01/07/22 23:25	1

Client Sample ID: SS-13

Lab Sample ID: 880-9902-13

Date Collected: 01/04/22 15:35

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total TPH</b>	<b>260</b>		49.9		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/06/22 11:08	01/07/22 00:41	1
<b>Diesel Range Organics (Over C10-C28)</b>	<b>260</b>		49.9		mg/Kg		01/06/22 11:08	01/07/22 00:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/22 11:08	01/07/22 00:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				01/06/22 11:08	01/07/22 00:41	1
o-Terphenyl	108		70 - 130				01/06/22 11:08	01/07/22 00:41	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>829</b>		4.98		mg/Kg			01/07/22 23:49	1

Client Sample ID: SS-14

Lab Sample ID: 880-9902-14

Date Collected: 01/04/22 15:40

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total TPH</b>	<b>355</b>		49.9		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/06/22 11:08	01/07/22 01:23	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

Client Sample ID: SS-14

Lab Sample ID: 880-9902-14

Date Collected: 01/04/22 15:40

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	355		49.9		mg/Kg		01/06/22 11:08	01/07/22 01:23	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/22 11:08	01/07/22 01:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				01/06/22 11:08	01/07/22 01:23	1
o-Terphenyl	118		70 - 130				01/06/22 11:08	01/07/22 01:23	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	802		4.95		mg/Kg			01/07/22 23:57	1

Client Sample ID: SS-15

Lab Sample ID: 880-9902-15

Date Collected: 01/04/22 15:55

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 1'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		4.95		mg/Kg			01/08/22 00:04	1

Client Sample ID: SS-16

Lab Sample ID: 880-9902-16

Date Collected: 01/04/22 16:00

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	496		50.0		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/06/22 11:08	01/07/22 01:44	1
Diesel Range Organics (Over C10-C28)	496		50.0		mg/Kg		01/06/22 11:08	01/07/22 01:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/22 11:08	01/07/22 01:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130				01/06/22 11:08	01/07/22 01:44	1
o-Terphenyl	115		70 - 130				01/06/22 11:08	01/07/22 01:44	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	309		5.00		mg/Kg			01/08/22 00:12	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

Client Sample ID: SS-17

Lab Sample ID: 880-9902-17

Date Collected: 01/04/22 16:05

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	138		50.0		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/06/22 11:08	01/07/22 00:20	1
Diesel Range Organics (Over C10-C28)	138		50.0		mg/Kg		01/06/22 11:08	01/07/22 00:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/22 11:08	01/07/22 00:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130				01/06/22 11:08	01/07/22 00:20	1
o-Terphenyl	130		70 - 130				01/06/22 11:08	01/07/22 00:20	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2380		24.8		mg/Kg			01/08/22 00:20	5

Client Sample ID: SS-18

Lab Sample ID: 880-9902-18

Date Collected: 01/04/22 16:10

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/22 07:32	01/06/22 17:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/22 07:32	01/06/22 17:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/22 07:32	01/06/22 17:26	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		01/06/22 07:32	01/06/22 17:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/22 07:32	01/06/22 17:26	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		01/06/22 07:32	01/06/22 17:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				01/06/22 07:32	01/06/22 17:26	1
1,4-Difluorobenzene (Surr)	103		70 - 130				01/06/22 07:32	01/06/22 17:26	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	260		50.0		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/06/22 11:08	01/07/22 02:05	1
Diesel Range Organics (Over C10-C28)	260		50.0		mg/Kg		01/06/22 11:08	01/07/22 02:05	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/22 11:08	01/07/22 02:05	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

Client Sample ID: SS-18

Lab Sample ID: 880-9902-18

Date Collected: 01/04/22 16:10

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 2'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	01/06/22 11:08	01/07/22 02:05	1
o-Terphenyl	106		70 - 130	01/06/22 11:08	01/07/22 02:05	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	284		5.04		mg/Kg			01/08/22 00:28	1

Client Sample ID: SS-21

Lab Sample ID: 880-9902-21

Date Collected: 01/04/22 16:30

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/06/22 07:32	01/06/22 17:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/06/22 07:32	01/06/22 17:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/06/22 07:32	01/06/22 17:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/06/22 07:32	01/06/22 17:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/06/22 07:32	01/06/22 17:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/06/22 07:32	01/06/22 17:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	01/06/22 07:32	01/06/22 17:47	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/06/22 07:32	01/06/22 17:47	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/06/22 11:08	01/06/22 20:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/06/22 11:08	01/06/22 20:49	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/06/22 11:08	01/06/22 20:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	01/06/22 11:08	01/06/22 20:49	1
o-Terphenyl	123		70 - 130	01/06/22 11:08	01/06/22 20:49	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9720		49.7		mg/Kg			01/08/22 00:52	10

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

Client Sample ID: SS-22

Lab Sample ID: 880-9902-22

Date Collected: 01/04/22 16:35

Matrix: Solid

Date Received: 01/05/22 15:16

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/06/22 07:32	01/06/22 18:07	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/06/22 07:32	01/06/22 18:07	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/06/22 07:32	01/06/22 18:07	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/06/22 07:32	01/06/22 18:07	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/06/22 07:32	01/06/22 18:07	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/06/22 07:32	01/06/22 18:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	01/06/22 07:32	01/06/22 18:07	1
1,4-Difluorobenzene (Surr)	80		70 - 130	01/06/22 07:32	01/06/22 18:07	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/07/22 08:36	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	21200		500		mg/Kg			01/10/22 12:40	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	2050		500		mg/Kg		01/06/22 11:08	01/07/22 02:48	10
Diesel Range Organics (Over C10-C28)	19100		500		mg/Kg		01/06/22 11:08	01/07/22 02:48	10
Oil Range Organics (Over C28-C36)	<500	U	500		mg/Kg		01/06/22 11:08	01/07/22 02:48	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	01/06/22 11:08	01/07/22 02:48	10
o-Terphenyl	116		70 - 130	01/06/22 11:08	01/07/22 02:48	10

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4480		24.8		mg/Kg			01/08/22 00:59	5

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## Surrogate Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-9902-1	SS-1	117	100				
880-9902-2	SS-2	122	105				
880-9902-5	SS-5	137 S1+	112				
880-9902-7	SS-7	116	99				
880-9902-8	SS-8	107	111				
880-9902-9	SS-9	100	110				
880-9902-11	SS-11	138 S1+	109				
880-9902-12	SS-12	121	104				
880-9902-18	SS-18	125	103				
880-9902-21	SS-21	118	102				
880-9902-22	SS-22	122	80				
LCS 880-16112/1-A	Lab Control Sample	120	121				
LCSD 880-16112/2-A	Lab Control Sample Dup	128	119				
MB 880-16112/5-A	Method Blank	127	130				
<b>Surrogate Legend</b>							
BFB = 4-Bromofluorobenzene (Surr)							
DFBZ = 1,4-Difluorobenzene (Surr)							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO1	OTPH1				
		(70-130)	(70-130)				
880-9902-1	SS-1	107	107				
880-9902-2	SS-2	94	118				
880-9902-5	SS-5	116	117				
880-9902-7	SS-7	106	126				
880-9902-8	SS-8	113	123				
880-9902-9	SS-9	89	119				
880-9902-11	SS-11	104	109				
880-9902-12	SS-12	110	109				
880-9902-13	SS-13	105	108				
880-9902-14	SS-14	108	118				
880-9902-16	SS-16	111	115				
880-9902-17	SS-17	126	130				
880-9902-18	SS-18	101	106				
880-9902-21	SS-21	121	123				
880-9902-21 MS	SS-21	108	113				
880-9902-21 MSD	SS-21	94	88				
880-9902-22	SS-22	88	116				
<b>Surrogate Legend</b>							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

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## Surrogate Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

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

**Matrix: Solid**

**Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-16102/2-A	Lab Control Sample	102	108
LCS 880-16124/2-A	Lab Control Sample	100	103
LCSD 880-16102/3-A	Lab Control Sample Dup	108	111
LCSD 880-16124/3-A	Lab Control Sample Dup	103	104
MB 880-16102/1-A	Method Blank	108	114
MB 880-16124/1-A	Method Blank	110	114
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

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

Lab Sample ID: MB 880-16112/5-A

Matrix: Solid

Analysis Batch: 16113

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16112

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/06/22 07:32	01/06/22 10:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/06/22 07:32	01/06/22 10:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/06/22 07:32	01/06/22 10:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/06/22 07:32	01/06/22 10:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/06/22 07:32	01/06/22 10:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/06/22 07:32	01/06/22 10:55	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	01/06/22 07:32	01/06/22 10:55	1
1,4-Difluorobenzene (Surr)	130		70 - 130	01/06/22 07:32	01/06/22 10:55	1

Lab Sample ID: LCS 880-16112/1-A

Matrix: Solid

Analysis Batch: 16113

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16112

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07566		mg/Kg		76	70 - 130
Toluene	0.100	0.07089		mg/Kg		71	70 - 130
Ethylbenzene	0.100	0.07448		mg/Kg		74	70 - 130
m-Xylene & p-Xylene	0.200	0.1541		mg/Kg		77	70 - 130
o-Xylene	0.100	0.07771		mg/Kg		78	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	121		70 - 130

Lab Sample ID: LCSD 880-16112/2-A

Matrix: Solid

Analysis Batch: 16113

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16112

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08642		mg/Kg		86	70 - 130	13	35
Toluene	0.100	0.08292		mg/Kg		83	70 - 130	16	35
Ethylbenzene	0.100	0.07393		mg/Kg		74	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1777		mg/Kg		89	70 - 130	14	35
o-Xylene	0.100	0.07809		mg/Kg		78	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	128		70 - 130
1,4-Difluorobenzene (Surr)	119		70 - 130

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

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

Lab Sample ID: MB 880-16102/1-A

Matrix: Solid

Analysis Batch: 16116

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16102

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/05/22 16:34	01/06/22 10:03	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/05/22 16:34	01/06/22 10:03	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/05/22 16:34	01/06/22 10:03	1
Surrogate	%Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				01/05/22 16:34	01/06/22 10:03	1
o-Terphenyl	114		70 - 130				01/05/22 16:34	01/06/22 10:03	1

Lab Sample ID: LCS 880-16102/2-A

Matrix: Solid

Analysis Batch: 16116

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16102

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	968.7		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1021		mg/Kg		102	70 - 130
Surrogate	%Recovery	LCS Qualifier	Limits				
1-Chlorooctane	102		70 - 130				
o-Terphenyl	108		70 - 130				

Lab Sample ID: LCSD 880-16102/3-A

Matrix: Solid

Analysis Batch: 16116

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16102

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	945.6		mg/Kg		95	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	1000	998.5		mg/Kg		100	70 - 130	2	20
Surrogate	%Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	111		70 - 130						

Lab Sample ID: MB 880-16124/1-A

Matrix: Solid

Analysis Batch: 16116

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16124

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/06/22 11:08	01/06/22 19:45	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/06/22 11:08	01/06/22 19:45	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/06/22 11:08	01/06/22 19:45	1

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

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

Lab Sample ID: MB 880-16124/1-A

Matrix: Solid

Analysis Batch: 16116

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 16124

	MB	MB								
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil	Fac			
1-Chlorooctane	110		70 - 130	01/06/22 11:08	01/06/22 19:45	1				
o-Terphenyl	114		70 - 130	01/06/22 11:08	01/06/22 19:45	1				

Lab Sample ID: LCS 880-16124/2-A

Matrix: Solid

Analysis Batch: 16116

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 16124

			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	920.2		mg/Kg		92	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	977.5		mg/Kg		98	70 - 130		

	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	100		70 - 130								
o-Terphenyl	103		70 - 130								

Lab Sample ID: LCSD 880-16124/3-A

Matrix: Solid

Analysis Batch: 16116

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 16124

			Spike	LCSD	LCSD				%Rec.		RPD	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10			1000	927.2		mg/Kg		93	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)			1000	973.5		mg/Kg		97	70 - 130	0	20	

	LCSD	LCSD										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	103		70 - 130									
o-Terphenyl	104		70 - 130									

Lab Sample ID: 880-9902-21 MS

Matrix: Solid

Analysis Batch: 16116

Client Sample ID: SS-21

Prep Type: Total/NA

Prep Batch: 16124

	Sample	Sample	Spike	MS	MS				%Rec.			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1251		mg/Kg		126	70 - 130			
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1278		mg/Kg		126	70 - 130			

	MS	MS										
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	108		70 - 130									
o-Terphenyl	113		70 - 130									

Eurofins Midland

## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

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

Lab Sample ID: 880-9902-21 MSD

Matrix: Solid

Analysis Batch: 16116

Client Sample ID: SS-21

Prep Type: Total/NA

Prep Batch: 16124

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	1053		mg/Kg		105	70 - 130	17	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1114		mg/Kg		110	70 - 130	14	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	94		70 - 130								
o-Terphenyl	88		70 - 130								

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-16128/1-A

Matrix: Solid

Analysis Batch: 16259

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/12/22 10:45	1

Lab Sample ID: LCS 880-16128/2-A

Matrix: Solid

Analysis Batch: 16259

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	250	263.8		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-16128/3-A

Matrix: Solid

Analysis Batch: 16259

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	273.3		mg/Kg		109	90 - 110	4	20

Lab Sample ID: MB 880-16236/1-A

Matrix: Solid

Analysis Batch: 16334

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/07/22 22:15	1

Lab Sample ID: LCS 880-16236/2-A

Matrix: Solid

Analysis Batch: 16334

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	250	244.6		mg/Kg		98	90 - 110		

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-16236/3-A

Matrix: Solid

Analysis Batch: 16334

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	246.3		mg/Kg		99	90 - 110	1	20

Lab Sample ID: 880-9902-7 MS

Matrix: Solid

Analysis Batch: 16334

Client Sample ID: SS-7

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2390		1240	3544		mg/Kg		93	90 - 110		

Lab Sample ID: 880-9902-7 MSD

Matrix: Solid

Analysis Batch: 16334

Client Sample ID: SS-7

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	2390		1240	3513		mg/Kg		91	90 - 110	1	20

Lab Sample ID: 880-9902-18 MS

Matrix: Solid

Analysis Batch: 16334

Client Sample ID: SS-18

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	284		252	523.3		mg/Kg		95	90 - 110		

Lab Sample ID: 880-9902-18 MSD

Matrix: Solid

Analysis Batch: 16334

Client Sample ID: SS-18

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	284		252	513.6		mg/Kg		91	90 - 110	2	20

## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

## GC VOA

## Prep Batch: 16112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9902-1	SS-1	Total/NA	Solid	5035	
880-9902-2	SS-2	Total/NA	Solid	5035	
880-9902-5	SS-5	Total/NA	Solid	5035	
880-9902-7	SS-7	Total/NA	Solid	5035	
880-9902-8	SS-8	Total/NA	Solid	5035	
880-9902-9	SS-9	Total/NA	Solid	5035	
880-9902-11	SS-11	Total/NA	Solid	5035	
880-9902-12	SS-12	Total/NA	Solid	5035	
880-9902-18	SS-18	Total/NA	Solid	5035	
880-9902-21	SS-21	Total/NA	Solid	5035	
880-9902-22	SS-22	Total/NA	Solid	5035	
MB 880-16112/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-16112/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-16112/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 16113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9902-1	SS-1	Total/NA	Solid	8021B	16112
880-9902-2	SS-2	Total/NA	Solid	8021B	16112
880-9902-5	SS-5	Total/NA	Solid	8021B	16112
880-9902-7	SS-7	Total/NA	Solid	8021B	16112
880-9902-8	SS-8	Total/NA	Solid	8021B	16112
880-9902-9	SS-9	Total/NA	Solid	8021B	16112
880-9902-11	SS-11	Total/NA	Solid	8021B	16112
880-9902-12	SS-12	Total/NA	Solid	8021B	16112
880-9902-18	SS-18	Total/NA	Solid	8021B	16112
880-9902-21	SS-21	Total/NA	Solid	8021B	16112
880-9902-22	SS-22	Total/NA	Solid	8021B	16112
MB 880-16112/5-A	Method Blank	Total/NA	Solid	8021B	16112
LCS 880-16112/1-A	Lab Control Sample	Total/NA	Solid	8021B	16112
LCSD 880-16112/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	16112

## Analysis Batch: 16206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9902-1	SS-1	Total/NA	Solid	Total BTEX	
880-9902-2	SS-2	Total/NA	Solid	Total BTEX	
880-9902-5	SS-5	Total/NA	Solid	Total BTEX	
880-9902-7	SS-7	Total/NA	Solid	Total BTEX	
880-9902-8	SS-8	Total/NA	Solid	Total BTEX	
880-9902-9	SS-9	Total/NA	Solid	Total BTEX	
880-9902-11	SS-11	Total/NA	Solid	Total BTEX	
880-9902-12	SS-12	Total/NA	Solid	Total BTEX	
880-9902-18	SS-18	Total/NA	Solid	Total BTEX	
880-9902-21	SS-21	Total/NA	Solid	Total BTEX	
880-9902-22	SS-22	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 16102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9902-1	SS-1	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

## GC Semi VOA (Continued)

## Prep Batch: 16102 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9902-2	SS-2	Total/NA	Solid	8015NM Prep	
880-9902-5	SS-5	Total/NA	Solid	8015NM Prep	
880-9902-7	SS-7	Total/NA	Solid	8015NM Prep	
880-9902-8	SS-8	Total/NA	Solid	8015NM Prep	
880-9902-9	SS-9	Total/NA	Solid	8015NM Prep	
MB 880-16102/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16102/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16102/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 16116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9902-1	SS-1	Total/NA	Solid	8015B NM	16102
880-9902-2	SS-2	Total/NA	Solid	8015B NM	16102
880-9902-5	SS-5	Total/NA	Solid	8015B NM	16102
880-9902-7	SS-7	Total/NA	Solid	8015B NM	16102
880-9902-8	SS-8	Total/NA	Solid	8015B NM	16102
880-9902-9	SS-9	Total/NA	Solid	8015B NM	16102
880-9902-11	SS-11	Total/NA	Solid	8015B NM	16124
880-9902-12	SS-12	Total/NA	Solid	8015B NM	16124
880-9902-13	SS-13	Total/NA	Solid	8015B NM	16124
880-9902-14	SS-14	Total/NA	Solid	8015B NM	16124
880-9902-16	SS-16	Total/NA	Solid	8015B NM	16124
880-9902-17	SS-17	Total/NA	Solid	8015B NM	16124
880-9902-18	SS-18	Total/NA	Solid	8015B NM	16124
880-9902-21	SS-21	Total/NA	Solid	8015B NM	16124
880-9902-22	SS-22	Total/NA	Solid	8015B NM	16124
MB 880-16102/1-A	Method Blank	Total/NA	Solid	8015B NM	16102
MB 880-16124/1-A	Method Blank	Total/NA	Solid	8015B NM	16124
LCS 880-16102/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16102
LCS 880-16124/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	16124
LCSD 880-16102/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16102
LCSD 880-16124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	16124
880-9902-21 MS	SS-21	Total/NA	Solid	8015B NM	16124
880-9902-21 MSD	SS-21	Total/NA	Solid	8015B NM	16124

## Prep Batch: 16124

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9902-11	SS-11	Total/NA	Solid	8015NM Prep	
880-9902-12	SS-12	Total/NA	Solid	8015NM Prep	
880-9902-13	SS-13	Total/NA	Solid	8015NM Prep	
880-9902-14	SS-14	Total/NA	Solid	8015NM Prep	
880-9902-16	SS-16	Total/NA	Solid	8015NM Prep	
880-9902-17	SS-17	Total/NA	Solid	8015NM Prep	
880-9902-18	SS-18	Total/NA	Solid	8015NM Prep	
880-9902-21	SS-21	Total/NA	Solid	8015NM Prep	
880-9902-22	SS-22	Total/NA	Solid	8015NM Prep	
MB 880-16124/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-16124/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-16124/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9902-21 MS	SS-21	Total/NA	Solid	8015NM Prep	
880-9902-21 MSD	SS-21	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

## GC Semi VOA

## Analysis Batch: 16428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9902-1	SS-1	Total/NA	Solid	8015 NM	
880-9902-2	SS-2	Total/NA	Solid	8015 NM	
880-9902-5	SS-5	Total/NA	Solid	8015 NM	
880-9902-7	SS-7	Total/NA	Solid	8015 NM	
880-9902-8	SS-8	Total/NA	Solid	8015 NM	
880-9902-9	SS-9	Total/NA	Solid	8015 NM	
880-9902-11	SS-11	Total/NA	Solid	8015 NM	
880-9902-12	SS-12	Total/NA	Solid	8015 NM	
880-9902-13	SS-13	Total/NA	Solid	8015 NM	
880-9902-14	SS-14	Total/NA	Solid	8015 NM	
880-9902-16	SS-16	Total/NA	Solid	8015 NM	
880-9902-17	SS-17	Total/NA	Solid	8015 NM	
880-9902-18	SS-18	Total/NA	Solid	8015 NM	
880-9902-21	SS-21	Total/NA	Solid	8015 NM	
880-9902-22	SS-22	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 16128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9902-1	SS-1	Soluble	Solid	DI Leach	
880-9902-2	SS-2	Soluble	Solid	DI Leach	
880-9902-5	SS-5	Soluble	Solid	DI Leach	
MB 880-16128/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16128/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16128/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

## Leach Batch: 16236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9902-7	SS-7	Soluble	Solid	DI Leach	
880-9902-8	SS-8	Soluble	Solid	DI Leach	
880-9902-9	SS-9	Soluble	Solid	DI Leach	
880-9902-11	SS-11	Soluble	Solid	DI Leach	
880-9902-12	SS-12	Soluble	Solid	DI Leach	
880-9902-13	SS-13	Soluble	Solid	DI Leach	
880-9902-14	SS-14	Soluble	Solid	DI Leach	
880-9902-15	SS-15	Soluble	Solid	DI Leach	
880-9902-16	SS-16	Soluble	Solid	DI Leach	
880-9902-17	SS-17	Soluble	Solid	DI Leach	
880-9902-18	SS-18	Soluble	Solid	DI Leach	
880-9902-21	SS-21	Soluble	Solid	DI Leach	
880-9902-22	SS-22	Soluble	Solid	DI Leach	
MB 880-16236/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-16236/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-16236/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9902-7 MS	SS-7	Soluble	Solid	DI Leach	
880-9902-7 MSD	SS-7	Soluble	Solid	DI Leach	
880-9902-18 MS	SS-18	Soluble	Solid	DI Leach	
880-9902-18 MSD	SS-18	Soluble	Solid	DI Leach	

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## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

## HPLC/IC

## Analysis Batch: 16259

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9902-1	SS-1	Soluble	Solid	300.0	16128
880-9902-2	SS-2	Soluble	Solid	300.0	16128
880-9902-5	SS-5	Soluble	Solid	300.0	16128
MB 880-16128/1-A	Method Blank	Soluble	Solid	300.0	16128
LCS 880-16128/2-A	Lab Control Sample	Soluble	Solid	300.0	16128
LCSD 880-16128/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16128

## Analysis Batch: 16334

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9902-7	SS-7	Soluble	Solid	300.0	16236
880-9902-8	SS-8	Soluble	Solid	300.0	16236
880-9902-9	SS-9	Soluble	Solid	300.0	16236
880-9902-11	SS-11	Soluble	Solid	300.0	16236
880-9902-12	SS-12	Soluble	Solid	300.0	16236
880-9902-13	SS-13	Soluble	Solid	300.0	16236
880-9902-14	SS-14	Soluble	Solid	300.0	16236
880-9902-15	SS-15	Soluble	Solid	300.0	16236
880-9902-16	SS-16	Soluble	Solid	300.0	16236
880-9902-17	SS-17	Soluble	Solid	300.0	16236
880-9902-18	SS-18	Soluble	Solid	300.0	16236
880-9902-21	SS-21	Soluble	Solid	300.0	16236
880-9902-22	SS-22	Soluble	Solid	300.0	16236
MB 880-16236/1-A	Method Blank	Soluble	Solid	300.0	16236
LCS 880-16236/2-A	Lab Control Sample	Soluble	Solid	300.0	16236
LCSD 880-16236/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	16236
880-9902-7 MS	SS-7	Soluble	Solid	300.0	16236
880-9902-7 MSD	SS-7	Soluble	Solid	300.0	16236
880-9902-18 MS	SS-18	Soluble	Solid	300.0	16236
880-9902-18 MSD	SS-18	Soluble	Solid	300.0	16236

## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

Client Sample ID: SS-1

Lab Sample ID: 880-9902-1

Date Collected: 01/04/22 14:30

Matrix: Solid

Date Received: 01/05/22 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	16112	01/06/22 07:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/06/22 13:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16102	01/05/22 16:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/06/22 17:19	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16128	01/06/22 11:46	CH	XEN MID
Soluble	Analysis	300.0		10			16259	01/13/22 11:33	CH	XEN MID

Client Sample ID: SS-2

Lab Sample ID: 880-9902-2

Date Collected: 01/04/22 14:35

Matrix: Solid

Date Received: 01/05/22 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	16112	01/06/22 07:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/06/22 13:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16102	01/05/22 16:34	DM	XEN MID
Total/NA	Analysis	8015B NM		5			16116	01/06/22 17:39	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16128	01/06/22 11:46	CH	XEN MID
Soluble	Analysis	300.0		20			16259	01/13/22 11:42	CH	XEN MID

Client Sample ID: SS-5

Lab Sample ID: 880-9902-5

Date Collected: 01/04/22 14:50

Matrix: Solid

Date Received: 01/05/22 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	16112	01/06/22 07:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/06/22 14:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:59	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16102	01/05/22 16:34	DM	XEN MID
Total/NA	Analysis	8015B NM		5			16116	01/06/22 18:00	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16128	01/06/22 11:46	CH	XEN MID
Soluble	Analysis	300.0		5			16259	01/13/22 11:08	CH	XEN MID

Client Sample ID: SS-7

Lab Sample ID: 880-9902-7

Date Collected: 01/04/22 15:00

Matrix: Solid

Date Received: 01/05/22 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	16112	01/06/22 07:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/06/22 14:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID

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## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

## Client Sample ID: SS-7

## Lab Sample ID: 880-9902-7

Date Collected: 01/04/22 15:00

Matrix: Solid

Date Received: 01/05/22 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16102	01/05/22 16:34	DM	XEN MID
Total/NA	Analysis	8015B NM		5			16116	01/06/22 18:21	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16236	01/07/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		5			16334	01/07/22 22:38	CH	XEN MID

## Client Sample ID: SS-8

## Lab Sample ID: 880-9902-8

Date Collected: 01/04/22 15:05

Matrix: Solid

Date Received: 01/05/22 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	16112	01/06/22 07:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/06/22 15:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16102	01/05/22 16:34	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/06/22 18:42	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	16236	01/07/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			16334	01/07/22 23:02	CH	XEN MID

## Client Sample ID: SS-9

## Lab Sample ID: 880-9902-9

Date Collected: 01/04/22 15:10

Matrix: Solid

Date Received: 01/05/22 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16112	01/06/22 07:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/06/22 16:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16102	01/05/22 16:34	DM	XEN MID
Total/NA	Analysis	8015B NM		5			16116	01/06/22 19:03	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16236	01/07/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			16334	01/07/22 23:10	CH	XEN MID

## Client Sample ID: SS-11

## Lab Sample ID: 880-9902-11

Date Collected: 01/04/22 15:25

Matrix: Solid

Date Received: 01/05/22 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	16112	01/06/22 07:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/06/22 16:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16124	01/06/22 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/07/22 02:26	AJ	XEN MID

Eurofins Midland



## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

## Client Sample ID: SS-11

## Lab Sample ID: 880-9902-11

Date Collected: 01/04/22 15:25

Matrix: Solid

Date Received: 01/05/22 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	16236	01/07/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			16334	01/07/22 23:17	CH	XEN MID

## Client Sample ID: SS-12

## Lab Sample ID: 880-9902-12

Date Collected: 01/04/22 15:30

Matrix: Solid

Date Received: 01/05/22 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	16112	01/06/22 07:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/06/22 17:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16124	01/06/22 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/07/22 13:43	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	16236	01/07/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			16334	01/07/22 23:25	CH	XEN MID

## Client Sample ID: SS-13

## Lab Sample ID: 880-9902-13

Date Collected: 01/04/22 15:35

Matrix: Solid

Date Received: 01/05/22 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	16124	01/06/22 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/07/22 00:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	16236	01/07/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			16334	01/07/22 23:49	CH	XEN MID

## Client Sample ID: SS-14

## Lab Sample ID: 880-9902-14

Date Collected: 01/04/22 15:40

Matrix: Solid

Date Received: 01/05/22 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16124	01/06/22 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/07/22 01:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16236	01/07/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			16334	01/07/22 23:57	CH	XEN MID

Eurofins Midland

## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

## Client Sample ID: SS-15

## Lab Sample ID: 880-9902-15

Date Collected: 01/04/22 15:55

Matrix: Solid

Date Received: 01/05/22 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	16236	01/07/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			16334	01/08/22 00:04	CH	XEN MID

## Client Sample ID: SS-16

## Lab Sample ID: 880-9902-16

Date Collected: 01/04/22 16:00

Matrix: Solid

Date Received: 01/05/22 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	16124	01/06/22 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/07/22 01:44	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	16236	01/07/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			16334	01/08/22 00:12	CH	XEN MID

## Client Sample ID: SS-17

## Lab Sample ID: 880-9902-17

Date Collected: 01/04/22 16:05

Matrix: Solid

Date Received: 01/05/22 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16124	01/06/22 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/07/22 00:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	16236	01/07/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		5			16334	01/08/22 00:20	CH	XEN MID

## Client Sample ID: SS-18

## Lab Sample ID: 880-9902-18

Date Collected: 01/04/22 16:10

Matrix: Solid

Date Received: 01/05/22 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	16112	01/06/22 07:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/06/22 17:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16124	01/06/22 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/07/22 02:05	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	16236	01/07/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		1			16334	01/08/22 00:28	CH	XEN MID

Eurofins Midland

## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

Client Sample ID: SS-21

Lab Sample ID: 880-9902-21

Date Collected: 01/04/22 16:30

Matrix: Solid

Date Received: 01/05/22 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	16112	01/06/22 07:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/06/22 17:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	16124	01/06/22 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		1			16116	01/06/22 20:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	16236	01/07/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		10			16334	01/08/22 00:52	CH	XEN MID

Client Sample ID: SS-22

Lab Sample ID: 880-9902-22

Date Collected: 01/04/22 16:35

Matrix: Solid

Date Received: 01/05/22 15:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	16112	01/06/22 07:32	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	16113	01/06/22 18:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16206	01/07/22 08:36	KL	XEN MID
Total/NA	Analysis	8015 NM		1			16428	01/10/22 12:40	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	16124	01/06/22 11:08	DM	XEN MID
Total/NA	Analysis	8015B NM		10			16116	01/07/22 02:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	16236	01/07/22 10:23	CH	XEN MID
Soluble	Analysis	300.0		5			16334	01/08/22 00:59	CH	XEN MID

## Laboratory References:

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

Accreditation/Certification Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

1
2
3
4
5
6
7
8
9
10
11
12
13
14

## Method Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

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

**Protocol References:**

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

Eurofins Midland

## Sample Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-9902-1  
SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-9902-1	SS-1	Solid	01/04/22 14:30	01/05/22 15:16	3'
880-9902-2	SS-2	Solid	01/04/22 14:35	01/05/22 15:16	3.5'
880-9902-5	SS-5	Solid	01/04/22 14:50	01/05/22 15:16	3'
880-9902-7	SS-7	Solid	01/04/22 15:00	01/05/22 15:16	2'
880-9902-8	SS-8	Solid	01/04/22 15:05	01/05/22 15:16	2'
880-9902-9	SS-9	Solid	01/04/22 15:10	01/05/22 15:16	2'
880-9902-11	SS-11	Solid	01/04/22 15:25	01/05/22 15:16	6"
880-9902-12	SS-12	Solid	01/04/22 15:30	01/05/22 15:16	6"
880-9902-13	SS-13	Solid	01/04/22 15:35	01/05/22 15:16	1'
880-9902-14	SS-14	Solid	01/04/22 15:40	01/05/22 15:16	1'
880-9902-15	SS-15	Solid	01/04/22 15:55	01/05/22 15:16	1'
880-9902-16	SS-16	Solid	01/04/22 16:00	01/05/22 15:16	2'
880-9902-17	SS-17	Solid	01/04/22 16:05	01/05/22 15:16	2'
880-9902-18	SS-18	Solid	01/04/22 16:10	01/05/22 15:16	2'
880-9902-21	SS-21	Solid	01/04/22 16:30	01/05/22 15:16	3'
880-9902-22	SS-22	Solid	01/04/22 16:35	01/05/22 15:16	2'



Environment Testing  
Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 986-3199

Chain of Custody



880-9902 Chain of Custody

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Project Manager	Lindy Crain	Bill to (if different)	Elad / Sureborn
Company Name	Crain Environmental	Company Name	Ralph Butler
Address	2835 E. 17th St.	Address	11400 Dallas Hwy, Sp100
City State ZIP	Odesa, TX 79761	City State ZIP	Dallas, TX 75248
Phone	(575) 441-7344	Email	Lindy.Crain@gmail.com

Program:	UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	NM
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables	EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other <input type="checkbox"/>

Project Name	Bobbi State WF Unit #3	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST												Preservative Codes		
Project Number	-	Due Date																None NO	DI Water H <sub>2</sub> O	
Project Location	Lea Co, NM	TAI starts the day received by the lab, if received by 4:30pm																Cool Cool	MeOH Me	
Sampler's Name	Lindy Crain	Thermometer ID																HCL, HC	HNO <sub>3</sub> HN	
PO #		Wet Ice																H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub>	NaOH Na	
SAMPLE RECEIPT		Temp Blank	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>															H <sub>3</sub> PO <sub>4</sub> HP		
Samples Received Intact	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID																NaHSO <sub>4</sub> NABIS		
Cooler Custody Seals	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor																Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NASO <sub>3</sub>		
Sample Custody Seals	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading																Zn Acetate+NaOH Zn		
Total Containers		Corrected Temperature																NaOH+Ascorbic Acid SAPC		
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Cont	# of Cont													Sample Comments	
SS-1	S	1/4/22	1430	3'	C	1	TPH 8015M												202	
SS-2			1435	3.5'			BTX Chlorides													
SS-3			1440	4'			Chlorides													
SS-4			1445	4.5'																
SS-5			1450	3'																
SS-6			1455	2'																
SS-7			1500	2'																
SS-8			1505	2'																
SS-9			1510	2'																
SS-10			1515	1.5'																

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM	Texas 11	Al Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SO <sub>2</sub>	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U						Hg	1631	1245	17470	17471		

Note: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
Lindy Crain	Elad / Sureborn	1-5-22 1516			





## Environment Testing

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300  
Midland TX (432) 704-5440 San Antonio, TX (210) 509-3334  
El Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199

## Chain of Custody

Work Order No: 9962

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Project Manager	Lindy Train	Bill to (if different)	Ralph Butler
Company Name	Lynn Environmental	Company Name	Eland / Sundown
Address	2925 E. 17th St.	Address	14400 Dallas Hwy, Ste 100
City, State ZIP	Mesa, TX 79701	City, State ZIP	Dallas, TX 75248
Phone	(575) 441-7344	Email	Lindy.Train@earthlink.net

Work Order Comments				
Program:	UST/PST <input type="checkbox"/>	PRP <input type="checkbox"/>	Brownfields <input type="checkbox"/>	RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	N/A			
Reporting Level II	<input type="checkbox"/>	Level III	<input type="checkbox"/>	PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables	EDD <input type="checkbox"/>	Adapt	<input type="checkbox"/>	Other

Project Information				Turn Around		ANALYSIS REQUEST										Preservative Codes	
Project Name	Project Number	Project Location	Sampler's Name	Due Date	Pres. Code												
Babi Spot NE Unit #3	-	Lea La MH	Lady Train	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush													
TAT starts the day received by the lab if received by 4:30pm																	
SAMPLE RECEIPT				Temp Blank	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters							
Samples Received Intact				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													
Cooler Custody Seals				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor												
Sample Custody Seals				Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading												
Total Containers:					Corrected Temperature												
Sample Identification				Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont								
SS-11		S	1/4/22	1525	6"	C	1			TPH 8015M							
SS-12				1530	6"					BTEX							
SS-13				1535	1'					Chlorides							
SS-14				1540	1'												
SS-15				1555	1'												
SS-16				1600	2'												
SS-17				1605	2'												
SS-18				1610	2'												
SS-19				1615	2.5'												
SS-20				1620	2'												
Sample Comments										None NO Cool Cool HCL:HC H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> H <sub>3</sub> PO <sub>4</sub> HP NaHSO <sub>4</sub> NABIS Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub> Zn Acetate+NaOH Zn NaOH+Ascorbic Acid SAPC							
HOLD										DI Water- H <sub>2</sub> O							
HOLD										MeOH Me HNO <sub>3</sub> HN NaOH Na							

of Eurofins Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated with Eurofins Xeno. An amount charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated with Eurofins Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated with Eurofins Xeno.

Total 2000.7 / 6010	2008 / 6020:	8BCRA 13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TC1P / SPLP 6010	8BCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg 1631 / 2451 / 7470 / 7471	
<p>Notes: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.</p>					
Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	15-22-15	2		
3			4		
5			6		



## Environment Testing

Houston, TX (281) 240-4200, Dallas TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392 7550 Carlsbad NM (575) 988-3199

## Chain of Custody

Work Order No: 9902

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Project Manager	Lindy Crain	Bill to (if different)	Ralph Butler
Company Name	Crain Environmental	Company Name	Elanco / Sureborn
Address	2925 E. 19th St.	Address	11400 Dallas Hwy, Ste. 100
City State ZIP	OK 554, TX 79761	City State ZIP	Dallas, TX 75248
Phone	(575) 441-7844	Email	Lindy.Crain@gmail.com

Work Order Comments				
Program:	UST/PST <input type="checkbox"/>	PRP <input type="checkbox"/>	Brownfields <input type="checkbox"/>	RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	N/A			
Reporting	Level II <input type="checkbox"/>	Level III <input type="checkbox"/>	PST/UST <input type="checkbox"/>	TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables	EDD <input type="checkbox"/>	ADAPT <input type="checkbox"/>	Other:	

[illegible]

Total 2007 / 6010	2008 / 6020:	8RCRA	13PPM	Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO <sub>2</sub>	Na	Sr	Tl	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		TCPLP	SP/LP	6010	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U				Hg	1631	/ 245	1 / 7470	/ 7471			

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenico. Its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenico will be liable only for the costs of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenico. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenico, but not analyzed. These terms will be enforced unless previously negotiated.

## Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-9902-1

SDG Number: Lea Co., NM

Login Number: 9902

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



Environment Testing  
America

## ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-11100-1

Laboratory Sample Delivery Group: Lea Co., NM  
Client Project/Site: Bobbi State WF Unit #3

For:

Crain Environmental  
2925 E. 17th St.  
Odessa, Texas 79761

Attn: Cindy Crain

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
2/17/2022 1:55:30 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Laboratory Job ID: 880-11100-1  
SDG: Lea Co., NM

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## Definitions/Glossary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Case Narrative

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

**Job ID: 880-11100-1**

**Laboratory: Eurofins Midland**

**Narrative**

**Job Narrative  
880-11100-1**

**Receipt**

The samples were received on 2/9/2022 3:35 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.9°C

**GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-18969 and analytical batch 880-19027 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

**GC Semi VOA**

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-19009 and analytical batch 880-18981 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: SS-2 (880-11100-2), SS-6 (880-11100-6), SS-14 (880-11100-13), SS-16 (880-11100-14), (880-11100-A-1-E MS) and (880-11100-A-1-F MSD). Evidence of matrix interferences is not obvious.

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The method reporting limit check (MRL) for preparation batch 880-19061 and analytical batch 880-19410 recovered outside control limits for the following analytes: <AffectedAnalytes>. These analytes were biased high in the MRL and were not detected in the associated samples; therefore, the data have been reported.

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



## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

Client Sample ID: SS-1

Lab Sample ID: 880-11100-1

Date Collected: 02/08/22 13:45

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U F2 F1	0.00199		mg/Kg		02/10/22 08:36	02/11/22 06:50	1
Toluene	<0.00199	U F2 F1	0.00199		mg/Kg		02/10/22 08:36	02/11/22 06:50	1
Ethylbenzene	<0.00199	U F2 F1	0.00199		mg/Kg		02/10/22 08:36	02/11/22 06:50	1
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.00398		mg/Kg		02/10/22 08:36	02/11/22 06:50	1
o-Xylene	<0.00199	U F1	0.00199		mg/Kg		02/10/22 08:36	02/11/22 06:50	1
Xylenes, Total	<0.00398	U F2 F1	0.00398		mg/Kg		02/10/22 08:36	02/11/22 06:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	02/10/22 08:36	02/11/22 06:50	1
1,4-Difluorobenzene (Surr)	94		70 - 130	02/10/22 08:36	02/11/22 06:50	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/14/22 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/11/22 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 13:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U F1	50.0		mg/Kg		02/10/22 09:33	02/10/22 13:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 13:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130	02/10/22 09:33	02/10/22 13:09	1
o-Terphenyl	74		70 - 130	02/10/22 09:33	02/10/22 13:09	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		4.97		mg/Kg			02/15/22 01:05	1

Client Sample ID: SS-2

Lab Sample ID: 880-11100-2

Date Collected: 02/08/22 13:50

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 5.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/10/22 08:36	02/11/22 07:17	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/10/22 08:36	02/11/22 07:17	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/10/22 08:36	02/11/22 07:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/10/22 08:36	02/11/22 07:17	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/10/22 08:36	02/11/22 07:17	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/10/22 08:36	02/11/22 07:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	02/10/22 08:36	02/11/22 07:17	1

Eurofins Midland

## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

Client Sample ID: SS-2

Lab Sample ID: 880-11100-2

Date Collected: 02/08/22 13:50

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 5.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91		70 - 130	02/10/22 08:36	02/11/22 07:17	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/14/22 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3830		49.9		mg/Kg			02/11/22 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 14:13	1
Diesel Range Organics (Over C10-C28)	3830		49.9		mg/Kg		02/10/22 09:33	02/10/22 14:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 14:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	30	S1-	70 - 130				02/10/22 09:33	02/10/22 14:13	1
o-Terphenyl	51	S1-	70 - 130				02/10/22 09:33	02/10/22 14:13	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7420		24.8		mg/Kg			02/15/22 01:14	5

Client Sample ID: SS-3

Lab Sample ID: 880-11100-3

Date Collected: 02/08/22 13:55

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 07:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 07:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 07:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/22 08:36	02/11/22 07:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 07:45	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/22 08:36	02/11/22 07:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	02/10/22 08:36	02/11/22 07:45	1
1,4-Difluorobenzene (Surr)	98		70 - 130	02/10/22 08:36	02/11/22 07:45	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/14/22 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	199		50.0		mg/Kg			02/11/22 13:02	1

Eurofins Midland

## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

## Client Sample ID: SS-3

## Lab Sample ID: 880-11100-3

Date Collected: 02/08/22 13:55

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 14:33	1
Diesel Range Organics (Over C10-C28)	199		50.0		mg/Kg		02/10/22 09:33	02/10/22 14:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 14:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				02/10/22 09:33	02/10/22 14:33	1
o-Terphenyl	72		70 - 130				02/10/22 09:33	02/10/22 14:33	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6090		50.4		mg/Kg			02/15/22 01:24	10

## Client Sample ID: SS-4

## Lab Sample ID: 880-11100-4

Date Collected: 02/08/22 14:00

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 08:33	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 08:33	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 08:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/10/22 08:36	02/11/22 08:33	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 08:33	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/10/22 08:36	02/11/22 08:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130				02/10/22 08:36	02/11/22 08:33	1
1,4-Difluorobenzene (Surr)	127		70 - 130				02/10/22 08:36	02/11/22 08:33	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/14/22 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	101		49.9		mg/Kg			02/11/22 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 14:53	1
Diesel Range Organics (Over C10-C28)	101		49.9		mg/Kg		02/10/22 09:33	02/10/22 14:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 14:53	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	70		70 - 130				02/10/22 09:33	02/10/22 14:53	1
o-Terphenyl	72		70 - 130				02/10/22 09:33	02/10/22 14:53	1

Eurofins Midland

## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

## Client Sample ID: SS-4

Lab Sample ID: 880-11100-4

Date Collected: 02/08/22 14:00

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 2'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4030		24.9		mg/Kg			02/15/22 01:52	5

## Client Sample ID: SS-5

Lab Sample ID: 880-11100-5

Date Collected: 02/08/22 14:05

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0127		0.00202		mg/Kg		02/10/22 08:36	02/11/22 09:00	1
Toluene	0.00242		0.00202		mg/Kg		02/10/22 08:36	02/11/22 09:00	1
Ethylbenzene	0.00251		0.00202		mg/Kg		02/10/22 08:36	02/11/22 09:00	1
m-Xylene & p-Xylene	0.00567		0.00404		mg/Kg		02/10/22 08:36	02/11/22 09:00	1
o-Xylene	0.00375		0.00202		mg/Kg		02/10/22 08:36	02/11/22 09:00	1
Xylenes, Total	0.00942		0.00404		mg/Kg		02/10/22 08:36	02/11/22 09:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130				02/10/22 08:36	02/11/22 09:00	1
1,4-Difluorobenzene (Surr)	91		70 - 130				02/10/22 08:36	02/11/22 09:00	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0271		0.00404		mg/Kg			02/14/22 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4830		49.9		mg/Kg			02/11/22 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 15:14	1
Diesel Range Organics (Over C10-C28)	4830		49.9		mg/Kg		02/10/22 09:33	02/10/22 15:14	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 15:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130				02/10/22 09:33	02/10/22 15:14	1
o-Terphenyl	73		70 - 130				02/10/22 09:33	02/10/22 15:14	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8150		49.9		mg/Kg			02/15/22 02:02	10

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

Client Sample ID: SS-6

Lab Sample ID: 880-11100-6

Date Collected: 02/08/22 14:10

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 1'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 09:28	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 09:28	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 09:28	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/10/22 08:36	02/11/22 09:28	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 09:28	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/10/22 08:36	02/11/22 09:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	02/10/22 08:36	02/11/22 09:28	1
1,4-Difluorobenzene (Surr)	105		70 - 130	02/10/22 08:36	02/11/22 09:28	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/14/22 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	186		49.9		mg/Kg			02/11/22 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 15:34	1
Diesel Range Organics (Over C10-C28)	186		49.9		mg/Kg		02/10/22 09:33	02/10/22 15:34	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 15:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130	02/10/22 09:33	02/10/22 15:34	1
o-Terphenyl	67	S1-	70 - 130	02/10/22 09:33	02/10/22 15:34	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	228		4.98		mg/Kg			02/15/22 02:11	1

Client Sample ID: SS-7

Lab Sample ID: 880-11100-7

Date Collected: 02/08/22 14:15

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 3'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		02/10/22 08:36	02/11/22 09:56	1
Toluene	<0.00202	U	0.00202		mg/Kg		02/10/22 08:36	02/11/22 09:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		02/10/22 08:36	02/11/22 09:56	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		02/10/22 08:36	02/11/22 09:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		02/10/22 08:36	02/11/22 09:56	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		02/10/22 08:36	02/11/22 09:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	02/10/22 08:36	02/11/22 09:56	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

Client Sample ID: SS-7

Lab Sample ID: 880-11100-7

Date Collected: 02/08/22 14:15

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 3'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	113		70 - 130	02/10/22 08:36	02/11/22 09:56	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			02/14/22 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	495		50.0		mg/Kg			02/11/22 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 15:55	1
Diesel Range Organics (Over C10-C28)	495		50.0		mg/Kg		02/10/22 09:33	02/10/22 15:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 15:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130				02/10/22 09:33	02/10/22 15:55	1
o-Terphenyl	75		70 - 130				02/10/22 09:33	02/10/22 15:55	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1750		25.0		mg/Kg			02/15/22 02:21	5

Client Sample ID: SS-8

Lab Sample ID: 880-11100-8

Date Collected: 02/08/22 14:20

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/10/22 08:36	02/11/22 10:23	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/10/22 08:36	02/11/22 10:23	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/10/22 08:36	02/11/22 10:23	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/10/22 08:36	02/11/22 10:23	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/10/22 08:36	02/11/22 10:23	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/10/22 08:36	02/11/22 10:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	02/10/22 08:36	02/11/22 10:23	1
1,4-Difluorobenzene (Surr)	102		70 - 130	02/10/22 08:36	02/11/22 10:23	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/14/22 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	360		50.0		mg/Kg			02/11/22 13:02	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

Client Sample ID: SS-8

Lab Sample ID: 880-11100-8

Date Collected: 02/08/22 14:20

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 16:15	1
<b>Diesel Range Organics (Over C10-C28)</b>	<b>360</b>		50.0		mg/Kg		02/10/22 09:33	02/10/22 16:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 16:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130				02/10/22 09:33	02/10/22 16:15	1
o-Terphenyl	71		70 - 130				02/10/22 09:33	02/10/22 16:15	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>2450</b>		25.0		mg/Kg			02/15/22 02:30	5

Client Sample ID: SS-9

Lab Sample ID: 880-11100-9

Date Collected: 02/08/22 14:25

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 10:51	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 10:51	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 10:51	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/22 08:36	02/11/22 10:51	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 10:51	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/22 08:36	02/11/22 10:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130				02/10/22 08:36	02/11/22 10:51	1
1,4-Difluorobenzene (Surr)	87		70 - 130				02/10/22 08:36	02/11/22 10:51	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/14/22 08:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total TPH</b>	<b>229</b>		49.9		mg/Kg			02/11/22 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 16:35	1
<b>Diesel Range Organics (Over C10-C28)</b>	<b>229</b>		49.9		mg/Kg		02/10/22 09:33	02/10/22 16:35	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 16:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				02/10/22 09:33	02/10/22 16:35	1
o-Terphenyl	74		70 - 130				02/10/22 09:33	02/10/22 16:35	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

## Client Sample ID: SS-9

Lab Sample ID: 880-11100-9

Date Collected: 02/08/22 14:25

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 2'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2950	F1	24.8		mg/Kg			02/15/22 02:40	5

## Client Sample ID: SS-11

Lab Sample ID: 880-11100-10

Date Collected: 02/08/22 14:30

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/11/22 16:00	02/12/22 14:18	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/22 16:00	02/12/22 14:18	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/22 16:00	02/12/22 14:18	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/22 16:00	02/12/22 14:18	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/22 16:00	02/12/22 14:18	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/22 16:00	02/12/22 14:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				02/11/22 16:00	02/12/22 14:18	1
1,4-Difluorobenzene (Surr)	79		70 - 130				02/11/22 16:00	02/12/22 14:18	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	206		50.0		mg/Kg			02/11/22 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 16:56	1
Diesel Range Organics (Over C10-C28)	206		50.0		mg/Kg		02/10/22 09:33	02/10/22 16:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 16:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				02/10/22 09:33	02/10/22 16:56	1
o-Terphenyl	71		70 - 130				02/10/22 09:33	02/10/22 16:56	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3980		24.9		mg/Kg			02/15/22 17:57	5

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

Client Sample ID: SS-12

Lab Sample ID: 880-11100-11

Date Collected: 02/08/22 14:35

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/11/22 16:00	02/12/22 14:38	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/11/22 16:00	02/12/22 14:38	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/11/22 16:00	02/12/22 14:38	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		02/11/22 16:00	02/12/22 14:38	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/11/22 16:00	02/12/22 14:38	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		02/11/22 16:00	02/12/22 14:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	02/11/22 16:00	02/12/22 14:38	1
1,4-Difluorobenzene (Surr)	100		70 - 130	02/11/22 16:00	02/12/22 14:38	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/11/22 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 17:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 17:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130	02/10/22 09:33	02/10/22 17:36	1
o-Terphenyl	70		70 - 130	02/10/22 09:33	02/10/22 17:36	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4060		24.8		mg/Kg			02/15/22 18:24	5

Client Sample ID: SS-13

Lab Sample ID: 880-11100-12

Date Collected: 02/08/22 14:40

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		02/11/22 16:00	02/12/22 14:59	1
Toluene	<0.00201	U	0.00201		mg/Kg		02/11/22 16:00	02/12/22 14:59	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		02/11/22 16:00	02/12/22 14:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		02/11/22 16:00	02/12/22 14:59	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		02/11/22 16:00	02/12/22 14:59	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		02/11/22 16:00	02/12/22 14:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	02/11/22 16:00	02/12/22 14:59	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

Client Sample ID: SS-13

Lab Sample ID: 880-11100-12

Date Collected: 02/08/22 14:40

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 4'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	02/11/22 16:00	02/12/22 14:59	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/11/22 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 17:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 17:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 17:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				02/10/22 09:33	02/10/22 17:57	1
o-Terphenyl	77		70 - 130				02/10/22 09:33	02/10/22 17:57	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	433		5.01		mg/Kg			02/15/22 18:33	1

Client Sample ID: SS-14

Lab Sample ID: 880-11100-13

Date Collected: 02/08/22 14:45

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		02/11/22 16:00	02/12/22 15:19	1
Toluene	<0.00198	U	0.00198		mg/Kg		02/11/22 16:00	02/12/22 15:19	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		02/11/22 16:00	02/12/22 15:19	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		02/11/22 16:00	02/12/22 15:19	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		02/11/22 16:00	02/12/22 15:19	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		02/11/22 16:00	02/12/22 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	02/11/22 16:00	02/12/22 15:19	1
1,4-Difluorobenzene (Surr)	107		70 - 130	02/11/22 16:00	02/12/22 15:19	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/11/22 13:02	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

Client Sample ID: SS-14

Lab Sample ID: 880-11100-13

Date Collected: 02/08/22 14:45

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 18:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 18:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 18:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	69	S1-	70 - 130				02/10/22 09:33	02/10/22 18:18	1
o-Terphenyl	69	S1-	70 - 130				02/10/22 09:33	02/10/22 18:18	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	134		4.98		mg/Kg			02/15/22 18:42	1

Client Sample ID: SS-16

Lab Sample ID: 880-11100-14

Date Collected: 02/08/22 14:50

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 15:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 15:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 15:40	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/11/22 16:00	02/12/22 15:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 15:40	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/11/22 16:00	02/12/22 15:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				02/11/22 16:00	02/12/22 15:40	1
1,4-Difluorobenzene (Surr)	72		70 - 130				02/11/22 16:00	02/12/22 15:40	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/11/22 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 18:39	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 18:39	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 18:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130				02/10/22 09:33	02/10/22 18:39	1
o-Terphenyl	73		70 - 130				02/10/22 09:33	02/10/22 18:39	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

## Client Sample ID: SS-16

## Lab Sample ID: 880-11100-14

Date Collected: 02/08/22 14:50

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 4.5'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	674		4.95		mg/Kg			02/15/22 18:51	1

## Client Sample ID: SS-17

## Lab Sample ID: 880-11100-15

Date Collected: 02/08/22 14:55

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 16:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 16:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 16:00	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		02/11/22 16:00	02/12/22 16:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 16:00	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		02/11/22 16:00	02/12/22 16:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				02/11/22 16:00	02/12/22 16:00	1
1,4-Difluorobenzene (Surr)	111		70 - 130				02/11/22 16:00	02/12/22 16:00	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/11/22 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 19:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 19:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130				02/10/22 09:33	02/10/22 19:00	1
o-Terphenyl	88		70 - 130				02/10/22 09:33	02/10/22 19:00	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	686		4.99		mg/Kg			02/15/22 19:17	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

Client Sample ID: SS-18

Lab Sample ID: 880-11100-16

Date Collected: 02/08/22 15:00

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 4'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 16:21	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 16:21	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 16:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		02/11/22 16:00	02/12/22 16:21	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 16:21	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		02/11/22 16:00	02/12/22 16:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	02/11/22 16:00	02/12/22 16:21	1
1,4-Difluorobenzene (Surr)	94		70 - 130	02/11/22 16:00	02/12/22 16:21	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	81.2		49.9		mg/Kg			02/11/22 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 19:21	1
Diesel Range Organics (Over C10-C28)	81.2		49.9		mg/Kg		02/10/22 09:33	02/10/22 19:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 19:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	02/10/22 09:33	02/10/22 19:21	1
o-Terphenyl	87		70 - 130	02/10/22 09:33	02/10/22 19:21	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	489		5.01		mg/Kg			02/15/22 19:26	1

Client Sample ID: SS-21

Lab Sample ID: 880-11100-17

Date Collected: 02/08/22 15:05

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 16:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 16:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 16:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/11/22 16:00	02/12/22 16:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 16:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/11/22 16:00	02/12/22 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130	02/11/22 16:00	02/12/22 16:41	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

Client Sample ID: SS-21

Lab Sample ID: 880-11100-17

Date Collected: 02/08/22 15:05

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 4.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	02/11/22 16:00	02/12/22 16:41	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/11/22 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 19:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 19:43	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 19:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				02/10/22 09:33	02/10/22 19:43	1
o-Terphenyl	70		70 - 130				02/10/22 09:33	02/10/22 19:43	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	823		4.97		mg/Kg			02/15/22 19:35	1

Client Sample ID: SS-22

Lab Sample ID: 880-11100-18

Date Collected: 02/08/22 15:10

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		02/11/22 16:00	02/12/22 17:02	1
Toluene	<0.00199	U	0.00199		mg/Kg		02/11/22 16:00	02/12/22 17:02	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		02/11/22 16:00	02/12/22 17:02	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		02/11/22 16:00	02/12/22 17:02	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		02/11/22 16:00	02/12/22 17:02	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		02/11/22 16:00	02/12/22 17:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	02/11/22 16:00	02/12/22 17:02	1
1,4-Difluorobenzene (Surr)	78		70 - 130	02/11/22 16:00	02/12/22 17:02	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/14/22 09:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.5		49.9		mg/Kg			02/11/22 13:02	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

Client Sample ID: SS-22

Lab Sample ID: 880-11100-18

Date Collected: 02/08/22 15:10

Matrix: Solid

Date Received: 02/09/22 15:35

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 20:05	1
<b>Diesel Range Organics (Over C10-C28)</b>	<b>62.5</b>		49.9		mg/Kg		02/10/22 09:33	02/10/22 20:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		02/10/22 09:33	02/10/22 20:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130				02/10/22 09:33	02/10/22 20:05	1
o-Terphenyl	83		70 - 130				02/10/22 09:33	02/10/22 20:05	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1460</b>		4.95		mg/Kg			02/15/22 19:44	1

## Surrogate Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		BFB1 (70-130)	DFBZ1 (70-130)
880-11100-1	SS-1	98	94
880-11100-1 MS	SS-1	96	114
880-11100-1 MSD	SS-1	77	92
880-11100-2	SS-2	92	91
880-11100-3	SS-3	108	98
880-11100-4	SS-4	87	127
880-11100-5	SS-5	110	91
880-11100-6	SS-6	125	105
880-11100-7	SS-7	115	113
880-11100-8	SS-8	88	102
880-11100-9	SS-9	134 S1+	87
880-11100-10	SS-11	99	79
880-11100-11	SS-12	101	100
880-11100-12	SS-13	105	98
880-11100-13	SS-14	117	107
880-11100-14	SS-16	118	72
880-11100-15	SS-17	98	111
880-11100-16	SS-18	111	94
880-11100-17	SS-21	132 S1+	97
880-11100-18	SS-22	105	78
880-11152-A-31-A MS	Matrix Spike	109	99
880-11152-A-31-B MSD	Matrix Spike Duplicate	106	114
LCS 880-18969/1-A	Lab Control Sample	92	117
LCS 880-19036/1-A	Lab Control Sample	93	106
LCSD 880-18969/2-A	Lab Control Sample Dup	90	112
LCSD 880-19036/2-A	Lab Control Sample Dup	97	88
MB 880-18968/5-A	Method Blank	68 S1-	101
MB 880-18969/5-A	Method Blank	69 S1-	97
MB 880-19035/5-A	Method Blank	89	100
MB 880-19036/5-A	Method Blank	104	104

**Surrogate Legend**

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		1CO1 (70-130)	OTPH1 (70-130)
880-11100-1	SS-1	72	74
880-11100-1 MS	SS-1	66 S1-	56 S1-
880-11100-1 MSD	SS-1	64 S1-	55 S1-
880-11100-2	SS-2	30 S1-	51 S1-
880-11100-3	SS-3	73	72
880-11100-4	SS-4	70	72
880-11100-5	SS-5	75	73
880-11100-6	SS-6	67 S1-	67 S1-
880-11100-7	SS-7	74	75

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## Surrogate Summary

Client: Crain Environmental  
 Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
 SDG: Lea Co., NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-11100-8	SS-8	72	71
880-11100-9	SS-9	73	74
880-11100-10	SS-11	71	71
880-11100-11	SS-12	71	70
880-11100-12	SS-13	77	77
880-11100-13	SS-14	69 S1-	69 S1-
880-11100-14	SS-16	67 S1-	73
880-11100-15	SS-17	83	88
880-11100-16	SS-18	82	87
880-11100-17	SS-21	71	70
880-11100-18	SS-22	77	83
LCS 880-19009/2-A	Lab Control Sample	95	86
LCSD 880-19009/3-A	Lab Control Sample Dup	94	83
MB 880-19009/1-A	Method Blank	73	76

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

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

Lab Sample ID: MB 880-18968/5-A

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18968

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:33	02/10/22 16:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:33	02/10/22 16:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:33	02/10/22 16:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/22 08:33	02/10/22 16:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:33	02/10/22 16:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/22 08:33	02/10/22 16:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	02/10/22 08:33	02/10/22 16:22	1
1,4-Difluorobenzene (Surr)	101		70 - 130	02/10/22 08:33	02/10/22 16:22	1

Lab Sample ID: MB 880-18969/5-A

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18969

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 06:22	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 06:22	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 06:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/10/22 08:36	02/11/22 06:22	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/10/22 08:36	02/11/22 06:22	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/10/22 08:36	02/11/22 06:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130	02/10/22 08:36	02/11/22 06:22	1
1,4-Difluorobenzene (Surr)	97		70 - 130	02/10/22 08:36	02/11/22 06:22	1

Lab Sample ID: LCS 880-18969/1-A

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 18969

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09629		mg/Kg		96	70 - 130
Toluene	0.100	0.09081		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.08931		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1859		mg/Kg		93	70 - 130
o-Xylene	0.100	0.1028		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	117		70 - 130

Lab Sample ID: LCSD 880-18969/2-A

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18969

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09204		mg/Kg		92	70 - 130	5	35

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

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

Lab Sample ID: LCSD 880-18969/2-A

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18969

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.08516		mg/Kg		85	70 - 130	6	35
Ethylbenzene	0.100	0.08402		mg/Kg		84	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1735		mg/Kg		87	70 - 130	7	35
o-Xylene	0.100	0.09310		mg/Kg		93	70 - 130	10	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Lab Sample ID: 880-11100-1 MS

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: SS-1

Prep Type: Total/NA

Prep Batch: 18969

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U F2 F1	0.100	0.06571	F1	mg/Kg		65	70 - 130
Toluene	<0.00199	U F2 F1	0.100	0.06687	F1	mg/Kg		67	70 - 130
Ethylbenzene	<0.00199	U F2 F1	0.100	0.06208	F1	mg/Kg		62	70 - 130
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.201	0.1343	F1	mg/Kg		67	70 - 130
o-Xylene	<0.00199	U F1	0.100	0.07325		mg/Kg		73	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: 880-11100-1 MSD

Matrix: Solid

Analysis Batch: 19027

Client Sample ID: SS-1

Prep Type: Total/NA

Prep Batch: 18969

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F2 F1	0.0996	0.02846	F2 F1	mg/Kg		29	70 - 130	79	35
Toluene	<0.00199	U F2 F1	0.0996	0.03141	F2 F1	mg/Kg		32	70 - 130	72	35
Ethylbenzene	<0.00199	U F2 F1	0.0996	0.09476	F2	mg/Kg		95	70 - 130	42	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.199	0.05484	F2 F1	mg/Kg		28	70 - 130	84	35
o-Xylene	<0.00199	U F1	0.0996	0.05772	F1	mg/Kg		58	70 - 130	24	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	77		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: MB 880-19035/5-A

Matrix: Solid

Analysis Batch: 19116

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/11/22 11:13	02/11/22 22:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/22 11:13	02/11/22 22:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/22 11:13	02/11/22 22:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/11/22 11:13	02/11/22 22:14	1

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

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

Lab Sample ID: MB 880-19035/5-A

Matrix: Solid

Analysis Batch: 19116

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/22 11:13	02/11/22 22:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/11/22 11:13	02/11/22 22:14	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130				02/11/22 11:13	02/11/22 22:14	1
1,4-Difluorobenzene (Surr)	100		70 - 130				02/11/22 11:13	02/11/22 22:14	1

Lab Sample ID: MB 880-19036/5-A

Matrix: Solid

Analysis Batch: 19116

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 09:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 09:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 09:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		02/11/22 16:00	02/12/22 09:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		02/11/22 16:00	02/12/22 09:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		02/11/22 16:00	02/12/22 09:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130				02/11/22 16:00	02/12/22 09:09	1
1,4-Difluorobenzene (Surr)	104		70 - 130				02/11/22 16:00	02/12/22 09:09	1

Lab Sample ID: LCS 880-19036/1-A

Matrix: Solid

Analysis Batch: 19116

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09249		mg/Kg		92	70 - 130
Toluene	0.100	0.09207		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.09926		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.1837		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09006		mg/Kg		90	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	93		70 - 130				
1,4-Difluorobenzene (Surr)	106		70 - 130				

Lab Sample ID: LCSD 880-19036/2-A

Matrix: Solid

Analysis Batch: 19116

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19036

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08701		mg/Kg		87	70 - 130	6	35
Toluene	0.100	0.08975		mg/Kg		90	70 - 130	3	35
Ethylbenzene	0.100	0.09948		mg/Kg		99	70 - 130	0	35
m-Xylene & p-Xylene	0.200	0.1868		mg/Kg		93	70 - 130	2	35
o-Xylene	0.100	0.09313		mg/Kg		93	70 - 130	3	35

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

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

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	88		70 - 130

Lab Sample ID: 880-11152-A-31-A MS

Matrix: Solid

Analysis Batch: 19116

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 19036

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U F1	0.0998	0.06812	F1	mg/Kg		68	70 - 130
Toluene	<0.00201	U	0.0998	0.07261		mg/Kg		73	70 - 130
Ethylbenzene	<0.00201	U	0.0998	0.08506		mg/Kg		85	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1566		mg/Kg		78	70 - 130
o-Xylene	<0.00201	U	0.0998	0.08036		mg/Kg		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-11152-A-31-B MSD

Matrix: Solid

Analysis Batch: 19116

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 19036

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.0998	0.08550		mg/Kg		86	70 - 130	23	35
Toluene	<0.00201	U	0.0998	0.08578		mg/Kg		86	70 - 130	17	35
Ethylbenzene	<0.00201	U	0.0998	0.09057		mg/Kg		91	70 - 130	6	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1705		mg/Kg		85	70 - 130	8	35
o-Xylene	<0.00201	U	0.0998	0.08550		mg/Kg		86	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

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

Lab Sample ID: MB 880-19009/1-A

Matrix: Solid

Analysis Batch: 18981

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 19009

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 11:37	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 11:37	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		02/10/22 09:33	02/10/22 11:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130	02/10/22 09:33	02/10/22 11:37	1
o-Terphenyl	76		70 - 130	02/10/22 09:33	02/10/22 11:37	1

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

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

Lab Sample ID: LCS 880-19009/2-A

Matrix: Solid

Analysis Batch: 18981

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 19009

Analyte			Spike	LCS	LCS	Unit	D	%Rec	%Rec.		
			Added	Result	Qualifier				Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	968.5		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	907.9		mg/Kg		91	70 - 130		

Lab Sample ID: LCSD 880-19009/3-A

Matrix: Solid

Analysis Batch: 18981

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 19009

Top Bottom Results											
Analyte			Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.	RPD	RPD
			Added	Result	Qualifier				Limits		Limit
Gasoline Range Organics (GRO)-C6-C10			1000	957.3		mg/Kg		96	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	868.6		mg/Kg		87	70 - 130	4	20
Bottom Bottom Results											
Surrogate	LCSD		Limits								
	%Recovery	Qualifier									
1-Chlorooctane	94		70 - 130								
o-Terphenyl	83		70 - 130								

Lab Sample ID: 880-11100-1 MS

Matrix: Solid

Analysis Batch: 18981

Client Sample ID: SS-1

Prep Type: Total/NA

Prep Batch: 19009

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	842.4		mg/Kg		84	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U F1	1000	704.7	F1	mg/Kg		66	70 - 130		

Lab Sample ID: 880-11100-1 MSD

Matrix: Solid

Analysis Batch: 18981

Client Sample ID: SS-1

Prep Type: Total/NA

Prep Batch: 19009

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	828.2		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	694.6	F1	mg/Kg		65	70 - 130	1	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	64	S1-	70 - 130								

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

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

Lab Sample ID: 880-11100-1 MSD

Matrix: Solid

Analysis Batch: 18981

Client Sample ID: SS-1

Prep Type: Total/NA

Prep Batch: 19009

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	55	S1-	70 - 130

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-19061/1-A

Matrix: Solid

Analysis Batch: 19410

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00		mg/Kg			02/14/22 23:58	1	

Lab Sample ID: LCS 880-19061/2-A

Matrix: Solid

Analysis Batch: 19410

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	267.9		mg/Kg		107	90 - 110	

Lab Sample ID: LCSD 880-19061/3-A

Matrix: Solid

Analysis Batch: 19410

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	266.7		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 880-11100-9 MS

Matrix: Solid

Analysis Batch: 19410

Client Sample ID: SS-9

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	2950	F1	1240	4226		mg/Kg		103	90 - 110	

Lab Sample ID: 880-11100-9 MSD

Matrix: Solid

Analysis Batch: 19410

Client Sample ID: SS-9

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	2950	F1	1240	4450	F1	mg/Kg		121	90 - 110	5	20

Lab Sample ID: MB 880-19064/1-A

Matrix: Solid

Analysis Batch: 19435

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<5.00	U	5.00		mg/Kg			02/15/22 17:31	1	

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-19064/2-A

Matrix: Solid

Analysis Batch: 19435

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	255.9		mg/Kg		102	90 - 110		

Lab Sample ID: LCSD 880-19064/3-A

Matrix: Solid

Analysis Batch: 19435

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	255.3		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-11100-10 MS

Matrix: Solid

Analysis Batch: 19435

Client Sample ID: SS-11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	3980		1240	5341		mg/Kg		110	90 - 110		

Lab Sample ID: 880-11100-10 MSD

Matrix: Solid

Analysis Batch: 19435

Client Sample ID: SS-11

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3980		1240	5334		mg/Kg		109	90 - 110	0	20

## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

## GC VOA

## Prep Batch: 18968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-18968/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 18969

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11100-1	SS-1	Total/NA	Solid	5035	
880-11100-2	SS-2	Total/NA	Solid	5035	
880-11100-3	SS-3	Total/NA	Solid	5035	
880-11100-4	SS-4	Total/NA	Solid	5035	
880-11100-5	SS-5	Total/NA	Solid	5035	
880-11100-6	SS-6	Total/NA	Solid	5035	
880-11100-7	SS-7	Total/NA	Solid	5035	
880-11100-8	SS-8	Total/NA	Solid	5035	
880-11100-9	SS-9	Total/NA	Solid	5035	
MB 880-18969/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-18969/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-18969/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11100-1 MS	SS-1	Total/NA	Solid	5035	
880-11100-1 MSD	SS-1	Total/NA	Solid	5035	

## Analysis Batch: 19027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11100-1	SS-1	Total/NA	Solid	8021B	18969
880-11100-2	SS-2	Total/NA	Solid	8021B	18969
880-11100-3	SS-3	Total/NA	Solid	8021B	18969
880-11100-4	SS-4	Total/NA	Solid	8021B	18969
880-11100-5	SS-5	Total/NA	Solid	8021B	18969
880-11100-6	SS-6	Total/NA	Solid	8021B	18969
880-11100-7	SS-7	Total/NA	Solid	8021B	18969
880-11100-8	SS-8	Total/NA	Solid	8021B	18969
880-11100-9	SS-9	Total/NA	Solid	8021B	18969
MB 880-18968/5-A	Method Blank	Total/NA	Solid	8021B	18968
MB 880-18969/5-A	Method Blank	Total/NA	Solid	8021B	18969
LCS 880-18969/1-A	Lab Control Sample	Total/NA	Solid	8021B	18969
LCSD 880-18969/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	18969
880-11100-1 MS	SS-1	Total/NA	Solid	8021B	18969
880-11100-1 MSD	SS-1	Total/NA	Solid	8021B	18969

## Prep Batch: 19035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-19035/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 19036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11100-10	SS-11	Total/NA	Solid	5035	
880-11100-11	SS-12	Total/NA	Solid	5035	
880-11100-12	SS-13	Total/NA	Solid	5035	
880-11100-13	SS-14	Total/NA	Solid	5035	
880-11100-14	SS-16	Total/NA	Solid	5035	
880-11100-15	SS-17	Total/NA	Solid	5035	
880-11100-16	SS-18	Total/NA	Solid	5035	
880-11100-17	SS-21	Total/NA	Solid	5035	

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## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

## GC VOA (Continued)

## Prep Batch: 19036 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11100-18	SS-22	Total/NA	Solid	5035	
MB 880-19036/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-19036/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-19036/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11152-A-31-A MS	Matrix Spike	Total/NA	Solid	5035	
880-11152-A-31-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 19116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11100-10	SS-11	Total/NA	Solid	8021B	19036
880-11100-11	SS-12	Total/NA	Solid	8021B	19036
880-11100-12	SS-13	Total/NA	Solid	8021B	19036
880-11100-13	SS-14	Total/NA	Solid	8021B	19036
880-11100-14	SS-16	Total/NA	Solid	8021B	19036
880-11100-15	SS-17	Total/NA	Solid	8021B	19036
880-11100-16	SS-18	Total/NA	Solid	8021B	19036
880-11100-17	SS-21	Total/NA	Solid	8021B	19036
880-11100-18	SS-22	Total/NA	Solid	8021B	19036
MB 880-19035/5-A	Method Blank	Total/NA	Solid	8021B	19035
MB 880-19036/5-A	Method Blank	Total/NA	Solid	8021B	19036
LCS 880-19036/1-A	Lab Control Sample	Total/NA	Solid	8021B	19036
LCSD 880-19036/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	19036
880-11152-A-31-A MS	Matrix Spike	Total/NA	Solid	8021B	19036
880-11152-A-31-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	19036

## Analysis Batch: 19290

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11100-1	SS-1	Total/NA	Solid	Total BTEX	
880-11100-2	SS-2	Total/NA	Solid	Total BTEX	
880-11100-3	SS-3	Total/NA	Solid	Total BTEX	
880-11100-4	SS-4	Total/NA	Solid	Total BTEX	
880-11100-5	SS-5	Total/NA	Solid	Total BTEX	
880-11100-6	SS-6	Total/NA	Solid	Total BTEX	
880-11100-7	SS-7	Total/NA	Solid	Total BTEX	
880-11100-8	SS-8	Total/NA	Solid	Total BTEX	
880-11100-9	SS-9	Total/NA	Solid	Total BTEX	

## Analysis Batch: 19350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11100-10	SS-11	Total/NA	Solid	Total BTEX	
880-11100-11	SS-12	Total/NA	Solid	Total BTEX	
880-11100-12	SS-13	Total/NA	Solid	Total BTEX	
880-11100-13	SS-14	Total/NA	Solid	Total BTEX	
880-11100-14	SS-16	Total/NA	Solid	Total BTEX	
880-11100-15	SS-17	Total/NA	Solid	Total BTEX	
880-11100-16	SS-18	Total/NA	Solid	Total BTEX	
880-11100-17	SS-21	Total/NA	Solid	Total BTEX	
880-11100-18	SS-22	Total/NA	Solid	Total BTEX	

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## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

## GC Semi VOA

## Analysis Batch: 18981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11100-1	SS-1	Total/NA	Solid	8015B NM	19009
880-11100-2	SS-2	Total/NA	Solid	8015B NM	19009
880-11100-3	SS-3	Total/NA	Solid	8015B NM	19009
880-11100-4	SS-4	Total/NA	Solid	8015B NM	19009
880-11100-5	SS-5	Total/NA	Solid	8015B NM	19009
880-11100-6	SS-6	Total/NA	Solid	8015B NM	19009
880-11100-7	SS-7	Total/NA	Solid	8015B NM	19009
880-11100-8	SS-8	Total/NA	Solid	8015B NM	19009
880-11100-9	SS-9	Total/NA	Solid	8015B NM	19009
880-11100-10	SS-11	Total/NA	Solid	8015B NM	19009
880-11100-11	SS-12	Total/NA	Solid	8015B NM	19009
880-11100-12	SS-13	Total/NA	Solid	8015B NM	19009
880-11100-13	SS-14	Total/NA	Solid	8015B NM	19009
880-11100-14	SS-16	Total/NA	Solid	8015B NM	19009
880-11100-15	SS-17	Total/NA	Solid	8015B NM	19009
880-11100-16	SS-18	Total/NA	Solid	8015B NM	19009
880-11100-17	SS-21	Total/NA	Solid	8015B NM	19009
880-11100-18	SS-22	Total/NA	Solid	8015B NM	19009
MB 880-19009/1-A	Method Blank	Total/NA	Solid	8015B NM	19009
LCS 880-19009/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	19009
LCSD 880-19009/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	19009
880-11100-1 MS	SS-1	Total/NA	Solid	8015B NM	19009
880-11100-1 MSD	SS-1	Total/NA	Solid	8015B NM	19009

## Prep Batch: 19009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11100-1	SS-1	Total/NA	Solid	8015NM Prep	
880-11100-2	SS-2	Total/NA	Solid	8015NM Prep	
880-11100-3	SS-3	Total/NA	Solid	8015NM Prep	
880-11100-4	SS-4	Total/NA	Solid	8015NM Prep	
880-11100-5	SS-5	Total/NA	Solid	8015NM Prep	
880-11100-6	SS-6	Total/NA	Solid	8015NM Prep	
880-11100-7	SS-7	Total/NA	Solid	8015NM Prep	
880-11100-8	SS-8	Total/NA	Solid	8015NM Prep	
880-11100-9	SS-9	Total/NA	Solid	8015NM Prep	
880-11100-10	SS-11	Total/NA	Solid	8015NM Prep	
880-11100-11	SS-12	Total/NA	Solid	8015NM Prep	
880-11100-12	SS-13	Total/NA	Solid	8015NM Prep	
880-11100-13	SS-14	Total/NA	Solid	8015NM Prep	
880-11100-14	SS-16	Total/NA	Solid	8015NM Prep	
880-11100-15	SS-17	Total/NA	Solid	8015NM Prep	
880-11100-16	SS-18	Total/NA	Solid	8015NM Prep	
880-11100-17	SS-21	Total/NA	Solid	8015NM Prep	
880-11100-18	SS-22	Total/NA	Solid	8015NM Prep	
MB 880-19009/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-19009/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-19009/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-11100-1 MS	SS-1	Total/NA	Solid	8015NM Prep	
880-11100-1 MSD	SS-1	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

## GC Semi VOA

## Analysis Batch: 19141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11100-1	SS-1	Total/NA	Solid	8015 NM	
880-11100-2	SS-2	Total/NA	Solid	8015 NM	
880-11100-3	SS-3	Total/NA	Solid	8015 NM	
880-11100-4	SS-4	Total/NA	Solid	8015 NM	
880-11100-5	SS-5	Total/NA	Solid	8015 NM	
880-11100-6	SS-6	Total/NA	Solid	8015 NM	
880-11100-7	SS-7	Total/NA	Solid	8015 NM	
880-11100-8	SS-8	Total/NA	Solid	8015 NM	
880-11100-9	SS-9	Total/NA	Solid	8015 NM	
880-11100-10	SS-11	Total/NA	Solid	8015 NM	
880-11100-11	SS-12	Total/NA	Solid	8015 NM	
880-11100-12	SS-13	Total/NA	Solid	8015 NM	
880-11100-13	SS-14	Total/NA	Solid	8015 NM	
880-11100-14	SS-16	Total/NA	Solid	8015 NM	
880-11100-15	SS-17	Total/NA	Solid	8015 NM	
880-11100-16	SS-18	Total/NA	Solid	8015 NM	
880-11100-17	SS-21	Total/NA	Solid	8015 NM	
880-11100-18	SS-22	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 19061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11100-1	SS-1	Soluble	Solid	DI Leach	
880-11100-2	SS-2	Soluble	Solid	DI Leach	
880-11100-3	SS-3	Soluble	Solid	DI Leach	
880-11100-4	SS-4	Soluble	Solid	DI Leach	
880-11100-5	SS-5	Soluble	Solid	DI Leach	
880-11100-6	SS-6	Soluble	Solid	DI Leach	
880-11100-7	SS-7	Soluble	Solid	DI Leach	
880-11100-8	SS-8	Soluble	Solid	DI Leach	
880-11100-9	SS-9	Soluble	Solid	DI Leach	
MB 880-19061/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-19061/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-19061/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-11100-9 MS	SS-9	Soluble	Solid	DI Leach	
880-11100-9 MSD	SS-9	Soluble	Solid	DI Leach	

## Leach Batch: 19064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11100-10	SS-11	Soluble	Solid	DI Leach	
880-11100-11	SS-12	Soluble	Solid	DI Leach	
880-11100-12	SS-13	Soluble	Solid	DI Leach	
880-11100-13	SS-14	Soluble	Solid	DI Leach	
880-11100-14	SS-16	Soluble	Solid	DI Leach	
880-11100-15	SS-17	Soluble	Solid	DI Leach	
880-11100-16	SS-18	Soluble	Solid	DI Leach	
880-11100-17	SS-21	Soluble	Solid	DI Leach	
880-11100-18	SS-22	Soluble	Solid	DI Leach	
MB 880-19064/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-19064/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

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## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

## HPLC/IC (Continued)

## Leach Batch: 19064 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-19064/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-11100-10 MS	SS-11	Soluble	Solid	DI Leach	
880-11100-10 MSD	SS-11	Soluble	Solid	DI Leach	

## Analysis Batch: 19410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11100-1	SS-1	Soluble	Solid	300.0	19061
880-11100-2	SS-2	Soluble	Solid	300.0	19061
880-11100-3	SS-3	Soluble	Solid	300.0	19061
880-11100-4	SS-4	Soluble	Solid	300.0	19061
880-11100-5	SS-5	Soluble	Solid	300.0	19061
880-11100-6	SS-6	Soluble	Solid	300.0	19061
880-11100-7	SS-7	Soluble	Solid	300.0	19061
880-11100-8	SS-8	Soluble	Solid	300.0	19061
880-11100-9	SS-9	Soluble	Solid	300.0	19061
MB 880-19061/1-A	Method Blank	Soluble	Solid	300.0	19061
LCS 880-19061/2-A	Lab Control Sample	Soluble	Solid	300.0	19061
LCSD 880-19061/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	19061
880-11100-9 MS	SS-9	Soluble	Solid	300.0	19061
880-11100-9 MSD	SS-9	Soluble	Solid	300.0	19061

## Analysis Batch: 19435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11100-10	SS-11	Soluble	Solid	300.0	19064
880-11100-11	SS-12	Soluble	Solid	300.0	19064
880-11100-12	SS-13	Soluble	Solid	300.0	19064
880-11100-13	SS-14	Soluble	Solid	300.0	19064
880-11100-14	SS-16	Soluble	Solid	300.0	19064
880-11100-15	SS-17	Soluble	Solid	300.0	19064
880-11100-16	SS-18	Soluble	Solid	300.0	19064
880-11100-17	SS-21	Soluble	Solid	300.0	19064
880-11100-18	SS-22	Soluble	Solid	300.0	19064
MB 880-19064/1-A	Method Blank	Soluble	Solid	300.0	19064
LCS 880-19064/2-A	Lab Control Sample	Soluble	Solid	300.0	19064
LCSD 880-19064/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	19064
880-11100-10 MS	SS-11	Soluble	Solid	300.0	19064
880-11100-10 MSD	SS-11	Soluble	Solid	300.0	19064

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## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

Client Sample ID: SS-1

Lab Sample ID: 880-11100-1

Date Collected: 02/08/22 13:45

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	18969	02/10/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/11/22 06:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:53	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19141	02/11/22 13:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19009	02/10/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18981	02/10/22 13:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	19061	02/10/22 15:24	CH	XEN MID
Soluble	Analysis	300.0		1			19410	02/15/22 01:05	CH	XEN MID

Client Sample ID: SS-2

Lab Sample ID: 880-11100-2

Date Collected: 02/08/22 13:50

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	18969	02/10/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/11/22 07:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:53	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19141	02/11/22 13:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19009	02/10/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18981	02/10/22 14:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	19061	02/10/22 15:24	CH	XEN MID
Soluble	Analysis	300.0		5			19410	02/15/22 01:14	CH	XEN MID

Client Sample ID: SS-3

Lab Sample ID: 880-11100-3

Date Collected: 02/08/22 13:55

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	18969	02/10/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/11/22 07:45	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:53	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19141	02/11/22 13:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19009	02/10/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18981	02/10/22 14:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	19061	02/10/22 15:24	CH	XEN MID
Soluble	Analysis	300.0		10			19410	02/15/22 01:24	CH	XEN MID

Client Sample ID: SS-4

Lab Sample ID: 880-11100-4

Date Collected: 02/08/22 14:00

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	18969	02/10/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/11/22 08:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:53	MR	XEN MID

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## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

## Client Sample ID: SS-4

## Lab Sample ID: 880-11100-4

Date Collected: 02/08/22 14:00

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			19141	02/11/22 13:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19009	02/10/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18981	02/10/22 14:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19061	02/10/22 15:24	CH	XEN MID
Soluble	Analysis	300.0		5			19410	02/15/22 01:52	CH	XEN MID

## Client Sample ID: SS-5

## Lab Sample ID: 880-11100-5

Date Collected: 02/08/22 14:05

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	18969	02/10/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/11/22 09:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:53	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19141	02/11/22 13:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19009	02/10/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18981	02/10/22 15:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	19061	02/10/22 15:24	CH	XEN MID
Soluble	Analysis	300.0		10			19410	02/15/22 02:02	CH	XEN MID

## Client Sample ID: SS-6

## Lab Sample ID: 880-11100-6

Date Collected: 02/08/22 14:10

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	18969	02/10/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/11/22 09:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:53	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19141	02/11/22 13:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19009	02/10/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18981	02/10/22 15:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19061	02/10/22 15:24	CH	XEN MID
Soluble	Analysis	300.0		1			19410	02/15/22 02:11	CH	XEN MID

## Client Sample ID: SS-7

## Lab Sample ID: 880-11100-7

Date Collected: 02/08/22 14:15

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	18969	02/10/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/11/22 09:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:53	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19141	02/11/22 13:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	19009	02/10/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18981	02/10/22 15:55	AJ	XEN MID

Eurofins Midland

## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

Client Sample ID: SS-7

Lab Sample ID: 880-11100-7

Date Collected: 02/08/22 14:15

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	19061	02/10/22 15:24	CH	XEN MID
Soluble	Analysis	300.0		5			19410	02/15/22 02:21	CH	XEN MID

Client Sample ID: SS-8

Lab Sample ID: 880-11100-8

Date Collected: 02/08/22 14:20

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	18969	02/10/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/11/22 10:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:53	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19141	02/11/22 13:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19009	02/10/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18981	02/10/22 16:15	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	19061	02/10/22 15:24	CH	XEN MID
Soluble	Analysis	300.0		5			19410	02/15/22 02:30	CH	XEN MID

Client Sample ID: SS-9

Lab Sample ID: 880-11100-9

Date Collected: 02/08/22 14:25

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	18969	02/10/22 08:36	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19027	02/11/22 10:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19290	02/14/22 08:53	MR	XEN MID
Total/NA	Analysis	8015 NM		1			19141	02/11/22 13:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19009	02/10/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18981	02/10/22 16:35	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	19061	02/10/22 15:24	CH	XEN MID
Soluble	Analysis	300.0		5			19410	02/15/22 02:40	CH	XEN MID

Client Sample ID: SS-11

Lab Sample ID: 880-11100-10

Date Collected: 02/08/22 14:30

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	19036	02/11/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19116	02/12/22 14:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19141	02/11/22 13:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19009	02/10/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18981	02/10/22 16:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	19064	02/10/22 15:36	CH	XEN MID
Soluble	Analysis	300.0		5			19435	02/15/22 17:57	CH	XEN MID

Eurofins Midland

## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

Client Sample ID: SS-12

Lab Sample ID: 880-11100-11

Date Collected: 02/08/22 14:35

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	19036	02/11/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19116	02/12/22 14:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19141	02/11/22 13:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19009	02/10/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18981	02/10/22 17:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	19064	02/10/22 15:36	CH	XEN MID
Soluble	Analysis	300.0		5			19435	02/15/22 18:24	CH	XEN MID

Client Sample ID: SS-13

Lab Sample ID: 880-11100-12

Date Collected: 02/08/22 14:40

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	19036	02/11/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19116	02/12/22 14:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19141	02/11/22 13:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19009	02/10/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18981	02/10/22 17:57	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	19064	02/10/22 15:36	CH	XEN MID
Soluble	Analysis	300.0		1			19435	02/15/22 18:33	CH	XEN MID

Client Sample ID: SS-14

Lab Sample ID: 880-11100-13

Date Collected: 02/08/22 14:45

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	19036	02/11/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19116	02/12/22 15:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19141	02/11/22 13:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19009	02/10/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18981	02/10/22 18:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	19064	02/10/22 15:36	CH	XEN MID
Soluble	Analysis	300.0		1			19435	02/15/22 18:42	CH	XEN MID

Client Sample ID: SS-16

Lab Sample ID: 880-11100-14

Date Collected: 02/08/22 14:50

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	19036	02/11/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19116	02/12/22 15:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID

Eurofins Midland

## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

Client Sample ID: SS-16

Lab Sample ID: 880-11100-14

Date Collected: 02/08/22 14:50

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			19141	02/11/22 13:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19009	02/10/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18981	02/10/22 18:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	19064	02/10/22 15:36	CH	XEN MID
Soluble	Analysis	300.0		1			19435	02/15/22 18:51	CH	XEN MID

Client Sample ID: SS-17

Lab Sample ID: 880-11100-15

Date Collected: 02/08/22 14:55

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	19036	02/11/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19116	02/12/22 16:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19141	02/11/22 13:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19009	02/10/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18981	02/10/22 19:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	19064	02/10/22 15:36	CH	XEN MID
Soluble	Analysis	300.0		1			19435	02/15/22 19:17	CH	XEN MID

Client Sample ID: SS-18

Lab Sample ID: 880-11100-16

Date Collected: 02/08/22 15:00

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	19036	02/11/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19116	02/12/22 16:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19141	02/11/22 13:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	19009	02/10/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18981	02/10/22 19:21	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	19064	02/10/22 15:36	CH	XEN MID
Soluble	Analysis	300.0		1			19435	02/15/22 19:26	CH	XEN MID

Client Sample ID: SS-21

Lab Sample ID: 880-11100-17

Date Collected: 02/08/22 15:05

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	19036	02/11/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19116	02/12/22 16:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19141	02/11/22 13:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	19009	02/10/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18981	02/10/22 19:43	AJ	XEN MID

Eurofins Midland

## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

Client Sample ID: SS-21

Lab Sample ID: 880-11100-17

Date Collected: 02/08/22 15:05

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	19064	02/10/22 15:36	CH	XEN MID
Soluble	Analysis	300.0		1			19435	02/15/22 19:35	CH	XEN MID

Client Sample ID: SS-22

Lab Sample ID: 880-11100-18

Date Collected: 02/08/22 15:10

Matrix: Solid

Date Received: 02/09/22 15:35

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	19036	02/11/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	19116	02/12/22 17:02	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			19350	02/14/22 09:43	KL	XEN MID
Total/NA	Analysis	8015 NM		1			19141	02/11/22 13:02	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	19009	02/10/22 09:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18981	02/10/22 20:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	19064	02/10/22 15:36	CH	XEN MID
Soluble	Analysis	300.0		1			19435	02/15/22 19:44	CH	XEN MID

## Laboratory References:

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



Accreditation/Certification Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Method Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

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

**Protocol References:**

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

Eurofins Midland

## Sample Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-11100-1  
SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-11100-1	SS-1	Solid	02/08/22 13:45	02/09/22 15:35	4.5'
880-11100-2	SS-2	Solid	02/08/22 13:50	02/09/22 15:35	5.5'
880-11100-3	SS-3	Solid	02/08/22 13:55	02/09/22 15:35	2'
880-11100-4	SS-4	Solid	02/08/22 14:00	02/09/22 15:35	2'
880-11100-5	SS-5	Solid	02/08/22 14:05	02/09/22 15:35	4'
880-11100-6	SS-6	Solid	02/08/22 14:10	02/09/22 15:35	1'
880-11100-7	SS-7	Solid	02/08/22 14:15	02/09/22 15:35	3'
880-11100-8	SS-8	Solid	02/08/22 14:20	02/09/22 15:35	2'
880-11100-9	SS-9	Solid	02/08/22 14:25	02/09/22 15:35	2'
880-11100-10	SS-11	Solid	02/08/22 14:30	02/09/22 15:35	1.5'
880-11100-11	SS-12	Solid	02/08/22 14:35	02/09/22 15:35	1.5'
880-11100-12	SS-13	Solid	02/08/22 14:40	02/09/22 15:35	4'
880-11100-13	SS-14	Solid	02/08/22 14:45	02/09/22 15:35	4'
880-11100-14	SS-16	Solid	02/08/22 14:50	02/09/22 15:35	4.5'
880-11100-15	SS-17	Solid	02/08/22 14:55	02/09/22 15:35	4.5'
880-11100-16	SS-18	Solid	02/08/22 15:00	02/09/22 15:35	4'
880-11100-17	SS-21	Solid	02/08/22 15:05	02/09/22 15:35	4.5'
880-11100-18	SS-22	Solid	02/08/22 15:10	02/09/22 15:35	2'



Environment Testing  
Xenco

# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: 11100

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Project Manager	Lindy Crain	Bill to, (if different)	Eland / Surdawn
Company Name	Crain Environmental	Company Name	Ralph Butler
Address	2425 E 17th St.	Address	16400 Dallas Pkwy, Ste 100
City, State ZIP	Odessa, TX 79761	City, State ZIP	Dallas, TX 75248
Phone	(575) 441-7244	Email	Lindy.Crain@gmail.com

Work Order Comments	
Program, UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project: NM	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other	

Project Name	Bobbi State W/ Unit # 3	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	Pres. Code		ANALYSIS REQUEST												Preservative Codes	
Project Number		Due Date																None NO	
Project Location	Lea Co. NM	TAT starts the day received by the lab, if received by 4:30pm																Cool Cool	
Sample Name	Lindy Crain																	HCL, HC	
PO #																		H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub>	
SAMPLE RECEIPT		Tagged Blank:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wet Ice:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>													H <sub>3</sub> PO <sub>4</sub> , HP	
Samples Received Intact:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Thermometer ID:	TPB															NaHSO <sub>4</sub> , NABIS	
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Correction Factor:	1															Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> , NaSO <sub>3</sub>	
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Temperature Reading:	5.8															Zn Acetate+NaOH Zn	
Total Containers:		Corrected Temperature:	5.9															NaOH+Ascorbic Acid SARC	
Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont													Sample Comments
SS-1	S	2/8/22	1345	4.5'	C	1	TPH 8015M												20
SS-2							BTEx												
SS-3							Chlorides												
SS-4																			
SS-5																			
SS-6																			
SS-7																			
SS-8																			
SS-9																			
SS-11																			



880-11100 Chain of Custody

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO <sub>2</sub>	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U																												

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
<i>Lindy Crain</i>	<i>Shirley R</i>	2/9/22 15:35			



## Environment Testing

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199

## Chain of Custody

Work Order No: 11100

www.xenco.com Page 2 of 2

Project Manager	Lindy Crain	Bill to: (if different)	Elford / Sundown
Company Name	Crain Environmental	Company Name	Ralph Butler
Address:	2925 E 17th St	Address:	14400 Dallas Pkwy, Ste 100
City, State ZIP	Odeessa, TX 79761	City, State ZIP	Dallas, TX 75248
Phone	(575) 441-7244	Email	Lindy.crain@gmail.com

Work Order Comments					
Program:	UST/PST <input type="checkbox"/>	PRP <input type="checkbox"/>	Brownfields <input type="checkbox"/>	RRC <input type="checkbox"/>	Superfund <input type="checkbox"/>
State of Project:	NA				
Reporting Level II	<input type="checkbox"/>	Level III	<input type="checkbox"/>	PST/UST	TRRP <input type="checkbox"/>
Level IV	<input type="checkbox"/>				
Deliverables	EDD <input type="checkbox"/>	ADAPT <input type="checkbox"/>	Other		

ANALYSIS REQUEST				Preservative Codes	
Project Name:	Bobbi State NF Unit # 3	Turn Around			
Project Number:	—	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush			None NO
Project Location:	Lea Co., NM	Due Date:			Cool Cool
Sampler's Name:	Lindy Dean	TAT starts the day received by the lab, if received by 4:30pm			HCL, HC
PO #	—				H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub>
SAMPLE RECEIPT		Temp Blank.	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Wet Ice:	H <sub>3</sub> PO <sub>4</sub> HP
Samples Received Intact:	(Yes) Yes (No) No	Thermometer ID			NaHSO <sub>4</sub> NABIS
Cooler Custody Seals:	Yes No <del>N/A</del>	Correction Factor	1		Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub>
Sample Custody Seals:	Yes No <del>N/A</del>	Temperature Reading	5.8		Zn Acetate+NaOH Zn
Total Containers:		Corrected Temperature:	5.9		NaOH+Ascorbic Acid SAPC
Parameters			Pres. Code		
H 8015M					
TEX					
various					

[illegible]

Total 200.7 / 6010	200.8 / 6020:	8RCRA	13PPM	Texas	11	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO <sub>2</sub>	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP	6010	8RCRA	5b	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U					Hg	1631 / 245	1 / 7470	1 / 7471					

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Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 <i>Andy L...</i>	<i>[Signature]</i>	2/9/72 15:35	2		
3			4		
5			6		

## Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-11100-1

SDG Number: Lea Co., NM

Login Number: 11100

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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





Environment Testing  
America

## ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-12436-1

Laboratory Sample Delivery Group: Lea Co. NM  
Client Project/Site: Bobbi State WF Unit #003

For:

Crain Environmental  
2925 E. 17th St.  
Odessa, Texas 79761

Attn: Cindy Crain

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
4/1/2022 8:38:58 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

### LINKS

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

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



Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Laboratory Job ID: 880-12436-1  
SDG: Lea Co. NM

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## Definitions/Glossary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

## Qualifiers

## GC VOA

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

## GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

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

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Case Narrative

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

---

**Job ID: 880-12436-1**

---

**Laboratory: Eurofins Midland****Narrative****Job Narrative  
880-12436-1****Receipt**

The samples were received on 3/15/2022 1:21 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.4°C

**GC VOA**

Method 8021B: The following sample was diluted due to the nature of the sample matrix: SS-15 (880-12436-9) at 20.0. Elevated reporting limits (RLs) are provided.

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

**GC Semi VOA**

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-21661 and analytical batch 880-21675 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10

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

**HPLC/IC**

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

## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

## Client Sample ID: SS-3

Lab Sample ID: 880-12436-1

Date Collected: 03/14/22 13:40

Matrix: Solid

Date Received: 03/15/22 13:21

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	217		49.9		mg/Kg			03/17/22 08:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		03/15/22 15:59	03/16/22 13:24	1
Diesel Range Organics (Over C10-C28)	111		49.9		mg/Kg		03/15/22 15:59	03/16/22 13:24	1
Oil Range Organics (Over C28-C36)	106		49.9		mg/Kg		03/15/22 15:59	03/16/22 13:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	125		70 - 130				03/15/22 15:59	03/16/22 13:24	1
o-Terphenyl	122		70 - 130				03/15/22 15:59	03/16/22 13:24	1

## Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	130000		1010		mg/Kg		03/31/22 18:29	04/01/22 00:01	100

## Client Sample ID: SS-4

Lab Sample ID: 880-12436-2

Date Collected: 03/14/22 13:45

Matrix: Solid

Date Received: 03/15/22 13:21

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	710		50.0		mg/Kg			03/17/22 08:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		03/15/22 15:59	03/16/22 13:44	1
Diesel Range Organics (Over C10-C28)	641		50.0		mg/Kg		03/15/22 15:59	03/16/22 13:44	1
Oil Range Organics (Over C28-C36)	69.1		50.0		mg/Kg		03/15/22 15:59	03/16/22 13:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130				03/15/22 15:59	03/16/22 13:44	1
o-Terphenyl	113		70 - 130				03/15/22 15:59	03/16/22 13:44	1

## Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9120		102		mg/Kg		03/31/22 18:29	04/01/22 00:37	10

Eurofins Midland

## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

Client Sample ID: SS-6

Lab Sample ID: 880-12436-3

Date Collected: 03/14/22 13:50

Matrix: Solid

Date Received: 03/15/22 13:21

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	110		50.0		mg/Kg			03/17/22 08:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		03/15/22 15:59	03/16/22 14:05	1
Diesel Range Organics (Over C10-C28)	54.6		50.0		mg/Kg		03/15/22 15:59	03/16/22 14:05	1
Oil Range Organics (Over C28-C36)	55.4		50.0		mg/Kg		03/15/22 15:59	03/16/22 14:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130				03/15/22 15:59	03/16/22 14:05	1
o-Terphenyl	111		70 - 130				03/15/22 15:59	03/16/22 14:05	1

Client Sample ID: SS-7

Lab Sample ID: 880-12436-4

Date Collected: 03/14/22 13:55

Matrix: Solid

Date Received: 03/15/22 13:21

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/17/22 08:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9		mg/Kg		03/15/22 15:59	03/16/22 14:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/15/22 15:59	03/16/22 14:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/15/22 15:59	03/16/22 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				03/15/22 15:59	03/16/22 14:25	1
o-Terphenyl	128		70 - 130				03/15/22 15:59	03/16/22 14:25	1

## Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5790		102		mg/Kg		03/31/22 18:29	04/01/22 10:53	10

Client Sample ID: SS-8

Lab Sample ID: 880-12436-5

Date Collected: 03/14/22 14:00

Matrix: Solid

Date Received: 03/15/22 13:21

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/17/22 08:43	1

Eurofins Midland

## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

Client Sample ID: SS-8

Lab Sample ID: 880-12436-5

Date Collected: 03/14/22 14:00

Matrix: Solid

Date Received: 03/15/22 13:21

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		03/15/22 15:59	03/16/22 14:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/15/22 15:59	03/16/22 14:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/15/22 15:59	03/16/22 14:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				03/15/22 15:59	03/16/22 14:46	1
o-Terphenyl	118		70 - 130				03/15/22 15:59	03/16/22 14:46	1

## Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3570		10.0		mg/Kg		03/31/22 18:29	04/01/22 01:25	1

Client Sample ID: SS-9

Lab Sample ID: 880-12436-6

Date Collected: 03/14/22 14:05

Matrix: Solid

Date Received: 03/15/22 13:21

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/17/22 08:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		03/15/22 15:59	03/16/22 15:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/15/22 15:59	03/16/22 15:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/15/22 15:59	03/16/22 15:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				03/15/22 15:59	03/16/22 15:06	1
o-Terphenyl	109		70 - 130				03/15/22 15:59	03/16/22 15:06	1

## Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1510		9.84		mg/Kg		03/31/22 18:29	04/01/22 02:00	1

Client Sample ID: SS-11

Lab Sample ID: 880-12436-7

Date Collected: 03/14/22 14:10

Matrix: Solid

Date Received: 03/15/22 13:21

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/17/22 08:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		03/15/22 15:59	03/16/22 15:27	1

Eurofins Midland

## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

Client Sample ID: SS-11

Lab Sample ID: 880-12436-7

Date Collected: 03/14/22 14:10

Matrix: Solid

Date Received: 03/15/22 13:21

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/15/22 15:59	03/16/22 15:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/15/22 15:59	03/16/22 15:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130				03/15/22 15:59	03/16/22 15:27	1
o-Terphenyl	108		70 - 130				03/15/22 15:59	03/16/22 15:27	1

## Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3460		9.82		mg/Kg		03/31/22 18:29	04/01/22 02:12	1

Client Sample ID: SS-12

Lab Sample ID: 880-12436-8

Date Collected: 03/14/22 14:15

Matrix: Solid

Date Received: 03/15/22 13:21

Sample Depth: 4.5'

## Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1750		10.2		mg/Kg		03/31/22 18:29	04/01/22 02:24	1

Client Sample ID: SS-15

Lab Sample ID: 880-12436-9

Date Collected: 03/14/22 14:20

Matrix: Solid

Date Received: 03/15/22 13:21

Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0401	U	0.0401		mg/Kg		03/21/22 10:00	03/23/22 04:34	20
Toluene	0.270		0.0401		mg/Kg		03/21/22 10:00	03/23/22 04:34	20
Ethylbenzene	0.298		0.0401		mg/Kg		03/21/22 10:00	03/23/22 04:34	20
m-Xylene & p-Xylene	0.927		0.0802		mg/Kg		03/21/22 10:00	03/23/22 04:34	20
o-Xylene	0.482		0.0401		mg/Kg		03/21/22 10:00	03/23/22 04:34	20
Xylenes, Total	1.41		0.0802		mg/Kg		03/21/22 10:00	03/23/22 04:34	20
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				03/21/22 10:00	03/23/22 04:34	20
1,4-Difluorobenzene (Surr)	85		70 - 130				03/21/22 10:00	03/23/22 04:34	20

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.98		0.0802		mg/Kg			03/23/22 14:31	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/17/22 08:43	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0		mg/Kg		03/15/22 15:59	03/16/22 15:48	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

Client Sample ID: SS-15

Lab Sample ID: 880-12436-9

Date Collected: 03/14/22 14:20

Matrix: Solid

Date Received: 03/15/22 13:21

Sample Depth: 1.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/15/22 15:59	03/16/22 15:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/15/22 15:59	03/16/22 15:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				03/15/22 15:59	03/16/22 15:48	1
o-Terphenyl	118		70 - 130				03/15/22 15:59	03/16/22 15:48	1

Client Sample ID: SS-22

Lab Sample ID: 880-12436-10

Date Collected: 03/14/22 14:25

Matrix: Solid

Date Received: 03/15/22 13:21

Sample Depth: 4.5'

## Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10800		101		mg/Kg		03/31/22 18:29	04/01/22 02:59	10

## Surrogate Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-12436-9	SS-15	98	85
LCS 880-22004/1-A	Lab Control Sample	96	100
LCSD 880-22004/2-A	Lab Control Sample Dup	96	100
MB 880-21824/5-A	Method Blank	97	100
MB 880-22004/5-A	Method Blank	98	101
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-12436-1	SS-3	125	122
880-12436-2	SS-4	118	113
880-12436-3	SS-6	113	111
880-12436-4	SS-7	128	128
880-12436-5	SS-8	121	118
880-12436-6	SS-9	109	109
880-12436-7	SS-11	107	108
880-12436-9	SS-15	116	118
LCS 880-21661/2-A	Lab Control Sample	128	130
LCSD 880-21661/3-A	Lab Control Sample Dup	103	106
MB 880-21661/1-A	Method Blank	120	126
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

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

Lab Sample ID: MB 880-21824/5-A

Matrix: Solid

Analysis Batch: 22110

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21824

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/22 08:30	03/22/22 11:48	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/22 08:30	03/22/22 11:48	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/22 08:30	03/22/22 11:48	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/22/22 08:30	03/22/22 11:48	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/22 08:30	03/22/22 11:48	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/22/22 08:30	03/22/22 11:48	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/22/22 08:30	03/22/22 11:48	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/22/22 08:30	03/22/22 11:48	1

Lab Sample ID: MB 880-22004/5-A

Matrix: Solid

Analysis Batch: 22110

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22004

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/21/22 10:00	03/23/22 01:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/21/22 10:00	03/23/22 01:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/21/22 10:00	03/23/22 01:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/21/22 10:00	03/23/22 01:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/21/22 10:00	03/23/22 01:02	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/21/22 10:00	03/23/22 01:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	03/21/22 10:00	03/23/22 01:02	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/21/22 10:00	03/23/22 01:02	1

Lab Sample ID: LCS 880-22004/1-A

Matrix: Solid

Analysis Batch: 22110

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22004

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08758		mg/Kg		88	70 - 130
Toluene	0.100	0.08691		mg/Kg		87	70 - 130
Ethylbenzene	0.100	0.08634		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.2017		mg/Kg		101	70 - 130
o-Xylene	0.100	0.1019		mg/Kg		102	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: LCSD 880-22004/2-A

Matrix: Solid

Analysis Batch: 22110

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22004

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09033		mg/Kg		90	70 - 130	3	35

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

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

Lab Sample ID: LCSD 880-22004/2-A

Matrix: Solid

Analysis Batch: 22110

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22004

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.08751		mg/Kg		88	70 - 130	1	35
Ethylbenzene	0.100	0.08792		mg/Kg		88	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.2047		mg/Kg		102	70 - 130	1	35
o-Xylene	0.100	0.1016		mg/Kg		102	70 - 130	0	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-21661/1-A

Matrix: Solid

Analysis Batch: 21675

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21661

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/15/22 15:59	03/16/22 11:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/15/22 15:59	03/16/22 11:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/15/22 15:59	03/16/22 11:01	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	03/15/22 15:59	03/16/22 11:01	1
o-Terphenyl	126		70 - 130	03/15/22 15:59	03/16/22 11:01	1

Lab Sample ID: LCS 880-21661/2-A

Matrix: Solid

Analysis Batch: 21675

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1020		mg/Kg		102	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1216		mg/Kg		122	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	128		70 - 130
o-Terphenyl	130		70 - 130

Lab Sample ID: LCSD 880-21661/3-A

Matrix: Solid

Analysis Batch: 21675

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21661

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	822.8	*1	mg/Kg		82	70 - 130	21	20
Diesel Range Organics (Over C10-C28)	1000	1037		mg/Kg		104	70 - 130	16	20

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

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

Lab Sample ID: LCSD 880-21661/3-A

Matrix: Solid

Analysis Batch: 21675

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21661

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	106		70 - 130

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-47209/1-A

Matrix: Solid

Analysis Batch: 47133

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47209

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<10.0	U	10.0		mg/Kg		03/31/22 18:29	03/31/22 22:15	1	

Lab Sample ID: MB 860-47209/28-A

Matrix: Solid

Analysis Batch: 47133

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47209

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<10.0	U	10.0		mg/Kg		03/31/22 18:29	04/01/22 04:46	1	

Lab Sample ID: LCS 860-47209/29-A

Matrix: Solid

Analysis Batch: 47133

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47209

			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			100	103.3		mg/Kg		103	80 - 120	

Lab Sample ID: LCS 860-47209/2-A

Matrix: Solid

Analysis Batch: 47133

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47209

			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			100	103.3		mg/Kg		103	80 - 120	

Lab Sample ID: LCSD 860-47209/30-A

Matrix: Solid

Analysis Batch: 47133

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47209

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			100	97.24		mg/Kg		97	80 - 120	6	20

Lab Sample ID: LCSD 860-47209/3-A

Matrix: Solid

Analysis Batch: 47133

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47209

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			100	97.22		mg/Kg		97	80 - 120	6	20

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-12436-5 MS

Matrix: Solid

Analysis Batch: 47133

Client Sample ID: SS-8

Prep Type: Total/NA

Prep Batch: 47209

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3570		99.6	3712	4	mg/Kg		140	80 - 120

Lab Sample ID: 880-12436-5 MSD

Matrix: Solid

Analysis Batch: 47133

Client Sample ID: SS-8

Prep Type: Total/NA

Prep Batch: 47209

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	3570		99.8	3723	4	mg/Kg		150	80 - 120	0	20

## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

## GC VOA

## Prep Batch: 21824

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-21824/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 22004

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12436-9	SS-15	Total/NA	Solid	5035	
MB 880-22004/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22004/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22004/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 22110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12436-9	SS-15	Total/NA	Solid	8021B	22004
MB 880-21824/5-A	Method Blank	Total/NA	Solid	8021B	21824
MB 880-22004/5-A	Method Blank	Total/NA	Solid	8021B	22004
LCS 880-22004/1-A	Lab Control Sample	Total/NA	Solid	8021B	22004
LCSD 880-22004/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22004

## Analysis Batch: 22217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12436-9	SS-15	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 21661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12436-1	SS-3	Total/NA	Solid	8015NM Prep	
880-12436-2	SS-4	Total/NA	Solid	8015NM Prep	
880-12436-3	SS-6	Total/NA	Solid	8015NM Prep	
880-12436-4	SS-7	Total/NA	Solid	8015NM Prep	
880-12436-5	SS-8	Total/NA	Solid	8015NM Prep	
880-12436-6	SS-9	Total/NA	Solid	8015NM Prep	
880-12436-7	SS-11	Total/NA	Solid	8015NM Prep	
880-12436-9	SS-15	Total/NA	Solid	8015NM Prep	
MB 880-21661/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-21661/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-21661/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 21675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12436-1	SS-3	Total/NA	Solid	8015B NM	21661
880-12436-2	SS-4	Total/NA	Solid	8015B NM	21661
880-12436-3	SS-6	Total/NA	Solid	8015B NM	21661
880-12436-4	SS-7	Total/NA	Solid	8015B NM	21661
880-12436-5	SS-8	Total/NA	Solid	8015B NM	21661
880-12436-6	SS-9	Total/NA	Solid	8015B NM	21661
880-12436-7	SS-11	Total/NA	Solid	8015B NM	21661
880-12436-9	SS-15	Total/NA	Solid	8015B NM	21661
MB 880-21661/1-A	Method Blank	Total/NA	Solid	8015B NM	21661
LCS 880-21661/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	21661
LCSD 880-21661/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	21661

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## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

## GC Semi VOA

## Analysis Batch: 21762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12436-1	SS-3	Total/NA	Solid	8015 NM	
880-12436-2	SS-4	Total/NA	Solid	8015 NM	
880-12436-3	SS-6	Total/NA	Solid	8015 NM	
880-12436-4	SS-7	Total/NA	Solid	8015 NM	
880-12436-5	SS-8	Total/NA	Solid	8015 NM	
880-12436-6	SS-9	Total/NA	Solid	8015 NM	
880-12436-7	SS-11	Total/NA	Solid	8015 NM	
880-12436-9	SS-15	Total/NA	Solid	8015 NM	

## HPLC/IC

## Analysis Batch: 47133

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12436-1 - DL	SS-3	Total/NA	Solid	300.0	47209
880-12436-2 - DL	SS-4	Total/NA	Solid	300.0	47209
880-12436-4	SS-7	Total/NA	Solid	300.0	47209
880-12436-5	SS-8	Total/NA	Solid	300.0	47209
880-12436-6	SS-9	Total/NA	Solid	300.0	47209
880-12436-7	SS-11	Total/NA	Solid	300.0	47209
880-12436-8	SS-12	Total/NA	Solid	300.0	47209
880-12436-10 - DL	SS-22	Total/NA	Solid	300.0	47209
MB 860-47209/1-A	Method Blank	Total/NA	Solid	300.0	47209
MB 860-47209/28-A	Method Blank	Total/NA	Solid	300.0	47209
LCS 860-47209/29-A	Lab Control Sample	Total/NA	Solid	300.0	47209
LCS 860-47209/2-A	Lab Control Sample	Total/NA	Solid	300.0	47209
LCSD 860-47209/30-A	Lab Control Sample Dup	Total/NA	Solid	300.0	47209
LCSD 860-47209/3-A	Lab Control Sample Dup	Total/NA	Solid	300.0	47209
880-12436-5 MS	SS-8	Total/NA	Solid	300.0	47209
880-12436-5 MSD	SS-8	Total/NA	Solid	300.0	47209

## Prep Batch: 47209

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12436-1 - DL	SS-3	Total/NA	Solid	300_Prep	
880-12436-2 - DL	SS-4	Total/NA	Solid	300_Prep	
880-12436-4	SS-7	Total/NA	Solid	300_Prep	
880-12436-5	SS-8	Total/NA	Solid	300_Prep	
880-12436-6	SS-9	Total/NA	Solid	300_Prep	
880-12436-7	SS-11	Total/NA	Solid	300_Prep	
880-12436-8	SS-12	Total/NA	Solid	300_Prep	
880-12436-10 - DL	SS-22	Total/NA	Solid	300_Prep	
MB 860-47209/1-A	Method Blank	Total/NA	Solid	300_Prep	
MB 860-47209/28-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-47209/29-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCS 860-47209/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-47209/30-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
LCSD 860-47209/3-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
880-12436-5 MS	SS-8	Total/NA	Solid	300_Prep	
880-12436-5 MSD	SS-8	Total/NA	Solid	300_Prep	

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## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

## Client Sample ID: SS-3

## Lab Sample ID: 880-12436-1

Date Collected: 03/14/22 13:40

Matrix: Solid

Date Received: 03/15/22 13:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21762	03/17/22 08:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	21661	03/15/22 15:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21675	03/16/22 13:24	AJ	XEN MID
Total/NA	Prep	300_Prep	DL		4.97 g	50 mL	47209	03/31/22 18:29	ANP	XEN STF
Total/NA	Analysis	300.0	DL	100			47133	04/01/22 00:01	WP	XEN STF

## Client Sample ID: SS-4

## Lab Sample ID: 880-12436-2

Date Collected: 03/14/22 13:45

Matrix: Solid

Date Received: 03/15/22 13:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21762	03/17/22 08:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21661	03/15/22 15:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21675	03/16/22 13:44	AJ	XEN MID
Total/NA	Prep	300_Prep	DL		4.91 g	50 mL	47209	03/31/22 18:29	ANP	XEN STF
Total/NA	Analysis	300.0	DL	10			47133	04/01/22 00:37	WP	XEN STF

## Client Sample ID: SS-6

## Lab Sample ID: 880-12436-3

Date Collected: 03/14/22 13:50

Matrix: Solid

Date Received: 03/15/22 13:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21762	03/17/22 08:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21661	03/15/22 15:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21675	03/16/22 14:05	AJ	XEN MID

## Client Sample ID: SS-7

## Lab Sample ID: 880-12436-4

Date Collected: 03/14/22 13:55

Matrix: Solid

Date Received: 03/15/22 13:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21762	03/17/22 08:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	21661	03/15/22 15:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21675	03/16/22 14:25	AJ	XEN MID
Total/NA	Prep	300_Prep			4.92 g	50 mL	47209	03/31/22 18:29	ANP	XEN STF
Total/NA	Analysis	300.0		10			47133	04/01/22 10:53	WP	XEN STF

## Client Sample ID: SS-8

## Lab Sample ID: 880-12436-5

Date Collected: 03/14/22 14:00

Matrix: Solid

Date Received: 03/15/22 13:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21762	03/17/22 08:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21661	03/15/22 15:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21675	03/16/22 14:46	AJ	XEN MID

Eurofins Midland

## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

## Client Sample ID: SS-8

## Lab Sample ID: 880-12436-5

Date Collected: 03/14/22 14:00

Matrix: Solid

Date Received: 03/15/22 13:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.98 g	50 mL	47209	03/31/22 18:29	ANP	XEN STF
Total/NA	Analysis	300.0		1			47133	04/01/22 01:25	WP	XEN STF

## Client Sample ID: SS-9

## Lab Sample ID: 880-12436-6

Date Collected: 03/14/22 14:05

Matrix: Solid

Date Received: 03/15/22 13:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21762	03/17/22 08:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21661	03/15/22 15:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21675	03/16/22 15:06	AJ	XEN MID
Total/NA	Prep	300_Prep			5.08 g	50 mL	47209	03/31/22 18:29	ANP	XEN STF
Total/NA	Analysis	300.0		1			47133	04/01/22 02:00	WP	XEN STF

## Client Sample ID: SS-11

## Lab Sample ID: 880-12436-7

Date Collected: 03/14/22 14:10

Matrix: Solid

Date Received: 03/15/22 13:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			21762	03/17/22 08:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	21661	03/15/22 15:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21675	03/16/22 15:27	AJ	XEN MID
Total/NA	Prep	300_Prep			5.09 g	50 mL	47209	03/31/22 18:29	ANP	XEN STF
Total/NA	Analysis	300.0		1			47133	04/01/22 02:12	WP	XEN STF

## Client Sample ID: SS-12

## Lab Sample ID: 880-12436-8

Date Collected: 03/14/22 14:15

Matrix: Solid

Date Received: 03/15/22 13:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep			4.92 g	50 mL	47209	03/31/22 18:29	ANP	XEN STF
Total/NA	Analysis	300.0		1			47133	04/01/22 02:24	WP	XEN STF

## Client Sample ID: SS-15

## Lab Sample ID: 880-12436-9

Date Collected: 03/14/22 14:20

Matrix: Solid

Date Received: 03/15/22 13:21

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	22004	03/21/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	22110	03/23/22 04:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22217	03/23/22 14:31	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21762	03/17/22 08:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21661	03/15/22 15:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21675	03/16/22 15:48	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

Client Sample ID: SS-22  
Date Collected: 03/14/22 14:25  
Date Received: 03/15/22 13:21

Lab Sample ID: 880-12436-10  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	300_Prep	DL		4.97 g	50 mL	47209	03/31/22 18:29	ANP	XEN STF
Total/NA	Analysis	300.0	DL	10			47133	04/01/22 02:59	WP	XEN STF

Laboratory References:

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

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

## Accreditation/Certification Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

### Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

### Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	2021-168	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	06-30-22
USDA	US Federal Programs	P330-22-00025	03-02-23

## Method Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN STF
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID

**Protocol References:**

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

**Laboratory References:**

XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440  
XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

## Sample Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-12436-1  
SDG: Lea Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-12436-1	SS-3	Solid	03/14/22 13:40	03/15/22 13:21	4.5'
880-12436-2	SS-4	Solid	03/14/22 13:45	03/15/22 13:21	4.5'
880-12436-3	SS-6	Solid	03/14/22 13:50	03/15/22 13:21	4.5'
880-12436-4	SS-7	Solid	03/14/22 13:55	03/15/22 13:21	4.5'
880-12436-5	SS-8	Solid	03/14/22 14:00	03/15/22 13:21	4.5'
880-12436-6	SS-9	Solid	03/14/22 14:05	03/15/22 13:21	4.5'
880-12436-7	SS-11	Solid	03/14/22 14:10	03/15/22 13:21	4.5'
880-12436-8	SS-12	Solid	03/14/22 14:15	03/15/22 13:21	4.5'
880-12436-9	SS-15	Solid	03/14/22 14:20	03/15/22 13:21	1.5'
880-12436-10	SS-22	Solid	03/14/22 14:25	03/15/22 13:21	4.5'





# Environment Testing Xenco

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

## Chain of Custody



880-12436 Chain of Custody

www.xenco.com Page 1 of 1

Project Manager:	Lindy Cain	Bill to: (if different)	Ralph Butler
Company Name:	Cain Environmental	Company Name:	Elmer / Sundown
Address:	2925 E. 17th St.	Address:	14200 Dallas Pkwy. Ste. 100
City, State ZIP:	Dallas, TX 75241	City, State ZIP:	Dallas, TX 75248
Phone:	(575) 441-7244	Email:	Lindy.Cain@gmail.com

Project Name:	Borbi State WF Unit # 003	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush
Project Number:	—	Due Date:	
Project Location:	Lea Co. NM	TAT starts the day received by the lab, if received by 4:30pm	
Sample's Name:	Lindy Cain		
PO #	—		

SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Parameters	ANALYSIS REQUEST	
Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	—					
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	—					
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading	3.5					
Total Containers:	—	Corrected Temperature:	3.4					

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	TPH 8015M	BTEX	Chlorides	Preservative Codes	Sample Comments
SS-3	S	3/14/22	1340	4.5'	C	1					202
SS-4			1345	4.5'							
SS-6			1350	4.5'							
SS-7			1355	4.5'							
SS-8			1400	4.5'							
SS-9			1405	4.5'							
SS-11			1410	4.5'							
SS-12			1415	4.5'							
SS-15			1420	1.5'							
SS-22			1425	4.5'							

Total 200.7 / 6010	200.8 / 6020:	8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SIO <sub>2</sub> Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
Lindy Cain	Ralph Butler	3/15/22			
		13.21			

**Eurofins Midland**  
 1211 W Florida Ave  
 Midland, TX 79701  
 Phone: 432-704-5440

Temp: **16.8** ID: HOU-323  
 C/F +0.2  
 Corrected Temp: **17.0**

## Chain of Custody Record



7ms  
 Environment Testing  
 America

880-12436 Chain of Custody

<b>Client Information (Sub Contract Lab)</b>		Sampler	Lab P/N:	DOC No:
Client Contact:	Phone:	Kramer Jessica	880-4091 1	
Shipping/Receiving	Company:	Jessica.Kramer@eurofins.com	State of Origin:	Page: 1 of 1
Eurofins Environment Testing South Cent	Address:	Accreditations Required (See note):	Texas	Page 1 of 1
4145 Greenbriar Dr	Due Date Requested:	NEAP Texas		Job #:
Starford	3/21/2022			880-12436-1
State Zip	TAT Requested (days):	<b>Analysis Requested</b>		
TX 77477				
Phone:	PO #:			
281-240-4200(Te)	WO #:			
Email:	Project #:			
	88000658			
Project Name:	SSOWF:			
Bobbi State WF Unit #003				
Site:				
		300_ORGFM_28D/300_Prep Chloride		
<b>Sample Identification Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=Comp, G=grab)</b>
SS-3 (880-12436-1)	3/14/22	13:40	Central	Solid
SS-4 (880-12436-2)	3/14/22	13:45	Central	Solid
SS-7 (880-12436-4)	3/14/22	13:55	Central	Solid
SS-8 (880-12436-5)	3/14/22	14:00	Central	Solid
SS-9 (880-12436-6)	3/14/22	14:05	Central	Solid
SS-11 (880-12436-7)	3/14/22	14:10	Central	Solid
SS-12 (880-12436-8)	3/14/22	14:15	Central	Solid
SS-22 (880-12436-10)	3/14/22	14:25	Central	Solid
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analysis &amp; accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/assessments being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.</p>				
<b>Possible Hazard Identification</b>				
<p>Unconfirmed          Deliverable Requested: I II III IV Other (specify) _____ Primary Deliverable Rank: 2          Empty Kit Relinquished by: _____ Date: _____ Time: _____          Relinquished by: <i>Stefanie Rodriguez</i> Date/Time: _____ Company: _____          Relinquished by: _____ Date/Time: _____ Company: _____          Relinquished by: _____ Date/Time: _____ Company: _____          Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No. _____          Cooler Temperature(s) °C and Other Remarks: _____</p>				
<p><b>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</b>  <input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months          Special Instructions/OC Requirements: _____</p>				
<p><b>Special Instructions/Note:</b>          A. HCL M. Hexane          B. NaOH N. Nere          C. Zn Acetate O. AsH2O2          D. Nitric Acid P. Na2CO3          E. NaHSO4 Q. Na2SO3          F. MeOH R. Na2S2O3          G. Ammonia S. H2SO4          H. Ascorbic Acid T. TSP Dodecylhydrate          I. Ice U. Acetone          J. DI Water V. MCAA          K. EDTA W. pH 4.5          L. EDA Z. other (specify)          Other _____</p>				

## Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-12436-1

SDG Number: Lea Co. NM

Login Number: 12436

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

## Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-12436-1

SDG Number: Lea Co. NM

Login Number: 12436

List Number: 2

Creator: Torres, Sandra

List Source: Eurofins Houston

List Creation: 03/26/22 12:39 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	False	Refer to Job Narrative for details.
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	17.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-15702-1

Laboratory Sample Delivery Group: Lea Co. NM  
Client Project/Site: Bobbi State WF Unit #3  
Revision: 1

**For:**

Crain Environmental  
2925 E. 17th St.  
Odessa, Texas 79761

Attn: Cindy Crain

Authorized for release by:

6/20/2022 3:18:41 PM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Laboratory Job ID: 880-15702-1  
SDG: Lea Co. NM

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## Definitions/Glossary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



## Case Narrative

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

**Job ID: 880-15702-1**

**Laboratory: Eurofins Midland**

### Narrative

**Job Narrative**  
**880-15702-1**

### REVISION

The report being provided is a revision of the original report sent on 6/20/2022. The report (revision 1) is being revised due to Per client email, requesting sample ID change from SS-5 (5') to SS-3 (5').

Report revision history

### Receipt

The samples were received on 6/9/2022 3:09 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C

### GC VOA

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

### GC Semi VOA

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

### HPLC/IC

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

## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

Client Sample ID: SS-1 (2.5')

Lab Sample ID: 880-15702-1

Date Collected: 06/08/22 10:40

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 2.5'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1170		4.99		mg/Kg			06/18/22 01:36	1

Client Sample ID: SS-3 (2.5')

Lab Sample ID: 880-15702-2

Date Collected: 06/08/22 10:05

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 2.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/13/22 09:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 02:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 02:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 02:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				06/10/22 08:24	06/12/22 02:40	1
o-Terphenyl	92		70 - 130				06/10/22 08:24	06/12/22 02:40	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1540		24.9		mg/Kg			06/18/22 01:45	5

Client Sample ID: SS-3 (5')

Lab Sample ID: 880-15702-3

Date Collected: 06/08/22 10:45

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 5'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	856		24.8		mg/Kg			06/18/22 01:54	5

Client Sample ID: SS-4 (2.5')

Lab Sample ID: 880-15702-4

Date Collected: 06/08/22 11:00

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 2.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/13/22 09:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 03:00	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 03:00	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 03:00	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

Client Sample ID: SS-4 (2.5')

Lab Sample ID: 880-15702-4

Date Collected: 06/08/22 11:00

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 2.5'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	06/10/22 08:24	06/12/22 03:00	1
o-Terphenyl	93		70 - 130	06/10/22 08:24	06/12/22 03:00	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8820		99.0		mg/Kg			06/18/22 02:22	20

Client Sample ID: SS-5 (5')

Lab Sample ID: 880-15702-5

Date Collected: 06/08/22 10:00

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/13/22 09:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/12/22 03:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/12/22 03:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/12/22 03:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130	06/10/22 08:24	06/12/22 03:21	1
o-Terphenyl	98		70 - 130	06/10/22 08:24	06/12/22 03:21	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4480		50.5		mg/Kg			06/18/22 02:31	10

Client Sample ID: SS-8 (2.5')

Lab Sample ID: 880-15702-6

Date Collected: 06/08/22 10:20

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 2.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/13/22 09:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/12/22 03:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/12/22 03:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/12/22 03:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	06/10/22 08:24	06/12/22 03:41	1
o-Terphenyl	106		70 - 130	06/10/22 08:24	06/12/22 03:41	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

Client Sample ID: SS-8 (2.5')

Lab Sample ID: 880-15702-6

Date Collected: 06/08/22 10:20

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 2.5'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2050		25.0		mg/Kg			06/18/22 02:40	5

Client Sample ID: SS-21 (2.5')

Lab Sample ID: 880-15702-7

Date Collected: 06/08/22 10:15

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 2.5'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300		25.0		mg/Kg			06/18/22 02:49	5

Client Sample ID: SS-22 (2.5')

Lab Sample ID: 880-15702-8

Date Collected: 06/08/22 10:10

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 2.5'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	480		4.99		mg/Kg			06/18/22 02:58	1

Client Sample ID: SS-22 (4.5')

Lab Sample ID: 880-15702-9

Date Collected: 06/08/22 10:30

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 4.5'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	345		5.00		mg/Kg			06/18/22 03:08	1

Client Sample ID: SS-23 (2.5')

Lab Sample ID: 880-15702-10

Date Collected: 06/08/22 10:25

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 2.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 05:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 05:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 05:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/14/22 11:32	06/15/22 05:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 05:25	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/14/22 11:32	06/15/22 05:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130	06/14/22 11:32	06/15/22 05:25	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/14/22 11:32	06/15/22 05:25	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/15/22 09:34	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

Client Sample ID: SS-23 (2.5')

Lab Sample ID: 880-15702-10

Date Collected: 06/08/22 10:25

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 2.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/13/22 09:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 04:01	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 04:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/10/22 08:24	06/12/22 04:01	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130				06/10/22 08:24	06/12/22 04:01	1
o-Terphenyl	99		70 - 130				06/10/22 08:24	06/12/22 04:01	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1780		24.8		mg/Kg			06/18/22 03:35	5

Client Sample ID: SS-23 (4.5')

Lab Sample ID: 880-15702-11

Date Collected: 06/08/22 10:35

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		06/14/22 11:32	06/15/22 05:45	1
Toluene	<0.00198	U	0.00198		mg/Kg		06/14/22 11:32	06/15/22 05:45	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		06/14/22 11:32	06/15/22 05:45	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		06/14/22 11:32	06/15/22 05:45	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		06/14/22 11:32	06/15/22 05:45	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		06/14/22 11:32	06/15/22 05:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130				06/14/22 11:32	06/15/22 05:45	1
1,4-Difluorobenzene (Surr)	86		70 - 130				06/14/22 11:32	06/15/22 05:45	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			06/15/22 09:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/13/22 09:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/12/22 04:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/12/22 04:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/12/22 04:21	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

Client Sample ID: SS-23 (4.5')

Lab Sample ID: 880-15702-11

Date Collected: 06/08/22 10:35

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 4.5'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	06/10/22 08:24	06/12/22 04:21	1
o-Terphenyl	95		70 - 130	06/10/22 08:24	06/12/22 04:21	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10900		100		mg/Kg			06/18/22 03:44	20

Client Sample ID: SS-24 (2.5')

Lab Sample ID: 880-15702-12

Date Collected: 06/08/22 10:50

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 2.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 06:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 06:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 06:06	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		06/14/22 11:32	06/15/22 06:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 06:06	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		06/14/22 11:32	06/15/22 06:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		70 - 130				06/14/22 11:32	06/15/22 06:06	1
1,4-Difluorobenzene (Surr)	85		70 - 130				06/14/22 11:32	06/15/22 06:06	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			06/15/22 09:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/13/22 09:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/12/22 04:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/12/22 04:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/12/22 04:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130				06/10/22 08:24	06/12/22 04:41	1
o-Terphenyl	89		70 - 130				06/10/22 08:24	06/12/22 04:41	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	870		24.8		mg/Kg			06/18/22 04:12	5

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

Client Sample ID: SS-24 (4.5')

Lab Sample ID: 880-15702-13

Date Collected: 06/08/22 10:55

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 06:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 06:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 06:26	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		06/14/22 11:32	06/15/22 06:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 06:26	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		06/14/22 11:32	06/15/22 06:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	06/14/22 11:32	06/15/22 06:26	1
1,4-Difluorobenzene (Surr)	99		70 - 130	06/14/22 11:32	06/15/22 06:26	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			06/15/22 09:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	287		50.0		mg/Kg			06/13/22 09:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/12/22 05:22	1
Diesel Range Organics (Over C10-C28)	206		50.0		mg/Kg		06/10/22 08:24	06/12/22 05:22	1
Oil Range Organics (Over C28-C36)	81.3		50.0		mg/Kg		06/10/22 08:24	06/12/22 05:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	06/10/22 08:24	06/12/22 05:22	1
o-Terphenyl	100		70 - 130	06/10/22 08:24	06/12/22 05:22	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3670		24.9		mg/Kg			06/18/22 04:22	5

Client Sample ID: SS-25 (4.5')

Lab Sample ID: 880-15702-14

Date Collected: 06/08/22 11:05

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		06/14/22 11:32	06/15/22 06:47	1
Toluene	<0.00199	U	0.00199		mg/Kg		06/14/22 11:32	06/15/22 06:47	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		06/14/22 11:32	06/15/22 06:47	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		06/14/22 11:32	06/15/22 06:47	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		06/14/22 11:32	06/15/22 06:47	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		06/14/22 11:32	06/15/22 06:47	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

Client Sample ID: SS-25 (4.5')

Lab Sample ID: 880-15702-14

Date Collected: 06/08/22 11:05

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 4.5'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	06/14/22 11:32	06/15/22 06:47	1
1,4-Difluorobenzene (Surr)	97		70 - 130	06/14/22 11:32	06/15/22 06:47	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			06/15/22 09:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/13/22 09:04	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/10/22 11:13	06/11/22 04:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/10/22 11:13	06/11/22 04:10	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/10/22 11:13	06/11/22 04:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	06/10/22 11:13	06/11/22 04:10	1
o-Terphenyl	92		70 - 130	06/10/22 11:13	06/11/22 04:10	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	424		4.96		mg/Kg			06/18/22 04:31	1

Client Sample ID: SS-26 (4.5')

Lab Sample ID: 880-15702-15

Date Collected: 06/08/22 11:10

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		06/14/22 11:32	06/15/22 07:07	1
Toluene	<0.00201	U	0.00201		mg/Kg		06/14/22 11:32	06/15/22 07:07	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		06/14/22 11:32	06/15/22 07:07	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		06/14/22 11:32	06/15/22 07:07	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		06/14/22 11:32	06/15/22 07:07	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		06/14/22 11:32	06/15/22 07:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130	06/14/22 11:32	06/15/22 07:07	1
1,4-Difluorobenzene (Surr)	95		70 - 130	06/14/22 11:32	06/15/22 07:07	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			06/15/22 09:34	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/13/22 09:04	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

Client Sample ID: SS-26 (4.5')

Lab Sample ID: 880-15702-15

Date Collected: 06/08/22 11:10

Matrix: Solid

Date Received: 06/09/22 15:09

Sample Depth: 4.5'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/11/22 04:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/11/22 04:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/11/22 04:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130				06/10/22 11:13	06/11/22 04:32	1
o-Terphenyl	100		70 - 130				06/10/22 11:13	06/11/22 04:32	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2460		25.3		mg/Kg			06/18/22 04:40	5

# Surrogate Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

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

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-15702-10	SS-23 (2.5')	115	95
880-15702-11	SS-23 (4.5')	99	86
880-15702-12	SS-24 (2.5')	93	85
880-15702-13	SS-24 (4.5')	114	99
880-15702-14	SS-25 (4.5')	116	97
880-15702-15	SS-26 (4.5')	111	95
LCS 880-27499/1-A	Lab Control Sample	107	102
LCSD 880-27499/2-A	Lab Control Sample Dup	107	100
MB 880-27492/5-A	Method Blank	101	91
MB 880-27499/5-A	Method Blank	101	91

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-15702-2	SS-3 (2.5')	87	92
880-15702-4	SS-4 (2.5')	85	93
880-15702-5	SS-5 (5')	88	98
880-15702-6	SS-8 (2.5')	97	106
880-15702-10	SS-23 (2.5')	89	99
880-15702-11	SS-23 (4.5')	87	95
880-15702-12	SS-24 (2.5')	84	89
880-15702-13	SS-24 (4.5')	93	100
880-15702-14	SS-25 (4.5')	85	92
880-15702-15	SS-26 (4.5')	92	100
LCS 880-27248/2-A	Lab Control Sample	99	104
LCS 880-27293/2-A	Lab Control Sample	100	108
LCSD 880-27248/3-A	Lab Control Sample Dup	93	96
LCSD 880-27293/3-A	Lab Control Sample Dup	100	111
MB 880-27248/1-A	Method Blank	91	102
MB 880-27293/1-A	Method Blank	93	102

### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

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

Lab Sample ID: MB 880-27492/5-A

Matrix: Solid

Analysis Batch: 27512

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27492

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/14/22 10:17	06/14/22 16:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/14/22 10:17	06/14/22 16:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/14/22 10:17	06/14/22 16:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/14/22 10:17	06/14/22 16:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/14/22 10:17	06/14/22 16:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/14/22 10:17	06/14/22 16:13	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/14/22 10:17	06/14/22 16:13	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/14/22 10:17	06/14/22 16:13	1

Lab Sample ID: MB 880-27499/5-A

Matrix: Solid

Analysis Batch: 27512

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27499

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 03:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 03:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 03:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		06/14/22 11:32	06/15/22 03:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		06/14/22 11:32	06/15/22 03:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		06/14/22 11:32	06/15/22 03:41	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	06/14/22 11:32	06/15/22 03:41	1
1,4-Difluorobenzene (Surr)	91		70 - 130	06/14/22 11:32	06/15/22 03:41	1

Lab Sample ID: LCS 880-27499/1-A

Matrix: Solid

Analysis Batch: 27512

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27499

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1014		mg/Kg		101	70 - 130
Toluene	0.100	0.09772		mg/Kg		98	70 - 130
Ethylbenzene	0.100	0.1021		mg/Kg		102	70 - 130
m-Xylene & p-Xylene	0.200	0.2037		mg/Kg		102	70 - 130
o-Xylene	0.100	0.1029		mg/Kg		103	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-27499/2-A

Matrix: Solid

Analysis Batch: 27512

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 27499

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1084		mg/Kg		108	70 - 130	7	35

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

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

Lab Sample ID: LCSD 880-27499/2-A

Matrix: Solid

Analysis Batch: 27512

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 27499

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.1050		mg/Kg		105	70 - 130	7	35
Ethylbenzene	0.100	0.1109		mg/Kg		111	70 - 130	8	35
m-Xylene & p-Xylene	0.200	0.2208		mg/Kg		110	70 - 130	8	35
o-Xylene	0.100	0.1121		mg/Kg		112	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-27248/1-A

Matrix: Solid

Analysis Batch: 27332

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/11/22 20:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/11/22 20:47	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/22 08:24	06/11/22 20:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	06/10/22 08:24	06/11/22 20:47	1
o-Terphenyl	102		70 - 130	06/10/22 08:24	06/11/22 20:47	1

Lab Sample ID: LCS 880-27248/2-A

Matrix: Solid

Analysis Batch: 27332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1011		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1113		mg/Kg		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	104		70 - 130

Lab Sample ID: LCSD 880-27248/3-A

Matrix: Solid

Analysis Batch: 27332

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 27248

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	938.2		mg/Kg		94	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	1000	1062		mg/Kg		106	70 - 130	5	20

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

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

Lab Sample ID: LCSD 880-27248/3-A

Matrix: Solid

Analysis Batch: 27332

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 27248

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: MB 880-27293/1-A

Matrix: Solid

Analysis Batch: 27237

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 27293

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/10/22 20:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/10/22 20:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/10/22 11:13	06/10/22 20:04	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	06/10/22 11:13	06/10/22 20:04	1
o-Terphenyl	102		70 - 130	06/10/22 11:13	06/10/22 20:04	1

Lab Sample ID: LCS 880-27293/2-A

Matrix: Solid

Analysis Batch: 27237

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 27293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1158		mg/Kg		116	70 - 130
Diesel Range Organics (Over C10-C28)	1000	866.5		mg/Kg		87	70 - 130

Surrogate	LCS	LCS	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: LCSD 880-27293/3-A

Matrix: Solid

Analysis Batch: 27237

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 27293

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1167		mg/Kg		117	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	881.5		mg/Kg		88	70 - 130	2	20

Surrogate	LCSD	LCSD	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	111		70 - 130

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-27516/1-A

Matrix: Solid

Analysis Batch: 27728

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/18/22 00:31	1

Lab Sample ID: LCS 880-27516/2-A

Matrix: Solid

Analysis Batch: 27728

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	271.8		mg/Kg		109	90 - 110

Lab Sample ID: LCSD 880-27516/3-A

Matrix: Solid

Analysis Batch: 27728

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	274.4		mg/Kg		110	90 - 110	1	20

Lab Sample ID: 880-15702-9 MS

Matrix: Solid

Analysis Batch: 27728

Client Sample ID: SS-22 (4.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	345		250	597.5		mg/Kg		101	90 - 110

Lab Sample ID: 880-15702-9 MSD

Matrix: Solid

Analysis Batch: 27728

Client Sample ID: SS-22 (4.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	345		250	598.1		mg/Kg		101	90 - 110	0	20

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## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

## GC VOA

## Prep Batch: 27492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-27492/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 27499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15702-10	SS-23 (2.5')	Total/NA	Solid	5035	
880-15702-11	SS-23 (4.5')	Total/NA	Solid	5035	
880-15702-12	SS-24 (2.5')	Total/NA	Solid	5035	
880-15702-13	SS-24 (4.5')	Total/NA	Solid	5035	
880-15702-14	SS-25 (4.5')	Total/NA	Solid	5035	
880-15702-15	SS-26 (4.5')	Total/NA	Solid	5035	
MB 880-27499/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-27499/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-27499/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 27512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15702-10	SS-23 (2.5')	Total/NA	Solid	8021B	27499
880-15702-11	SS-23 (4.5')	Total/NA	Solid	8021B	27499
880-15702-12	SS-24 (2.5')	Total/NA	Solid	8021B	27499
880-15702-13	SS-24 (4.5')	Total/NA	Solid	8021B	27499
880-15702-14	SS-25 (4.5')	Total/NA	Solid	8021B	27499
880-15702-15	SS-26 (4.5')	Total/NA	Solid	8021B	27499
MB 880-27492/5-A	Method Blank	Total/NA	Solid	8021B	27492
MB 880-27499/5-A	Method Blank	Total/NA	Solid	8021B	27499
LCS 880-27499/1-A	Lab Control Sample	Total/NA	Solid	8021B	27499
LCSD 880-27499/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	27499

## Analysis Batch: 27571

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15702-10	SS-23 (2.5')	Total/NA	Solid	Total BTEX	
880-15702-11	SS-23 (4.5')	Total/NA	Solid	Total BTEX	
880-15702-12	SS-24 (2.5')	Total/NA	Solid	Total BTEX	
880-15702-13	SS-24 (4.5')	Total/NA	Solid	Total BTEX	
880-15702-14	SS-25 (4.5')	Total/NA	Solid	Total BTEX	
880-15702-15	SS-26 (4.5')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 27237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15702-14	SS-25 (4.5')	Total/NA	Solid	8015B NM	27293
880-15702-15	SS-26 (4.5')	Total/NA	Solid	8015B NM	27293
MB 880-27293/1-A	Method Blank	Total/NA	Solid	8015B NM	27293
LCS 880-27293/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27293
LCSD 880-27293/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27293

## Prep Batch: 27248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15702-2	SS-3 (2.5')	Total/NA	Solid	8015NM Prep	
880-15702-4	SS-4 (2.5')	Total/NA	Solid	8015NM Prep	
880-15702-5	SS-5 (5')	Total/NA	Solid	8015NM Prep	

Eurofins Midland

## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

## GC Semi VOA (Continued)

## Prep Batch: 27248 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15702-6	SS-8 (2.5')	Total/NA	Solid	8015NM Prep	
880-15702-10	SS-23 (2.5')	Total/NA	Solid	8015NM Prep	
880-15702-11	SS-23 (4.5')	Total/NA	Solid	8015NM Prep	
880-15702-12	SS-24 (2.5')	Total/NA	Solid	8015NM Prep	
880-15702-13	SS-24 (4.5')	Total/NA	Solid	8015NM Prep	
MB 880-27248/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27248/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27248/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Prep Batch: 27293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15702-14	SS-25 (4.5')	Total/NA	Solid	8015NM Prep	
880-15702-15	SS-26 (4.5')	Total/NA	Solid	8015NM Prep	
MB 880-27293/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-27293/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-27293/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 27332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15702-2	SS-3 (2.5')	Total/NA	Solid	8015B NM	27248
880-15702-4	SS-4 (2.5')	Total/NA	Solid	8015B NM	27248
880-15702-5	SS-5 (5')	Total/NA	Solid	8015B NM	27248
880-15702-6	SS-8 (2.5')	Total/NA	Solid	8015B NM	27248
880-15702-10	SS-23 (2.5')	Total/NA	Solid	8015B NM	27248
880-15702-11	SS-23 (4.5')	Total/NA	Solid	8015B NM	27248
880-15702-12	SS-24 (2.5')	Total/NA	Solid	8015B NM	27248
880-15702-13	SS-24 (4.5')	Total/NA	Solid	8015B NM	27248
MB 880-27248/1-A	Method Blank	Total/NA	Solid	8015B NM	27248
LCS 880-27248/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	27248
LCSD 880-27248/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	27248

## Analysis Batch: 27369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15702-2	SS-3 (2.5')	Total/NA	Solid	8015 NM	
880-15702-4	SS-4 (2.5')	Total/NA	Solid	8015 NM	
880-15702-5	SS-5 (5')	Total/NA	Solid	8015 NM	
880-15702-6	SS-8 (2.5')	Total/NA	Solid	8015 NM	
880-15702-10	SS-23 (2.5')	Total/NA	Solid	8015 NM	
880-15702-11	SS-23 (4.5')	Total/NA	Solid	8015 NM	
880-15702-12	SS-24 (2.5')	Total/NA	Solid	8015 NM	
880-15702-13	SS-24 (4.5')	Total/NA	Solid	8015 NM	
880-15702-14	SS-25 (4.5')	Total/NA	Solid	8015 NM	
880-15702-15	SS-26 (4.5')	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 27516

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15702-1	SS-1 (2.5')	Soluble	Solid	DI Leach	
880-15702-2	SS-3 (2.5')	Soluble	Solid	DI Leach	
880-15702-3	SS-3 (5')	Soluble	Solid	DI Leach	

Eurofins Midland

## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

## HPLC/IC (Continued)

## Leach Batch: 27516 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15702-4	SS-4 (2.5')	Soluble	Solid	DI Leach	
880-15702-5	SS-5 (5')	Soluble	Solid	DI Leach	
880-15702-6	SS-8 (2.5')	Soluble	Solid	DI Leach	
880-15702-7	SS-21 (2.5')	Soluble	Solid	DI Leach	
880-15702-8	SS-22 (2.5')	Soluble	Solid	DI Leach	
880-15702-9	SS-22 (4.5')	Soluble	Solid	DI Leach	
880-15702-10	SS-23 (2.5')	Soluble	Solid	DI Leach	
880-15702-11	SS-23 (4.5')	Soluble	Solid	DI Leach	
880-15702-12	SS-24 (2.5')	Soluble	Solid	DI Leach	
880-15702-13	SS-24 (4.5')	Soluble	Solid	DI Leach	
880-15702-14	SS-25 (4.5')	Soluble	Solid	DI Leach	
880-15702-15	SS-26 (4.5')	Soluble	Solid	DI Leach	
MB 880-27516/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-27516/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-27516/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-15702-9 MS	SS-22 (4.5')	Soluble	Solid	DI Leach	
880-15702-9 MSD	SS-22 (4.5')	Soluble	Solid	DI Leach	

## Analysis Batch: 27728

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-15702-1	SS-1 (2.5')	Soluble	Solid	300.0	27516
880-15702-2	SS-3 (2.5')	Soluble	Solid	300.0	27516
880-15702-3	SS-3 (5')	Soluble	Solid	300.0	27516
880-15702-4	SS-4 (2.5')	Soluble	Solid	300.0	27516
880-15702-5	SS-5 (5')	Soluble	Solid	300.0	27516
880-15702-6	SS-8 (2.5')	Soluble	Solid	300.0	27516
880-15702-7	SS-21 (2.5')	Soluble	Solid	300.0	27516
880-15702-8	SS-22 (2.5')	Soluble	Solid	300.0	27516
880-15702-9	SS-22 (4.5')	Soluble	Solid	300.0	27516
880-15702-10	SS-23 (2.5')	Soluble	Solid	300.0	27516
880-15702-11	SS-23 (4.5')	Soluble	Solid	300.0	27516
880-15702-12	SS-24 (2.5')	Soluble	Solid	300.0	27516
880-15702-13	SS-24 (4.5')	Soluble	Solid	300.0	27516
880-15702-14	SS-25 (4.5')	Soluble	Solid	300.0	27516
880-15702-15	SS-26 (4.5')	Soluble	Solid	300.0	27516
MB 880-27516/1-A	Method Blank	Soluble	Solid	300.0	27516
LCS 880-27516/2-A	Lab Control Sample	Soluble	Solid	300.0	27516
LCSD 880-27516/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	27516
880-15702-9 MS	SS-22 (4.5')	Soluble	Solid	300.0	27516
880-15702-9 MSD	SS-22 (4.5')	Soluble	Solid	300.0	27516

Eurofins Midland

## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

Client Sample ID: SS-1 (2.5')

Lab Sample ID: 880-15702-1

Date Collected: 06/08/22 10:40

Matrix: Solid

Date Received: 06/09/22 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	27516	06/14/22 13:37	SC	XEN MID
Soluble	Analysis	300.0		1			27728	06/18/22 01:36	CH	XEN MID

Client Sample ID: SS-3 (2.5')

Lab Sample ID: 880-15702-2

Date Collected: 06/08/22 10:05

Matrix: Solid

Date Received: 06/09/22 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			27369	06/13/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27248	06/10/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27332	06/12/22 02:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	27516	06/14/22 13:37	SC	XEN MID
Soluble	Analysis	300.0		5			27728	06/18/22 01:45	CH	XEN MID

Client Sample ID: SS-3 (5')

Lab Sample ID: 880-15702-3

Date Collected: 06/08/22 10:45

Matrix: Solid

Date Received: 06/09/22 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	27516	06/14/22 13:37	SC	XEN MID
Soluble	Analysis	300.0		5			27728	06/18/22 01:54	CH	XEN MID

Client Sample ID: SS-4 (2.5')

Lab Sample ID: 880-15702-4

Date Collected: 06/08/22 11:00

Matrix: Solid

Date Received: 06/09/22 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			27369	06/13/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	27248	06/10/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27332	06/12/22 03:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27516	06/14/22 13:37	SC	XEN MID
Soluble	Analysis	300.0		20			27728	06/18/22 02:22	CH	XEN MID

Client Sample ID: SS-5 (5')

Lab Sample ID: 880-15702-5

Date Collected: 06/08/22 10:00

Matrix: Solid

Date Received: 06/09/22 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			27369	06/13/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27248	06/10/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27332	06/12/22 03:21	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	27516	06/14/22 13:37	SC	XEN MID
Soluble	Analysis	300.0		10			27728	06/18/22 02:31	CH	XEN MID

Eurofins Midland

## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

Client Sample ID: SS-8 (2.5')

Lab Sample ID: 880-15702-6

Date Collected: 06/08/22 10:20

Matrix: Solid

Date Received: 06/09/22 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			27369	06/13/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27248	06/10/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27332	06/12/22 03:41	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	27516	06/14/22 13:37	SC	XEN MID
Soluble	Analysis	300.0		5			27728	06/18/22 02:40	CH	XEN MID

Client Sample ID: SS-21 (2.5')

Lab Sample ID: 880-15702-7

Date Collected: 06/08/22 10:15

Matrix: Solid

Date Received: 06/09/22 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	27516	06/14/22 13:37	SC	XEN MID
Soluble	Analysis	300.0		5			27728	06/18/22 02:49	CH	XEN MID

Client Sample ID: SS-22 (2.5')

Lab Sample ID: 880-15702-8

Date Collected: 06/08/22 10:10

Matrix: Solid

Date Received: 06/09/22 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	27516	06/14/22 13:37	SC	XEN MID
Soluble	Analysis	300.0		1			27728	06/18/22 02:58	CH	XEN MID

Client Sample ID: SS-22 (4.5')

Lab Sample ID: 880-15702-9

Date Collected: 06/08/22 10:30

Matrix: Solid

Date Received: 06/09/22 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	27516	06/14/22 13:37	SC	XEN MID
Soluble	Analysis	300.0		1			27728	06/18/22 03:08	CH	XEN MID

Client Sample ID: SS-23 (2.5')

Lab Sample ID: 880-15702-10

Date Collected: 06/08/22 10:25

Matrix: Solid

Date Received: 06/09/22 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	27499	06/14/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 g	5 mL	27512	06/15/22 05:25	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27571	06/15/22 09:34	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27369	06/13/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27248	06/10/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27332	06/12/22 04:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27516	06/14/22 13:37	SC	XEN MID
Soluble	Analysis	300.0		5			27728	06/18/22 03:35	CH	XEN MID

Eurofins Midland

## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

Client Sample ID: SS-23 (4.5')

Lab Sample ID: 880-15702-11

Date Collected: 06/08/22 10:35

Matrix: Solid

Date Received: 06/09/22 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	27499	06/14/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 g	5 mL	27512	06/15/22 05:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27571	06/15/22 09:34	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27369	06/13/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	27248	06/10/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27332	06/12/22 04:21	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	27516	06/14/22 13:37	SC	XEN MID
Soluble	Analysis	300.0		20			27728	06/18/22 03:44	CH	XEN MID

Client Sample ID: SS-24 (2.5')

Lab Sample ID: 880-15702-12

Date Collected: 06/08/22 10:50

Matrix: Solid

Date Received: 06/09/22 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	27499	06/14/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 g	5 mL	27512	06/15/22 06:06	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27571	06/15/22 09:34	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27369	06/13/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27248	06/10/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27332	06/12/22 04:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	27516	06/14/22 13:37	SC	XEN MID
Soluble	Analysis	300.0		5			27728	06/18/22 04:12	CH	XEN MID

Client Sample ID: SS-24 (4.5')

Lab Sample ID: 880-15702-13

Date Collected: 06/08/22 10:55

Matrix: Solid

Date Received: 06/09/22 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	27499	06/14/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 g	5 mL	27512	06/15/22 06:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27571	06/15/22 09:34	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27369	06/13/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27248	06/10/22 08:24	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27332	06/12/22 05:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	27516	06/14/22 13:37	SC	XEN MID
Soluble	Analysis	300.0		5			27728	06/18/22 04:22	CH	XEN MID

Client Sample ID: SS-25 (4.5')

Lab Sample ID: 880-15702-14

Date Collected: 06/08/22 11:05

Matrix: Solid

Date Received: 06/09/22 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	27499	06/14/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 g	5 mL	27512	06/15/22 06:47	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27571	06/15/22 09:34	SM	XEN MID

Eurofins Midland



## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

Client Sample ID: SS-25 (4.5')

Lab Sample ID: 880-15702-14

Date Collected: 06/08/22 11:05

Matrix: Solid

Date Received: 06/09/22 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			27369	06/13/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	27293	06/10/22 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/11/22 04:10	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	27516	06/14/22 13:37	SC	XEN MID
Soluble	Analysis	300.0		1			27728	06/18/22 04:31	CH	XEN MID

Client Sample ID: SS-26 (4.5')

Lab Sample ID: 880-15702-15

Date Collected: 06/08/22 11:10

Matrix: Solid

Date Received: 06/09/22 15:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	27499	06/14/22 11:32	MR	XEN MID
Total/NA	Analysis	8021B		1	5 g	5 mL	27512	06/15/22 07:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			27571	06/15/22 09:34	SM	XEN MID
Total/NA	Analysis	8015 NM		1			27369	06/13/22 09:04	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	27293	06/10/22 11:13	DM	XEN MID
Total/NA	Analysis	8015B NM		1			27237	06/11/22 04:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	27516	06/14/22 13:37	SC	XEN MID
Soluble	Analysis	300.0		5			27728	06/18/22 04:40	CH	XEN MID

## Laboratory References:

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

Eurofins Midland



**Accreditation/Certification Summary**

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

**Laboratory: Eurofins Midland**

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

## Method Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

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

### Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

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

Eurofins Midland

## Sample Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #3

Job ID: 880-15702-1  
SDG: Lea Co. NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-15702-1	SS-1 (2.5')	Solid	06/08/22 10:40	06/09/22 15:09	2.5'
880-15702-2	SS-3 (2.5')	Solid	06/08/22 10:05	06/09/22 15:09	2.5'
880-15702-3	SS-3 (5')	Solid	06/08/22 10:45	06/09/22 15:09	5'
880-15702-4	SS-4 (2.5')	Solid	06/08/22 11:00	06/09/22 15:09	2.5'
880-15702-5	SS-5 (5')	Solid	06/08/22 10:00	06/09/22 15:09	5'
880-15702-6	SS-8 (2.5')	Solid	06/08/22 10:20	06/09/22 15:09	2.5'
880-15702-7	SS-21 (2.5')	Solid	06/08/22 10:15	06/09/22 15:09	2.5'
880-15702-8	SS-22 (2.5')	Solid	06/08/22 10:10	06/09/22 15:09	2.5'
880-15702-9	SS-22 (4.5')	Solid	06/08/22 10:30	06/09/22 15:09	4.5'
880-15702-10	SS-23 (2.5')	Solid	06/08/22 10:25	06/09/22 15:09	2.5'
880-15702-11	SS-23 (4.5')	Solid	06/08/22 10:35	06/09/22 15:09	4.5'
880-15702-12	SS-24 (2.5')	Solid	06/08/22 10:50	06/09/22 15:09	2.5'
880-15702-13	SS-24 (4.5')	Solid	06/08/22 10:55	06/09/22 15:09	4.5'
880-15702-14	SS-25 (4.5')	Solid	06/08/22 11:05	06/09/22 15:09	4.5'
880-15702-15	SS-26 (4.5')	Solid	06/08/22 11:10	06/09/22 15:09	4.5'



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**Environment Testing**  
**Xenco**

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550 Carlsbad NM (575) 988-3199

## Chain of Custody

Work Order No: 15702


www.xenco.com Page 1 of 2

Project Manager	Cindy Crain	Bill to: (if different)	Ralph Butler
Company Name:	Crain Environmental	Company Name:	Elkad / Sundown
Address:	2925 E. 17th St.	Address	16400 Dallas Pkwy Ste. 100
City, State ZIP	Odessa, TX 79761	City, State ZIP	Dallas, TX 75248
Phone	(575) 441-7244	Email	Cindy.Crain@gmail.com

Work Order Comments					
Program:	UST/PST <input type="checkbox"/>	PRP <input type="checkbox"/>	Brownfields <input type="checkbox"/>	RRC <input type="checkbox"/>	Superfund <input type="checkbox"/>
State of Project:	NA				
Reporting Level II	<input type="checkbox"/>	Level III	<input type="checkbox"/>	PST/UST	TRRP
					Level IV <input type="checkbox"/>
Deliverables	EDD <input type="checkbox"/>	Adapt	<input type="checkbox"/>	Other	

ANALYSIS REQUEST						Preservative Codes	
Project Name	Turn Around	Pres. Code					
Project Number:	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush						
Project Location	Due Date:						None NO
Sampler's Name:	TAT starts the day received by the lab, if received by 4:30pm						Cool Cool MeOH Me
P.O. #							HCL HC HNO <sub>3</sub> HN
SAMPLE RECEIPT	Temp Blank:	Yes <input checked="" type="radio"/> No <input type="radio"/>	Wet Ice:	Yes <input checked="" type="radio"/> No <input type="radio"/>			H <sub>2</sub> SO <sub>4</sub> H <sub>2</sub>
Samples Received Intact:	Yes <input checked="" type="radio"/> No <input type="radio"/>	Thermometer ID:					H <sub>3</sub> PO <sub>4</sub> HP
Cooler Custody Seals:	Yes NO N/A	Correction Factor:					NH <sub>4</sub> SO <sub>4</sub> NABIS
Sample Custody Seals:	Yes NO N/A	Temperature Reading					Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub>
Total Containers:	Corrected Temperature:						Zn Acetate+NaOH Zn
							NaOH+Ascorbic Acid SAPC

Sample Identification		Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Ch		TH		BT		Sample Comments	
SS-1	(2.5')	S	6/8/22	1040	2.5'	C	1								
SS-3	(2.5')			1005	2.5'										
SS-3	(5')			1045	5'										
SS-4	(2.5')			1100	2.5'										
SS-5	(5')			1000	5'										
SS-8	(2.5')			1020	2.5'										
SS-21	(2.5')			1015	2.5'										
SS-22	(2.5')			1010	2.5'										
SS-22	(4.5')			1030	4.5'										
SS-23	(2.5')			1025	2.5'										



880-15702 Chain of Custody

880-15702 Chain of Custody



Total 200.7 / 6010		2008 / 6020:		8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn	
Circle Method(s) and Metal(s) to be analyzed		TCLP / SPLP 6010		8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 1 / 7471	
<p>Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.</p>					
Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 <i>Carol L...</i>	<i>[Signature]</i>	4/9/02	2		
3		15:09	4		
5			6		



Environment Testing  
Xerco

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El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

## Chain of Custody

Work Order No: 15102

www.xenco.com Page 2 of 2

Project Manager	Lindy Crain	Bill to: (if different)	Ralph Butler
Company Name	Crain Environmental	Company Name	Elkard / Sundown
Address:	29835 E. 17th St.	Address:	16400 Dallas Pkwy, Ste 100
City, State ZIP	Odessa, TX 79761	City, State ZIP	Dallas, TX 75248
Phone	(575) 441-7244	Email	Lindy.Crain@gmail.com

Work Order Comments					
Program.	UST/PST	PRP	Brownfields	RRC	Superfund
State of Project:	N/A				
Reporting	Level II	Level III	PST/UST	TRRP	Level IV
Deliverables	EDD	ADAPT	Other		

[illegible]

Total 2007/6010	2008/6020:	8RCRA	13PPM	Texas	T1	Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO <sub>2</sub>	Na	Sr	Ti	Sn	U	V	Zn
Circle Method(s) and Metal(s) to be analyzed		TCMP	/SPLP	6010	8RCRA	5b	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Ti	U				Hg	1631	/245.1	/7470	/7471				

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xeno, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xeno will be liable only for the cost of sample(s) and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xeno. A minimum charge of \$85.00 will be applied to each project and a charge of \$3 for each sample submitted to Eurofins Xeno, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 <i>Eric L. ...</i>	<i>[Signature]</i>	6/9/20	2		
3		15:09	4		
5			6		

## Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-15702-1

SDG Number: Lea Co. NM

Login Number: 15702

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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





## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-16321-1

Laboratory Sample Delivery Group: Lea Co,NM  
Client Project/Site: Bobbi State WF Unit #003  
Revision: 1

**For:**

Crain Environmental  
2925 E. 17th St.  
Odessa, Texas 79761

Attn: Cindy Crain

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:

7/5/2022 4:48:21 PM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

Review your project  
results through



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

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



Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Laboratory Job ID: 880-16321-1  
SDG: Lea Co,NM

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## Definitions/Glossary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Case Narrative

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

### Job ID: 880-16321-1

#### Laboratory: Eurofins Midland

##### Narrative

##### Job Narrative 880-16321-1

##### Receipt

The samples were received on 6/27/2022 12:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C

##### GC Semi VOA

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCSD 880-28577/3-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: SS-29 (2') (880-16321-9). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-28577 and analytical batch 880-28522 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

##### HPLC/IC

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

### Job ID: 880-16321-2

#### Laboratory: Eurofins Midland

##### Narrative

##### Job Narrative 880-16321-2

##### Receipt

The samples were received on 6/27/2022 12:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.1°C

##### GC VOA

Method 8021B: Both ethylbenzene and m,p xylene were biased low in the LCSD, since the analyte only requires an LCS or LCSD, the data was qualified and reported.(LCSD 880-28857/2-A)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-28857 and analytical batch 880-28966 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

##### GC Semi VOA

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

## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

## Client Sample ID: SS-1 (2.5')

Date Collected: 06/24/22 09:30

Date Received: 06/27/22 12:55

Sample Depth: 2.5'

## Lab Sample ID: 880-16321-1

Matrix: Solid

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	664		4.99		mg/Kg			07/03/22 08:04	1

## Client Sample ID: SS-2 (6')

Date Collected: 06/24/22 09:45

Date Received: 06/27/22 12:55

Sample Depth: 6'

## Lab Sample ID: 880-16321-2

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	49.9		mg/Kg		06/28/22 16:43	06/29/22 00:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/22 16:43	06/29/22 00:03	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 16:43	06/29/22 00:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130				06/28/22 16:43	06/29/22 00:03	1
o-Terphenyl	105		70 - 130				06/28/22 16:43	06/29/22 00:03	1

## Client Sample ID: SS-8 (2.5')

Date Collected: 06/24/22 09:55

Date Received: 06/27/22 12:55

Sample Depth: 2.5'

## Lab Sample ID: 880-16321-3

Matrix: Solid

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1280		5.04		mg/Kg			07/03/22 08:12	1

## Client Sample ID: SS-21 (2.5')

Date Collected: 06/24/22 10:00

Date Received: 06/27/22 12:55

Sample Depth: 2'5

## Lab Sample ID: 880-16321-4

Matrix: Solid

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	207		4.98		mg/Kg			06/30/22 10:48	1

## Client Sample ID: SS-23 (2.5')

Date Collected: 06/24/22 10:10

Date Received: 06/27/22 12:55

Sample Depth: 2.5'

## Lab Sample ID: 880-16321-5

Matrix: Solid

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	695		25.3		mg/Kg			07/03/22 08:20	5

Eurofins Midland

## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

Client Sample ID: SS-27 (2')

Lab Sample ID: 880-16321-6

Date Collected: 06/24/22 10:15

Matrix: Solid

Date Received: 06/27/22 12:55

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		07/01/22 12:30	07/05/22 00:55	1
Toluene	<0.00198	U	0.00198		mg/Kg		07/01/22 12:30	07/05/22 00:55	1
Ethylbenzene	<0.00198	U *	0.00198		mg/Kg		07/01/22 12:30	07/05/22 00:55	1
m-Xylene & p-Xylene	<0.00397	U *	0.00397		mg/Kg		07/01/22 12:30	07/05/22 00:55	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		07/01/22 12:30	07/05/22 00:55	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		07/01/22 12:30	07/05/22 00:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	07/01/22 12:30	07/05/22 00:55	1
1,4-Difluorobenzene (Surr)	100		70 - 130	07/01/22 12:30	07/05/22 00:55	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		mg/Kg			07/05/22 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/28/22 16:43	06/29/22 01:06	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 16:43	06/29/22 01:06	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 16:43	06/29/22 01:06	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130	06/28/22 16:43	06/29/22 01:06	1
o-Terphenyl	104		70 - 130	06/28/22 16:43	06/29/22 01:06	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1370		5.05		mg/Kg			06/30/22 11:45	1

Client Sample ID: SS-28 (2')

Lab Sample ID: 880-16321-7

Date Collected: 06/24/22 10:20

Matrix: Solid

Date Received: 06/27/22 12:55

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		07/01/22 12:30	07/05/22 01:15	1
Toluene	<0.00199	U	0.00199		mg/Kg		07/01/22 12:30	07/05/22 01:15	1
Ethylbenzene	<0.00199	U *	0.00199		mg/Kg		07/01/22 12:30	07/05/22 01:15	1
m-Xylene & p-Xylene	<0.00398	U *	0.00398		mg/Kg		07/01/22 12:30	07/05/22 01:15	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		07/01/22 12:30	07/05/22 01:15	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		07/01/22 12:30	07/05/22 01:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	07/01/22 12:30	07/05/22 01:15	1

Eurofins Midland

## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

Client Sample ID: SS-28 (2')

Lab Sample ID: 880-16321-7

Date Collected: 06/24/22 10:20

Matrix: Solid

Date Received: 06/27/22 12:55

Sample Depth: 2'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	92		70 - 130	07/01/22 12:30	07/05/22 01:15	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			07/05/22 15:13	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	326		50.0		mg/Kg			07/05/22 11:27	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/01/22 08:22	07/02/22 19:36	1
Diesel Range Organics (Over C10-C28)	326		50.0		mg/Kg		07/01/22 08:22	07/02/22 19:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/01/22 08:22	07/02/22 19:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130				07/01/22 08:22	07/02/22 19:36	1
o-Terphenyl	109		70 - 130				07/01/22 08:22	07/02/22 19:36	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	663		4.97		mg/Kg			06/30/22 11:53	1

Client Sample ID: SS-23 (4.5')

Lab Sample ID: 880-16321-8

Date Collected: 06/24/22 10:25

Matrix: Solid

Date Received: 06/27/22 12:55

Sample Depth: 4.5'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	638		4.98		mg/Kg			06/30/22 12:01	1

Client Sample ID: SS-29 (2')

Lab Sample ID: 880-16321-9

Date Collected: 06/24/22 10:30

Matrix: Solid

Date Received: 06/27/22 12:55

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		06/28/22 16:43	06/29/22 01:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		06/28/22 16:43	06/29/22 01:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		06/28/22 16:43	06/29/22 01:28	1

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## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

## Client Sample ID: SS-29 (2')

Date Collected: 06/24/22 10:30

Date Received: 06/27/22 12:55

Sample Depth: 2'

## Lab Sample ID: 880-16321-9

Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	06/28/22 16:43	06/29/22 01:28	1
o-Terphenyl	115		70 - 130	06/28/22 16:43	06/29/22 01:28	1

## Client Sample ID: SS-30 (2')

Date Collected: 06/24/22 10:32

Date Received: 06/27/22 12:55

Sample Depth: 2'

## Lab Sample ID: 880-16321-10

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			06/29/22 11:12	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		06/28/22 16:43	06/29/22 01:49	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		06/28/22 16:43	06/29/22 01:49	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		06/28/22 16:43	06/29/22 01:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				06/28/22 16:43	06/29/22 01:49	1
o-Terphenyl	113		70 - 130				06/28/22 16:43	06/29/22 01:49	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1380		4.96		mg/Kg			06/30/22 12:08	1

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## Surrogate Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

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

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-16321-6	SS-27 (2')	116	100
880-16321-7	SS-28 (2')	119	92
880-16535-A-1-D MS	Matrix Spike	106	98
880-16535-A-1-E MSD	Matrix Spike Duplicate	110	104
LCS 880-28857/1-A	Lab Control Sample	116	101
LCSD 880-28857/2-A	Lab Control Sample Dup	106	103
MB 880-28777/5-A	Method Blank	100	94
MB 880-28857/5-A	Method Blank	100	98

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

## Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-16321-2	SS-2 (6')	116	105
880-16321-2 MS	SS-2 (6')	128	103
880-16321-2 MSD	SS-2 (6')	127	102
880-16321-6	SS-27 (2')	117	104
880-16321-7	SS-28 (2')	105	109
880-16321-9	SS-29 (2')	132 S1+	115
880-16321-10	SS-30 (2')	128	113
880-16373-A-38-E MS	Matrix Spike	90	82
880-16373-A-38-F MSD	Matrix Spike Duplicate	90	87
LCS 880-28577/2-A	Lab Control Sample	122	105
LCS 880-28805/2-A	Lab Control Sample	103	96
LCSD 880-28577/3-A	Lab Control Sample Dup	131 S1+	112
LCSD 880-28805/3-A	Lab Control Sample Dup	107	105
MB 880-28577/1-A	Method Blank	128	116
MB 880-28805/1-A	Method Blank	114	114

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

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

Lab Sample ID: MB 880-28777/5-A

Matrix: Solid

Analysis Batch: 28966

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28777

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/01/22 11:00	07/04/22 05:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/01/22 11:00	07/04/22 05:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/01/22 11:00	07/04/22 05:11	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/01/22 11:00	07/04/22 05:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/01/22 11:00	07/04/22 05:11	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/01/22 11:00	07/04/22 05:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	07/01/22 11:00	07/04/22 05:11	1
1,4-Difluorobenzene (Surr)	94		70 - 130	07/01/22 11:00	07/04/22 05:11	1

Lab Sample ID: MB 880-28857/5-A

Matrix: Solid

Analysis Batch: 28966

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28857

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		07/01/22 12:30	07/04/22 16:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		07/01/22 12:30	07/04/22 16:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		07/01/22 12:30	07/04/22 16:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		07/01/22 12:30	07/04/22 16:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		07/01/22 12:30	07/04/22 16:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		07/01/22 12:30	07/04/22 16:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	07/01/22 12:30	07/04/22 16:47	1
1,4-Difluorobenzene (Surr)	98		70 - 130	07/01/22 12:30	07/04/22 16:47	1

Lab Sample ID: LCS 880-28857/1-A

Matrix: Solid

Analysis Batch: 28966

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28857

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08405		mg/Kg		84	70 - 130
Toluene	0.100	0.09163		mg/Kg		92	70 - 130
Ethylbenzene	0.100	0.07863		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1617		mg/Kg		81	70 - 130
o-Xylene	0.100	0.09538		mg/Kg		95	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-28857/2-A

Matrix: Solid

Analysis Batch: 28966

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28857

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08146		mg/Kg		81	70 - 130	3	35

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

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

Lab Sample ID: LCSD 880-28857/2-A

Matrix: Solid

Analysis Batch: 28966

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28857

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.07962		mg/Kg		80	70 - 130	14	35
Ethylbenzene	0.100	0.06801	*-	mg/Kg		68	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.1379	*-	mg/Kg		69	70 - 130	16	35
o-Xylene	0.100	0.08209		mg/Kg		82	70 - 130	15	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-16535-A-1-D MS

Matrix: Solid

Analysis Batch: 28966

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 28857

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.08232		mg/Kg		82	70 - 130
Toluene	<0.00200	U	0.0998	0.08777		mg/Kg		88	70 - 130
Ethylbenzene	<0.00200	U *	0.0998	0.07257		mg/Kg		73	70 - 130
m-Xylene & p-Xylene	<0.00401	U *- F1	0.200	0.1461		mg/Kg		73	70 - 130
o-Xylene	<0.00200	U	0.0998	0.08421		mg/Kg		84	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-16535-A-1-E MSD

Matrix: Solid

Analysis Batch: 28966

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 28857

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.08757		mg/Kg		88	70 - 130	6	35
Toluene	<0.00200	U	0.0990	0.08541		mg/Kg		86	70 - 130	3	35
Ethylbenzene	<0.00200	U *	0.0990	0.07104		mg/Kg		72	70 - 130	2	35
m-Xylene & p-Xylene	<0.00401	U *- F1	0.198	0.1356	F1	mg/Kg		68	70 - 130	8	35
o-Xylene	<0.00200	U	0.0990	0.08175		mg/Kg		83	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

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

Lab Sample ID: MB 880-28577/1-A

Matrix: Solid

Analysis Batch: 28522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		06/28/22 16:43	06/28/22 22:59	1

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

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

Lab Sample ID: MB 880-28577/1-A

Matrix: Solid

Analysis Batch: 28522

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28577

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		06/28/22 16:43	06/28/22 22:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		06/28/22 16:43	06/28/22 22:59	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	128		70 - 130				06/28/22 16:43	06/28/22 22:59	1
o-Terphenyl	116		70 - 130				06/28/22 16:43	06/28/22 22:59	1

Lab Sample ID: LCS 880-28577/2-A

Matrix: Solid

Analysis Batch: 28522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28577

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1006		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1017		mg/Kg		102	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	122		70 - 130				
o-Terphenyl	105		70 - 130				

Lab Sample ID: LCSD 880-28577/3-A

Matrix: Solid

Analysis Batch: 28522

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28577

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1091		mg/Kg		109	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	1000	1083		mg/Kg		108	70 - 130	6	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	131	S1+	70 - 130						
o-Terphenyl	112		70 - 130						

Lab Sample ID: 880-16321-2 MS

Matrix: Solid

Analysis Batch: 28522

Client Sample ID: SS-2 (6')

Prep Type: Total/NA

Prep Batch: 28577

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	996	1642	F1	mg/Kg		165	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1290		mg/Kg		129	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	128		70 - 130						
o-Terphenyl	103		70 - 130						

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

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

Lab Sample ID: 880-16321-2 MSD

Matrix: Solid

Analysis Batch: 28522

Client Sample ID: SS-2 (6')

Prep Type: Total/NA

Prep Batch: 28577

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	996	1625	F1	mg/Kg		163	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1283		mg/Kg		129	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	127		70 - 130								
o-Terphenyl	102		70 - 130								

Lab Sample ID: MB 880-28805/1-A

Matrix: Solid

Analysis Batch: 28916

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 28805

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		07/01/22 08:22	07/02/22 10:34	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		07/01/22 08:22	07/02/22 10:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		07/01/22 08:22	07/02/22 10:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130				07/01/22 08:22	07/02/22 10:34	1
o-Terphenyl	114		70 - 130				07/01/22 08:22	07/02/22 10:34	1

Lab Sample ID: LCS 880-28805/2-A

Matrix: Solid

Analysis Batch: 28916

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 28805

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	852.2		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	968.8		mg/Kg		97	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	103		70 - 130						
o-Terphenyl	96		70 - 130						

Lab Sample ID: LCSD 880-28805/3-A

Matrix: Solid

Analysis Batch: 28916

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28805

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	965.3		mg/Kg		97	70 - 130	12	20
Diesel Range Organics (Over C10-C28)	1000	1036		mg/Kg		104	70 - 130	7	20

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

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

Lab Sample ID: LCSD 880-28805/3-A

Matrix: Solid

Analysis Batch: 28916

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 28805

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: 880-16373-A-38-E MS

Matrix: Solid

Analysis Batch: 28916

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 28805

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	790.0		mg/Kg		79	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	996	708.5		mg/Kg		70	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: 880-16373-A-38-F MSD

Matrix: Solid

Analysis Batch: 28916

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 28805

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	808.4		mg/Kg		81	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	736.3		mg/Kg		72	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	87		70 - 130

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-28511/1-A

Matrix: Solid

Analysis Batch: 28667

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			06/30/22 09:51	1

Lab Sample ID: LCS 880-28511/2-A

Matrix: Solid

Analysis Batch: 28667

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	257.6		mg/Kg		103	90 - 110

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-28511/3-A

Matrix: Solid

Analysis Batch: 28667

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	259.1		mg/Kg		104	90 - 110	1	20

Lab Sample ID: 880-16321-A-1-B MS

Matrix: Solid

Analysis Batch: 28667

Client Sample ID: 880-16321-A-1-B MS

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	698		250	931.7		mg/Kg		93	90 - 110		

Lab Sample ID: 880-16321-A-1-C MSD

Matrix: Solid

Analysis Batch: 28667

Client Sample ID: 880-16321-A-1-C MSD

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	698		250	939.6		mg/Kg		97	90 - 110	1	20

Lab Sample ID: MB 880-28830/1-A

Matrix: Solid

Analysis Batch: 28944

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			07/03/22 04:48	1

Lab Sample ID: LCS 880-28830/2-A

Matrix: Solid

Analysis Batch: 28944

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	264.2		mg/Kg		106	90 - 110		

Lab Sample ID: LCSD 880-28830/3-A

Matrix: Solid

Analysis Batch: 28944

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	263.4		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 880-16500-A-5-C MS

Matrix: Solid

Analysis Batch: 28944

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	114	F1	249	430.3	F1	mg/Kg		127	90 - 110		

Lab Sample ID: 880-16500-A-5-D MSD

Matrix: Solid

Analysis Batch: 28944

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	114	F1	249	432.3	F1	mg/Kg		128	90 - 110	0	20

Eurofins Midland



## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

## GC VOA

## Prep Batch: 28777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-28777/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 28857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16321-6	SS-27 (2')	Total/NA	Solid	5035	
880-16321-7	SS-28 (2')	Total/NA	Solid	5035	
MB 880-28857/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-28857/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-28857/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-16535-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
880-16535-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 28966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16321-6	SS-27 (2')	Total/NA	Solid	8021B	28857
880-16321-7	SS-28 (2')	Total/NA	Solid	8021B	28857
MB 880-28777/5-A	Method Blank	Total/NA	Solid	8021B	28777
MB 880-28857/5-A	Method Blank	Total/NA	Solid	8021B	28857
LCS 880-28857/1-A	Lab Control Sample	Total/NA	Solid	8021B	28857
LCSD 880-28857/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	28857
880-16535-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	28857
880-16535-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	28857

## Analysis Batch: 29071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16321-6	SS-27 (2')	Total/NA	Solid	Total BTEX	
880-16321-7	SS-28 (2')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 28522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16321-2	SS-2 (6')	Total/NA	Solid	8015B NM	28577
880-16321-6	SS-27 (2')	Total/NA	Solid	8015B NM	28577
880-16321-9	SS-29 (2')	Total/NA	Solid	8015B NM	28577
880-16321-10	SS-30 (2')	Total/NA	Solid	8015B NM	28577
MB 880-28577/1-A	Method Blank	Total/NA	Solid	8015B NM	28577
LCS 880-28577/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28577
LCSD 880-28577/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28577
880-16321-2 MS	SS-2 (6')	Total/NA	Solid	8015B NM	28577
880-16321-2 MSD	SS-2 (6')	Total/NA	Solid	8015B NM	28577

## Prep Batch: 28577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16321-2	SS-2 (6')	Total/NA	Solid	8015NM Prep	
880-16321-6	SS-27 (2')	Total/NA	Solid	8015NM Prep	
880-16321-9	SS-29 (2')	Total/NA	Solid	8015NM Prep	
880-16321-10	SS-30 (2')	Total/NA	Solid	8015NM Prep	
MB 880-28577/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28577/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28577/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Eurofins Midland

## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

## GC Semi VOA (Continued)

## Prep Batch: 28577 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16321-2 MS	SS-2 (6')	Total/NA	Solid	8015NM Prep	
880-16321-2 MSD	SS-2 (6')	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 28636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16321-2	SS-2 (6')	Total/NA	Solid	8015 NM	
880-16321-6	SS-27 (2')	Total/NA	Solid	8015 NM	
880-16321-9	SS-29 (2')	Total/NA	Solid	8015 NM	
880-16321-10	SS-30 (2')	Total/NA	Solid	8015 NM	

## Prep Batch: 28805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16321-7	SS-28 (2')	Total/NA	Solid	8015NM Prep	
MB 880-28805/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-28805/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-28805/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-16373-A-38-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-16373-A-38-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 28916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16321-7	SS-28 (2')	Total/NA	Solid	8015B NM	28805
MB 880-28805/1-A	Method Blank	Total/NA	Solid	8015B NM	28805
LCS 880-28805/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	28805
LCSD 880-28805/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	28805
880-16373-A-38-E MS	Matrix Spike	Total/NA	Solid	8015B NM	28805
880-16373-A-38-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	28805

## Analysis Batch: 29021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16321-7	SS-28 (2')	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 28511

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16321-4	SS-21 (2.5')	Soluble	Solid	DI Leach	
880-16321-6	SS-27 (2')	Soluble	Solid	DI Leach	
880-16321-7	SS-28 (2')	Soluble	Solid	DI Leach	
880-16321-8	SS-23 (4.5')	Soluble	Solid	DI Leach	
880-16321-10	SS-30 (2')	Soluble	Solid	DI Leach	
MB 880-28511/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28511/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28511/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-16321-A-1-B MS	880-16321-A-1-B MS	Soluble	Solid	DI Leach	
880-16321-A-1-C MSD	880-16321-A-1-C MSD	Soluble	Solid	DI Leach	

## Analysis Batch: 28667

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16321-4	SS-21 (2.5')	Soluble	Solid	300.0	28511
880-16321-6	SS-27 (2')	Soluble	Solid	300.0	28511

Eurofins Midland

## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

## HPLC/IC (Continued)

## Analysis Batch: 28667 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16321-7	SS-28 (2')	Soluble	Solid	300.0	28511
880-16321-8	SS-23 (4.5')	Soluble	Solid	300.0	28511
880-16321-10	SS-30 (2')	Soluble	Solid	300.0	28511
MB 880-28511/1-A	Method Blank	Soluble	Solid	300.0	28511
LCS 880-28511/2-A	Lab Control Sample	Soluble	Solid	300.0	28511
LCSD 880-28511/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28511
880-16321-A-1-B MS	880-16321-A-1-B MS	Soluble	Solid	300.0	28511
880-16321-A-1-C MSD	880-16321-A-1-C MSD	Soluble	Solid	300.0	28511

## Leach Batch: 28830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16321-1	SS-1 (2.5')	Soluble	Solid	DI Leach	
880-16321-3	SS-8 (2.5')	Soluble	Solid	DI Leach	
880-16321-5	SS-23 (2.5')	Soluble	Solid	DI Leach	
MB 880-28830/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-28830/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-28830/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-16500-A-5-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-16500-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 28944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-16321-1	SS-1 (2.5')	Soluble	Solid	300.0	28830
880-16321-3	SS-8 (2.5')	Soluble	Solid	300.0	28830
880-16321-5	SS-23 (2.5')	Soluble	Solid	300.0	28830
MB 880-28830/1-A	Method Blank	Soluble	Solid	300.0	28830
LCS 880-28830/2-A	Lab Control Sample	Soluble	Solid	300.0	28830
LCSD 880-28830/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	28830
880-16500-A-5-C MS	Matrix Spike	Soluble	Solid	300.0	28830
880-16500-A-5-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	28830

## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

## Client Sample ID: SS-1 (2.5')

Date Collected: 06/24/22 09:30

Date Received: 06/27/22 12:55

## Lab Sample ID: 880-16321-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	28830	07/01/22 10:31	SMC	XEN MID
Soluble	Analysis	300.0		1			28944	07/03/22 08:04	CH	XEN MID

## Client Sample ID: SS-2 (6')

Date Collected: 06/24/22 09:45

Date Received: 06/27/22 12:55

## Lab Sample ID: 880-16321-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			28636	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	28577	06/28/22 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/29/22 00:03	SM	XEN MID

## Client Sample ID: SS-8 (2.5')

Date Collected: 06/24/22 09:55

Date Received: 06/27/22 12:55

## Lab Sample ID: 880-16321-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.96 g	50 mL	28830	07/01/22 10:31	SMC	XEN MID
Soluble	Analysis	300.0		1			28944	07/03/22 08:12	CH	XEN MID

## Client Sample ID: SS-21 (2.5')

Date Collected: 06/24/22 10:00

Date Received: 06/27/22 12:55

## Lab Sample ID: 880-16321-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	28511	06/28/22 10:07	SMC	XEN MID
Soluble	Analysis	300.0		1			28667	06/30/22 10:48	CH	XEN MID

## Client Sample ID: SS-23 (2.5')

Date Collected: 06/24/22 10:10

Date Received: 06/27/22 12:55

## Lab Sample ID: 880-16321-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	28830	07/01/22 10:31	SMC	XEN MID
Soluble	Analysis	300.0		5			28944	07/03/22 08:20	CH	XEN MID

## Client Sample ID: SS-27 (2')

Date Collected: 06/24/22 10:15

Date Received: 06/27/22 12:55

## Lab Sample ID: 880-16321-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	28857	07/01/22 12:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28966	07/05/22 00:55	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			29071	07/05/22 15:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			28636	06/29/22 11:12	SM	XEN MID

Eurofins Midland

## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

Client Sample ID: SS-27 (2')

Lab Sample ID: 880-16321-6

Date Collected: 06/24/22 10:15

Matrix: Solid

Date Received: 06/27/22 12:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	28577	06/28/22 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/29/22 01:06	SM	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	28511	06/28/22 10:07	SMC	XEN MID
Soluble	Analysis	300.0		1			28667	06/30/22 11:45	CH	XEN MID

Client Sample ID: SS-28 (2')

Lab Sample ID: 880-16321-7

Date Collected: 06/24/22 10:20

Matrix: Solid

Date Received: 06/27/22 12:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	28857	07/01/22 12:30	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	28966	07/05/22 01:15	AJ	XEN MID
Total/NA	Analysis	Total BTEX		1			29071	07/05/22 15:13	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			29021	07/05/22 11:27	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	28805	07/01/22 08:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28916	07/02/22 19:36	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	28511	06/28/22 10:07	SMC	XEN MID
Soluble	Analysis	300.0		1			28667	06/30/22 11:53	CH	XEN MID

Client Sample ID: SS-23 (4.5')

Lab Sample ID: 880-16321-8

Date Collected: 06/24/22 10:25

Matrix: Solid

Date Received: 06/27/22 12:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	28511	06/28/22 10:07	SMC	XEN MID
Soluble	Analysis	300.0		1			28667	06/30/22 12:01	CH	XEN MID

Client Sample ID: SS-29 (2')

Lab Sample ID: 880-16321-9

Date Collected: 06/24/22 10:30

Matrix: Solid

Date Received: 06/27/22 12:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			28636	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	28577	06/28/22 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/29/22 01:28	SM	XEN MID

Client Sample ID: SS-30 (2')

Lab Sample ID: 880-16321-10

Date Collected: 06/24/22 10:32

Matrix: Solid

Date Received: 06/27/22 12:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			28636	06/29/22 11:12	SM	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	28577	06/28/22 16:43	DM	XEN MID
Total/NA	Analysis	8015B NM		1			28522	06/29/22 01:49	SM	XEN MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

Client Sample ID: SS-30 (2')  
Date Collected: 06/24/22 10:32  
Date Received: 06/27/22 12:55

Lab Sample ID: 880-16321-10  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	28511	06/28/22 10:07	SMC	XEN MID
Soluble	Analysis	300.0		1			28667	06/30/22 12:08	CH	XEN MID

Laboratory References:  
XEN MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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**Accreditation/Certification Summary**

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

**Laboratory: Eurofins Midland**

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-23	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX



## Method Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

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

### Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

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

Eurofins Midland

## Sample Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-16321-1  
SDG: Lea Co,NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-16321-1	SS-1 (2.5')	Solid	06/24/22 09:30	06/27/22 12:55	2.5'
880-16321-2	SS-2 (6')	Solid	06/24/22 09:45	06/27/22 12:55	6'
880-16321-3	SS-8 (2.5')	Solid	06/24/22 09:55	06/27/22 12:55	2.5'
880-16321-4	SS-21 (2.5')	Solid	06/24/22 10:00	06/27/22 12:55	2'5
880-16321-5	SS-23 (2.5')	Solid	06/24/22 10:10	06/27/22 12:55	2.5'
880-16321-6	SS-27 (2')	Solid	06/24/22 10:15	06/27/22 12:55	2'
880-16321-7	SS-28 (2')	Solid	06/24/22 10:20	06/27/22 12:55	2'
880-16321-8	SS-23 (4.5')	Solid	06/24/22 10:25	06/27/22 12:55	4.5'
880-16321-9	SS-29 (2')	Solid	06/24/22 10:30	06/27/22 12:55	2'
880-16321-10	SS-30 (2')	Solid	06/24/22 10:32	06/27/22 12:55	2'



Environment Testing  
Xenco

# Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300  
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199

Work Order No: 14321

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Project Manager:	Lundy Cain	Bill to: (if different)	Ralph Butler
Company Name:	Cain Environmental	Company Name:	Elmer Sutter
Address:	2835 E. 17th St.	Address:	1400 Dallas Pkwy, Ste 100
City, State ZIP:	DeSoto, TX 79721	City, State ZIP:	Dallas, TX 75248
Phone:	(575) 441-2344	Email:	Cindy.cain@gmail.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project: NM	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

Project Name:	Bobbi State NE Unit #003	Turn Around	Pres. Code	ANALYSIS REQUEST
Project Number:	-	<input type="checkbox"/> Routine <input checked="" type="checkbox"/> Rush		
Project Location:	Lea Co, NM	Due Date	7/1/22	
Sample Name:	Lundy Cain	TAI starts the day received by the lab, if received by 4:30pm		
PO #:				
SAMPLE RECEIPT	Temp Blank: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Wet Ice: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Thermometer ID:	118	
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Correction Factor:	0.3	
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Temperature Reading:	0.3	
Total Containers:		Corrected Temperature:	2.1	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	ANALYSIS REQUEST	Preservative Codes
SS-1 (2.5')	S	6/24/22	0930	2.5'	C	1	TPH 8015M		None NO
SS-2 (1.0')	S		0945	1.0'	C	1	BTEX		DI Water H <sub>2</sub> O
SS-8 (2.5')	S		0955	2.5'	C	1	Chlorides		Cool Cool
SS-21 (2.5')	S		1000	2.5'	C	1			HCL, HC
SS-23 (2.5')	S		1010	2.5'	C	1			H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub>
SS-27 (2.1')	S		1015	2.1'	C	1			H <sub>3</sub> PO <sub>4</sub> HP
SS-28 (2.1')	S		1020	2.1'	C	1			NaHSO <sub>4</sub> NABIS
SS-23 (4.5')	S		1025	4.5'	C	1			Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> NaSO <sub>3</sub>
SS-29 (2.1')	S		1030	2.1'	C	1			Zn Acetate+NaOH Zn
SS-30 (2.1')	S		1035	2.1'	C	1			NaOH+Ascorbic Acid SAPC



880-16321 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO<sub>2</sub> Na Sr Ti Sn U V Zn  
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Hg 1631 / 245 1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
Lundy Cain	Ralph Butler	6/27/22			

## Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-16321-1

SDG Number: Lea Co,NM

**Login Number: 16321****List Number: 1****Creator: Teel, Brianna****List Source: Eurofins Midland**

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



Environment Testing  
America

## ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-17690-1

Laboratory Sample Delivery Group: Lea Co., NM  
Client Project/Site: Bobbi State WF Unit #003

For:

Crain Environmental  
2925 E. 17th St.  
Odessa, Texas 79761

Attn: Cindy Crain

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
8/15/2022 3:08:08 PM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Laboratory Job ID: 880-17690-1  
SDG: Lea Co., NM

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## Definitions/Glossary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

## Qualifiers

## GC VOA

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

## GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count



## Case Narrative

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

**Job ID: 880-17690-1**

**Laboratory: Eurofins Midland**

**Narrative**

**Job Narrative  
880-17690-1**

**Receipt**

The samples were received on 8/3/2022 2:59 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C

**GC VOA**

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

**GC Semi VOA**

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (890-2706-A-1-A), (890-2706-A-1-B MS) and (890-2706-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: SS-30 (2') (880-17690-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31555 and analytical batch 880-31531 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31561 and analytical batch 880-32162 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

Client Sample ID: SS-1 (2.5')

Lab Sample ID: 880-17690-1

Date Collected: 08/02/22 12:10

Matrix: Solid

Date Received: 08/03/22 14:59

Sample Depth: 2.5'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		5.00		mg/Kg			08/15/22 10:53	1

Client Sample ID: SS-23 (2.5')

Lab Sample ID: 880-17690-2

Date Collected: 08/02/22 12:15

Matrix: Solid

Date Received: 08/03/22 14:59

Sample Depth: 2.5'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	126		4.97		mg/Kg			08/15/22 11:21	1

Client Sample ID: SS-8 (2.5')

Lab Sample ID: 880-17690-3

Date Collected: 08/02/22 12:20

Matrix: Solid

Date Received: 08/03/22 14:59

Sample Depth: 2.5'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		4.96		mg/Kg			08/15/22 11:30	1

Client Sample ID: SS-27 (2')

Lab Sample ID: 880-17690-4

Date Collected: 08/02/22 12:25

Matrix: Solid

Date Received: 08/03/22 14:59

Sample Depth: 2'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		5.02		mg/Kg			08/15/22 11:39	1

Client Sample ID: SS-28 (2')

Lab Sample ID: 880-17690-5

Date Collected: 08/02/22 12:30

Matrix: Solid

Date Received: 08/03/22 14:59

Sample Depth: 2'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		4.99		mg/Kg			08/15/22 11:48	1

Client Sample ID: SS-30 (2')

Lab Sample ID: 880-17690-6

Date Collected: 08/02/22 12:35

Matrix: Solid

Date Received: 08/03/22 14:59

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/08/22 13:23	08/10/22 15:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 13:23	08/10/22 15:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 13:23	08/10/22 15:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 13:23	08/10/22 15:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 13:23	08/10/22 15:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 13:23	08/10/22 15:09	1

Eurofins Midland

## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

Client Sample ID: SS-30 (2')

Lab Sample ID: 880-17690-6

Date Collected: 08/02/22 12:35

Matrix: Solid

Date Received: 08/03/22 14:59

Sample Depth: 2'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	08/08/22 13:23	08/10/22 15:09	1
1,4-Difluorobenzene (Surr)	94		70 - 130	08/08/22 13:23	08/10/22 15:09	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/11/22 10:28	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			08/08/22 11:58	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		08/05/22 09:50	08/06/22 01:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		08/05/22 09:50	08/06/22 01:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		08/05/22 09:50	08/06/22 01:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130				08/05/22 09:50	08/06/22 01:30	1
o-Terphenyl	81		70 - 130				08/05/22 09:50	08/06/22 01:30	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		5.00		mg/Kg			08/15/22 12:16	1

## Surrogate Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-17690-6	SS-30 (2')	108	94
880-17690-6 MS	SS-30 (2')	104	95
880-17690-6 MSD	SS-30 (2')	105	98
890-2704-A-9-D MS	Matrix Spike	106	93
890-2704-A-9-E MSD	Matrix Spike Duplicate	102	103
LCS 880-31768/1-A	Lab Control Sample	111	92
LCS 880-31769/1-A	Lab Control Sample	107	100
LCSD 880-31768/2-A	Lab Control Sample Dup	104	92
MB 880-31768/5-A	Method Blank	94	97
MB 880-31769/5-A	Method Blank	94	102
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-17690-6	SS-30 (2')	68 S1-	81
890-2706-A-1-B MS	Matrix Spike	68 S1-	67 S1-
890-2706-A-1-C MSD	Matrix Spike Duplicate	63 S1-	65 S1-
LCS 880-31555/2-A	Lab Control Sample	89	96
LCSD 880-31555/3-A	Lab Control Sample Dup	89	97
MB 880-31555/1-A	Method Blank	83	101
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

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

Lab Sample ID: MB 880-31768/5-A

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:11	08/11/22 02:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:11	08/11/22 02:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:11	08/11/22 02:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 13:11	08/11/22 02:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:11	08/11/22 02:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 13:11	08/11/22 02:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	08/08/22 13:11	08/11/22 02:38	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/08/22 13:11	08/11/22 02:38	1

Lab Sample ID: LCS 880-31768/1-A

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31768

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07179		mg/Kg		72	70 - 130
Toluene	0.100	0.08341		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.08799		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1838		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09228		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-31768/2-A

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31768

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07256		mg/Kg		73	70 - 130	1	35
Toluene	0.100	0.08266		mg/Kg		83	70 - 130	1	35
Ethylbenzene	0.100	0.08687		mg/Kg		87	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1804		mg/Kg		90	70 - 130	2	35
o-Xylene	0.100	0.09054		mg/Kg		91	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-2704-A-9-D MS

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31768

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.08508		mg/Kg		85	70 - 130
Toluene	<0.00199	U	0.0998	0.09438		mg/Kg		95	70 - 130

Eurofins Midland

## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

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

Lab Sample ID: 890-2704-A-9-D MS

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31768

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0998	0.09810		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2010		mg/Kg		101	70 - 130
o-Xylene	<0.00199	U	0.0998	0.09903		mg/Kg		99	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-2704-A-9-E MSD

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31768

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.1022		mg/Kg		102	70 - 130	18	35
Toluene	<0.00199	U	0.100	0.09599		mg/Kg		96	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.100	0.09685		mg/Kg		96	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1954		mg/Kg		97	70 - 130	3	35
o-Xylene	<0.00199	U	0.100	0.09572		mg/Kg		95	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-31769/5-A

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:23	08/10/22 14:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:23	08/10/22 14:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:23	08/10/22 14:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 13:23	08/10/22 14:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:23	08/10/22 14:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 13:23	08/10/22 14:40	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	08/08/22 13:23	08/10/22 14:40	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/08/22 13:23	08/10/22 14:40	1

Lab Sample ID: LCS 880-31769/1-A

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09980		mg/Kg		100	70 - 130
Toluene	0.100	0.09571		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09946		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2046		mg/Kg		102	70 - 130

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

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

Lab Sample ID: LCS 880-31769/1-A

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09984		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-17690-6 MS

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: SS-30 (2')

Prep Type: Total/NA

Prep Batch: 31769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09015		mg/Kg		90	70 - 130
Toluene	<0.00201	U	0.100	0.09789		mg/Kg		97	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.09981		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.2056		mg/Kg		102	70 - 130
o-Xylene	<0.00201	U	0.100	0.1003		mg/Kg		100	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-17690-6 MSD

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: SS-30 (2')

Prep Type: Total/NA

Prep Batch: 31769

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0998	0.08375		mg/Kg		84	70 - 130	7	35
Toluene	<0.00201	U	0.0998	0.08778		mg/Kg		88	70 - 130	11	35
Ethylbenzene	<0.00201	U	0.0998	0.08858		mg/Kg		89	70 - 130	12	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1816		mg/Kg		91	70 - 130	12	35
o-Xylene	<0.00201	U	0.0998	0.08941		mg/Kg		90	70 - 130	11	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-31555/1-A

Matrix: Solid

Analysis Batch: 31531

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31555

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		08/05/22 09:50	08/05/22 20:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		08/05/22 09:50	08/05/22 20:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		08/05/22 09:50	08/05/22 20:48	1

Eurofins Midland



## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

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

Lab Sample ID: MB 880-31555/1-A

Matrix: Solid

Analysis Batch: 31531

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31555

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130	08/05/22 09:50	08/05/22 20:48	1
o-Terphenyl	101		70 - 130	08/05/22 09:50	08/05/22 20:48	1

Lab Sample ID: LCS 880-31555/2-A

Matrix: Solid

Analysis Batch: 31531

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31555

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	885.3		mg/Kg		89	70 - 130
Diesel Range Organics (Over C10-C28)	1000	874.1		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: LCSD 880-31555/3-A

Matrix: Solid

Analysis Batch: 31531

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31555

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	855.1		mg/Kg		86	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	1000	871.0		mg/Kg		87	70 - 130	0	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 890-2706-A-1-B MS

Matrix: Solid

Analysis Batch: 31531

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31555

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	833.2		mg/Kg		81	70 - 130
Diesel Range Organics (Over C10-C28)	92.2	F1	999	666.4	F1	mg/Kg		57	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	68	S1-	70 - 130
o-Terphenyl	67	S1-	70 - 130

Eurofins Midland

## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

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

Lab Sample ID: 890-2706-A-1-C MSD

Matrix: Solid

Analysis Batch: 31531

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31555

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	850.8		mg/Kg		83	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	92.2	F1	999	643.6	F1	mg/Kg		55	70 - 130	3	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	63	S1-	70 - 130								
o-Terphenyl	65	S1-	70 - 130								

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31561/1-A

Matrix: Solid

Analysis Batch: 32162

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/15/22 10:25	1

Lab Sample ID: LCS 880-31561/2-A

Matrix: Solid

Analysis Batch: 32162

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	235.3		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-31561/3-A

Matrix: Solid

Analysis Batch: 32162

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	238.9		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-17690-1 MS

Matrix: Solid

Analysis Batch: 32162

Client Sample ID: SS-1 (2.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	101		250	352.3		mg/Kg		100	90 - 110

Lab Sample ID: 880-17690-1 MSD

Matrix: Solid

Analysis Batch: 32162

Client Sample ID: SS-1 (2.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	101		250	355.1		mg/Kg		101	90 - 110	1	20

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-17770-A-1-C MS

Matrix: Solid

Analysis Batch: 32162

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	901	F1	249	1097	F1	mg/Kg		79	90 - 110

Lab Sample ID: 880-17770-A-1-D MSD

Matrix: Solid

Analysis Batch: 32162

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	901	F1	249	1097	F1	mg/Kg		79	90 - 110	0	20

## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

## GC VOA

## Prep Batch: 31768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31768/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31768/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31768/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2704-A-9-D MS	Matrix Spike	Total/NA	Solid	5035	
890-2704-A-9-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Prep Batch: 31769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17690-6	SS-30 (2')	Total/NA	Solid	5035	
MB 880-31769/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31769/1-A	Lab Control Sample	Total/NA	Solid	5035	
880-17690-6 MS	SS-30 (2')	Total/NA	Solid	5035	
880-17690-6 MSD	SS-30 (2')	Total/NA	Solid	5035	

## Analysis Batch: 31904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17690-6	SS-30 (2')	Total/NA	Solid	8021B	31769
MB 880-31768/5-A	Method Blank	Total/NA	Solid	8021B	31768
MB 880-31769/5-A	Method Blank	Total/NA	Solid	8021B	31769
LCS 880-31768/1-A	Lab Control Sample	Total/NA	Solid	8021B	31768
LCS 880-31769/1-A	Lab Control Sample	Total/NA	Solid	8021B	31769
LCSD 880-31768/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31768
880-17690-6 MS	SS-30 (2')	Total/NA	Solid	8021B	31769
880-17690-6 MSD	SS-30 (2')	Total/NA	Solid	8021B	31769
890-2704-A-9-D MS	Matrix Spike	Total/NA	Solid	8021B	31768
890-2704-A-9-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31768

## Analysis Batch: 31981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17690-6	SS-30 (2')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 31531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17690-6	SS-30 (2')	Total/NA	Solid	8015B NM	31555
MB 880-31555/1-A	Method Blank	Total/NA	Solid	8015B NM	31555
LCS 880-31555/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31555
LCSD 880-31555/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31555
890-2706-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	31555
890-2706-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	31555

## Prep Batch: 31555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17690-6	SS-30 (2')	Total/NA	Solid	8015NM Prep	
MB 880-31555/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-31555/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-31555/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2706-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2706-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

## GC Semi VOA

## Analysis Batch: 31757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17690-6	SS-30 (2')	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 31561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17690-1	SS-1 (2.5')	Soluble	Solid	DI Leach	
880-17690-2	SS-23 (2.5')	Soluble	Solid	DI Leach	
880-17690-3	SS-8 (2.5')	Soluble	Solid	DI Leach	
880-17690-4	SS-27 (2')	Soluble	Solid	DI Leach	
880-17690-5	SS-28 (2')	Soluble	Solid	DI Leach	
880-17690-6	SS-30 (2')	Soluble	Solid	DI Leach	
MB 880-31561/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31561/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31561/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-17690-1 MS	SS-1 (2.5')	Soluble	Solid	DI Leach	
880-17690-1 MSD	SS-1 (2.5')	Soluble	Solid	DI Leach	
880-17770-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-17770-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 32162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17690-1	SS-1 (2.5')	Soluble	Solid	300.0	31561
880-17690-2	SS-23 (2.5')	Soluble	Solid	300.0	31561
880-17690-3	SS-8 (2.5')	Soluble	Solid	300.0	31561
880-17690-4	SS-27 (2')	Soluble	Solid	300.0	31561
880-17690-5	SS-28 (2')	Soluble	Solid	300.0	31561
880-17690-6	SS-30 (2')	Soluble	Solid	300.0	31561
MB 880-31561/1-A	Method Blank	Soluble	Solid	300.0	31561
LCS 880-31561/2-A	Lab Control Sample	Soluble	Solid	300.0	31561
LCSD 880-31561/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31561
880-17690-1 MS	SS-1 (2.5')	Soluble	Solid	300.0	31561
880-17690-1 MSD	SS-1 (2.5')	Soluble	Solid	300.0	31561
880-17770-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	31561
880-17770-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31561

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## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

Client Sample ID: SS-1 (2.5')

Lab Sample ID: 880-17690-1

Date Collected: 08/02/22 12:10

Matrix: Solid

Date Received: 08/03/22 14:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	31561	08/05/22 10:34	CH	EET MID
Soluble	Analysis	300.0		1			32162	08/15/22 10:53	CH	EET MID

Client Sample ID: SS-23 (2.5')

Lab Sample ID: 880-17690-2

Date Collected: 08/02/22 12:15

Matrix: Solid

Date Received: 08/03/22 14:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	31561	08/05/22 10:34	CH	EET MID
Soluble	Analysis	300.0		1			32162	08/15/22 11:21	CH	EET MID

Client Sample ID: SS-8 (2.5')

Lab Sample ID: 880-17690-3

Date Collected: 08/02/22 12:20

Matrix: Solid

Date Received: 08/03/22 14:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	31561	08/05/22 10:34	CH	EET MID
Soluble	Analysis	300.0		1			32162	08/15/22 11:30	CH	EET MID

Client Sample ID: SS-27 (2')

Lab Sample ID: 880-17690-4

Date Collected: 08/02/22 12:25

Matrix: Solid

Date Received: 08/03/22 14:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	31561	08/05/22 10:34	CH	EET MID
Soluble	Analysis	300.0		1			32162	08/15/22 11:39	CH	EET MID

Client Sample ID: SS-28 (2')

Lab Sample ID: 880-17690-5

Date Collected: 08/02/22 12:30

Matrix: Solid

Date Received: 08/03/22 14:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	31561	08/05/22 10:34	CH	EET MID
Soluble	Analysis	300.0		1			32162	08/15/22 11:48	CH	EET MID

Client Sample ID: SS-30 (2')

Lab Sample ID: 880-17690-6

Date Collected: 08/02/22 12:35

Matrix: Solid

Date Received: 08/03/22 14:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	31769	08/08/22 13:23	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31904	08/10/22 15:09	SM	EET MID
Total/NA	Analysis	Total BTEX		1			31981	08/11/22 10:28	SM	EET MID
Total/NA	Analysis	8015 NM		1			31757	08/08/22 11:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31555	08/05/22 09:50	DM	EET MID
Total/NA	Analysis	8015B NM		1			31531	08/06/22 01:30	SM	EET MID

Eurofins Midland

Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

Client Sample ID: SS-30 (2')  
Date Collected: 08/02/22 12:35  
Date Received: 08/03/22 14:59

Lab Sample ID: 880-17690-6  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	31561	08/05/22 10:34	CH	EET MID
Soluble	Analysis	300.0		1			32162	08/15/22 12:16	CH	EET MID

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Accreditation/Certification Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

## Method Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

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

**Protocol References:**

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

Eurofins Midland

## Sample Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-17690-1	SS-1 (2.5')	Solid	08/02/22 12:10	08/03/22 14:59	2.5'
880-17690-2	SS-23 (2.5')	Solid	08/02/22 12:15	08/03/22 14:59	2.5'
880-17690-3	SS-8 (2.5')	Solid	08/02/22 12:20	08/03/22 14:59	2.5'
880-17690-4	SS-27 (2')	Solid	08/02/22 12:25	08/03/22 14:59	2'
880-17690-5	SS-28 (2')	Solid	08/02/22 12:30	08/03/22 14:59	2'
880-17690-6	SS-30 (2')	Solid	08/02/22 12:35	08/03/22 14:59	2'



## Environment Testing

Houston, TX (281) 240-4200, Dallas TX (214) 902-0300  
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199

## Chain of Custody

Work Order No: 1491

www.xenco.com Page 1 of 1

Project Manager	Lindy Crain	Bill to: (if different)	Ralph Butler
Company Name:	Crain Environmental	Company Name:	Cland / Suddown
Address:	2925 E. 17th St.	Address:	11400 Dallas Pkwy, Ste. 100
City, State ZIP	Odessa, TX 79761	City, State ZIP	Dallas, TX 75248
Phone:	(575) 441-7244	Email	Lindy.Crain@gmail.com

Work Order Comments				
Program:	UST/PST <input type="checkbox"/>	PRPP <input type="checkbox"/>	Brownfields <input type="checkbox"/>	RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	NA			
Reporting	Level II <input type="checkbox"/>	Level III <input type="checkbox"/>	PST/UST <input type="checkbox"/>	TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/>	ADAPT <input type="checkbox"/>	Other: <input type="checkbox"/>	

Project Name:	Bobbie Skate W/F Liny #003		Turn Around	
Project Number:	—		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	
Project Location	Lea Co. NH		Due Date:	8/10/22
Sampler's Name:	Liny Crain		TAT starts the day received by the lab, if received by 4:30pm	
PO #				
SAMPLE RECEIPT			Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Samples Received Intact:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:	TEB
Cooler Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Correction Factor	1.2
Sample Custody Seals:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Temperature Reading:	5.3
Total Containers:			Corrected Temperature:	6.5
Parameters				
Pres. Code				
ANALYSIS REQUEST				
<div>Varides</div> <div>H 8015</div> <div>EX</div>				
Preservative Codes				
None	NO	DI Water	H <sub>2</sub> O	
Cool	Cool	MeOH	Me	
HCL	HC	HNO <sub>3</sub>	HN	
H <sub>2</sub> SO <sub>4</sub>	H <sub>2</sub>	NaOH	Na	
H <sub>3</sub> PO <sub>4</sub>	HP			
NaHSO <sub>4</sub>	NABIS			
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	NaSO <sub>3</sub>			
Zn Acetate+NaOH	Zn			
NaOH+Ascorbic Acid	SAPC			

[illegible]

880-17690 Chain of Custody



Total 2007 / 6010	2008 / 6020:	
Circle Method(s) and Metal(s) to be analyzed		
8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn	
TCLP / SPLP 6010 8RCRA 5b As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document at relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenico, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenico will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenico. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenico, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	8/3/22	2		
3		14:59	4		
5			6		

## Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-17690-1

SDG Number: Lea Co., NM

Login Number: 17690

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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



## Appendix D: Photographic Documentation



Appendix D  
Sundown Energy, LP  
Bobbi State WF Unit #003



Release point (12/7/21)



View to N along W wall of battery (12/7/21)



View to W of release to E of battery (12/7/21)



View to S of battery excavation (8/2/22)



View to W of excavations E of battery (6/27/22)



View to E of S end of battery excavation (7/28/22)



View to N of battery excavation (8/2/22)



View to E of battery excavation (8/2/22)





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## Appendix E: Disposal Documentation

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

API 30-025-26954

Company: Sundown Energy  
 Address: Bockeye  
 Project Lead: Cindy

## LOCATION OF MATERIAL:

Location: Bobbi State 3  
 Company: Sundown Energy

S 20SW T 18S R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
 4008 N. Grimes #270  
 Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity:

18

2-  
18 yds3  
18 yds

## FACILITY CONTACT:

Date: 12/6/21

Contact Signature: Cindy  
 (Agent for Connell Phillips)

Sundown Energy

## NAME OF TRANSPORTER: (Driver)

Date:

12-6-21

Driver Signature:

Dale Rayburn Truck # M83

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

12/6/21

Representative  
 Signature:

Martinez



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/6/2021  
 Hauler: MCNABB PARTNERS  
 Driver: ACIE  
 Truck #: M83  
 Card #  
 Job Ref #

Ticket #: 700-1255568  
 Bid #: Walk-in Bid  
 Date: 12/6/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

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:

☒ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRAIN  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 12/6/2021  
Hauler: MCNABB PARTNERS  
Driver: ACIE  
Truck #: M83  
Card #  
Job Ref #

Ticket #: 700-1255529  
Bid #: Walk-in Bid  
Date: 12/6/2021  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

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:

☒ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/6/2021  
 Hauler: MCNABB PARTNERS  
 Driver: ACIE  
 Truck #: M83  
 Card #  
 Job Ref #

Ticket #: 700-1255607  
 Bid #: Walk-in Bid  
 Date: 12/6/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

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:

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☐ 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: \_\_\_\_\_

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: *Sundown Energy*  
Address: *Buckeye*  
Project Lead: *Cindy Crain*

ADZ 30-025-26934

## LOCATION OF MATERIAL:

Location: *Dobbs State 3*  
Company: *Sundown Energy*

S *205W* T *185* R *36E*

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: *15**111*

## FACILITY CONTACT:

Date: *12/7/21*

Contact Signature:  
(Agent for ~~ConocoPhillips~~)

*Sundown Energy*

## NAME OF TRANSPORTER: (Driver)

Date:

*12-7-2021*

Driver Signature:

*[Signature] M-33*

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

*12-7-21*

Representative  
Signature:

*[Signature]*



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/7/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JESUS  
 Truck #: M33  
 Card #  
 Job Ref #

Ticket #: 700-1255854  
 Bid #: Walk-in Bid  
 Date: 12/7/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	15.00 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:

☒ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/7/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JESUS  
 Truck #: M33  
 Card #  
 Job Ref #

Ticket #: 700-1255808  
 Bid #: Walk-in Bid  
 Date: 12/7/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	15.00 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:

☒ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/7/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JESUS  
 Truck #: M33  
 Card #  
 Job Ref #

Ticket #: 700-1255890  
 Bid #: Walk-in Bid  
 Date: 12/7/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	15.00 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:

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☐ 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: \_\_\_\_\_

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy

## LOCATION OF MATERIAL:

Location: Bobbi State 3  
Company: Sundown Energy

S 20 SW T 185 R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity:

1st	2nd	3rd
10 yds	10 yds	10 yds

## FACILITY CONTACT:

Date: 12/8/21

Contact Signature: Cindy  
(Agent for ~~Conoco Phillips~~)

Sundown Energy

## NAME OF TRANSPORTER: (Driver)

Date: 12-8-21

Driver Signature:

for

## DISPOSAL SITE:

Name of Disposal: R360

Address:

Date: 12/8/21

Representative  
Signature:

[Signature]





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 12/8/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JOSH  
 Truck #: M03  
 Card #  
 Job Ref #

Ticket #: 700-1256042  
 Bid #: Walk-in Bid  
 Date: 12/8/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	10.00 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:

☒ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 12/8/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JOSH  
 Truck #: M02  
 Card #  
 Job Ref #

Ticket #: 700-1256079  
 Bid #: Walk-in Bid  
 Date: 12/8/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

10.00 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:

☒ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 12/8/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JOSH  
 Truck #: M02  
 Card #  
 Job Ref #

Ticket #: 700-1256126  
 Bid #: Walk-in Bid  
 Date: 12/8/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

10.00 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:

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☐ 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: \_\_\_\_\_

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



## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

API 30-025-26954

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy

## LOCATION OF MATERIAL:

Location: Bobbi State 3  
Company: Sundown Energy

S 20 SW T 18 S R 36 E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

1st load  
2nd load  
3rd load  
1st  
2nd  
3rd

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 18

## FACILITY CONTACT:

Date: 12/9/21

Contact Signature: Cindy  
(Agent for ConocoPhillips)

Sundown Energy

## NAME OF TRANSPORTER: (Driver)

Date:

Driver Signature:

Steven Redz

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

R360  
12/9/21

Representative  
Signature:

M-32  






Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 12/9/2021  
 Hauler: MCNABB PARTNERS  
 Driver: GUMAR  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1256414  
 Bid #: Walk-in Bid  
 Date: 12/9/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Permian Basin

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:

- ☒ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 12/9/2021  
 Hauler: MCNABB PARTNERS  
 Driver: GUMAR  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1256365  
 Bid #: Walk-in Bid  
 Date: 12/9/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

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:

☒ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 12/9/2021  
 Hauler: MCNABB PARTNERS  
 Driver: GUMAR  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1256319  
 Bid #: Walk-in Bid  
 Date: 12/9/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

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:

☒ 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: \_\_\_\_\_

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



## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Dockery  
Project Lead: Cindy

API 30-025-26954

## LOCATION OF MATERIAL:

Location: Bobbi State 3  
Company: Sundown Energy

S 20 SW T 18S R 36 E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity:

1st	2nd	3rd
10 yds	10 yds	10 yds

## FACILITY CONTACT:

Date: 12/9/21

Contact Signature: Cindy  
(Agent for ConocoPhillips)

Sundown Energy

## NAME OF TRANSPORTER: (Driver)

Date: 12-9-21

Driver Signature:

for

## DISPOSAL SITE:

Name of Disposal:

R360

Address:

Date:

12/9/21

Representative  
Signature:

[Signature]



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 12/9/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JOSH  
 Truck #: M02  
 Card #  
 Job Ref #

Ticket #: 700-1256361  
 Bid #: Walk-in Bid  
 Date: 12/9/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

~~20.00~~ yards

10.00

**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:

- ☒ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 12/9/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JOSH  
 Truck #: M02  
 Card #  
 Job Ref #

Ticket #: 700-1256316  
 Bid #: Walk-in Bid  
 Date: 12/9/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

10.00 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:

☒ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 12/9/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JOSH  
 Truck #: M02  
 Card #  
 Job Ref #

Ticket #: 700-1256407  
 Bid #: Walk-in Bid  
 Date: 12/9/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

10.00 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:

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☐ 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: \_\_\_\_\_

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



## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Brakeye  
Project Lead: Cindy

API 30-025-26954

## LOCATION OF MATERIAL:

Location: Bobb's Lake 3  
Company: Sundown Energy

S 20 SW T 18 S R 36 E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity:

1 ST  
10 yds  
Hm

## FACILITY CONTACT:

Date: 12/10/21

Contact Signature: Cindy  
(Agent for ConocoPhillips)

Sundown Energy

## NAME OF TRANSPORTER: (Driver)

Date: 12-10-21

Driver Signature:



## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

R360  
12/10/21

Representative  
Signature:





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 12/10/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JOSH  
 Truck #: M02  
 Card #  
 Job Ref #

Ticket #: 700-1256583  
 Bid #: Walk-in Bid  
 Date: 12/10/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	10.00 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:

☒ 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: \_\_\_\_\_

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy API 30-G25-26954  
Address: Bockeys  
Project Lead: Cindy

## LOCATION OF MATERIAL:

Location: Bobb's site 3  
Company: Sundown Energy

S 208W T 18S R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 15 Yds.

## FACILITY CONTACT:

Date: 12/10/21

Contact Signature: Cindy  
(Agent for ConocoPhillips)

Sundown Energy

## NAME OF TRANSPORTER: (Driver)

Date:

12-10-21

Driver Signature:

JLM-33

## DISPOSAL SITE:

Name of Disposal: R360

Address:

Date:

12/10/21

Representative  
Signature: [Signature]





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 12/10/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JESUS  
 Truck #: M33  
 Card #  
 Job Ref #

Ticket #: 700-1256588  
 Bid #: Walk-in Bid  
 Date: 12/10/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

15.00 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:

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☐ 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: \_\_\_\_\_

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
 Address: Buckeye  
 Project Lead: Cindy Crain

API 30-025-26954

## LOCATION OF MATERIAL:

Location: Bobbi state 3  
 Company: Sundown Energy

S 20 SW T 18 S R 36 E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
 4008 N. Grimes #270  
 Hobbs, NM 88240

1st  
 load  
 18405

2nd  
 load  
 18405

3rd  
 load  
 18405

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 18

## FACILITY CONTACT:

Date: 12/13/21

Contact Signature: Cindy  
 (Agent for ConocoPhillips)

Sundown Energy

## NAME OF TRANSPORTER: (Driver)

Date:

Driver Signature:

Lumer Rdz

## DISPOSAL SITE:


Name of Disposal:

Address:

Date:

R360  
 12/13/21

Representative  
 Signature:

M-32  
 - 4m



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/13/2021  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1257238  
 Bid #: Walk-in Bid  
 Date: 12/13/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

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:

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☐ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/13/2021  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1257169  
 Bid #: Walk-in Bid  
 Date: 12/13/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

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:

☒ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 12/13/2021  
 Hauler: MCNABB PARTNERS  
 Driver: GUMAR  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1257102  
 Bid #: Walk-in Bid  
 Date: 12/13/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

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:

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☐ 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: \_\_\_\_\_

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

ADI 30-025-26954

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crain

## LOCATION OF MATERIAL:

Location: Bobbi State 3  
Company: Sundown Energy

S 20 SW T 18 S R 36 E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 18

1. Load

2. Load

3. Load

18 yds

18 yds

## FACILITY CONTACT:

Date:

Contact Signature: Cindy  
(Agent for ConocoPhillips)

Sundown Energy

## NAME OF TRANSPORTER: (Driver)

Date:

Driver Signature:

12/14/21

Jose Moras M-82

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

12-14-21

Representative  
Signature:

C. Muller



Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/14/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JESSE  
 Truck #: M82  
 Card #  
 Job Ref #

Ticket #: 700-1257514  
 Bid #: Walk-in Bid  
 Date: 12/14/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Permian Basin

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:

☒ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/14/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JESSE  
 Truck #: M82  
 Card #  
 Job Ref #

Ticket #: 700-1257456  
 Bid #: Walk-in Bid  
 Date: 12/14/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

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:

☒ 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

*Jesse Moreno M-82*

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/14/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JESSE  
 Truck #: M82  
 Card #  
 Job Ref #

Ticket #: 700-1257431  
 Bid #: Walk-in Bid  
 Date: 12/14/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

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:

☒ 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

*Jesse Moreno M-82*

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

API 30-025-26954

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crain

## LOCATION OF MATERIAL:

Location: Bobbi state 3  
Company: Sundown Energy

S 208W T 18S R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 20

## FACILITY CONTACT:

Date: 12/11/21

Contact Signature: Cindy  
(Agent for ConocoPhillips)

Sundown Energy

## NAME OF TRANSPORTER: (Driver)

Date: 12-11-21

Driver Signature:

Uziel mbo

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

12.14.21

Representative  
Signature:

Ymportance





Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/14/2021  
 Hauler: MCNABB PARTNERS  
 Driver: URIEL  
 Truck #: M80  
 Card #  
 Job Ref #

Ticket #: 700-1257508  
 Bid #: Walk-in Bid  
 Date: 12/14/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 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:

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☐ 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: \_\_\_\_\_

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

API 30-025-26954

Company: Sundown Energy

Address: Buckeye

Project Lead: Cindy Crain

## LOCATION OF MATERIAL:

Location: Bobbi State 3

Company: Sundown Energy

S 2854 T 185 R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

1. Load	2. Load	3. Load
Quantity: 15	15 yds	15 yds

## FACILITY CONTACT:

Date: 12/15/21

Contact Signature: Cindy  
(Agent for ConocoPhillips)

Sundown Energy

## NAME OF TRANSPORTER: (Driver)

Date: 12-15-2021

Driver Signature:

M-33

## DISPOSAL SITE:

Name of Disposal:

Address:

Date: 12-15-21

Representative  
Signature:

C. Mullin



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/15/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JESUS  
 Truck #: M33  
 Card #  
 Job Ref #

Ticket #: 700-1257790  
 Bid #: Walk-in Bid  
 Date: 12/15/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	15.00 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:

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☐ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/15/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JESUS  
 Truck #: M33  
 Card #  
 Job Ref #

Ticket #: 700-1257730  
 Bid #: Walk-in Bid  
 Date: 12/15/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	15.00 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:

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

<b>Driver/ Agent Signature</b>	<b>R360 Representative Signature</b>
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<b>Customer Approval</b>
--------------------------

**THIS IS NOT AN INVOICE!**

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

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



Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/15/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JESUS  
 Truck #: M33  
 Card #  
 Job Ref #

Ticket #: 700-1257676  
 Bid #: Walk-in Bid  
 Date: 12/15/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	15.00 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:

☒ 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):  
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Driver/ Agent Signature \_\_\_\_\_ R360 Representative Signature \_\_\_\_\_

Customer Approval \_\_\_\_\_

**THIS IS NOT AN INVOICE!**

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

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy

API 30-025-26954

## LOCATION OF MATERIAL:

Location: Bobbi state 3  
Company: Sundown Energy

S 20 SW T 18 S R 26 E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 15 yds. 11

## FACILITY CONTACT:

Date:

12-16-21

Contact Signature: Cindy  
(Agent for ~~ConocoPhillips~~)

Sundown Energy

## NAME OF TRANSPORTER: (Driver)

Date:

12-16-21

Driver Signature:

6 m-33

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

R360  
Halfway  
12/16/21

Representative  
Signature: [Signature]





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/16/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JESUS  
 Truck #: M33  
 Card #  
 Job Ref #

Ticket #: 700-1257953  
 Bid #: Walk-in Bid  
 Date: 12/16/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	15.00 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:

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☐ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/16/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JESUS  
 Truck #: M33  
 Card #  
 Job Ref #

Ticket #: 700-1258039  
 Bid #: Walk-in Bid  
 Date: 12/16/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

15.00 yards

**Generator Certification Statement of Waste Status**

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☐ 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):  
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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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



## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

SHIPPING FACILITY NAME &amp; ADDRESS:

API 30-025-26954

Company: Sundown Energy  
Address: Budneye  
Project Lead: Cindy Crain

## LOCATION OF MATERIAL:

Location: Bobbi state 3  
Company: Sundown Energy

S 20 SW T 18 S R 36 E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 18 yards

## FACILITY CONTACT:

Date: 12-16-21

Contact Signature: Cindy  
(Agent for ~~Genoco~~ Phillips)

Sundown Energy

## NAME OF TRANSPORTER: (Driver)

Date: 12-16-21

Driver Signature: Quinn Rdz

## DISPOSAL SITE:

M-32

Name of Disposal:  
Address:  
Date:

12/14/21

Representative  
Signature:

C. Mattinas



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/16/2021  
 Hauler: MCNABB PARTNERS  
 Driver: GUMAR  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1258038  
 Bid #: Walk-in Bid  
 Date: 12/16/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

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:

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☐ 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: \_\_\_\_\_

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





Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/16/2021  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1257952  
 Bid #: Walk-in Bid  
 Date: 12/16/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Permian Basin

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:

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

<b>Driver/ Agent Signature</b>	<b>R360 Representative Signature</b>
--------------------------------	--------------------------------------

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy

API 30.025-26954

## LOCATION OF MATERIAL:

Location: Bobbi state 3  
Company:

S 205w T 185 R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 20

## FACILITY CONTACT:

Date: 12/17/21

Contact Signature: Cindy  
(Agent for ~~ConocoPhillips~~)

Sundown Energy  
TRUCK # M81

## NAME OF TRANSPORTER: (Driver)

Date:

12-17-21

Driver Signature:

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

R360  
12/17/21

Representative  
Signature:





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 12/17/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JOE  
 Truck #: M81  
 Card #  
 Job Ref #

Ticket #: 700-1258259  
 Bid #: Walk-in Bid  
 Date: 12/17/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 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:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
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☐ 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: \_\_\_\_\_

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

SHIPPING FACILITY NAME & ADDRESS: API 30-025-26954Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy

## LOCATION OF MATERIAL:

Location: Bobb: state 3  
Company: Sundown EnergyS 20SW T 18S R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 15 yds

## FACILITY CONTACT:

Date: 12/17/21Contact Signature: Cindy  
(Agent for ConocoPhillips)Sundown Energy

## NAME OF TRANSPORTER: (Driver)

Date: 12-17-21Driver Signature: J 6 m-33

## DISPOSAL SITE:

Name of Disposal: R360  
Address: 12/17/21  
Date: 12/17/21Representative  
Signature: [Signature]



Customer #: CRI5480

Bid #: Walk-in Bid

Ordered by: CINDY CRAIN

Date: 12/17/2021

AFE #:

Generator: SUNDOWN ENERGY LP

PO #:

Generator #:

Manifest #: N/A

Well Ser. #: 26954

Manif. Date: 12/17/2021

Well Name: BOBBI

Hauler: MCNABB PARTNERS

Well #: 3

Driver: JESUS

Field:

Truck #: M33

Field #:

Card #

Rig: NON-DRILLING

Job Ref #

County: LEA (NM)



Permian Basin

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

15.00 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:

- ☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste
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- ☐ 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: \_\_\_\_\_

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

SHIPPING FACILITY NAME & ADDRESS: API 50-025-26254Company: Sundown Energy  
Address: Booby's Lake  
Project Lead: Cindy

## LOCATION OF MATERIAL:

Location: Booby's Lake 3  
Company: Sundown EnergyS 205W T 18S R 36E

Lea County, New Mexico

TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

1st load Hm	2nd load Hm	3rd load Hm
-------------------	-------------------	-------------------

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 15 yds. 11

## FACILITY CONTACT:

Date: 12/20/21Contact Signature: Cindy  
(Agent for ConocoPhillips)Sundown Energy

## NAME OF TRANSPORTER: (Driver)

Date: 12-20-2021

Driver Signature:

M-33

## DISPOSAL SITE:

Name of Disposal: R360  
Address:  
Date: 12/20/21Representative  
Signature:



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 12/20/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JESUS  
 Truck #: M33  
 Card #  
 Job Ref #

Ticket #: 700-1258898  
 Bid #: Walk-in Bid  
 Date: 12/20/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

15.00 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:

☒ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 12/20/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JESUS  
 Truck #: M33  
 Card #  
 Job Ref #

Ticket #: 700-1258821  
 Bid #: Walk-in Bid  
 Date: 12/20/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

15.00 yards

2ND LOAD

**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:

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☐ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 12/20/2021  
 Hauler: MCNABB PARTNERS  
 Driver: JESUS  
 Truck #: M33  
 Card #  
 Job Ref #

Ticket #: 700-1258781  
 Bid #: Walk-in Bid  
 Date: 12/20/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	15.00 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:

☒ 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: \_\_\_\_\_

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

SHIPPING FACILITY NAME & ADDRESS: API 30-025-26954Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crain

## LOCATION OF MATERIAL:

Location: Bobb: state 3  
Company: Sundown EnergyS 2054 T 185 R 36E

Lea County, New Mexico

TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

1st load HM	2 Load 18 yds	3 Load 18 yds
-------------------	------------------	------------------

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 18

## FACILITY CONTACT:

Date: 12/20/21Contact Signature: Cinder  
(Agent for ~~ConocoPhillips~~)Sundown Energy

## NAME OF TRANSPORTER: (Driver)

Date:

Driver Signature: Guerrero Rd3

## DISPOSAL SITE:

Name of Disposal: R360

Address:

Date: 12/20/21Representative  
Signature: M-32  
Impulna?



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 12/20/2021  
 Hauler: MCNABB PARTNERS  
 Driver: GUMAR  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1258779  
 Bid #: Walk-in Bid  
 Date: 12/20/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

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:

☒ 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: \_\_\_\_\_

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





Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/20/2021  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1258820  
 Bid #: Walk-in Bid  
 Date: 12/20/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Permian Basin

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:

☒ 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: \_\_\_\_\_

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



Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/20/2021  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1258897  
 Bid #: Walk-in Bid  
 Date: 12/20/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Permian Basin

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:

☒ 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: \_\_\_\_\_

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: *Sundown*

Address:

Project Lead: *Cindy Crain*

## LOCATION OF MATERIAL:

Location: *Bobby State 3 Battery*Company: *Sundown*

S \_\_\_\_\_

T \_\_\_\_\_

R \_\_\_\_\_

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners

4008 N. Grimes #270

Hobbs, NM 88240

## DESCRIPTION OF WASTE:

*Impacted Soil*

Quantity:

*1. Load**18 yards**2. Load**18 yds**3. Load**18 yds*

## FACILITY CONTACT:

Date:

*12-23-21*Contact Signature: *[Signature]*

(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Date:

Driver Signature: *Gumer Rdz*

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

*12-23-21*

Representative

Signature:

*[Signature]*





Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 12/23/2021  
Hauler: MCNABB PARTNERS  
Driver: GUMER  
Truck #: M32  
Card #  
Job Ref #

Ticket #: 700-1259750  
Bid #: Walk-in Bid  
Date: 12/23/2021  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

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:

☒ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRAIN  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 12/23/2021  
Hauler: MCNABB PARTNERS  
Driver: GUMER  
Truck #: M32  
Card #  
Job Ref #

Ticket #: 700-1259726  
Bid #: Walk-in Bid  
Date: 12/23/2021  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

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:

☒ 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: \_\_\_\_\_

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



Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 12/23/2021  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1259789  
 Bid #: Walk-in Bid  
 Date: 12/23/2021  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Permian Basin

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:

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☐ 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: \_\_\_\_\_

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



## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown  
Address:  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State Battery  
Company:

S 20 T 18 R 36

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

API #30-025-26954  
18 YARS  
M31  
#1 #2 #3 #4  
M31 M31 M31

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity:

184

## FACILITY CONTACT:

Date: 1-31-22

Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Date: 1-31-22

Driver Signature:

Hugo  
Hugo

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

R360  
1/31/22

Representative  
Signature:



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 1/31/2022  
 Hauler: MCNABB PARTNERS  
 Driver: HUGO  
 Truck #: M31  
 Card #  
 Job Ref #

Ticket #: 700-1271089  
 Bid #: Walk-in Bid  
 Date: 1/31/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: BOBBI STATE BATTERY  
 Well #:  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 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:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
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☐ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 1/31/2022  
 Hauler: MCNABB PARTNERS  
 Driver: HUGO  
 Truck #: M31  
 Card #  
 Job Ref #

Ticket #: 700-1271035  
 Bid #: Walk-in Bid  
 Date: 1/31/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: BOBBI STATE BATTERY  
 Well #:  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 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:

- ☒ 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

Hugo M31

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 1/31/2022  
 Hauler: MCNABB PARTNERS  
 Driver: HUGO  
 Truck #: M31  
 Card #  
 Job Ref #

Ticket #: 700-1271002  
 Bid #: Walk-in Bid  
 Date: 1/31/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: BOBBI STATE BATTERY  
 Well #:  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 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:

☒ 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

Hugo M 31

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 1/31/2022  
 Hauler: MCNABB PARTNERS  
 Driver: HUGO  
 Truck #: M31  
 Card #  
 Job Ref #

Ticket #: 700-1270972  
 Bid #: Walk-in Bid  
 Date: 1/31/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: BOBBI STATE BATTERY  
 Well #:  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 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:

☒ 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

*Hugo M31*

*[Signature]*

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown  
Address:  
Project Lead: Cindy Gane

## LOCATION OF MATERIAL:

Location: Bobbi State 3  
Company:

S

20

T

18

R

36

Lea County, New Mexico

API 30025-26954

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity:

1	2	3
20y	20yd	29yd

## FACILITY CONTACT:

Date:

2.1.22

Contact Signature:

(Agent for [REDACTED])

## NAME OF TRANSPORTER: (Driver)

Date:

02/01/22

Driver Signature:

Jesse Manna M-82

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

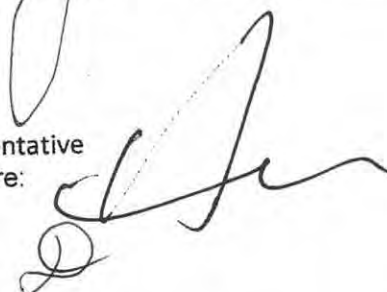
R360

2/1/22

2-1-22

Representative

Signature:







Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 2/1/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JESSE  
 Truck #: M82  
 Card #  
 Job Ref #

Ticket #: 700-1271418  
 Bid #: Walk-in Bid  
 Date: 2/1/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 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:

☒ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 2/1/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JESSE  
 Truck #: M82  
 Card #  
 Job Ref #

Ticket #: 700-1271368  
 Bid #: Walk-in Bid  
 Date: 2/1/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 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:

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 2/1/2022  
Hauler: MCNABB PARTNERS  
Driver: JESSE  
Truck #: M82  
Card #  
Job Ref #

Ticket #: 700-1271316  
Bid #: Walk-in Bid  
Date: 2/1/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

**Generator Certification Statement of Waste Status**

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown  
Address:  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State 3 Battery  
Company:

S 30 T 025 R 26954

Lea County, New Mexico

API # 30-025-26954

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 204

## FACILITY CONTACT:

Date:

2-1-22

Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

TRUCK # M81

Date:

2-1-22

Driver Signature:

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

2-1-22

Representative  
Signature:



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 2/1/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOE  
 Truck #: M81  
 Card #  
 Job Ref #

Ticket #: 700-1271298  
 Bid #: Walk-in Bid  
 Date: 2/1/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 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:

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☐ 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):  
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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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



## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown  
Address:  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State B Battery  
Company:

S 20 T 18 R 36

Lea County, New Mexico

API #30-025-26954

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240


## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 20 YARDS

## FACILITY CONTACT:

Date: 02-02-22

Contact Signature:   
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)


Date: 2-2-22

Driver Signature:  Truck #183

## DISPOSAL SITE:

Name of Disposal:

Address:

Date: 2-2-22  
2-2-22Representative  
Signature: 



Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 2/2/2022  
Hauler: MCNABB PARTNERS  
Driver: ACIE  
Truck #: M83  
Card #  
Job Ref #

Ticket #: 700-1271586  
Bid #: Walk-in Bid  
Date: 2/2/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 999908  
Well Name: BOBBI STATE BATTERY  
Well #:  
Field:  
Field #:  
Rig: NON-DRILLING  
County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

**Generator Certification Statement of Waste Status**

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 2/2/2022  
 Hauler: MCNABB PARTNERS  
 Driver: ACIE  
 Truck #: M83  
 Card #  
 Job Ref #

Ticket #: 700-1271644  
 Bid #: Walk-in Bid  
 Date: 2/2/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: BOBBI STATE B BATTERY  
 Well #:  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

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☐ 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: \_\_\_\_\_

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown  
Address:  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State 3 Battery  
Company:

S 20 T 02/18 R 36

Lea County, New Mexico

API # 30-025-26984

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

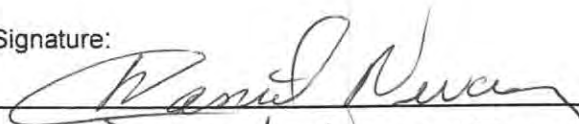
## DESCRIPTION OF WASTE:

Impacted Soil Quantity: 20 y

## FACILITY CONTACT:


Date: 02-02-22 Contact Signature:   
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Date: 02-02-22 Driver Signature: 

## DISPOSAL SITE:

Name of Disposal:  
Address:  
Date: 2-2-22

Representative  
Signature: 

Daniel Neuman  
TRK # M-85  
Belly Dump



Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 2/2/2022  
Hauler: MCNABB PARTNERS  
Driver: DANIEL  
Truck #: M85  
Card #  
Job Ref #

Ticket #: 700-1271589  
Bid #: Walk-in Bid  
Date: 2/2/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 999908  
Well Name: BOBBI STATE B BATTERY  
Well #:  
Field:  
Field #:  
Rig: NON-DRILLING  
County

Facility: CRI

**Product / Service****Quantity Units**

Contaminated Soil (RCRA Exempt)

20.00 yards

**Generator Certification Statement of Waste Status**

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☐ 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: \_\_\_\_\_

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



## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address:  
Project Lead: • Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State 3  
Company:

S 20 T 18 R 36

Lea County, New Mexico

API # 30-025-26984

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil Quantity: 20y

## FACILITY CONTACT:

Date: 02-7-22

Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Date:

2-7-22

Driver Signature:

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

2-7-22  
2-7-22

Representative  
Signature:



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAINE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 2/7/2022  
 Hauler: MCNABB PARTNERS  
 Driver: ACIE  
 Truck #: M83  
 Card #  
 Job Ref #

Ticket #: 700-1272744  
 Bid #: Walk-in Bid  
 Date: 2/7/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 yards

**Generator Certification Statement of Waste Status**

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 2/7/2022  
 Hauler: MCNABB PARTNERS  
 Driver: ACEI  
 Truck #: M83  
 Card #  
 Job Ref #

Ticket #: 700-1272809  
 Bid #: Walk-in Bid  
 Date: 2/7/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 yards

**Generator Certification Statement of Waste Status**

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy

Address:

Project Lead: cindy crane

## LOCATION OF MATERIAL:

Location:

Company:

Bobbie 003

S 20 T 18 R 36

Lea County, New Mexico

API # 30-25-26954

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners

4008 N. Grimes #270

Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil contaminated  
Soil

Quantity: 20 yards

## FACILITY CONTACT:

Date: 2-8-2022

Contact Signature:

(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Date: 2-8-22

Driver Signature:

Ane Mayhew

Teach # 1783

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

2/8

Representative  
Signature:

Impulinar



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 2/8/2022  
 Hauler: MCNABB PARTNERS  
 Driver: ACIE  
 Truck #: M83  
 Card #  
 Job Ref #

Ticket #: 700-1273140  
 Bid #: Walk-in Bid  
 Date: 2/8/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 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:

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 2/8/2022  
 Hauler: MCNABB PARTNERS  
 Driver: ACIE  
 Truck #: M83  
 Card #  
 Job Ref #

Ticket #: 700-1273086  
 Bid #: Walk-in Bid  
 Date: 2/8/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 yards

**Generator Certification Statement of Waste Status**

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

SHIPPING FACILITY NAME & ADDRESS: API: 30-025-26954Company: Sundown Energy

Address:

Project Lead: Lindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State BatteryCompany: Sundown Energy

S \_\_\_\_\_

T \_\_\_\_\_

R \_\_\_\_\_

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners

4008 N. Grimes #270

Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil Cont.Quantity: 20 yards1. Load2. Load3. Load

"

"

## FACILITY CONTACT:

Date: 3-7-22Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Date:

3-7-22

Driver Signature:

Kevin Mayberry Truck # M 83

## DISPOSAL SITE:

Name of Disposal: R-360

Address:

Date: 3-7-22Representative  
Signature:





Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 3/7/2022  
Hauler: MCNABB PARTNERS  
Driver: ACE  
Truck #: M83  
Card #  
Job Ref #

Ticket #: 700-1281389  
Bid #: Walk-in Bid  
Date: 3/7/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 999908  
Well Name: BOBBI STATE BATTERY  
Well #:  
Field:  
Field #:  
Rig: NON-DRILLING  
County

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 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:

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 3/7/2022  
 Hauler: MCNABB PARTNERS  
 Driver: ACE  
 Truck #: M83  
 Card #  
 Job Ref #

Ticket #: 700-1281478  
 Bid #: Walk-in Bid  
 Date: 3/7/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: BOBBI STATE BATTERY  
 Well #:  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 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:

☒ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 3/7/2022  
 Hauler: MCNABB PARTNERS  
 Driver: ACIE  
 Truck #: M83  
 Card #  
 Job Ref #

Ticket #: 700-1281560  
 Bid #: Walk-in Bid  
 Date: 3/7/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: BOBBI STATE BATTERY  
 Well #:  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

**Generator Certification Statement of Waste Status**

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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



## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

SHIPPING FACILITY NAME &amp; ADDRESS: API 30-025-26954

Company: Sundown

Address:

Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobb; State Battery

Company: Sundown

S \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil Cont. Quantity: 20 yards

## FACILITY CONTACT:

Date: 3-11-22

Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

M75

Date: 3-11-22

Driver Signature:

## DISPOSAL SITE:

Name of Disposal: R-360

Address:

Date:

3/11/22

Representative  
Signature:



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 3/11/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOSH  
 Truck #: M75  
 Card #  
 Job Ref #

Ticket #: 700-1283008  
 Bid #: Walk-in Bid  
 Date: 3/11/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 999908  
 Well Name: BOBBI STATE BATTERY  
 Well #:  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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



## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy (S7S)  
Address: Buckeye  
Project Lead: Cindy ERANE 441-7244

## LOCATION OF MATERIAL:

Location: Bobbi State #1 #3  
Company: Sundown

S 20 T 18S R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

Load # 1	Load # 2
18 YARDS	18 YARDS

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity:

18 yds

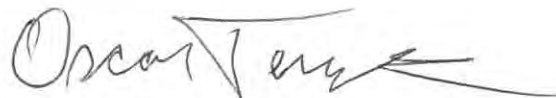
## FACILITY CONTACT:

Date:

5-26-22

Contact Signature:

(Agent for ConocoPhillips)

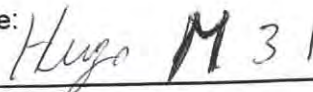


## NAME OF TRANSPORTER: (Driver)

Date:

5-26-22

Driver Signature:



## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

R-360  
5-26-22

Representative  
Signature:



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY ERAENE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 5/26/2022  
 Hauler: MCNABB PARTNERS LLC  
 Driver: HUGO  
 Truck #: M 31  
 Card #  
 Job Ref #

Ticket #: 700-1307624  
 Bid #: Walk-in Bid  
 Date: 5/26/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

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:

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☐ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRAENE 575-441-7244  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 5/26/2022  
Hauler: MCNABB PARTNERS  
Driver: HUGO  
Truck #: M31  
Card #  
Job Ref #

Ticket #: 700-1307537  
Bid #: Walk-in Bid  
Date: 5/26/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

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:

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Handwritten signature of Hugo M31 in black ink.

Handwritten signature of the R360 Representative in black ink.

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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



API 30-025-26954

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi Stake #3  
Company: Sundown Energy

S 20 T 185 R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 20 yds / 20-765

## FACILITY CONTACT:

Date: 5-17-22

Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

TRUCK # M81

Date: 5-17-22

Driver Signature:

Joe

## DISPOSAL SITE:

Name of Disposal: R-300  
Address:  
Date: 6.27.22

Representative  
Signature:

PO



Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 5/27/2022  
Hauler: MCNABB PARTNERS LLC  
Driver: JOE  
Truck #: M81  
Card #  
Job Ref #

Ticket #: 700-1307901  
Bid #: Walk-in Bid  
Date: 5/27/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

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Driver/ Agent Signature

R360 Representative Signature

A handwritten signature in black ink, appearing to be "Joe", written over a horizontal line.

A handwritten signature in black ink, appearing to be "MM", written over a horizontal line.

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 5/27/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOE  
 Truck #: M81  
 Card #  
 Job Ref #

Ticket #: 700-1307948  
 Bid #: Walk-in Bid  
 Date: 5/27/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

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

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State #3  
Company: Sundown Energy

S 20 T 18S R 30E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity:

1st  
20 yds  
M76  
2nd  
20 yds

## FACILITY CONTACT:

Date: 5-27-22

Contact Signature:  
(Agent for ConocoPhillips)

*[Signature]*

## NAME OF TRANSPORTER: (Driver)

Josh

Date: 5-27-22

Driver Signature:

*[Signature]*

## DISPOSAL SITE:

Name of Disposal: R-360  
Address:  
Date:

Representative  
Signature:

*[Signature]*



Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 5/27/2022  
Hauler: MCNABB PARTNERS LLC  
Driver: JOSH  
Truck #: M76  
Card #  
Job Ref #

Ticket #: 700-1307890  
Bid #: Walk-in Bid  
Date: 5/27/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

**Product / Service****Quantity Units**

Contaminated Soil (RCRA Exempt)

20.00 yards

**Generator Certification Statement of Waste Status**

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

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

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 5/27/2022  
 Hauler: MCNABB PARTNERS LLC  
 Driver: JOSH  
 Truck #: M 76  
 Card #  
 Job Ref #

Ticket #: 700-1307939  
 Bid #: Walk-in Bid  
 Date: 5/27/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

## Contaminated Soil (RCRA Exempt)

20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	12	0.00	0.00	0.00	0			0.00			

## Generator Certification Statement of Waste Status

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

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

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Lind Crane

## LOCATION OF MATERIAL:

Location: Bobbi State #3  
Company: Sundown Energy

S 20 T 185 R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 18

## FACILITY CONTACT:

Date: 5-27-22Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Date: 5-27-22

Driver Signature:



Joe Truck-34

Bob Pump

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

Representative  
Signature:





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 5/27/2022  
 Hauler: MCNABB SERVICES, INC.  
 Driver: JOE  
 Truck #: 34  
 Card #  
 Job Ref #

Ticket #: 700-1307888  
 Bid #: Walk-in Bid  
 Date: 5/27/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

18.00 yards

## Generator Certification Statement of Waste Status

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State #3  
Company: Sundown Energy

S 20 T 18S R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity:

20 yds / 20 yds / 20 yds

## FACILITY CONTACT:

Date: 5-31-22

Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

TRUCK # M81

Date: 5-31-22

Driver Signature:

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

R360

Representative  
Signature:



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 5/31/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOE  
 Truck #: M81  
 Card #  
 Job Ref #

Ticket #: 700-1309225  
 Bid #: Walk-in Bid  
 Date: 5/31/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

## Generator Certification Statement of Waste Status

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 5/31/2022  
Hauler: MCNABB PARTNERS  
Driver: JOSE  
Truck #: M81  
Card #  
Job Ref #

Ticket #: 700-1309189  
Bid #: Walk-in Bid  
Date: 5/31/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 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:

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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





(PLEASE PRINT)

Company Man Contact Information  
Name Andy Crane

Phone No. \_\_\_\_\_

Operator No. <u>Sundown Energy</u>	<b>GENERATOR</b>	NO. <u>577383</u>
Operators Name _____	Permit/RRC No. _____	Lease/Well Name & No. <u>Bobbi State #3</u>
Address _____	County _____	API No. _____
City, State, Zip _____	Rig Name & No. _____	AFE/PO No. _____
Phone No. _____		

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds _____	<b>NON-INJECTABLE WATERS</b>	<b>INJECTABLE WATERS</b>
Oil Based Cuttings _____	Washout Water (Non-Injectable) _____	Washout Water (Injectable) _____
Water Based Muds _____	Completion Fluid/Flow back (Non-Injectable) _____	Completion Fluid/Flow back (Injectable) _____
Water Based Cuttings _____	Produced Water (Non-Injectable) _____	Produced Water (Injectable) _____
Produced Formation Solids _____	Gathering Line Water/Waste (Non-Injectable) _____	Gathering Line Water/Waste (Injectable) _____
Tank Bottoms _____	<b>INTERNAL USE ONLY</b>	<b>OTHER EXEMPT WASTES</b> (type and generation process of the waste) _____
E&P Contaminated Soil <u>X</u>	Truck Washout (exempt waste) _____	
Gas Plant Waste _____		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY <u>20</u>	B - BARRELS	L - LIQUID	<u>Y - YARDS</u>	E - EACH
--------------------	-------------	------------	------------------	----------

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 load is (Check the appropriate classification)

- ☒ **RCRA EXEMPT:** Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ **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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

- ☐ **EMERGENCY NON-OILFIELD:** Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS NAME \_\_\_\_\_

DATE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

<b>TRANSPORTER</b>	
Transporter's Name <u>McNabb Brothers</u>	Driver's Name <u>Jose</u>
Address _____	Print Name _____
Phone No. _____	Phone No. _____
	Truck No. <u>m81</u>

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE \_\_\_\_\_

DRIVER'S SIGNATURE \_\_\_\_\_

DELIVERY DATE \_\_\_\_\_

DRIVER'S SIGNATURE \_\_\_\_\_

## TRUCK TIME STAMP

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. 28

Site Name/ \_\_\_\_\_

Permit No. Halfway Facility / NM1-006

Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES NO

PASS THE PAINT FILTER TEST? (Circle One) YES NO

If YES, was reading > 50 micro roentgens? (circle one) YES NO

## TANK BOTTOMS

Feet

Inches

1st Gauge		
2nd Gauge		
Received		

BS&W/BBLs Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? JSNAME (PRINT) JSDATE 5-31-22TITLE RecSIGNATURE JS





(PLEASE PRINT)

Company Man Contact Information Name Andy Crane

Phone No. \_\_\_\_\_

## GENERATOR

NO. 577383

Operator No. Sundown Energy

Operators Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_

Lease/Well \_\_\_\_\_

Name & No. Bobbi Skite #3

County \_\_\_\_\_

API No. \_\_\_\_\_

Rig Name & No. \_\_\_\_\_

AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Muds	Washout Water (Non-Injectable) _____	Washout Water (Injectable) _____
Oil Based Cuttings	Completion Fluid/Flow back (Non-Injectable) _____	Completion Fluid/Flow back (Injectable) _____
Water Based Muds	Produced Water (Non-Injectable) _____	Produced Water (Injectable) _____
Water Based Cuttings	Gathering Line Water/Waste (Non-Injectable) _____	Gathering Line Water/Waste (Injectable) _____
Produced Formation Solids	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
Tank Bottoms	Truck Washout (exempt waste) _____	
E&P Contaminated Soil		
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from Non-Exempt Waste List on back

QUANTITY 20 B - BARRELS L - LIQUID Y - YARDS E - EACH

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 load is (Check the appropriate classification)

- ☒ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ 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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

- ☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS NAME \_\_\_\_\_

DATE \_\_\_\_\_

SIGNATURE \_\_\_\_\_

## TRANSPORTER

Transporter's Name Mellabbs Drifters

Address \_\_\_\_\_

Phone No. \_\_\_\_\_

Driver's Name BSR

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Truck No. m81

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE \_\_\_\_\_

DRIVER'S SIGNATURE \_\_\_\_\_

DELIVERY DATE \_\_\_\_\_

DRIVER'S SIGNATURE \_\_\_\_\_

## TRUCK TIME STAMP

## DISPOSAL FACILITY

## RECEIVING AREA

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 28

Site Name/ Permit No. Halfway Facility / NM1-006

Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES NOIf YES, was reading > 50 micro roentgens? (circle one) YES NOPASS THE PAINT FILTER TEST? (Circle One) YES NO

NO

## TANK BOTTOMS

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLs Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? BS

NAME (PRINT) BSDATE 5/31/22TITLE Rec

SIGNATURE \_\_\_\_\_





(PLEASE PRINT)

Name Bobbi Skate #13

Phone No. \_\_\_\_\_

**GENERATOR**NO. **577383**

Operator No. Sundown Energy

Operators Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_

Lease/Well Name & No. Bobbi Skate #13

County \_\_\_\_\_

API No. \_\_\_\_\_

Rig Name & No. \_\_\_\_\_

AFE/PO No. \_\_\_\_\_

**EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)**

	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Muds	Washout Water (Non-Injectable) _____	Washout Water (Injectable) _____
Oil Based Cuttings	Completion Fluid/Flow back (Non-Injectable) _____	Completion Fluid/Flow back (Injectable) _____
Water Based Muds	Produced Water (Non-Injectable) _____	Produced Water (Injectable) _____
Water Based Cuttings	Gathering Line Water/Waste (Non-Injectable) _____	Gathering Line Water/Waste (Injectable) _____
Produced Formation Solids	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
Tank Bottoms	Truck Washout (exempt waste) _____	
E&P Contaminated Soil		
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

**NON-EXEMPT E&P Waste/Service Identification and Amount**

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY 20 B - BARRELS L - LIQUID Y - YARDS E - EACH

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 load is (Check the appropriate classification)

- ☒ **RCRA EXEMPT:** Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ **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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

- ☐ **EMERGENCY NON-OILFIELD:** Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS NAME

DATE

SIGNATURE

**TRANSPORTER**

Transporter's Name McLabb Brothers

Address \_\_\_\_\_

Phone No. \_\_\_\_\_

Driver's Name BS

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Truck No. 1081

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

**TRUCK TIME STAMP****DISPOSAL FACILITY****RECEIVING AREA**

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 28

Site Name/ Permit No. Halfway Facility / NM1-006

Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079NORM READINGS TAKEN? (Circle One) YES NOIf YES, was reading > 50 micro roentgens? (circle one) YES NOPASS THE PAINT FILTER TEST? (Circle One) YES NO**TANK BOTTOMS**

	Feet	Inches
1st Gauge		
2nd Gauge		
Received		

BS&W/BBLs Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? BS

NAME (PRINT)

DATE

TITLE

SIGNATURE

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State #3  
Company: Sundown

S 20 T 18S R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 20 yds

## FACILITY CONTACT:

Date: 5-31-22

Contact Signature:  
(Agent for ConocoPhillips)



## NAME OF TRANSPORTER: (Driver)

Date: 5-31-22

Driver Signature:

 M-80

## DISPOSAL SITE:

Name of Disposal: R360  
Address:  
Date:

Representative  
Signature:







Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 5/31/2022  
 Hauler: MCNABB PARTNERS  
 Driver: URIEL  
 Truck #: M80  
 Card #  
 Job Ref #

Ticket #: 700-1309251  
 Bid #: Walk-in Bid  
 Date: 5/31/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 5/31/2022  
 Hauler: MCNABB PARTNERS LLC  
 Driver: OSCAR  
 Truck #: M80  
 Card #  
 Job Ref #

Ticket #: 700-1309299  
 Bid #: Walk-in Bid  
 Date: 5/31/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

**Product / Service****Quantity Units**

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ 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: \_\_\_\_\_

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



API# 30-025-26954

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi state #3  
Company: Sundown Energy

S 20 T 18S R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 20yds1st | 2nd | 3rd

## FACILITY CONTACT:

Date:

5-31-22

Contact Signature:

~~(Agent for ConocoPhillips)~~

## NAME OF TRANSPORTER: (Driver)

Date:

5-31-22

Driver Signature:

Joe

Truck 76

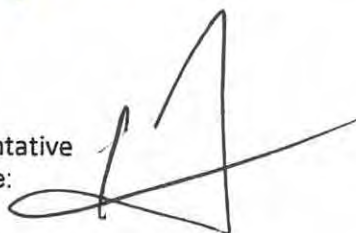
## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

R360  
5/31/22

Representative  
Signature:



Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 5/31/2022  
Hauler: MCNABB PARTNERS  
Driver: JOE  
Truck #: 76  
Card #  
Job Ref #

Ticket #: 700-1309196  
Bid #: Walk-in Bid  
Date: 5/31/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 5/31/2022  
Hauler: MCNABB PARTNERS  
Driver: JOE  
Truck #: M76  
Card #  
Job Ref #

Ticket #: 700-1309229  
Bid #: Walk-in Bid  
Date: 5/31/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

**Product / Service****Quantity Units**

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: JOE TOVAR  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 5/31/2022  
 Hauler: MCNABB PARTNERS LLC  
 Driver: JOE  
 Truck #: 76  
 Card #  
 Job Ref #

Ticket #: 700-1309297  
 Bid #: Walk-in Bid  
 Date: 5/31/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

**Product / Service****Quantity Units**

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ 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: \_\_\_\_\_

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State #3  
Company: Sundown Energy

S 20 T 18 S R 36 E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity:

1st	2nd	3rd
20 yds	20 yds	20 vds

## FACILITY CONTACT:

Date: 5-31-22

Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

M75

Date: 5-31-22

Driver Signature:

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

Representative  
Signature:





(PLEASE PRINT)

Name Cindy Crane

Phone No. \_\_\_\_\_

**GENERATOR**NO. **576996**

Operator No. Sundown Energy

Operators Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_

Lease/Well \_\_\_\_\_

Name & No. \_\_\_\_\_

County \_\_\_\_\_

API No. \_\_\_\_\_

Rig Name & No. \_\_\_\_\_

AFE/PO No. \_\_\_\_\_

**EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)**

Oil Based Muds	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Cuttings	Washout Water (Non-injectable)	Washout Water (Injectable)
Water Based Muds	Completion Fluid/Flow back (Non-Injectable)	Completion Fluid/Flow back (Injectable)
Water Based Cuttings	Produced Water (Non-Injectable)	Produced Water (Injectable)
Produced Formation Solids	Gathering Line Water/Waste (Non-Injectable)	Gathering Line Water/Waste (Injectable)
Tank Bottoms	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
E&P Contaminated Soil	Truck Washout (exempt waste)	
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

**NON-EXEMPT E&P Waste/Service Identification and Amount**

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_

\*please select from **Non-Exempt Waste List** on back

QUANTITY 20 B - BARRELS L - LIQUID Y - YARDS E - EACH

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 load is (Check the appropriate classification)

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ 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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS NAME

DATE

SIGNATURE

**TRANSPORTER**

Transporter's Name McNabb

Address \_\_\_\_\_

Phone No. \_\_\_\_\_

Driver's Name Josh

Print Name \_\_\_\_\_

Phone No. \_\_\_\_\_

Truck No. M75

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

**TRUCK TIME STAMP****DISPOSAL FACILITY****RECEIVING AREA**

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. 28

Site Name/ Permit No. Halfway Facility / NM1-006

Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One)

YES

NO

If YES, was reading &gt; 50 micro roentgens? (circle one)

YES

NO

PASS THE PAINT FILTER TEST? (Circle One)

YES

NO

**TANK BOTTOMS**

Feet

Inches

1st Gauge	
2nd Gauge	
Received	

BS&W/BBLs Received	BS&W (%)
Free Water	
Total Received	

I hereby certify that the above load material has been (circle one):

ACCEPTED

DENIED

If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE





(PLEASE PRINT)

Name Curly Crane

Phone No. \_\_\_\_\_

## GENERATOR

NO. 576996

Operator No. Sudana Energy  
Operators Name \_\_\_\_\_  
Address 137 (102)  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_  
Lease/Well \_\_\_\_\_  
Name & No. \_\_\_\_\_  
County \_\_\_\_\_  
API No. \_\_\_\_\_  
Rig Name & No. \_\_\_\_\_  
AFE/PO No. \_\_\_\_\_

## EXEMPT E&amp;P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)

Oil Based Muds	_____	NON-INJECTABLE WATERS	_____	INJECTABLE WATERS	_____
Oil Based Cuttings	_____	Washout Water (Non-Injectable)	_____	Washout Water (Injectable)	_____
Water Based Muds	_____	Completion Fluid/Flow back (Non-Injectable)	_____	Completion Fluid/Flow back (Injectable)	_____
Water Based Cuttings	_____	Produced Water (Non-Injectable)	_____	Produced Water (Injectable)	_____
Produced Formation Solids	_____	Gathering Line Water/Waste (Non-Injectable)	_____	Gathering Line Water/Waste (Injectable)	_____
Tank Bottoms	_____	INTERNAL USE ONLY	_____	OTHER EXEMPT WASTES (type and generation process of the waste)	_____
E&P Contaminated Soil	✓	Truck Washout (exempt waste)	_____		
Gas Plant Waste	_____				

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES

## NON-EXEMPT E&amp;P Waste/Service Identification and Amount

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from Non-Exempt Waste List on back

QUANTITY 20 B - BARRELS L - LIQUID Y - YARDS E - EACH

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 load is (Check the appropriate classification)

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ 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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

- ☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS NAME Curly CraneDATE 9/13/22SIGNATURE X-100

## TRANSPORTER

Transporter's Name M. N. Ribb  
Address \_\_\_\_\_  
Phone No. \_\_\_\_\_

Driver's Name Josh  
Print Name \_\_\_\_\_  
Phone No. \_\_\_\_\_  
Truck No. MT5

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

## TRUCK TIME STAMP

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

## DISPOSAL FACILITY

## RECEIVING AREA

Name/No. 26

Site Name/ Halfway Facility / NM1-006  
Permit No. \_\_\_\_\_  
Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079NORM READINGS TAKEN? (Circle One) YES ☒ NO ☐If YES, was reading > 50 micro roentgens? (circle one) YES ☐ NO ☒PASS THE PAINT FILTER TEST? (Circle One) YES ☒ NO ☐

NO

## TANK BOTTOMS

Feet

Inches

1st Gauge	_____	_____
2nd Gauge	_____	_____
Received	_____	_____

BS&W/BBLs Received	_____	BS&W (%)	_____
Free Water	_____		
Total Received	_____		

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? \_\_\_\_\_

NAME (PRINT) Melissa UDATE 9/13/22TITLE RecSIGNATURE X-100





(PLEASE PRINT)

Name \_\_\_\_\_

Phone No. \_\_\_\_\_

**GENERATOR**NO. **576996**

Operator No. \_\_\_\_\_  
Operators Name \_\_\_\_\_  
Address \_\_\_\_\_  
City, State, Zip \_\_\_\_\_  
Phone No. \_\_\_\_\_

Permit/RRC No. \_\_\_\_\_  
Lease/Well \_\_\_\_\_  
Name & No. \_\_\_\_\_  
County \_\_\_\_\_  
API No. \_\_\_\_\_  
Rig Name & No. \_\_\_\_\_  
AFE/PO No. \_\_\_\_\_

**EXEMPT E&P Waste/Service Identification and Amount (place volume next to waste type in barrels or cubic yards)**

	NON-INJECTABLE WATERS	INJECTABLE WATERS
Oil Based Muds	Washout Water (Non-Injectable) _____	Washout Water (Injectable) _____
Oil Based Cuttings	Completion Fluid/Flow back (Non-Injectable) _____	Completion Fluid/Flow back (Injectable) _____
Water Based Muds	Produced Water (Non-Injectable) _____	Produced Water (Injectable) _____
Water Based Cuttings	Gathering Line Water/Waste (Non-Injectable) _____	Gathering Line Water/Waste (Injectable) _____
Produced Formation Solids	INTERNAL USE ONLY	OTHER EXEMPT WASTES (type and generation process of the waste)
Tank Bottoms	Truck Washout (exempt waste) _____	
E&P Contaminated Soil		
Gas Plant Waste		

WASTE GENERATION PROCESS: ☐ DRILLING ☐ COMPLETION ☐ PRODUCTION ☐ GATHERING LINES**NON-EXEMPT E&P Waste/Service Identification and Amount**

All non-exempt E&amp;P waste must be analysed and be below the threshold limits for toxicity (TCLP), Ignitability, Corrosivity and Reactivity.

Non-Exempt Other \_\_\_\_\_ \*please select from **Non-Exempt Waste List** on back

QUANTITY	B - BARRELS	L - LIQUID	Y - YARDS	E - EACH
----------	-------------	------------	-----------	----------

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 load is (Check the appropriate classification)

- ☐ RCRA EXEMPT: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste (R360 Accepts certifications on a per load basis only)
- ☐ 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 by 40 CFR, part 261, subpart D, as amended. The following documentation demonstrating the waste as non-hazardous is attached. (Check the appropriate items as provided)
- ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Other (Provide Description Below)

- ☐ EMERGENCY NON-OILFIELD: Emergency non-hazardous, non-oilfield waste that has been ordered by the Department of Public Safety (the order, documentation of non-hazardous waste determination and a description of the waste must accompany this form)

(PRINT) AUTHORIZED AGENTS NAME

DATE

SIGNATURE

**TRANSPORTER**

Transporter's Name \_\_\_\_\_  
Address \_\_\_\_\_  
Phone No. \_\_\_\_\_

Driver's Name \_\_\_\_\_  
Print Name \_\_\_\_\_  
Phone No. \_\_\_\_\_  
Truck No. \_\_\_\_\_

I hereby certify that the above named material(s) was/were picked up at the Generator's site listed above and delivered without incident to the disposal facility listed below.

SHIPMENT DATE

DRIVER'S SIGNATURE

DELIVERY DATE

DRIVER'S SIGNATURE

**TRUCK TIME STAMP****DISPOSAL FACILITY****RECEIVING AREA**

IN: \_\_\_\_\_ OUT: \_\_\_\_\_

Name/No. \_\_\_\_\_

Site Name/ \_\_\_\_\_  
Permit No. Halfway Facility / NM1-006  
Address 6601 Hobbs Hwy US 62/180 Mile Marker 66 Carlsbad, NM 88220

Phone No. 575-393-1079

NORM READINGS TAKEN? (Circle One) YES NO

If YES, was reading &gt; 50 micro roentgens? (circle one) YES NO

PASS THE PAINT FILTER TEST? (Circle One) YES NO

**TANK BOTTOMS**

Feet

Inches

1st Gauge		
2nd Gauge		
Received		

BS&W/BBLs Received		BS&W (%)	
Free Water			
Total Received			

I hereby certify that the above load material has been (circle one): ACCEPTED DENIED If denied, why? \_\_\_\_\_

NAME (PRINT)

DATE

TITLE

SIGNATURE





Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 5/31/2022  
Hauler: MCNABB PARTNERS  
Driver: JOSH  
Truck #: M75  
Card #  
Job Ref #

Ticket #: 700-1309218  
Bid #: Walk-in Bid  
Date: 5/31/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 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:

☒ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 5/31/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOSH  
 Truck #: M75  
 Card #  
 Job Ref #

Ticket #: 700-1309181  
 Bid #: Walk-in Bid  
 Date: 5/31/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ 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: \_\_\_\_\_

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



API# 30-025-26954

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State #3  
Company: Sundown Energy

S 20 T 185 R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity:

~~20 yds~~ 10 yds

## FACILITY CONTACT:

Date: 5-31-22

Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Date: 5-31-22

Driver Signature:

  
MH02

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

R360  
5/31/22

Representative  
Signature:



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 5/31/2022  
 Hauler: MCNABB PARTNERS LLC  
 Driver: RAY  
 Truck #: M02  
 Card #  
 Job Ref #

Ticket #: 700-1309287  
 Bid #: Walk-in Bid  
 Date: 5/31/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

10.00 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:

☒ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 5/31/2022  
Hauler: MCNABB PARTNERS  
Driver: RAY  
Truck #: M02  
Card #  
Job Ref #

Ticket #: 700-1309233  
Bid #: Walk-in Bid  
Date: 5/31/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

**Product / Service****Quantity Units**

Contaminated Soil (RCRA Exempt)

10.00 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:

☒ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 5/31/2022  
Hauler: MCNABB PARTNERS  
Driver: RAY  
Truck #: M02  
Card #  
Job Ref #

Ticket #: 700-1309194  
Bid #: Walk-in Bid  
Date: 5/31/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

10.00 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:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
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☐ 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: \_\_\_\_\_

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

## TRANSPORTER'S MANIFEST

MANIFEST #

API # 30-025-2695p

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State #3  
Company: Sundown Energy

S 20 T 18 S R 36 E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 20 yds

## FACILITY CONTACT:

Date: 6-1-22

Contact Signature:  
(Agent for ConocoPhillips)



## NAME OF TRANSPORTER: (Driver)

Date: 6-1-22

Driver Signature:



## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

Representative  
Signature:





Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 6/1/2022  
Hauler: MCNABB PARTNERS LLC  
Driver: JOE  
Truck #: M81  
Card #  
Job Ref #

Ticket #: 700-1309587  
Bid #: Walk-in Bid  
Date: 6/1/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ 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

A handwritten signature in black ink, appearing to be "Joe", written over a horizontal line.

A handwritten signature in black ink, appearing to be "R. H.", written over a horizontal line.

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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

## TRANSPORTER'S MANIFEST

API # 30-025-~~2654~~  
26954

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State #3  
Company: Sundown EnergyS 20 T 185 R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

3 loads

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 20 yds

## FACILITY CONTACT:

Date: 6-1-22

Contact Signature:  
(Agent for ConocoPhillips)

Oscar Tenner

## NAME OF TRANSPORTER: (Driver)

Date: 6-1-22

Driver Signature:

Joe End Dump  
Truck 76

## DISPOSAL SITE:

Name of Disposal:

Address:

Date: 6/1/22

Representative  
Signature:

JB



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 6/1/2022  
 Hauler: MCNABB PARTNERS LLC  
 Driver: JOE  
 Truck #: 76  
 Card #  
 Job Ref #

Ticket #: 700-1309596  
 Bid #: Walk-in Bid  
 Date: 6/1/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 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:

☒ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 6/1/2022  
Hauler: MCNABB PARTNERS LLC  
Driver: JOE  
Truck #: 76  
Card #  
Job Ref #

Ticket #: 700-1309654  
Bid #: Walk-in Bid  
Date: 6/1/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 6/1/2022  
Hauler: MCNABB PARTNERS  
Driver: JOE  
Truck #: M76  
Card #  
Job Ref #

Ticket #: 700-1309733  
Bid #: Walk-in Bid  
Date: 6/1/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

**Product / Service****Quantity Units**

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
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☐ 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: \_\_\_\_\_

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



API# 30-025-26954

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobb. State #3  
Company: Sundown Energy

S 20 T 18 S R 36 E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity:

15 yds  
11

## FACILITY CONTACT:

Date: 6-1-22

Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Date: 6-1-22

Driver Signature:

J 6 M-33

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

Representative  
Signature:



Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 6/1/2022  
Hauler: MCNABB PARTNERS  
Driver: JESUS  
Truck #: M33  
Card #  
Job Ref #

Ticket #: 700-1309687  
Bid #: Walk-in Bid  
Date: 6/1/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

**Product / Service****Quantity Units**

Contaminated Soil (RCRA Exempt)

15.00 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:

- ☒ 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):  
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**Driver/ Agent Signature****R360 Representative Signature****Customer Approval****THIS IS NOT AN INVOICE!**

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

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 6/1/2022  
 Hauler: MCNABB PARTNERS LLC  
 Driver: JESUS  
 Truck #: M-33  
 Card #  
 Job Ref #

Ticket #: 700-1309734  
 Bid #: Walk-in Bid  
 Date: 6/1/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

15.00 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:

☒ 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: \_\_\_\_\_

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



API# 30-025-26954

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobby State #3  
Company: Sundown Energy

S 20 T 18S R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity:

20yds3 loads

## FACILITY CONTACT:

Date:

6-2-22

Contact Signature:

(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

JoeTruck 76, End Pump

Date:

6-2-22

Driver Signature:

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

R3606/2/22Representative  
Signature:



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 6/2/2022  
 Hauler: MCNABB PARTNERS LLC  
 Driver: JOE  
 Truck #: 76  
 Card #  
 Job Ref #

Ticket #: 700-1310001  
 Bid #: Walk-in Bid  
 Date: 6/2/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
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☐ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 6/2/2022  
 Hauler: MCNABB PARTNERS LLC  
 Driver: JOE  
 Truck #: 76  
 Card #  
 Job Ref #

Ticket #: 700-1310054  
 Bid #: Walk-in Bid  
 Date: 6/2/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
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☐ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 6/2/2022  
Hauler: MCNABB PARTNERS  
Driver: JOE  
Truck #: M76  
Card #  
Job Ref #

Ticket #: 700-1310156  
Bid #: Walk-in Bid  
Date: 6/2/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

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:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
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☐ 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: \_\_\_\_\_

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State #3  
Company: Sundown Energy

S 20 T 18 S R 36 E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

Load #1	Load #2	Load #3
18 YARDS	18 YARDS	18 YARDS

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 18 yds

## FACILITY CONTACT:

Date: 6-2-22

Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Date: 6-2-22

Driver Signature:

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

R360  
6/2/22

Representative  
Signature:





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 6/2/2022  
 Hauler: MCNABB PARTNERS LLC  
 Driver: HUGO  
 Truck #: M31  
 Card #  
 Job Ref #

Ticket #: 700-1310145  
 Bid #: Walk-in Bid  
 Date: 6/2/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

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:

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☐ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 6/2/2022  
Hauler: MCNABB PARTNERS  
Driver: HUGO  
Truck #: M31  
Card #  
Job Ref #

Ticket #: 700-1310052  
Bid #: Walk-in Bid  
Date: 6/2/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

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:

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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

A handwritten signature in black ink that reads "Hugo M31".

A handwritten signature in black ink that appears to be a stylized "B" or "J".

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 6/2/2022  
Hauler: MCNABB PARTNERS  
Driver: HUGO  
Truck #: M31  
Card #  
Job Ref #

Ticket #: 700-1310003  
Bid #: Walk-in Bid  
Date: 6/2/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

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:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
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☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

A handwritten signature in black ink that reads "Hugo M 31".

A handwritten signature in black ink, appearing to be a stylized "J" or "S" followed by a horizontal line.

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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

API # 30-025-26954

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State #3  
Company: Sundown Energy

S 20 T 185 R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: <sup>11</sup> 20 yds / 20-7ds

## FACILITY CONTACT:

Date: 6-3-22

Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

TRUCK # M81

Date: 6-3-22

Driver Signature:

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

R-360  
6-3-22

Representative  
Signature:





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 6/3/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOE  
 Truck #: M81  
 Card #  
 Job Ref #

Ticket #: 700-1310474  
 Bid #: Walk-in Bid  
 Date: 6/3/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 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:

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☐ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 6/3/2022  
Hauler: MCNABB PARTNERS  
Driver: JOE  
Truck #: M81  
Card #  
Job Ref #

Ticket #: 700-1310418  
Bid #: Walk-in Bid  
Date: 6/3/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ 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: \_\_\_\_\_

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

API #30-025-26954

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State #3  
Company: Sundown Energy

S 20 T 18S R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 20yds

## FACILITY CONTACT:

Date: 6-3-22Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Date: 6-3-22

Driver Signature:

Uriel M-80

## DISPOSAL SITE:

Name of Disposal: R3leo  
Address:  
Date:

Representative  
Signature:



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 6/3/2022  
 Hauler: MCNABB PARTNERS  
 Driver: URIEL  
 Truck #: M80  
 Card #  
 Job Ref #

Ticket #: 700-1310453  
 Bid #: Walk-in Bid  
 Date: 6/3/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Water-Based Cuttings

20.00 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:

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☐ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 6/3/2022  
 Hauler: MCNABB PARTNERS LLC  
 Driver: URIEL  
 Truck #: M80  
 Card #  
 Job Ref #

Ticket #: 700-1310505  
 Bid #: Walk-in Bid  
 Date: 6/3/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ 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: \_\_\_\_\_

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



## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State #3  
Company: Sundown Energy

S 20 T 185 R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

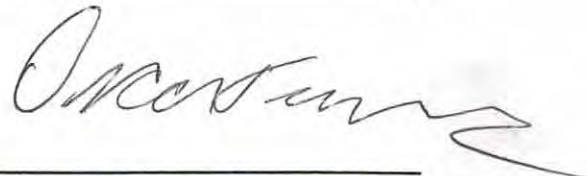
	1	2
Load	✓	✓

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 20yds

## FACILITY CONTACT:


Date: 6-3-22Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Joe Truck 76

Date: 6-3-22

Driver Signature:

 End Dump

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

R3600Representative  
Signature:



Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 6/3/2022  
Hauler: MCNABB PARTNERS  
Driver: JOE  
Truck #: 76  
Card #  
Job Ref #

Ticket #: 700-1310416  
Bid #: Walk-in Bid  
Date: 6/3/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

**Product / Service****Quantity Units**

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
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☐ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 6/3/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOE  
 Truck #: M76  
 Card #  
 Job Ref #

Ticket #: 700-1310467  
 Bid #: Walk-in Bid  
 Date: 6/3/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ 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: \_\_\_\_\_

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



## TRANSPORTER'S MANIFEST

API # 30-025-26954

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi 3  
Company:

S 20 T 185 R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 20 yds

## FACILITY CONTACT:

Date: 6-3-22Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

M75

Date: 6-3-22

Driver Signature:



## DISPOSAL SITE:

Name of Disposal: R-360  
Address:

Date: 6-3-22Representative  
Signature:





Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 6/3/2022  
Hauler: MCNABB PARTNERS  
Driver: JOSH  
Truck #: M75  
Card #  
Job Ref #

Ticket #: 700-1310497  
Bid #: Walk-in Bid  
Date: 6/3/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ 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: \_\_\_\_\_

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

API# 30-025-26954

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckley  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi Sade #3  
Company: Sundown Energy

S 20 T 185 R 36

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

1/2/3 Loads

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity:

20 yds

## FACILITY CONTACT:

Date:

6-6-22

Contact Signature:

(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Joe

Truck # 76 End Dump

Date:

6-6-22

Driver Signature:



## DISPOSAL SITE:

Name of Disposal:

R360

Address:

Date:

6/6/22

Representative  
Signature:



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 6/6/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOE  
 Truck #: 76  
 Card #  
 Job Ref #

Ticket #: 700-1311451  
 Bid #: Walk-in Bid  
 Date: 6/6/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

**Generator Certification Statement of Waste Status**

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☐ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 6/6/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOE  
 Truck #: 76  
 Card #  
 Job Ref #

Ticket #: 700-1311510  
 Bid #: Walk-in Bid  
 Date: 6/6/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

## Generator Certification Statement of Waste Status

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☐ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 6/6/2022  
Hauler: MCNABB PARTNERS  
Driver: JOE  
Truck #: 76  
Card #  
Job Ref #

Ticket #: 700-1311581  
Bid #: Walk-in Bid  
Date: 6/6/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

**Generator Certification Statement of Waste Status**

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☐ 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: \_\_\_\_\_

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

API# 30-025-26954

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State #3  
Company: Sundown Energy

S 20 T 185 R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 10yds

## FACILITY CONTACT:

Date: 6-6-22

Contact Signature:  
(Agent for ConocoPhillips)

Oscar Ten...

## NAME OF TRANSPORTER: (Driver)

Date: 6-6-22

Driver Signature:

M-02  
Ray...

## DISPOSAL SITE:

Load	1	2
	✓	✓

Name of Disposal:

Address: R-360  
Date: 6-6-22

Representative  
Signature:

BO



Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 6/6/2022  
Hauler: MCNABB PARTNERS  
Driver: RAY  
Truck #: M02  
Card #  
Job Ref #

Ticket #: 700-1311580  
Bid #: Walk-in Bid  
Date: 6/6/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	10.00 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:

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☐ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 6/6/2022  
 Hauler: MCNABB PARTNERS  
 Driver: RAY  
 Truck #: M02  
 Card #  
 Job Ref #

Ticket #: 700-1311517  
 Bid #: Walk-in Bid  
 Date: 6/6/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

10.00 yards

## Generator Certification Statement of Waste Status

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☐ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 6/6/2022  
 Hauler: MCNABB PARTNERS  
 Driver: OSCAR RAY  
 Truck #: 02  
 Card #  
 Job Ref #

Ticket #: 700-1311462  
 Bid #: Walk-in Bid  
 Date: 6/6/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

10.00 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:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
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☐ 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: \_\_\_\_\_

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bitter Lake #3  
Company: Sundown Energy

S 20 T 18 S R 36 E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity:

111  
20 yds / 20 yds / 20 yds

## FACILITY CONTACT:

Date: 6-7-22

Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Date: 6-7-22

Driver Signature:

## DISPOSAL SITE:

Name of Disposal: R360

Address:

Date: 6/7/22

Representative  
Signature:



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 6/7/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOE  
 Truck #: M81  
 Card #  
 Job Ref #

Ticket #: 700-1311994  
 Bid #: Walk-in Bid  
 Date: 6/7/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
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☐ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 6/7/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOE  
 Truck #: M81  
 Card #  
 Job Ref #

Ticket #: 700-1311917  
 Bid #: Walk-in Bid  
 Date: 6/7/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

2ND LOAD

## 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:

☒ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 6/7/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOE  
 Truck #: M81  
 Card #  
 Job Ref #

Ticket #: 700-1311844  
 Bid #: Walk-in Bid  
 Date: 6/7/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ 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: \_\_\_\_\_

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi 3  
Company:

S 20 T 18S R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity:

15yd 1 load

## FACILITY CONTACT:

Date: 6-7-22

Contact Signature:  
(Agent for ConocoPhillips)

Oscar Torres

## NAME OF TRANSPORTER: (Driver)

Date: 6-7-22

Driver Signature:

M-33

## DISPOSAL SITE:

Name of Disposal:

Address: R-360

Date: 6-7-22

Representative  
Signature:

DO



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 6/7/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JESUS  
 Truck #: M33  
 Card #  
 Job Ref #

Ticket #: 700-1312019  
 Bid #: Walk-in Bid  
 Date: 6/7/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	15.00 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:

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☐ 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: \_\_\_\_\_

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



## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crave

## LOCATION OF MATERIAL:

Location: Robb's State #3  
Company: Sundown Energy

S 20 T 185 R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 10 yds

## FACILITY CONTACT:

Date: 6-7-22Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Date: 6-7-22

Driver Signature:

  
M-02

## DISPOSAL SITE:

Name of Disposal: R360  
Address:  
Date: 6/1/22

Representative  
Signature:





Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 6/7/2022  
Hauler: MCNABB PARTNERS  
Driver: RAY  
Truck #: M02  
Card #  
Job Ref #

Ticket #: 700-1311999  
Bid #: Walk-in Bid  
Date: 6/7/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	10.00 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:

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 6/7/2022  
 Hauler: MCNABB PARTNERS  
 Driver: RAY  
 Truck #: M02  
 Card #  
 Job Ref #

Ticket #: 700-1311928  
 Bid #: Walk-in Bid  
 Date: 6/7/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

10.00 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:

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 6/7/2022  
 Hauler: MCNABB PARTNERS  
 Driver: RAY  
 Truck #: M02  
 Card #  
 Job Ref #

Ticket #: 700-1311857  
 Bid #: Walk-in Bid  
 Date: 6/7/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	10.00 yards

**Generator Certification Statement of Waste Status**

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: *Sundown Energy*  
Address: *Buckeye*  
Project Lead: *Cindy Crane*

## LOCATION OF MATERIAL:

Location:  
Company:

S 20 T 18S R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity:

*20 yds / 20-7ds*

## FACILITY CONTACT:

Date: *6-8-22*Contact Signature:  
(Agent for ConocoPhillips)*Oscar Ten*

## NAME OF TRANSPORTER: (Driver)

*Truck #1181*Date: *6-8-22*

Driver Signature:

*[Signature]*

## DISPOSAL SITE:

Name of Disposal: *R360*  
Address:  
Date: *6/8/22*

Representative  
Signature:*[Signature]*





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CIND CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 6/8/2022  
 Hauler: MCNABB PARTNERS  
 Driver: OSCAR  
 Truck #: M81  
 Card #  
 Job Ref #

Ticket #: 700-1312321  
 Bid #: Walk-in Bid  
 Date: 6/8/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 yards

**Generator Certification Statement of Waste Status**

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 6/8/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOE  
 Truck #: M81  
 Card #  
 Job Ref #

Ticket #: 700-1312284  
 Bid #: Walk-in Bid  
 Date: 6/8/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

**Generator Certification Statement of Waste Status**

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

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

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

API # 30-025-26954

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State #3  
Company: Sundown Energy

S 20 T 18S R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 20 yds


## FACILITY CONTACT:

Date: 6-9-22Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Date: 6-9-22

Driver Signature:

Joe Truck - 76  
 END D

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

Representative  
Signature:





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 6/9/2022  
 Hauler: MCNABB PARTNERS  
 Driver: OSCAR  
 Truck #: 76  
 Card #  
 Job Ref #

Ticket #: 700-1312782  
 Bid #: Walk-in Bid  
 Date: 6/9/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

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

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



## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State #3  
Company: Sundown Energy

S 20 T 18S R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity:

15yds

## FACILITY CONTACT:

Date:

6-10-22

Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Date:

6-10-22

Driver Signature:

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

R360

Representative  
Signature:



Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 6/10/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JESUS  
 Truck #: M33  
 Card #  
 Job Ref #

Ticket #: 700-1313179  
 Bid #: Walk-in Bid  
 Date: 6/10/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	15.00 yards

**Generator Certification Statement of Waste Status**

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 6/10/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JESUS  
 Truck #: M33  
 Card #  
 Job Ref #

Ticket #: 700-1313099  
 Bid #: Walk-in Bid  
 Date: 6/10/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	15.00 yards

**Generator Certification Statement of Waste Status**

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

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

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



## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Sundown Energy  
Company: Sundown Energy

S 20 T 18S R 36 E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil ,

Quantity:

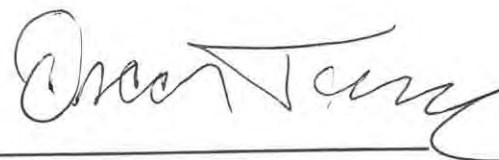
20yds

## FACILITY CONTACT:

Date:

6-13-22

Contact Signature:

~~(Agent for ConocoPhillips)~~

## NAME OF TRANSPORTER: (Driver)

Date:

6-13-22

Driver Signature:

Uriel

M-80

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

Representative  
Signature:





Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 6/13/2022  
 Hauler: MCNABB PARTNERS  
 Driver: URIEL  
 Truck #: M80  
 Card #  
 Job Ref #

Ticket #: 700-1314301  
 Bid #: Walk-in Bid  
 Date: 6/13/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Permian Basin

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	20.00 yards

**Generator Certification Statement of Waste Status**

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☐ 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: \_\_\_\_\_

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State #3  
Company: Sundown Energy

S 20 T 18S R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity:

18 yds

## FACILITY CONTACT:

Date: 6-13-22

Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Date:

Driver Signature:

Gunn Rdz

## DISPOSAL SITE:

Name of Disposal: R-320  
Address:

Date: 6-13-22

Representative  
Signature:

M-32 D.T.



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 6/13/2022  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1314310  
 Bid #: Walk-in Bid  
 Date: 6/13/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	18.00 yards

**Generator Certification Statement of Waste Status**

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☐ 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: \_\_\_\_\_

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



## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi Stake #3  
Company: Sundown Energy

S 20 T 18S R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 18yds

## FACILITY CONTACT:

Date: 6-13-22

Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Date: 6-13-22

Driver Signature:

M31

## DISPOSAL SITE:

Name of Disposal:

Address:

Date: 6-13-22

Representative  
Signature:





Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 6/13/2022  
 Hauler: MCNABB PARTNERS  
 Driver: HUGO  
 Truck #: M31  
 Card #  
 Job Ref #

Ticket #: 700-1314284  
 Bid #: Walk-in Bid  
 Date: 6/13/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Permian Basin

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:

☒ 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

*Hugo M31*

*[Signature]*

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Bobbi State #3  
Company: Sundown Energy

S 20 T 18 S R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 15 yds III

## FACILITY CONTACT:

Date: 6-14-22

Contact Signature:  
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)

Date: 6-14-22

Driver Signature:

m-33

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

R-340  
6-14-22

Representative  
Signature:



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 6/14/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JESUS  
 Truck #: M33  
 Card #  
 Job Ref #

Ticket #: 700-1314588  
 Bid #: Walk-in Bid  
 Date: 6/14/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

15.00 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:

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☐ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 6/14/2022  
Hauler: MCNABB PARTNERS  
Driver: JESUS  
Truck #: M33  
Card #  
Job Ref #

Ticket #: 700-1314679  
Bid #: Walk-in Bid  
Date: 6/14/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

Product / Service	Quantity Units
Contaminated Soil (RCRA Exempt)	15.00 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:

☒ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 6/14/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JESUS  
 Truck #: M33  
 Card #  
 Job Ref #

Ticket #: 700-1314759  
 Bid #: Walk-in Bid  
 Date: 6/14/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

15.00 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:

☒ 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: \_\_\_\_\_

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

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crane

## LOCATION OF MATERIAL:

Location: Hobbs State #3  
Company: Sundown Energy

S 20 T 185 R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: <sup>111</sup> 20 yds / 20 yds / 20 yds

## FACILITY CONTACT:

Date: 6-14-22

Contact Signature:   
(Agent for ConocoPhillips)

## NAME OF TRANSPORTER: (Driver)


Date: 6-14-22

Driver Signature:   
Truck # HM 81

## DISPOSAL SITE:

Name of Disposal:

Address: R-320  
Date: 6-14-22

Representative  
Signature: 



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 6/14/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOE  
 Truck #: M81  
 Card #  
 Job Ref #

Ticket #: 700-1314600  
 Bid #: Walk-in Bid  
 Date: 6/14/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: NA  
Manif. Date: 6/14/2022  
Hauler: MCNABB PARTNERS  
Driver: JOE  
Truck #: M81  
Card #  
Job Ref #

Ticket #: 700-1314688  
Bid #: Walk-in Bid  
Date: 6/14/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

☒ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 6/14/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOE  
 Truck #: M81  
 Card #  
 Job Ref #

Ticket #: 700-1314767  
 Bid #: Walk-in Bid  
 Date: 6/14/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

## Product / Service

## Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 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:

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☐ 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: \_\_\_\_\_

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

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 6/27/2022  
Hauler: MCNABB PARTNERS  
Driver: MIKE  
Truck #: M32  
Card #  
Job Ref #

Ticket #: 700-1319450 Page 418 of 455  
Bid #: Walk-in Bid  
Date: 6/27/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)



Permian Basin

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:

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☐ 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: \_\_\_\_\_

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

M-32





Permian Basin

Customer: SUNDOWN ENERGY LP  
Customer #: CRI5480  
Ordered by: CINDY CRANE  
AFE #:  
PO #:  
Manifest #: N/A  
Manif. Date: 6/27/2022  
Hauler: MCNABB PARTNERS  
Driver: MIKE  
Truck #: M32  
Card #  
Job Ref #

Ticket #: 700-1319304  
Bid #: Walk-in Bid  
Date: 6/27/2022  
Generator: SUNDOWN ENERGY LP  
Generator #:  
Well Ser. #: 26954  
Well Name: BOBBI  
Well #: 3  
Field:  
Field #:  
Rig: NON-DRILLING  
County: LEA (NM)

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:

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☐ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 6/27/2022  
 Hauler: MCNABB PARTNERS  
 Driver: MIKE  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1319354  
 Bid #: Walk-in Bid  
 Date: 6/27/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

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:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
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☐ 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: \_\_\_\_\_

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

M-32





Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 6/27/2022  
 Hauler: MCNABB PARTNERS  
 Driver: MIKE  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1319398  
 Bid #: Walk-in Bid  
 Date: 6/27/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Permian Basin

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:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
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☐ 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: \_\_\_\_\_

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

M 32

## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

Company: Sundown  
Address:  
Project Lead: Cindy

## LOCATION OF MATERIAL:

Location: Bobby State  
Company: Sundown

API 3002527032

S \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240


## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 18 yards Cont


## FACILITY CONTACT:

Date: 6.28.22

Contact Signature:   
(Agent for ~~ConocoPhillips~~)


## NAME OF TRANSPORTER: (Driver)

Date: 6.28.22

Driver Signature: 

## DISPOSAL SITE:

Name of Disposal: R-360  
Address: Halfway run  
Date: 6.28.22

Representative  
Signature: 



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 6/28/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOHN  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1319729  
 Bid #: Walk-in Bid  
 Date: 6/28/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

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:

☒ 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: \_\_\_\_\_

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





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: n/a  
 Manif. Date: 6/28/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JOWN  
 Truck #: M32  
 Card #  
 Job Ref #

Ticket #: 700-1319771 Page 424 of 455  
 Bid #: Walk-in Bid  
 Date: 6/28/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

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:

☒ 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: \_\_\_\_\_

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



## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

API 30-025-26954

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy Crain

## LOCATION OF MATERIAL:

Location: Bobbi state 3  
Company: Sundown Energy

S 20SW T 18S R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 15yds

15yds

(1)

(2)

## FACILITY CONTACT:

Date: 7/28/22

Contact Signature: Cindy  
(Agent for ConocoPhillips)

Sundown Energy

## NAME OF TRANSPORTER: (Driver)

Date: 7-29-22

Driver Signature:

M-33

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

7/29/22

Representative  
Signature:

Cynthia



Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 7/29/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JESUS  
 Truck #: M33  
 Card #  
 Job Ref #

Ticket #: 700-1330256  
 Bid #: Walk-in Bid  
 Date: 7/29/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Permian Basin

Facility: CRI

**Product / Service****Quantity Units**

Contaminated Soil (RCRA Exempt)

15.00 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:

☒ 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: \_\_\_\_\_

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



Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRANE  
 AFE #:  
 PO #:  
 Manifest #: NA  
 Manif. Date: 7/29/2022  
 Hauler: MCNABB PARTNERS  
 Driver: JESUS  
 Truck #: M33  
 Card #  
 Job Ref #

Ticket #: 700-1330335  
 Bid #: Walk-in Bid  
 Date: 7/29/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

15.00 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:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste  
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☐ 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: \_\_\_\_\_

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



## TRANSPORTER'S MANIFEST

MANIFEST # \_\_\_\_\_

## SHIPPING FACILITY NAME &amp; ADDRESS:

API 30-025-26954

Company: Sundown Energy  
Address: Buckeye  
Project Lead: Cindy

## LOCATION OF MATERIAL:

Location: Bobbi State 3  
Company: Sundown Energy

S 205W T 185 R 36E

Lea County, New Mexico

## TRANSPORTER NAME &amp; ADDRESS:

McNabb Partners  
4008 N. Grimes #270  
Hobbs, NM 88240

## DESCRIPTION OF WASTE:

Impacted Soil

Quantity: 18

11111

## FACILITY CONTACT:

Date: 8/2/22

Contact Signature: Cindy  
(Agent for ConocoPhillips)  
Sundown Energy

## NAME OF TRANSPORTER: (Driver)

Date:

Driver Signature:

Lumer Rdz

## DISPOSAL SITE:

Name of Disposal:

Address:

Date:

R360  
8/2/22

M-31  
Representative  
Signature:

Signature





Permian Basin

Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAIN  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 8/2/2022  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M31  
 Card #  
 Job Ref #

Ticket #: 700-1331894  
 Bid #: Walk-in Bid  
 Date: 8/2/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

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:

☒ 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: \_\_\_\_\_

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



Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAINE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 8/2/2022  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M31  
 Card #  
 Job Ref #

Ticket #: 700-1331811  
 Bid #: Walk-in Bid  
 Date: 8/2/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Permian Basin

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:

☒ 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):  
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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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





Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAINE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 8/2/2022  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M31  
 Card #  
 Job Ref #

Ticket #: 700-1331764  
 Bid #: Walk-in Bid  
 Date: 8/2/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Permian Basin

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:

☒ 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: \_\_\_\_\_

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



Customer: SUNDOWN ENERGY LP  
 Customer #: CRI5480  
 Ordered by: CINDY CRAINE  
 AFE #:  
 PO #:  
 Manifest #: N/A  
 Manif. Date: 8/2/2022  
 Hauler: MCNABB PARTNERS  
 Driver: GUMER  
 Truck #: M31  
 Card #  
 Job Ref #

Ticket #: 700-1331728  
 Bid #: Walk-in Bid  
 Date: 8/2/2022  
 Generator: SUNDOWN ENERGY LP  
 Generator #:  
 Well Ser. #: 26954  
 Well Name: BOBBI  
 Well #: 3  
 Field:  
 Field #:  
 Rig: NON-DRILLING  
 County: LEA (NM)

Permian Basin

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:

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

**THIS IS NOT AN INVOICE!**

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

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





## Environment Testing America

### ANALYTICAL REPORT

Eurofins Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-17690-1

Laboratory Sample Delivery Group: Lea Co., NM  
Client Project/Site: Bobbi State WF Unit #003  
Revision: 1

**For:**

Crain Environmental  
2925 E. 17th St.  
Odessa, Texas 79761

Attn: Cindy Crain

Authorized for release by:

9/13/2022 12:10:53 PM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Laboratory Job ID: 880-17690-1  
SDG: Lea Co., NM

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## Definitions/Glossary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

## Qualifiers

## GC VOA

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

## GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
H	Sample was prepped or analyzed beyond the specified holding time
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Midland

## Case Narrative

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

### Job ID: 880-17690-1

#### Laboratory: Eurofins Midland

##### Narrative

##### Job Narrative 880-17690-1

##### REVISION

The report being provided is a revision of the original report sent on 8/15/2022. The report (revision 1) is being revised due to Per client email, needing TPH ran on sample SS-28 as indicated on COC.

Report revision history

##### Receipt

The samples were received on 8/3/2022 2:59 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C

##### GC VOA

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

##### HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-31561 and analytical batch 880-32162 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

### Job ID: 880-17690-2

#### Laboratory: Eurofins Midland

##### Narrative

##### Job Narrative 880-17690-2

##### Receipt

The samples were received on 8/3/2022 2:59 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.5°C

##### GC Semi VOA

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-34181/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-34181 and analytical batch 880-34171 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10.

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-34181 and analytical batch 880-34171 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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



## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

## Client Sample ID: SS-1 (2.5')

Date Collected: 08/02/22 12:10

Date Received: 08/03/22 14:59

Sample Depth: 2.5'

## Lab Sample ID: 880-17690-1

Matrix: Solid

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		5.00		mg/Kg			08/15/22 10:53	1

## Client Sample ID: SS-23 (2.5')

Date Collected: 08/02/22 12:15

Date Received: 08/03/22 14:59

Sample Depth: 2.5'

## Lab Sample ID: 880-17690-2

Matrix: Solid

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	126		4.97		mg/Kg			08/15/22 11:21	1

## Client Sample ID: SS-8 (2.5')

Date Collected: 08/02/22 12:20

Date Received: 08/03/22 14:59

Sample Depth: 2.5'

## Lab Sample ID: 880-17690-3

Matrix: Solid

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	119		4.96		mg/Kg			08/15/22 11:30	1

## Client Sample ID: SS-27 (2')

Date Collected: 08/02/22 12:25

Date Received: 08/03/22 14:59

Sample Depth: 2'

## Lab Sample ID: 880-17690-4

Matrix: Solid

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	141		5.02		mg/Kg			08/15/22 11:39	1

## Client Sample ID: SS-28 (2')

Date Collected: 08/02/22 12:30

Date Received: 08/03/22 14:59

Sample Depth: 2'

## Lab Sample ID: 880-17690-5

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	71.7		50.0		mg/Kg			09/13/22 10:25	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U H *1	50.0		mg/Kg		09/12/22 08:48	09/12/22 15:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U H	50.0		mg/Kg		09/12/22 08:48	09/12/22 15:19	1
Oil Range Organics (Over C28-C36)	71.7	H	50.0		mg/Kg		09/12/22 08:48	09/12/22 15:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130				09/12/22 08:48	09/12/22 15:19	1
o-Terphenyl	111		70 - 130				09/12/22 08:48	09/12/22 15:19	1

Eurofins Midland

## Client Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

Client Sample ID: SS-28 (2')

Lab Sample ID: 880-17690-5

Date Collected: 08/02/22 12:30

Matrix: Solid

Date Received: 08/03/22 14:59

Sample Depth: 2'

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	111		4.99		mg/Kg			08/15/22 11:48	1

Client Sample ID: SS-30 (2')

Lab Sample ID: 880-17690-6

Date Collected: 08/02/22 12:35

Matrix: Solid

Date Received: 08/03/22 14:59

Sample Depth: 2'

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		08/08/22 13:23	08/10/22 15:09	1
Toluene	<0.00201	U	0.00201		mg/Kg		08/08/22 13:23	08/10/22 15:09	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		08/08/22 13:23	08/10/22 15:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		08/08/22 13:23	08/10/22 15:09	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		08/08/22 13:23	08/10/22 15:09	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		08/08/22 13:23	08/10/22 15:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130				08/08/22 13:23	08/10/22 15:09	1
1,4-Difluorobenzene (Surr)	94		70 - 130				08/08/22 13:23	08/10/22 15:09	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			08/11/22 10:28	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	110		5.00		mg/Kg			08/15/22 12:16	1

# Surrogate Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

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

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-17690-6	SS-30 (2')	108	94
880-17690-6 MS	SS-30 (2')	104	95
880-17690-6 MSD	SS-30 (2')	105	98
890-2704-A-9-D MS	Matrix Spike	106	93
890-2704-A-9-E MSD	Matrix Spike Duplicate	102	103
LCS 880-31768/1-A	Lab Control Sample	111	92
LCS 880-31769/1-A	Lab Control Sample	107	100
LCSD 880-31768/2-A	Lab Control Sample Dup	104	92
MB 880-31768/5-A	Method Blank	94	97
MB 880-31769/5-A	Method Blank	94	102

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-17690-5	SS-28 (2')	109	111
890-2907-A-1-C MS	Matrix Spike	98	93
890-2907-A-1-D MSD	Matrix Spike Duplicate	99	93
LCS 880-34181/2-A	Lab Control Sample	144 S1+	151 S1+
LCSD 880-34181/3-A	Lab Control Sample Dup	122	130
MB 880-34181/1-A	Method Blank	105	109

### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

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

Lab Sample ID: MB 880-31768/5-A

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31768

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:11	08/11/22 02:38	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:11	08/11/22 02:38	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:11	08/11/22 02:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 13:11	08/11/22 02:38	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:11	08/11/22 02:38	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 13:11	08/11/22 02:38	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	08/08/22 13:11	08/11/22 02:38	1
1,4-Difluorobenzene (Surr)	97		70 - 130	08/08/22 13:11	08/11/22 02:38	1

Lab Sample ID: LCS 880-31768/1-A

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31768

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07179		mg/Kg		72	70 - 130
Toluene	0.100	0.08341		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.08799		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1838		mg/Kg		92	70 - 130
o-Xylene	0.100	0.09228		mg/Kg		92	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-31768/2-A

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 31768

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07256		mg/Kg		73	70 - 130	1	35
Toluene	0.100	0.08266		mg/Kg		83	70 - 130	1	35
Ethylbenzene	0.100	0.08687		mg/Kg		87	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.1804		mg/Kg		90	70 - 130	2	35
o-Xylene	0.100	0.09054		mg/Kg		91	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-2704-A-9-D MS

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31768

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U	0.0998	0.08508		mg/Kg		85	70 - 130
Toluene	<0.00199	U	0.0998	0.09438		mg/Kg		95	70 - 130

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

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

Lab Sample ID: 890-2704-A-9-D MS

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 31768

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U	0.0998	0.09810		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	<0.00398	U	0.200	0.2010		mg/Kg		101	70 - 130
o-Xylene	<0.00199	U	0.0998	0.09903		mg/Kg		99	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-2704-A-9-E MSD

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 31768

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.1022		mg/Kg		102	70 - 130	18	35
Toluene	<0.00199	U	0.100	0.09599		mg/Kg		96	70 - 130	2	35
Ethylbenzene	<0.00199	U	0.100	0.09685		mg/Kg		96	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1954		mg/Kg		97	70 - 130	3	35
o-Xylene	<0.00199	U	0.100	0.09572		mg/Kg		95	70 - 130	3	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: MB 880-31769/5-A

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 31769

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:23	08/10/22 14:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:23	08/10/22 14:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:23	08/10/22 14:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		08/08/22 13:23	08/10/22 14:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		08/08/22 13:23	08/10/22 14:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		08/08/22 13:23	08/10/22 14:40	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	08/08/22 13:23	08/10/22 14:40	1
1,4-Difluorobenzene (Surr)	102		70 - 130	08/08/22 13:23	08/10/22 14:40	1

Lab Sample ID: LCS 880-31769/1-A

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09980		mg/Kg		100	70 - 130
Toluene	0.100	0.09571		mg/Kg		96	70 - 130
Ethylbenzene	0.100	0.09946		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	0.200	0.2046		mg/Kg		102	70 - 130

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

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

Lab Sample ID: LCS 880-31769/1-A

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 31769

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
o-Xylene	0.100	0.09984		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Lab Sample ID: 880-17690-6 MS

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: SS-30 (2')

Prep Type: Total/NA

Prep Batch: 31769

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00201	U	0.100	0.09015		mg/Kg		90	70 - 130
Toluene	<0.00201	U	0.100	0.09789		mg/Kg		97	70 - 130
Ethylbenzene	<0.00201	U	0.100	0.09981		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.201	0.2056		mg/Kg		102	70 - 130
o-Xylene	<0.00201	U	0.100	0.1003		mg/Kg		100	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: 880-17690-6 MSD

Matrix: Solid

Analysis Batch: 31904

Client Sample ID: SS-30 (2')

Prep Type: Total/NA

Prep Batch: 31769

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00201	U	0.0998	0.08375		mg/Kg		84	70 - 130	7	35
Toluene	<0.00201	U	0.0998	0.08778		mg/Kg		88	70 - 130	11	35
Ethylbenzene	<0.00201	U	0.0998	0.08858		mg/Kg		89	70 - 130	12	35
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1816		mg/Kg		91	70 - 130	12	35
o-Xylene	<0.00201	U	0.0998	0.08941		mg/Kg		90	70 - 130	11	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-34181/1-A

Matrix: Solid

Analysis Batch: 34171

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34181

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/12/22 08:48	09/12/22 10:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/12/22 08:48	09/12/22 10:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/12/22 08:48	09/12/22 10:56	1

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

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

Lab Sample ID: MB 880-34181/1-A

Matrix: Solid

Analysis Batch: 34171

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 34181

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130	09/12/22 08:48	09/12/22 10:56	1
o-Terphenyl	109		70 - 130	09/12/22 08:48	09/12/22 10:56	1

Lab Sample ID: LCS 880-34181/2-A

Matrix: Solid

Analysis Batch: 34171

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 34181

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	984.6		mg/Kg		98	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1000		mg/Kg		100	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	144	S1+	70 - 130
o-Terphenyl	151	S1+	70 - 130

Lab Sample ID: LCSD 880-34181/3-A

Matrix: Solid

Analysis Batch: 34171

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 34181

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	765.3	*1	mg/Kg		77	70 - 130	25	20
Diesel Range Organics (Over C10-C28)	1000	859.3		mg/Kg		86	70 - 130	15	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	122		70 - 130
o-Terphenyl	130		70 - 130

Lab Sample ID: 890-2907-A-1-C MS

Matrix: Solid

Analysis Batch: 34171

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 34181

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1 *1	998	611.1	F1	mg/Kg		59	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	859.4		mg/Kg		83	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	93		70 - 130

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

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

Lab Sample ID: 890-2907-A-1-D MSD

Matrix: Solid

Analysis Batch: 34171

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 34181

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U F1 *1	995	585.4	F1	mg/Kg		57	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	<49.8	U	995	865.7		mg/Kg		84	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	99		70 - 130								
o-Terphenyl	93		70 - 130								

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-31561/1-A

Matrix: Solid

Analysis Batch: 32162

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			08/15/22 10:25	1

Lab Sample ID: LCS 880-31561/2-A

Matrix: Solid

Analysis Batch: 32162

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits			
Chloride	250	235.3		mg/Kg		94	90 - 110			

Lab Sample ID: LCSD 880-31561/3-A

Matrix: Solid

Analysis Batch: 32162

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	238.9		mg/Kg		96	90 - 110	1	20

Lab Sample ID: 880-17690-1 MS

Matrix: Solid

Analysis Batch: 32162

Client Sample ID: SS-1 (2.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	101		250	352.3		mg/Kg		100	90 - 110		

Lab Sample ID: 880-17690-1 MSD

Matrix: Solid

Analysis Batch: 32162

Client Sample ID: SS-1 (2.5')

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	101		250	355.1		mg/Kg		101	90 - 110	1	20

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## QC Sample Results

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-17770-A-1-C MS

Matrix: Solid

Analysis Batch: 32162

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	901	F1	249	1097	F1	mg/Kg		79	90 - 110		

Lab Sample ID: 880-17770-A-1-D MSD

Matrix: Solid

Analysis Batch: 32162

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	901	F1	249	1097	F1	mg/Kg		79	90 - 110	0	20

## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

## GC VOA

## Prep Batch: 31768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31768/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31768/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31768/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2704-A-9-D MS	Matrix Spike	Total/NA	Solid	5035	
890-2704-A-9-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Prep Batch: 31769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17690-6	SS-30 (2')	Total/NA	Solid	5035	
MB 880-31769/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31769/1-A	Lab Control Sample	Total/NA	Solid	5035	
880-17690-6 MS	SS-30 (2')	Total/NA	Solid	5035	
880-17690-6 MSD	SS-30 (2')	Total/NA	Solid	5035	

## Analysis Batch: 31904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17690-6	SS-30 (2')	Total/NA	Solid	8021B	31769
MB 880-31768/5-A	Method Blank	Total/NA	Solid	8021B	31768
MB 880-31769/5-A	Method Blank	Total/NA	Solid	8021B	31769
LCS 880-31768/1-A	Lab Control Sample	Total/NA	Solid	8021B	31768
LCS 880-31769/1-A	Lab Control Sample	Total/NA	Solid	8021B	31769
LCSD 880-31768/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31768
880-17690-6 MS	SS-30 (2')	Total/NA	Solid	8021B	31769
880-17690-6 MSD	SS-30 (2')	Total/NA	Solid	8021B	31769
890-2704-A-9-D MS	Matrix Spike	Total/NA	Solid	8021B	31768
890-2704-A-9-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31768

## Analysis Batch: 31981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17690-6	SS-30 (2')	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 34171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17690-5	SS-28 (2')	Total/NA	Solid	8015B NM	34181
MB 880-34181/1-A	Method Blank	Total/NA	Solid	8015B NM	34181
LCS 880-34181/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34181
LCSD 880-34181/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34181
890-2907-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	34181
890-2907-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	34181

## Prep Batch: 34181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17690-5	SS-28 (2')	Total/NA	Solid	8015NM Prep	
MB 880-34181/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34181/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34181/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2907-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2907-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

## GC Semi VOA

## Analysis Batch: 34380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17690-5	SS-28 (2')	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 31561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17690-1	SS-1 (2.5')	Soluble	Solid	DI Leach	
880-17690-2	SS-23 (2.5')	Soluble	Solid	DI Leach	
880-17690-3	SS-8 (2.5')	Soluble	Solid	DI Leach	
880-17690-4	SS-27 (2')	Soluble	Solid	DI Leach	
880-17690-5	SS-28 (2')	Soluble	Solid	DI Leach	
880-17690-6	SS-30 (2')	Soluble	Solid	DI Leach	
MB 880-31561/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31561/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31561/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-17690-1 MS	SS-1 (2.5')	Soluble	Solid	DI Leach	
880-17690-1 MSD	SS-1 (2.5')	Soluble	Solid	DI Leach	
880-17770-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-17770-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 32162

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-17690-1	SS-1 (2.5')	Soluble	Solid	300.0	31561
880-17690-2	SS-23 (2.5')	Soluble	Solid	300.0	31561
880-17690-3	SS-8 (2.5')	Soluble	Solid	300.0	31561
880-17690-4	SS-27 (2')	Soluble	Solid	300.0	31561
880-17690-5	SS-28 (2')	Soluble	Solid	300.0	31561
880-17690-6	SS-30 (2')	Soluble	Solid	300.0	31561
MB 880-31561/1-A	Method Blank	Soluble	Solid	300.0	31561
LCS 880-31561/2-A	Lab Control Sample	Soluble	Solid	300.0	31561
LCSD 880-31561/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31561
880-17690-1 MS	SS-1 (2.5')	Soluble	Solid	300.0	31561
880-17690-1 MSD	SS-1 (2.5')	Soluble	Solid	300.0	31561
880-17770-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	31561
880-17770-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31561

## Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

Client Sample ID: SS-1 (2.5')

Lab Sample ID: 880-17690-1

Date Collected: 08/02/22 12:10

Matrix: Solid

Date Received: 08/03/22 14:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	31561	08/05/22 10:34	CH	EET MID
Soluble	Analysis	300.0		1			32162	08/15/22 10:53	CH	EET MID

Client Sample ID: SS-23 (2.5')

Lab Sample ID: 880-17690-2

Date Collected: 08/02/22 12:15

Matrix: Solid

Date Received: 08/03/22 14:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	31561	08/05/22 10:34	CH	EET MID
Soluble	Analysis	300.0		1			32162	08/15/22 11:21	CH	EET MID

Client Sample ID: SS-8 (2.5')

Lab Sample ID: 880-17690-3

Date Collected: 08/02/22 12:20

Matrix: Solid

Date Received: 08/03/22 14:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	31561	08/05/22 10:34	CH	EET MID
Soluble	Analysis	300.0		1			32162	08/15/22 11:30	CH	EET MID

Client Sample ID: SS-27 (2')

Lab Sample ID: 880-17690-4

Date Collected: 08/02/22 12:25

Matrix: Solid

Date Received: 08/03/22 14:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.98 g	50 mL	31561	08/05/22 10:34	CH	EET MID
Soluble	Analysis	300.0		1			32162	08/15/22 11:39	CH	EET MID

Client Sample ID: SS-28 (2')

Lab Sample ID: 880-17690-5

Date Collected: 08/02/22 12:30

Matrix: Solid

Date Received: 08/03/22 14:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			34380	09/13/22 10:25	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34181	09/12/22 08:48	AM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34171	09/12/22 15:19	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	31561	08/05/22 10:34	CH	EET MID
Soluble	Analysis	300.0		1			32162	08/15/22 11:48	CH	EET MID

Client Sample ID: SS-30 (2')

Lab Sample ID: 880-17690-6

Date Collected: 08/02/22 12:35

Matrix: Solid

Date Received: 08/03/22 14:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	31769	08/08/22 13:23	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31904	08/10/22 15:09	SM	EET MID
Total/NA	Analysis	Total BTEX		1			31981	08/11/22 10:28	SM	EET MID

Eurofins Midland



Lab Chronicle

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

Client Sample ID: SS-30 (2')  
Date Collected: 08/02/22 12:35  
Date Received: 08/03/22 14:59

Lab Sample ID: 880-17690-6  
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5 g	50 mL	31561	08/05/22 10:34	CH	EET MID
Soluble	Analysis	300.0		1			32162	08/15/22 12:16	CH	EET MID

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

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## Accreditation/Certification Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

### Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-24	06-30-23

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

Eurofins Midland

## Method Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

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

### Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

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

Eurofins Midland

## Sample Summary

Client: Crain Environmental  
Project/Site: Bobbi State WF Unit #003

Job ID: 880-17690-1  
SDG: Lea Co., NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-17690-1	SS-1 (2.5')	Solid	08/02/22 12:10	08/03/22 14:59	2.5'
880-17690-2	SS-23 (2.5')	Solid	08/02/22 12:15	08/03/22 14:59	2.5'
880-17690-3	SS-8 (2.5')	Solid	08/02/22 12:20	08/03/22 14:59	2.5'
880-17690-4	SS-27 (2')	Solid	08/02/22 12:25	08/03/22 14:59	2'
880-17690-5	SS-28 (2')	Solid	08/02/22 12:30	08/03/22 14:59	2'
880-17690-6	SS-30 (2')	Solid	08/02/22 12:35	08/03/22 14:59	2'





## Environment Testing

Houston, TX (281) 240-4200, Dallas TX (214) 902-0300  
Midland, TX (432) 704-5440 San Antonio, TX (210) 509-3334  
El Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7550 Carlsbad, NM (575) 988-3199

## Chain of Custody

Work Order No: 114010

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Project Manager	Lindy Crain	Bill to: (if different)	Ralph Butler
Company Name:	Crain Environmental	Company Name:	Eland / Surdawn
Address:	2425 E. 17th St.	Address:	14200 Dallas Pkwy Ste. 100
City, State ZIP	Odessa, TX 79761	City, State ZIP	Dallas, TX 75248
Phone:	(575) 441-7244	Email	Lindy.Crain@gmail.com

Work Order Comments				
Program:	UST/PST <input type="checkbox"/>	PRRP <input type="checkbox"/>	Brownfields <input type="checkbox"/>	RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	NA			
Reporting	Level II <input type="checkbox"/>	Level III <input type="checkbox"/>	PST/UST <input type="checkbox"/>	TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables:	EDD <input type="checkbox"/>	ADAPT <input type="checkbox"/>	Other: _____	

Project Name:		Bobbie Skate W/F Unif #003		Turn Around	
Project Number:		-		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	
Project Location		Lea Co. NH		Due Date: 8/10/22	
Sampler's Name:		Lindy Crain		TAT starts the day received by the lab, if received by 4:30pm	
PO #					
SAMPLE RECEIPT		Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Samples Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID: T100	
Cooler Custody Seals:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Correction Factor: .2	
Sample Custody Seals:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Temperature Reading: 5.3	
Total Containers:				Corrected Temperature: 6.5	
Parameters					
Pres. Code					
ANALYSIS REQUEST					
Preservative Codes					
None		DI Water, H <sub>2</sub> O			
Cool		MeOH			
HCL		HNO <sub>3</sub>			
H <sub>2</sub> SO <sub>4</sub>		NaOH			
H <sub>3</sub> PO <sub>4</sub>		HP			
NaHSO <sub>4</sub>		NABIS			
Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>		NaSO <sub>3</sub>			
Zn Acetate		NaOH			
NaOH		Ascorbic Acid			
SAPC		NaOH			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont
55-1 (2.5')	S	8/2/22	1210	2.5'	L	1
55-23 (2.5')	I	I	1215	2.5'	I	I
55-8 (2.5')	I	I	1220	2.5'	I	I
55-27 (2')	I	I	1225	2'	I	I
55-28 (2')	I	I	1230	2'	I	I
55-30 (2')	V	V	1235	2'	V	V

Ch.  
TP  
BTL

202

880-17690 Chain of Custody

880-17690 Chain of Custody



Total 2007 / 6010	2008 / 6020:	
Circle Method(s) and Metal(s) to be analyzed		
8RCRA 13PPM Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO <sub>2</sub> Na Sr Ti Sn U V Zn	
TCLP / SPLP 6010 8RCRA 5b As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U		Hg 1631 / 245.1 / 7470 / 7471

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenico, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenico will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenico. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenico, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	8/3/22	2		
3		14:59	4		
5			6		

## Login Sample Receipt Checklist

Client: Crain Environmental

Job Number: 880-17690-1

SDG Number: Lea Co., NM

**Login Number: 17690****List Number: 1****Creator: Rodriguez, Leticia****List Source: Eurofins Midland**

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

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 142216

CONDITIONS

Operator:  SUNDOWN ENERGY LP 16400 Dallas Pkwy Dallas, TX 75248	OGRID:  232611
	Action Number:  142216
	Action Type:  [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Amended lab data attached to report for sample SS-28.	9/14/2022