

**NM2 - \_\_\_\_\_21\_\_\_\_\_**

**GENERAL  
CORRESPONDENCE  
YEAR(S):**

**\_\_\_\_\_2013 - 2015\_\_\_\_\_**

State of New Mexico  
Energy, Minerals and Natural Resources Department

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**Susana Martinez**  
Governor

**David Martin**  
Cabinet Secretary

**Brett F. Woods, Ph.D.**  
Deputy Cabinet Secretary

**Jami Bailey, Division Director**  
Oil Conservation Division



April 4, 2014

Carolyn Haynes  
John H. Hendrix Corporation  
P.O. Box 3040  
Midland, Texas 79702

**RE: 2013 Operations and Monitoring Report Review**  
**John H. Hendrix Corporation**  
**Permit NM2-021**  
**Location: Unit E of Section 15, Township 24 South, Range 36 East, NMPM**  
**Lea County, New Mexico**

Dear Ms. Haynes:

The Oil Conservation Division (OCD) has completed the review of John H. Hendrix Corporation's (JHHC) 2013 Operations and Monitoring Report, dated March 19, 2014. OCD has determined that exceedances above the established background were detected in the vadose zone but were not identified or discussed within the report and required follow-up actions were not completed. Also, the incorrect test method for TPH was utilized and demonstrated in regards to vadose zone monitoring.

Pursuant to Paragraph (5) of 19.15.36.15.E NMAC, "If vadose zone sampling results show that the concentrations of TPH, BTEX or chlorides exceed the higher of the PQL or the background soil concentrations, then the operator shall notify the division's environmental bureau of the exceedance, and shall immediately collect and analyze a minimum of four randomly selected, independent samples for TPH, BTEX, chlorides and the constituents listed in Subsections A and B of 20.6.2.3103 NMAC. The operator shall submit the results of the re-sampling event and a response action plan for the division's approval within 45 days of the initial notification. The response action plan shall address changes in the landfarm's operation to prevent further contamination and, if necessary, a plan for remediating existing contamination." The established Chloride background concentration for the landfarm facility is identified as less than 20 mg/kg. Table 1 of the 2013 Operations and Monitoring Report demonstrates Chloride exceedances 3 feet below the native ground surface for Cells 1A, 1B, 10B, and 11B. The established DRO background concentration for the landfarm facility is identified as less than 10 mg/kg. Table 1 demonstrates that DRO was detected 3 feet below the native ground surface in Cell 10C.

The submittal of an annual report does not negate the responsibility of the facility operator to meet regulatory deadlines to complete specified tasks or to resolve an outstanding operational

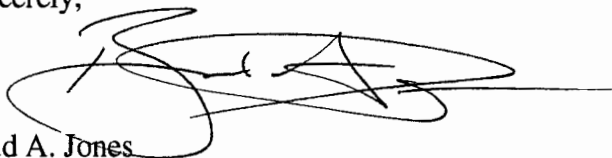
John H. Hendrix Corp.  
Permit NM2-021  
April 4, 2014  
Page 2 of 2

compliance issue. Please complete the required actions of Paragraph (5) of 19.15.36.15.E NMAC and provide OCD the additional sampling results and a response action plan within 120 days of receipt of this letter.

In regards to utilizing the proper TPH test method for vadose zone monitoring, in accordance with Paragraph (2) of 19.15.36.15.E NMAC the operator shall analyze the samples from the vadose zone "using the methods specified below for TPH, BTEX and chlorides and shall compare each result to the higher of the PQL or the background soil concentrations to determine whether a release has occurred." The "methods specified below for TPH, BTEX and chlorides" are those identified in Subsection F of 19.15.36.15 NMAC: such as "TPH, as determined by *EPA method 418.1* or other EPA method approved by the division..." Pursuant to the Transitional Provisions of Subsection A of 19.15.36.20.NMAC, "Existing surface waste management facilities shall comply with the operational, waste acceptance and closure requirements provided in 19.15.36 NMAC, except as otherwise specifically provided in the applicable permit or order, or in a specific waiver, exception or agreement that the division has granted in writing to the particular surface waste management facility." On January 4, 2006 OCD approved a modification to Condition 3 under Treatment Zone Monitoring of JHHC's November 29, 2004 permit (NM2-021) to reduce the quarterly sampling frequency to semi-annual. Condition 7 of OCD's January 4, 2006 modification approval states "Treatment Zone Monitoring: JHHC or its agent will collect a background treatment zone sample from each landfarm cell. Treatment zone samples will be collected semi-annually thereafter in active cells, and within six (6) months after waste is first placed in a new cell. Four (4) samples will be collected from each cell and analyzed for BTEX (benzene, toluene, ethylbenzene, and xylene) and TPH (total petroleum hydrocarbons). Samples from every second semi-annual sampling event will be analyzed for TPH, BTEX, total RCRA metals, and major cations and anions. JHHC will notify the NMOCD 48 hours prior to each sampling event. Laboratory analyses will be submitted to the NMOCD Santa Fe office within 45 days following receipt of the laboratory report." The modification only identified the constituent and does specify the test method. Part 36 specifies EPA Method 418.1 as the required vadose zone analyses for TPH. Please submit all future vadose zone sampling results demonstrating TPH by EPA Method 418.1.

Please complete the required actions of Paragraph (5) of 19.15.36.15.E NMAC and provide OCD the additional sampling results, a response action plan, and submit the sampling results demonstrating TPH by EPA Method 418.1 within 120 days of receipt of this letter. If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or [brad.a.jones@state.nm.us](mailto:brad.a.jones@state.nm.us).

Sincerely,

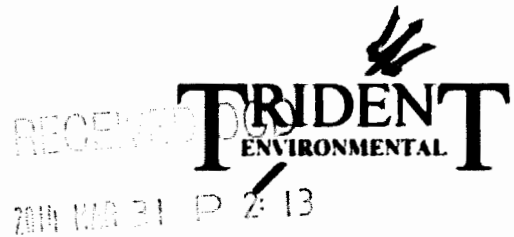


Brad A. Jones  
Environmental Engineer

BAJ/baj

cc: OCD District I Office, Hobbs

*Delivery Confirmation No.*  
9405 5118 9956 0682 5376 58



March 25, 2014

Mr. Brad Jones  
New Mexico Energy, Minerals, & Natural Resources  
Oil Conservation Division, Environmental Bureau  
1220 S. St. Francis Drive  
Santa Fe, New Mexico 87504

**Re: Centralized Surface Waste Management Facility NM-02-0021  
2013 Operations and Monitoring Report  
John H. Hendrix Corporation  
Section 15, Township 24 South, Range 36 East, Lea County, New Mexico**

Dear Mr. Jones:

Trident Environmental, as agent for John H. Hendrix Corporation (JHHC), submits this report to the New Mexico Oil Conservation Division (OCD) for centralized surface waste management facility NM-02-0021 (facility). This report includes the monitoring results for soil and groundwater samples collected during calendar year 2013. Please refer to previous annual reports for operations background, sampling procedures, and historical data results.

We appreciate the opportunity to work with you on this project. Please feel free to call me at 432-638-8740 or Carolyn Haynes at 432-684-6631, if you have any questions.

Sincerely,

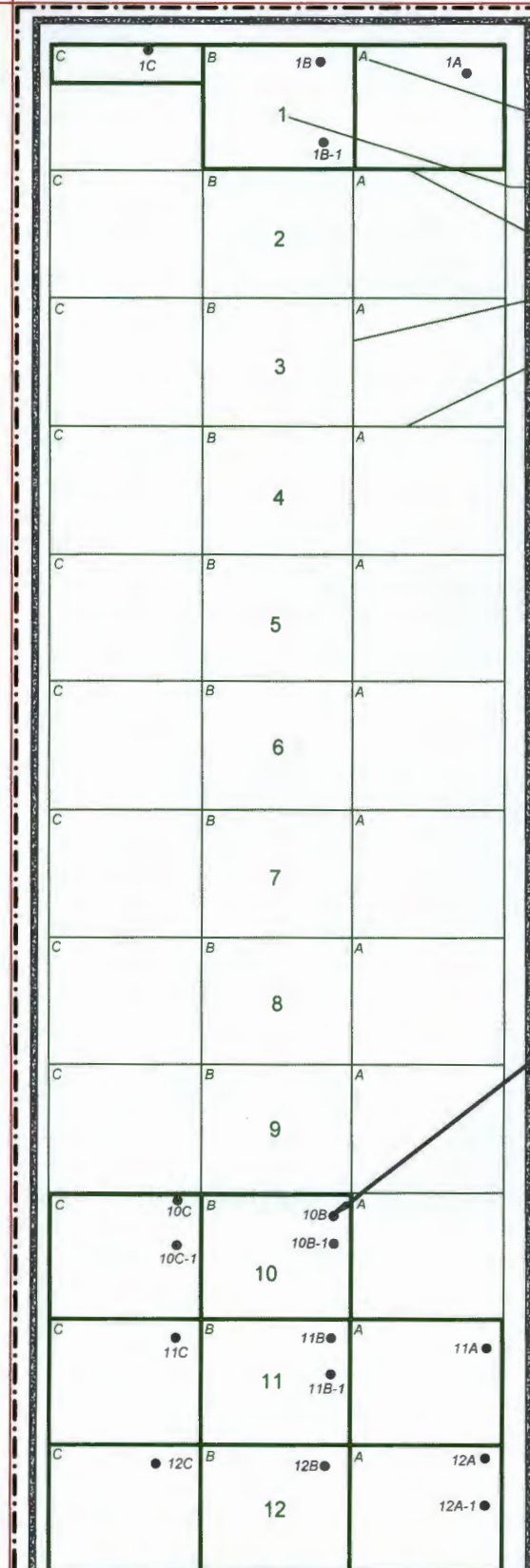
A handwritten signature in black ink, appearing to read "Gil Van Deventer", written in a cursive style.

Gilbert J. Van Deventer, REM, PG  
Trident Environmental - Project Manager

Enclosures: Laboratory results in tabular format, site maps with sample locations, and lab analytical reports

cc: Carolyn Haynes (JHHC)  
Geoffrey Leking (OCD-District 1)

9 | 10



## LEGEND

Sub-Cell Letter

Main Cell Number

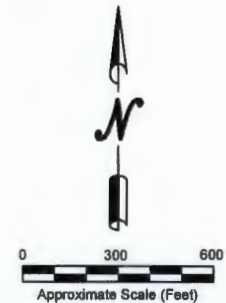
24" Earthen Berm

Sub-Cell Boundary Line

Main Cell Boundary Line

Fence

Road



10B SOIL SAMPLE LOCATIONS (Approximate)  
 Treatment Zone (~ 1' bgs)  
 Vadose Zone (~ 3' bgs)

Sample ID	Latitude	Longitude
1A	N32° 13' 27.1"	W103° 15' 25.0"
1B	N32° 13' 27.3"	W103° 15' 30.0"
1B-1	N32° 13' 25.1"	W103° 15' 30.1"
1C	N32° 13' 27.7"	W103° 15' 36.8"
10B	N32° 12' 48.8"	W103° 15' 30.2"
10B-1	N32° 12' 47.9"	W103° 15' 30.2"
10C	N32° 12' 49.3"	W103° 15' 36.0"
10C-1	N32° 12' 47.8"	W103° 15' 36.0"
11A	N32° 12' 44.5"	W103° 15' 24.0"
11B	N32° 12' 44.8"	W103° 15' 30.3"
11B-1	N32° 12' 43.6"	W103° 15' 30.3"
11C	N32° 12' 44.9"	W103° 15' 36.0"
12A	N32° 12' 40.8"	W103° 15' 24.2"
12A-1	N32° 12' 39.7"	W103° 15' 24.4"
12B	N32° 12' 40.7"	W103° 15' 30.6"
12C	N32° 12' 41.0"	W103° 15' 36.3"

16 | 15

21 | 22

Cooper Cemetery Road (CR 7)



John H. Hendrix Corp.  
 Centralized Landfarm (NM-02-021)  
 T24S - R36E - Section 15 (W/2)  
 Lea County, New Mexico

FIGURE 2a

Sample Location Map  
 March 19, 2013



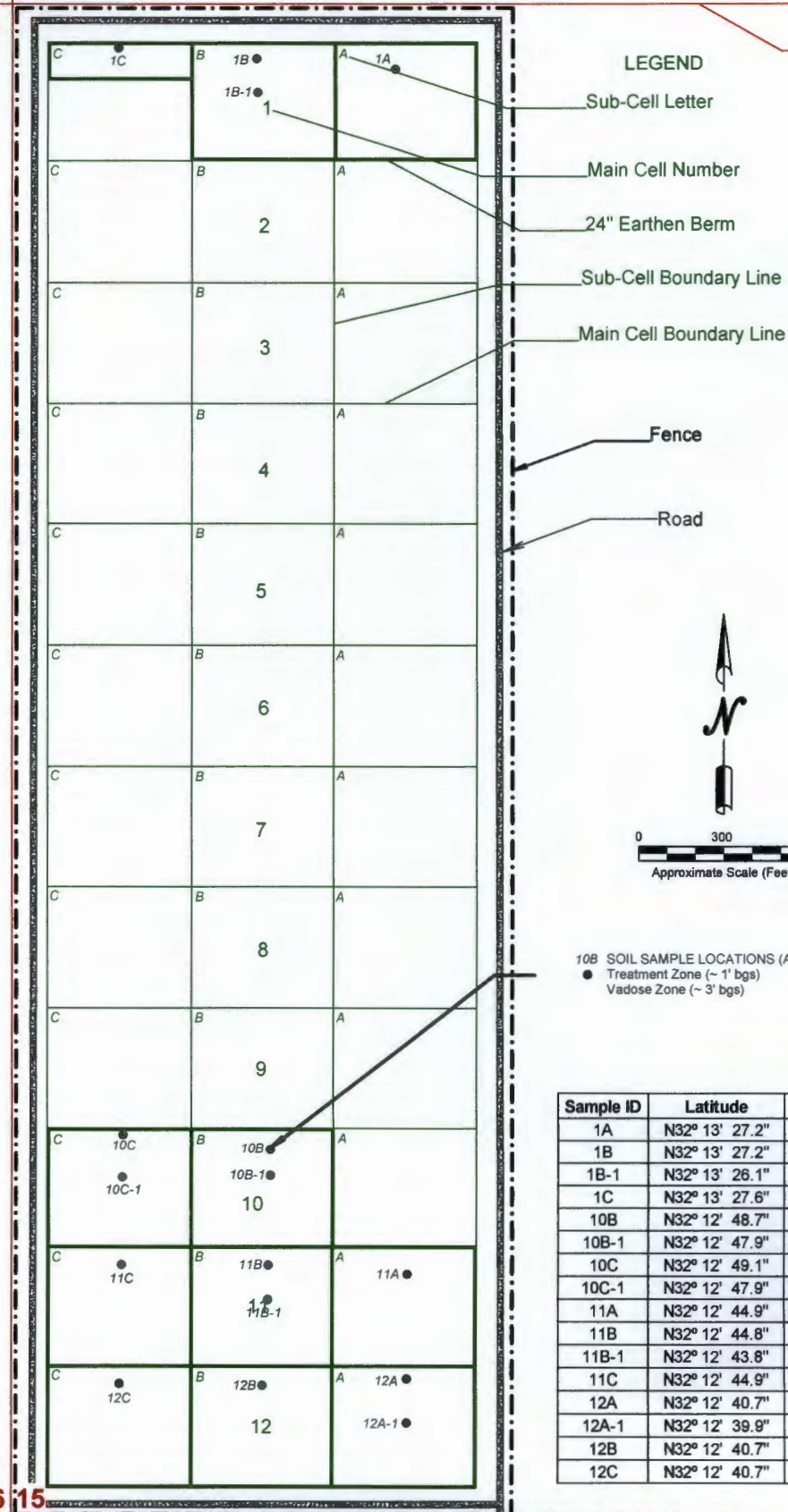


Table 1

## Summary of BTEX, TPH, and Chloride Concentrations - Soil Analytical Results

Cell No. Ltr.	Sample Date	Sample Zone	Sample ID (Depth)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Xylene (mg/kg)	BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	TPH C6-C28 (mg/kg)	Chloride (mg/kg)
7B	11/29/04	Background	Facility (2' -3')	<0.025	<0.025	<0.025	<0.025	<0.1	<10	<10	<20	<20
1A	03/19/13	Treatment	1A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	9.1
	11/05/13		1A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	20
	03/19/13	Vadose	1A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	80
	11/05/13		1A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	430
1B	03/19/13	Treatment	1B (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	7.7
	03/19/13		1B-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	33
	11/05/13		1B (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	<16
	11/05/13		1B-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	68
	03/19/13	Vadose	1B (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	32
	03/19/13		1B-1 (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	128
	11/05/13		1B (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	240
	11/05/13		1B-1 (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	24
1C	03/19/13	Treatment	1C (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	9.1
	11/05/13	Vadose	1C (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	12.9
	03/19/13		1C (3')	<0.500	<0.050	<0.50	<0.150	<0.300	<10	<10	<20	80
	11/05/13		1C (3')	<0.500	<0.050	<0.50	<0.150	<0.300	<10	<10	<20	24
10B	03/19/13	Treatment	10B (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	30
	03/19/13		10B-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	51.1	51.1	48
	11/05/13		10B (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<50	3800	3800	216
	11/05/13		10B-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<50	872	872	110
	03/19/13	Vadose	10B (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	9.0
	03/19/13		10B-1 (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	17
	11/05/13		10B (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	48
	11/05/13		10B-1 (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	10	<20	140
10C	03/19/13	Treatment	10C (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<50	70.1	70.1	15
	03/19/13		10C-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<50	9170	9170	352
	11/05/13		10C (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<50	181	181	44
	11/05/13		10C-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	34	34	<16
	03/19/13	Vadose	10C (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	25
	03/19/13		10C-1 (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	15.2	<25	9.0
	11/05/13		10C (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	32
	11/05/13		10C-1 (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	<16

Table 1

## Summary of BTEX, TPH, and Chloride Concentrations - Soil Analytical Results

Cell No. Ltr.	Sample Date	Sample Zone	Sample ID (Depth)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	TPH C6-C28 (mg/kg)	Chloride (mg/kg)
11A	03/19/13	Treatment	11A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<50	81	81	11
	11/05/13		11A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	17.4	<20	<16
	03/19/13	Vadose	11A (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	32
	11/05/13		11A (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	84
11B	03/19/13		11B (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<50	238	238	31
	03/19/13	Treatment	11B-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	46.3	46.3	17
	11/05/13		11B (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	<16
	11/05/13		11B-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<50	80.4	80.4	52
	03/19/13		11B (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	128
	03/19/13	Vadose	11B-1 (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	8
	11/05/13		11B (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	20
	11/05/13		11B-1 (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	88
11C	03/19/13	Treatment	11C (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<50	<50	<100	32
	11/05/13		11C (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	11.1	11.1	<16
	03/19/13	Vadose	11C (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	80
	11/05/13		11C (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	<16
12A	03/19/13		12A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	8
	03/19/13	Treatment	12A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	6
	11/05/13		12A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<50	115	115	<16
	11/05/13		12A-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	19.7	<30	<16
	03/19/13		12A (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	<16
	03/19/13	Vadose	12A-1 (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	<16
	11/05/13		12A (3')	<0.050	0.079	<0.050	<0.150	<0.300	<10	<10	<20	32
	11/05/13		12A-1 (3')	<0.050	0.050	<0.050	<0.150	<0.300	<10	<10	<20	10
12B	03/19/13	Treatment	12B (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	9
	11/05/13		12B (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	<16
	03/19/13	Vadose	12B (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	32
	11/05/13		12B (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	<16
12C	03/19/13	Treatment	12C (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	10
	11/05/13		12C (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	<16
	03/19/13	Vadose	12C (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	13
	11/05/13		12C (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	<16



**Table 2**  
**Summary of Metal Concentrations - Soil Analytical Results**

Cell No.	Sample Date	Sample Type	Sample ID (Depth in Ft)	Subsection A Metals (mg/kg)								Subsection B Metals (mg/kg)				
				As	Ag	Ba	Cd	Cr	Pb	Hg	Se	Cu	Fe	Mn	Zn	
7B	11/29/04	Background	Facility (2' -3')	3.65	<0.25	507	0.341	3.01	0.5	<0.25	<0.2	---	---	---	---	
1A	04/12/07	Background	SS-1A (2' -3')	3.23	<0.094	55.4	0.196	13.4	6.84	<0.016	1.70	---	---	---	---	
	11/05/13	Vadose	1A (3')	3.14	<0.012	58.8	0.315	9.24	6.75	0.028	<0.411	2.3	12,000	57.0	25.6	
1B	04/12/07	Background	SS-1B (2' -3')	3.05	<0.086	48.4	0.178	12.5	6.30	<0.014	1.46	---	---	---	---	
	11/05/13	Vadose	1B (3')	2.65	<0.012	41.8	0.218	7.27	5.52	0.014	<0.411	1.6	10,100	51.7	22.3	
11/05/13			1B-1 (3')	0.885	<0.012	19.5	0.131	3.63	2.74	<0.101	<0.411	1.76	4,830	57.8	10.6	
	04/12/07	Background	SS-1C (2' -3')	2.24	<0.175	46.8	0.142	9.14	5.13	<0.04	1.35	---	---	---	---	
1C	11/05/13	Vadose	1C (3')	2.27	<0.012	40.2	0.260	6.53	4.67	0.013	<0.411	1.88	8,770	62.2	20.3	
10B	01/07/08	Background	10B (2' -3')	1.24	<0.2	23.0	<0.3	5.24	3.05	<0.04	1.01	---	---	---	---	
	11/05/13	Vadose	10B (3')	1.08	<0.012	26.6	0.139	4.04	2.67	0.011	<0.411	1.99	4,090	45.7	11.4	
11/05/13			10B-1 (3')	1.37	<0.012	30.4	0.200	4.58	3.86	0.012	<0.411	2.01	6,690	68.7	17.1	
10C	01/07/08	Background	10C (2' -3')	1.43	<0.2	23.5	<0.3	5.31	3.36	<0.04	1.08	---	---	---	---	
	11/05/13	Vadose	10C (3')	1.89	<0.012	31.2	0.222	5.47	4.54	0.012	<0.411	1.78	7,170	70.3	20.4	
11/05/13			10C-1 (3')	1.53	<0.012	33.5	0.232	5.20	3.64	0.014	<0.411	2.12	6,370	54.0	15.8	
11A	01/07/08	Background	11A (2' -3')	1.53	<0.2	27.1	<0.3	5.93	3.46	<0.04	0.938	---	---	---	---	
	11/05/13	Vadose	11A (3')	2.07	<0.012	52.9	0.296	7.05	5.03	0.014	<0.411	2.57	9,250	73.9	24.1	
11B	01/07/08	Background	11B (2' -3')	1.23	<0.2	21.8	<0.3	4.98	3.53	<0.04	0.735	---	---	---	---	
	11/05/13	Vadose	11B (3')	2.00	<0.012	42.3	0.221	6.40	4.24	0.013	<0.411	1.61	7,720	49.8	17.0	
11/05/13			11B-1 (3')	1.61	<0.012	29.0	0.182	5.06	3.56	0.018	<0.411	1.6	6,680	50.3	15.7	
11C	10/15/07	Background	SS-11C (2' -3')	2.67	<0.2	300	0.113	5.47	2.62	<0.04	0.490	---	---	---	---	
	11/05/13	Vadose	11C (3')	1.75	<0.012	32.0	0.175	5.36	4.10	0.016	<0.411	1.85	7,210	71.1	17.5	
12A	04/12/07	Background	SS-12A (2' -3')	2.90	<0.2	50.8	0.176	11.4	5.61	<0.04	1.40	---	---	---	---	
	11/05/13	Vadose	12A (3')	1.45	<0.012	31.7	0.136	5.09	4.07	0.014	<0.411	1.78	6,490	63.1	15.3	
11/05/13			12A-1 (3')	2.35	<0.012	45.0	0.267	6.65	5.06	0.014	<0.411	1.92	9,610	66.2	21.7	
12B	01/07/08	Background	SS-12B (2' -3')	2.58	<0.2	236	0.202	5.76	3.08	<0.04	1.07	---	---	---	---	
	11/05/13	Vadose	12B (3')	1.79	<0.012	31.3	0.210	5.91	4.09	0.012	<0.411	1.6	7,270	60.2	16.5	
12C	04/12/07	Background	SS-12C (2' -3')	1.89	<0.2	62.6	0.152	6.43	3.60	<0.04	1.34	---	---	---	---	
	11/05/13	Vadose	12C (3')	1.71	<0.012	38.3	0.203	6.07	4.18	0.015	<0.411	2.00	7,290	70.0	17.6	
Background Screening Values				3.84	0.273	507	0.341	13.4	7.20	0.156	1.81	---	---	---	---	

**Table 3**  
**Summary of Major Ion Concentrations - Soil Analytical Results**

Cell No.	Sample Date	Sample Zone	Sample ID (Depth)	Cations (mg/kg)				Anions (mg/kg)			
				Ca	Mg	K	Na	Cl <sup>-</sup>	SO <sub>4</sub>	T-Alk	HCO <sub>3</sub>
7B	11/29/04	Background	Facility (2' -3')	220,000	2,240	274	2,060	<20	<2.5	1,340	---
1A	04/12/07	Background	SS-1A (2' -3')	1,650	2,300	2,980	30.5	<4.98	<9.96	76.1	---
	11/05/13	Vadose	1A (3')	1,700	2,000	2,420	846	430	661	20.0	24.4
1B	04/12/07	Background	SS-1B (2' -3')	1,570	2,140	2,950	30.2	<4.96	<9.92	89.1	---
	11/05/13	Vadose	1B (3')	1,790	1,870	2,190	139	240	14.3	52.0	64.0
	11/05/13		1B-1 (3')	571	684	1,080	153	24.0	<500	220	210
1C	04/12/07	Background	SS-1C (2' -3')	2,290	1,720	1,740	19.2	<4.93	<9.86	166	<49.8
	11/05/13	Vadose	1C (3')	1,250	1,400	1,960	58.7	24.0	<500	88.0	107
10B	01/07/08	Background	10B (2' -3')	533	602	968	<12.5	<5.21	<10.4	<52.1	<52.1
	11/05/13	Vadose	10B (3')	8,440	670	848	3.41	48	27.9	84.0	102
	11/05/13		10B-1 (3')	1,280	1,120	1,330	28.2	140	127	112	137
10C	01/07/08	Background	10C (2' -3')	513	554	898	<12.6	<5.13	<10.3	<51.0	<51.0
	11/05/13	Vadose	10C (3')	1,110	1,140	1,420	103	32	220	32.0	39.0
	11/05/13		10C-1 (3')	1,640	1,090	1,280	8.06	<16	129	100	122
11A	01/07/08	Background	11A (2' -3')	642	658	1,030	<12.7	<5.17	<10.3	56.0	56.0
	11/05/13	Vadose	11A (3')	3,110	1,570	1,970	65.0	84	<125	108	132
11B	01/07/08	Background	11B (2' -3')	482	494	809	<12.6	<5.14	<10.3	<51.6	<51.6
	11/05/13	Vadose	11B (3')	1,340	1,170	1,560	207	20	375	416	508
	11/05/13		11B-1 (3')	1,770	1,100	1,440	208	88	201	108	132
11C	10/15/07	Background	SS-11C (2' -3')	170,000	2,160	1,090	73	<5.64	41.4	318	<56.6
	11/05/13	Vadose	11C (3')	1,280	1,170	1,360	14.8	<16	116	8.0	10.0
12A	04/12/07	Background	SS-12A (2' -3')	1,980	2,030	2,210	23.2	<4.97	<9.94	163	<50
	11/05/13	Vadose	12A (3')	982	1,020	1,340	34.2	32	<250	188	229
	11/05/13		12A-1 (3')	1,580	1,620	2,100	135	10	<500	196	239
12B	01/07/08	Background	SS-12B (2' -3')	256,000	3,330	1,320	91	<4.88	23	700	<49.8
	11/05/13	Vadose	12B (3')	1,110	1,140	1,510	37.9	4	<500	152	185
12C	04/12/07	Background	SS-12C (2' -3')	53,400	1,170	1,280	29.9	<4.97	<9.94	506	<49.8
	11/05/13	Vadose	12C (3')	1,470	1,270	1,450	5.17	<16	791	44.0	54.0



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

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March 27, 2013

CAROLYN DORAN HAYNES

JOHN H. HENDRIX CORPORATION

P. O. BOX 3040

MIDLAND, TX 79702

RE: JHHC SWMF NM-02-0021

Enclosed are the results of analyses for samples received by the laboratory on 03/19/13 16:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list on accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 CAROLYN DORAN HAYNES  
 P. O. BOX 3040  
 MIDLAND TX, 79702  
 Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 1 A (1') (H300659-01)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/25/2013	ND	2.32	116	2.00	4.19	
Toluene*	<0.050	0.050	03/25/2013	ND	2.33	116	2.00	3.80	
Ethylbenzene*	<0.050	0.050	03/25/2013	ND	2.27	113	2.00	3.85	
Total Xylenes*	<0.150	0.150	03/25/2013	ND	6.89	115	6.00	3.13	
Total BTEX	<0.300	0.300	03/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9.10	4.00	03/27/2013	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/20/2013	ND	195	97.5	200	5.07	
DRO >C10-C28	<10.0	10.0	03/20/2013	ND	199	99.7	200	5.47	

Surrogate: 1-Chlorooctane 91.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
CAROLYN DORAN HAYNES  
P. O. BOX 3040  
MIDLAND TX, 79702  
Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 1 A (3') (H300659-02)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2013	ND	2.32	116	2.00	4.19	
Toluene*	<0.050	0.050	03/21/2013	ND	2.33	116	2.00	3.80	
Ethylbenzene*	<0.050	0.050	03/21/2013	ND	2.27	113	2.00	3.85	
Total Xylenes*	<0.150	0.150	03/21/2013	ND	6.89	115	6.00	3.13	
Total BTEX	<0.300	0.300	03/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 130 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/21/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/20/2013	ND	195	97.5	200	5.07	
DRO >C10-C28	<10.0	10.0	03/20/2013	ND	199	99.7	200	5.47	


Surrogate: 1-Chlorooctane 89.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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 CAROLYN DORAN HAYNES  
 P. O. BOX 3040  
 MIDLAND TX, 79702  
 Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 1 B (1') (H300659-03)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2013	ND	2.32	116	2.00	4.19	
Toluene*	<0.050	0.050	03/21/2013	ND	2.33	116	2.00	3.80	
Ethylbenzene*	<0.050	0.050	03/21/2013	ND	2.27	113	2.00	3.85	
Total Xylenes*	<0.150	0.150	03/21/2013	ND	6.89	115	6.00	3.13	
Total BTEX	<0.300	0.300	03/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 126 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7.70	4.00	03/27/2013	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/20/2013	ND	195	97.5	200	5.07	
DRO >C10-C28	<10.0	10.0	03/20/2013	ND	199	99.7	200	5.47	

Surrogate: 1-Chlorooctane 93.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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 MIDLAND TX, 79702  
 Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 1 B (3') (H300659-04)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2013	ND	2.32	116	2.00	4.19	
Toluene*	<0.050	0.050	03/21/2013	ND	2.33	116	2.00	3.80	
Ethylbenzene*	<0.050	0.050	03/21/2013	ND	2.27	113	2.00	3.85	
Total Xylenes*	<0.150	0.150	03/21/2013	ND	6.89	115	6.00	3.13	
Total BTEX	<0.300	0.300	03/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 128 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/21/2013	ND	432	108	400	0.00	

TPH 8015M		mg/ kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/20/2013	ND	195	97.5	200	5.07	
DRO >C10-C28	<10.0	10.0	03/20/2013	ND	199	99.7	200	5.47	

Surrogate: 1-Chlorooctane 90.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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Teley D. Keene, Lab Director/Quality Manager

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 P. O. BOX 3040  
 MIDLAND TX, 79702  
 Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 1 B - 1 (1') (H300659-05)**

BTEX 8021B		mg/kg		Analyzed By: AP				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2013	ND	2.32	116	2.00	4.19	
Toluene*	<0.050	0.050	03/21/2013	ND	2.33	116	2.00	3.80	
Ethylbenzene*	<0.050	0.050	03/21/2013	ND	2.27	113	2.00	3.85	
Total Xylenes*	<0.150	0.150	03/21/2013	ND	6.89	115	6.00	3.13	
Total BTEX	<0.300	0.300	03/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 127 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	33.3	4.00	03/27/2013	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/20/2013	ND	195	97.5	200	5.07	
DRO >C10-C28	<10.0	10.0	03/20/2013	ND	199	99.7	200	5.47	

Surrogate: 1-Chlorooctane 92.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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 Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 1 B - 1 (3') (H300659-06)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2013	ND	2.32	116	2.00	4.19	
Toluene*	<0.050	0.050	03/21/2013	ND	2.33	116	2.00	3.80	
Ethylbenzene*	<0.050	0.050	03/21/2013	ND	2.27	113	2.00	3.85	
Total Xylenes*	<0.150	0.150	03/21/2013	ND	6.89	115	6.00	3.13	
Total BTEX	<0.300	0.300	03/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 124 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/21/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/20/2013	ND	195	97.5	200	5.07	
DRO >C10-C28	<10.0	10.0	03/20/2013	ND	199	99.7	200	5.47	

Surrogate: 1-Chlorooctane 90.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
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 P. O. BOX 3040  
 MIDLAND TX, 79702  
 Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 1 C (1') (H300659-07)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2013	ND	2.32	116	2.00	4.19	
Toluene*	<0.050	0.050	03/21/2013	ND	2.33	116	2.00	3.80	
Ethylbenzene*	<0.050	0.050	03/21/2013	ND	2.27	113	2.00	3.85	
Total Xylenes*	<0.150	0.150	03/21/2013	ND	6.89	115	6.00	3.13	
Total BTEX	<0.300	0.300	03/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 122 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9.10	4.00	03/27/2013	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/20/2013	ND	195	97.5	200	5.07		
DRO >C10-C28	<10.0	10.0	03/20/2013	ND	199	99.7	200	5.47		

Surrogate: 1-Chlorooctane 93.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
CAROLYN DORAN HAYNES  
P. O. BOX 3040  
MIDLAND TX, 79702  
Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 1 C (3') (H300659-08)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2013	ND	2.32	116	2.00	4.19	
Toluene*	<0.050	0.050	03/21/2013	ND	2.33	116	2.00	3.80	
Ethylbenzene*	<0.050	0.050	03/21/2013	ND	2.27	113	2.00	3.85	
Total Xylenes*	<0.150	0.150	03/21/2013	ND	6.89	115	6.00	3.13	
Total BTEX	<0.300	0.300	03/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/21/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/20/2013	ND	195	97.5	200	5.07	
DRO >C10-C28	<10.0	10.0	03/20/2013	ND	199	99.7	200	5.47	

Surrogate: 1-Chlorooctane 77.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.2 % 63.6-154

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Deley D. Keene, Lab Director/Quality Manager

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 MIDLAND TX, 79702  
 Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 10 B (1') (H300659-09)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2013	ND	2.32	116	2.00	4.19	
Toluene*	<0.050	0.050	03/21/2013	ND	2.33	116	2.00	3.80	
Ethylbenzene*	<0.050	0.050	03/21/2013	ND	2.27	113	2.00	3.85	
Total Xylenes*	<0.150	0.150	03/21/2013	ND	6.89	115	6.00	3.13	
Total BTEX	<0.300	0.300	03/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	30.0	4.00	03/27/2013	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/20/2013	ND	195	97.5	200	5.07		
DRO >C10-C28	<10.0	10.0	03/20/2013	ND	199	99.7	200	5.47		

Surrogate: 1-Chlorooctane 89.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 10 B (3') (H300659-10)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2013	ND	2.32	116	2.00	4.19	
Toluene*	<0.050	0.050	03/21/2013	ND	2.33	116	2.00	3.80	
Ethylbenzene*	<0.050	0.050	03/21/2013	ND	2.27	113	2.00	3.85	
Total Xylenes*	<0.150	0.150	03/21/2013	ND	6.89	115	6.00	3.13	
Total BTEX	<0.300	0.300	03/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 121 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9.00	4.00	03/27/2013	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/20/2013	ND	195	97.5	200	5.07	
DRO >C10-C28	<10.0	10.0	03/20/2013	ND	199	99.7	200	5.47	

Surrogate: 1-Chlorooctane 79.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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 Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 10 B - 1 (1') (H300659-11)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2013	ND	2.32	116	2.00	4.19	
Toluene*	<0.050	0.050	03/21/2013	ND	2.33	116	2.00	3.80	
Ethylbenzene*	<0.050	0.050	03/21/2013	ND	2.27	113	2.00	3.85	
Total Xylenes*	<0.150	0.150	03/21/2013	ND	6.89	115	6.00	3.13	
Total BTEX	<0.300	0.300	03/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 121 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/21/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/20/2013	ND	195	97.5	200	5.07	
DRO >C10-C28	51.1	10.0	03/20/2013	ND	199	99.7	200	5.47	

Surrogate: 1-Chlorooctane 86.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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MIDLAND TX, 79702  
Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 10 B - 1 (3') (H300659-12)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2013	ND	2.32	116	2.00	4.19	
Toluene*	<0.050	0.050	03/21/2013	ND	2.33	116	2.00	3.80	
Ethylbenzene*	<0.050	0.050	03/21/2013	ND	2.27	113	2.00	3.85	
Total Xylenes*	<0.150	0.150	03/21/2013	ND	6.89	115	6.00	3.13	
Total BTEX	<0.300	0.300	03/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 121 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17.0	4.00	03/27/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/21/2013	ND	204	102	200	1.40	
DRO >C10-C28	<10.0	10.0	03/21/2013	ND	205	103	200	2.54	

Surrogate: 1-Chlorooctane 89.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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 MIDLAND TX, 79702  
 Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 10 C (1') (H300659-13)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2013	ND	2.32	116	2.00	4.19	
Toluene*	<0.050	0.050	03/21/2013	ND	2.33	116	2.00	3.80	
Ethylbenzene*	<0.050	0.050	03/21/2013	ND	2.27	113	2.00	3.85	
Total Xylenes*	<0.150	0.150	03/21/2013	ND	6.89	115	6.00	3.13	
Total BTEX	<0.300	0.300	03/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 123 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15.0	4.00	03/27/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	03/21/2013	ND	201	100	200	7.32		
DRO >C10-C28	70.1	50.0	03/21/2013	ND	199	99.4	200	11.1		

Surrogate: 1-Chlorooctane 57.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 10 C (3') (H300659-14)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2013	ND	2.32	116	2.00	4.19	
Toluene*	<0.050	0.050	03/21/2013	ND	2.33	116	2.00	3.80	
Ethylbenzene*	<0.050	0.050	03/21/2013	ND	2.27	113	2.00	3.85	
Total Xylenes*	<0.150	0.150	03/21/2013	ND	6.89	115	6.00	3.13	
Total BTEX	<0.300	0.300	03/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 119 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	25.0	16.0	03/27/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/21/2013	ND	201	100	200	7.32	
DRO >C10-C28	<10.0	10.0	03/21/2013	ND	199	99.4	200	11.1	

Surrogate: 1-Chlorooctane 89.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Deley D. Keene, Lab Director/Quality Manager

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 MIDLAND TX, 79702  
 Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 10 C - 1 (1') (H300659-15)**

BTEX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2013	ND	2.32	116	2.00	4.19	
Toluene*	<0.050	0.050	03/21/2013	ND	2.33	116	2.00	3.80	
Ethylbenzene*	<0.050	0.050	03/21/2013	ND	2.27	113	2.00	3.85	
Total Xylenes*	<0.150	0.150	03/21/2013	ND	6.89	115	6.00	3.13	
Total BTEX	<0.300	0.300	03/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 119 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: DW				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/21/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	03/21/2013	ND	201	100	200	7.32	
DRO >C10-C28	9170	50.0	03/21/2013	ND	199	99.4	200	11.1	

Surrogate: 1-Chlorooctane 81.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 407 % 63.6-154

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P. O. BOX 3040  
MIDLAND TX, 79702  
Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 10 C - 1 (3') (H300659-16)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2013	ND	2.32	116	2.00	4.19	
Toluene*	<0.050	0.050	03/21/2013	ND	2.33	116	2.00	3.80	
Ethylbenzene*	<0.050	0.050	03/21/2013	ND	2.27	113	2.00	3.85	
Total Xylenes*	<0.150	0.150	03/21/2013	ND	6.89	115	6.00	3.13	
Total BTEX	<0.300	0.300	03/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 121 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9.00	4.00	03/27/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/21/2013	ND	201	100	200	7.32	
DRO >C10-C28	15.2	10.0	03/21/2013	ND	199	99.4	200	11.1	

Surrogate: 1-Chlorooctane 93.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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 CAROLYN DORAN HAYNES  
 P. O. BOX 3040  
 MIDLAND TX, 79702  
 Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 11 A (1') (H300659-17)**

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2013	ND	2.32	116	2.00	4.19	
Toluene*	<0.050	0.050	03/21/2013	ND	2.33	116	2.00	3.80	
Ethylbenzene*	<0.050	0.050	03/21/2013	ND	2.27	113	2.00	3.85	
Total Xylenes*	<0.150	0.150	03/21/2013	ND	6.89	115	6.00	3.13	
Total BTEX	<0.300	0.300	03/21/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 121 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11.0	4.00	03/27/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	03/21/2013	ND	201	100	200	7.32	
DRO >C10-C28	81.0	50.0	03/21/2013	ND	199	99.4	200	11.1	

Surrogate: 1-Chlorooctane 59.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 118 % 63.6-154

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P. O. BOX 3040  
MIDLAND TX, 79702  
Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 11 A (3') (H300659-18)**

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	3.69	
Toluene*	<0.050	0.050	03/22/2013	ND	2.12	106	2.00	2.65	
Ethylbenzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	03/22/2013	ND	6.24	104	6.00	1.06	
Total BTX	<0.300	0.300	03/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/21/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/21/2013	ND	201	100	200	7.32	
DRO >C10-C28	<10.0	10.0	03/21/2013	ND	199	99.4	200	11.1	


Surrogate: 1-Chlorooctane 91.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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 MIDLAND TX, 79702  
 Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 11 B (1') (H300659-19)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	3.69	
Toluene*	<0.050	0.050	03/22/2013	ND	2.12	106	2.00	2.65	
Ethylbenzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	03/22/2013	ND	6.24	104	6.00	1.06	
Total BTEX	<0.300	0.300	03/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	31.0	4.00	03/27/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	03/21/2013	ND	201	100	200	7.32		
DRO >C10-C28	238	50.0	03/21/2013	ND	199	99.4	200	11.1		

Surrogate: 1-Chlorooctane 75.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 137 % 63.6-154

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 Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 11B (3') (H300659-20)**

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	3.69	
Toluene*	<0.050	0.050	03/22/2013	ND	2.12	106	2.00	2.65	
Ethylbenzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	03/22/2013	ND	6.24	104	6.00	1.06	
Total BTEX	<0.300	0.300	03/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/21/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/20/2013	ND	204	102	200	1.40	
DRO >C10-C28	<10.0	10.0	03/20/2013	ND	205	103	200	2.54	

Surrogate: 1-Chlorooctane 89.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 63.6-154

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Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 11 B - 1 (1') (H300659-21)**

BTEx 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	3.69	
Toluene*	<0.050	0.050	03/22/2013	ND	2.12	106	2.00	2.65	
Ethylbenzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	03/22/2013	ND	6.24	104	6.00	1.06	
Total BTEX	<0.300	0.300	03/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17.0	4.00	03/27/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/20/2013	ND	204	102	200	1.40	
DRO >C10-C28	46.3	10.0	03/20/2013	ND	205	103	200	2.54	

Surrogate: 1-Chlorooctane 89.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 11 B - 1 (3') (H300659-22)**

BTEX 8021B			mg/kg						
			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	3.69	
Toluene*	<0.050	0.050	03/22/2013	ND	2.12	106	2.00	2.65	
Ethylbenzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	03/22/2013	ND	6.24	104	6.00	1.06	
Total BTEX	<0.300	0.300	03/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8.00	4.00	03/27/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/20/2013	ND	204	102	200	1.40	
DRO >C10-C28	<10.0	10.0	03/20/2013	ND	205	103	200	2.54	

Surrogate: 1-Chlorooctane 97.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 11 C (1') (H300659-23)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	3.69	
Toluene*	<0.050	0.050	03/22/2013	ND	2.12	106	2.00	2.65	
Ethylbenzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	03/22/2013	ND	6.24	104	6.00	1.06	
Total BTEX	<0.300	0.300	03/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/21/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	03/20/2013	ND	204	102	200	1.40		
DRO >C10-C28	<50.0	50.0	03/20/2013	ND	205	103	200	2.54		

Surrogate: 1-Chlorooctane 83.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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 Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 11C (3') (H300659-24)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	3.69	
Toluene*	<0.050	0.050	03/22/2013	ND	2.12	106	2.00	2.65	
Ethylbenzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	03/22/2013	ND	6.24	104	6.00	1.06	
Total BTEX	<0.300	0.300	03/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/21/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/20/2013	ND	204	102	200	1.40	
DRO >C10-C28	<10.0	10.0	03/20/2013	ND	205	103	200	2.54	

Surrogate: 1-Chlorooctane 90.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 CAROLYN DORAN HAYNES  
 P. O. BOX 3040  
 MIDLAND TX, 79702  
 Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 12A (1') (H300659-25)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	3.69	
Toluene*	<0.050	0.050	03/22/2013	ND	2.12	106	2.00	2.65	
Ethylbenzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	03/22/2013	ND	6.24	104	6.00	1.06	
Total BTEX	<0.300	0.300	03/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8.00	4.00	03/27/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/20/2013	ND	204	102	200	1.40		
DRO >C10-C28	<10.0	10.0	03/20/2013	ND	205	103	200	2.54		

Surrogate: 1-Chlorooctane 95.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 118 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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 JOHN H. HENDRIX CORPORATION  
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 MIDLAND TX, 79702  
 Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 12 A (3') (H300659-26)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	3.69	
Toluene*	<0.050	0.050	03/22/2013	ND	2.12	106	2.00	2.65	
Ethylbenzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	03/22/2013	ND	6.24	104	6.00	1.06	
Total BTEX	<0.300	0.300	03/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/21/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/21/2013	ND	204	102	200	1.40	
DRO >C10-C28	<10.0	10.0	03/21/2013	ND	205	103	200	2.54	

Surrogate: 1-Chlorooctane 91.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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Joley D. Keene, Lab Director/Quality Manager

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 JOHN H. HENDRIX CORPORATION  
 CAROLYN DORAN HAYNES  
 P. O. BOX 3040  
 MIDLAND TX, 79702  
 Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 12 B (1') (H300659-27)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	3.69	
Toluene*	<0.050	0.050	03/22/2013	ND	2.12	106	2.00	2.65	
Ethylbenzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	03/22/2013	ND	6.24	104	6.00	1.06	
Total BTEX	<0.300	0.300	03/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9.00	4.00	03/27/2013	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/21/2013	ND	204	102	200	1.40		
DRO >C10-C28	<10.0	10.0	03/21/2013	ND	205	103	200	2.54		


Surrogate: 1-Chlorooctane 89.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
CAROLYN DORAN HAYNES  
P. O. BOX 3040  
MIDLAND TX, 79702  
Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 12B (3') (H300659-28)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	3.69	
Toluene*	<0.050	0.050	03/22/2013	ND	2.12	106	2.00	2.65	
Ethylbenzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	03/22/2013	ND	6.24	104	6.00	1.06	
Total BTEX	<0.300	0.300	03/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/21/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/21/2013	ND	204	102	200	1.40	
DRO >C10-C28	<10.0	10.0	03/21/2013	ND	205	103	200	2.54	

Surrogate: 1-Chlorooctane 87.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Deley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
CAROLYN DORAN HAYNES  
P. O. BOX 3040  
MIDLAND TX, 79702  
Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 12A-1 (1') (H300659-29)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	3.69	
Toluene*	<0.050	0.050	03/22/2013	ND	2.12	106	2.00	2.65	
Ethylbenzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	03/22/2013	ND	6.24	104	6.00	1.06	
Total BTEX	<0.300	0.300	03/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6.00	4.00	03/27/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/21/2013	ND	204	102	200	1.40	
DRO >C10-C28	<10.0	10.0	03/21/2013	ND	205	103	200	2.54	

Surrogate: 1-Chlorooctane 88.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 111 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
CAROLYN DORAN HAYNES  
P. O. BOX 3040  
MIDLAND TX, 79702  
Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 12 A - 1 (3') (H300659-30)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	3.69	
Toluene*	<0.050	0.050	03/22/2013	ND	2.12	106	2.00	2.65	
Ethylbenzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	03/22/2013	ND	6.24	104	6.00	1.06	
Total BTEX	<0.300	0.300	03/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10.0	4.00	03/27/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/21/2013	ND	204	102	200	1.40	
DRO >C10-C28	<10.0	10.0	03/21/2013	ND	205	103	200	2.54	

Surrogate: 1-Chlorooctane 88.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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 JOHN H. HENDRIX CORPORATION  
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 P. O. BOX 3040  
 MIDLAND TX, 79702  
 Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 12 C (1') (H300659-31)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	3.69	
Toluene*	<0.050	0.050	03/22/2013	ND	2.12	106	2.00	2.65	
Ethylbenzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	03/22/2013	ND	6.24	104	6.00	1.06	
Total BTEX	<0.300	0.300	03/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10.0	4.00	03/27/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/21/2013	ND	204	102	200	1.40	
DRO >C10-C28	<10.0	10.0	03/21/2013	ND	205	103	200	2.54	

Surrogate: 1-Chlorooctane 83.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
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 MIDLAND TX, 79702  
 Fax To: (575) 394-2653

Received:	03/19/2013	Sampling Date:	03/19/2013
Reported:	03/27/2013	Sampling Type:	Soil
Project Name:	JHHC SWMF NM-02-0021	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/		

**Sample ID: 12C (3') (H300659-32)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	3.69	
Toluene*	<0.050	0.050	03/22/2013	ND	2.12	106	2.00	2.65	
Ethylbenzene*	<0.050	0.050	03/22/2013	ND	2.16	108	2.00	1.27	
Total Xylenes*	<0.150	0.150	03/22/2013	ND	6.24	104	6.00	1.06	
Total BTEX	<0.300	0.300	03/22/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13.0	4.00	03/27/2013	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/21/2013	ND	204	102	200	1.40	
DRO >C10-C28	<10.0	10.0	03/21/2013	ND	205	103	200	2.54	

Surrogate: 1-Chlorooctane 81.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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Deley D. Keene, Lab Director/Quality Manager

### Notes and Definitions

- S-06      The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04      The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND        Analyte NOT DETECTED at or above the reporting limit
- RPD      Relative Percent Difference
- \*\*        Samples not received at proper temperature of 6°C or below.
- \*\*\*      Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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---

Celey D. Keene, Lab Director/Quality Manager

101 East Marland - Hobbs, New Mexico 88240  
Tel (575) 393-2326  
Fax (575) 393-2476

# Cardinal Laboratories, Inc.

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

### ANALYSIS REQUEST (Circle or Specify Method No.)

Company Name:

John H. Hendrix Corporation

BILL TO Company:

John H. Hendrix Corporation

PO#

Project Manager:

Carolyn Haynes

Address: (Street, City, Zip)

PO Box 910, Eunice NM 88231

Address: (Street, City, Zip)

PO Box 3040, Midland TX 79702-3040

Phone #:

(575) 394-2649

Fax#:

(575) 394-2653

Phone #:

(432) 684-6631

Email:

cdoranhaynes@jhnc.org

Project #:

John H. Hendrix Corporation

Project Name:

JHHC Surface Waste Management Facility (NM-02-0021)

Project Location:

T24S, R36E, Sec 15, W/2 NW/4 & W/2 SW/4, Lea County NM

Sampler Name:

Gil Van Deventer

LAB #

FIELD CODE

LAB USE ONLY

H300659

(G)rab or (C)omp

# CONTAINERS

WATER

SOIL

AIR

SLUDGE

HCL

HNO<sub>3</sub>

NaHSO<sub>4</sub>

H<sub>2</sub>SO<sub>4</sub>

ICE

None

DATE

TIME

MTBE 8021B/602

BTEX 8021 B

TPH 8015M

PAH 8270C

RCRA Metals: Ag As Ba Cd Cr Pb Se Hg

WQCC Metals: Al Cu Fe Mn Zn

TCLP Volatiles

TCLP Semi Volatiles

TCLP Pesticides

RCI

GC/MS Vol. 8260B/624

GC/MS Semi. Vol. 8270C/625

Moisture Content

Cations (Ca, Mg, K, Na)

Anions (Cl, SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, T-ALK)

Total Dissolved Solids (SM2540C)

Chlorides (SM4500 B or 300.1)

SPLP Chloride

Turn Around Time ~ 24 Hours

LAB #	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	MATRIX	PRESERVATIVE	METHOD	SAMPLING	DATE	TIME
1	1A (1')	C	1	X				3/19/13	0910
2	1A (3)	G	1	X				3/19/13	0915
3	1B (1')	C	1	X				3/19/13	0920
4	1B (3)	G	1	X				3/19/13	0955
5	1B-1 (1')	C	1	X				3/19/13	1010
6	1B-1 (3)	G	1	X				3/19/13	1015
7	1C (1')	C	1	X				3/19/13	1030
8	1C (3)	G	1	X				3/19/13	1035
9	1OB (1')	C	1	X				3/19/13	1140
10	1OB (3)	G	1	X				3/19/13	1145

Relinquished by: *[Signature]* Date: 3/19/13 Time: 0910  
Relinquished by: *[Signature]* Date: 3/19/13 Time: 0910

Received by: *[Signature]* Date: 3/19/13 Time: 4:15  
Received by: *[Signature]* Date: 3/19/13 Time: 4:15

Delivered By: (Circle One)

Sample Condition

Cool ☒ Yes ☐ No

Intact ☒ Yes ☐ No

Checked By: *[Signature]*

REMARKS:

Email Results to: cdoranhaynes@jhnc.org  
gil@trident-environmental.com

Sampler - UPS - Bus - Other:

40 Yes ☒ No ☐

40 Yes ☒ No ☐

40 Yes ☒ No ☐

40 Yes ☒ No ☐

#26

**Cardinal Laboratories, Inc.**

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

**ANALYSIS REQUEST**  
(Circle or Specify Method No.)

**Company Name:**

**John H. Hendrix Corporation**

**BILL TO** Company:

**John H. Hendrix Corporation**

PO#

**Carolyn Haynes**

**Carolyn Haynes**

**Address:** (Street, City, Zip)

PO Box 910, Eunice NM 88231

**Address:** (Street, City, Zip) **Fax#**

PO Box 3040, Midland TX 79702-3040

Phone #:

(575) 394-2649	(575) 394-2653
----------------	----------------

Phone #:

(432) 684-6631      cdoranhaynes@jhnc.org

**Email:**

**Project #:**

**John H. Hendrix Corporation**

**Project Name:**

**JHHC Surface Waste Management Facility (NM-02-0021)**

**Project Location:**

T24S, R36E, Sec 15, W/2 NW/4 & W/2 SW/4, Lea County NM

**Sampler Name:**

**Gil Van Deventer**

[illegible]

**Cardinal Laboratories, Inc.**

101 East Marland - Hobbs, New Mexico 88240  
Tel (575) 393-2326  
Fax (575) 393-2476

# Cardinal Laboratories, Inc.

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # \_\_\_\_\_

Company Name:

John H. Hendrix Corporation

BILL TO Company:

John H. Hendrix Corporation

PO#

Project Manager:

Carolyn Haynes

Project Manager:

Carolyn Haynes

Address: (Street, City, Zip)

PO Box 910, Eunice NM 88231

Address: (Street, City, Zip)

PO Box 3040, Midland TX 79702-3040

Phone #:

(575) 394-2649

Phone #:

(432) 684-6631

Email:

cdoranhaynes@jhnc.org

Project #:

John H. Hendrix Corporation

Project Name:

JHHC Surface Waste Management Facility (NM-02-0021)

Project Location:

T24S, R36E, Sec 15, W/2 NW/4 & W/2 SW/4, Lea County NM

Sampler Name:

Gil Van Deventer

LAB #

FIELD CODE

LAB USE ONLY

H300659

(G)rab or (C)omp

# CONTAINERS

WATER

SOIL

AIR

SLUDGE

HCL

HNO<sub>3</sub>

NaHSO<sub>4</sub>

H<sub>2</sub>SO<sub>4</sub>

ICE

None

DATE

TIME

MTBE 8021B/602

BTEX 8021 B

TPH 8015M

PAH 8270C

RCRA Metals: Ag As Ba Cd Cr Pb Se Hg

WQCC Metals: Al Cu Fe Mn Zn

TCLP Volatiles

TCLP Semi Volatiles

TCLP Pesticides

RCI

GC/MS Vol. 8260B/624

GC/MS Semi. Vol. 8270C/625

Moisture Content

Cations (Ca, Mg, K, Na)

Anions (Cl, SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, T-ALK)

Total Dissolved Solids (SM2540C)

Chlorides (SM4500 B or 300.1)

SPLP Chloride

Turn Around Time ~ 24 Hours

## ANALYSIS REQUEST

(Circle or Specify Method No.)

Relinquished by: *John H. Hendrix* Date: *3/19/13* Time: *4:10 PM*

Received by:

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

Relinquished by:

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

Received By: (Laboratory Staff)

Date: *3/19/13* Time: *4:15*

Delivered By: (Circle One)

Sample Condition

CHECKED BY:

Sampler - UPS - Bus - Other:

4<sup>th</sup> Yes

No

Yes

No

Initials

*GH*

REMARKS:

Email Results to:

cdoranhaynes@jhnc.org

gil@trident-environmental.com



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

November 22, 2013

CAROLYN DORAN HAYNES  
JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND, TX 79702

RE: JHHC SWMF NM-02-0021

Enclosed are the results of analyses for samples received by the laboratory on 11/07/13 8:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene  
Lab Director/Quality Manager



**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
1 A (1')	H302718-01	Soil	05-Nov-13 09:35	07-Nov-13 08:50
1 A (3')	H302718-02	Soil	05-Nov-13 09:40	07-Nov-13 08:50
1 B (1')	H302718-03	Soil	05-Nov-13 10:00	07-Nov-13 08:50
1 B (3')	H302718-04	Soil	05-Nov-13 10:05	07-Nov-13 08:50
1 B - 1 (1')	H302718-05	Soil	05-Nov-13 10:25	07-Nov-13 08:50
1 B - 1 (3')	H302718-06	Soil	05-Nov-13 10:30	07-Nov-13 08:50
1 C (1')	H302718-07	Soil	05-Nov-13 10:50	07-Nov-13 08:50
1 C (3')	H302718-08	Soil	05-Nov-13 10:55	07-Nov-13 08:50
10 B (1')	H302718-09	Soil	05-Nov-13 12:00	07-Nov-13 08:50
10 B (3')	H302718-10	Soil	05-Nov-13 12:05	07-Nov-13 08:50
10 B - 1 (1')	H302718-11	Soil	05-Nov-13 12:10	07-Nov-13 08:50
10 B - 1 (3')	H302718-12	Soil	05-Nov-13 12:15	07-Nov-13 08:50
10 C (1')	H302718-13	Soil	05-Nov-13 11:10	07-Nov-13 08:50
10 C (3')	H302718-14	Soil	05-Nov-13 11:15	07-Nov-13 08:50
10 C - 1 (1')	H302718-15	Soil	05-Nov-13 11:20	07-Nov-13 08:50
10 C - 1 (3')	H302718-16	Soil	05-Nov-13 11:25	07-Nov-13 08:50
11 A (1')	H302718-17	Soil	05-Nov-13 13:00	07-Nov-13 08:50
11 A (3')	H302718-18	Soil	05-Nov-13 13:05	07-Nov-13 08:50
11 B (1')	H302718-19	Soil	05-Nov-13 13:20	07-Nov-13 08:50
11 B (3')	H302718-20	Soil	05-Nov-13 13:25	07-Nov-13 08:50
11 B - 1 (1')	H302718-21	Soil	05-Nov-13 13:30	07-Nov-13 08:50
11 B - 1 (3')	H302718-22	Soil	05-Nov-13 13:35	07-Nov-13 08:50
11 C (1')	H302718-23	Soil	05-Nov-13 14:10	07-Nov-13 08:50
11C (3')	H302718-24	Soil	05-Nov-13 14:15	07-Nov-13 08:50
12A (1')	H302718-25	Soil	05-Nov-13 15:00	07-Nov-13 08:50
12 A (3')	H302718-26	Soil	05-Nov-13 15:10	07-Nov-13 08:50
12A-1 (1')	H302718-27	Soil	05-Nov-13 15:20	07-Nov-13 08:50

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

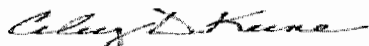
**Analytical Results For:**JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653Reported:  
22-Nov-13 15:07

12 A - 1 (3')	H302718-28	Soil	05-Nov-13 15:30	07-Nov-13 08:50
12 B (1')	H302718-29	Soil	05-Nov-13 14:40	07-Nov-13 08:50
12B (3')	H302718-30	Soil	05-Nov-13 14:50	07-Nov-13 08:50
12 C (1')	H302718-31	Soil	05-Nov-13 14:25	07-Nov-13 08:50
12C (3')	H302718-32	Soil	05-Nov-13 14:30	07-Nov-13 08:50

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**1 A (1')**
**H302718-01 (Soil)**

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

Chloride	20.0	16.0	mg/kg	4	3111502	AP	15-Nov-13	4500-Cl-B
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND	0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B
Toluene*	ND	0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B
Ethylbenzene*	ND	0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B
Total Xylenes*	ND	0.150	mg/kg	50	3110804	MS	12-Nov-13	8021B
Total BTEX	ND	0.300	mg/kg	50	3110804	MS	12-Nov-13	8021B

Surrogate: 4-Bromofluorobenzene (PID)	107 %	89.4-126	3110804	MS	12-Nov-13	8021B
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**Petroleum Hydrocarbons by GC FID**

RO C6-C10	ND	10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B
DRO >C10-C28	ND	10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B


Surrogate: 1-Chlorooctane	89.7 %	65.2-140	3110706	MS	08-Nov-13	8015B
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Surrogate: 1-Chlorooctadecane	91.8 %	63.6-154	3110706	MS	08-Nov-13	8015B
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION P. O. BOX 3040 MIDLAND TX, 79702	Project: JHHC SWMF NM-02-0021 Project Number: NOT GIVEN Project Manager: CAROLYN DORAN HAYNES Fax To: (575) 394-2653	Reported: 22-Nov-13 15:07
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**1 A (3')  
H302718-02 (Soil)**

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

Alkalinity, Bicarbonate	24.4		5.00	mg/kg	1	3101608	AP	18-Nov-13	310.1	
Alkalinity, Carbonate	ND		0.00	mg/kg	1	3101608	AP	18-Nov-13	310.1	
Chloride	430		16.0	mg/kg	4	3111502	AP	15-Nov-13	4500-Cl-B	
Conductivity	2170		1.00	uS/cm	1	3111802	AP	18-Nov-13	120.1	
pH*	6.75		0.100	pH Units	1	3111804	AP	15-Nov-13	9045	
Sulfate	661		250	mg/kg	25	3112202	AP	22-Nov-13	375.4	
Alkalinity, Total*	20.0		4.00	mg/kg	1	3101608	AP	18-Nov-13	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3110804	MS	12-Nov-13	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 107 % 89.4-126 3110804 MS 12-Nov-13 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B	

Surrogate: 1-Chlorooctane 91.4 % 65.2-140 3110706 MS 08-Nov-13 8015B

Surrogate: 1-Chlorooctadecane 94.6 % 63.6-154 3110706 MS 08-Nov-13 8015B

**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	90.8			%	1	B311113	JGS	12-Nov-13	EPA160.3	
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Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

1 A (3')

H302718-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Aluminum	13500	0.149	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Calcium	1700	0.390	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Copper	2.30	0.223	2.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Iron	12000	0.397	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Magnesium	2000	1.90	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Manganese	57.0	0.036	0.500	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Potassium	2420	36.4	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Sodium	846	0.405	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Zinc	25.6	0.254	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	

**Total Metals by ICPMS**

Arsenic	3.14	0.138	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Barium	58.8	0.0411	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Cadmium	0.315	0.0400	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Chromium	9.24	0.0956	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Lead	6.75	0.0302	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Selenium	ND	0.411	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Silver	ND	0.0123	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	

**Total Mercury by CVAA**

Mercury	0.0208	0.0109	0.107	mg/kg dry	485	B311126	JGS	14-Nov-13	EPA7471	J
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION P. O. BOX 3040 MIDLAND TX, 79702	Project: JHHC SWMF NM-02-0021 Project Number: NOT GIVEN Project Manager: CAROLYN DORAN HAYNES Fax To: (575) 394-2653	Reported: 22-Nov-13 15:07
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**1 B (1')  
H302718-03 (Soil)**

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

Chloride	ND		16.0	mg/kg	4	3111502	AP	15-Nov-13	4500-Cl-B	
----------	----	--	------	-------	---	---------	----	-----------	-----------	--

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			106 %	89.4-126		3110804	MS	12-Nov-13	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctane			100 %	65.2-140		3110706	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctadecane			99.2 %	63.6-154		3110706	MS	08-Nov-13	8015B	

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**1 B (3')**
**H302718-04 (Soil)**

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

Alkalinity, Bicarbonate	64.0		5.00	mg/kg	1	3101608	AP	18-Nov-13	310.1	
Alkalinity, Carbonate	ND		0.00	mg/kg	1	3101608	AP	18-Nov-13	310.1	
Chloride	240		16.0	mg/kg	4	3111502	AP	15-Nov-13	4500-Cl-B	
Conductivity	1080		1.00	uS/cm	1	3111802	AP	18-Nov-13	120.1	
pH*	6.77		0.100	pH Units	1	3111804	AP	15-Nov-13	9045	
Sulfate	14.3		10.0	mg/kg	1	3112202	AP	22-Nov-13	375.4	
Alkalinity, Total*	52.0		4.00	mg/kg	1	3101608	AP	18-Nov-13	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3110804	MS	12-Nov-13	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 107 % 89.4-126 3110804 MS 12-Nov-13 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B	

Surrogate: 1-Chlorooctane 89.2 % 65.2-140 3110706 MS 08-Nov-13 8015B

Surrogate: 1-Chlorodecane 91.4 % 63.6-154 3110706 MS 08-Nov-13 8015B

**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	92.9			%	1	B311113	JGS	12-Nov-13	EPA160.3	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**1 B (3')  
 H302718-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Aluminum	11700	0.149	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Calcium	1790	0.390	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Copper	1.60	0.223	2.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Iron	10100	0.397	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Magnesium	1870	1.90	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Manganese	51.7	0.036	0.500	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Potassium	2190	36.4	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Sodium	139	0.405	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Zinc	22.3	0.254	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	

**Total Metals by ICPMS**

Arsenic	2.65	0.138	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Barium	41.8	0.0411	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Cadmium	0.218	0.0400	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Chromium	7.27	0.0956	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Lead	5.52	0.0302	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Selenium	ND	0.411	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Silver	ND	0.0123	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	

**Total Mercury by CVAA**

Mercury	0.0135	0.0110	0.108	mg/kg dry	500	B311126	JGS	14-Nov-13	EPA7471	J
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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**1 B - 1 (1')**  
**H302718-05 (Soil)**

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

Chloride	68.0	16.0	mg/kg	4	3111502	AP	15-Nov-13	4500-Cl-B
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND	0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B
Toluene*	ND	0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B
Ethylbenzene*	ND	0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B
Total Xylenes*	ND	0.150	mg/kg	50	3110804	MS	12-Nov-13	8021B
Total BTEX	ND	0.300	mg/kg	50	3110804	MS	12-Nov-13	8021B

Surrogate: 4-Bromofluorobenzene (PID)	106 %	89.4-126	3110804	MS	12-Nov-13	8021B
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**Petroleum Hydrocarbons by GC FID**

RO C6-C10	ND	10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B
DRO >C10-C28	ND	10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B


Surrogate: 1-Chlorooctane	104 %	65.2-140	3110706	MS	08-Nov-13	8015B
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Surrogate: 1-Chlorooctadecane	108 %	63.6-154	3110706	MS	08-Nov-13	8015B
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Seley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**1 B - 1 (3')**
**H302718-06 (Soil)**

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

Alkalinity, Bicarbonate	210		5.00	mg/kg	1	3101608	AP	18-Nov-13	310.1	
Alkalinity, Carbonate	9.60		0.00	mg/kg	1	3101608	AP	18-Nov-13	310.1	
Chloride	24.0		16.0	mg/kg	4	3111502	AP	15-Nov-13	4500-Cl-B	
Conductivity	2410		1.00	uS/cm	1	3111802	AP	18-Nov-13	120.1	
pH*	8.94		0.100	pH Units	1	3111804	AP	15-Nov-13	9045	
Sulfate	ND		500	mg/kg	50	3112202	AP	22-Nov-13	375.4	
Alkalinity, Total*	220		4.00	mg/kg	1	3101608	AP	18-Nov-13	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3110804	MS	12-Nov-13	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126 3110804 MS 12-Nov-13 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B	

Surrogate: 1-Chlorooctane 105 % 65.2-140 3110706 MS 08-Nov-13 8015B

Surrogate: 1-Chlorooctadecane 110 % 63.6-154 3110706 MS 08-Nov-13 8015B

**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	98.0			%	1	B311113	JGS	12-Nov-13	EPA160.3	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**1 B - 1 (3')**  
**H302718-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Aluminum	4420	0.149	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Calcium	571	0.390	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Copper	1.76	0.223	2.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Iron	4830	0.397	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Magnesium	684	1.90	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Manganese	57.8	0.036	0.500	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Potassium	1080	36.4	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Sodium	153	0.405	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Zinc	10.6	0.254	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	

**Total Metals by ICPMS**

senic	0.885	0.138	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Barium	19.5	0.0411	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Cadmium	0.131	0.0400	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Chromium	3.63	0.0956	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Lead	2.74	0.0302	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Selenium	ND	0.411	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Silver	ND	0.0123	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	

**Total Mercury by CVAA**

Mercury	ND	0.0101	0.0982	mg/kg dry	481	B311126	JGS	14-Nov-13	EPA7471	
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Seley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**1 C (1')  
 H302718-07 (Soil)**

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

Chloride	ND		16.0	mg/kg	4	3111502	AP	15-Nov-13	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3110804	MS	12-Nov-13	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	89.4-126		3110804	MS	12-Nov-13	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B	
DRO >C10-C28	12.9		10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctane			107 %	65.2-140		3110706	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctadecane			109 %	63.6-154		3110706	MS	08-Nov-13	8015B	

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**1 C (3')**  
**H302718-08 (Soil)**

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

Alkalinity, Bicarbonate	107		5.00	mg/kg	1	3101608	AP	18-Nov-13	310.1	
Alkalinity, Carbonate	ND		0.00	mg/kg	1	3101608	AP	18-Nov-13	310.1	
Chloride	24.0		16.0	mg/kg	4	3111502	AP	15-Nov-13	4500-Cl-B	
Conductivity	307		1.00	uS/cm	1	3111802	AP	18-Nov-13	120.1	
pH*	7.02		0.100	pH Units	1	3111804	AP	15-Nov-13	9045	
Sulfate	ND		500	mg/kg	50	3112202	AP	22-Nov-13	375.4	
Alkalinity, Total*	88.0		4.00	mg/kg	1	3101608	AP	18-Nov-13	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3110804	MS	12-Nov-13	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126 3110804 MS 12-Nov-13 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B	

Surrogate: 1-Chlorooctane 106 % 65.2-140 3110706 MS 08-Nov-13 8015B

Surrogate: 1-Chlorooctadecane 109 % 63.6-154 3110706 MS 08-Nov-13 8015B

**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	95.0			%	1	B311113	JGS	12-Nov-13	EPA160.3	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**1 C (3')**  
**H302718-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Aluminum	10300	0.149	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Calcium	1250	0.390	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Copper	1.88	0.223	2.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Iron	8770	0.397	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Magnesium	1400	1.90	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Manganese	62.2	0.036	0.500	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Potassium	1960	36.4	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Sodium	58.7	0.405	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Zinc	20.3	0.254	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	

**Total Metals by ICPMS**

Arsenic	2.27	0.138	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Barium	40.2	0.0411	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Cadmium	0.260	0.0400	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Chromium	6.53	0.0956	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Lead	4.67	0.0302	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Selenium	ND	0.411	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Silver	ND	0.0123	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	

**Total Mercury by CVAA**

Mercury	0.0130	0.0107	0.104	mg/kg dry	495	B311126	JGS	14-Nov-13	EPA7471	J
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**10 B (1')**  
**H302718-09 (Soil)**

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

Chloride	216	16.0	mg/kg	4	3111502	AP	15-Nov-13	4500-Cl-B
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND	0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B
Toluene*	ND	0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B
Ethylbenzene*	ND	0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B
Total Xylenes*	ND	0.150	mg/kg	50	3110804	MS	12-Nov-13	8021B
Total BTEX	ND	0.300	mg/kg	50	3110804	MS	12-Nov-13	8021B

Surrogate: 4-Bromofluorobenzene (PID)	107 %	89.4-126	3110804	MS	12-Nov-13	8021B
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**Petroleum Hydrocarbons by GC FID**
**S-06**

ΣC6-C10	ND	50.0	mg/kg	5	3110706	MS	08-Nov-13	8015B
DRO >C10-C28	3800	50.0	mg/kg	5	3110706	MS	08-Nov-13	8015B

Surrogate: 1-Chlorooctane	104 %	65.2-140	3110706	MS	08-Nov-13	8015B
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Surrogate: 1-Chlorooctadecane	340 %	63.6-154	3110706	MS	08-Nov-13	8015B
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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

### 10 B (3') H302718-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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#### Cardinal Laboratories

#### Inorganic Compounds

Alkalinity, Bicarbonate	102		5.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	
Alkalinity, Carbonate	ND		0.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	
Chloride	48.0		16.0	mg/kg	4	3111502	AP	15-Nov-13	4500-Cl-B	
Conductivity	1390		1.00	uS/cm	1	3111802	AP	18-Nov-13	120.1	
pH*	8.02		0.100	pH Units	1	3111804	AP	15-Nov-13	9045	
Sulfate	27.9		10.0	mg/kg	1	3112202	AP	22-Nov-13	375.4	
Alkalinity, Total*	84.0		4.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	

#### Volatile Organic Compounds by EPA Method 8021

Benzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3110804	MS	12-Nov-13	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126 3110804 MS 12-Nov-13 8021B

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B	

Surrogate: 1-Chlorooctane 77.6 % 65.2-140 3110706 MS 08-Nov-13 8015B

Surrogate: 1-Chlorooctadecane 83.5 % 63.6-154 3110706 MS 08-Nov-13 8015B

#### Green Analytical Laboratories

#### General Chemistry

% Dry Solids	96.7			%	1	B311113	JGS	12-Nov-13	EPA160.3	
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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**10 B (3')**  
**H302718-10 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Aluminum	3760	0.149	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Calcium	8440	0.390	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Copper	1.99	0.223	2.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Iron	4090	0.397	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Magnesium	670	1.90	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Manganese	45.7	0.036	0.500	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Potassium	848	36.4	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Sodium	3.41	0.405	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Zinc	11.4	0.254	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	

**Total Metals by ICPMS**

Arsenic	1.08	0.138	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Barium	26.6	0.0411	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Cadmium	0.139	0.0400	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Chromium	4.04	0.0956	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Lead	2.67	0.0302	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Selenium	ND	0.411	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Silver	ND	0.0123	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	

**Total Mercury by CVAA**

Mercury	0.0112	0.0104	0.101	mg/kg dry	490	B311126	JGS	14-Nov-13	EPA7471	J
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**10 B - 1 (1')  
 H302718-11 (Soil)**

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

Chloride	110	16.0	mg/kg	4	3111502	AP	15-Nov-13	4500-Cl-B
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND	0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B
Toluene*	ND	0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B
Ethylbenzene*	ND	0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B
Total Xylenes*	ND	0.150	mg/kg	50	3110804	MS	12-Nov-13	8021B
Total BTEX	ND	0.300	mg/kg	50	3110804	MS	12-Nov-13	8021B

Surrogate: 4-Bromofluorobenzene (PID)	105 %	89.4-126	3110804	MS	12-Nov-13	8021B
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**Petroleum Hydrocarbons by GC FID**
**S-06**

GRO C6-C10	ND	50.0	mg/kg	5	3110706	MS	08-Nov-13	8015B
DRO >C10-C28	872	50.0	mg/kg	5	3110706	MS	08-Nov-13	8015B

Surrogate: 1-Chlorooctane	89.9 %	65.2-140	3110706	MS	08-Nov-13	8015B
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Surrogate: 1-Chlorooctadecane	186 %	63.6-154	3110706	MS	08-Nov-13	8015B
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**10 B - 1 (3')**  
**H302718-12 (Soil)**

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

Alkalinity, Bicarbonate	137		5.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	
Alkalinity, Carbonate	ND		0.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	
Chloride	140		16.0	mg/kg	4	3111502	AP	15-Nov-13	4500-Cl-B	
Conductivity	590		1.00	uS/cm	1	3111802	AP	18-Nov-13	120.1	
pH*	7.13		0.100	pH Units	1	3111804	AP	15-Nov-13	9045	
Sulfate	127		25.0	mg/kg	2.5	3112202	AP	22-Nov-13	375.4	
Alkalinity, Total*	112		4.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3110804	MS	12-Nov-13	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126 3110804 MS 12-Nov-13 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3110706	MS	08-Nov-13	8015B	

Surrogate: 1-Chlorooctane 87.3 % 65.2-140 3110706 MS 08-Nov-13 8015B

Surrogate: 1-Chlorooctadecane 97.5 % 63.6-154 3110706 MS 08-Nov-13 8015B

**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	94.3		%	1	B311113	JGS	12-Nov-13	EPA160.3		
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**10 B - 1 (3')  
 H302718-12 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Aluminum	6700	0.149	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Calcium	1280	0.390	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Copper	2.01	0.223	2.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Iron	6690	0.397	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Magnesium	1120	1.90	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Manganese	68.7	0.036	0.500	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Potassium	1330	36.4	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Sodium	28.2	0.405	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Zinc	17.1	0.254	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	

**Total Metals by ICPMS**

Arsenic	1.37	0.138	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Barium	30.4	0.0411	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Cadmium	0.200	0.0400	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Chromium	4.58	0.0956	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Lead	3.86	0.0302	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Selenium	ND	0.411	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Silver	ND	0.0123	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	

**Total Mercury by CVAA**

Mercury	0.0123	0.0105	0.103	mg/kg dry	485	B311126	JGS	14-Nov-13	EPA7471	J
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**10 C (1')**  
**H302718-13 (Soil)**

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

Chloride	44.0	16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND	0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B
Toluene*	ND	0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B
Ethylbenzene*	ND	0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B
Total Xylenes*	ND	0.150	mg/kg	50	3110804	MS	12-Nov-13	8021B
Total BTEX	ND	0.300	mg/kg	50	3110804	MS	12-Nov-13	8021B

Surrogate: 4-Bromofluorobenzene (PID)	105 %	89.4-126	3110804	MS	12-Nov-13	8021B
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**Petroleum Hydrocarbons by GC FID**
**S-06**

RO C6-C10	ND	50.0	mg/kg	5	3110706	MS	08-Nov-13	8015B
DRO >C10-C28	181	50.0	mg/kg	5	3110706	MS	08-Nov-13	8015B


Surrogate: 1-Chlorooctane	96.8 %	65.2-140	3110706	MS	08-Nov-13	8015B
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Surrogate: 1-Chlorooctadecane	159 %	63.6-154	3110706	MS	08-Nov-13	8015B
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Cardinal Laboratories

\*=Accredited Analyte

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Seley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**10 C (3')**  
**H302718-14 (Soil)**

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

Alkalinity, Bicarbonate	39.0		5.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	
Alkalinity, Carbonate	ND		0.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	
Chloride	32.0		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B	
Conductivity	457		1.00	uS/cm	1	3111802	AP	18-Nov-13	120.1	
pH*	7.07		0.100	pH Units	1	3111804	AP	15-Nov-13	9045	
Sulfate	220		125	mg/kg	12.5	3112202	AP	22-Nov-13	375.4	
Alkalinity, Total*	32.0		4.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			106 %	89.4-126		3110804	MS	12-Nov-13	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctane			101 %	65.2-140		3110801	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctadecane			111 %	63.6-154		3110801	MS	08-Nov-13	8015B	

**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	92.7			%	1	B311113	JGS	12-Nov-13	EPA160.3	
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**10 C (3')**  
**H302718-14 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Aluminum	7050	0.149	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Calcium	1110	0.390	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Copper	1.78	0.223	2.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Iron	7170	0.397	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Magnesium	1140	1.90	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Manganese	70.3	0.036	0.500	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Potassium	1420	36.4	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Sodium	103	0.405	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Zinc	20.4	0.254	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	

**Total Metals by ICPMS**

Arsenic	1.89	0.138	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Barium	31.2	0.0411	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Cadmium	0.222	0.0400	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Chromium	5.47	0.0956	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Lead	4.54	0.0302	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Selenium	ND	0.411	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Silver	ND	0.0123	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	


**Total Mercury by CVAA**

Mercury	0.0123	0.0105	0.103	mg/kg dry	476	B311126	JGS	14-Nov-13	EPA7471	J
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**10 C - 1 (1')**  
**H302718-15 (Soil)**

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

Chloride	ND		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			106 %	89.4-126		3110804	MS	12-Nov-13	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
DRO >C10-C28	34.4		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctane			99.9 %	65.2-140		3110801	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctadecane			112 %	63.6-154		3110801	MS	08-Nov-13	8015B	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**10 C - 1 (3')**  
**H302718-16 (Soil)**

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

Alkalinity, Bicarbonate	122		5.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	
Alkalinity, Carbonate	ND		0.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	
Chloride	ND		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B	
Conductivity	1590		1.00	uS/cm	1	3111802	AP	18-Nov-13	120.1	
pH*	8.14		0.100	pH Units	1	3111804	AP	15-Nov-13	9045	
Sulfate	129		25.0	mg/kg	2.5	3112202	AP	22-Nov-13	375.4	
Alkalinity, Total*	100		4.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
o-xylbenzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3110804	MS	12-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3110804	MS	12-Nov-13	8021B	

Surrogate: 1-Bromofluorobenzene (PID) 107 % 89.4-126 3110804 MS 12-Nov-13 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	

Surrogate: 1-Chlorooctane 104 % 65.2-140 3110801 MS 08-Nov-13 8015B

Surrogate: 1-Chlorooctadecane 111 % 63.6-154 3110801 MS 08-Nov-13 8015B

**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	91.3			%	1	B311113	JGS	12-Nov-13	EPA160.3	
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Jeley D. Keene, Lab Director/Quality Manager

### Analytical Results For:

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**10 C - 1 (3')**  
**H302718-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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### Green Analytical Laboratories

#### Total Metals by ICP

Aluminum	6720	0.149	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Calcium	1640	0.390	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Copper	2.12	0.223	2.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Iron	6370	0.397	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Magnesium	1090	1.90	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Manganese	54.0	0.036	0.500	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Potassium	1280	36.4	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Sodium	8.06	0.405	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Zinc	15.8	0.254	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	

#### Total Metals by ICPMS

Arsenic	1.53	0.138	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Barium	33.5	0.0411	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Cadmium	0.232	0.0400	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Chromium	5.20	0.0956	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Lead	3.64	0.0302	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Selenium	ND	0.411	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Silver	ND	0.0123	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	

#### Total Mercury by CVAA

Mercury	0.0137	0.0112	0.109	mg/kg dry	500	B311126	JGS	14-Nov-13	EPA7471	J
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**11 A (1')**  
**H302718-17 (Soil)**

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

<b>Chloride</b>	ND	16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	ND	0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B
<b>Toluene*</b>	ND	0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B
<b>Ethylbenzene*</b>	ND	0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B
<b>Total Xylenes*</b>	ND	0.150	mg/kg	50	3110804	MS	12-Nov-13	8021B
<b>Total BTEX</b>	ND	0.300	mg/kg	50	3110804	MS	12-Nov-13	8021B

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	106 %	89.4-126	3110804	MS	12-Nov-13	8021B
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**Petroleum Hydrocarbons by GC FID**

<b>IO C6-C10</b>	ND	10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B
<b>DRO &gt;C10-C28</b>	17.4	10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B

<i>Surrogate: 1-Chlorooctane</i>	75.9 %	65.2-140	3110801	MS	08-Nov-13	8015B
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<i>Surrogate: 1-Chlorooctadecane</i>	88.6 %	63.6-154	3110801	MS	08-Nov-13	8015B
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Cardinal Laboratories

\*=Accredited Analyte

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Deley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**11 A (3')  
 H302718-18 (Soil)**

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

Alkalinity, Bicarbonate	132		5.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	
Alkalinity, Carbonate	ND		0.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	
Chloride	84.0		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B	
Conductivity	675		1.00	uS/cm	1	3111802	AP	18-Nov-13	120.1	
pH*	8.12		0.100	pH Units	1	3111804	AP	15-Nov-13	9045	
Sulfate	ND		125	mg/kg	12.5	3112202	AP	22-Nov-13	375.4	
Alkalinity, Total*	108		4.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		105 %	89.4-126			3111001	MS	11-Nov-13	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctane		105 %	65.2-140			3110801	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctadecane		112 %	63.6-154			3110801	MS	08-Nov-13	8015B	

**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	92.0			%	1	B311113	JGS	12-Nov-13	EPA160.3	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

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JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**11 A (3')**  
**H302718-18 (Soil)**

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

**Green Analytical Laboratories**
**Total Metals by ICP**

Aluminum	11000	0.149	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Calcium	3110	0.390	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Copper	2.57	0.223	2.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Iron	9250	0.397	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Magnesium	1570	1.90	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Manganese	73.9	0.036	0.500	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Potassium	1970	36.4	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Sodium	65.0	0.405	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Zinc	24.1	0.254	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	

**Total Metals by ICPMS**

senic	2.07	0.138	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Barium	52.9	0.0411	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Cadmium	0.296	0.0400	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Chromium	7.05	0.0956	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Lead	5.03	0.0302	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Selenium	ND	0.411	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Silver	ND	0.0123	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	

**Total Mercury by CVAA**

Mercury	0.0135	0.0106	0.103	mg/kg dry	476	B311126	JGS	14-Nov-13	EPA7471	J
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Jeley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**11 B (1')  
 H302718-19 (Soil)**

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

Chloride	ND		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-CL-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3111001	MS	11-Nov-13	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	89.4-126		3111001	MS	11-Nov-13	8021B	
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctane			109 %	65.2-140		3110801	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctadecane			115 %	63.6-154		3110801	MS	08-Nov-13	8015B	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**11 B (3')**  
**H302718-20 (Soil)**

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

Alkalinity, Bicarbonate	508		5.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	
Alkalinity, Carbonate	ND		0.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	
Chloride	20.0		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B	
Conductivity	292		1.00	uS/cm	1	3111803	AP	18-Nov-13	120.1	
pH*	8.30		0.100	pH Units	1	3111804	AP	15-Nov-13	9045	
Sulfate	375		250	mg/kg	25	3112202	AP	22-Nov-13	375.4	
Alkalinity, Total*	416		4.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
o-xylene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3111001	MS	11-Nov-13	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126 3111001 MS 11-Nov-13 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	

Surrogate: 1-Chlorooctane 98.5 % 65.2-140 3110801 MS 08-Nov-13 8015B

Surrogate: 1-Chlorooctadecane 106 % 63.6-154 3110801 MS 08-Nov-13 8015B

**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	93.4		%	1	B311113	JGS	12-Nov-13	EPA160.3		
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Deley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**11 B (3')  
 H302718-20 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Aluminum	8470	0.149	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Calcium	1340	0.390	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Copper	1.61	0.223	2.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Iron	7720	0.397	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Magnesium	1170	1.90	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Manganese	49.8	0.036	0.500	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Potassium	1560	36.4	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Sodium	207	0.405	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Zinc	17.0	0.254	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	

**Total Metals by ICPMS**

Arsenic	2.00	0.138	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Barium	42.3	0.0411	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Cadmium	0.221	0.0400	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Chromium	6.40	0.0956	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Lead	4.24	0.0302	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Selenium	ND	0.411	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Silver	ND	0.0123	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	

**Total Mercury by CVAA**

Mercury	0.0125	0.0106	0.104	mg/kg dry	485	B311126	JGS	14-Nov-13	EPA7471	J
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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**11 B - 1 (1')  
 H302718-21 (Soil)**

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

Chloride	52.0	16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B	
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND	0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Toluene*	ND	0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Ethylbenzene*	ND	0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Total Xylenes*	ND	0.150	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Total BTEX	ND	0.300	mg/kg	50	3111001	MS	11-Nov-13	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126 3111001 MS 11-Nov-13 8021B

**Petroleum Hydrocarbons by GC FID**

IO C6-C10	ND	50.0	mg/kg	5	3110801	MS	08-Nov-13	8015B	
DRO >C10-C28	80.4	50.0	mg/kg	5	3110801	MS	08-Nov-13	8015B	

Surrogate: 1-Chlorooctane 71.1 % 65.2-140 3110801 MS 08-Nov-13 8015B

Surrogate: 1-Chlorooctadecane 100 % 63.6-154 3110801 MS 08-Nov-13 8015B

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Seley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**11 B - 1 (3')  
 H302718-22 (Soil)**

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

Alkalinity, Bicarbonate	132		5.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	
Alkalinity, Carbonate	ND		0.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	
Chloride	88.0		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B	
Conductivity	809		1.00	uS/cm	1	3111803	AP	18-Nov-13	120.1	
pH*	7.95		0.100	pH Units	1	3111805	AP	15-Nov-13	9045	
Sulfate	201		50.0	mg/kg	5	3112202	AP	22-Nov-13	375.4	
Alkalinity, Total*	108		4.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			107 %	89.4-126		3111001	MS	11-Nov-13	8021B	

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctane			90.8 %	65.2-140		3110801	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctadecane			101 %	63.6-154		3110801	MS	08-Nov-13	8015B	

**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	94.4			%	1	B311113	JGS	12-Nov-13	EPA160.3	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**11 B - 1 (3')**  
**H302718-22 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Aluminum	7050	0.149	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Calcium	1770	0.390	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Copper	1.60	0.223	2.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Iron	6680	0.397	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Magnesium	1100	1.90	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Manganese	50.3	0.036	0.500	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Potassium	1440	36.4	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Sodium	208	0.405	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Zinc	15.7	0.254	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	

**Total Metals by ICPMS**

Asenic	1.61	0.138	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Barium	29.0	0.0411	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Cadmium	0.182	0.0400	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Chromium	5.06	0.0956	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Lead	3.56	0.0302	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Selenium	ND	0.411	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Silver	ND	0.0123	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	

**Total Mercury by CVAA**

Mercury	0.0184	0.0108	0.105	mg/kg dry	495	B311126	JGS	14-Nov-13	EPA7471	J
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**11 C (1')  
 H302718-23 (Soil)**

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

Chloride	ND	16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND	0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B
Toluene*	ND	0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B
Ethylbenzene*	ND	0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B
Total Xylenes*	ND	0.150	mg/kg	50	3111001	MS	11-Nov-13	8021B
Total BTEX	ND	0.300	mg/kg	50	3111001	MS	11-Nov-13	8021B

Surrogate: 4-Bromofluorobenzene (PID)	107 %	89.4-126	3111001	MS	11-Nov-13	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND	10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B
DRO >C10-C28	11.1	10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B


Surrogate: 1-Chlorooctane	77.3 %	65.2-140	3110801	MS	08-Nov-13	8015B
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Surrogate: 1-Chlorooctadecane	87.5 %	63.6-154	3110801	MS	08-Nov-13	8015B
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**11C (3')**  
**H302718-24 (Soil)**

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

Alkalinity, Bicarbonate	10.0		5.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	
Alkalinity, Carbonate	ND		0.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	
Chloride	ND		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B	
Conductivity	233		1.00	uS/cm	1	3111803	AP	18-Nov-13	120.1	
pH*	7.37		0.100	pH Units	1	3111805	AP	15-Nov-13	9045	
Sulfate	116		25.0	mg/kg	2.5	3112202	AP	22-Nov-13	375.4	
Alkalinity, Total*	8.00		4.00	mg/kg	1	3101608	AP	19-Nov-13	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3111001	MS	11-Nov-13	8021B	

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 89.4-126 3111001 MS 11-Nov-13 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	

Surrogate: 1-Chlorooctane 81.5 % 65.2-140 3110801 MS 08-Nov-13 8015B

Surrogate: 1-Chlorooctadecane 91.7 % 63.6-154 3110801 MS 08-Nov-13 8015B

**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	93.9			%	1	B311113	JGS	12-Nov-13	EPA160.3	
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Jeley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**11C (3')  
 H302718-24 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Aluminum	7340	0.149	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Calcium	1280	0.390	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Copper	1.85	0.223	2.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Iron	7210	0.397	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Magnesium	1170	1.90	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Manganese	71.1	0.036	0.500	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Potassium	1360	36.4	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Sodium	14.8	0.405	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Zinc	17.5	0.254	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	

**Total Metals by ICPMS**

Arsenic	1.75	0.138	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Barium	32.0	0.0411	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Cadmium	0.175	0.0400	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Chromium	5.36	0.0956	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Lead	4.10	0.0302	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Selenium	ND	0.411	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Silver	ND	0.0123	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	

**Total Mercury by CVAA**

Mercury	0.0158	0.0108	0.105	mg/kg dry	495	B311126	JGS	14-Nov-13	EPA7471	J
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**12A (1')**  
**H302718-25 (Soil)**

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

Chloride	ND	16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND	0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B
Toluene*	ND	0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B
Ethylbenzene*	ND	0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B
Total Xylenes*	ND	0.150	mg/kg	50	3111001	MS	11-Nov-13	8021B
Total BTEX	ND	0.300	mg/kg	50	3111001	MS	11-Nov-13	8021B

Surrogate: 4-Bromofluorobenzene (PID)	106 %	89.4-126	3111001	MS	11-Nov-13	8021B
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**Petroleum Hydrocarbons by GC FID**

RO C6-C10	ND	50.0	mg/kg	5	3110801	MS	08-Nov-13	8015B
DRO >C10-C28	115	50.0	mg/kg	5	3110801	MS	08-Nov-13	8015B

Surrogate: 1-Chlorooctane	82.2 %	65.2-140	3110801	MS	08-Nov-13	8015B
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Surrogate: 1-Chlorooctadecane	109 %	63.6-154	3110801	MS	08-Nov-13	8015B
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Seley D. Keene, Lab Director/Quality Manager

### Analytical Results For:

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

### 12 A (3') H302718-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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#### Cardinal Laboratories

#### Inorganic Compounds

Alkalinity, Bicarbonate	229		5.00	mg/kg	1	3112110	AP	20-Nov-13	310.1	
Alkalinity, Carbonate	ND		0.00	mg/kg	1	3112110	AP	20-Nov-13	310.1	
Chloride	ND		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B	
Conductivity	152		1.00	uS/cm	1	3111803	AP	18-Nov-13	120.1	
pH*	7.26		0.100	pH Units	1	3111805	AP	15-Nov-13	9045	
Sulfate	ND		250	mg/kg	25	3112202	AP	22-Nov-13	375.4	
Alkalinity, Total*	188		4.00	mg/kg	1	3112110	AP	20-Nov-13	310.1	

#### Volatile Organic Compounds by EPA Method 8021

Benzene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	89.4-126		3111001	MS	11-Nov-13	8021B	

#### Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctane			98.0 %	65.2-140		3110801	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctadecane			109 %	63.6-154		3110801	MS	08-Nov-13	8015B	

#### Green Analytical Laboratories

#### General Chemistry

% Dry Solids	94.6		%	1	B311113	JGS	12-Nov-13	EPA160.3		
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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

JOHN H. HENDRIX CORPORATION P. O. BOX 3040 MIDLAND TX, 79702	Project: JHHC SWMF NM-02-0021 Project Number: NOT GIVEN Project Manager: CAROLYN DORAN HAYNES Fax To: (575) 394-2653	Reported: 22-Nov-13 15:07
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**12 A (3')**  
**H302718-26 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Aluminum	6490	0.149	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Calcium	982	0.390	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Copper	1.78	0.223	2.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Iron	6490	0.397	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Magnesium	1020	1.90	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Manganese	63.1	0.036	0.500	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Potassium	1340	36.4	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Sodium	34.2	0.405	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Zinc	15.3	0.254	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	

**Total Metals by ICPMS**

Arsenic	1.45	0.138	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Barium	31.7	0.0411	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Cadmium	0.136	0.0400	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Chromium	5.09	0.0956	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Lead	4.07	0.0302	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Selenium	ND	0.411	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Silver	ND	0.0123	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	

**Total Mercury by CVAA**

Mercury	0.0135	0.0106	0.104	mg/kg dry	490	B311126	JGS	14-Nov-13	EPA7471	J
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**12A-1 (1')  
 H302718-27 (Soil)**

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

Chloride	ND	16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND	0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B
Toluene*	ND	0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B
Ethylbenzene*	ND	0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B
Total Xylenes*	ND	0.150	mg/kg	50	3111001	MS	11-Nov-13	8021B
Total BTEX	ND	0.300	mg/kg	50	3111001	MS	11-Nov-13	8021B
Surrogate: 4-Bromofluorobenzene (PID)	106 %	89.4-126			3111001	MS	11-Nov-13	8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND	10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B
DRO >C10-C28	19.7	10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B
Surrogate: 1-Chlorooctane	113 %	65.2-140			3110801	MS	08-Nov-13	8015B
Surrogate: 1-Chlorooctadecane	127 %	63.6-154			3110801	MS	08-Nov-13	8015B

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Celey D. Keene, Lab Director/Quality Manager

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 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**12 A - 1 (3')  
 H302718-28 (Soil)**

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

Alkalinity, Bicarbonate	239		5.00	mg/kg	1	3112110	AP	20-Nov-13	310.1	
Alkalinity, Carbonate	ND		0.00	mg/kg	1	3112110	AP	20-Nov-13	310.1	
Chloride	ND		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B	
Conductivity	144		1.00	uS/cm	1	3111803	AP	18-Nov-13	120.1	
pH*	8.05		0.100	pH Units	1	3111805	AP	15-Nov-13	9045	
Sulfate	ND		500	mg/kg	50	3112202	AP	22-Nov-13	375.4	
Alkalinity, Total*	196		4.00	mg/kg	1	3112110	AP	20-Nov-13	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3111001	MS	11-Nov-13	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126 3111001 MS 11-Nov-13 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	

Surrogate: 1-Chlorooctane 92.2 % 65.2-140 3110801 MS 08-Nov-13 8015B

Surrogate: 1-Chlorooctadecane 98.6 % 63.6-154 3110801 MS 08-Nov-13 8015B

**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	90.7			%	1	B311113	JGS	12-Nov-13	EPA160.3	
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**12 A - 1 (3')  
 H302718-28 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Aluminum	10600	0.149	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Calcium	1580	0.390	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Copper	1.92	0.223	2.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Iron	9610	0.397	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Magnesium	1620	1.90	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Manganese	66.2	0.036	0.500	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Potassium	2100	36.4	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Sodium	135	0.405	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Zinc	21.7	0.254	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	

**Total Metals by ICPMS**

Arsenic	2.35	0.138	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Barium	45.0	0.0411	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Cadmium	0.267	0.0400	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Chromium	6.65	0.0956	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Lead	5.06	0.0302	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Selenium	ND	0.411	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Silver	ND	0.0123	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	

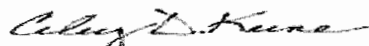
**Total Mercury by CVAA**

Mercury	0.0136	0.0108	0.105	mg/kg dry	476	B311126	JGS	14-Nov-13	EPA7471	J
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**12 B (1')  
 H302718-29 (Soil)**

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

<b>Chloride</b>	ND	16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B
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**Volatile Organic Compounds by EPA Method 8021**

<b>Benzene*</b>	ND	0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B
<b>Toluene*</b>	ND	0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B
<b>Ethylbenzene*</b>	ND	0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B
<b>Total Xylenes*</b>	ND	0.150	mg/kg	50	3111001	MS	11-Nov-13	8021B
<b>Total BTEX</b>	ND	0.300	mg/kg	50	3111001	MS	11-Nov-13	8021B

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	106 %	89.4-126	3111001	MS	11-Nov-13	8021B
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**Petroleum Hydrocarbons by GC FID**

<b>RO C6-C10</b>	ND	10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B
<b>DRO &gt;C10-C28</b>	ND	10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B

<i>Surrogate: 1-Chlorooctane</i>	79.4 %	65.2-140	3110801	MS	08-Nov-13	8015B
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<i>Surrogate: 1-Chlorooctadecane</i>	89.8 %	63.6-154	3110801	MS	08-Nov-13	8015B
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**12B (3')  
 H302718-30 (Soil)**

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

Alkalinity, Bicarbonate	185		5.00	mg/kg	1	3112110	AP	20-Nov-13	310.1	
Alkalinity, Carbonate	ND		0.00	mg/kg	1	3112110	AP	20-Nov-13	310.1	
Chloride	ND		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B	
Conductivity	87.8		1.00	uS/cm	1	3111803	AP	18-Nov-13	120.1	
pH*	7.91		0.100	pH Units	1	3111805	AP	15-Nov-13	9045	
Sulfate	ND		500	mg/kg	50	3112202	AP	22-Nov-13	375.4	
Alkalinity, Total*	152		4.00	mg/kg	1	3112110	AP	20-Nov-13	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3111001	MS	11-Nov-13	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126 3111001 MS 11-Nov-13 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	

Surrogate: 1-Chlorooctane 95.4 % 65.2-140 3110801 MS 08-Nov-13 8015B

Surrogate: 1-Chlorooctadecane 107 % 63.6-154 3110801 MS 08-Nov-13 8015B

**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	93.5			%	1	B311113	JGS	12-Nov-13	EPA160.3	
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**12B (3')**  
**H302718-30 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Aluminum	7540	0.149	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Calcium	1110	0.390	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Copper	1.60	0.223	2.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Iron	7270	0.397	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Magnesium	1140	1.90	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Manganese	60.2	0.036	0.500	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Potassium	1510	36.4	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Sodium	37.9	0.405	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Zinc	16.5	0.254	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	

**Total Metals by ICPMS**

Arsenic	1.79	0.138	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Barium	31.3	0.0411	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Cadmium	0.210	0.0400	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Chromium	5.91	0.0956	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Lead	4.09	0.0302	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Selenium	ND	0.411	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Silver	ND	0.0123	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	

**Total Mercury by CVAA**

Mercury	0.0122	0.0104	0.102	mg/kg dry	476	B311126	JGS	14-Nov-13	EPA7471	J
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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

12 C (1')

H302718-31 (Soil)

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

Chloride	ND	16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B
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**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND	0.050	mg/kg	50	3111301	MS	13-Nov-13	8021B
Toluene*	ND	0.050	mg/kg	50	3111301	MS	13-Nov-13	8021B
Ethylbenzene*	ND	0.050	mg/kg	50	3111301	MS	13-Nov-13	8021B
Total Xylenes*	ND	0.150	mg/kg	50	3111301	MS	13-Nov-13	8021B
Total BTEX	ND	0.300	mg/kg	50	3111301	MS	13-Nov-13	8021B

Surrogate: 4-Bromofluorobenzene (PID)	108 %	89.4-126	3111301	MS	13-Nov-13	8021B
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**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND	10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B
DRO >C10-C28	ND	10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B

Surrogate: 1-Chlorooctane	91.6 %	65.2-140	3110801	MS	08-Nov-13	8015B
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Surrogate: 1-Chlorooctadecane	101 %	63.6-154	3110801	MS	08-Nov-13	8015B
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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**12C (3')**  
**H302718-32 (Soil)**

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

Alkalinity, Bicarbonate	54.0		5.00	mg/kg	1	3112110	AP	20-Nov-13	310.1	
Alkalinity, Carbonate	ND		0.00	mg/kg	1	3112110	AP	20-Nov-13	310.1	
Chloride	ND		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B	
Conductivity	67.9		1.00	uS/cm	1	3111803	AP	18-Nov-13	120.1	
pH*	7.57		0.100	pH Units	1	3111805	AP	15-Nov-13	9045	
Sulfate	791		500	mg/kg	50	3112202	AP	22-Nov-13	375.4	
Alkalinity, Total*	44.0		4.00	mg/kg	1	3112110	AP	20-Nov-13	310.1	

**Volatile Organic Compounds by EPA Method 8021**

Benzene*	ND		0.050	mg/kg	50	3111301	MS	13-Nov-13	8021B	
Toluene*	ND		0.050	mg/kg	50	3111301	MS	13-Nov-13	8021B	
o-xylbenzene*	ND		0.050	mg/kg	50	3111301	MS	13-Nov-13	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	3111301	MS	13-Nov-13	8021B	
Total BTEX	ND		0.300	mg/kg	50	3111301	MS	13-Nov-13	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 104 % 89.4-126 3111301 MS 13-Nov-13 8021B

**Petroleum Hydrocarbons by GC FID**

GRO C6-C10	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	

Surrogate: 1-Chlorooctane 80.8 % 65.2-140 3110801 MS 08-Nov-13 8015B

Surrogate: 1-Chlorooctadecane 87.4 % 63.6-154 3110801 MS 08-Nov-13 8015B


**Green Analytical Laboratories**
**General Chemistry**

% Dry Solids	92.7			%	1	B311113	JGS	12-Nov-13	EPA160.3	
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Seley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**12C (3')**  
**H302718-32 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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**Green Analytical Laboratories**
**Total Metals by ICP**

Aluminum	7520	0.149	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Calcium	1470	0.390	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Copper	2.00	0.223	2.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Iron	7290	0.397	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Magnesium	1270	1.90	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Manganese	70.0	0.036	0.500	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Potassium	1450	36.4	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	
Sodium	5.17	0.405	100	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	J
Zinc	17.6	0.254	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13	EPA6010 B	

**Total Metals by ICPMS**

Arsenic	1.71	0.138	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Barium	38.3	0.0411	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Cadmium	0.203	0.0400	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Chromium	6.07	0.0956	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Lead	4.18	0.0302	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Selenium	ND	0.411	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	
Silver	ND	0.0123	0.100	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	

**Total Mercury by CVAA**

Mercury	0.0145	0.0106	0.104	mg/kg dry	481	B311126	JGS	14-Nov-13	EPA7471	J
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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

### Inorganic Compounds - Quality Control

#### Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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#### Batch 3101608 - General Prep - Wet Chem

##### Blank (3101608-BLK1)

Prepared & Analyzed: 16-Oct-13

Alkalinity, Carbonate	ND	0.00	mg/kg							
Alkalinity, Bicarbonate	ND	5.00	mg/kg							
Alkalinity, Total	ND	4.00	mg/kg							

##### LCS (3101608-BS1)

Prepared & Analyzed: 16-Oct-13

Alkalinity, Carbonate	ND	0.00	mg/kg				80-120			
Alkalinity, Bicarbonate	132	5.00	mg/kg				80-120			
Alkalinity, Total	108	4.00	mg/kg	100		108	80-120			

##### LCS Dup (3101608-BSD1)

Prepared & Analyzed: 16-Oct-13

Alkalinity, Carbonate	ND	0.00	mg/kg				80-120		20	
Alkalinity, Bicarbonate	136	5.00	mg/kg				80-120	2.99	20	
Alkalinity, Total	112	4.00	mg/kg	100		112	80-120	3.64	20	

#### Batch 3111502 - 1:4 DI Water

##### Blank (3111502-BLK1)

Prepared & Analyzed: 15-Nov-13

Chloride	ND	16.0	mg/kg							
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##### LCS (3111502-BS1)

Prepared & Analyzed: 15-Nov-13

Chloride	416	16.0	mg/kg	400		104	80-120			
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##### LCS Dup (3111502-BSD1)

Prepared & Analyzed: 15-Nov-13

Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20	
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#### Batch 3111503 - 1:4 DI Water

##### Blank (3111503-BLK1)

Prepared & Analyzed: 15-Nov-13

Chloride	ND	16.0	mg/kg							
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Deley D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION P. O. BOX 3040 MIDLAND TX, 79702	Project: JHHC SWMF NM-02-0021 Project Number: NOT GIVEN Project Manager: CAROLYN DORAN HAYNES Fax To: (575) 394-2653	Reported: 22-Nov-13 15:07
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**Inorganic Compounds - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 3111503 - 1:4 DI Water</b>										
<b>LCS (3111503-BS1)</b>				Prepared & Analyzed: 15-Nov-13						
Chloride	400	16.0	mg/kg	400		100	80-120			
<b>LCS Dup (3111503-BSD1)</b>				Prepared & Analyzed: 15-Nov-13						
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	
<b>Batch 3111802 - General Prep - Wet Chem</b>										
<b>LCS (3111802-BS1)</b>				Prepared & Analyzed: 18-Nov-13						
Conductivity	473		uS/cm	500		94.6	80-120			
<b>Duplicate (3111802-DUP1)</b>				Source: H302718-02 Prepared & Analyzed: 18-Nov-13						
Conductivity	2020	1.00	uS/cm		2170			7.31	20	
<b>Batch 3111803 - General Prep - Wet Chem</b>										
<b>LCS (3111803-BS1)</b>				Prepared & Analyzed: 18-Nov-13						
Conductivity	474		uS/cm	500		94.8	80-120			
<b>Duplicate (3111803-DUP1)</b>				Source: H302718-20 Prepared & Analyzed: 18-Nov-13						
Conductivity	292	1.00	uS/cm		292			0.00	20	
<b>Batch 3111804 - NO PREP</b>										
<b>LCS (3111804-BS1)</b>				Prepared & Analyzed: 15-Nov-13						
pH	7.14		pH Units	7.00		102	90-110			

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**Inorganic Compounds - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3111804 - NO PREP**

Duplicate (3111804-DUP1) Source: H302718-02 Prepared &amp; Analyzed: 15-Nov-13

pH	6.84	0.100	pH Units	6.75	1.32	20
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**Batch 3111805 - NO PREP**

LCS (3111805-BS1) Prepared &amp; Analyzed: 15-Nov-13

pH	7.11	pH Units	7.00	102	90-110
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Duplicate (3111805-DUP1) Source: H302718-22 Prepared &amp; Analyzed: 15-Nov-13

pH	7.97	0.100	pH Units	7.95	0.251	20
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**Batch 3112110 - General Prep - Wet Chem**

Blank (3112110-BLK1) Prepared &amp; Analyzed: 21-Nov-13

Alkalinity, Carbonate	ND	0.00	mg/kg
Alkalinity, Bicarbonate	ND	5.00	mg/kg
Alkalinity, Total	ND	4.00	mg/kg

LCS (3112110-BS1) Prepared &amp; Analyzed: 21-Nov-13

Alkalinity, Carbonate	ND	0.00	mg/kg	80-120
Alkalinity, Bicarbonate	122	5.00	mg/kg	80-120
Alkalinity, Total	100	4.00	mg/kg	100 80-120

LCS Dup (3112110-BSD1) Prepared &amp; Analyzed: 21-Nov-13

Alkalinity, Carbonate	ND	0.00	mg/kg	80-120	20
Alkalinity, Bicarbonate	136	5.00	mg/kg	80-120	10.9 20
Alkalinity, Total	112	4.00	mg/kg	100 112 80-120	11.3 20

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Seley D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653Reported:  
22-Nov-13 15:07**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 3112202 - General Prep - Wet Chem</b>										
<b>Blank (3112202-BLK1)</b>				Prepared: 21-Nov-13 Analyzed: 22-Nov-13						
Sulfate	ND	10.0	mg/kg							
<b>LCS (3112202-BS1)</b>				Prepared: 21-Nov-13 Analyzed: 22-Nov-13						
Sulfate	20.2	10.0	mg/kg	20.0		101	80-120			
<b>LCS Dup (3112202-BSD1)</b>				Prepared: 21-Nov-13 Analyzed: 22-Nov-13						
Sulfate	20.0	10.0	mg/kg	20.0		100	80-120	0.796	20	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3110804 - Volatiles**
**Blank (3110804-BLK1)**

Prepared: 08-Nov-13 Analyzed: 12-Nov-13

Benzene	ND	0.050	mg/kg
Toluene	ND	0.050	mg/kg
Ethylbenzene	ND	0.050	mg/kg
Total Xylenes	ND	0.150	mg/kg
Total BTEX	ND	0.300	mg/kg

Surrogate: 4-Bromofluorobenzene (PID)	0.0527		mg/kg	0.0500	105	89.4-126
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**LCS (3110804-BS1)**

Prepared: 08-Nov-13 Analyzed: 12-Nov-13

Benzene	1.91	0.050	mg/kg	2.00	95.6	76.4-135
Toluene	1.92	0.050	mg/kg	2.00	96.1	80.2-135
Ethylbenzene	1.92	0.050	mg/kg	2.00	96.2	78.5-133
Total Xylenes	5.62	0.150	mg/kg	6.00	93.7	80.1-135

Surrogate: 4-Bromofluorobenzene (PID)	0.0534		mg/kg	0.0500	107	89.4-126
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**LCS Dup (3110804-BSD1)**

Prepared: 08-Nov-13 Analyzed: 12-Nov-13

Benzene	1.97	0.050	mg/kg	2.00	98.7	76.4-135	3.22	16.4
Toluene	1.97	0.050	mg/kg	2.00	98.6	80.2-135	2.59	16.6
Ethylbenzene	1.98	0.050	mg/kg	2.00	98.9	78.5-133	2.77	16.1
Total Xylenes	5.77	0.150	mg/kg	6.00	96.2	80.1-135	2.65	15.8

Surrogate: 4-Bromofluorobenzene (PID)	0.0520		mg/kg	0.0500	104	89.4-126
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**Batch 3111001 - Volatiles**
**Blank (3111001-BLK1)**

Prepared: 10-Nov-13 Analyzed: 11-Nov-13

Benzene	ND	0.050	mg/kg
Toluene	ND	0.050	mg/kg
Ethylbenzene	ND	0.050	mg/kg
Total Xylenes	ND	0.150	mg/kg
Total BTEX	ND	0.300	mg/kg

Surrogate: 4-Bromofluorobenzene (PID)	0.0539		mg/kg	0.0500	108	89.4-126
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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3111001 - Volatiles**
**LCS (3111001-BS1)**

Prepared: 10-Nov-13 Analyzed: 11-Nov-13

Benzene	1.97	0.050	mg/kg	2.00		98.4	76.4-135			
Toluene	1.99	0.050	mg/kg	2.00		99.7	80.2-135			
Ethylbenzene	2.00	0.050	mg/kg	2.00		99.8	78.5-133			
Total Xylenes	5.91	0.150	mg/kg	6.00		98.6	80.1-135			
Surrogate: 4-Bromofluorobenzene (PID)	0.0538		mg/kg	0.0500		108	89.4-126			

**LCS Dup (3111001-BS1)**

Prepared: 10-Nov-13 Analyzed: 11-Nov-13

Benzene	1.96	0.050	mg/kg	2.00		98.0	76.4-135	0.377	16.4	
Toluene	1.97	0.050	mg/kg	2.00		98.5	80.2-135	1.22	16.6	
Ethylbenzene	1.96	0.050	mg/kg	2.00		98.1	78.5-133	1.66	16.1	
Total Xylenes	5.78	0.150	mg/kg	6.00		96.3	80.1-135	2.32	15.8	
Surrogate: 4-Bromofluorobenzene (PID)	0.0528		mg/kg	0.0500		106	89.4-126			

**Batch 3111301 - Volatiles**
**Blank (3111301-BLK1)**

Prepared &amp; Analyzed: 13-Nov-13

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0537		mg/kg	0.0500		107	89.4-126			

**LCS (3111301-BS1)**

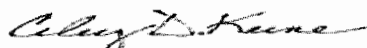
Prepared: 13-Nov-13 Analyzed: 14-Nov-13

Benzene	1.66	0.050	mg/kg	2.00		83.0	76.4-135			
Toluene	1.68	0.050	mg/kg	2.00		84.2	80.2-135			
Ethylbenzene	1.69	0.050	mg/kg	2.00		84.7	78.5-133			
Total Xylenes	5.13	0.150	mg/kg	6.00		85.4	80.1-135			
Surrogate: 4-Bromofluorobenzene (PID)	0.0559		mg/kg	0.0500		112	89.4-126			

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

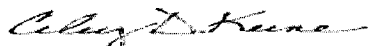
**Volatile Organic Compounds by EPA Method 8021 - Quality Control**
**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 3111301 - Volatiles</b>									
<b>LCS Dup (3111301-BSD1)</b>									
Prepared: 13-Nov-13 Analyzed: 14-Nov-13									
Benzene	1.88	0.050	mg/kg	2.00		94.1 76.4-135	12.6	16.4	
Toluene	1.90	0.050	mg/kg	2.00		94.8 80.2-135	11.8	16.6	
Ethylbenzene	1.91	0.050	mg/kg	2.00		95.4 78.5-133	11.9	16.1	
Total Xylenes	5.70	0.150	mg/kg	6.00		95.0 80.1-135	10.6	15.8	
Surrogate: 4-Bromofluorobenzene (PID)	0.0538		mg/kg	0.0500		108 89.4-126			

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 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 3110706 - General Prep - Organics**
**Blank (3110706-BLK1)**

Prepared: 07-Nov-13 Analyzed: 08-Nov-13

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	41.0		mg/kg	50.0		81.9	65.2-140			
Surrogate: 1-Chlorooctadecane	41.3		mg/kg	50.0		82.5	63.6-154			

**LCS (3110706-BS1)**

Prepared: 07-Nov-13 Analyzed: 08-Nov-13

GRO C6-C10	192	10.0	mg/kg	200		96.2	66.4-124			
DRO >C10-C28	195	10.0	mg/kg	200		97.6	61.6-132			
Surrogate: 1-Chlorooctane	48.7		mg/kg	50.0		97.4	65.2-140			
Surrogate: 1-Chlorooctadecane	58.1		mg/kg	50.0		116	63.6-154			

**LCS Dup (3110706-BSD1)**

Prepared: 07-Nov-13 Analyzed: 08-Nov-13

GRO C6-C10	194	10.0	mg/kg	200		97.0	66.4-124	0.759	23.4	
DRO >C10-C28	193	10.0	mg/kg	200		96.3	61.6-132	1.32	23.1	
Surrogate: 1-Chlorooctane	49.8		mg/kg	50.0		99.7	65.2-140			
Surrogate: 1-Chlorooctadecane	56.8		mg/kg	50.0		114	63.6-154			

**Batch 3110801 - General Prep - Organics**
**Blank (3110801-BLK1)**

Prepared &amp; Analyzed: 08-Nov-13

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	52.7		mg/kg	50.0		105	65.2-140			
Surrogate: 1-Chlorooctadecane	56.5		mg/kg	50.0		113	63.6-154			

**LCS (3110801-BS1)**

Prepared &amp; Analyzed: 08-Nov-13

GRO C6-C10	201	10.0	mg/kg	200		100	66.4-124			
DRO >C10-C28	206	10.0	mg/kg	200		103	61.6-132			
Surrogate: 1-Chlorooctane	50.4		mg/kg	50.0		101	65.2-140			
Surrogate: 1-Chlorooctadecane	60.7		mg/kg	50.0		121	63.6-154			

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 3110801 - General Prep - Organics</b>									
<b>LCS Dup (3110801-BSD1)</b>				Prepared & Analyzed: 08-Nov-13					
GRO C6-C10	210	10.0	mg/kg	200	105	66.4-124	4.67	23.4	
DRO >C10-C28	202	10.0	mg/kg	200	101	61.6-132	1.71	23.1	
Surrogate: 1-Chlorooctane	51.5		mg/kg	50.0	103	65.2-140			
Surrogate: 1-Chlorooctadecane	56.6		mg/kg	50.0	113	63.6-154			

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 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**Total Metals by ICP - Quality Control**
**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B311108 - EPA 3050**
**Blank (B311108-BLK1)**

Prepared &amp; Analyzed: 12-Nov-13

Potassium	ND	1.00	mg/kg dry							
Magnesium	ND	1.00	mg/kg dry							
Aluminum	0.011	0.050	mg/kg dry							J
Zinc	0.005	0.050	mg/kg dry							J
Calcium	0.015	1.00	mg/kg dry							J
Copper	ND	0.020	mg/kg dry							
Iron	0.017	0.050	mg/kg dry							J
Manganese	0.0006	0.005	mg/kg dry							J
Sodium	ND	1.00	mg/kg dry							

**LCS (B311108-BS1)**

Prepared &amp; Analyzed: 12-Nov-13

Sodium	6.07	1.00	mg/kg dry	6.48		93.6	85-115			
Calcium	3.92	1.00	mg/kg dry	4.00		97.9	85-115			
Iron	3.95	0.050	mg/kg dry	4.00		98.7	85-115			
Aluminum	3.97	0.050	mg/kg dry	4.00		99.2	85-115			
Zinc	1.90	0.050	mg/kg dry	2.00		94.9	85-115			
Potassium	7.79	1.00	mg/kg dry	8.00		97.4	85-115			
Magnesium	19.9	1.00	mg/kg dry	20.0		99.5	85-115			
Copper	3.84	0.020	mg/kg dry	4.00		95.9	85-115			
Manganese	1.91	0.005	mg/kg dry	2.00		95.7	85-115			

**LCS Dup (B311108-BSD1)**

Prepared &amp; Analyzed: 12-Nov-13

Sodium	6.04	1.00	mg/kg dry	6.48		93.3	85-115	0.387	20	
Manganese	1.91	0.005	mg/kg dry	2.00		95.4	85-115	0.307	20	
Aluminum	3.96	0.050	mg/kg dry	4.00		99.0	85-115	0.106	20	
Iron	3.96	0.050	mg/kg dry	4.00		99.1	85-115	0.328	20	
Calcium	3.90	1.00	mg/kg dry	4.00		97.5	85-115	0.415	20	
Copper	3.83	0.020	mg/kg dry	4.00		95.8	85-115	0.196	20	
Potassium	7.47	1.00	mg/kg dry	8.00		93.4	85-115	4.17	20	
Magnesium	19.8	1.00	mg/kg dry	20.0		99.2	85-115	0.316	20	
Zinc	1.89	0.050	mg/kg dry	2.00		94.7	85-115	0.199	20	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**Total Metals by ICP - Quality Control**
**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B311108 - EPA 3050**

Matrix Spike (B311108-MS1)		Source: H302718-06		Prepared & Analyzed: 12-Nov-13						
Manganese	251	0.500	mg/kg dry	200	57.8	96.7	70-130			
Aluminum	10100	5.00	mg/kg dry	400	4420	NR	70-130			M3
Potassium	3000	100	mg/kg dry	800	1080	239	70-130			M3
Calcium	996	100	mg/kg dry	400	571	106	70-130			
Iron	6390	5.00	mg/kg dry	400	4830	388	70-130			M3
Magnesium	3040	100	mg/kg dry	2000	684	118	70-130			
Zinc	202	5.00	mg/kg dry	200	10.6	95.6	70-130			
Sodium	839	100	mg/kg dry	648	153	106	70-130			
Copper	387	2.00	mg/kg dry	400	1.76	96.4	70-130			

Matrix Spike (B311108-MS2)		Source: H302718-20		Prepared & Analyzed: 12-Nov-13						
Magnesium	3870	100	mg/kg dry	2000	1170	135	70-130			M3
Aluminum	1800	100	mg/kg dry	400	1340	115	70-130			
Iron	10100	5.00	mg/kg dry	400	7720	603	70-130			M3
Sodium	862	100	mg/kg dry	648	207	101	70-130			
Zinc	216	5.00	mg/kg dry	200	17.0	99.7	70-130			
Manganese	251	0.500	mg/kg dry	200	49.8	101	70-130			
Aluminum	17900	5.00	mg/kg dry	400	8470	NR	70-130			M3
Copper	401	2.00	mg/kg dry	400	1.61	99.7	70-130			
Potassium	3800	100	mg/kg dry	800	1560	281	70-130			M3

Matrix Spike Dup (B311108-MSD1)		Source: H302718-06		Prepared & Analyzed: 12-Nov-13						
Calcium	975	100	mg/kg dry	400	571	101	70-130	2.17	20	
Iron	5300	5.00	mg/kg dry	400	4830	118	70-130	18.5	20	
Aluminum	9580	5.00	mg/kg dry	400	4420	NR	70-130	5.11	20	M3
Potassium	2790	100	mg/kg dry	800	1080	213	70-130	7.17	20	M3
Zinc	201	5.00	mg/kg dry	200	10.6	95.4	70-130	0.184	20	
Magnesium	3000	100	mg/kg dry	2000	684	116	70-130	1.38	20	
Copper	377	2.00	mg/kg dry	400	1.76	93.8	70-130	2.68	20	
Sodium	812	100	mg/kg dry	648	153	102	70-130	3.27	20	
Manganese	246	0.500	mg/kg dry	200	57.8	94.2	70-130	1.99	20	

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07


**Total Metals by ICP - Quality Control**
**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B311108 - EPA 3050</b>										
<b>Matrix Spike Dup (B311108-MSD2)</b>		<b>Source: H302718-20</b>			<b>Prepared &amp; Analyzed: 12-Nov-13</b>					
Copper	392	2.00	mg/kg dry	400	1.61	97.5	70-130	2.23	20	
Potassium	3810	100	mg/kg dry	800	1560	282	70-130	0.242	20	M3
Calcium	1820	100	mg/kg dry	400	1340	119	70-130	0.790	20	
Iron	10200	5.00	mg/kg dry	400	7720	619	70-130	0.665	20	M3
Magnesium	3850	100	mg/kg dry	2000	1170	134	70-130	0.539	20	M3
Sodium	848	100	mg/kg dry	648	207	98.9	70-130	1.67	20	
Manganese	248	0.500	mg/kg dry	200	49.8	98.9	70-130	1.34	20	
Zinc	213	5.00	mg/kg dry	200	17.0	98.2	70-130	1.36	20	
Aluminum	18000	5.00	mg/kg dry	400	8470	NR	70-130	0.466	20	M3

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

**Total Metals by ICPMS - Quality Control**
**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch B311109 - EPA 3050M**
**Blank (B311109-BLK1)**

Prepared: 12-Nov-13 Analyzed: 13-Nov-13

Arsenic	ND	0.0005	mg/kg dry							
Selenium	ND	0.0010	mg/kg dry							
Lead	ND	0.0005	mg/kg dry							
Chromium	ND	0.0010	mg/kg dry							
Silver	ND	0.0001	mg/kg dry							
Barium	0.0002	0.0005	mg/kg dry							
Cadmium	ND	0.0001	mg/kg dry							

**LCS (B311109-BS1)**

Prepared: 12-Nov-13 Analyzed: 13-Nov-13

Cadmium	0.0487	0.0001	mg/kg dry	0.0500		97.4	85-115			
Arsenic	0.0493	0.0005	mg/kg dry	0.0500		98.7	85-115			
Chromium	0.0507	0.0010	mg/kg dry	0.0500		101	85-115			
Lead	0.0489	0.0005	mg/kg dry	0.0500		97.8	85-115			
Silver	0.0558	0.0001	mg/kg dry	0.0500		112	85-115			
Barium	0.0488	0.0005	mg/kg dry	0.0500		97.5	85-115			
Selenium	0.248	0.0010	mg/kg dry	0.250		99.1	85-115			

**LCS Dup (B311109-BSD1)**

Prepared: 12-Nov-13 Analyzed: 13-Nov-13

Arsenic	0.0477	0.0005	mg/kg dry	0.0500		95.5	85-115	3.33	20	
Barium	0.0468	0.0005	mg/kg dry	0.0500		93.7	85-115	3.99	20	
Cadmium	0.0479	0.0001	mg/kg dry	0.0500		95.8	85-115	1.67	20	
Chromium	0.0500	0.0010	mg/kg dry	0.0500		100	85-115	1.36	20	
Lead	0.0466	0.0005	mg/kg dry	0.0500		93.2	85-115	4.80	20	
Selenium	0.244	0.0010	mg/kg dry	0.250		97.6	85-115	1.57	20	
Silver	0.0561	0.0001	mg/kg dry	0.0500		112	85-115	0.564	20	

**Matrix Spike (B311109-MS1)**

Source: H302718-04

Prepared: 12-Nov-13 Analyzed: 13-Nov-13

Silver	5.49	0.100	mg/kg dry	5.00	ND	110	70-130			
Selenium	24.8	1.00	mg/kg dry	25.0	ND	99.1	70-130			
Cadmium	5.32	0.100	mg/kg dry	5.00	0.218	102	70-130			
Arsenic	7.67	0.500	mg/kg dry	5.00	2.65	100	70-130			
Chromium	11.5	1.00	mg/kg dry	5.00	7.27	84.4	70-130			
Barium	42.4	0.500	mg/kg dry	5.00	41.8	12.2	70-130			M3

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Celey D. Keene, Lab Director/Quality Manager

### Analytical Results For:

JOHN H. HENDRIX CORPORATION  
P. O. BOX 3040  
MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021  
Project Number: NOT GIVEN  
Project Manager: CAROLYN DORAN HAYNES  
Fax To: (575) 394-2653

Reported:  
22-Nov-13 15:07

### Total Metals by ICPMS - Quality Control

### Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B311109 - EPA 3050M</b>										
<b>Matrix Spike (B311109-MS1)</b>		<b>Source: H302718-04</b>		<b>Prepared: 12-Nov-13 Analyzed: 13-Nov-13</b>						
Lead	10.4	0.500	mg/kg dry	5.00	5.52	97.9	70-130			
<b>Matrix Spike (B311109-MS2)</b>		<b>Source: H302718-22</b>		<b>Prepared: 12-Nov-13 Analyzed: 13-Nov-13</b>						
Arsenic	6.71	0.500	mg/kg dry	5.00	1.61	102	70-130			
Barium	34.3	0.500	mg/kg dry	5.00	29.0	104	70-130			
Selenium	25.4	1.00	mg/kg dry	25.0	ND	102	70-130			
Chromium	10.5	1.00	mg/kg dry	5.00	5.06	108	70-130			
Lead	8.52	0.500	mg/kg dry	5.00	3.56	99.3	70-130			
Cadmium	5.07	0.100	mg/kg dry	5.00	0.182	97.7	70-130			
Silver	5.58	0.100	mg/kg dry	5.00	ND	112	70-130			
<b>Matrix Spike Dup (B311109-MSD1)</b>		<b>Source: H302718-04</b>		<b>Prepared: 12-Nov-13 Analyzed: 13-Nov-13</b>						
Selenium	25.6	1.00	mg/kg dry	25.0	ND	102	70-130	3.11	20	
Cadmium	5.26	0.100	mg/kg dry	5.00	0.218	101	70-130	1.14	20	
Barium	48.2	0.500	mg/kg dry	5.00	41.8	129	70-130	12.9	20	M3
Arsenic	7.78	0.500	mg/kg dry	5.00	2.65	103	70-130	1.55	20	
Silver	5.61	0.100	mg/kg dry	5.00	ND	112	70-130	2.22	20	
Chromium	11.9	1.00	mg/kg dry	5.00	7.27	92.7	70-130	3.56	20	
Lead	10.2	0.500	mg/kg dry	5.00	5.52	93.1	70-130	2.30	20	
<b>Matrix Spike Dup (B311109-MSD2)</b>		<b>Source: H302718-22</b>		<b>Prepared: 12-Nov-13 Analyzed: 13-Nov-13</b>						
Arsenic	6.78	0.500	mg/kg dry	5.00	1.61	103	70-130	1.06	20	
Chromium	10.3	1.00	mg/kg dry	5.00	5.06	105	70-130	1.40	20	
Lead	8.45	0.500	mg/kg dry	5.00	3.56	97.9	70-130	0.844	20	
Cadmium	5.20	0.100	mg/kg dry	5.00	0.182	100	70-130	2.67	20	
Silver	5.64	0.100	mg/kg dry	5.00	ND	113	70-130	1.16	20	
Barium	36.3	0.500	mg/kg dry	5.00	29.0	146	70-130	5.84	20	M3
Selenium	26.2	1.00	mg/kg dry	25.0	ND	105	70-130	3.03	20	

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Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 JOHN H. HENDRIX CORPORATION  
 P. O. BOX 3040  
 MIDLAND TX, 79702

 Project: JHHC SWMF NM-02-0021  
 Project Number: NOT GIVEN  
 Project Manager: CAROLYN DORAN HAYNES  
 Fax To: (575) 394-2653

 Reported:  
 22-Nov-13 15:07

**Total Mercury by CVAA - Quality Control**  
**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch B311126 - EPA 7471</b>										
<b>Blank (B311126-BLK1)</b>				Prepared & Analyzed: 14-Nov-13						
Mercury	ND	0.0002	mg/kg wet							
<b>LCS (B311126-BS1)</b>				Prepared & Analyzed: 14-Nov-13						
Mercury	0.0020	0.0002	mg/kg wet	0.00200		102	85-115			
<b>LCS Dup (B311126-BSD1)</b>				Prepared & Analyzed: 14-Nov-13						
Mercury	0.0020	0.0002	mg/kg wet	0.00200		101	85-115	0.888	20	
<b>Matrix Spike (B311126-MS1)</b>				Source: 1311019-01 Prepared & Analyzed: 14-Nov-13						
Mercury	1.25	0.120	mg/kg dry	1.21	ND	103	75-125			
<b>Matrix Spike (B311126-MS2)</b>				Source: H302718-12 Prepared & Analyzed: 14-Nov-13						
Mercury	1.10	0.106	mg/kg dry	1.06	0.0123	103	75-125			
<b>Matrix Spike (B311126-MS3)</b>				Source: H302718-32 Prepared & Analyzed: 14-Nov-13						
Mercury	1.09	0.106	mg/kg dry	1.08	0.0145	100	75-125			
<b>Matrix Spike Dup (B311126-MSD1)</b>				Source: 1311019-01 Prepared & Analyzed: 14-Nov-13						
Mercury	1.21	0.116	mg/kg dry	1.21	ND	99.7	75-125	2.91	200	
<b>Matrix Spike Dup (B311126-MSD2)</b>				Source: H302718-12 Prepared & Analyzed: 14-Nov-13						
Mercury	1.04	0.103	mg/kg dry	1.06	0.0123	97.2	75-125	5.43	200	
<b>Matrix Spike Dup (B311126-MSD3)</b>				Source: H302718-32 Prepared & Analyzed: 14-Nov-13						
Mercury	1.06	0.103	mg/kg dry	1.08	0.0145	96.6	75-125	3.43	200	

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
M3	Matrix spike recovery did not meet acceptance criteria. Accuracy of the spike is reduced since the analyte concentration in the sample is disproportionate to spike level.
J	Estimated concentration. Analyte concentration between MDL and RL.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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---

Celey D. Keene, Lab Director/Quality Manager

101 East Marland - Hobbs, New  
Mexico 88240  
Tel (575) 393-2326  
Fax (575) 393-2476

# Cardinal Laboratories, Inc.

Company Name:

John H. Hendrix Corporation

BILL TO Company:

John H. Hendrix Corporation

PO#

Project Manager:

Carolyn Haynes

Project Manager:

Carolyn Haynes

Address: (Street, City, Zip)

PO Box 910, Eunice NM 88231

Address: (Street, City, Zip)

PO Box 3040, Midland TX 79702-3040

Phone #:

(575) 394-2649

Fax#:

(432) 684-6631

Email:

cdoranhaynes@jhnc.org

Project #:

John H. Hendrix Corporation

Project Name:

JHNC Surface Waste Management Facility (NM-02-0021)

Project Location:

T24S, R36E, Sec 15, W/2 NW/4 & W/2 SW/4, Lea County NM Gil Van Deventer

Sampler Name:

LAB #

FIELD CODE

LAB USE ONLY  
H302718

(G)rab or (C)omp

# CONTAINERS

MATRIX

PRESERVATIVE METHOD

SAMPLING

WATER  
SOIL  
AIR  
SLUDGE  
HCL  
HNO<sub>3</sub>  
NaHSO<sub>4</sub>  
H<sub>2</sub>SO<sub>4</sub>  
ICE  
None

DATE

TIME

MTBE 8021B/602

BTEX 8021 B

TPH 8015M

PAH 8270C

RCRA Metals: Ag As Ba Cd Cr Pb Se Hg

WQCC Metals: Al Cu Fe Mn Zn

TCLP Volatiles

TCLP Semi Volatiles

TCLP Pesticides

RCI

GC/MS Vol. 8260B/624

GC/MS Semi. Vol. 8270C/625

Moisture Content

Cations (Ca, Mg, K, Na)

Anions (Cl, SO<sub>4</sub>, CO<sub>3</sub>, HCO<sub>3</sub>, T-ALK)

Total Dissolved Solids (SM2540C)

Chlorides (SM4500 B or 300.1)

SPLP Chloride

Turn Around Time ~ 24 Hours

LAB Order ID #

ANALYSIS REQUEST  
(Circle or Specify Method No.)

Relinquished by: *[Signature]* Date: 11/7/13 Time: 8:50

Received by:

Date: Time:

Received By: (Laboratory Staff)

Date: Time:

Date: Time:

Date: Time:

Phone Results

Fax Results

Yes

No

Yes

No

Additional Fax Number:

REMARKS:

Email Results to:

cdoranhaynes@jhnc.org

gil@trident-environmental.com

Delivered By: (Circle One)

Sample Condition

Cool Intact

CHECKED BY:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Sampler - UPS - Bus - Other:

3.88

No

(Initials)

Date: Time:

Date: Time:

Date: Time:

Date: Time:

Date: Time:

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#54

**Cardinal Laboratories, Inc.**

Page 2 of 3  
ANALYSIS REQUIRED

Company Name:						BILL TO Company:						PO#					
John H. Hendrix Corporation						John H. Hendrix Corporation											
Project Manager:						Project Manager:											
Carolyn Haynes						Carolyn Haynes											
Address: (Street, City, Zip)						Address: (Street, City, Zip)						Fax#:					
PO Box 910, Eunice NM 88231						PO Box 3040, Midland TX 79702-3040											
Phone #:						Phone #:						Email:					
(575) 394-2649						(575) 394-2653						cdoranhaynes@jhhc.org					
Project #:						Project Name:											
John H. Hendrix Corporation						JHHC Surface Waste Management Facility (NM-02-0021)											
Project Location:						Sampler Name:											
T24S, R36E, Sec 15, W/2 NW/4 & W/2 SW/4, Lea County NM						Gil Van Deventer											
LAB #		FIELD CODE		MATRIX		PRESERVATIVE METHOD		SAMPLING									
(LAB USE ONLY)																	
H302718																	
11		10B-1 (1')		G		1		X		DATE		TIME					
12		10B-1 (3')		G		2		X		11/5/13		12:15					
13		10C (1')		G		1		X		11/5/13		11:10					
14		10C (3')		G		2		X		11/5/13		11:15					
15		10C-1 (1')		G		1		X		11/5/13		11:20					
16		10C-1 (3')		G		2		X		11/5/13		11:25					
17		11A (1')		G		1		X		11/5/13		13:00					
18		11A (3')		G		2		X		11/5/13		13:05					
19		11B (1')		G		1		X		11/5/13		13:20					
20		11B (2')		G		2		X		11/5/13		13:25					
Relinquished by:		Date:		Time:		Received by:		Date:		Time:							
Relinquished by:		Date:		Time:		Received by:		Date:		Time:							
Delivered By: (Circle One)		Sample Condition		CHECKED BY:		REMARKS:		Email Results to:		Additional Fax Number:							
UPS - Bus - Other:		Cool Yes No		Imact Yes No		(Initials)		cdoranhaynes@jhhc.org		gil@trident-environmental.com							
3.89es		No		Yes		AA											
ANALYSIS REQUEST		(Circle or Specify Method No.)															
MTBE 8021B/602		BTEx 8021 B		TPH 8015M		PAH 8270C		RCRA Metals: Ag As Ba Cd Cr Pb Se Hg		WQCC Metals: Al Cu Fe Mn Zn		TCLP Volatiles					
TCLP Semi Volatiles		TCLP Pesticides		RCI		GC/MS Vol. 8260B/624		GC/MS Semi. Vol. 8270C/625		Moisture Content		Cations (Ca, Mg, K, Na)					
Anions (Cl, SO4, CO3, HCO3, T-ALK)		Total Dissolved Solids (SM2540C)		Chlorides (SM4500 B or 300.1)		SPLP Chloride		Turn Around Time ~ 24 Hours									

101 East Marland - Hobbs, New Mexico 88240  
Tel (575) 393-2326  
Fax (575) 393-2476

# Cardinal Laboratories, Inc.

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID #

### ANALYSIS REQUEST (Circle or Specify Method No.)

Company Name:

John H. Hendrix Corporation

BILL TO Company:

John H. Hendrix Corporation

PO#

Project Manager:

Carolyn Haynes

Address: (Street, City, Zip)

PO Box 910, Eunice NM 88231

Address: (Street, City, Zip)

PO Box 3040, Midland TX 79702-3040

Phone #:

(575) 394-2649 (575) 394-2653

Phone #:

(432) 684-6631 cdoranhaynes@jhnc.org

Project #:

John H. Hendrix Corporation

Project Name:

JHNC Surface Waste Management Facility (NM-02-0021)

Project Location:

T24S, R36E, Sec 15, W/2 NW/4 & W/2 SW/4, Lea County NM Gil Van Deventer

LAB # (LAB USE ONLY)	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	MATRIX							PRESERVATIVE METHOD							SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCL	HNO <sub>3</sub>	NaHSO <sub>4</sub>	H <sub>2</sub> SO <sub>4</sub>	ICE	None	DATE				TIME	
21	11B-1 (1')	G	1	X	X							X		11/5/13	1330				
22	11B-1 (3')	G	2	X	X							X		11/5/13	1335				
23	11C (1')	G	1	X	X							X		11/5/13	1410				
24	11C (3')	G	2	X	X							X		11/5/13	1415				
25	12A (1')	G	1	X	X							X		11/5/13	1500				
26	12A (3')	G	2	X	X							X		11/5/13	1510				
27	12A-1 (1')	G	1	X	X							X		11/5/13	1520				
28	12A-1 (3')	G	2	X	X							X		11/5/13	1530				
29	12B (1')	G	1	X	X							X		11/5/13	1440				
30	12B (3')	G	2	X	X							X		11/5/13	1450				
31	12C (1')	G	1	X	X							X		11/5/13	1425				
32	12C (3')	G	2	X	X							X		11/5/13	1430				

Relinquished by:

Date: 11/7/13 Time: 8:50

Received by: (Laboratory Staff)

Date: 11/7/13 Time: 8:50

Delivered By: (Circle One)

Sample Condition

Cool Intact

CHECKED BY:

(Initials)

Sampler - UPS - Bus - Other:

38 Yes No

4 Yes No

(Initials)

REMARKS:

Phone Results

Fax Results

Additional Fax Number:

Email Results to: cdoranhaynes@jhnc.org  
gil@trident-environmental.com

MTBE 8021B/602	X
BTEX 8021 B	X
TPH 8015M	X
PAH 8270C	X
RCRA Metals: Ag As Ba Cd Cr Pb Se Hg	X
WQCC Metals: Al Cu Fe Mn Zn	X
TCLP Volatiles	X
TCLP Semi Volatiles	X
TCLP Pesticides	X
RCI	X
GC/MS Vol. 8260B/624	X
GC/MS Semi. Vol. 8270C/625	X
Moisture Content	X
Cations (Ca, Mg, K, Na)	X
Anions (Cl, SO <sub>4</sub> , CO <sub>3</sub> , HCO <sub>3</sub> , T-ALK)	X
Total Dissolved Solids (SM2540C)	X
Chlorides (SM4500 B or 300.1)	X
SPLP Chloride	X
Turn Around Time ~ 24 Hours	X