NM2 - ____21____

GENERAL CORRESPONDENCE YEAR(S):

___2013 - 2015____

State of New Mexico Energy, Minerals and Natural Resources Department

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 POL 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 semiannual. 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.iones@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,

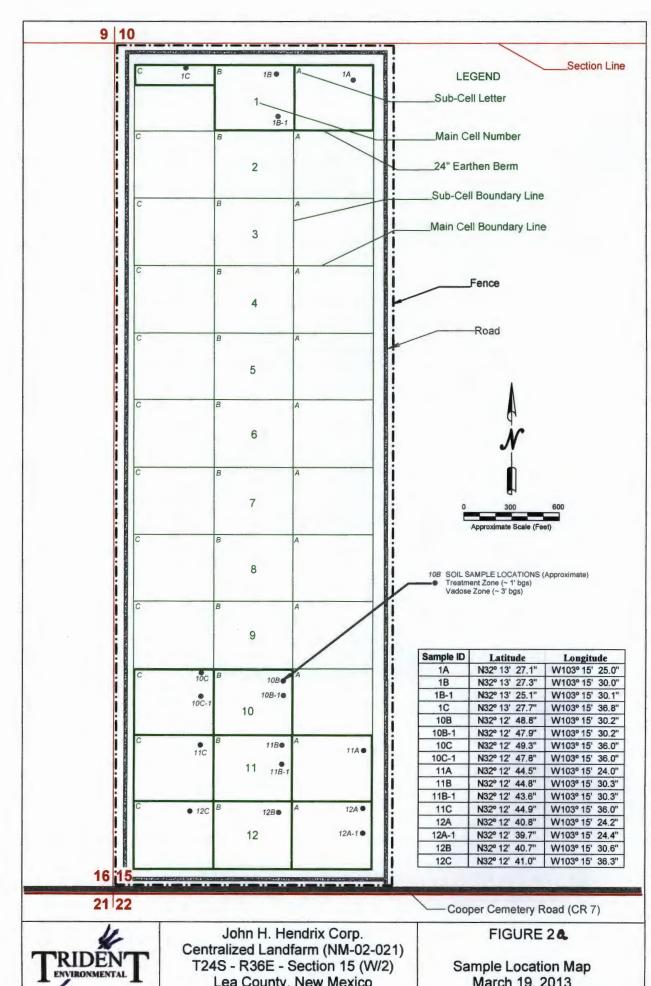
Gilbert J. Van Deventer, REM, PG

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)



Lea County, New Mexico

March 19, 2013

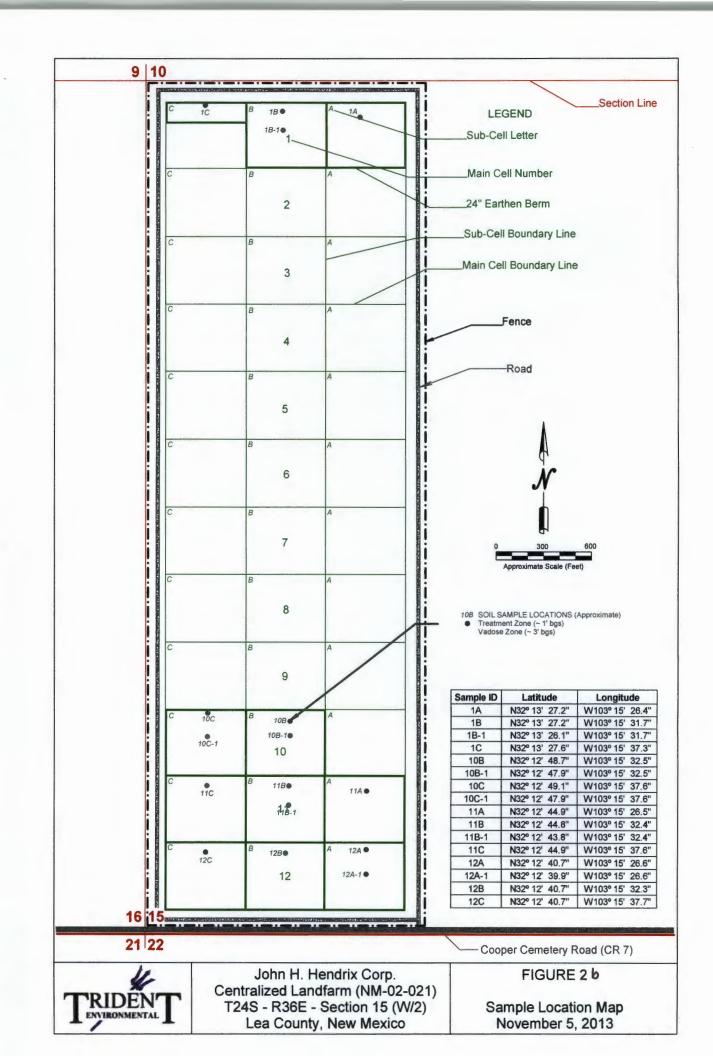


Table 1

		Summar	nary of BTEX, TPH, and Chloride Concentrations - Soil Analytical Results	TPH, and	Chloride	Concenti	ations -	Soil Anal	ytical Re	sults		
Cell						Ethyl-			GRO	DRO	ТРН	
No.	Sample	Sample	Sample ID	Benzene	Toluene	benzene	Xylene	BTEX	C6-C10	C10-C28	C6-C28	Chloride
Ltr.	Date	Zone	(Depth)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
7B	11/29/04	Background	Facility (2' -3')	<0.025	<0.025	<0.025	<0.025	<0.1	<10	<10	<20	<20
	03/19/13	Treatment	1A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	9.1
1 4	11/05/13	Hearmein	1A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	20
צו	03/19/13	Vadose	1A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20 <20	80
	11/05/13	v aduse	1A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	430
	03/19/13		1B (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	7.7
	03/19/13	Treatment	1B-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20 <20	33
	11/05/13	Traillein	1B (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	~70 ~70	<16
10	11/05/13	,	1B-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	89
<u>a</u>	03/19/13		1B (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20 <20	32
	03/19/13	Vodoso	1B-1 (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	~70 ~70	128
	11/05/13	vauuse	1B (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	~70 ~70	240
	11/05/13		1B-1 (3')	<0.050	< 0.050	<0.050	<0.150	<0.300	<10	<10	<20	24
	03/19/13	Tecotmont	1C (1)	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	9.1
7	11/05/13	Heatinein	1C (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	~70 ~70	12.9
٦	03/19/13	Voden	1C (3')	<0.500	<0.050	<0.50	<0.150	<0.300	<10	<10	<20 <20	80
	11/05/13	v auuse	1C(3')	<0.500	<0.050	<0.50	<0.150	<0.300	<10	<10	<20	24
	03/19/13		10 B (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	30
	03/19/13	Trantmont	10B-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	51.1	51.1	48
	11/05/13	Heamein	10B (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<50	3800	3800	216
001	11/05/13		10B-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<50	872	872	110
gor	03/19/13		10B (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	0.6
	03/19/13	Vadoco	10B-1 (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	17
	11/05/13	v auuse	10 B (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
	03/19/13		10C(1)	<0.050	<0.050	<0.050	<0.150	<0.300	<50	70.1	70.1	15
	03/19/13	Trootmont	10C-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<50	9170	9170	352
	11/05/13	11 catillellt	10C (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<50	181	181	44
100	11/05/13		10C-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	34	34	<16
100	03/19/13		10C (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	~50 ~50	25
	03/19/13	Vadose	10C-1 (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	15.2	<25	9.0
	11/05/13	200	10C (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	~10 7	750	32
	11/05/13		10C-1 (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	0I>	770	0. V

Table 1: Page 1 of 2

Table 1

		Summ	Summary of BTEX, TPH, and Chloride Concentrations - Soil Analytical Results	TPH, and	Chloride	Concentr	rations - 🤅	Soil Anal	ytical Re	sults		
Cell						Ethyl-			GRO	DRO	TPH	
No.	Sample	Sample	Sample ID	Benzene	Toluene	benzene	Xylene	BTEX	C6-C10	C10-C28	C6-C28	Chloride
Ltr.	Date	Zone	(Depth)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	03/19/13	Treatment	11A (1)	<0.050	<0.050	<0.050	<0.150	<0.300	<50	81	81	11
114	11/05/13	Heatiment	11A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	17.4	<20	<16
VII	03/19/13	өзореД	11A (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	32
	[11/05/13]	v autos	11A (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	84
	03/19/13		11B (1')	<0.050	050'0>	<0.050	<0.150	<0.300	<20	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	ויסמוווסוור	11B (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	<16
1112	11/05/13		11B-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<50	80.4	80.4	52
7	03/19/13		11B (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	128
	03/19/13	Vadoca	11B-1 (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20 <20	«
	11/05/13	v aduse	11B (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	20
	11/05/13		11B-1 (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	88
	03/19/13	Theortmont	11C (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<20	<50	<100	32
711	11/05/13	reaument	11C (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	11.1	11.1	<16
ر ا	03/19/13	Voden	11C (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	08
	11/05/13	v adose	11C (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	<16
	03/19/13		12A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	8
	03/19/13	Tuest	12A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20 <20	9
	11/05/13	rearment	12A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<50	115	115	<16
ć	11/05/13		12A-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	19.7	<30	<16
H7I	03/19/13		12A (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	<16
	03/19/13	1/00000	12A-1 (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20 <20	<16
_	11/05/13	v adose	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
	03/19/13	Tucotmont	12B (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	6
120	11/05/13	Healinein	12B (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	<16
17D	03/19/13	Vodese	12B (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<20	32
	11/05/13	v aduse	12B (3')	<0.050	< 0.050	<0.050	<0.150	<0.300	<10	<10	<20	<16
	03/19/13	Treatment		<0.050	<0.050	<0.050	<0.050	<0.300	<10	<10	~ 70 70	10
120	11/05/13		12C (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	770	<16
771	03/19/13	Vadose	12C (3') 12C (3')	<0.050	<0.050	<0.050	<0.150	<0.300	0 7	<10 <10 <10	7 70	13 <16
	C1 /C0 /11			0.55.5		020.0	251.5	00000	2			

Table 1: Page 2 of 2

Table 2
Summary of Metal Concentrations - Soil Analytical Results

Cell	Sample	Sample	Sample ID			Subse	Subsection A Metals (mg/kg)	detals (n	ıg/kg)			Subse	Subsection B Metals (mg/kg)	1etals (n	ıg/kg)
No.	Date	Type	(Depth in Ft)	As	Ag	Ba	Сд	Cr	Pb	Hg	Se	Cu	Fe	Mn	Zn
, 7B	11/29/04	Background	Background Facility (2' -3')	3.65	<0.25	202	0.341	3.01	0.5	<0.25	<0.2	*			
-	04/12/07	Background	SS-1A (2' -3')	3.23	<0.094	55.4	0.196	13.4	6.84	<0.016	1.70				
CT .	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
	04/12/07	Background	SS-1B (2' -3')	3.05	980.0>	48.4	0.178	12.5	9:30	<0.014	1.46		-		
1B	11/05/13	1/00/000	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	v adose	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		-		
ر ا	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
	01/07/08	Background	10B (2' -3')	1.24	<0.2	23.0	<0.3	5.24	3.05	<0.04	1.01	477			
10B	11/05/13	1704000	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	v adose	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
	01/02/08	Background	10C (2'-3')	1.43	<0.2	23.5	<0.3	5.31	3.36	<0.04	1.08				-
10C	11/05/13	17.1000	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	v adose	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
-	01/02/08	Background	11A (2' -3')	1.53	<0.2	27.1	<0.3	5.93	3.46	<0.04	0.938		1	-	1
IIA	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
	01/02/08	Background	11B (2'-3')	1.23	<0.2	21.8	<0.3	4.98	3.53	<0.04	0.735		1	1	!
11B	11/05/13	17.1	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	v adose	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
1.	10/15/07	Background	SS-11C (2' -3')	2.67	<0.2	300	0.113	5.47	2.62	<0.04	0.490				-
) I I	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
	04/12/07	Background	SS-12A (2' -3')	2.90	<0.2	50.8	0.176	11.4	5.61	<0.04	1.40		-	-	
12A	11/05/13	Vodes	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	v autose	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
100	01/02/08	Background	SS-12B (2' -3')	2.58	<0.2	236	0.202	92.5	3.08	<0.04	1.07	!	-	ì	-
12D	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
120	04/12/07		Background SS-12C (2' -3')	1.89	<0.2	62.6	0.152	6.43	3.60	<0.04	1.34	i	Ì	:	-
140	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
	Д	3ackground Sc	Background Screening Values	3.84	0.273	507	0.341	13.4	7.20	0.156	1.81		-	1	
							D 1	, ,						l I	

Table 2: Page 1 of 1

Table 3

Summary of Major Ion Concentrations - Soil Analytical Results

	Comple		Somple ID	0	Cations (mg/kg)	ng/kg)			Anion	Anions (mg/kg)	_
Cell No.		Sample Zone	(Depth)	Ca	Mg	K	Na	ָ ב	SO ₄	T-Alk	нсо3
7B	11/29/04	Background	Facility (2' -3')	220,000	2,240	274	2,060	<20	<2.5	1,340	
1	04/12/07	Background	SS-1A (2' -3')	1,650	2,300	2,980	30.5	<4.98	96.6>	76.1	***
W1	11/05/13	Vadose	1A (3')	1,700	2,000	2,420	846	430	661	20.0	24.4
	04/12/07	Background	SS-1B (2' -3')	1,570	2,140	2,950	30.2	96'7>	<9.92	89.1	1
1B	11/05/13	Vodoso	1B (3')	1,790	1,870	2,190	139	240	14.3	52.0	64.0
	11/05/13	vauose	1B-1 (3')	571	684	1,080	153	24.0	<500	220	210
7	04/12/07	Background	SS-1C (2' -3')	2,290	1,720	1,740	19.2	<4.93	98.6>	166	<49.8
) 	11/05/13	Vadose	1C (3')	1,250	1,400	1,960	58.7	24.0	<500	88.0	107
	01/02/08	Background	10B (2' -3')	533	602	896	<12.5	<5.21	<10.4	<52.1	<52.1
10B	11/05/13	V_{adoco}	10B (3')	8,440	029	848	3.41	48	27.9	84.0	102
	11/05/13	vauose	10B-1 (3')	1,280	1,120	1,330	28.2	140	127	112	137
	01/02/08	Background	10C (2' -3')	513	554	868	<12.6	<5.13	<10.3	<51.0	<51.0
10C	11/05/13	V_{adoco}	10C (3')	1,110	1,140	1,420	103	32	220	32.0	39.0
	11/05/13	v autose	10C-1 (3')	1,640	1,090	1,280	8.06	<16	129	100	122
11 4	01/02/08	Background	11A (2' -3')	642	658	1,030	<12.7	<5.17	<10.3	56.0	56.0
VII	11/05/13	Vadose	11A (3')	3,110	1,570	1,970	65.0	84	<125	108	132
	01/02/08	Background	11B (2' -3')	482	494	608	<12.6	<5.14	<10.3	<51.6	<51.6
11B	11/05/13	$esope \Lambda$	11B (3')	1,340	1,170	1,560	207	70	375	416	208
	11/05/13	v autose	11B-1 (3')	1,770	1,100	1,440	208	88	201	108	132
110	10/12/01	Background	SS-11C (2' -3')	170,000	2,160	1,090	73	<5.64	41.4	318	<56.6
211	11/05/13	Vadose	11C (3')	1,280	1,170	1,360	14.8	<16	116	8.0	10.0
	04/12/07	Background	SS-12A (2' -3')	1,980	2,030	2,210	23.2	<4.97	<9.94	163	<50
12A	11/05/13	Vodoso	12A (3')	882	1,020	1,340	34.2	32	<250	188	229
	11/05/13	vauose	12A-1 (3')	1,580	1,620	2,100	135	10	<500	196	239
12B	01/02/08	Background	SS-12B (2' -3')	256,000	3,330	1,320	91	<4.88	23	700	<49.8
17D	11/05/13	Vadose	12B (3')	1,110	1,140	1,510	37.9	4	<500	152	185
120	04/12/07	Background	SS-12C (2' -3')	53,400	1,170	1,280	29.9	<4.97	<9.94	909	<49.8
771	11/05/13	Vadose	12C (3')	1,470	1,270	1,450	5.17	<16	791	44.0	54.0

Table 3: Page 1 of 1



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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celay D. Keine

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



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/l	(g	Analyze	d 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 (PIL	104 %	6 89.4-120	5						
Chloride, SM4500CI-B	mg/l	(g	Analyze	d 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/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	6 65.2-140)						

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Celey L. Keine



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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: 1 A (3') (H300659-02)

BTEX 8021B	mg/	kg	Analyze	d By: AP	<u>.</u>				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 (PIL	130 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS				*****	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	109 9	% 63.6-15	4						

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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: 1 B (1') (H300659-03)

BTEX 8021B	mg/	kg	Analyze	d 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	126 %	6 89.4-12	6						-
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	6 65.2-14	0						7.0
Surrogate: 1-Chlorooctadecane	106 %	63.6-15	4						

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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	Analyze	d By: AP					5-04
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 (PIL	128 9	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 9	63.6-15	4						

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Celeg Esterne



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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: 1 B - 1 (1') (H300659-05)

BTEX 8021B	mg/	kg	Analyze	d 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 (PIL	127 9	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	114 %	63.6-15	4						

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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: 1 B - 1 (3') (H300659-06)

BTEX 8021B	mg/	kg	Analyze	d 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	NĐ					
Surrogate: 4-Bromofluorobenzene (PIL	124 %	6 89.4-12	6				10.00		
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS		,			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 %	63.6-15	4						

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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 C (1') (H300659-07)

BTEX 8021B	mg/	kg	Analyze	d 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	122 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	65.2-14	0						
Surrogate: 1-Chlorooctadecane	107 9	63.6-15	4						

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Received:

03/19/2013

Sampling Date:

03/19/2013

Reported:

Sampling Type:

Soil

03/27/2013

Sampling Condition:

Project Name:

JHHC SWMF NM-02-0021

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	Analyze	d 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	123 9	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					*******
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0		,,, -		And the second s		
Surrogate: 1-Chlorooctadecane	95.2	63.6-15	4						

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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') (H300659-09)

BTEX 8021B	mg/	kg	Analyze	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	123 9	% 89.4-12	6			79			
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 9	63.6-15							

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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	Analyze	d 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 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	103 %	63.6-15	4						

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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	Analyze	d 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 9	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS		····			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116 9	63.6-15	4						

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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	Analyze	d 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 9	% 89.4-12	6				-		
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 %	63.6-15	4						

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Received:

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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	Analyze	d 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	123 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 9	% 63.6-15	4						

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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: 10 C (3') (H300659-14)

BTEX 8021B	mg/	kg	Analyze	d 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	119%	6 89.4-12	6						-,-
Chloride, SM4500Cl-B	mg/l	kg	Analyze	d 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/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	65.2-14	0						
Surrogate: 1-Chlorooctadecane	112 %	63.6-15	4						

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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: 10 C - 1 (1') (H300659-15)

BTEX 8021B	mg/	kg	Analyze	d 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	119 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	407 9	6 63.6-15	4						

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Fax To:

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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: 10 C - 1 (3') (H300659-16)

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	1179	63.6-15	4						

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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: 11 A (1') (H300659-17)

BTEX 8021B	mg/	kg	Analyze	d 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 9	6 89.4-12	6	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	% 65.2-14	0			<u> </u>	17.		
Surrogate: I-Chlorooctadecane	118 %	6 63.6-15	4						

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03/19/2013

Reported:

Sampling Type:

Soil

Project Name:

03/27/2013 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)

BTEX 8021B	mg/	kg	Analyze	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	103 9	% 89.4-12	6			- 100 - 100		4	
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 %	63.6-15	4						

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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	Analyze	d 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	103 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	8S	% 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	75.69	65.2-14	0		7				
Surrogate: 1-Chlorooctadecane	137 %	63.6-15	4						

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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)

BTEX 8021B	mg/	kg	Analyze	d 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 9	% 89.4-12	6	7					2474
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0					House	
Surrogate: 1-Chlorooctadecane	105 9	63.6-15	4						

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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 9	% 89.4-12	6				4.		
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	% 65.2-14	0						
	09.4	70 05.2-14	0						

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Received:

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Sampling Date:

03/19/2013

Reported:

03/27/2013

Sampling Type:

Soil

Project Name:

03/2//2013

Sampling Condition:

Cool & Intact

Droject Number

JHHC SWMF NM-02-0021

Sampling Condition: Sample Received By: Jodi Henson

Project Number: Project Location: NOT GIVEN

T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/

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

BTEX 8021B	mg/kg		Analyze	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	103	% 89.4-12	6				(11900 B) Lite		
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108	% 63.6-15	4						

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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/	mg/kg Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	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	1 06	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 9	6 89.4-12	6						
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	Analyze	d 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	% 65.2-14	0			.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
Surrogate: 1-Chlorooctadecane	104 9	63.6-15	4						

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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 (PIL	104 %	6 89.4-12	6						-71-11-11
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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: I-Chlorooctane	90.69	65.2-14	0						
Surrogate: 1-Chlorooctadecane	109 %	63.6-15	4						

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Received:

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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 3	6.24	104	6.00	1.06	
Total BTEX	<0.300	0.300	03/22/2013	ND			,		
Surrogate: 4-Bromofluorobenzene (PIL	103 %	6 89.4-12	6						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0	V					
Surrogate: 1-Chlorooctadecane	118 %	63.6-15	4						

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

Received:

03/19/2013

Sampling Date:

03/19/2013

Reported:

03/27/2013

Sampling Type:

Soil

JHHC SWMF NM-02-0021

Sampling Condition:

Cool & Intact

Project Name: 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	Analyze	d 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 %	% 89.4-12	6					_	
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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: I-Chlorooctane	91.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	113 %	63.6-15	4						

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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: 12 B (1') (H300659-27)

BTEX 8021B	mg/	/kg	Analyze	d 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 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0	90					
Surrogate: 1-Chlorooctadecane	115 9	% 63.6-15							

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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: 12B (3') (H300659-28)

BTEX 8021B	mg/	kg	Analyze	d 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 %	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0						20
Surrogate: 1-Chlorooctadecane									

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Fax To:

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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: 12A-1 (1') (H300659-29)

BTEX 8021B	mg/	kg	Analyze	d 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 ⁷	6.24	104	6.00	1.06	
Total BTEX	<0.300	0.300	03/22/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 %	6 89.4-12	6					-	
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW				<u> </u>	
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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: I-Chlorooctane	88.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 %	63.6-15	4						

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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: 12 A - 1 (3') (H300659-30)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	85	% 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 %	% 89.4-12	6			, , , , , , , , , , , , , , , , , , , ,			
Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0						K-1
Surrogate: 1-Chlorooctadecane	112 %	63.6-15	4						

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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: 12 C (1') (H300659-31)

BTEX 8021B	mg/	kg	Analyze	d 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 %	6 89.4-126	s	V-54-01					
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	% 65.2-140)						
Surrogate: 1-Chlorooctadecane	107 %	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:

DTEV 00310

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	Analyze	d 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	103 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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: I-Chlorooctane	81.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104 9	63.6-15	4						

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Celey & Keene

Celey D. Keene, Lab Director/Quality Manager

Page 33 of 37



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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ANALYSIS REQUEST Analysis Management Facility (NM-02-0021) Analysis Management Facility (NM-02
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CHANN-OF-CUSTODY AND ANALYSIS REQUEST CHANN-OF-CUSTODY ANALYSIS REQUEST CHAN			<u> </u>		7	_		_	,			_		_			-	4-6		-	-		-						-
Charles Cardinal Laboratories, Inc. Charles Cardinal Laboratories, Inc. Charles Cardinal Laboratories, Inc. Charles Cardinal Laboratories, Inc. Charles Cardinal Ca		Sampler -	Delivered By:		Relinquished by	Y Illian	Relinquished by	20	9	18	7	16	15	14	2	12	-1	LAB USE ONLY		T24S, R36	John H. He	\sim	PO Box 91	Ciyii	Project Manager:	Company Name John H. He	Tel (575) 3 Fax (575) 3	101 East Marland Mexico 8	
ANALYSIS REQUEST Chairman Ch	•	- Bus -	(Circle One)			Chy !	Date 3	11B (3')	11B (1')		11A (1')		10C-1 (1')	10C (3')	10C (1')	10B-1 (3')	10B-1 (1')	FIELD CC		-	endrix Corporat		0, Eunice NM 8	treet, City, Zip)		endrix Corporat	93-2326 93-2476	- Hobbs, New)8240	
ANALYSIS REQUEST THE Company Name Company Real Carron Haynes Real Soil Sunday Name County Name Count			S				<u> </u>)DE		NW/4 & W	ion	5) 394-2653	38231			ion	6	<u>ر</u>	
ANALYSIS REQUEST THE Company Name Company Real Carron Haynes Real Soil Sunday Name County Name Count		7. 1.6 ×	Ample C	B	egeive		eceive	ရ	ဂ	ଜ	ဂ	G	С	ဂ	C.	G	ဂ	(G)rab or (C)omp		//2 SV			L				2	3	l
Company Hendrix Corporation For Box 3040, Midland TX 79702-3040 Box 3040, Midland TX 79702-3040 HCL HCL HNO Sampler Manie Gil Van Deventer County NM FRESERVATINE SAMPLING HNO NAHSO HNO NAHSO HNO NAHSO NAHSO NAHSO NAHSO HNO NAHSO NAHSIS REQUEST ANALYSIS R			ondition	6			d by:		_	_		1	1	-4	_	1	-				JHH	432)		ddress	roject r	John 7		Ž.	
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Page 3 of 3



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.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celegit Keine

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

22-Nov-13 15:07



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

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

PLEASE NOTE: Liability and Damages. Cardinal's faibility and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cientinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by Client, its subsidialines, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg L. Keene



JOHN H. HENDRIX CORPORATION P. O. BOX 3040 MIDLAND TX, 79702		Project Number: Project Manager:	JHHC SWMF NM-02-0021 NOT GIVEN CAROLYN DORAN HAYNES (575) 394-2653	Reported: 22-Nov-13 15:0	
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	

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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

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	20.0		16.0	mg/kg	4	3111502	AP	15-Nov-13	4500-CI-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)			107 %	89.4-	126	3110804	MS	12-Nov-13	8021B	
Detroleum 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	
Surrogate: 1-Chlorooctadecane			91.8%	63.6-	154	3]10706	MS	08-Nov-13	80]5B	

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22-Nov-13 15:07



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

1 A (3') H302718-02 (Soil)

Analyte	Result	MDL Reporting	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	al Laborat	ories					
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	ĺ	3101608	AP	18-Nov-13	310.1	
Chloride	430	16.0	mg/kg	4	3111502	AP	15-Nov-13	4500-CI - 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	A 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 FII	0								
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 Anal	ytical Lab	oratories					
General Chemistry									
% Dry Solids	90.8		%	i	B311113	JGS	12-Nov-13	EPA 160.3	

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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

1 A (3') H302718-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		(Green Anal	ytical Labo	oratories					
Total Metals by ICP				<u>— </u>						
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										
<i>c</i> senic	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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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') H302718-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	ND		16.0	mg/kg	4	3111502	AP	15-Nov-13	4500-C1-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	

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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

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborato	ories					
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-C1-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 EP.	A 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	
.hylbenzene*	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 FII	D									
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-Chlorooctadecane			91.4 %	63.6-	154	3110706	MS	08-Nov-13	8015B	
		Gr	een Analy	ytical Labo	oratories					
General Chemistry			·							
% Dry Solids	92.9			%	1	B311113	JGS	12-Nov-13	EPA160.3	

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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

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		(Green Anal	ytical Lab	oratories					
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	1
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 ⁹	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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22-Nov-13 15:07



Analytical Results For:

JOHN H. HENDRIX CORPORATION

P. O. BOX 3040 MIDLAND TX, 79702

Surrogate: 1-Chlorooctane

Surrogate: I-Chlorooctadecane

Project: JHHC SWMF NM-02-0021

Project Number: NOT GIVEN

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

1 B - 1 (1')

H302718-05 (Soil)

Reporting Limit Analyte Result MDL Units Dilution Batch Analyst Analyzed Method Notes **Cardinal Laboratories Inorganic Compounds** 3111502 4500-C1-B Chloride 68.0 16.0 mg/kg ΑP 15-Nov-13 Volatile Organic Compounds by EPA Method 8021 50 3110804 MS 12-Nov-13 8021B Benzene* ND 0.050 mg/kg Toluene* ND 0.050 mg/kg 50 3110804 MS 12-Nov-13 8021B ND 50 3110804 MS 12-Nov-13 8021B Ethylbenzene* 0.050 mg/kg ND 0.150 mg/kg 50 3110804 MS12-Nov-13 8021B Total Xylenes* 3110804 12-Nov-13 8021B 50 MS ND 0.300 mg/kg **Total BTEX** 3110804 8021B Surrogate: 4-Bromofluorobenzene (PID) 106 % 89.4-126 MS 12-Nov-13 Detroleum Hydrocarbons by GC FID ND 3110706 08-Nov-13 10.0 1 MS 8015B 3O C6-C10 mg/kg DRO >C10-C28 3110706 8015B ND 10.0 MS 08-Nov-13

65.2-140

63.6-154

104 %

108 %

3110706

3110706

MS

MS

08-Nov-13

08-Nov-13

8015B

8015B

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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

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

Reporting Limit MDL Analyte Result Units Dilution Batch Analyst Analyzed Method Notes Cardinal Laboratories **Inorganic Compounds** 3101608 ΑP 310.1 Alkalinity, Bicarbonate 210 5.00 mg/kg 1 18-Nov-13 0.00 1 3101608 AP 310.1 Alkalinity, Carbonate 9.60 mg/kg 18-Nov-13 3111502 AP 4500-CI-B 24.0 mg/kg Chloride 16.0 15-Nov-13 3111802 Conductivity 2410 1.00 uS/cm AP 18-Nov-13 120.1 pH* 8.94 0.100 pH Units 3111804 AP 15-Nov-13 9045 Sulfate ND 500 mg/kg 50 3112202 ΑP 22-Nov-13 375 4 4.00 3101608 ΑP 310.1 Alkalinity, Total* 220 mg/kg 18-Nov-13 Volatile Organic Compounds by EPA Method 8021 3110804 Benzene* ND 0.050 mg/kg 50 MS 12-Nov-13 8021B ND 0.050 50 3110804 MS 12-Nov-13 8021B Toluene* mg/kg Ethylbenzene* ND 0.050 mg/kg 50 3110804 MS 12-Nov-13 8021B 50 3110804 MS 12-Nov-13 8021B Total Xylenes* ND 0.150 mg/kg 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

Green	Analytical	Laboratories

mg/kg

mg/kg

65.2-140

63.6-154

3110706

3110706

3110706

3110706

MS

MS

MS

MS

1

08-Nov-13

08-Nov-13

08-Nov-13

08-Nov-13

8015B

8015B

8015B

8015R

General Chemistry								
% Dry Solids	98.0	%	1	B311113	JGS	12-Nov-13	EPA160.3	

10.0

10.0

105 %

110 %

Cardinal Laboratories

Petroleum Hydrocarbons by GC FID

GRO C6-C10

DRO >C10-C28

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

ND

ND

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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

-2653

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		C	Green Anal	ytical Labo	oratories					
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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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
			Cardina	l Laborat	tories			Ş		
Inorganic Compounds										
Chloride	ND		16.0	mg/kg	4	3111502	AP	15-Nov-13	4500-CI-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	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	

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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

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
-			Cardina	il Laborate	ories					
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-C1-B	
Conductivity	307		1.00	uS/cm	1	3111802	AP	18-Nov-13	120.1	
рН*	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	4 Method 8021									
Benzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
~oluene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
hylbenzene*	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 FII)									
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	
		C	Green Anal	ytical Labo	oratories					
General Chemistry										
% Dry Solids	95.0			%	1	B311113	JGS	12-Nov-13	EPA160.3	

General Chemistry								
% Dry Solids	95.0	%	1	B311113	JGS	12-Nov-13	EPA160.3	

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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

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		(Green Anal	ytical Labo	ratories					
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	1090	B311109	JGS	13-Nov-13	6020 A	
Total Mercury by CVAA								J		
Mercury	0.0130	0.0107	0.104	mg/kg dry	495	B311126	JGS	14-Nov-13	EPA7471	1

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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

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories		•			
Inorganic Compounds										
Chloride	216		16.0	mg/kg	4	3111502	AP	15-Nov-13	4500-C1-B	
Volatile Organic Compounds by EP.	A 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 FI	D									S-06
30 C6-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	
Surrogate: 1-Chlorooctadecane			340 %	63.6	-154	3110706	MS	08-Nov-13	8015B	

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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

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

Analyte	Result	Reporting MDL Limit	Units	Diluțion	Batch	Analyst	Analyzed	Method	Notes
		Cardi	ıal Laborat	ories			9		
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-CI-B	
Conductivity	1390	1.00	uS/cm	1	3111802	AP	18-Nov-13	120.1	
рН*	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 EP.	A 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 FII	D								
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 Ana	ilytical Lab	oratories					
General Chemistry									
% Dry Solids	96.7		%	1	B311113	JGS	12-Nov-13	EPA160.3	

% Dry Solids 96.7

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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

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		(Green Anal	ytical Labo	oratories					
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										
rsenic	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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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
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	110		16.0	mg/kg	4	3111502	AP	15-Nov-13 s	4500-C1-B	
Volatile Organic Compounds by EPA M	ethod 8021									
Benzene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	<u> </u>
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	-									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	
Surrogate: 1-Chlorooctadecane			186 %	63.6	-154	3110706	MS	08-Nov-13	8015B	

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Reported: 22-Nov-13 15:07



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

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

Analyte	Result	MDL Re	porting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		C	ardina	l Laborato	ories					
Inorganic Compounds					·					
Alkalinity, Bicarbonate	137		5.00	mg/kg	1	3101608	ΑP	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-CI-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	
™oluene*	ND		0.050	mg/kg	50	3110804	MS	12-Nov-13	8021B	
.hylbenzene*	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 FIL)									
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		8	37.3 %	65.2-	140	3110706	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctadecane		9	97.5 %	63.6-	154	3110706	MS	08-Nov-13	8015B	
		Gree	n Analy	ytical Labo	ratories					
General Chemistry				1						
% Dry Solids	94.3			%	1	B311113	JGS	12-Nov-13	EPA160.3	

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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

10 B - 1 (3')

H302718-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		(Green Anal	ytical Labo	oratories					
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	1090	B311109	JGS	13-Nov-13	6020 A	
Chromium	4.58	0.0956	1.00	mg/kg dry	1000	B311109	JGS	13-Nov-13 a	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	

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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

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	44.0		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-C1-B	
Volatile Organic Compounds by EP.	A 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 FI	0									S-06
3O C6-C10	ND		50.0	mg/kg	5	3110706	MS	08-Nov-13	8015B	<u></u>
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	
Surrogate: 1-Chlorooctadecane			159 %	63.6	-154	3110706	MS	08-Nov-13	8015B	

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P. O. BOX 3040 MIDLAND TX, 79702 Project: JHHC SWMF NM-02-0021

Reported: 22-Nov-13 15:07

Project Number: NOT GIVEN

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed ,	Method	Notes
			Cardina	l Laborat	ories					
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-C1-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 EP.	A Method 8021	<u> </u>								
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 FI	D									
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	
		C	Green Anal	ytical Lab	oratories					
General Chemistry										
0/ Day Calldo	02.7			0/0	1	B311113	IGS	12. Nov. 13	FPA 160 3	

General Chemistry								
% Dry Solids	92.7	%	1	B311113	JGS	12-Nov-13	EPA 160.3	

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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

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		(Green Anal	ytical Labo	oratories					
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										
rsenic	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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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
Cardinal Laboratories										
Inorganic Compounds										
Chloride	ND		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-CI-B	
Volatile Organic Compounds by EPA	Method 8021				f		_			
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	

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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

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
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-C1-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 EP.	A Method 8021	<u> </u>								
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	
hylbenzene*	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 FI	D									
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	
•		G	reen Anal	ytical Lab	oratories					
General Chemistry									· - · - · · · · · · · · · · · · · · · ·	
% Dry Solids	91.3			%	1	B311113	JGS	12-Nov-13	EPA160.3	

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JOHN H. HENDRIX CORPORATION

P. O. BOX 3040 MIDLAND TX, 79702 Project: JHHC SWMF NM-02-0021

Project: JHHC SWMF NM-02-002
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)

Апаlyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Anal	ytical Labo	oratories					
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 ⁸	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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JOHN H. HENDRIX CORPORATION

P.O. BOX 3040 MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021

Reported: 22-Nov-13 15:07

Project Number: NOT GIVEN

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	ND		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500 - C1-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										
tO C6-C10	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
υRO >C10-C28	17.4		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
Surrogate: I-Chlorooctane			75.9 %	65.2	-140	3110801	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctadecane			88.6 %	63.6	-154	3110801	MS	08-Nov-13	8015B	

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JOHN H. HENDRIX CORPORATION

Project: JHHC SWMF NM-02-0021

Reported:

P. O. BOX 3040

Project Number: NOT GIVEN

22-Nov-13 15:07

MIDLAND TX, 79702

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
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	3 11 15 03	AP	15-Nov-13	4500-C1-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 EP	A 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 FII)									
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-		3110801	MS	08-Nov-13 s	8015B	
		(Green Anal	ytical Lab	oratories					
Canaral Chamistry										

General Chemistry							
% Dry Solids	92.0	%	1	B311113	JGS	12-Nov-13	EPA 160.3

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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 Anal	ytical Lab	oratories		<u>-</u>			
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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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
			Cardina	l Laborat	ories					
Inorganic Compounds					,					
Chloride	ND		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B	
Volatile Organic Compounds by EP.	A Method 802									
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 FI	D									
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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P. O. BOX 3040 MIDLAND TX, 79702 Project: JHHC SWMF NM-02-0021

Project Number: NOT GIVEN

Project Manager: CAROLYN DORAN HAYNES

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Reported: 22-Nov-13 15:07

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
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-CI-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 EP	A Method 8021	L								
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	
aylbenzene*	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 FII	D									
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 Anal	ytical Lab	oratories					
General Chemistry										

% Dry Solids 93.4 % 1

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EPA160.3

12-Nov-13

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22-Nov-13 15:07



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

11 D (21)

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		(Green Anal	ytical Labo	oratories					
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	JG\$	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					1					
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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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
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	52.0		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-C1 - B	
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										
RO 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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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
			Cardina	l Laborat	ories					
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-CI-B	
Conductivity	809		1.00	uS/cm	1	3111803	AP	18-Nov-13	120.1	
рН*	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	5Ó	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 FII)									
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 Anal	ytical Lab	oratories					
General Chemistry										

General Chemistry							
% Dry Solids	94.4	%	1	B311113	JGS	12-Nov-13	EPA160.3

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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

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
	· · · · · · ·	(Green Anal	ytical Labo	oratories					
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										
rsenic	1.61	0.138	0.500	mg/kg dry	1000	B311109	JGS	13-Nov-13	6020 A	•
Barium c	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					<u> </u>			-		
Mercury	0.0184	0.0108	0.105	mg/kg dry	495	B311126	JGS	14-Nov-13	EPA7471	J

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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 C (1') H302718-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	ND		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B	
Volatile Organic Compounds by EPA N	1ethod 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	11.1		10.0	mg/kg	1	3110801	MS	08-Nov-13	8015B	
Surrogaie: 1-Chlorooctane			77.3 %	65.2	-140	3110801	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctadecane			87.5 %	63.6	-154	3110801	MS	08-Nov-13	8015B	

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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

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

Analyte	Result	MDL Rep	orting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		C	ardina	l Laborate	ries					
Inorganic Compounds c										
Alkalinity, Bicarbonate	10.0	,	5.00	mg/kg	1	3101608	ΑP	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-C1-B	
Conductivity	233		1.00	uS/cm	1	3111803	ΑP	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 EP	A Method 802	1								
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	
ıylbenzene*	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)		1	05 %	89.4-	126	3111001	MS	11-Nov-13	8021B	
Petroleum Hydrocarbons by GC FII	<u> </u>									
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		8	1.5 %	65.2-	140	3110801	MS	08-Nov-13	8015B	
Surrogate: 1-Chlorooctadecane		9	1.7 %	63.6-	154	3110801	MS	08-Nov-13	8015B	
		Cwaa	. 4	utical I abo						
·		Green	Analy	tical Labo	ratories					
General Chemistry										
% Dry Solids	93,9			%	1	B311113	JGS	12-Nov-13	EPA160.3	

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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

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		(Green Anal	ytical Labo	oratories					
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	1

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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

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	ND		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-C1-B	
Volatile Organic Compounds by EPA Me	thod 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 (P1D)			106 %	89.4-	-126	3111001	MS	11-Nov-13	8021B	
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	
Surrogate: 1-Chlorooctadecane			109 %	63.6-	-154	3110801	MS	08-Nov-13	8015B	

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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 (3') H302718-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
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-CI-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 EP.	A Method 8021				f					
Benzene*	ND		0.050	mg/kg	50	3111001	MS	11-Nov-13	8021B	
Foluene*	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 FII	D									
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 Anal	ytical Lab	oratories					

General Chemistry								
% Dry Solids	94.6	%	1	B311113	JGS	12-Nov-13	EPA 160.3	

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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 (3') H302718-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		(Green Anal	ytical Labo	oratories					-
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										
rsenic	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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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
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	ND		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B	
Volatile Organic Compounds by EPA M	lethod 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 з	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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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

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
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-C1-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	L								
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	
.hylbenzene*	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	
Surrogate: 1-Chlorooctadecane		(98.6 % Green Anal			3110801	MS	08-Nov-13	80138	

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General Chemistry

% Dry Solids

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EPA160.3

12-Nov-13

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Celeg E. Keene

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
		(Green Anal	ytical Labo	oratories					
Total Metals by ICP										
Aluminum	10600	0.149	5.00	mg/kg dry	100	B311108	JGS	12-Nov-13 a	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			v							
Mercury	0.0136	0.0108	0.105	mg/kg dry	476	B311126	JGS	14-Nov-13	EPA7471	J

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22-Nov-13 15:07



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

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
ø			Cardina	l Laborat	ories					
Inorganic Compounds			,							
Chloride	ND		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-C1-B	
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	
Detroleum Hydrocarbons by GC FID										
дО 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			79.4 %	65.2	-140	3110801	MS	08-Nov-13	8015B	
Surrogate: I-Chlorooctadecane			89.8 %	63.6	-154	3110801	MS	08-Nov-13	8015B	

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22-Nov-13 15:07



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

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

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	ories					
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-C1-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	ΑP	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 EP	A Method 802	1							
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	
Etbylbenzene*	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 FII	0								
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 Ana	lytical Lab	oratories					
General Chemistry									
% Dry Solids	93.5		%	i	B311113	JGS	12-Nov-13	EPA 160.3	

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JOHN H. HENDRIX CORPORATION

Project: JHHC SWMF NM-02-0021

Reported:

P. O. BOX 3040

Project Number: NOT GIVEN

22-Nov-13 15:07

MIDLAND TX, 79702

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		C	Green Anal	ytical Lab	ratories					
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										
<i>r</i> senic	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	JG\$	13-Nov-13	6020 A	
Selenium	ND	0.411	, 1.00	mg/kg dry	1000	B311109	JG S	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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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)

			11302	10-31 (50	,,,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride	ND		16.0	mg/kg	4	3111503	AP	15-Nov-13	4500-Cl-B	
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	
Petroleum Hydrocarbons by GC FII)									
GRO C6-C10	ND		10.0	mg/kg	1	3110801	MS	08-Nov-13 ø	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	
Surrogate: 1-Chlorooctadecane			101 %	63.6	-154	3110801	MS	08-Nov-13	8015B	

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Reported:

22-Nov-13 15:07



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

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

Алаlyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	il Laborato	ories					
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-CI-B	
Conductivity	67.9		1.00	uS/cm	1	3111803	ΑP	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	ΑP	22-Nov-13	375.4	
Alkalinity, Total*	44.0		4.00	mg/kg	1	3112110	ΑP	20-Nov-13	310.1	
Volatile Organic Compounds by EPA	Method 8021	<u> </u>								
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	
hylbenzene*	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	
		C	Green Anal	vtical Lab	oratories					
General Chemistry		`	,	,						
% Dry Solids	92.7			%	1	B311113	JGS	12-Nov-13	EPA160.3	

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Reported:

22-Nov-13 15:07



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

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		C	Green Anal	ytical Labo	ratories					
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	JG\$	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	JG\$	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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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

Snike

Fax To: (575) 394-2653

Reported: 22-Nov-13 15:07

RPD

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3101608 - General Prep - Wet Ch	em	·· ·								
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		and the second s	and the same of	
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	
'kalinity, Bicarbonate	136	5.00	mg/kg				80-120	2.99	20	
kalinity, 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	l			
Chloride	ND	16.0	mg/kg							
LCS (3111502-BS1)				Prepared &	k Analyzed:	: 15-Nov-13	1			
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (3111502-BSD1)				Prepared &	k Analyzed:	: 15-Nov-13	·			
Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20	
Batch 3111503 - 1:4 DI Water										
Blank (3111503-BLK1)				Prepared &	k Analyzed	: : 15-Nov-13	3			
Chloride	ND	16.0	mg/kg					.,		

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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	Mata
Maryte	Result	Limit	Units	Level	Result	70KEC	Limits	KPD .	Limit	Notes
Batch 3111503 - 1:4 DI Water										
LCS (3111503-BS1)				Prepared &	Analyzed:	15-Nov-13				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (3111503-BSD1)				Prepared &	Analyzed:	15-Nov-13				
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	
Batch 3111802 - General Prep - Wet Chem										
LCS (3111802-BS1)				Prepared &	Analyzed:	18-Nov-13				
Conductivity	473		uS/cm	500		94.6	80-120			
Duplicate (3111802-DUP1)	Sou	rce: H302718	3-02	Prepared &	Analyzed:	18-Nov-13				
Conductivity	2020	1.00	uS/cm		2170			7.31	20	
Batch 3111803 - General Prep - Wet Chem										
LCS (3111803-BS1)				Prepared &	Analyzed:	18-Nov-13				
Conductivity	474		uS/cm	500		94.8	80-120			
Duplicate (3111803-DUP1)	Sou	rce: H302718	-20	Prepared &	Analyzed:	18-Nov-13				
Conductivity	292	1.00	uS/cm		292			0.00	20	
Batch 3111804 - NO PREP										
LCS (3111804-BS1)				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

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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

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3111804 - NO PREP										
Duplicate (3111804-DUP1)	Sou	rce: H302718	-02	Prepared &	Analyzed:	15-Nov-13				
pH	6.84	0.100	pH Units		6.75			1.32	20	
Batch 3111805 - NO PREP										
LCS (3111805-BS1)				Prepared &	Analyzed:	15-Nov-13				
рН	7.11		pH Units	7.00		102	90-110			
Duplicate (3111805-DUP1)	Sou	rce: H302718	-22	Prepared &	Analyzed:	15-Nov-13				
рН	7.97	0.100	pH Units		7.95			0.251	20	
Batch 3112110 - General Prep - Wet Chem										
Rlank (3112110-BLK1)				Prepared &	z Analyzed:	21-Nov-13		 		
xalinity, Carbonate	ND	0.00	mg/kg							
Alkalinity, Bicarbonate Alkalinity, Total	ND ND	5.00 4.00	mg/kg							
minammy, 19tal	מא	4.00	mg/kg							
LCS (3112110-BS1)				Prepared 8	k 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		100	80-120			
LCS Dup (3112110-BSD1)				Prepared &	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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Inorganic Compounds - Quality Control

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3112202 - General Prep - Wet Chem										
Blank (3112202-BLK1)				Prepared: 2	21-Nov-13	Analyzed: 2	2-Nov-13			
Sulfate	ND	10.0	mg/kg							
LCS (3112202-BS1)				Prepared: 2	21-Nov-13	Analyzed: 2	2-Nov-13			
Sulfate	20.2	10.0	mg/kg	20.0		101	80-120			
LCS Dup (3112202-BSD1)				Prepared: 2	21-Nov-13	Analyzed: 2	2-Nov-13			
Sulfate	20.0	10.0	mg/kg	20.0 /		100	80-120	0.796	20	
								đ		

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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3110804 - Volatiles									- <u></u>	
Blank (3110804-BLK1)				Prepared: (8-Nov-13	Analyzed: 1	2-Nov-13			
Benzene	ND	0.050	mg/kg							
l'olu ene	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			
LCS (3110804-BS1)				Prepared: (8-Nov-13	Analyzed: 1	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			
tal 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			
LCS Dup (3110804-BSD1)				Prepared: (08-Nov-13	Analyzed: 1	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			
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	nıg/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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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level /	Result	%REC	Limits	RPD	Limit	Notes
Batch 3111001 - Volatiles								0		
LCS (3111001-BS1)				Prepared: 1	0-Nov-13 A	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-BSD1)				Prepared: 1	0-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 &	Analyzed:	13-Nov-1	3			
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		nıg/kg	0.0500,		107	89.4-126			
LCS (3111301-BS1)				Prepared: 1	3-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	nıg/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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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
Batch 3111301 - Volatiles										
LCS Dup (3111301-BSD1)				Prepared: 1	3-Nov-13 A	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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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	Source	%PEC	%REC	BBD	RPD	Mar
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3110706 - General Prep - Organics										
Blank (3110706-BLK1)	·			Prepared:	7-Nov-13	Analyzed: (8-Nov-13			
GRO C6-C10	ND	10.0	mg/kg					- 0		
DRO >C10-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	41.0		mg/kg	50.0		81.9	65.2-140			
Surrogaie: 1-Chlorooctadecane	41.3		mg/kg	50.0		82.5	63.6-154			
LCS (3110706-BS1)				Prepared: (7-Nov-13	Analyzed: (8-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: (7-Nov-13	Analyzed: (8-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			
Surrogaie: 1-Chlorooctadecane	56.8		mg/kg	50.0		114	63.6-154			
Batch 3110801 - General Prep - Organics										
Blank (3110801-BLK1)				Prepared &	Analyzed:	08-Nov-13	3			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	52,7		nig/kg	50.0		105	65.2-140			
Surrogate: 1-Chlorooctadecane	56.5		mg/kg	50.0		113	63.6-154			
LCS (3110801-BS1)				Prepared &	Analyzed:	08-Nov-13	3			
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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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
Batch 3110801 - General Prep - Organics										
LCS Dup (3110801-BSD1)		,		Prepared &	k Analyzed:	08-Nov-13	1			
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		10 i	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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Celey L. Keene

%REC



Analytical Results For:

JOHN H. HENDRIX CORPORATION

P. O. BOX 3040 MIDLAND TX, 79702 Project: JHHC SWMF NM-02-0021

Spike

Source

Project Number: NOT GIVEN

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported:

22-Nov-13 15:07

RPD

Total Metals by ICP - Quality Control

Green Analytical Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B311108 - EPA 3050										
Blank (B311108-BLK1)				Prepared &	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							
Zinc	0.005	0.050	mg/kg dry							
Calcium	0.015	1.00	mg/kg dry	+						
Copper	ND	0.020	mg/kg dry					ø		
ron	0.017	0.050	mg/kg dry							
Manganese	0.0006	0.005	mg/kg dry							
odium	ND	1.00	mg/kg dry							
CS (B311108-BS1)				Prepared &	Analyzed:	12-Nov-13				
odium	6.07	1.00	mg/kg dry	6.48		93.6	85-115			
alcium	3.92	1.00	mg/kg dry	4.00		97.9	85-115			
on	3.95	0.050	mg/kg dry	4.00		98.7	85-115			
luminum	3.97	0.050	mg/kg dry	4.00		99.2	85-115			
inc	1.90	0.050	mg/kg dry	2.00		94.9	85-115			
otassium	7.79	1.00	mg/kg dry	8.00		97.4	85-115			
fagnesium	19.9	1.00	mg/kg dry	20.0		99.5	85-115			
opper	3.84	0.020	mg/kg dry	4.00		95.9	85-115			
langanese	1.91	0.005	mg/kg dry	2.00		95.7	85-115			
.CS Dup (B311108-BSD1)				Prepared &	Analyzed	12-Nov-13				
odium	6.04	1.00	mg/kg dry	6.48		93.3	85-115	0.387	20	
langanese	1.91	0.005	mg/kg dry	2.00		95.4	85-115	0.307	20	
luminum	3.96	0.050	mg/kg dry	4.00		99.0	85-115	0.106	20	
on	3.96	0.050	mg/kg dry	4.00		99.1	85-115	0.328	20	
alcium	3.90	1,00	mg/kg dry	4.00		97.5	85-115	0.415	20	
opper	3.83	0.020	mg/kg dry	4.00		95.8	85-115	0.196	20	
otassium	7.47	1.00	mg/kg dry	8.00		93.4	85-115	4.17	20	
lagnesium	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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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
Batch B311108 - EPA 3050 °		,								
Matrix Spike (B311108-MS1)	Sou	rce: H302718	3-06	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			М
Potassium	3000	100	mg/kg dry	800	1080	239	70-130			М
Calcium	996	100	mg/kg dry	400	571	106	70-130			
lron	6390	5.00	mg/kg dry	400	4830	388	70-130			М
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			
Соррег	387	2.00	mg/kg dry	400	1.76	96.4	70-130			
Matrix Spike (B311108-MS2)	Sou	rce: H302718	3-20	Prepared &	k Analyzed:	12-Nov-13	1			
`(agnesium	3870	100	mg/kg dry	2000	1170	135	70-130			M
lcium	1800	100	mg/kg dry	400	1340	115	70-130			
Iron	10100	5.00	mg/kg dry	400	7720	603	70-130			М
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			М
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			М
Matrix Spike Dup (B311108-MSD1)	Sou	rce: H302718	3-06	Prepared &	k Analyzed:	12-Nov-13	,			
Calcium	975	100	mg/kg dry	400	571	101	70-130	2.17	20	
Iron o	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	M
Potassium	2790	100	mg/kg dry	800	1080	213	70-130	7.17	20	М
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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Celeg D. Keene



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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B311108 - EPA 3050									····	
Matrix Spike Dup (B311108-MSD2)	Sour	ce: H302718	3-20	Prepared &	Analyzed:	12-Nov-13	3			
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	
Zine	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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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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B311109 - EPA 3050M										
Blank (B311109-BLK1)				Prepared: 1	2-Nov-13 A	Analyzed: 1	3-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: 1	2-Nov-13 A	Analyzed: 1	3-Nov-13			
Cadmium ^p	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			
ad	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: 1	2-Nov-13	Analyzed: 1	3-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)	Sou	rce: H302718	i-04	Prepared: 1	2-Nov-13	Analyzed: 1	3-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			M

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Celeg E. Keene

^{*=}Accredited Analyte



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

		Danarti		Spike	Source		%REC		RPD	
Analyte	Result	Reporting Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
	- 4									
Batch B311109 - EPA 3050M										
Matrix Spike (B311109-MS1)	Sou	rce: H302718	3-04	Prepared:	12-Nov-13	Analyzed: 1	3-Nov-13			
Lead	10.4	0.500	mg/kg dry	5.00	5.52	97.9	70-130			
Matrix Spike (B311109-MS2)	Sou	rce: H302718	3-22	Prepared:	12-Nov-13	Analyzed: 1	13-Nov-13			
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			
Matrix Spike Dup (B311109-MSD1)	Sou	rce: H302718	3-04	Prepared:	12-Nov-13	Analyzed:	13-Nov-13			
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	M
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	
Matrix Spike Dup (B311109-MSD2)	Sou	rce: H302718	3-22	Prepared:	12-Nov-13	Analyzed:	13-Nov-13			
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	M
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

Page 65 of 70



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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B311126 - EPA 7471								J		
Blank (B311126-BLK1)				Prepared &	Analyzed:	14-Nov-13				
Mercury	ND	0.0002	mg/kg wet							
LCS (B311126-BS1)				Prepared &	: Analyzed:	14-Nov-13				
Mercury	0.0020	0.0002	mg/kg wet	0.00200		102	85-115			
LCS Dup (B311126-BSD1)				Prepared &	: Analyzed:	14-Nov-13				
Mercury	0.0020	0.0002	mg/kg wet	0.00200		101	85-115	0.888	20	
Matrix Spike (B311126-MS1)	Sou	rce: 1311019-	-01	Prepared &	Analyzed:	14-Nov-13				
Mercury	1.25	0.120	mg/kg dry	1.21	ND	103	75-125			
Matrix Spike (B311126-MS2)	Sou	rce: H302718	3-12	Prepared &	Analyzed:	14-Nov-13				
`4ercury	1.10	0.106	mg/kg dry	1.06	0.0123	103	75-125			
Matrix Spike (B311126-MS3)	Sou	rce: H302718	3-32	Prepared &	Analyzed:	14-Nov-13				
Mercury	1.09	0.106	mg/kg dry	1.08	0.0145	100	75-125			
Matrix Spike Dup (B311126-MSD1)	Sou	rce: 1311019	-01	Prepared &	z Analyzed:	14-Nov-13				
Mercury	1.21	0.116	mg/kg dry	1.21	ND	99.7	75-125	2.91	200	
Matrix Spike Dup (B311126-MSD2)	Sou	rce: H302718	3-12	Prepared &	z Analyzed:	14-Nov-13				
Mercury	1.04	0.103	mg/kg dry	1.06	0.0123	97.2	75-125	5.43	200	
Matrix Spike Dup (B311126-MSD3)	Sou	rce: H302718	3-32	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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Celeg E. Keene



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.
М3	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 conentration. 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

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