NM2 - ___21

Minor Modification Request & Approval

Nov. 1, 2017

District Control of Co	(Manusconne)

State of New Mexico Energy, Minerals and Natural Resources Department

Susana Martinez Governor

Ken McQueen Cabinet Secretary

Matthias Sayer Deputy Cabinet Secretary David R. Catanach, Division Director Oil Conservation Division



November 1, 2017

Carolyn D. Haynes
John H. Hendrix Corporation
PO Box 3040
Midland, Texas 79720

Re: Request for Minor Modification of Surface Waste Management Permit NM2-021

John H. Hendrix Corporation

Permit NM2-021

Location: W/2NW/4 and W/2SW/4 of Section 15, Township 24 South, Range 36

East, NMPM, Lea County, New Mexico

Dear Ms. Haynes:

The Oil Conservation Division (OCD) has reviewed John H. Hendrix Corporation's (JHHC) email request, dated October 24, 2017 and emailed to OCD on October 25, 2017, for a minor modification to the existing permit (NM2-021) to stop the bi-weekly tilling in all active landfarm cells.

OCD hereby grants JHHC approval of the minor modification requests, with the following conditions:

- OCD approves JHHC's minor modification request to cease tilling in all active landfarm cells, based on the last two sampling events (Oct. 12, 2016 and Sept. 30, 2015) which demonstrate GRO/DRO combined fraction, Benzene, and BTEX concentrations were below the treatment zone closure standards of 19.15.36.15.F NMAC, as follows:
 - Benzene, as determined by EPA SW-846 Method 8021B or 8260B, shall not exceed 0.2 mg/kg;
 - Total BTEX, as determined by EPA SW-846 Method 8021B or 8260B, shall not exceed 50 mg/kg; and
 - GRO/DRO combined fractions, as determined by EPA SW-846 Method 8015M, shall not exceed 500 mg/kg;
- 2. JHHC shall comply with all other applicable requirements of the Oil and Gas Act (Chapter 70, Article 2 NMSA 1978), the existing permit NM2-021, the transitional provisions of 19.15.36.20 NMAC, and all conditions specified in this approval, including;

John H. Hendrix Corporation Permit NM2-021 November 1, 2017 Page 2 of 2

- O JHHC shall monitor the vadose zone (native soils) for total petroleum hydrocarbons (TPH) by Method 8015 extended range for GRO, DRO, and MRO individually and volatile aromatic organics (BTEX) quarterly by either Method 8021 or 8260; Chloride semi-annually by either Method 300.1 or SM4500B; and major cations/anions (Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, and Sulfate) and Water Quality Control Commission (WQCC) metals annually; and
- o JHHC shall continue to monitor the treatment zone (soils being remediated) semiannually for TPH and Chloride to demonstrate compliance with the transitional provision of 19.15.36.20.A NMAC.

Please be advised that approval of this request does not relieve JHHC of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve JHHC of its responsibility to comply with any other applicable governmental authority's rules and regulations.

If there are any questions regarding this matter, please do not hesitate to contact Brad Jones on my staff at (505) 476-3487 or <u>brad.a.jones@state.nm.us</u>.

Respectfully,

Jim Griswold

Environmental Bureau Chief

JG/baj

cc: OCD District I Office, Hobbs

Jones, Brad A., EMNRD

From:

L Peter Galusky Jr PE < lpg@terra.pro>

Sent:

Wednesday, October 25, 2017 10:34 AM Jones, Brad A., EMNRD

To: Cc:

Griswold, Jim, EMNRD; Carolyn Haynes; Adam Rankin; Gilbert J Van Deventer

Subject:

John H Hendrix Corp NM-02-0021 minor modification request

Attachments:

JHHC Form C-137A signed 102417.pdf; JHHC NM-02-0021 minor modification request

10252017 lpg.pdf

Mr. Jones,

Please find attached a request for a minor modification to John H Hendrix Corp's Centralized Surface Waste Management Facility Permit No. NM-02-021.

Thank you greatly for your consideration.

Sincerely,

Pete G.

L Peter Galusky, Jr PE TerraPro

Tel: 719.339.6791 E-mail: lpg@terra.pro

Web: terra.pro

L Peter Galusky, Jr PE TerraPro

Tel: 719.339.6791 E-mail: lpg@terra.pro

Web: terra.pro

		Jennesen,

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

Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 State of New Mexico

Form C-137A June 30, 2016

For State Use Only:

APPLICATION FOR MINOR MODIFICATION TO CENTRALIZED SURFACE WASTE MANAGEMENT FACILITY

John H Hendrix, Corporation Section 15, Township 24 South, Range 36 East Lea County, NM

Address: ... see location, below.

Contact Person: Carolyn Doran Haynes, Vice President John H Hendrix, Corp. Location: W/2 NW/4 W/2 SW/4 Section 15 Township 24 South Range 36 East

- 2. Provide permit number: NM-02-0021
- 3. Attach a description of the proposed minor modification(s) to the surface waste management facility.
- 4. If the Minor Modification involves changes to a treatment, remediation, or disposal method, attach engineering designs, certified by a registered professional engineer, including technical data on the design elements of each applicable treatment, remediation, and disposal method and detailed designs of surface impoundments.
- 5. If the Minor Modification will affect the closure and post-closure plan, attach an updated closure and post closure plan, including a responsible third-party contractor's cost estimate, sufficient to close the surface waste management facility in a manner that will protect fresh water, public health, and the environment (the closure and post closure plan shall comply with the requirements contained in 19.15.36.18 NMAC).
- If the Minor Modification will affect the contingency plan, attach an updated contingency plan that complies with the requirements of Subsection N of 19.15.36.13 NMAC and with NMSA 1978, Sections 12-12-1 through 12-12-30, as amended (the Emergency Management Act).
- 7. If the Minor Modification will affect the control of run-on or run-off water at the site, attach an updated plan to control runon water onto the site and run-off water from the site that complies with the requirements of Subsection M of 19.15.36.13 NMAC.
- 8. If the Minor Modification will affect the best management practice plan, attach a best management practice plan to ensure protection of fresh water, public health, and the environment.

9. The division may require additional information to demonstrate that the surface waste management facility's operation will not adversely impact fresh water, public health, or the environment and that the surface waste management facility will comply with division rules and orders.

10. CERTIFICATION

I hereby certify that the information submitted with this application is true, accurate, and complete to the best of my knowledge and belief.

Name: Carolyn Doran Haynes

Title: Vice President

Signature: Caroly Dora Hayner

Date: October 24th, 2017

E-mail Address: cdoranhaynes@jhhc.org

L Peter Galusky, Jr PE

20055 Laredo Ln Monument, CO 80132 | 719 339-6791 | lpg@terra.pro

October 25th, 2017

Mr. Brad Jones

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

Re: Centralized Surface Waste Management Facility NM-02-0021

Sec 15, T24S, R36E Lea County, New Mexico

Dear Mr. Jones:

I am writing on behalf of John H Hendrix Corp (JHHC) to request OCD approval of a minor modification to NM-02-0021 to discontinue twice monthly tillage of soils in their permitted waste management facility (Figures 1 and 2). See OCD Form-137A, attached. The facility has not received any soil material the past eight years (Table 1) and the measured, residual soil hydrocarbon and chloride concentrations are essentially stable and well below OCD limits (most being below laboratory detection limits) for treatment zone closure performance standards for the last three years (Table 2a-c, lab reports). See 19.15.36.15.F NMAC.

At this point it would be of substantially greater ecological and environmental benefit to cease tillage and to reestablish native vegetation so that the property may return to its natural state. Microbial activity would be greatly enhanced by the establishment of roots deep into the subsoil as this would facilitate the co-metabolism of the trace concentrations of residual hydrocarbons remaining and create a natural evapotranspiration barrier to mitigate the potential for downward migration of water through these cells towards the groundwater. Depth to groundwater is well over 100 feet below the base of the treatment zone.

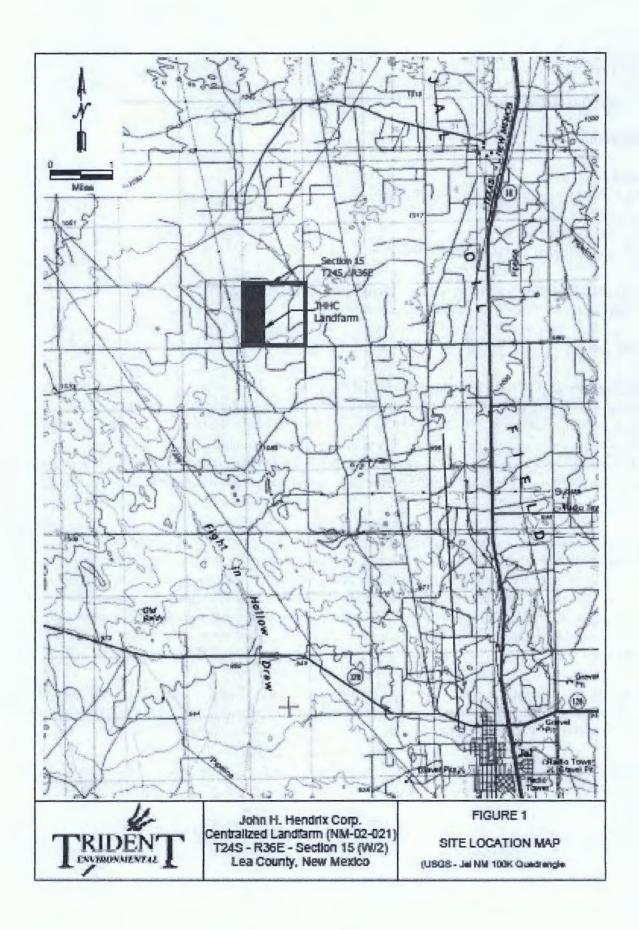
JHHC therefore respectfully requests that OCD grant this minor modification to discontinue tillage and to seed the facility with a native vegetation mix. Please contact either myself or Carolyn Haynes of JHHC at 432-684-6631 if you have any questions or wish to discuss this request. Thank you.

Sincerely,

L Peter Galusky, Jr. PE

NM Professional Environmental Engineer No. 22561

Attachments ... as noted, above



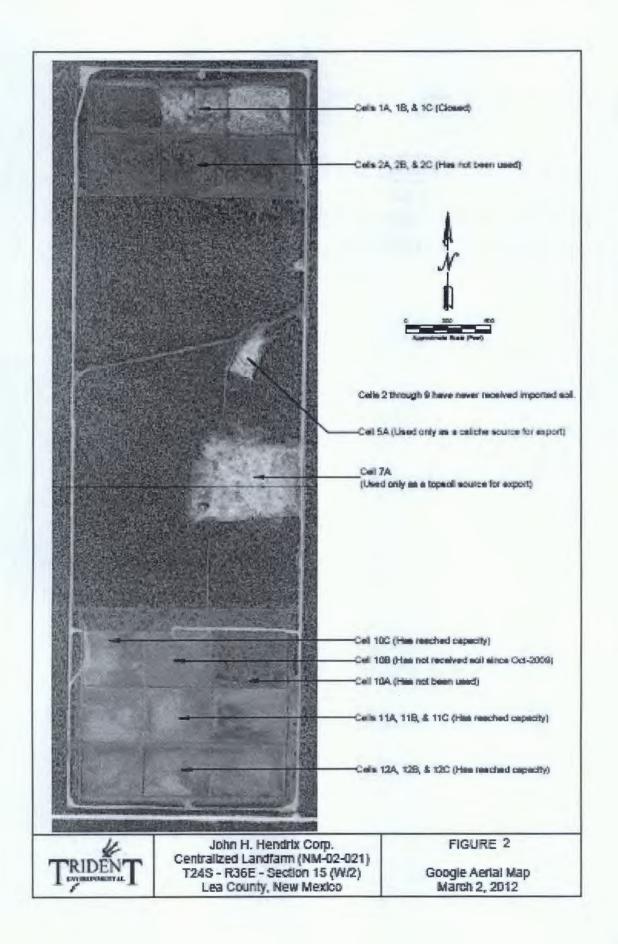


Table 1 – Transportation and placement of soil material: dates and volumes

	Transportation	on of Soils	Total
Cell	Began	Ended	Volume (yd³)
12	03/01/2005	12/12/2006	14,887
1	06/13/2006	02/20/2007	11,116
11	09/17/2007	05/30/2008	26,407
10	06/02/2008	10/22/2009	8,981

Total 61,391

Table 2a – 2016 soil sampling results

Cell no &	Cell no	ltr	Į.v.	Sample Date		Sample Zone	Sample ID (Depth)	Benzene (mg/kg ▼	Toluene (mg/kg =	Ethyl- benzene (mg/kg	,	BTEX (mg/kg	GRO C6- C10 (mg/kg	DRO >C10- C28 (mg/kg) *	C35	ТРН	Chloride
1A	1	Α	· · · · · · · · · · · · · · · · · · ·	10/12/2	2016	Treatment	1A (1')	<0.050	<0.050	Same and the same of the same		The state of the s	The state of the s			Section and the second and the second	3
1A	1	Α		10/12/2	2016	Treatment	1A-1 (1')	< 0.050	< 0.050	< 0.050	\$	\$ ~~~~~~~~	W-00-000-00-00-00-00-00-00-00-00-00-00-0	<10	<10	***************************************	for a succession of the second
1B	1	В	ATTOMORIAN KARLINANA	10/12/2	2016	Treatment	1B (1')	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10	<10		<20	8.00
1C	1	С	~~~	10/12/2	2016	Treatment	1C (1')	<0.500	<0.050	<0.50	<0.150	< 0.300	<10	<10	<10	<30	12.00
10B	10	В		10/12/2	2016	Treatment	10B (1')	< 0.050	<0.050	<0.050	<0.150	< 0.300	<10	<10	<10	<30	<4
10B	10	В		10/12/2	2016	Treatment	10B-1 (1')	< 0.050	<0.050	<0.050	<0.150	< 0.300	<10	<10	<10	<30	<4
10C	10	C		10/12/2	2016	Treatment	10C (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	12.00
10C	10	C		10/12/2	2016	Treatment	10C-1 (1')	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10	<10	<10	<30	8.00
11A	11	Α	***********	10/12/2	2016	Treatment	11A (1')	< 0.050	<0.050	<0.050	<0.150	< 0.300	<10	<10	<10	<30	12.00
11A	11	Α		10/12/2	2016	Treatment	11A-1(1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	12.00
11B	11	В	w/-/- 1110///	10/12/2	2016	Treatment	11B (1')	<0.050	<0.050	<0.050	<0.150	< 0.300	<10	<10	<10	<30	8.00
11C	11	C	een aan de de een een een een een een een een	10/12/2	2016	Treatment	11C (1')	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	8.00
12A	12	A	v	10/12/2	2016	Treatment	12A (1')	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10	<10	<10	<30	<4
12B	12	В		10/12/2	2016	Treatment	12B (1')	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10	30.90	34.60	65.50	<4
12C	12	C		10/12/2	2016	Treatment	12C (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	<5
12C	12	C		10/12/2	2016	Treatment	12C-1 (1')	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10	<10	<10	<30	<4
1A	1	Α.		10/12/2	2016	Vadose	1A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	21.00
1A	1	A		10/12/2	2016	Vadose	1A-1 (1')	< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10	<10	<10	<30	<4
1B	1	В		10/12/2	2016	Vadose	1B (3')	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	<20
1C	1	C		10/12/2	2016	Vadose	1C (3')	<0.500	<0.050	<0.50	<0.150	<0.300	<10	<10	<10	<30	8.00
10B	10	B		10/12/2	2016	Vadose	10B (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	8.00
10B	10) B		10/12/2	2016	Vadose	10B-1 (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	<4
10C	word and the second) C	·····	10/12/2	2016	Vadose	10C (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<20	<4
10C	10) C		10/12/2	2016	Vadose	10C-1 (3')	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<20	<4
11A	11	Α		10/12/2	2016	Vadose	11A (3')	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	8.00
11A	11	Α	***************************************	10/12/2	2016	Vadose	11A-1(3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	8.00
11B	11	В	~	10/12/2	2016	Vadose	11B (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	8.00
11C	11	С	*****	10/12/2	2016	Vadose	11C (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	8.00
12A	12	Α		10/12/2	2016	Vadose	12A (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	<4
12B	12	В		who was a second	V->- V-W-11444	Vadose	12B (1')	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	8.00
12C	12	C	D 17 90 10 10 10 10 10 10 10 10 10 10 10 10 10	10/12/2	2016	Vadose	12C (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	<5
12C	12	C		10/12/2	2016	Vadose	12C-1 (3')	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10	<10	<10	<30	<4

Table 2b – 2015 soil sampling results

~~~			*							Ethyl-		•	GRO C6-	DRO >C10-	ORO >C28		
Cell no &	The second secon			Sample		Sample	Sample ID	Benzene		benzene		BTEX	C10	C28	C35	TPH	Chloride
ltr 🔻	Cell no 🔨	ltr	7	Date	T.	Zone	(Depth)	(mg/kg *	(mg/kg *	(mg/kg ▼	(mg/kg *	(mg/kg 🔻	(mg/kg ▼	(mg/kg) *	(mg/kg 🔻	(mg/kg *	(mg/kg *
1A	1	Α		9/30/2	015	Treatment	1A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	<5
1A	1	Α	e en com metod	9/30/2	015	Treatment	1A-1(1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	A CHILDREN COMMISSION TO SERVICE
1B	1	В.		9/30/2	015	Treatment	1B (1')	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	<10		<20	<5
1C	1	С		9/30/2	015	Treatment	1C (1')	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	<5
10B	10	В		9/30/2	015	Treatment	10B (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	<5
10B	10	В		9/30/2	015	Treatment	10B-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	
10C	10	С		9/30/2	015	Treatment	10C (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	
10C	10	С		9/30/2	015	Treatment	10C-1 (1')	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	Manager 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
11A	11	Α		9/30/2	015	Treatment	11A (1')	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	15.70	15.70	31.40	
11B	11	В		9/30/2	015	Treatment	11B (1')	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	
11B	11	В		9/30/2	015	Treatment	11B-1 (1')	< 0.050	< 0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	<5
11C	11	С		9/30/2	015	Treatment	11C (1')	< 0.050	<0.050	< 0.050	<0.150	<0.300	<10	<10	<10	<30	<5
12A	12	Α		9/30/2	015	Treatment	12A (1')	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10	<10	<10	<30	<5
12A	12	Α		9/30/2	015	Treatment	12A-1 (1')	< 0.050	< 0.050	<0.050	< 0.150	<0.300	<10	<10	<10	<30	<5
12B	12	В		9/30/2	015	Treatment	12B (1')	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10	<10	<10	<30	<5
12C	12	С		9/30/2	015	Treatment	12C (1')	< 0.050	<0.050	< 0.050	<0.150	<0.300	<10	<10	<10	<30	<5
1A	1	Α		9/30/2	015	Vadose	1A (1')	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10	<10	<10	<30	<5
1A	1	Α		9/30/2	015	Vadose	1A-1 (1')	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	<5
1B	1	В		9/30/2	015	Vadose	1B (3')	< 0.050	<0.050	<0.050	<0.150	< 0.300	<10	<10	<10	<30	<10
1C	1	С		9/30/2	015	Vadose	1C (3')	< 0.500	< 0.050	< 0.50	<0.150	< 0.300	<10	<10	<10	<30	<5
10B	10	В		9/30/2	015	Vadose	10B (3')	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10	<10	<10	<30	<5
10B	10	В		9/30/2	015	Vadose	10B-1(3')	< 0.050	<0.050	< 0.050	< 0.150	< 0.300	<10	<10	<10	<30	20.00
10C	10	С		9/30/2	015	Vadose	10C (3')	< 0.050	< 0.050	< 0.050	< 0.150	<0.300	<10	<10	<10	<20	<5
10C	10	С		9/30/2	015	Vadose	10C-1 (3')	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10	<10	<10	<20	<5
11A	11	Α		9/30/2	015	Vadose	11A (3')	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10	<10	<10	<30	<5
11B	11	В		9/30/2	015	Vadose	11B (3')	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10	<10	<10	<30	20.00
11B	11	В		9/30/2	015	Vadose	11B-1 (3')	< 0.050	< 0.050	< 0.050	<0.150	<0.300	<10	<10	<10	<30	<5
11C	11	С		9/30/2	015	Vadose	11C (3')	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	<5
12A	12	A		9/30/2	015	Vadose	12A (3')	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	<5
12A	12	Α		9/30/2	015	Vadose	12A-1 (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	<5
12B	12	В		9/30/2	015	Vadose	12B (1')	< 0.050	< 0.050	<0.050	< 0.150	<0.300	<10	<10	<10	<30	<5
12C	12	******	******	9/30/2	015	Vadose	12C (2')	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<30	) <5

Table 2c-2014 soil sampling results

Cell no &			Sample		Sample	Sample ID	Benzene	Toluene	Ethyl- benzene	Xylene	втех	GRO C6- C10	DRO >C10- C28	ORO >C28	ТРН	Chloride
ltr 🔻	Cell no ▼ ltr	_	Date	·Y	Zone 🔻	(Depth)	(mg/kg	(mg/kg ~	(mg/kg -	(mg/kg -	(mg/kg =	(mg/kg *	(mg/kg) -	(mg/kg 🔻	(mg/kg =	2
1A	1 A	******************	12/29/2	014	Treatment	1A (1')	<0.050	< 0.050	<0.050			3	£	3	<20	
1A	1 A		12/29/2	014	Treatment	1A-1 (1')	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10	<10		<20	<4
1B	1 B		12/29/2	014	Treatment	1B (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10		<20	<4
1C	1 C		12/29/2	014	Treatment	1C (1')	< 0.050	<0.050	<0.050	<0.150	< 0.300	<10	<10		<20	<4
10B	10 B		12/29/2	014	Treatment	10B (1')	< 0.050	<0.050	<0.050	<0.150	<0.300	<10	10.20		<20	**************************************
10B	10 B		12/29/2	014	Treatment	10B-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10		\$1.17.000000	<20	
10C	10 C		12/29/2	014	Treatment	10C (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	ļ	ş	<20	<4
10C	10 C		12/29/2	014	Treatment	10C-1 (1')	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10	<10	<10	<20	<4
11A	11 A		12/29/2	014	Treatment	11A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10		<20	\$1.000000000000000000000000000000000000
11B	11 B		12/29/2	014	Treatrnent	11B (1')	<0.050	< 0.050	<0.050	<0.150		ş	<10		<20	
11B	11 B		12/29/2	014	Treatment	11B-1 (1')	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10	<10		<20	<4
11C	11 C		12/29/2	014	Treatment	11C (1')	<0.050	<0.050	<0.050	<0.150	·	{~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<10		<20	gramman and an analysis and an
12A	12 A	· · · · · · · · · · · · · · · · · · ·	12/29/2	014	Treatment	12A (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10		<20	
12A	12 A	VV10000-020-01	12/29/2	014	Treatment	12A-1 (1')	<0.050	< 0.050	< 0.050	<0.150	< 0.300			-	<20	AND THE STREET
12B	12 B		12/29/2	014	Treatment	12B (1')	<0.050	<0.050	<0.050	<0.150	§	Į		·		}
12C	12 C		12/29/2	014	Treatment	12C (1')	<0.050	< 0.050	<0.050	<0.150	<0.300	<10	\$1.0.1/2.1/2.1/2.1/2.1/2.1/2.1/2.1/2.1/2.1/2	\$-000-00000000000000000000000000000000		
1A	1 A		12/29/2	014	Vadose	1A (1')	<0.050	< 0.050	< 0.050	<0.150	<0.300	<10		\$		
1A	1 A		12/29/2	014	Vadose	1A-1 (1')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	·	·	<20	\$11111 A. PORTO AND
1B	1 B		12/29/2	014	Vadose	1B (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10		<20	<4
1C	1 C		12/29/2	014	Vadose	1C (3')	<0.500	< 0.050	<0.50	<0.150		\$~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<10		<20	
10B	10 B		12/29/2	014	Vadose	10B (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10		\$	<20	·
10B	10 B		12/29/2	014	Vadose	10B-1 (3')	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10	<10	\$1211111111111111111111111111111111111	&	\$11/10 mm-1/21111111111111111111111111111111111
10C	10 C	·	12/29/2	014	Vadose	10C (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10		·	
10C	10 C		12/29/2	014	Vadose	10C-1 (3')	<0.050	<0.050	<0.050	<0.150	<0.300	<10	<10	<10	<20	<4
11A	11 A		12/29/2	014	Vadose	11A (3')	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10	<10		<20	\$-w-
11B	11 B		12/29/2	014	Vadose	11B (3')	<0.050	< 0.050	<0.050	<0.150	<0.300	<10	<10		·····	7110000-1711111111111111111111111111111
11B	11 B		12/29/2	014	Vadose	11B-1 (3')	<0.050	·	\$	<0.150	ģ	}	**************************************	·	·	·
11C	11 C	Part Million	12/29/2	014	Vadose	11C (3')	<0.050		facilities of the second	Anna di Carana Lanca de la Carana de la Cara	·	Anna anna mana mana mana mana mana mana	55-August 2011 (1.15)	\$~~~~~~	dr.m.zwr zwr zwr zwr zwana	}~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
12A	12 A		12/29/2	014	Vadose	12A (3')	<0.050	\$****************************	\$	<0.150		\$1	·	\$	***************************************	in the same and the same
12A	12 A	MA 71.95 1/2 VANOA	12/29/2	014	Vadose	12A-1 (3')	<0.050	0.050	<0.050	V		ģ.		\$	A	on a service to the service of the s
12B	12 B		12/29/2	014	Vadose	12B (1')	<0.050	<0.050	\$ A			\$		\$	Succession on annual succession	3
12C	12 C	**************************************	12/29/2	014	Vadose	12C (3')	<0.050	dy. am. man man man man man	· ·····	\$10.00.000.000.000.000.000.000.000.000.0	\$	}		\$		

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October 20, 2016

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 10/13/16 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 <a href="https://www.tceq.texas.gov/field/ga/lab-accred-certif.html">www.tceq.texas.gov/field/ga/lab-accred-certif.html</a>.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 20-Oct-16 13:57

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
1A (1')	H602311-01	Soil	12-Oct-16 09:20	13-Oct-16 13:25
1A (3')	H602311-02	Soil	12-Oct-16 09:25	13-Oct-16 13:25
1A- 1 (1')	H602311-03	Soil	12-Oct-16 09:40	13-Oct-16 13:25
1AB- 1 (3')	H602311-04	Soil	12-Oct-16 09:45	13-Oct-16 13:25
1B (1')	H602311-05	Soil	12-Oct-16 09:50	13-Oct-16 13:25
1B (3')	H602311-06	Soil	12-Oct-16 09:55	13-Oct-16 13:25
IC (1')	H602311-07	Soil	12-Oct-16 10:30	13-Oct-16 13:25
IC (3')	H602311-08	Soil	12-Oct-16 10:35	13-Oct-16 13:25
10B (1')	H602311-09	Soil	12-Oct-16 11:00	13-Oct-16 13:25
10B (3')	H602311-10	Soil	12-Oct-16 11:05	13-Oct-16 13:25
108-1 (1')	H602311-11	Soil	12-Oct-16 11:20	13-Oct-16 13:25
LOB- 1 (3')	H602311-12	Soil	12-Oct-16 11:25	13-Oct-16 13:25
10C (1')	H602311-13	Soil	12-Oct-16 11:50	13-Oct-16 13:25
10C (3')	H602311-14	Soil	12-Oct-16 11:55	13-Oct-16 13:25
10C- 1 (1')	H602311-15	Soil	12-Oct-16 12:10	13-Oct-16 13:25
10C- 1 (3')	H602311-16	Soil	12-Oct-16 12:15	13-Oct-16 13:25
11A (1')	H602311-17	Soil	12-Oct-16 13:30	13-Oct-16 13:25
11A (3')	H602311-18	Soil	12-Oct-16 13:35	13-Oct-16 13:25
11A- 1 (1')	H602311-19	Soil	12-Oct-16 13:50	13-Oct-16 13:25
11A- 1 (3')	H602311-20	Soil	12-Oct-16 13:55	13-Oct-16 13:25
11 B (1')	H602311-21	Soil	12-Oct-16 14:10	13-Oct-16 13:25
11 B (3')	H602311-22	Soil	12-Oct-16 14:15	13-Oct-16 13:25
11 C (1')	H602311-23	Soil	12-Oct-16 14:30	13-Oct-16 13:25
11 C (3')	H602311-24	Soil	12-Oct-16 14:35	13-Oct-16 13:25
12 A (1')	H602311-25	Soil	12-Oct-16 14:40	13-Oct-16 13:25
12 A (3')	H602311-26	Soil	12-Oct-16 14:45	13-Oct-16 13:25
12 B (1')	H602311-27	Soil	12-Oct-16 15:00	13-Oct-16 13:25

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keine



JOHN H. HENDRIX CORPORATION P. O. BOX 3040 MIDLAND TX, 79702		Project Number: Project Manager:	JHHC SWMF NM-02-0021 JHHC CAROLYN DORAN HAYNES (575) 394-2653	Reported: 20-Oct-16 13:57		
12 B (3')	H602311-28	Soil	12-Oct-16 15:05	13-Oct-16 13:25		
12 C (1')	H602311-29	Soil	12-Oct-16 15:20	13-Oct-16 13:25		
12 C (3')	H602311-30	Soil	12-Oct-16 15:25	13-Oct-16 13:25		
12 C- 1 (1')	H602311-31	Soil	12-Oct-16 15:40	13-Oct-16 13:25		
12C - 1 (3')	H602311-32	Soil	12-Oct-16 15:45	13-Oct-16 13:25		

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 20-Oct-16 13:57

1A (1') H602311-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	21.0		4.00	mg/kg	1	6101404	AC	18-Oct-16	4500-C1-B	
Volatile Organic Compounds	by EPA Method	1 8021								
Benzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		100 %	73.6	-140	6101401	CK	14-Oct-16	8021B	
Petroleum Hydrocarbons by (	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101309	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101309	CK	14-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101309	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane			85.8 %	35-	147	6101309	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			100 %	28-	171	6101309	CK	14-Oct-16	8015B	

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20-Oct-16 13:57



# Analytical Results For:

JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

1A (3') H602311-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds						_			Tage	
Chloride	15.0		4.00	mg/kg	1	6101404	AC	18-Oct-16	4500-C1-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.6 %	73.6	-140	6101401	CK	14-Oci-16	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101309	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101309	CK	14-Oct-16	8015B	
EXT DRQ >C28-C35	<10.0		10.0	mg/kg	1	6101309	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane			101 %	35-	147	6101309	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			108 %	28-	171	6101309	CK	14-Oct-16	8015B	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 20-Oct-16 13:57

1A-1 (1') H602311-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	<4.00		4.00	mg/kg	1	6101404	AC	18-Oct-16	4500-CI-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.6 %	73.6	-140	6101401	CK	14-Oct-16	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101309	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101309	CK	14-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101309	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane			92.2 %	35-	147	6101309	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			99.7 %	28-	171	6101309	CK	14-Oct-16	8015B	

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Celeg D. Keine



JOHN H. HENDRIX CORPORATION

P. O. BOX 3040

MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021

Project Number: JHHC

Reported:

20-Oct-16 13:57

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

1AB-1 (3') H602311-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds					_					
Chloride	40.0		4.00	mg/kg	1	6101404	AC	18-Oct-16	4500-C1-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.6	-140	6101401	CK	14-Oct-16	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
ORO >C10-C28	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane			94.5 %	35-	147	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			103 %	28-	171	6101310	CK	14-Oct-16	8015B	

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JOHN H. HENDRIX CORPORATION

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

Reported: 20-Oct-16 13:57

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

1B (1') H602311-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	8.00		4.00	mg/kg	1	6101801	AC	18-Oct-16	4500-CI-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.5 %	73.6	-140	6101401	CK	14-Oct-16	8021B	
Petroleum Hydrocarbons by GC	CFID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane			82.1 %	35-	147	6101310	CK	14-Oc1-16	8015B	
Surrogate: 1-Chlorooctadecane			83.8 %	28-	171	6101310	CK	14-Oct-16	8015B	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 20-Oct-16 13:57

1B (3')

H602311-06 (Soil)

Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborato	ries					
					_			2 1 1 1 1 1 1	7
20.0		4.00	mg/kg	1	6101801	AC	18-Oct-16	4500-Cl-B	
EPA Method	8021								
< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
< 0.150		0.150	mg/kg	50	6101401	CK	14-Oct-16	8021B	
< 0.300		0.300	mg/kg	50	6101401	CK	14-Oct-16	8021B	
		99.5 %	73.6-	140	6101401	CK	14-Oct-16	8021B	2
CFID				-					
<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
		96.4 %	35-1-	47	6101310	CK	14-Oct-16	8015B	
		109 %	28-1	71	6101310	CK	14-Oct-16	8015B	
	V EPA Method 3 <0.050 <0.050 <0.050 <0.150 <0.300 C FID <10.0 <10.0	V EPA Method 8021 <0.050 <0.050 <0.050 <0.150 <0.300 C FID <10.0 <10.0	20.0 4.00  y EPA Method 8021  <0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150 <0.300 0.300  99.5 %  C FID  <10.0 10.0 <10.0 10.0 <10.0 10.0  96.4 %	20.0 4.00 mg/kg  y EPA Method 8021  <0.050 0.050 mg/kg <0.050 0.050 mg/kg <0.050 0.050 mg/kg <0.050 0.050 mg/kg <0.150 0.150 mg/kg <0.300 0.300 mg/kg  99.5 % 73.6-1  C FID  <10.0 10.0 mg/kg	V EPA Method 8021         0.050         mg/kg         50           <0.050	20.0 4.00 mg/kg 1 6101801  y EPA Method 8021  <0.050 0.050 mg/kg 50 6101401 <0.050 0.050 mg/kg 50 6101401 <0.050 0.050 mg/kg 50 6101401 <0.150 0.150 mg/kg 50 6101401 <0.300 0.300 mg/kg 50 6101401  y9.5 % 73.6-140 6101401  C FID  <10.0 10.0 mg/kg 1 6101310	20.0 4.00 mg/kg 1 6101801 AC  VEPA Method 8021  <0.050 0.050 mg/kg 50 6101401 CK <0.050 0.050 mg/kg 50 6101401 CK <0.050 0.050 mg/kg 50 6101401 CK <0.150 0.150 mg/kg 50 6101401 CK <0.300 0.300 mg/kg 50 6101401 CK  VEPA Method 8021  CK  CFID  10.0 mg/kg 1 6101310 CK  10.0 mg/kg 1 6101310 CK	20.0 4.00 mg/kg 1 6101801 AC 18-Oct-16  VEPA Method 8021  <0.050 0.050 mg/kg 50 6101401 CK 14-Oct-16 <0.050 0.050 mg/kg 50 6101401 CK 14-Oct-16 <0.050 0.050 mg/kg 50 6101401 CK 14-Oct-16 <0.150 0.150 mg/kg 50 6101401 CK 14-Oct-16 <0.300 0.300 mg/kg 50 6101401 CK 14-Oct-16  <0.300 0.300 mg/kg 50 6101401 CK 14-Oct-16  CFID  <10.0 0 0.00 mg/kg 1 6101310 CK 14-Oct-16  <10.0 0 0.00 mg/kg 1 6101310 CK 14-Oct-16  <10.0 0 0.00 mg/kg 1 6101310 CK 14-Oct-16  <10.0 0 0.00 mg/kg 1 6101310 CK 14-Oct-16  <10.0 0 0.00 mg/kg 1 6101310 CK 14-Oct-16  <10.00 0.00 mg/kg 1 6101310 CK 14-Oct-16	20.0 4.00 mg/kg 1 6101801 AC 18-Oct-16 4500-Cl-B  VEPA Method 8021  <0.050 0.050 mg/kg 50 6101401 CK 14-Oct-16 8021B <0.050 0.050 mg/kg 50 6101401 CK 14-Oct-16 8021B <0.050 0.050 mg/kg 50 6101401 CK 14-Oct-16 8021B <0.150 0.150 mg/kg 50 6101401 CK 14-Oct-16 8021B <0.150 0.150 mg/kg 50 6101401 CK 14-Oct-16 8021B <0.300 0.300 mg/kg 50 6101401 CK 14-Oct-16 8021B  VEPA Method 8021  0.050 0.050 mg/kg 50 6101401 CK 14-Oct-16 8021B  0.150 0.150 mg/kg 50 6101401 CK 14-Oct-16 8021B  0.300 0.300 mg/kg 1 6101401 CK 14-Oct-16 8021B  CEPID  CEPID  10.0 mg/kg 1 6101310 CK 14-Oct-16 8015B  10.0 10.0 mg/kg 1 6101310 CK 14-Oct-16 8015B

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JOHN H. HENDRIX CORPORATION

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

Reported: 20-Oct-16 13:57

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

1C (1') H602311-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	12.0		4.00	mg/kg	1	6101801	AC	18-Oct-16	4500-Cl-B	
Volatile Organic Compounds by	v EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.4 %	73.6	-140	6101401	CK	14-Oct-16	8021B	
Petroleum Hydrocarbons by Go	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane			84.8 %	35-	147	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			94.7 %	28-	171	6101310	CK	14-Oct-16	8015B	

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20-Oct-16 13:57



# Analytical Results For:

JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

1C (3')

H602311-08 (Soil)

Reporting

Analyte	Result	MDL	Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds			-						"	
Chloride	8.00		4.00	mg/kg	1	6101801	AC	18-Oct-16	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	3021						1 1		0.00
Benzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (P1D	)		97.4 %	73.6	-140	6101401	CK	14-Oct-16	8021B	
Petroleum Hydrocarbons by (	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane			90.0 %	35-	147	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			96.8 %	28-	171	6101310	CK	14-Oct-16	8015B	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported:

20-Oct-16 13:57

10B (1') H602311-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Chloride	<4.00		4.00	mg/kg	1	6101801	AC	18-Oct-16	4500-CI-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101401	CK	14-Oct-16	8021B.	
Surrogate: 4-Bromofluorobenzene (PID)			98.4 %	73.6	-140	6101401	CK	14-Oct-16	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	4
Surrogate: 1-Chlorooctane			91.9 %	35-	147	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			103 %	28-	171	6101310	CK	14-Oct-16	8015B	

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20-Oct-16 13:57



# Analytical Results For:

JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

10B (3') H602311-10 (Soil)

Reporting

Analyte Result MDL Limit Units Dilution Batch Analyst Analyzed Method Notes

		Cardina	l Laborato	ries					
Inorganic Compounds							-		
Chloride	8.00	4.00	mg/kg	1	6101801	AC	18-Oct-16	4500-CI-B	
Volatile Organic Compound	s by EPA Method 8021						4	100	
Benzene*	<0.050	0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)	97.1 %	73.6-	140	6101401	CK	14-Oct-16	802IB	
Petroleum Hydrocarbons by	GC FID								
GRO C6-C10	<10.0	10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0	10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
EXT DRO >C28-C35	<10.0	10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane		90.9 %	35-1-	47	6101310	CK	14-Oct-16	8015B	

28-171

101 %

6101310

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Surrogate: 1-Chlorooctadecane

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8015B

14-Oct-16

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JOHN H. HENDRIX CORPORATION

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

Reported: 20-Oct-16 13:57

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

10B-1 (1') H602311-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	<4.00		4.00	mg/kg	1	6101801	AC	18-Oct-16	4500-CI-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (P1D)			99.3 %	73.6	-140	6101401	СК	14-Oct-16	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	- 1	6101310	CK	14-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane			98.7 %	35-	147	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			113 %	28-	171	6101310	CK	14-Oct-16	8015B	

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20-Oct-16 13:57



# Analytical Results For:

JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

10B- 1 (3') H602311-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds							-			
Chloride	<4.00		4.00	mg/kg	1	6101801	AC	18-Oct-16	4500-C1-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID	)		98.5 %	73.6	-140	6101401	CK	14-Oct-16	8021B	
Petroleum Hydrocarbons by (	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane			88.4 %	35-	147	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			95.9 %	28-	171	6101310	CK	14-Oct-16	8015B	

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Celey D. Keine



JOHN H. HENDRIX CORPORATION P. O. BOX 3040

MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

20-Oct-16 13:57

Reported:

10C (1') H602311-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	12.0		4.00	mg/kg	1	6101801	AC	18-Oct-16	4500-CI-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (P1D)			99.2 %	73.6	-140	6101401	CK	14-Oct-16	8021B	
Petroleum Hydrocarbons by GC	FID							(2000)		
GRO C6-C10	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane			91.5 %	35-	147	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			99.9 %	28-	171	6101310	CK	14-Oct-16	8015B	

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20-Oct-16 13:57



# Analytical Results For:

JOHN H. HENDRIX CORPORATION

P. O. BOX 3040

MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

10C (3') H602311-14 (Soil)

Analyte	Result MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									255
Chloride	<4.00	4.00	mg/kg	1	6101801	AC	18-Oct-16	4500-C1-B	
Volatile Organic Compounds	by EPA Method 8021								
Benzene*	<0.050	0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PIE	))	100 %	73.6-	140	6101401	CK	14-Oct-16	8021B	
Petroleum Hydrocarbons by C	GC FID								
GRO C6-C10	<10.0	10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0	10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
EXT DRO>C28-C35	<10.0	10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane		94.3 %	35-1	47	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane		99.4 %	28-	71	6101310	CK	14-Oct-16	8015B	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported:

20-Oct-16 13:57

10C-1 (1') H602311-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	8.00		4.00	mg/kg	1	6101801	AC	18-Oct-16	4500-C1-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101401	CK	14-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		98.5 %	73.6	-140	6101401	CK	14-Oct-16	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane			87.9 %	35-	147	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			94.3 %	28-	171	6101310	CK	14-Oct-16	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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

10C-1 (3') H602311-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										1-
Chloride	<4.00		4.00	mg/kg	1	6101801	AC	18-Oct-16	4500-C1-B	
Volatile Organic Compounds I	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6101401	CK	15-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101401	CK	15-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101401	CK	15-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101401	CK	15-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101401	CK	15-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (P1D)		99.3 %	73.6-140		6101401	CK	15-Oct-16	8021B		
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
EXT DRO > C28-C35	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane			89.0 %	35-	147	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			94.1 %	28-	171	6101310	CK	14-Oct-16	8015B	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported:

20-Oct-16 13:57

# 11A (1') H602311-17 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	12.0		4.00	mg/kg	1	6101801	AC	18-Oct-16	4500-CI-B	
Volatile Organic Compounds by	EPA Metho	d 8021								
Benzene*	< 0.050		0.050	mg/kg	50	6101401	CK	15-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101401	CK	15-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101401	CK	15-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101401	CK	15-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101401	CK	15-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	ofluorobenzene (PID) 102 % 73.6-140		-140	6101401	CK	15-Oct-16	8021B			
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane			90.5 %	35-	147	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			98.5 %	28-	171	6101310	CK	14-Oct-16	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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

11A (3') H602311-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	8.00		4.00	mg/kg	1	6101801	AC	18-Oct-16	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								3000
Benzene*	<0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		101 %	73.6	-140	6101706	CK	17-Oct-16	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
EXT DRQ >C28-C35	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane			106 %	35-	147	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			112 %	28-	171	6101310	CK	14-Oct-16	8015B	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported:

20-Oct-16 13:57

11A- 1 (1') H602311-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	12.0		4.00	mg/kg	1	6101801	AC	18-Oct-16	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	73.6	-140	6101706	CK	17-Oct-16	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane			108 %	35-	147	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			113 %	28-	171	6101310	CK	14-Oct-16	8015B	

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JOHN H. HENDRIX CORPORATION

Project: JHHC SWMF NM-02-0021

Reported:

P. O. BOX 3040

MIDLAND TX, 79702

Project Number: JHHC

20-Oct-16 13:57

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

11A-1 (3') H602311-20 (Soil)

Inorganic Compounds Chloride 8.00 4.00	mg/kg	ories	6101801	AC	18-Oct-16	4500-CI-B	
<b>Chloride 8.00</b> 4.00		1	6101801	AC	18-Oct-16	4500-Cl-B	
		1	6101801	AC	18-Oct-16	4500-CI-B	
	malka						
Volatile Organic Compounds by EPA Method 8021	malka						
Benzene* <0.050 0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Toluene* <0.050 0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Ethylbenzene* <0.050 0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total Xylenes* <0.150 0.150	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total BTEX <0.300 0.300	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID) 99.1 9	6 73.6	-140	6101706	CK	17-Oct-16	8021B	
Petroleum Hydrocarbons by GC FID		-					
GRO C6-C10 <10.0 10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
DRO >C10-C28 <10.0 10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
EXT DRO >C28-C35 <10.0 10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane 89.8 9	6 35-	147	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane 95.3 9	6 28-	171	6101310	CK	14-Oct-16	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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

11 B (1') H602311-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	8.00		4.00	mg/kg	1	6101801	AC	18-Oct-16	4500-C1-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.8 %	73.6	-140	6101706	СК	17-Oct-16	8021B	
Petroleum Hydrocarbons by GC	CFID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane			90.6 %	35-	147	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			92.9 %	28-	171	6101310	CK	14-Oct-16	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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

11 B (3') H602311-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	tories					
Inorganic Compounds			-	-						
Chloride	8.00		4.00	mg/kg	1	6101801	AC	18-Oct-16	4500-C1-B	
Volatile Organic Compounds	by EPA Method	8021					1			
Benzene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (P1D)	)		102 %	73.6	-140	6101706	CK	17-Oct-16	8021B	
Petroleum Hydrocarbons by G	GC FID				-					
GRO C6-C10	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane			91.8 %	35-	147	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			101 %	28-	171	6101310	CK	14-Oct-16	8015B	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported:

20-Oct-16 13:57

11 C (1') H602311-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	8.00		4.00	mg/kg	1	6101801	AC	18-Oct-16	4500-CI-B	
Volatile Organic Compounds b	ov EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (P1D)			99.7 %	73.6	-140	6101706	CK	17-Oct-16	8021B	-
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctane			88.7 %	35-	147	6101310	CK	14-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			98.8 %	28-	171	6101310	CK	14-Oct-16	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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

11 C (3')

H602311-24 (Soil)

Analyte	Result	MDL Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	ıl Laborat	tories					
Inorganic Compounds								11	
Chloride	8.00	4.00	mg/kg	1	6101801	AC	18-Oct-16	4500-C1-B	
Volatile Organic Comp	ounds by EPA Method 80	21							
Benzene*	<0.050	0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Surrogate: 4-Bromofluorobenza	ene (PID)	100 %	73.6	-140	6101706	CK	17-Oct-16	8021B	
Petroleum Hydrocarbo	ns by GC FID								
GRO C6-C10	<10.0	10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
DRO >C10-C28	<10.0	10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
EXT DRO->C28-C35	<10.0	10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
Surrogate: 1-Chlorooctane		84.3 %	35-	147	6101311	CK	15-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane	ę	91.8 %	28-	171	6101311	CK	15-Oct-16	8015B	

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Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

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12 A (1') H602311-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	<4.00		4.00	mg/kg	1	6101802	AC	18-Oct-16	4500-C1-B	
Volatile Organic Compounds l	ov EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	73.6	140	6101706	CK	17-Oct-16	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
Surrogate: 1-Chlorooctane			93.1 %	35-	147	6101311	CK	15-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			105 %	28-	171	6101311	CK	15-Oct-16	8015B	

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Project Manager: CAROLYN DORAN HAYNES

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Reported: 20-Oct-16 13:57

12 A (3') H602311-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds									- 1	
Chloride	<4.00		4.00	mg/kg	1	6101802	AC	18-Oct-16	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021		1,000						
Benzene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		99.9 %	73.6	-140	6101706	CK	17-Oct-16	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101311	CK	20-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101311	CK	20-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101311	CK	20-Oct-16	8015B	
Surrogate: 1-Chlorooctane			75.0 %	35-	147	6101311	CK	20-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			73.8 %	28-	171	6101311	CK	20-Oct-16	8015B	

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Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

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Reported: 20-Oct-16 13:57

12 B (1') H602311-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories		·			
Inorganic Compounds										
Chloride	<4.00		4.00	mg/kg	1	6101802	AC	18-Oct-16	4500-CI-B	
Volatile Organic Compounds by I	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	_		100 %	73.6	-140	6101706	CK	17-Oct-16	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101311	CK	20-Oct-16	8015B	
DRO >C10-C28	30.9		10.0	mg/kg	1	6101311	CK	20-Oct-16	8015B	
EXT DRO >C28-C35	34.6		10.0	mg/kg	1	6101311	CK	20-Oct-16	8015B	
Surrogate: 1-Chlorooctane			84.4 %	35-	147	6101311	CK	20-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			102 %	28-	171	6101311	CK	20-Oct-16	8015B	

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Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

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Reported:

20-Oct-16 13:57

12 B (3') H602311-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds									111	
Chloride	8.00		4.00	mg/kg	1	6101802	AC	18-Oct-16	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		99.6%	73.6	-140	6101706	CK	17-Oct-16	8021B	
Petroleum Hydrocarbons by C	GC FID							1.00		
GRO C6-C10	<10.0		10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
Surrogate: 1-Chlorooctane			96.4 %	35-	147	6101311	CK	15-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			106 %	28-	171	6101311	CK	15-Oct-16	8015B	

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 20-Oct-16 13:57

12 C (1') H602311-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	<4.00		4.00	mg/kg	1	6101802	AC	18-Oct-16	4500-C1-B	
Volatile Organic Compounds b	v EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101706	CK	17-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			97.5 %	73.6	-140	6101706	CK	17-Oct-16	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
Surrogate: 1-Chlorooctane			83.3 %	35-	147	6101311	CK	15-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			89.0 %	28-	171	6101311	CK	15-Oct-16	8015B	

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Project: JHHC SWMF NM-02-0021

Reported:

P. O. BOX 3040

Project Number: JHHC

20-Oct-16 13:57

MIDLAND TX, 79702

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

12 C (3') H602311-30 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	<4.00		4.00	mg/kg	1	6101802	AC	18-Oct-16	4500-CI-B	
Volațile Organic Compounds	by EPA Method	8021	-				*****			
Benzene*	< 0.050		0.050	mg/kg	50	6101706	CK	18-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101706	CK	18-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101706	CK	18-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101706	CK	18-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101706	CK	18-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		102 %	73.6	-140	6101706	CK	18-Oct-16	8021B	
Petroleum Hydrocarbons by C	GC FID									1 HERELL
GRO C6-C10	<10.0		10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
Surrogate: 1-Chlorooctane			93.4 %	35-	147	61013II	CK	15-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			104 %	28-	171	6101311	CK	15-Oct-16	8015B	

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Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported:

20-Oct-16 13:57

12 C- 1 (1') H602311-31 (Soil)

Analyte	Result MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	ıl Laborat	tories					
Inorganic Compounds									
Chloride	<4.00	4.00	mg/kg	1	6101802	AC	18-Oct-16	4500-CI-B	
Volatile Organic Compounds I	by EPA Method 8021								
Benzene*	< 0.050	0.050	mg/kg	50	6101706	CK	18-Oct-16	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	6101706	CK	18-Oct-16	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	6101706	CK	18-Oct-16	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	6101706	CK	18-Oct-16	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	6101706	CK	18-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)	102 %	73.6	-140	6101706	CK	18-Oct-16	8021B	
Petroleum Hydrocarbons by C	GC FID								
GRO C6-C10	<10.0	10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
DRO >C10-C28	<10.0	10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
EXT DRO >C28-C35	<10.0	10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
Surrogate: 1-Chlorooctane		83.9 %	35-	147	6101311	CK	15-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane		96.3 %	28-	171	6101311	CK	15-Oct-16	8015B	

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Celeg D. Keene

Reported:

20-Oct-16 13:57



# Analytical Results For:

JOHN H. HENDRIX CORPORATION

P. O. BOX 3040

MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

12C - 1 (3')

H602311-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					
Inorganic Compounds										
Chloride	<4.00		4.00	mg/kg	1	6101802	AC	18-Oct-16	4500-C1-B	
Volatile Organic Compounds	by EPA Method	8021						4.44		
Benzene*	< 0.050		0.050	mg/kg	50	6101706	CK	18-Oct-16	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	6101706	CK	18-Oct-16	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	6101706	CK	18-Oct-16	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	6101706	CK	18-Oct-16	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	6101706	CK	18-Oct-16	8021B	
Surrogate: 4-Bromofluorobenzene (PID	)		101 %	73.6	-140	6101706	CK	18-Oci-16	8021B	
Petroleum Hydrocarbons by (	GC FID				100					lir a lin
GRO C6-C10	<10.0		10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
EXT DRO >C28-C35	<10.0		10.0	mg/kg	1	6101311	CK	15-Oct-16	8015B	
Surrogate: 1-Chlorooctane			97.3 %	35-	147	6101311	CK	15-Oct-16	8015B	
Surrogate: 1-Chlorooctadecane			106 %	28-	171	6101311	CK	15-Oct-16	8015B	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 20-Oct-16 13:57

### **Inorganic Compounds - Quality Control**

## **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6101404 - 1:4 DI Water				la trend						
Blank (6101404-BLK1)				Prepared &	Analyzed:	14-Oct-16				
Chloride	ND	16.0	mg/kg							
LCS (6101404-BS1)				Prepared &	Analyzed:	14-Oct-16				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (6101404-BSD1)				Prepared &	Analyzed:	14-Oct-16				
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	
Duplicate (6101404-DUP1)	Source	e: H602312	-02	Prepared &	Analyzed:	14-Oct-16				
Chloride	832	16.0	mg/kg		784			5.94	20	
Matrix Spike (6101404-MS1)	Source	e: H602312	-02	Prepared &	Analyzed:	14-Oct-16				
Chloride	1120	16.0	mg/kg	400	784	84.0	80-120			
Batch 6101801 - 1:4 DI Water										
Blank (6101801-BLK1)				Prepared &	Analyzed:	18-Oct-16				
Chloride	ND	16.0	mg/kg							
LCS (6101801-BS1)				Prepared &	Analyzed:	18-Oct-16				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (6101801-BSD1)				Prepared &	Analyzed:	18-Oct-16				
Chloride	432	16.0	mg/kg	400		108	80-120	3.77	20	
Batch 6101802 - 1:4 DI Water					,					
Blank (6101802-BLK1)				Prepared &	Analyzed:	18-Oct-16				
Chloride	ND	16.0	mg/kg							

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

# Analytical Results For:

JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 20-Oct-16 13:57

### **Inorganic Compounds - Quality Control**

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6101802 - 1:4 DI Water										11111
LCS (6101802-BS1)				Prepared &	Analyzed:	18-Oct-16			,	
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (6101802-BSD1)				Prepared &	Analyzed:	18-Oct-16				
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
Duplicate (6101802-DUP1)	Source	е: Н602322	-01	Prepared &	Analyzed:	18-Oct-16				
Chloride	64.0	16.0	mg/kg		64.0			0.00	20	
Matrix Spike (6101802-MS1)	Source	е: Н602322	-01	Prepared &	Analyzed:	18-Oct-16				
Chloride	480	16.0	mg/kg	400	64.0	104	80-120			

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 20-Oct-16 13:57

### 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 6101401 - Volatiles		7000	and the second					Carrier a ha		
Blank (6101401-BLK1)				Prepared &	Analyzed:	14-Oct-16				
Benzene	ND	0.050	mg/kg						100	
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)	ND		mg/kg	0.0500		99.1	73.6-140			
LCS (6101401-BS1)				Prepared &	Analyzed:	14-Oct-16				
Benzene	2.34	0.050	mg/kg	2.00		117	82.6-122			
Toluene	2.47	0.050	mg/kg	2.00		123	72.9-122			BS1
Ethylbenzene	2.42	0.050	mg/kg	2.00		121	65.4-131			
Total Xylenes	7.34	0.150	mg/kg	6.00		122	73.8-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0500		mg/kg	0.0500		99.9	73.6-140			
LCS Dup (6101401-BSD1)				Prepared &	Analyzed:	14-Oct-16				
Benzene	2.30	0.050	mg/kg	2.00		115	82.6-122	1.75	8.23	
Toluene	2.41	0.050	mg/kg	2.00		121	72.9-122	2.13	8.71	
Ethylbenzene	2.38	0.050	mg/kg	2.00		119	65.4-131	1.68	9.46	
Total Xylenes	7.21	0.150	mg/kg	6.00		120	73.8-125	1.80	8.66	
Surrogate: 4-Bromofluorobenzene (PID)	0.0497		mg/kg	0.0500		99.3	73.6-140			
Matrix Spike (6101401-MS1)	Sou	rce: H602306	-02	Prepared: 1	4-Oct-16 A	nalyzed: 1	5-Oct-16			
Benzene	2.09	0.050	mg/kg	2.00	ND	104	66.7-126			
Toluene	2.20	0.050	mg/kg	2.00	0.011	109	58.1-125			
Ethylbenzene	2.16	0.050	mg/kg	2.00	0.016	107	45.6-142			
Total Xylenes	6.53	0.150	mg/kg	6.00	0.028	108	52-138			
Surrogate: 4-Bromofluorobenzene (PID)	0.0505		mg/kg	0.0500		101	73.6-140			

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JOHN H. HENDRIX CORPORATION

Project: JHHC SWMF NM-02-0021

Reported:

P. O. BOX 3040

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

20-Oct-16 13:57

MIDLAND TX, 79702

Fax To: (575) 394-2653

### 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 6101401 - Volatiles										
Matrix Spike Dup (6101401-MSD1)	Sou	rce: H602306-	-02	Prepared: 1	4-Oct-16 A	analyzed: 1	5-Oct-16			
Benzene	2.11	0.050	mg/kg	2.00	ND	105	66.7-126	1.05	12.2	
Toluene	2.21	0.050	mg/kg	2.00	0.011	110	58.1-125	0.550	18.1	
Ethylbenzene	2.19	0.050	mg/kg	2.00	0.016	108	45.6-142	1.19	33.4	
Total Xylenes	6.62	0.150	mg/kg	6.00	0.028	110	52-138	1.32	36.2	
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	73.6-140			
Batch 6101706 - Volatiles		1.5	- V							-
Blank (6101706-BLK1)				Prepared &	Analyzed:	17-Oct-16				
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)	ND		mg/kg	0.0500		98.2	73.6-140			
LCS (6101706-BS1)				Prepared &	Analyzed:	17-Oct-16				
Benzene	2.00	0.050	mg/kg	2.00		100	82.6-122			
Toluene	2.15	0.050	mg/kg	2.00		107	72.9-122			
Ethylbenzene	2.14	0.050	mg/kg	2.00		107	65.4-131			
Total Xylenes	6.45	0.150	mg/kg	6.00		108	73.8-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0493		mg/kg	0.0500		98.6	73.6-140			
LCS Dup (6101706-BSD1)				Prepared &	Analyzed:	17-Oct-16				
Benzene	1.94	0.050	mg/kg	2.00		97.2	82.6-122	2.79	8.23	
Toluene	2.08	0.050	mg/kg	2.00		104	72.9-122	3.21	8.71	
Ethylbenzene	2.07	0.050	mg/kg	2.00		104	65.4-131	3.15	9.46	
Total Xylenes	6.25	0.150	mg/kg	6.00		104	73.8-125	3.18	8.66	
Surrogate: 4-Bromofluorobenzene (PID)	0.0498		mg/kg	0.0500		99.5	73.6-140			

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported:

20-Oct-16 13:57

# 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 6101706 - Volatiles										
Matrix Spike (6101706-MS1)	Sour	ce: H602311-	-18	Prepared: 1	7-Oct-16 A	nalyzed: 1	8-Oct-16			
Benzene	1.85	0.050	mg/kg	2.00	ND	92.7	66.7-126			
Toluene	2.01	0.050	mg/kg	2.00	0.006	100	58.1-125			
Ethylbenzene	2,00	0.050	mg/kg	2.00	0.010	99.4	45.6-142			
Total Xylenes	6.06	0.150	mg/kg	6.00	0.021	101	52-138			
Surrogate: 4-Bromofluorobenzene (PID)	0.0507		mg/kg	0.0500		101	73.6-140			
Matrix Spike Dup (6101706-MSD1)	Sour	ce: H602311-	18	Prepared: 1	7-Oct-16 A	nalyzed: 1	8-Oct-16			
Benzene	1.86	0.050	mg/kg	2.00	ND	92.9	66.7-126	0.281	12.2	
Toluene	2.01	0.050	mg/kg	2.00	0.006	100	58.1-125	0.195	18.1	
Ethylbenzene	1.99	0.050	mg/kg	2.00	0.010	99.3	45.6-142	0.126	33.4	
Total Xylenes	6.05	0.150	mg/kg	6.00	0.021	100	52-138	0.169	36.2	
Surrogate: 4-Bromofluorobenzene (PID)	0.0508		mg/kg	0.0500		102	73.6-140			

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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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 20-Oct-16 13:57

# 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 6101309 - General Prep - Organics										
Blank (6101309-BLK1)				Prepared:	13-Oct-16 A	Analyzed: 1	14-Oct-16			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	48.6		mg/kg	50.0		97.2	35-147			
Surrogate: 1-Chlorooctadecane	52.0		mg/kg	50.0		104	28-171			
LCS (6101309-BS1)				Prepared:	13-Oct-16 A	Analyzed: 1	4-Oct-16			
GRO C6-C10	179	10.0	mg/kg	200		89.3	76,7-115			
DRO >C10-C28	189	10.0	mg/kg	200		94.3	78.3-122			
Surrogate: 1-Chlorooctane	47.6		mg/kg	50.0		95.2	35-147			
Surrogate: 1-Chlorooctadecane	52.1		mg/kg	50.0		104	28-171			
LCS Dup (6101309-BSD1)				Prepared:	13-Oct-16 A	Analyzed: 1	14-Oct-16		1011	
GRO C6-C10	177	10.0	mg/kg	200		88.5	76.7-115	0.820	9.42	
DRO >C10-C28	191	10.0	mg/kg	200		95.3	78.3-122	0.995	13.2	
Surrogate: 1-Chlorooctane	47.3		mg/kg	50.0		94.6	35-147			
Surrogate: 1-Chlorooctadecane	51.7		mg/kg	50.0		103	28-171			
Matrix Spike (6101309-MS1)	Sou	rce: H602311-	-03	Prepared:	13-Oct-16 A	Analyzed: 1	14-Oct-16			
GRO C6-C10	174	10.0	mg/kg	200	ND	86.9	66.4-123			
DRO >C10-C28	179	10.0	mg/kg	200	ND	89.3	67.6-126			
Surrogate: 1-Chlorooctane	48.0		mg/kg	50.0		96.0	35-147			
urrogate: 1-Chlorooctadecane	49.4		mg/kg	50.0		98.7	28-171			
Matrix Spike Dup (6101309-MSD1)	Sou	rce: H602311-	-03	Prepared:	13-Oct-16 A	Analyzed: 1	4-Oct-16			
GRO C6-C10	175	10.0	mg/kg	200	ND	87.5	66.4-123	0.643	10.2	
DRO >C10-C28	188	10.0	mg/kg	200	ND	93.8	67.6-126	4.91	11.6	
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0		97.6	35-147			
Surrogate: 1-Chlorooctadecane	53.7		mg/kg	50.0		107	28-171			

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 20-Oct-16 13:57

## Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Linii	Oints	Devei	Result	/BICLC	Limits	IQ D	Lilliet	140602
Batch 6101310 - General Prep - Organics										
Blank (6101310-BLK1)				Prepared:	13-Oct-16 A	nalyzed: 1	4-Oct-16			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.5		mg/kg	50.0		101	35-147			
Surrogate: 1-Chlorooctadecane	55.0		mg/kg	50.0		110	28-171			
LCS (6101310-BS1)				Prepared:	13-Oct-16 A	nalyzed: 1	4-Oct-16			
GRO C6-C10	182	10.0	mg/kg	200		91.1	76.7-115			
DRO >C10-C28	191	10.0	mg/kg	200		95.5	78.3-122			
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0		97.6	35-147			
Surrogate: 1-Chlorooctadecane	51.2		mg/kg	50.0		102	28-171			
LCS Dup (6101310-BSD1)				Prepared:	13-Oct-16 A	nalyzed: 1	4-Oct-16			
GRO C6-C10	177	10.0	mg/kg	200		88.5	76.7-115	2.92	9.42	
DRO >C10-C28	187	10.0	mg/kg	200		93.6	78.3-122	1.98	13.2	
Surrogate: 1-Chlorooctane	46.5		mg/kg	50.0		93.0	35-147			
Surrogate: 1-Chlorooctadecane	51.5		mg/kg	50.0		103	28-171			
Matrix Spike (6101310-MS1)	Sou	rce: H602311	-21	Prepared:	13-Oct-16 A	nalyzed: 1	4-Oct-16			
GRO C6-C10	191	10.0	mg/kg	200	ND	95.6	66.4-123			
DRO >C10-C28	208	10.0	mg/kg	200	ND	104	67.6-126			
Surrogate: 1-Chlorooctane	57.4		mg/kg	50.0		115	35-147			
Surrogate: 1-Chlorooctadecane	60.9		mg/kg	50.0		122	28-171			
Matrix Spike Dup (6101310-MSD1)	Sou	rce: H602311	-21	Prepared:	13-Oct-16 A	nalyzed: 1	4-Oct-16			
GRO C6-C10	191	10.0	mg/kg	200	ND	95.5	66.4-123	0.0476	10.2	
DRO >C10-C28	205	10.0	mg/kg	200	ND	103	67.6-126	1.31	11.6	
Surrogate: 1-Chlorooctane	56.6		mg/kg	50.0		113	35-147			
Surrogate: 1-Chlorooctadecane	59.7		mg/kg	50.0		119	28-171			

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Celeg D. Keene

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## Analytical Results For:

JOHN H. HENDRIX CORPORATION

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

Source

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported:

20-Oct-16 13:57

RPD

## Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

Reporting

	D 1:	reporting	¥1. **	Spike	Double	ACREC	7 in its	DDD	Limit	NT-4
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 6101311 - General Prep - Organic	3									
Blank (6101311-BLK1)				Prepared:	13-Oct-16 A	nalyzed: 1	4-Oct-16			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	48.1		mg/kg	50.0		96.3	35-147			
Surrogate: 1-Chlorooctadecane	58.5		mg/kg	50.0		117	28-171			
LCS (6101311-BS1)				Prepared:	13-Oct-16 A	nalyzed: 1	4-Oct-16			
GRO C6-C10	186	10.0	mg/kg	200		92.9	76.7-115			
DRO >C10-C28	205	10.0	mg/kg	200		103	78.3-122			
Surrogate: 1-Chlorooctane	56.3		mg/kg	50.0		113	35-147			
Surrogate: 1-Chlorooctadecane	61.5		mg/kg	50.0		123	28-171			
LCS Dup (6101311-BSD1)				Prepared:	13-Oct-16 A	nalyzed: 1	4-Oct-16			
GRO C6-C10	179	10.0	mg/kg	200		89.6	76.7-115	3.60	9.42	
DRO >C10-C28	193	10.0	mg/kg	200		96.4	78.3-122	6.24	13.2	
Surrogate: 1-Chlorooctane	53.2		mg/kg	50.0		106	35-147			
Surrogate: 1-Chlorooctadecane	54.8		mg/kg	50.0		110	28-171			
Matrix Spike (6101311-MS1)	Sou	rce: H602311-	24	Prepared:	13-Oct-16 A	nalyzed: 1	5-Oct-16			
GRO C6-C10	157	10.0	mg/kg	200	ND	78.4	66.4-123			
DRO >C10-C28	171	10.0	mg/kg	200	ND	85.6	67.6-126			
Surrogate: 1-Chlorooctane	44.3		mg/kg	50.0		88.5	35-147			
Surrogate: 1-Chlorooctadecane	49.7		mg/kg	50.0		99.4	28-171			
Matrix Spike Dup (6101311-MSD1)	Sou	rce: H602311-	24	Prepared:	13-Oct-16 A	nalyzed: 1	5-Oct-16			
GRO C6-C10	162	10.0	mg/kg	200	ND	80.8	66.4-123	3.04	10.2	
DRO >C10-C28	174	10.0	mg/kg	200	ND	87.2	67.6-126	1.76	11.6	
Surrogate: 1-Chlorooctane	45.6		mg/kg	50.0		91.1	35-147			
Surrogate: 1-Chlorooctadecane	49.0		mg/kg	50.0		98.1	28-171			

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Celeg D. Kreene



### **Notes and Definitions**

BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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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					MAT	RIX			PR		ERV		IVE		SAMPL	ING			ded to		As Ba	Cu Fe		es		B/624	8270C/625		(, Na)	lids (S	3 B or 300.1)		~ 24 Hours
LAB USE ONLY HGD2311	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR	SLUDGE	HCL	HNO ₃	NaHSO ₄	H₂SO₄	CE	None		DATE	TIME	MTBE 8021B/602	BTEX 8021 B	TPH 8015M (Extended to C35 - ORO)	PAH 8270C	RCRA Metals: Ag	WQCC Metals: Al Cu Fe Mn Zn	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	GC/MS Vol. 8260B/624	GC/MS Semi. Vol.	Moisture Content	Cations (Ca, Mg. K, Na)	Total Dissolved Solids (SM2540C)	Chlorides (SM4500 B	SPLP Chloride	Turn Around Time
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LAB USE ONLY	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR	SLUDGE	200	HNO ₃	NaHSO,	H₂SO₄	ICE	None		DATE	TIME	MTBE 8021B/602	BTEX 8021 B	TPH 8015M (Extended to C35 - ORO)	PAH 8270C	RCRA Metals: Ag	WQCC Metals: Al Cu Fe Mn Zn	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Semi. Vol. 8270C/625	Moisture Content	Cations (Ca. Mg. I	Anions (Cl, SO4, C	Total Dissolved Sc	Chlorides (SM4500 B or 300.1)	SPLP Chloride	I um Arbund IIme ~ 24 nours
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	E, Sec 15, W/2 NW/4 & V	N/2 SI	N/4 1	ea	Cot	ntv	NM		Calli	pici	, vaii		Gil V	an Deve	nter	•			35		Cd Cr Pb	1Zn					325		33,	2540	=	
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					ram.	RIX					THO		_	SA	MPL	ING			TPH 8015M (Extended to C35 - ORO)		As Ba	WQCC Metals: Al Cu Fe Mn Zn	40			GC/MS Vol. 8260B/624	8270C/625	Na)	CO3, HCO3,	Solids (SM2540C)	Chlorides (SM4500 B or 300.1)	SPLP Chloride
		9	# CONTAINERS	П			П					T					302		kten		Ag /	A	TCLP Semi Volatiles	w		909	0 0	X X		So	500	
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( ) A D ( ) C		5	Z	~			Щ			4							302	8021	15M	700	leta	Wet	emi emi	estic		Vol.	Sen	Ca	J	ssol	8 (5	plor
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	11B (1')	C	1	12	X	4	0,	+	+	-	-	X	-	10/12/	16	1410	12	X	X	<u>α</u>	IL.	>   -	+	+	IL.	0	0 2		A	-	X	()   F
	11B (3')	G	1	$\vdash$	X		+	$\dashv$	$\dashv$	+		X	+	10/12/		1415	╁	X	X		+	+	+	+	-	H	+	+	+	Н	X	+
	11C (1')	C	1	H	X		+	+	+	+	-	X	+	10/12/		1430	$\vdash$	X	1		+	+	+	+		H	+	+	+	H	X	+
	11C (3')	G	1		X		+	+	+	+	-	X	+	10/12/	-	1435	$\vdash$	X			+	+	+	+		Н	+	+	+	$\vdash$	X	+
	12A (1')	C	1		X		+	+	-	-		X	+	10/12/		1440	┢	X	X		+	+	+	+			+	+	+	H	X	+
	12A (3')	G	1		X		+	+	-	+	-	X	+	10/12/	_	1445	┢	X	X		+	+	+	+		H	+	+	+		X	-
77		C	1		X		+	+	$\dashv$	1	1	X	+	10/12/	-	1500	H	X	X		+	+	+	+		H	+	+	+		X	_
	12B (3')	G	1		X		+	+	1	-		X	+	10/12/		1505	╁	X	X		$\dashv$	+	+	+	+	H	+	+	+	H	X	_
29	12C (1')	C	1		X		+	+	+	1	+	X	+	10/12/	-	1520	$\vdash$	X	X		+	+	+	+	+	H	+	+	+	H	X	
30	12C (3')	G	1	$\vdash$	X		$\dashv$	1	1	1	-	X	+	10/12/		1525	$\vdash$	X	X		+	+	+	+	+		+	+	+	$\vdash$	X	_
31	12C-1 (1')	·C	1	$\vdash$	X		+	+	+	+		X	+	10/12/		1540	H	X	X		+	+	+	+			+	+	+	$\vdash$	X	$\top$
1/20	12G-1 (3')	G	1		X		+	+	1	+		X	+	10/12/		1545	-	X	X		+	+	+	+	-		+	+	+		X	-
Relinquished by			ved by:		H					Da	ate:		Time				Ph	_	Res	ults	+	1	'es	+	No				1			
TAL &	10/13/1 1.25	14	all	1	10	W	6	1	-			3/1		1:25	5				sults		1	+	res .	t	No		Addi	itiona	al Fa	x Nu	ımbe	r.
Relinquished by		Recei	ved By	(La	bora	itory	Staf	f)		Da	te:	7	Time				R	EM	ARK	S:	_	1			-							
		10	,					,																								
		-																Em	nail I	les.	ılts	to:						-				
Delivered By:	(Circle One)		Condi				- 1	CHE	CKE	DB	Y:	1	1															@jt		-		
		14.	22	Cool	1	intact					1	4											g		tric	ien	l-en	viro	nm	ent	al.co	om
Cample	LIDC Due Other		Yes	L	Yes	4	(	Initi	als)		1	1	1																			
sampler -	UPS - Bus - Other:		No		No						4	V																				

#75



October 07, 2015

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 09/30/15 16:22.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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.

Celeg 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:

09/30/2015

Sampling Date:

09/30/2015

Reported:

10/07/2015

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') (H502597-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS		-			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/02/2015	ND	2.31	116	2.00	0.0778	
Toluene*	< 0.050	0.050	10/02/2015	ND	2.28	114	2.00	0.581	
Ethylbenzene*	< 0.050	0.050	10/02/2015	ND	2.08	104	2.00	0.958	
Total Xylenes*	<0.150	0.150	10/02/2015	ND	6.29	105	6.00	0.600	
Total BTEX	<0.300	0.300	10/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1069	85.6-13	7						0
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	400	3.77	
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	10/02/2015	ND	196	98.1	200	4.79	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	213	107	200	3.69	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	87.15	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	85.0 9	6 52.1-170	5						

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Celey D. Keine



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

Received: Reported: 09/30/2015 10/07/2015

JHHC SWMF NM-02-0021

Project Location:

Project Name:

Project Number:

NOT GIVEN

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

Sampling Date:

09/30/2015

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: 1 A (3') (H502597-02)

BTEX 8021B	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2015	ND	2.31	116	2.00	0.0778	
Toluene*	<0.050	0.050	10/02/2015	ND	2.28	114	2.00	0.581	
Ethylbenzene*	<0.050	0.050	10/02/2015	ND	2.08	104	2.00	0.958	
Total Xylenes*	<0.150	0.150	10/02/2015	ND	6.29	105	6.00	0.600	
Total BTEX	<0.300	0.300	10/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107	% 85.6-13	7						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20.0	5.00	10/02/2015	ND	416	104	400	3.77	
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	10/02/2015	ND	196	98.1	200	4.79	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	213	107	200	3.69	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	95.1	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	94.7	% 52.1-17	6						

*=Accredited Analyte Cardinal Laboratories

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Celey D. Keene



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Fax To:

(575) 394-2653

Received:

09/30/2015

Reported:

10/07/2015

Project Name:

JHHC SWMF NM-02-0021

Project Number: Project Location: **NOT GIVEN** 

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

Sampling Date:

Sampling Type:

09/30/2015 Soil

Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

### Sample ID: 1 A-1 (1') (H502597-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2015	ND	2.31	116	2.00	0.0778	
Toluene*	<0.050	0.050	10/02/2015	ND	2.28	114	2.00	0.581	
Ethylbenzene*	<0.050	0.050	10/02/2015	ND	2.08	104	2.00	0.958	
Total Xylenes*	<0.150	0.150	10/02/2015	ND	6.29	105	6.00	0.600	
Total BTEX	<0.300	0.300	10/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107	% 85.6-13	7						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	400	3.77	
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	10/02/2015	ND	196	98.1	200	4.79	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	213	107	200	3.69	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	89.0	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	88.8	% 52.1-176	5						

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Celey D. Kreene



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Fax To:

(575) 394-2653

Received: Reported: 09/30/2015

Sampling Date: Sampling Type: 09/30/2015

DTEV 0031B

10/07/2015

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 (3') (H502597-04)

BTEX 8021B	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2015	ND	2.31	116	2.00	0.0778	
Toluene*	<0.050	0.050	10/02/2015	ND	2.28	114	2.00	0.581	
Ethylbenzene*	< 0.050	0.050	10/02/2015	ND	2.08	104	2.00	0.958	
Total Xylenes*	<0.150	0.150	10/02/2015	ND	6.29	105	6.00	0.600	
Total BTEX	<0.300	0.300	10/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 85.6-13	7					AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-AA-	
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20.0	5.00	10/02/2015	ND	416	104	400	3.77	
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	10/02/2015	ND	196	98.1	200	4.79	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	213	107	200	3.69	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	98.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	96.6	% 52.1-17	6						

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Celeg D. Kreine



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Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

10/07/2015

Sampling Type:

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') (H502597-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2015	ND	2.31	116	2.00	0.0778	
Toluene*	<0.050	0.050	10/02/2015	ND	2.28	114	2.00	0.581	
Ethylbenzene*	<0.050	0.050	10/02/2015	ND	2.08	104	2.00	0.958	
Total Xylenes*	<0.150	0.150	10/02/2015	ND	6.29	105	6.00	0.600	
Total BTEX	<0.300	0.300	10/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1069	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	400	3.77	
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	10/02/2015	ND	196	98.1	200	4.79	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	213	107	200	3.69	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	98.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	98.0	% 52.1-17	6						

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Celey D. Keine



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

Fax To:

(575) 394-2653

Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

10/07/2015

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') (H502597-06)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2015	ND	2.31	116	2.00	0.0778	
Toluene*	<0.050	0.050	10/02/2015	ND	2.28	114	2.00	0.581	
Ethylbenzene*	<0.050	0.050	10/02/2015	ND	2.08	104	2.00	0.958	
Total Xylenes*	<0.150	0.150	10/02/2015	ND	6.29	105	6.00	0.600	
Total BTEX	<0.300	0.300	10/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 85.6-13	7						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<10.0	10.0	10/02/2015	ND	416	104	400	3.77	
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	10/02/2015	ND	196	98.1	200	4.79	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	213	107	200	3.69	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	97.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	95.2	% 52.1-17	6						

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Celeg D. Keine



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

Fax To:

(575) 394-2653

Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

10/07/2015

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') (H502597-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2015	ND	2.31	116	2.00	0.0778	
Toluene*	<0.050	0.050	10/02/2015	ND	2.28	114	2.00	0.581	
Ethylbenzene*	<0.050	0.050	10/02/2015	ND	2.08	104	2.00	0.958	
Total Xylenes*	<0.150	0.150	10/02/2015	ND	6.29	105	6.00	0.600	
Total BTEX	<0.300	0.300	10/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	% 85.6-13	7				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	400	3.77	
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	10/02/2015	ND	196	98.1	200	4.79	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	213	107	200	3.69	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	93.5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	92.8	% 52.1-17	6						

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Fax To:

(575) 394-2653

Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

10/07/2015

Sampling Type:

Soil

Project Name:

JHHC SWMF NM-02-0021

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Sample Received By:

Jodi Henson

Project Location:

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

Sample ID: 1 C (3') (H502597-08)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2015	ND	2.31	116	2.00	0.0778	
Toluene*	<0.050	0.050	10/02/2015	ND	2.28	114	2.00	0.581	
Ethylbenzene*	< 0.050	0.050	10/02/2015	ND	2.08	104	2.00	0.958	
Total Xylenes*	<0.150	0.150	10/02/2015	ND	6.29	105	6.00	0.600	
Total BTEX	<0.300	0.300	10/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 85.6-13	7					······································	s
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	400	3.77	
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	10/02/2015	ND	196	98.1	200	4.79	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	213	107	200	3.69	
EXT DRO > C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	97.1	% 47.2-15	7						-
Surrogate: 1-Chlorooctadecane	95.1	% 52.1-17	6						

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Received: Reported: 09/30/2015

10/07/2015 JHHC SWMF NM-02-0021

Project Number: Project Location:

Project Name:

**NOT GIVEN** 

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

Sampling Date:

Sampling Type: Sampling Condition:

Cool & Intact Sample Received By:

Jodi Henson

09/30/2015

Soil

Sample ID: 10 B (1') (H502597-09)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2015	ND	2.31	116	2.00	0.0778	
Toluene*	<0.050	0.050	10/02/2015	ND	2.28	114	2.00	0.581	
Ethylbenzene*	<0.050	0.050	10/02/2015	ND	2.08	104	2.00	0.958	
Total Xylenes*	<0.150	0.150	10/02/2015	ND	6.29	105	6.00	0.600	
Total BTEX	<0.300	0.300	10/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AP				-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	400	3.77	
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	10/02/2015	ND	196	98.1	200	4.79	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	213	107	200	3.69	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	96.3	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	96.0	% 52.1-17	6						

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Fax To: (575) 394-2653

Received: Reported: 09/30/2015

10/07/2015

Project Name: Project Number:

Project Location:

JHHC SWMF NM-02-0021

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

09/30/2015 Sampling Date: Sampling Type:

Sampling Condition: Sample Received By: Soil Cool & Intact

Jodi Henson

Sample ID: 10 B (3') (H502597-10)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2015	ND	2.31	116	2.00	0.0778	
Toluene*	<0.050	0.050	10/02/2015	ND	2.28	114	2.00	0.581	
Ethylbenzene*	<0.050	0.050	10/02/2015	ND	2.08	104	2.00	0.958	
Total Xylenes*	<0.150	0.150	10/02/2015	ND	6.29	105	6.00	0.600	
Total BTEX	<0.300	0.300	10/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 85.6-13	7						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	400	3.77	
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	10/02/2015	ND	196	98.1	200	4.79	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	213	107	200	3.69	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	99.1	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	98.8	% 52.1-17	6						

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Fax To:

(575) 394-2653

Analyzed By: MS

Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

BTEX 8021B

10/07/2015

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') (H502597-11)

DIEX 8041B	mg/	rcg	Analyze	u by: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2015	ND	2.31	116	2.00	0.0778	
Toluene*	<0.050	0.050	10/02/2015	ND	2.28	114	2.00	0.581	
Ethylbenzene*	<0.050	0.050	10/02/2015	ND	2.08	104	2.00	0.958	
Total Xylenes*	<0.150	0.150	10/02/2015	ND	6.29	105	6.00	0.600	
Total BTEX	<0.300	0.300	10/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 9	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	400	3.77	
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	10/02/2015	ND	196	98.1	200	4.79	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	213	107	200	3.69	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	95.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	93.89	% 52.1-17	6						

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Received:

09/30/2015

(3/3) 33 ( 203.

Reported:

10/07/2015

Sampling Date: Sampling Type: 09/30/2015 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') (H502597-12)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2015	ND	2.31	116	2.00	0.0778	
Toluene*	<0.050	0.050	10/02/2015	ND	2.28	114	2.00	0.581	
Ethylbenzene*	< 0.050	0.050	10/02/2015	ND	2.08	104	2.00	0.958	
Total Xylenes*	<0.150	0.150	10/02/2015	ND	6.29	105	6.00	0.600	
Total BTEX	<0.300	0.300	10/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 9	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20.0	5.00	10/02/2015	ND	416	104	400	3.77	
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	10/02/2015	ND	196	98.1	200	4.79	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	213	107	200	3.69	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	96.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	95.0	% 52.1-17	6						

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Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

10/07/2015

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') (H502597-13)

BTEX 8021B	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2015	ND	2.31	116	2.00	0.0778	
Toluene*	<0.050	0.050	10/02/2015	ND	2.28	114	2.00	0.581	
Ethylbenzene*	<0.050	0.050	10/02/2015	ND	2.08	104	2.00	0.958	
Total Xylenes*	<0.150	0.150	10/02/2015	ND	6.29	105	6.00	0.600	
Total BTEX	<0.300	0.300	10/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 85.6-13	7						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	400	3.77	
TPH 8015M	mg,	leg	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	10/02/2015	ND	196	98.1	200	4.79	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	213	107	200	3.69	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	107	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	103	% 52.1-17	6						*

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Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

10/07/2015

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') (H502597-14)

BTEX 8021B	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2015	ND	2.31	116	2.00	0.0778	
Toluene*	< 0.050	0.050	10/02/2015	ND	2.28	114	2.00	0.581	
Ethylbenzene*	<0.050	0.050	10/02/2015	ND	2.08	104	2.00	0.958	
Total Xylenes*	< 0.150	0.150	10/02/2015	ND	6.29	105	6.00	0.600	
Total BTEX	<0.300	0.300	10/02/2015	ND,					
Surrogate: 4-Bromofluorobenzene (PIL	107	% 85.6-13	7					- The	4
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	400	3.77	
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	10/02/2015	ND	196	98.1	200	4.79	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	213	107	200	3.69	
EXT DRO >628-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	89.3	% 47.2-15	7						*
Surrogate: 1-Chlorooctadecane	89.0	% 52.1-17	6						

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Fax To:

Received: Reported: 09/30/2015

Sampling Date:

09/30/2015

10/07/2015

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') (H502597-15)

BTEX 8021B	mg/l	(g	Analyze	d By: MS	-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2015	ND	2.31	116	2.00	0.0778	
Toluene*	<0.050	0.050	10/02/2015	ND	2.28	114	2.00	0.581	
Ethylbenzene*	<0.050	0.050	10/02/2015	ND	2.08	104	2.00	0.958	
Total Xylenes*	<0.150	0.150	10/02/2015	ND	6.29	105	6.00	0.600	
Total BTEX	<0.300	0.300	10/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 %	85.6-13	7						
Chloride, SM4500CI-B	mg/i	(g	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	400	3.77	
TPH 8015M	mg/i	(g	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	10/02/2015	ND	195	97.7	200	1.95	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	214	107	200	1.46	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	105 %	47.2-15	7						
Surrogate: 1-Chlorooctadecane	104 %	52.1-176	5						

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Fax To:

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

Received:

Reported:

09/30/2015

10/07/2015

JHHC SWMF NM-02-0021

Project Name: Project Number:

Project Location:

**NOT GIVEN** 

Sample Received By:

Sampling Date:

Sampling Type:

Sampling Condition:

09/30/2015

Soil

Cool & Intact

Jodi Henson

Sample ID: 10 C - 1 (3') (H502597-16)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/02/2015	ND	2.31	116	2.00	0.0778	
Toluene*	<0.050	0.050	10/02/2015	ND	2.28	114	2.00	0.581	
Ethylbenzene*	<0.050	0.050	10/02/2015	ND	2.08	104	2.00	0.958	
Total Xylenes*	<0.150	0.150	10/02/2015	ND	6.29	105	6.00	0.600	
Total BTEX	<0.300	0.300	10/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107	% 85.6-13	7						-
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	<5.00	5.00	10/02/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	10/02/2015	ND	195	97.7	200	1.95	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	214	107	200	1.46	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	96.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	97.7	% 52.1-17	6						

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

09/30/2015

Reported: 10/07/2015

Project Name: JHHC SWMF NM-02-0021

Project Number: NOT GIVEN

Project Location: T24S,R36E,SEC15,W/2 NW/4 & W/2 SW/ Sampling Date:

09/30/2015 Sampling Type: Soil

Sampling Condition:

Cool & Intact Sample Received By: Jodi Henson

Sample ID: 11 A (1') (H502597-17)

Received:

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/02/2015	ND	2.31	116	2.00	0.0778	
Toluene*	<0.050	0.050	10/02/2015	ND	2.28	114	2.00	0.581	
Ethylbenzene*	<0.050	0.050	10/02/2015	ND	2.08	104	2.00	0.958	
Total Xylenes*	<0.150	0.150	10/02/2015	ND	6.29	105	6.00	0.600	
Total BTEX	<0.300	0.300	10/02/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107	% 85.6-13	7				***************************************		
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	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	10/02/2015	ND	195	97.7	200	1.95	
DRO >C10-C28	15.7	10.0	10/02/2015	ND	214	107	200	1.46	
EXT DRO >C28-C35	12.3	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	101 5	6 47.2-15	7		-				
Surrogate: 1-Chlorooctadecane	101 9	6 52.1-17	6						

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Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

10/07/2015

Sampling Type:

Soil

Project Name:

JHHC SWMF NM-02-0021

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Sample Received By:

Jodi Henson

Project Location:

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

Sample ID: 11 A (3') (H502597-18)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	10/05/2015	ND	2.15	108	2.00	2.40	
Toluene*	<0.050	0.050	10/05/2015	ND	2.10	105	2.00	2.79	
Ethylbenzene*	< 0.050	0.050	10/05/2015	ND	1.82	90.9	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/05/2015	ND	5.85	97.5	6.00	1.29	
Total BTEX	<0.300	0.300	10/05/2015	ND		,			
Surrogate: 4-Bromofluorobenzene (PIL	105	% 85.6-13	7					A	
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	lkg	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	10/02/2015	ND	195	97.7	200	1.95	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	214	107	200	1.46	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	92.3	% 47.2-15	7						and the second s
Surrogate: 1-Chlorooctadecane	91.6	% 52.1-17	6						

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Fax To:

(575) 394-2653

Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

10/07/2015

Sampling Type:

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') (H502597-19)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2015	ND	2.15	108	2.00	2.40	
Toluene*	<0.050	0.050	10/05/2015	ND	2.10	105	2.00	2.79	
Ethylbenzene*	< 0.050	0.050	10/05/2015	ND	1.82	90.9	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/05/2015	ND	5.85	97.5	6.00	1.29	
Total BTEX	<0.300	0.300	10/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1069	6 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	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	10/02/2015	ND	195	97.7	200	1.95	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	214	107	200	1.46	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	94.1 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	93.5 9	52.1-17	6						

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Celeg D. Kreene



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Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

10/07/2015

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 (3') (H502597-20)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2015	ND	2.15	108	2.00	2.40	
Toluene*	<0.050	0.050	10/05/2015	ND	2.10	105	2.00	2.79	
Ethylbenzene*	<0.050	0.050	10/05/2015	ND	1.82	90.9	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/05/2015	ND	5.85	97.5	6.00	1.29	
Total BTEX	<0.300	0.300	10/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	20.0	5.00	10/02/2015	ND	416	104	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	10/02/2015	ND	195	97.7	200	1.95	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	214	107	200	1.46	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	97.0	% 47.2-15	7						
Surrogate: I-Chlorooctadecane	94.0	% 52.1-17	6						

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Fax To:

(575) 394-2653

Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

10/07/2015

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') (H502597-21)

BTEX 8021B	mg/	'kg	Analyze	d By: MS		_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2015	ND	2.15	108	2.00	2.40	
Toluene*	<0.050	0.050	10/05/2015	ND	2.10	105	2.00	2.79	
Ethylbenzene*	<0.050	0.050	10/05/2015	ND	1.82	90.9	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/05/2015	ND	5.85	97.5	6.00	1.29	
Total BTEX	<0.300	0.300	10/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 9	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	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	10/02/2015	ND	195	97.7	200	1.95	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	214	107	200	1.46	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	88.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	88.8	% 52.1-17	6						

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Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

10/07/2015

Sampling Type:

Soil

Project Name:

JHHC SWMF NM-02-0021

Sampling Condition:

Cool & Intact

Project Number:

**NOT GIVEN** 

Project Location:

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

Sample Received By:

Jodi Henson

Sample ID: 11 B - 1 (3') (H502597-22)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2015	ND	2.15	108	2.00	2.40	
Toluene*	<0.050	0.050	10/05/2015	ND	2.10	105	2.00	2.79	
Ethylbenzene*	< 0.050	0.050	10/05/2015	ND	1.82	90.9	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/05/2015	ND	5.85	97.5	6.00	1.29	
Total BTEX	<0.300	0.300	10/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 %	6 85.6-13	7						
Chloride, SM4500CI-B	mg/	mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	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	10/02/2015	ND	195	97.7	200	1.95	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	214	107	200	1.46	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	94.3 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	94.2 9	52.1-17	6						

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Celeg D. Kreene



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Fax To:

(575) 394-2653

Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

10/07/2015

Sampling Type:

Soil

Project Name:

JHHC SWMF NM-02-0021

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Sample Received By:

Jodi Henson

Project Number:
Project Location:

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

Sample ID: 11 C (1') (H502597-23)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2015	ND	2.15	108	2.00	2.40	
Toluene*	<0.050	0.050	10/05/2015	ND	2.10	105	2.00	2.79	
Ethylbenzene*	<0.050	0.050	10/05/2015	ND	1.82	90.9	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/05/2015	ND	5.85	97.5	6.00	1.29	
Total BTEX	<0.300	0.300	10/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 %	6 85.6-13	7				<del></del>		
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP					-	S Constant de la
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	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	10/02/2015	ND	195	97.7	200	1.95	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	214	107	200	1.46	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	99.5 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	101 %	6 52.1-17	6						

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Celey D. Keene



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Fax To:

(575) 394-2653

Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

RTEY 9021R

10/07/2015

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') (H502597-24)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2015	ND	2.15	108	2.00	2.40	
Toluene*	<0.050	0.050	10/05/2015	ND	2.10	105	2.00	2.79	
Ethylbenzene*	<0.050	0.050	10/05/2015	ND	1.82	90.9	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/05/2015	ND	5.85	97.5	6.00	1.29	
Total BTEX	<0.300	0.300	10/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 85.6-13	7						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	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	10/02/2015	ND	195	97.7	200	1.95	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	214	107	200	1.46	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	98.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	97.3	% 52.1-17	6						

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Fax To:

Sampling Date:

09/30/2015

Sampling Type:

Soil

Project Name:

Received:

Reported:

JHHC SWMF NM-02-0021

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

09/30/2015

10/07/2015

Sample Received By:

Jodi Henson

Project Location:

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

Sample ID: 12 A (1') (H502597-25)

BTEX 8021B	mg/	kg	Analyze	ed By: MS	-				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2015	ND	2.15	108	2.00	2.40	
Toluene*	< 0.050	0.050	10/05/2015	ND	2.10	105	2.00	2.79	
Ethylbenzene*	<0.050	0.050	10/05/2015	ND	1.82	90.9	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/05/2015	ND	5.85	97.5	6.00	1.29	
Total BTEX	<0.300	0.300	10/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS		1			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/02/2015	ND	195	97.7	200	1.95	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	214	107	200	1.46	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	93.8	% 47.2-15	7						
Surrogate: I-Chlorooctadecane	92.6	52.1-17	6						

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Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

10/07/2015

Sampling Type:

Soil

Project Name:

DTEV 9021D

JHHC SWMF NM-02-0021

Sampling Condition:

Cool & Intact

Project Number:

NOT GIVEN

Sample Received By:

Jodi Henson

Project Location:

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

Sample ID: 12 A (3') (H502597-26)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2015	ND	2.15	108	2.00	2.40	
Toluene*	<0.050	0.050	10/05/2015	ND	2.10	105	2.00	2.79	
Ethylbenzene*	<0.050	0.050	10/05/2015	ND	1.82	90.9	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/05/2015	ND	5.85	97.5	6.00	1.29	
Total BTEX	<0.300	0.300	10/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 85.6-13	7						1
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	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	10/02/2015	ND	195	97.7	200	1.95	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	214	107	200	1.46	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	101 5	% 47.2-15	7				horalists of		
Surrogate: 1-Chlorooctadecane	100 9	52.1-17	6						

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Fax To:

(575) 394-2653

Analyzed By: MS

Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

RTFY 8021B

10/07/2015

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') (H502597-27)

B1EX 8021B	mg/	кд	Analyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2015	ND	2.15	108	2.00	2.40	
Toluene*	<0.050	0.050	10/05/2015	ND	2.10	105	2.00	2.79	
Ethylbenzene*	< 0.050	0.050	10/05/2015	ND	1.82	90.9	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/05/2015	ND	5.85	97.5	6.00	1.29	
Total BTEX	<0.300	0.300	10/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 9	% 85.6-137	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	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	10/02/2015	ND	195	97.7	200	1.95	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	214	107	200	1.46	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	103 9	6 47.2-157	7						
Surrogate: 1-Chlorooctadecane	103 9	52.1-176	5						

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Fax To:

o: (575) 394-2653

Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

DTEV 0031B

10/07/2015

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') (H502597-28)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2015	ND	2.15	108	2.00	2.40	
Toluene*	< 0.050	0.050	10/05/2015	ND	2.10	105	2.00	2.79	
Ethylbenzene*	< 0.050	0.050	10/05/2015	ND	1.82	90.9	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/05/2015	ND	5.85	97.5	6.00	1.29	
Total BTEX	<0.300	0.300	10/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 85.6-13	7						, M. 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	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	10/02/2015	ND	195	97.7	200	1.95	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	214	107	200	1.46	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	96.2	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	95.3	% 52.1-17	6						

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Fax To:

(575) 394-2653

Analyzed By: MS

Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

RTEY SOOTS

10/07/2015

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') (H502597-29)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2015	ND	2.15	108	2.00	2.40	
Toluene*	<0.050	0.050	10/05/2015	ND	2.10	105	2.00	2.79	
Ethylbenzene*	< 0.050	0.050	10/05/2015	ND	1.82	90.9	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/05/2015	ND	5.85	97.5	6.00	1.29	
Total BTEX	<0.300	0.300	10/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 85.6-13	7						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	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	10/02/2015	ND	195	97.7	200	1.95	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	214	107	200	1.46	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	96.0	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	93.8	% 52.I-17	6						

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Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

10/07/2015

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 (3') (H502597-30)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2015	ND	2.15	108	2.00	2.40	
Toluene*	< 0.050	0.050	10/05/2015	ND	2.10	105	2.00	2.79	
Ethylbenzene*	< 0.050	0.050	10/05/2015	ND	1.82	90.9	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/05/2015	ND	5.85	97.5	6.00	1.29	
Total BTEX	<0.300	0.300	10/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107	% 85.6-13	7					· · · · · · · · · · · · · · · · · · ·	et estate
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	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	10/02/2015	ND	195	97.7	200	1.95	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	214	107	200	1.46	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	100	% 47.2-15	7				the state of the s		tarkerindigastin och mystlik eri detalleta ettill filmsycken E166
Surrogate: 1-Chlorooctadecane	95.3	% 52.1-17	6						

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

Fax To:

(575) 394-2653

Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

10/07/2015

Sampling Type:

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') (H502597-31)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2015	ND	2.15	108	2.00	2.40	
Toluene*	<0.050	0.050	10/05/2015	ND	2.10	105	2.00	2.79	
Ethylbenzene*	<0.050	0.050	10/05/2015	ND	1.82	90.9	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/05/2015	ND	5.85	97.5	6.00	1.29	
Total BTEX	<0.300	0.300	10/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	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	10/02/2015	ND	195	97.7	200	1.95	
DRO >C10-C28	<10.0	10.0	10/02/2015	ND	214	107	200	1.46	
EXT DRO >C28-C35	<10.0	10.0	10/02/2015						
Surrogate: 1-Chlorooctane	100 %	% 47.2-15	7						
Surrogate: I-Chlorooctadecane	97.4	% 52.1-17	6						

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Received:

09/30/2015

Sampling Date:

09/30/2015

Reported:

10/07/2015

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 (2') (H502597-32)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2015	ND	2.15	108	2.00	2.40	
Toluene*	<0.050	0.050	10/05/2015	ND	2.10	105	2.00	2.79	
Ethylbenzene*	< 0.050	0.050	10/05/2015	ND	1.82	90.9	2.00	2.95	
Total Xylenes*	<0.150	0.150	10/05/2015	ND	5.85	97.5	6.00	1.29	
Total BTEX	<0.300	0.300	10/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105	% 85.6-13	7						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<5.00	5.00	10/02/2015	ND	416	104	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	10/05/2015	ND	189	94.3	200	0.244	
DRO >C10-C28	<10.0	10.0	10/05/2015	ND	205	103	200	2.42	
EXT DRO >C28-C35	<10.0	10.0	10/05/2015						
Surrogate: 1-Chlorooctane	99.3	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	96.7	% 52.1-17	6						

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any dalm arising, whether based in contract or tort, shall be fimited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed wahed unless made in writing and received by Cardinal 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 subsidiaries, 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.



#### **Notes and Definitions**

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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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any dalm arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for nepligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal 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 use, or loss of profits incurred by client, its subsidiaries, 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.

Celey D. Keene

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LAB USE ONLY HSOZS97	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR	SLUDGE	HCL	HNO3	NaHSO.	H ₂ SO ₄	CE	None		DATE	TIME	MTBE 8021B/602	BTEX 8021 B	TPH 8015M (Extended to C35 - ORO)	PAH 8270C	RCRA Metals: Ag As	WOCC Metals: At Cu Fe Min Zn	TCLP Volatiles	TCLP Semi Volatiles	ICLY Pesticides	3C/MS Vol. 8260B		Moisture Content		-	Total Dissolved Sol	SPI P Chloride	Turn Around Time - 24 Hours
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LAB USE ONLY	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR	SLUDGE	HCL	HNO ₃	NaHSO ₄	H ₂ SO ₄	ICE	None		DATE	TIME	MTBE 8021B/602	BTEX 8021 B	TPH 8015M (Extended to C35 - ORO)	PAH 8270C	RCRA Metals: Ag /	7	TCLP Volatiles	TOI P Pesticides	RCI Calladas	GC/MS Vol. 8260B/624	GC/MS Semi, Vol.	Cations (Ca, Mg. K.	Anions (Cl. SO4, C		Chlorides (SM4500 B or 300.1)	SPLP Chloride  Turn Around Time ~ 24 Hours
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12	10B-1 (3')	G	1		X							X			9/30/15	1050	T	X	X					T	T	T				П	X	
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					TAN	RIX		P		ETH		IVE		SAMPL	ING			nded k		As Ba	Cu Fe Mn	0	50		8260B/624	8270	Na)	CO3. HCO3, T-ALK)	Solids (SM2540C)	0 B or	- 24
LAB USE ONLY	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR	HCI	HNO	NaHSO,	H ₂ SO ₄	ICE	None		DATE	TIME	MTBE 8021B/602	BTEX 8021 B	TPH 8015M (Extended to C35 - ORO)	PAH 8270C	RCRA Metals: Ag	WQCC Metals: Al	TCLP Volatiles	TOLP Destinides	RCI resucues	GC/MS Vol. 8260	GC/MS Semi, Vol. 8270C/625	Moisture Content	Anions (Cl. SO4.	Total Dissolved S	Chlorides (SM4500 B or 300.1)	SPLP Chloride Tum Around Time ~ 24 Haurs
21	11B-1 (1')	C	1		X		T	T			X			9/30/15	1200	T	X	X					T		П					X	
22	11B-1 (3')	G	1	$\Box$	X		T			T	X			9/30/15	1205		X							T	П			T		X	
	11C (1')	C	1	$\Box$	X		1	T	T	1	X	-	П	9/30/15	1145		X						1		П			T		X	
24	11C (3')	G	1	$\Box$	X		+	1	1		X		П	9/30/15	1150	T	X							T	П	T		T		X	
25		C	1		X		1	+	T	T	X	***************************************	П	9/30/15	1340	T	X					T			П					X	
26	12A (3')	G	1	T	X		+	+	1	T	X	-		9/30/15	(345	T	X					1	$\top$		T			1		X	
27	12A-1 (1')	C	1	1	X		1	$\top$	$\top$	1	X			9/30/15	1355	T	X					1	T	T	T			T		X	
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89	12B (1')	C	1	T	X		1	1	1		X			9/30/15	1330		X					1		T	П	$\sqcap$	1			X	
30	12B (3')	G	1		X		1	T	1	1	X			9/30/15	1335		X					1	1	T		$\Box$				X	
31	12C (1')	C	1	H	X			+	1		X			9/30/15	1315	1	X				$\Box$	1	1	T				T		X	
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Sampler -	UPS - Bus - Other:		No	Ť	No				(	1	74	-																			

#54



January 21, 2015

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 12/29/14 14:10.

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 <a href="https://www.tceq.texas.gov/field/qa/lab-accred-certif.html">www.tceq.texas.gov/field/qa/lab-accred-certif.html</a>.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colillert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celecy D. Keine

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 21-Jan-15 13:51

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
1 A (1')	H403939-01	Soil	29-Dec-14 09:00	29-Dec-14 14:10
1 A (3')	H403939-02	Soil	29-Dec-14 09:05	29-Dec-14 14:10
1 A-1 (1')	H403939-03	Soil	26-Dec-14 09:15	29-Dec-14 14:10
1 A-1 (3')	H403939-04	Soil	29-Dec-14 09:20	29-Dec-14 14:10
1 B (1')	H403939-05	Soil	29-Dec-14 10:00	29-Dec-14 14:10
1 B (3')	H403939-06	Soil	29-Dec-14 10:05	29-Dec-14 14:10
1 C (1')	H403939-07	Soil	29-Dec-14 10:20	29-Dec-14 14:10
1 C (3')	H403939-08	Soil	29-Dec-14 10:25	29-Dec-14 14:10
10 B (1')	H403939-09	Soil	29-Dec-14 11:20	29-Dec-14 14:10
10 B (3')	H403939-10	Soil	29-Dec-14 11:25	29-Dec-14 14:10
10 B - 1 (1')	H403939-11	Soil	29-Dec-14 11:30	29-Dec-14 14:10
10 B - 1 (3')	H403939-12	Soil	29-Dec-14 11:35	29-Dec-14 14:10
10 C (1')	H403939-13	Soil	29-Dec-14 10:40	29-Dec-14 14:10
10 C (3')	H403939-14	Soil	29-Dec-14 10:45	29-Dec-14 14:10
10 C - 1 (1')	H403939-15	Soil	29-Dec-14 10:50	29-Dec-14 14:10
10 C - 1 (3')	H403939-16	Soil	29-Dec-14 10:55	29-Dec-14 14:10
11 A (1')	H403939-17	Soil	29-Dec-14 12:40	29-Dec-14 14:10
11 A (3')	H403939-18	Soil	29-Dec-14 12:45	29-Dec-14 14:10
11 B (1')	H403939-19	Soil	29-Dec-14 11:55	29-Dec-14 14:10
11 B (3')	H403939-20	Soil	29-Dec-14 12:00	29-Dec-14 14:10
11 B - 1 (1')	H403939-21	Soil	29-Dec-14 12:05	29-Dec-14 14:10
11 B - 1 (3')	H403939-22	Soil	29-Dec-14 12:10	29-Dec-14 14:10
11 C (1')	H403939-23	Soil	29-Dec-14 12:20	29-Dec-14 14:10
11 C (3')	H403939-24	Soil	29-Dec-14 12:25	29-Dec-14 14:10
12 A (1')	H403939-25	Soil	29-Dec-14 13:05	29-Dec-14 14:10
12 A (3')	H403939-26	Soil	29-Dec-14 13:10	29-Dec-14 14:10
12A - 1 (1')	H403939-27	Soil	29-Dec-14 13:15	29-Dec-14 14:10

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JOHN H. HENDRIX CORPORATION P. O. BOX 3040 MIDLAND TX, 79702		Project Number: Project Manager:	JHHC SWMF NM-02-0021 JHHC CAROLYN DORAN HAYNES (575) 394-2653	Reported: 21-Jan-15 13:51
12 A - 1 (3')	H403939-28	Soil	29-Dec-14 13:20	29-Dec-14 14:10
12 B (1')	H403939-29	Soil	29-Dec-14 13:30	29-Dec-14 14:10
12 B (3')	H403939-30	Soil	29-Dec-14 13:35	29-Dec-14 14:10
12 C (1')	H403939-31	Soil	29-Dec-14 13:50	29-Dec-14 14:10
12 C (3')	H403939-32	Soil	29-Dec-14 14:00	29-Dec-14 14:10

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported:

21-Jan-15 13:51

# 1 A (1') H403939-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Chloride	<4.00		4.00	mg/kg	1	4123010	AP	31-Dec-14	4500-C1-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	<0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		94.2 %	61-	154	4123102	MS	31-Dec-14	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			90.9 %	47.2	-157	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			87.7 %	52.1	-176	4123013	MS	31-Dec-14	8015B	

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Reported:

21-Jan-15 13:51



# Analytical Results For:

JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

1 A (3') H403939-02 (Soil)

Analyte	Result	MDL Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	ories					
Inorganic Compounds									
Alkalinity, Bicarbonate	117	20.0	mg/kg	4	4120308	AP	12-Jan-15	310.1M	
Alkalinity, Carbonate	<4.00	4.00	mg/kg	4	4120308	AP	12-Jan-15	310.1M	
Chloride	20.0	4.00	mg/kg	1	4123010	AP	31-Dec-14	4500-C1-B	
Conductivity	234	0.250	uS/cm	1	5010607	AP	06-Jan-15	120.1	
H*	7.89	0.100	pH Units	1	5010609	AP .	06-Jan-15	9045	
Sulfate	244	200	mg/kg	20	5011202	AP	12-Jan-15	375.4	
Alkalinity, Total	96.0	4.00	mg/kg	4	4120308	AP	12-Jan-15	310.1M	
Volatile Organic Compounds	by EPA Method	8021							
Benzene*	< 0.050	0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)	95.5 %	61-	154	4123102	MS	31-Dec-14	8021B	
Petroleum Hydrocarbons by (	GC FID	1							
GRO C6-C10	<10.0	10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
ORO >C10-C28	<10.0	10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane		87.5 %	47.2-	157	4123013	MS	31-Dec-14	8015B	
urrogate: 1-Chlorooctadecane		87.6 %	52.1-	176	4123013	MS	31-Dec-14	8015B	
		Green Ana	lytical Lab	oratories					
General Chemistry									
% Dry Solids	95.4		%	1	B501056	LLG	08-Jan-15	EPA160.3	Н

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 21-Jan-15 13:51

Tax 10. (3/3) 331 203.

# 1 A (3') H403939-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Labo	oratories					
Total Metals by ICP										
Aluminum	3480	1.52	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Calcium	425	3.14	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Copper	1.75	0.603	2.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
ron	4250	1.42	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Magnesium	605	7.02	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Manganese	34.6	0.144	0.500	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Potassium	816	80.1	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Sodium	165	87.5	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Zinc	8.30	0.699	1.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Total Metals by ICPMS										
Arsenic	1.28	0.202	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Barium	17.7	0.119	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Cadmium	< 0.141	0.141	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Chromium	3.69	0.659	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Lead	2.80	0.0934	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Selenium	< 0.448	0.448	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Silver	< 0.0916	0.0916	0.100	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Total Mercury by CVAA										
Mercury	< 0.0191	0.0191	0.102	mg/kg dry	485	B501102	JGS	13-Jan-15	EPA7471	

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JOHN H. HENDRIX CORPORATION

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

Reported: 21-Jan-15 13:51

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

1 A-1 (1') H403939-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds									manager warm.	
Chloride	<4.00		4.00	mg/kg	1	4123010	AP	31-Dec-14	4500-СІ-В	
Volatile Organic Compounds	by EPA Method	8021			700					
Benzene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		94.5 %	61-	154	4123102	MS	31-Dec-14	8021B	
Petroleum Hydrocarbons by G	C FID						100	1		
GRO C6-C10	<10.0		10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			87.1 %	47.2	-157	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			86.9 %	52.1	-176	4123013	MS	31-Dec-14	8015B	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 21-Jan-15 13:51

1 A-1 (3') H403939-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	156		20.0	mg/kg	4	4120308	AP	12-Jan-15	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	4	4120308	AP	12-Jan-15	310.1M	
Chloride	<4.00		4.00	mg/kg	1	4123010	AP	31-Dec-14	4500-CI-B	
Conductivity	123		0.250	uS/cm	1	5010607	AP	06-Jan-15	120.1	
pH*	7.76		0.100	pH Units	1	5010609	AP	06-Jan-15	9045	
Sulfate	575		200	mg/kg	20	5011202	AP	12-Jan-15	375.4	
Alkalinity, Total	128		4.00	mg/kg	4	4120308	AP	12-Jan-15	310.1M	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			92.9 %	61-	54	4123102	MS	31-Dec-14	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			86.8 %	47.2-	157	4123013	MS	31-Dec-14	8015B	
Surrogate: I-Chlorooctadecane			85.7 %	52.1-	176	4123013	MS	31-Dec-14	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	95.0			%	1	B501056	LLG	08-Jan-15	EPA160.3	I

General Chemistry								
% Dry Solids	95.0	%	1	B501056	LLG	08-Jan-15	EPA160.3	H1

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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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

1 A-1 (3') H403939-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Labo	oratories					
Total Metals by ICP										2 _
Aluminum	4930	1.52	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Calcium	643	3.14	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Copper	1.55	0.603	2.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
fron	5210	1.42	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Magnesium	725	7.02	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Manganese	37.5	0.144	0.500	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Potassium	1030	80.1	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Sodium	131	87.5	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	1
Zinc	10.8	0.699	1.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Total Metals by ICPMS									1	
Arsenic	1.47	0.202	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Barium	21.6	0.119	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Cadmium	< 0.141	0.141	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Chromium	4.49	0.659	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Lead	3.20	0.0934	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Selenium	< 0.448	0.448	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Silver	< 0.0916	0.0916	0.100	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Total Mercury by CVAA										
Mercury	< 0.0200	0.0200	0.106	mg/kg dry	505	B501102	JGS	13-Jan-15	EPA7471	

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JOHN H. HENDRIX CORPORATION P. O. BOX 3040

Project: JHHC SWMF NM-02-0021

Reported:

MIDLAND TX, 79702

Project Number: JHHC

21-Jan-15 13:51

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

1 B (1') H403939-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories	-	-			
Inorganic Compounds										
Chloride	<4.00		4.00	mg/kg	1	4123010	AP	31-Dec-14	4500-CI-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		93.0 %	61-	154	4123102	MS	31-Dec-14	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			83.6 %	47.2	-157	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			84.4 %	52.1	-176	4123013	MS	31-Dec-14	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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

1 B (3') H403939-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories	TI				
Inorganic Compounds										
Alkalinity, Bicarbonate	352		20.0	mg/kg	4	4120308	AP	12-Jan-15	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	4	4120308	AP	12-Jan-15	310.1M	
Chloride	<4.00		4.00	mg/kg	1	4123010	AP	31-Dec-14	4500-CI-B	
Conductivity	290		0.250	uS/cm	1	5010607	AP	06-Jan-15	120.1	
pH*	8.09		0.100	pH Units	1	5010609	AP	06-Jan-15	9045	
Sulfate	242		100	mg/kg	10	5011202	AP	12-Jan-15	375.4	
Alkalinity, Total	288		4.00	mg/kg	4	4120308	AP	12-Jan-15	310.1M	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			93.4 %	61-	154	4123102	MS	31-Dec-14	8021B	
Petroleum Hydrocarbons by GC	FID				- 1					
GRO C6-C10	<10.0		10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			90.3 %	47.2-	157	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			87.6 %	52.1-	176	4123013	MS	31-Dec-14	8015B	
			Green Analy	ytical Lab	oratories					
General Chemistry									****	
% Dry Solids	90.1			%	1	B501056	LLG	08-Jan-15	EPA160.3	Н

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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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

1 B (3') H403939-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	ilytical Labo	oratories					
Total Metals by ICP										
Aluminum	9940	1.52	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Calcium	1920	3.14	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Copper	2.32	0.603	2.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Iron	8980	1.42	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Magnesium	1620	7.02	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Manganese	47.3	0.144	0.500	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Potassium	2010	80.1	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Sodium	214	87.5	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Zinc	19.3	0.699	1.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Total Metals by ICPMS										
Arsenic	2.71	0.202	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Barium	53.5	0.119	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Cadmium	< 0.141	0.141	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Chromium	7.27	0.659	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Lead	5.40	0.0934	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Selenium	< 0.448	0.448	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Silver	< 0.0916	0.0916	0.100	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Total Mercury by CVAA										
Mercury	< 0.0209	0.0209	0.111	mg/kg dry	500	B501102	JGS	13-Jan-15	EPA7471	

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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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

1 C (1')

H403939-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										0 - 1 - 1
Chloride	<4.00		4.00	mg/kg	1	4123010	AP	31-Dec-14	4500-CI-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Surrogate: 4-Bromofluorobenzene (P11	0)		93.3 %	61-	154	4123102	MS	31-Dec-14	8021B	
Petroleum Hydrocarbons by	GC FID		1							,
GRO C6-C10	<10.0		10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			83.8 %	47.2	-157	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			82.8 %	52.1	-176	4123013	MS	31-Dec-14	8015B	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 21-Jan-15 13:51

# 1 C (3') H403939-08 (Soil)

Analyte	Result MD	Reporting L Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	ories					
Inorganic Compounds									
Alkalinity, Bicarbonate	137	20.0	mg/kg	4	4120308	AP	12-Jan-15	310.1M	
Alkalinity, Carbonate	<4.00	4.00	mg/kg	4	4120308	AP	12-Jan-15	310.1M	
Chloride	<4.00	4.00	mg/kg	1	4123010	AP	31-Dec-14	4500-C1-B	
Conductivity	168	0.250	uS/cm	1	5010607	AP	06-Jan-15	120.1	
pH*	7.98	0.100	pH Units	1	5010609	AP	06-Jan-15	9045	
Sulfate	75.0	40.0	mg/kg	4	5011202	AP	12-Jan-15	375.4	
Alkalinity, Total	112	4.00	mg/kg	4	4120308	AP	12-Jan-15	310.1M	
Volatile Organic Compounds	by EPA Method 8021								100
Benzene*	< 0.050	0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)	92.5 %	61-1	154	4123102	MS	31-Dec-14	8021B	
Petroleum Hydrocarbons by G	C FID								
GRO C6-C10	<10.0	10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0	10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane		90.0 %	47.2-	157	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane		89.0 %	52.1-	176	4123013	MS	3I-Dec-I4	8015B	
		Green Anal	ytical Lab	oratories					
General Chemistry									
% Dry Solids	92.9		%	1	B501056	LLG	08-Jan-15	EPA160.3	H

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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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

1 C (3') H403939-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Labo	oratories					
Total Metals by ICP										
Aluminum	3370	1.52	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Calcium	831	3.14	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Copper	2.33	0.603	2.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
ron	4290	1.42	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Magnesium	568	7.02	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Manganese	53.7	0.144	0.500	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Potassium	844	80.1	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Sodium	<87.5	87.5	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Line	9.62	0.699	1.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Total Metals by ICPMS									14 11	
Arsenic	1.03	0.202	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Barium	23.3	0.119	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Cadmium	< 0.141	0.141	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Chromium	3.62	0.659	1.00	mg/kg dry	1000 、	B501096	JGS	12-Jan-15	6020 A	
ead	2.87	0.0934	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Selenium	< 0.448	0.448	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
ilver	< 0.0916	0.0916	0.100	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Total Mercury by CVAA										
Mercury	< 0.0192	0.0192	0.102	mg/kg dry	475	B501102	JGS	13-Jan-15	EPA7471	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 21-Jan-15 13:51

10 B (1') H403939-09 (Soil)

Analyte	Result	MDL Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	ories					
Inorganic Compounds									
Chloride	<4.00	4.00	mg/kg	1	4123105	AP	05-Jan-15	4500-CI-B	
Volatile Organic Compounds by	EPA Method	8021							
Benzene*	< 0.050	0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		93.1 %	61-	154	4123102	MS	3I-Dec-I4	8021B	
Petroleum Hydrocarbons by Go	CFID								
GRO C6-C10	<10.0	10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0	10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane		88.7 %	47.2	-157	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane		87.3 %	52.1	-176	4123013	MS	31-Dec-14	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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

10 B (3') H403939-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										11111/
Alkalinity, Bicarbonate	332		20.0	mg/kg	4	4120308	AP	12-Jan-15	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	4	4120308	AP	12-Jan-15	310.1M	
Chloride	<4.00		4.00	mg/kg	1	4123105	AP	05-Jan-15	4500-CI-B	
Conductivity	242		0.250	uS/cm	1	5010607	AP	06-Jan-15	120.1	
pH*	7.42		0.100	pH Units	1	5010609	AP	06-Jan-15	9045	
Sulfate	<40.0		40.0	mg/kg	4	5011202	AP	12-Jan-15	375.4	
Alkalinity, Total	272		4.00	mg/kg	4	4120308	AP	12-Jan-15	310.1M	
Volatile Organic Compounds l	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Surrogate: 4-Bromofluorobenzene (P1D)	)		92.4 %	61-	154	4123102	MS	31-Dec-14	8021B	*
Petroleum Hydrocarbons by G	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane		,	88.2 %	47.2	157	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			86.3 %	52.1	176	4123013	MS	31-Dec-14	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	91.3			%	1	B501056	LLG	08-Jan-15	EPA160.3	H

General Chemistry								
% Dry Solids	91.3	%	1	B501056	LLG	08-Jan-15	EPA160.3	Hl

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported:

21-Jan-15 13:51

10 B (3') H403939-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Labo	oratories					
Total Metals by ICP										
Aluminum	10000	1.52	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Calcium	2560	3.14	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Copper	2.78	0.603	2.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
ron	8750	1.42	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Magnesium	1540	7.02	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Manganese	55.5	0.144	0.500	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Potassium	1840	80.1	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Sodium	<87.5	87.5	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Zinc	21.9	0.699	1.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Total Metals by ICPMS										
Arsenic	2.89	0.202	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Barium	45.6	0.119	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Cadmium	< 0.141	0.141	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Chromium	7.42	0.659	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Lead	4.99	0.0934	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Selenium	< 0.448	0.448	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Silver	< 0.0916	0.0916	0.100	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Total Mercury by CVAA								_		
Mercury	< 0.0216	0.0216	0.115	mg/kg dry	525	B501102	JGS	13-Jan-15	EPA7471	

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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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

10 B - 1 (1') H403939-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	<4.00		4.00	mg/kg	1	4123105	AP	05-Jan-15	4500-CI-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123102	MS	31-Dec-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			91.8 %	61-	154	4123102	MS	31-Dec-14	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			91.2 %	47.2	-157	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			88.5 %	52.1	-176	4123013	MS	31-Dec-14	8015B	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

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10 B - 1 (3') H403939-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	273		20.0	mg/kg	4	4120308	AP	12-Jan-15	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	4	4120308	AP	12-Jan-15	310.1M	
Chloride	<4.00		4.00	mg/kg	1	4123105	AP	05-Jan-15	4500-Cl-B	
Conductivity	162		0.250	uS/cm	1	5010607	AP	06-Jan-15	120,1	
pH*	7.73		0.100	pH Units	1	5010609	AP	06-Jan-15	9045	
Sulfate	<40.0		40.0	mg/kg	4	5011202	AP	12-Jan-15	375.4	
Alkalinity, Total	224		4.00	mg/kg	4	4120308	AP	12-Jan-15	310.1M	
Volatile Organic Compounds by I	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123107	MS	31-Dec-14	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123107	MS	31-Dec-14	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123107	MS	31-Dec-14	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123107	MS	31-Dec-14	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123107	MS	31-Dec-14	8021B	walled and a
Surrogate: 4-Bromofluorobenzene (PID)			88.6 %	61-	154	4123107	MS	31-Dec-14	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			87.2 %	47.2	157	4123013	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			84.7 %	52.1	176	4123013	MS	31-Dec-14	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	89.0			%	1	B501056	LLG	08-Jan-15	EPA160.3	Н

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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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

10 B - 1 (3') H403939-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Labo	oratories					
Total Metals by ICP									1 100-1	
Aluminum	7740	1.52	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Calcium	47900	31.4	1000	mg/kg dry	1000	B501072	JGS	09-Jan-15	EPA6010 B	
Copper	3.08	0.603	2.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Iron	6720	1.42	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Magnesium	1680	7.02	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Manganese	57.8	0.144	0.500	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Potassium	1540	80.1	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Sodium	<87.5	87.5	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Zinc	25.2	0.699	1.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Total Metals by ICPMS										
Arsenic	2.52	0.202	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Barium	72.2	0.119	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Cadmium	< 0.141	0.141	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Chromium	5.16	0.659	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Lead	4.02	0.0934	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Selenium	< 0.448	0.448	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Silver	< 0.0916	0.0916	0.100	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Total Mercury by CVAA										
Mercury	< 0.0216	0.0216	0.115	mg/kg dry	510	B501102	JGS	13-Jan-15	EPA7471	

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

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Reported:

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10 C (1') H403939-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	<4.00		4.00	mg/kg	1	4123105	AP	05-Jan-15	4500-C1-B	
Volatile Organic Compounds b	v EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123107	MS	31-Dec-14	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123107	MS	31-Dec-14	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123107	MS	31-Dec-14	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123107	MS	31-Dec-14	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123107	MS	31-Dec-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			88.2 %	61-	154	4123107	MS	31-Dec-14	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			93.7 %	47.2	-157	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			79.7 %	52.1	-176	4123101	MS	31-Dec-14	8015B	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

10 C (3') H403939-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	234		20.0	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Chloride	<4.00		4.00	mg/kg	1	4123105	AP	05-Jan-15	4500-C1-B	
Conductivity	228		0.250	uS/cm	1	5010607	AP	06-Jan-15	120.1	
pH*	7.63		0.100	pH Units	1	5010609	AP	06-Jan-15	9045	
Sulfate	45.0		40.0	mg/kg	4	5011202	AP	12-Jan-15	375.4	
Alkalinity, Total	192		4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123107	MS	31-Dec-14	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123107	MS	31-Dec-14	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123107	MS	31-Dec-14	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123107	MS	31-Dec-14	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123107	MS	31-Dec-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			89.5 %	61-	154	4123107	MS	31-Dec-14	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			93.1 %	47.2	157	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			81.0 %	52.1-	176	4123101	MS	31-Dec-14	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	92.8			%	1	B501056	LLG	08-Jan-15	EPA160.3	Н

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 21-Jan-15 13:51

10 C (3') H403939-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Labo	oratories					
Total Metals by ICP										
Aluminum	7150	1.52	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Calcium	8410	3.14	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Copper	2.56	0.603	2.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
ron	6370	1.42	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Magnesium	1110	7.02	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Manganese	53.2	0.144	0.500	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Potassium	1300	80.1	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Sodium	<87.5	87.5	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Zinc	17.3	0.699	1.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Total Metals by ICPMS										
Arsenic	1.76	0.202	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Barium	37.9	0.119	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Cadmium	< 0.141	0.141	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Chromium	5.31	0.659	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Lead	4.16	0.0934	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Selenium	< 0.448	0.448	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Silver	< 0.0916	0.0916	0.100	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Total Mercury by CVAA										
Mercury	< 0.0209	0.0209	0.111	mg/kg dry	515	B501102	JGS	13-Jan-15	EPA7471	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

10 C - 1 (1') H403939-15 (Soil)

Analyte	Result MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	<4.00	4.00	mg/kg	1	4123105	AP	05-Jan-15	4500-Cl-B	
Volatile Organic Compounds I	by EPA Method 8021								
Benzene*	< 0.050	0.050	mg/kg	50	4123107	MS	31-Dec-14	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	4123107	MS	31-Dec-14	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	4123107	MS	31-Dec-14	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	4123107	MS	31-Dec-14	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	4123107	MS	31-Dec-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		89.0 %	61-1	154	4123107	MS	31-Dec-14	8021B	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Petroleum Hydrocarbons by G	GC FID								
GRO C6-C10	<10.0	10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0	10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane		93.9 %	47.2-	157	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane		101 %	52.1-	176	4123101	MS	31-Dec-14	8015B	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

10 C - 1 (3') H403939-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Note
			Cardina	l Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	97.6		20.0	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Chloride	<4.00		4.00	mg/kg	1	4123105	AP	05-Jan-15	4500-C1-B	
Conductivity	142		0.250	uS/cm	1	5010607	AP	06-Jan-15	120.1	
pH*	7.23		0.100	pH Units	1	5010609	AP	06-Jan-15	9045	
Sulfate	427		100	mg/kg	10	5011202	AP	12-Jan-15	375.4	
Alkalinity, Total	80.0		4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Volatile Organic Compounds I	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		91.4 %	61-1	54	4123107	MS	01-Jan-15	8021B	
Petroleum Hydrocarbons by G	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			96.8 %	47.2-	157	4123101	MS	31-Dec-14	8015B	
Surrogate: I-Chlorooctadecane			103 %	52.1-	176	4123101	MS	31-Dec-14	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry				0/		Denines	110		EDA I CO 2	
% Dry Solids	92.8			%	1	B501056	LLG	08-Jan-15	EPA160.3	F

General Chemistry								
% Dry Solids	92.8	%	1	B501056	LLG	08-Jan-15	EPA160.3	H1

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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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

10 C - 1 (3') H403939-16 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	alytical Lab	oratories					
Total Metals by ICP									-	
Aluminum	6350	1.52	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Calcium	894	3.14	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Copper	1.69	0.603	2.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Iron	6280	1.42	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Magnesium	877	7.02	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Manganese	54.8	0.144	0.500	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Potassium	1090	80.1	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Sodium	<87.5	87.5	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Zinc	14.0	0.699	1.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Total Metals by ICPMS		-			-					
Arsenic	1.45	0.202	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Barium	29.3	0.119	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Cadmium	< 0.141	0.141	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Chromium	4.81	0.659	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Lead	3.89	0.0934	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Selenium	< 0.448	0.448	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Silver	< 0.0916	0.0916	0.100	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Total Mercury by CVAA										
Mercury	< 0.0192	0.0192	0.102	mg/kg dry	475	B501102	JGS	13-Jan-15	EPA7471	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported:

21-Jan-15 13:51

11 A (1') H403939-17 (Soil)

Analyte	Result MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	<4.00	4.00	mg/kg	1	4123105	AP	05-Jan-15	4500-C1-B	
Volatile Organic Compounds b	y EPA Method 8021						_		
Benzene*	< 0.050	0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total BTEX	< 0.300	0.300	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		89.2 %	61-1	154	4123107	MS	01-Jan-15	8021B	
Petroleum Hydrocarbons by G	C FID								
GRO C6-C10	<50.0	50.0	mg/kg	5	4123101	MS	31-Dec-14	8015B	
DRO >C10-C28	<50.0	50.0	mg/kg	5	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane		101 %	47.2-	157	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane		107 %	52.1-	176	4123101	MS	31-Dec-14	8015B	

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21-Jan-15 13:51



# Analytical Results For:

JOHN H. HENDRIX CORPORATION

P. O. BOX 3040

MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

11 A (3') H403939-18 (Soil)

Analyte	Result	MDL Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	ories					
Inorganic Compounds						_			
Alkalinity, Bicarbonate	97.0	20.0	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Alkalinity, Carbonate	<4.00	4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Chloride	<4.00	4.00	mg/kg	1	4123105	AP	05-Jan-15	4500-Cl-B	
Conductivity	424	0.250	uS/cm	1	5010608	AP	06-Jan-15	120.1	
pH*	7.02	0.100	pH Units	1	5010609	AP	06-Jan-15	9045	
Sulfate	230	100	mg/kg	10	5011202	AP	12-Jan-15	375.4	
Alkalinity, Total	80.0	4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Volatile Organic Compounds b	y EPA Method	8021							
Benzene*	< 0.050	0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Toluene*	< 0.050	0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Ethylbenzene*	< 0.050	0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total Xylenes*	< 0.150	0.150	mg/kg	50	4123107	MS	01-Jan-15	8021B	
lotal BTEX	< 0.300	0.300	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		91.6%	61-	154	4123107	MS	01-Jan-15	8021B	
Petroleum Hydrocarbons by G	C FID								
GRO C6-C10	<10.0	10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0	10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane		92.1 %	47.2	-157	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane		93.0 %	52.1	-176	4123101	MS	31-Dec-14	8015B	
		Green Ana	lytical Lab	oratories					
General Chemistry									
% Dry Solids	93.9		%	1	B501056	LLG	08-Jan-15	EPA160.3	I

General Chemistry								
% Dry Solids	93.9	%	1	B501056	LLG	08-Jan-15	EPA160.3	HI

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 21-Jan-15 13:51

11 A (3') H403939-18 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Labo	oratories					
Total Metals by ICP										
Aluminum	6720	1.52	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Calcium	936	3.14	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Copper	2.48	0.603	2.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
ron	6880	1.42	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Magnesium	923	7.02	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Manganese	68.8	0.144	0.500	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Potassium	1320	80.1	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Sodium	165	87.5	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Zinc	15.2	0.699	1.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Total Metals by ICPMS										
Arsenic	1.66	0.202	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Barium	31.8	0.119	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Cadmium	< 0.141	0.141	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Chromium	5.50	0.659	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Lead	5.04	0.0934	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Selenium	< 0.448	0.448	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Silver	< 0.0916	0.0916	0.100	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Total Mercury by CVAA										
Mercury	< 0.0194	0.0194	0.103	mg/kg dry	485	B501102	JGS	13-Jan-15	EPA7471	

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21-Jan-15 13:51



## Analytical Results For:

JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

11 B (1') H403939-19 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Labora	tories					
Inorganic Compounds										
Chloride	<4.00		4.00	mg/kg	1	4123105	AP	05-Jan-15	4500-C1-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		89.5 %	61-	154	4123107	MS	01-Jan-15	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			89.3 %	47.2	-157	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			83.1 %	52.1	-176	4123101	MS	31-Dec-14	8015B	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported:

21-Jan-15 13:51

11 B (3') H403939-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
	///		Cardina	ıl Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	97.0		20.0	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Chloride	<4.00		4.00	mg/kg	1	4123105	AP	05-Jan-15	4500-CI-B	
Conductivity	101		0.250	uS/cm	1	5010608	AP	06-Jan-15	120.1	
pH*	7.53		0.100	pH Units	1	5010609	AP	06-Jan-15	9045	
Sulfate	354		100	mg/kg	10	5011202	AP	12-Jan-15	375.4	
Alkalinity, Total	80.0		4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			91.5 %	61-	154	4123107	MS	01-Jan-15	8021B	
Petroleum Hydrocarbons by G	CFID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	~~~
Surrogate: 1-Chlorooctane			86.5 %	47.2	157	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			85.2 %	52.1	176	4123101	MS	31-Dec-14	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	92.2			%	1	B501056	LLG	08-Jan-15	EPA160.3	ŀ

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JOHN H. HENDRIX CORPORATION

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

Reported:

Project Number: JHHC

21-Jan-15 13:51

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

# 11 B (3') H403939-20 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	alytical Labo	oratories					
Total Metals by ICP										
Aluminum	5600	1.52	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Calcium	871	3.14	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Copper	2.18	0.603	2.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Iron	5890	1.42	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Magnesium	827	7.02	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Manganese	53.7	0.144	0.500	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Potassium	1220	80.1	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Sodium	<87.5	87.5	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Zinc	13.0	0.699	1.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Total Metals by ICPMS				1						
Arsenic	1.29	0.202	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Barium	29.4	0.119	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Cadmium	< 0.141	0.141	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Chromium	5.19	0.659	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Lead	3.65	0.0934	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Selenium	< 0.448	0.448	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Silver	< 0.0916	0.0916	0.100	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Total Mercury by CVAA										
Mercury	< 0.0194	0.0194	0.103	mg/kg dry	475	B501102	JGS	13-Jan-15	EPA7471	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 21-Jan-15 13:51

11 B - 1 (1')

H403939-21 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	<4.00		4.00	mg/kg	1	4123105	AP	05-Jan-15	4500-C1-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Surrogate: 4-Bromofluorobenzene (P1D)			88.5 %	61-	154	4123107	MS	01-Jan-15	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			82.5 %	47.2	-157	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			84.4 %	52.1	-176	4123101	MS	31-Dec-14	8015B	

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21-Jan-15 13:51



# Analytical Results For:

JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

11 B - 1 (3') H403939-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										Lhilli
Alkalinity, Bicarbonate	351		20.0	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Chloride	8.00		4.00	mg/kg	1	4123105	AP	05-Jan-15	4500-C1-B	
Conductivity	463		0.250	uS/cm	1	5010608	AP	06-Jan-15	120.1	
pH*	7.64		0.100	pH Units	1	5010610	AP	06-Jan-15	9045	
Sulfate	131		40.0	mg/kg	4	5011202	AP	12-Jan-15	375.4	
Alkalinity, Total	288		4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			89.6%	61-	154	4123107	MS	01-Jan-15	8021B	
Petroleum Hydrocarbons by GC	CFID				1.17					
GRO C6-C10	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			86.3 %	47.2	-157	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			88.9 %	52.1	-176	4123101	MS	31-Dec-14	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry							,			
% Dry Solids	92.7			%	1	B501056	LLG	08-Jan-15	EPA160.3	I

General Chemistry								
% Dry Solids	92.7	%	1	B501056	LLG	08-Jan-15	EPA160.3	H1

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 21-Jan-15 13:51

11 B - 1 (3') H403939-22 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Labo	ratories					
Total Metals by ICP										
Aluminum	7720	1.52	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Calcium	1230	3.14	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Copper	1.95	0.603	2.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
ron	7630	1.42	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Magnesium	1180	7.02	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Manganese	53.1	0.144	0.500	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Potassium	1470	80.1	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Sodium	181	87.5	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	1
Zinc	16.5	0.699	1.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Total Metals by ICPMS										
Arsenic	2.01	0.202	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Barium	38.4	0.119	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Cadmium	< 0.141	0.141	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Chromium	6.18	0.659	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Lead	4.52	0.0934	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Selenium	< 0.448	0.448	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Silver	< 0.0916	0.0916	0.100	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Total Mercury by CVAA										
Mercury	< 0.0193	0.0193	0.102	mg/kg dry	475	B501102	JGS	13-Jan-15	EPA7471	

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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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

11 C (1') H403939-23 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										7
Chloride	<4.00		4.00	mg/kg	1	4123105	AP	05-Jan-15	4500-CI-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			89.7 %	61-	154	4123107	MS	01-Jan-15	8021B	
Petroleum Hydrocarbons by GO	CFID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			91.4%	47.2	-157	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			94.7 %	52.1	-176	4123101	MS	31-Dec-14	8015B	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported:

21-Jan-15 13:51

11 C (3') H403939-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	39.0		20.0	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Chloride	<4.00		4.00	mg/kg	1	4123105	AP	05-Jan-15	4500-CI-B	
Conductivity	339		0.250	uS/cm	1	5010608	AP	06-Jan-15	120.1	
pH*	7.12		0.100	pH Units	1	5010610	AP	06-Jan-15	9045	
Sulfate	148		40.0	mg/kg	4	5011202	AP	12-Jan-15	375.4	
Alkalinity, Total	32.0		4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Surrogate: 4-Bromofluorobenzene (P1D)			89.3 %	61-	54	4123107	MS	01-Jan-15	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			84.3 %	47.2-	157	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			86.1 %	52.1-	176	4123101	MS	31-Dec-14	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	92.0			%	1	B501056	LLG	08-Jan-15	EPA160.3	I

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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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

11 C (3') H403939-24 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Lab	oratories					
Total Metals by ICP										
Aluminum	9740	1.52	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Calcium	1530	3.14	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Copper	2.32	0.603	2.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Iron	8780	1.42	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Magnesium	1320	7.02	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Manganese	72.9	0.144	0.500	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Potassium	1580	80.1	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Sodium	<87.5	87.5	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Zinc	19.5	0.699	1.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Total Metals by ICPMS						-	-			
Arsenic	2.15	0.202	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Barium	45.0	0.119	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Cadmium	< 0.141	0.141	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Chromium	6.53	0.659	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Lead	5.25	0.0934	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Selenium	< 0.448	0.448	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Silver	< 0.0916	0.0916	0.100	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Total Mercury by CVAA										
Mercury	< 0.0204	0.0204	0.109	mg/kg dry	500	B501102	JGS	13-Jan-15	EPA7471	

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JOHN H. HENDRIX CORPORATION

Project: JHHC SWMF NM-02-0021

Reported:

P. O. BOX 3040 MIDLAND TX, 79702 Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

21-Jan-15 13:51

Fax To: (575) 394-2653

12 A (1') H403939-25 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	<4.00		4.00	mg/kg	1	4123105	AP	05-Jan-15	4500-CI-B	
Volatile Organic Compounds by I	EPA Method	8021				151.573	(i)			
Benzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8071R	-
Toluene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			91.2 %	61-	154	4123107	MS	01-Jan-15	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			88.7 %	47.2	-157	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			91.4 %	52.1	-176	4123101	MS	31-Dec-14	8015B	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Reported: 21-Jan-15 13:51

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

# 12 A (3') H403939-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborato	ries					
Inorganic Compounds										
Alkalinity, Bicarbonate	39.0		20.0	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Chloride	<4.00		4.00	mg/kg	1	4123105	AP	05-Jan-15	4500-Cl-B	
Conductivity	366		0.250	uS/cm	1	5010608	AP	06-Jan-15	120.1	
pH*	6.62		0.100	pH Units	1	5010610	AP	06-Jan-15	9045	
Sulfate	163		40.0	mg/kg	4	5011202	AP	12-Jan-15	375.4	
Alkalinity, Total	32.0		4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			89.8 %	61-1	54	4123107	MS	01-Jan-15	8021B	
Petroleum Hydrocarbons by GC	FID				-1					
GRO C6-C10	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			88.1 %	47.2-	157	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			84.1 %	52.1-	176	4123101	MS	31-Dec-14	8015B	
			Green Anal	ytical Labo	ratories					
General Chemistry										
% Dry Solids	91.7			%	1	B501056	LLG	08-Jan-15	EPA160.3	H

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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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

12 A (3') H403939-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Labo	ratories					
Total Metals by ICP										
Aluminum	8510	1.52	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Calcium	1280	- 3.14	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Copper	2.12	0.603	2.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Iron	7890	1.42	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Magnesium	1160	7.02	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Manganese	57.1	0.144	0.500	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Potassium	1550	80.1	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Sodium	<87.5	87.5	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Zinc	18.0	0.699	1.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Total Metals by ICPMS										
Arsenic	1.91	0.202	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Barium	43.8	0.119	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Cadmium	< 0.141	0.141	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Chromium	5.86	0.659	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Lead	4.35	0.0934	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Selenium	< 0.448	0.448	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Silver	< 0.0916	0.0916	0.100	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Total Mercury by CVAA										
Mercury	< 0.0199	0.0199	0.106	mg/kg dry	485	B501102	JGS	13-Jan-15	EPA7471	

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21-Jan-15 13:51



## Analytical Results For:

JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

12A - 1 (1') H403939-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Labora	tories					
Inorganic Compounds									12.01	1-
Chloride	<4.00		4.00	mg/kg	1	4123105	AP	05-Jan-15	4500-CI-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Surrogate: 4-Bromofluorobenzene (P1D	)		89.0 %	61-	154	4123107	MS	01-Jan-15	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			85.6 %	47.2	-157	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			79.9 %	52.1	-176	4123101	MS	31-Dec-14	8015B	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 21-Jan-15 13:51

12 A - 1 (3') H403939-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	117		20.0	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Chloride	<4.00		4.00	mg/kg	_ 1	4123105	AP	05-Jan-15	4500-C1-B	
Conductivity	169		0.250	uS/cm	1	5010608	AP	06-Jan-15	120.1	
pH*	7.32		0.100	pH Units	1	5010610	AP	06-Jan-15	9045	
Sulfate	980		200	mg/kg	20	5011202	AP	12-Jan-15	375.4	
Alkalinity, Total	96.0		4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Volatile Organic Compounds by l	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			90.0 %	61-1	154	4123107	MS	01-Jan-15	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			91.5 %	47.2-	157	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			92.7 %	52.1-	176	4123101	MS	31-Dec-14	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	93.0			%	1	B501056	LLG	08-Jan-15	EPA160.3	Н

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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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

12 A - 1 (3') H403939-28 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Labo	ratories					
Total Metals by ICP										
Aluminum	6700	1.52	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Calcium	1010	3.14	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Copper	2.00	0.603	2.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Iron	6830	1.42	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Magnesium	951	7.02	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Manganese	59.2	0.144	0.500	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Potassium	1400	80.1	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Sodium	109	87.5	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	J
Zinc	14.3	0.699	1.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Total Metals by ICPMS						-				
Arsenic	1.69	0.202	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Barium	37.1	0.119	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Cadmium	< 0.141	0.141	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Chromium	5.95	0.659	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Lead	4.17	0.0934	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Selenium	< 0.448	0.448	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Silver	< 0.0916	0.0916	0.100	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Total Mercury by CVAA										
Mercury	< 0.0194	0.0194	0.103	mg/kg dry	480	B501102	JGS	13-Jan-15	EPA7471	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported:

21-Jan-15 13:51

12 B (1') H403939-29 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	<4.00		4.00	mg/kg	1	4123106	AP	31-Dec-14	4500-C1-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)	)		90.0 %	61-	154	4123107	MS	01-Jan-15	8021B	
Petroleum Hydrocarbons by G	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			81.7%	47.2-	157	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			81.1 %	52.1-	176	4123101	MS	31-Dec-14	8015B	

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P. O. BOX 3040

Project: JHHC SWMF NM-02-0021

-0021

Reported: 21-Jan-15 13:51

P. O. BOX 3040 MIDLAND TX, 79702 Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

12 B (3') H403939-30 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	234		20.0	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Chloride	<4.00		4.00	mg/kg	1	4123106	AP	31-Dec-14	4500-C1-B	
Conductivity	246		0.250	uS/cm	1	5010608	AP	06-Jan-15	120.1	
pH*	7.73		0.100	pH Units	1	5010610	AP	06-Jan-15	9045	
Sulfate	529		100	mg/kg	10	5011202	AP	12-Jan-15	375.4	
Alkalinity, Total	192		4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID	))		89.8 %	61-	154	4123107	MS	01-Jan-15	8021B	
Petroleum Hydrocarbons by (	GC FID							1		
GRO C6-C10	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			89.6 %	47.2-	157	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			90.5 %	52.1-	176	4123101	MS	31-Dec-14	8015B	
			Green Anal	ytical Lab	oratories					
General Chemistry										
% Dry Solids	93.5			%	1	B501056	LLG	08-Jan-15	EPA160.3	Н1

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported:

21-Jan-15 13:51

# 12 B (3') H403939-30 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Labo	ratories					
Total Metals by ICP										
Aluminum	3880	1.52	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Calcium	1090	3.14	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Copper	2.42	0.603	2.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Iron	4450	1.42	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Magnesium	585	7.02	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Manganese	59.1	0.144	0.500	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Potassium	955	80.1	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Sodium	<87.5	87.5	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Zinc	9.97	0.699	1.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Total Metals by ICPMS										
Arsenic	0.753	0.202	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Barium	25.2	0.119	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Cadmium	< 0.141	0.141	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Chromium	3.78	0.659	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Lead	2.94	0.0934	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Selenium	< 0.448	0.448	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Silver	< 0.0916	0.0916	0.100	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Total Mercury by CVAA										
Mercury	< 0.0203	0.0203	0.108	mg/kg dry	505	B501102	JGS	13-Jan-15	EPA7471	

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JOHN H. HENDRIX CORPORATION
P. O. BOX 3040

Project: JHHC SWMF NM-02-0021

Reported:

P. O. BOX 3040 MIDLAND TX, 79702 Project Number: JHHC

21-Jan-15 13:51

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

12 C (1') H403939-31 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					
Inorganic Compounds										
Chloride	<4.00		4.00	mg/kg	1	4123106	AP	31-Dec-14	4500-C1-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4123107	MS	01-Jan-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID	)		90.9 %	61-	154	4123107	MS	01-Jan-15	8021B	
Petroleum Hydrocarbons by C	GC FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctane			82.6 %	47.2	-157	4123101	MS	31-Dec-14	8015B	
Surrogate: 1-Chlorooctadecane			83.3 %	52.1	-176	4123101	MS	31-Dec-14	8015B	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 21-Jan-15 13:51

12 C (3') H403939-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Inorganic Compounds										
Alkalinity, Bicarbonate	254		20.0	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Alkalinity, Carbonate	<4.00		4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Chloride	<4.00		4.00	mg/kg	1	4123106	AP	31-Dec-14	4500-CI-B	
Conductivity	128		0.250	uS/cm	1	5010608	AP	06-Jan-15	120.1	
pH*	7.79		0.100	pH Units	1	5010610	AP	06-Jan-15	9045	
Sulfate	<40.0		40.0	mg/kg	4	5011202	AP	12-Jan-15	375.4	/
Alkalinity, Total	208		4.00	mg/kg	4	5010606	AP	12-Jan-15	310.1M	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	5010201	MS	02-Jan-15	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5010201	MS	02-Jan-15	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5010201	MS	02-Jan-15	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5010201	MS	02-Jan-15	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5010201	MS	02-Jan-15	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			85.1 %	61-1	54	5010201	MS	02-Jan-15	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	4123101	MS	01-Jan-15	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	4123101	MS	01-Jan-15	8015B	
Surrogate: 1-Chlorooctane			88.3 %	47.2-	157	4123101	MS	01-Jan-15	8015B	
Surrogate: 1-Chlorooctadecane			90.4 %	52.1-	176	4123101	MS	01 <b>-Jan-1</b> 5	8015B	
			Green Analy	ytical Lab	oratories					
General Chemistry	,									
% Dry Solids	92.0			%	1	B501056	LLG	08-Jan-15	EPA160.3	H

General Chemistry	,							
% Dry Solids	92.0	%	1	B501056	LLG	08-Jan-15	EPA160.3	H1

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21-Jan-15 13:51



## Analytical Results For:

JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

12 C (3') H403939-32 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Green Ana	lytical Labo	oratories					
Total Metals by ICP										
Aluminum	4400	1.52	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Calcium	1190	3.14	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Copper	2.28	0.603	2.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Iron	4860	1.42	5.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Magnesium	764	7.02	100	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Manganese	54.7	0.144	0.500	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Potassium	984	80.1	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Sodium	<87.5	87.5	200	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Zinc	11.2	0.699	1.00	mg/kg dry	100	B501072	JGS	09-Jan-15	EPA6010 B	
Total Metals by ICPMS										
Arsenic	0.875	0.202	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Barium	30.4	0.119	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Cadmium	< 0.141	0.141	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Chromium	3.91	0.659	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Lead	3.08	0.0934	0.500	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Selenium	< 0.448	0.448	1.00	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Silver	< 0.0916	0.0916	0.100	mg/kg dry	1000	B501096	JGS	12-Jan-15	6020 A	
Total Mercury by CVAA						*				
Mercury	< 0.0202	0.0202	0.108	mg/kg dry	495	B501102	JGS	13-Jan-15	EPA7471	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported:

21-Jan-15 13:51

### **Inorganic Compounds - Quality Control**

#### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4120308 - General Prep - Wet Chem				L. Verne						
Blank (4120308-BLK1)			`	Prepared &	Analyzed:	03-Dec-14			,	
Alkalinity, Carbonate	ND	0.00	mg/kg							
Alkalinity, Bicarbonate	ND	5.00	mg/kg							
Alkalinity, Total	ND	1.00	mg/kg							
LCS (4120308-BS1)				Prepared &	Analyzed:	03-Dec-14				
Alkalinity, Carbonate	ND	0.00	mg/kg				80-120			
Alkalinity, Bicarbonate	122	5.00	mg/kg				80-120			
Alkalinity, Total	100	1.00	mg/kg	100		100	80-120			
LCS Dup (4120308-BSD1)				Prepared &	Analyzed:	03-Dec-14				
Alkalinity, Carbonate	ND	0.00	mg/kg				80-120		20	
Alkalinity, Bicarbonate	122	5.00	mg/kg				80-120	0.00	20	
Alkalinity, Total	100	1.00	mg/kg	100		100	80-120	0.00	20	
Batch 4123010 - 1:4 DI Water										
Blank (4123010-BLK1)				Prepared &	Analyzed:	30-Dec-14				
Chloride	ND	16.0	mg/kg							
LCS (4123010-BS1)				Prepared &	: Analyzed:	30-Dec-14				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (4123010-BSD1)			٠	Prepared &	Analyzed:	30-Dec-14				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	
Batch 4123105 - 1:4 DI Water										
Blank (4123105-BLK1)				Prepared: 3	1-Dec-14 A	nalyzed: 0:	5-Jan-15			
Chloride	ND	16.0	mg/kg							

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JOHN H. HENDRIX CORPORATION

Project: JHHC SWMF NM-02-0021

Reported:

P. O. BOX 3040

Project Number: JHHC

21-Jan-15 13:51

MIDLAND TX, 79702

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

### **Inorganic Compounds - Quality Control**

#### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4123105 - 1:4 DI Water	-							-		
LCS (4123105-BS1)				Prepared:	31-Dec-14	Analyzed: 0	5-Jan-15			
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (4123105-BSD1)				Prepared:	31-Dec-14	Analyzed: 0	5-Jan-15			
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
Batch 4123106 - 1:4 DI Water		-								
Blank (4123106-BLK1)				Prepared &	& Analyzed:	31-Dec-14				
Chloride	ND	16.0	mg/kg		T T T					
LCS (4123106-BS1)				Prepared &	Analyzed:	31-Dec-14				*
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (4123106-BSD1)				Prepared &	& Analyzed:	31-Dec-14				
Chloride	416	16.0	mg/kg	400		104	80-120	3.77	20	
Batch 5010606 - General Prep - Wet Chem										
Blank (5010606-BLK1)				Prepared:	06-Jan-15 A	nalyzed: 13	3-Jan-15			
Alkalinity, Carbonate	ND	0.00	mg/kg							
Alkalinity, Bicarbonate	ND	5.00	mg/kg							
Alkalinity, Total	ND	1.00	mg/kg							
LCS (5010606-BS1)				Prepared:	06-Jan-15 A	nalyzed; 1;	3-Jan-15			
Alkalinity, Carbonate	ND	0.00	mg/kg				80-120			
Alkalinity, Bicarbonate	122	5.00	mg/kg				80-120			
Alkalinity, Total	100	1.00	mg/kg	100		100	80-120			

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported:

21-Jan-15 13:51

## **Inorganic Compounds - Quality Control**

#### **Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5010606 - General Prep - Wet Chem										
LCS Dup (5010606-BSD1)				Prepared: (	6-Jan-15 A	nalyzed: 13	-Jan-15			
Alkalinity, Carbonate	ND	0.00	mg/kg				80-120		20	
Alkalinity, Bicarbonate	122	5.00	mg/kg				80-120	0.00	20	
Alkalinity, Total	100	1.00	mg/kg	100		100	80-120	0.00	20	
Batch 5010607 - General Prep - Wet Chem										
LCS (5010607-BS1)				Prepared &	Analyzed:	06-Jan-15			THE RES	444
Conductivity	525		uS/cm	500		105	80-120			
Duplicate (5010607-DUP1)	Sou	rce: H403939	-02	Prepared &	: Analyzed:	06-Jan-15				
Conductivity	241	0.250	uS/cm		234			3.20	20	
Batch 5010608 - General Prep - Wet Chem										
LCS (5010608-BS1)				Prepared &	Analyzed:	06-Jan-15				
Conductivity	531		uS/cm	500		106	80-120			
Duplicate (5010608-DUP1)	Sou	rce: H403939	-18	Prepared &	Analyzed:	06-Jan-15				
Conductivity	449	0.250	uS/cm		424			5.73	20	
Batch 5010609 - General Prep - Wet Chem										
LCS (5010609-BS1)				Prepared: 0	5-Jan-15 A	nalyzed: 06	-Jan-15			
pH	7.11		pH Units	7.00		102	90-110			

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P. O. BOX 3040

MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

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Reported:

21-Jan-15 13:51

### **Inorganic Compounds - Quality Control**

#### **Cardinal Laboratories**

Dagult	Reporting	Linite	Spike	Source	0/DEC	%REC	PPD	RPD	Notes
Kesuit	Limit	Onits	Level	Result	PerCEC	Limits	Krb	Lillit	140163
									1
Sou	rce: H403939	-02	Prepared:	05-Jan-15 A	nalyzed: 06	5-Jan-15			
7.98	0.100	pH Units		7.89			1.13	20	
			Prepared:	05-Jan-15 A	nalyzed: 06	5-Jan-15			
7.14		pH Units	7.00		102	90-110			
Sou	rce: H403939	-22	Prepared:	05-Jan-15 A	nalyzed: 00	5-Jan-15			
7.69	0.100	pH Units		7.64			0.652	20	
			Prepared &	k Analyzed:	12-Jan-15				
ND	10.0	mg/kg							
			Prepared &	k Analyzed:	12-Jan-15				
19.9	10.0	mg/kg	20.0		99.5	80-120			
			Prepared &	k Analyzed:	12-Jan-15				
20.8	10.0	mg/kg	20.0		104	80-120	4.66	20	
	7.14 Sou 7.69 ND	Result Limit  Source: H403939 7.98 0.100  7.14  Source: H403939 7.69 0.100  ND 10.0	Source: H403939-02     7.98	Source: H403939-02   Prepared:	Source: H403939-02   Prepared: 05-Jan-15 A	Source: H403939-02   Prepared: 05-Jan-15 Analyzed: 06   7.98	Source: H403939-02   Prepared: 05-Jan-15 Analyzed: 06-Jan-15	Source: H403939-02   Prepared: 05-Jan-15 Analyzed: 06-Jan-15     7.98	Source: H403939-02   Prepared: 05-Jan-15 Analyzed: 06-Jan-15

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 21-Jan-15 13:51

## 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 4123102 - Volatiles										
Blank (4123102-BLK1)				Prepared &	Analyzed:	31-Dec-14				
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)	ND		mg/kg	0.0500		92.2	61-154			
LCS (4123102-BS1)				Prepared &	Analyzed:	31-Dec-14				
Benzene	1.83	0.050	mg/kg	2.00		91.6	77.1-114			
Toluene	1.82	0.050	mg/kg	2.00		91.0	67-114			
Ethylbenzene	1.73	0.050	mg/kg	2.00		86.4	63.5-121			
Total Xylenes	5.23	0.150	mg/kg	6.00		87.2	62.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0437		mg/kg	0.0500		87.4	61-154			
LCS Dup (4123102-BSD1)				Prepared &	Analyzed:	31-Dec-14				
Benzene	1.88	0.050	mg/kg	2.00		94.0	77.1-114	2.58	16.4	
Toluene	1,88	0.050	mg/kg	2.00		94.0	67-114	3.29	16.2	
Ethylbenzene	1.81	0.050	mg/kg	2.00		90.5	63.5-121	4.64	17	
Total Xylenes	5.49	0.150	mg/kg	6.00		91.5	62.4-125	4.78	17	
Surrogate: 4-Bromofluorobenzene (PID)	0.0454		mg/kg	0.0500		90.7	61-154			
Batch 4123107 - Volatiles										
Blank (4123107-BLK1)				Prepared &	Analyzed:	31-Dec-14				
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)	ND		mg/kg	0.0500		90.6	61-154			

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 21-Jan-15 13:51

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

#### **Cardinal Laboratories**

	P 1	Reporting	**	Spike	Source	A/DEC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4123107 - Volatiles										
LCS (4123107-BS1)				Prepared &	k Analyzed:	31-Dec-14				
Вепхене	1.79	0.050	mg/kg	2.00		89.4	77.1-114			
Toluene	1.80	0.050	mg/kg	2.00		90.0	67-114			
Ethylbenzene	1.75	0.050	mg/kg	2.00		87.6	63.5-121			
Total Xylenes	5.36	0.150	mg/kg	6.00		89.3	62.4-125			
Surrogate: 4-Bromofluoroberzene (PID)	0.0450		mg/kg	0.0500		90.1	61-154			
LCS Dup (4123107-BSD1)				Prepared &	Analyzed:	31-Dec-14	ļ			
Benzene	1.83	0.050	mg/kg	2.00		91.7	77.1-114	2.56	16.4	
Toluene	1.83	0.050	mg/kg	2.00		91.4	67-114	1.59	16.2	
Ethylbenzene	1.76	0.050	mg/kg	2.00		87.8	63.5-121	0.232	17	
Total Xylenes	5.38	0.150	mg/kg	6.00		89.6	62.4-125	0.391	17	
Surrogate: 4-Bromofluorobenzene (P1D)	0.0438		mg/kg	0.0500		87.6	61-154			
Batch 5010201 - Volatiles										
Blank (5010201-BLK1)				Prepared &	2 Analyzed:	02-Jan-15				
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)	ND		mg/kg	0.0500		85.1	61-154			
LCS (5010201-BS1)				Prepared &	k Analyzed:	02-Jan-15				
Benzene	1.77	0.050	mg/kg	2.00		88.4	77.1-114			
Toluene	1.78	0.050	mg/kg	2.00		89.2	67-114			
Ethylbenzene	1.76	0.050	mg/kg	2.00		88.0	63.5-121			
Total Xylenes	5.25	0.150	mg/kg	6.00		87.6	62.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.0418		mg/kg	0.0500		83.5	61-154			

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## Analytical Results For:

JOHN H. HENDRIX CORPORATION

MIDLAND TX, 79702

Project: JHHC SWMF NM-02-0021

Reported:

P. O. BOX 3040

Project Number: JHHC

21-Jan-15 13:51

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

## 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 5010201 - Volatiles										
LCS Dup (5010201-BSD1)				Prepared &	Analyzed:	02-Jan-15				
Benzene	1.79	0.050	mg/kg	2.00		89.4	77.1-114	1.14	16.4	
Toluene	1.79	0.050	mg/kg	2.00		89.6	67-114	0.388	16.2	
Ethylbenzene	1.74	0.050	mg/kg	2.00		87.1	63.5-121	0.917	17	
Total Xylenes	5.20	0.150	mg/kg	6.00		86.6	62.4-125	1.09	17	
Surrogate: 4-Bromofluorobenzene (PID)	0.0414		mg/kg	0.0500		82.9	61-154			

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

21-Jan-15 13:51

Reported:

#### 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 4123013 - General Prep - Organics										
Blank (4123013-BLK1)				Prepared: 3	0-Dec-14	Analyzed: 3	1-Dec-14			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.0		mg/kg	50.0		92.1	47.2-157			
Surrogate: 1-Chlorooctadecane	45.1		mg/kg	50.0		90.2	52.1-176			
LCS (4123013-BS1)				Prepared: 3	0-Dec-14	Analyzed: 3	1-Dec-14			
GRO C6-C10	195	10.0	mg/kg	200		97.4	72.5-115			
DRO >C10-C28	229	10.0	mg/kg	200		115	81.3-118			
Surrogate: 1-Chlorooctane	47.7		mg/kg	50.0		95.5	47.2-157			
Surrogate: 1-Chlorooctadecane	48.2		mg/kg	50.0		96.4	52.1-176			
LCS Dup (4123013-BSD1)				Prepared: 3	0-Dec-14	Analyzed: 3	1-Dec-14			
GRO C6-C10	199	10.0	mg/kg	200		99.3	72.5-115	2.01	10.1	
DRO >C10-C28	237	10.0	mg/kg	200		119	81.3-118	3.27	15.3	
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0		94.2	47.2-157			
Surrogate: 1-Chlorooctadecane	46.2		mg/kg	50.0		92.4	52.1-176			
Batch 4123101 - General Prep - Organics										
Blank (4123101-BLK1)				Prepared &	Analyzed:	31-Dec-14				
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	50.3		mg/kg	50.0		101	47.2-157			
Surrogate: 1-Chlorooctadecane	54.6		mg/kg	50.0		109	52.1-176			
LCS (4123101-BS1)				Prepared &	Analyzed:	31-Dec-14	,			
GRO C6-C10	181	10.0	mg/kg	200		90.3	72.5-115			
DRO >C10-C28	178	10.0	mg/kg	200		89.2	81.3-118			
Surrogate: 1-Chlorooctane	49.2		mg/kg	50.0		98.4	47.2-157			
Surrogate: 1-Chlorooctadecane	51.2		mg/kg	50.0		102	52.1-176			

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

%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: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported:

21-Jan-15 13:51

RPD

# Petroleum Hydrocarbons by GC FID - Quality Control

#### **Cardinal Laboratories**

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4123101 - General Prep - Organics										
LCS Dup (4123101-BSD1)				Prepared &	Analyzed:	31-Dec-14				
GRO C6-C10	182	10.0	mg/kg	200		91.1	72.5-115	0.971	10.1	
DRO >C10-C28	191	10.0	mg/kg	200		95.6	81.3-118	6.93	15.3	
Surrogate: 1-Chlorooctane	49.1		mg/kg	50.0		98.2	47.2-157			
Surrogate: 1-Chlorooctadecane	48.5		mg/kg	50.0		96.9	52.1-176			

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 60 of 67



JOHN H. HENDRIX CORPORATION

Project: JHHC SWMF NM-02-0021

Reported:

P. O. BOX 3040

Project Number: JHHC

21-Jan-15 13:51

MIDLAND TX, 79702

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

### Total Metals by ICP - Quality Control

#### **Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Source Level Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B501072 - EPA 3050									
Blank (B501072-BLK1)				Prepared & Analyze	i: 09-Jan-15				
Iron	0.029	0.050	mg/kg dry						
Calcium	ND	1.00	mg/kg dry						
Manganese	ND	0.005	mg/kg dry						
Potassium	ND	2.00	mg/kg dry						
Zinc	ND	0.010	mg/kg dry						
Copper	ND	0.020	mg/kg dry						
Magnesium	ND	1.00	mg/kg dry						
Aluminum	ND	0.050	mg/kg dry						
Sodium	ND	2.00	mg/kg dry						
LCS (B501072-BS1)				Prepared & Analyze	i: 09-Jan-15				
odium	6,21	2.00	mg/kg dry	6,48	95.8	85-115			
Manganese	1.91	0.005	mg/kg dry	2.00	95.5	85-115			
Zinc	1.83	0.010	mg/kg dry	2.00	91.4	85-115			
ron	3.97	0.050	mg/kg dry	4.00	99.2	85-115			
Copper	4.04	0.020	mg/kg dry	4.00	101	85-115			
Aluminum	4.01	0.050	mg/kg dry	4.00	100	85-115			
Magnesium	19.8	1.00	mg/kg dry	20.0	98.8	85-115			
Calcium	3.77	1.00	mg/kg dry	4.00	94.3	85-115			
Potassium	7.77	2.00	mg/kg dry	8.00	97.2	85-115			
.CS Dup (B501072-BSD1)				Prepared & Analyze	d: 09-Jan-15				
Manganese	1.91	0.005	mg/kg dry	2.00	95.5	85-115	0.0253	20	
Sodium	6.25	2.00	mg/kg dry	6.48	96.5	85~115	0.700	20	
Magnesium	19.8	1.00	mg/kg dry	20.0	98.9	85-115	0.117	20	
ron	4.00	0.050	mg/kg dry	4.00	100	85-115	0.853	20	
Potassium	7.94	2.00	mg/kg dry	8.00	99.2	85-115	2.10	20	
Zinc	1.83	0.010	mg/kg dry	2.00	91.6	85-115	0.166	20	
Copper	4.05	0.020	mg/kg dry	4.00	101	85-115	0.193	20	
Aluminum	4.24	0.050	mg/kg dry	4.00	106	85-115	5.59	20	
Calcium	3.79	1.00	mg/kg dry	4.00	94.7	85-115	0.462	20	

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JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Reported: 21-Jan-15 13:51

# Total Metals by ICPMS - Quality Control

#### **Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B501096 - EPA 3050M										
Blank (B501096-BLK1)				Prepared &	Analyzed:	12-Jan-15				
Selenium	ND	0.0010	mg/kg dry							
Cadmium	ND	0.0005	mg/kg dry							
Silver	ND	0.0001	mg/kg dry							
Lead	ND	0.0005	mg/kg dry							
Barium	ND	0.0005	mg/kg dry							
Arsenic	0.0004	0.0005	mg/kg dry							
Chromium	ND	0.0010	mg/kg dry							
LCS (B501096-BS1)				Prepared &	Analyzed:	12-Jan-15				
Lead	0.0473	0.0005	mg/kg dry	0.0500		94.7	85-115			
Cadmium	0.0485	0.0005	mg/kg dry	0.0500		96.9	85-115			
Silver	0.0449	0.0001	mg/kg dry	0.0500		89.8	85-115			
Arsenic	0.0528	0.0005	mg/kg dry	0.0500		106	85-115			
Chromium	0.0460	0.0010	mg/kg dry	0.0500		92.1	85-115			
Barium	0.0498	0.0005	mg/kg dry	0.0500		99.5	85-115			
Selenium	0.246	0.0010	mg/kg dry	0.250		98.4	85-115			
LCS Dup (B501096-BSD1)				Prepared &	Analyzed:	12-Jan-15				
Lead	0.0477	0.0005	mg/kg dry	0.0500		95.5	85-115	0.835	20	
Arsenic	0.0525	0.0005	mg/kg dry	0.0500		105	85-115	0.695	20	
Selenium	0.243	0.0010	mg/kg dry	0.250		97.1	85-115	1.33	20	
Cadmium	0.0486	0.0005	mg/kg dry	0.0500		97.2	85-115	0.268	20	
Silver	0.0447	0.0001	mg/kg dry	0.0500		89.5	85-115	0.431	20	
Barium	0.0491	0.0005	mg/kg dry	0.0500		98.3	85-115	1.30	20	
Chromium	0.0465	0.0010	mg/kg dry	0.0500		93.1	85-115	1.11	20	

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Celey D. Keena





JOHN H. HENDRIX CORPORATION

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

Project Number: JHHC

Project Manager: CAROLYN DORAN HAYNES

Fax To: (575) 394-2653

Total Mercury by CVAA - Quality Control

**Green Analytical Laboratories** 

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B501102 - EPA 7471										
Blank (B501102-BLK1)				Prepared &	Analyzed:	13-Jan-15				
Mercury	ND	0.0002	mg/kg wet							
LCS (B501102-BS1)				Prepared &	Analyzed:	13-Jan-15				
Mercury	0.0023	0.0002	mg/kg wet	0.00200		115	85-115			
LCS Dup (B501102-BSD1)				Prepared &	: Analyzed:	13-Jan-15				
Mercury	0.0022	0.0002	mg/kg wet	0.00200		109	85-115	5.08	20	

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Celsey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Reported:

21-Jan-15 13:51



#### **Notes and Definitions**

	Estimated conentration. Analyte concentration between MDL and RL.
11	Sample was received several days after collected and subsequently analyzed past hold time.
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. Kuna

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(LAB USE ONLY H403939		(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR	SLUDGE	HCL	HNO3	NaHSO4	H ₂ SO ₄	ICE	None		DATE	TIME	MTBE 80	BTEX 8021	<b>TPH 8015M</b>	PAH 8270C	HCKA Metals: Ag As Ba Cd Cr Po Se Hg	WOCC Metals:	TCLP Volatiles	TCI P Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	Moisture Content	Cations (Ca, Mg,	Anions (CI,	Total Dissolved Solids (SM2540C)	SPI P Chlorida	Turn Around Time ~ 24 Hours
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					MAT	RIX			PR	_	TH		IVE		SAMPL	ING					Ag As Ba Cd Cr Pb Se Hg	Cu Fe		22		B/624	8270C/625		K, Na)	CO3, HCO3,	O B or		-24
LAB USE ONLY	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR	SLUDGE	HCL	HNO ₃	NaHSO4	H ₂ SO ₄	ICE	None		рате	TIME	MTBE 80218/602	BTEX 8021 B	TPH 8015M	PAH 8270C	RCRA Metals: Ag	F	TCLP Volatiles	CLP Semi volani	RCI	GC/MS Vol. 8260B/624	GC/MS Semi, Vol.	Moisture Content	-	Anions (Cl. SO4, C	Chlorides (SM4500 B or 300.1)	SPLP Chloride	Turn Around Time - 24 Hours
11	10B-1 (1')	G	1	12	X	~	0,			_	-	X	-		12/29/14	1130	-	X	-	LL			1	1	1	Ť				1	X		
12		G	2	-	X				-			X			12/29/14	1135	1		X		X	Y	+	+	+	+			X	X	+	+	1
		G	1	-	X							X		-	12/29/14		-	-	X		^		+	+	+	+	H				>	,	+
The second secon		-	-	+					-		-	-		_	-	1040	$\vdash$		x	-	v	V	+	+	+	+	H	-	X	X	+	+	+
	10C (3')	G	2	-	X						_	X			12/29/14	1045	┝				X	^	+	+	+	+	H		4	^	+	+	+-
AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUM	10C-1 (1')	G	1	-	X				_			X		_	12/29/14	1050	1		X			_	+	+	+	+	H		-	+	>	4	+
The state of the s	10C-1 (3')	G	2		X							X	-		12/29/14	1055	_		X		X	X	1	+	+	+	$\vdash$		X	Х	+	-	-
	11A (1')	G	1		X							X	-		12/29/14	1240			X				1	1	1	1	$\sqcup$		_	_	)	4	
18	11A (3')	G	2		X							X			12/29/14	1245			X		X	X							X	X		_	
19	11B (1')	G	1		X							X			12/29/14	1155		X	X												)	(	
20	11B (3')	G	2		X							X			12/29/14	1200		X	X		Χ	X							X	X			
Relinguisped 8		Receiv	ved by:							D	ate		Ti	me			Ph	one	Res	ults			Yes	T	N	lo							
81/la	12/29/4 1410																Fa	x Re	suit	5			Yes	T	N	lo	Ad	ditio	nal	Fax	Nun	iber:	
Relinquished b		Receiv	ved By	L	abora	To the	Sta	ff)	10	D	ate;	1		ne:		4:10	F	En	ARK		ults	to:											
Delivered By:	(Circle One)  UPS - Bus - Other:	Sandia 3.	Condit 42 Yes	Coo	-/	intac	1		ECK	EDI	1	A	1		<i>f</i>								.(				iyne nt-e					.coi	m

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LAB USE )	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR	SLUDGE	HC.	HNO3	Nambo.	72304	None		DATE	TIME	MTBE 8021B/602	BTEX 8021 B	TPH 8015M	PAH 8270C	ACCEA Metals: Ag As Ba Cd Cr	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	GC/MS Vol. 8250R/624	GC/MS Semi. Vol.	Maisture Content	Cations (Ca, N	Anions (Cl. SO4.	Chlorides (SM4500 B or 300 1)	SPLP Chloride	Turn Around Time ~ 24 Hours
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	11B-1 (1')	G	1		X		4	1		1		X		12/29/14	1205		X			1	1						1		>		
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	11C (1')	G	1		X		4	4	4	1		X		12/29/14	1220		X	-		1	_					Ш		_	>		
24	11C (3')	G	2		X						-	X		12/29/14	1225		X	X		X X	<			_			X	X			
35	12A (1')	G	1		X					1		X		12/29/14	1305		X												>		
26	12A (3')	G	2		X		_	_		_		X		12/29/14	1310		X			X)	X_						X	X			
27	12A-1 (1')	G	1		X		1				_	X		12/29/14	1315			Х											>		
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29	12B (1')	G	1		X							X		12/29/14	1330		X	1											)		
30	12B (3')	G	2		X							X		12/29/14	1335		X			X )	K						X	X			
31	12C (1')	G	1		X							X		12/29/14	1350			Х											)		
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Relinguished by Delivered By:	(Circle One)	Sampi	OC Condition	ti	bora	A CONTRACTOR	W	U	CKE	Date 10 D BY	1	2/2	me:	114 11	4:10	R		ARKS		its t	o:				iyne						
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