

NM1 - 45

MONITORING REPORT

YEAR(S):

2012 - 2014

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

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

David R. Catanach, Division Director
Oil Conservation Division



June 30, 2015

Danny Watson
Jay Dan Landfarm LLC
P.O. Box 632
Lovington, New Mexico 88260

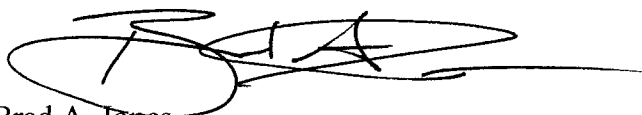
RE: Extension Request To Respond To OCD's 2014 Bi-Annual Sampling and Five Year Monitoring Report Reviews
Jay Dan Landfarm, LLC
Permit NM1-045
Location: Unit E of Section 32, Township 15 South, Range 35 East, NMPM
Lea County, New Mexico

Dear Mr. Watson:

The Oil Conservation Division (OCD) has completed the review of Jay Dan Landfarm LLC's (Jay Dan) request, dated June 18, 2015 and received by OCD on June 23, 2015, for an extension to respond to OCD's request for additional information based upon OCD's May 19, 2015 written review of Jay Dan's 2014 Bi-Annual Sampling and Five Year Monitoring Report Reviews. Based upon our conversation on June 25, 2015, OCD hereby grants a 30-day extension to the submittal deadline for a demonstration to establish the facility background, as provided in OCD's May 19, 2015 review.

If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,



Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District I Office, Hobbs

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

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Cabinet Secretary

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Deputy Cabinet Secretary

David R. Catanach, Division Director
Oil Conservation Division



May 19, 2015

Danny Watson
Jay Dan Landfarm LLC
P.O. Box 632
Lovington, New Mexico 88260

**RE: 2014 Bi-Annual Sampling and Five Year Monitoring Report Reviews
Jay Dan Landfarm, LLC
Permit NM1-045
Location: Unit E of Section 32, Township 15 South, Range 35 East, NMPM
Lea County, New Mexico**

Dear Mr. Watson:

The Oil Conservation Division (OCD) has completed the review of Jay Dan Landfarm LLC's (Jay Dan) May 2014 Bi-Annual Treatment and Vadose Zone Monitoring Report; September 2014 New Background Report; September 2014 Release Response Report for Cells 1-3 and Five Year Vadose Zone Monitoring Report for Cell 4; and the December 2014 Bi-Annual Treatment and Vadose Zone Monitoring Report. OCD appreciates Jay Dan's efforts to implement changes to your monitoring protocols to comply with the requests in OCD's 2013 Bi-Annual Sampling and Five Year Monitoring Report Review, dated April 8, 2014. The review of the 2014 monitoring data has resulted in the discovery of some issues that must be addressed in order for Jay Dan to remain compliant with Permit NM1-045 and 19.15.36 NMAC (Part 36).

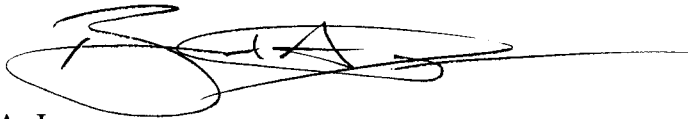
OCD has reviewed the administrative files for the facility and determined that the vadose zone monitoring frequency changed from the permit condition "The soil samples must be analyzed using EPA-approved methods for total petroleum hydrocarbons (TPH) and volatile aromatic organics (BTEX) quarterly and for major cations/anions and Water Quality Control Commission (WQCC) metals annually" to semi-annual in 2009. OCD has been unable to locate Jay Dan's modification request for the change in sampling frequency or OCD's approval for such a modification request. Please provide OCD a copy of Jay Dan's modification request and OCD approval in order to continue the semi-annual sampling frequency. If Jay Dan is unable to demonstrate the approval, Jay Dan shall revert back permitted vadose zone monitoring frequency. Please note that the transitional provisions of 19.15.36.20 NMAC must be considered. Please review OCD's letter dated June 30, 2011 and titled "*Compliance with the Transitional Provisions of the Surface Waste Management Facilities rule (Rule 36) and Treatment and Vadose Monitoring Requirements at Existing Landfarms*" for expectation of compliance.

Mr. Watson
Jay Dan Landfarm
Permit NM1-034
May 19, 2015
Page 4 of 4

this letter. If statistics are used in the demonstration, please provide references from EPA statistical guidance documents to support proposed statistical methods. OCD is unable to accept a PQL of 100 mg/kg as background for TPH. Please re-establish background for TPH by 418.1 or an equivalent method capable of demonstrating a carbon range from C₆ to C₃₆. Please submit a response action plan to address the exceedances of the September 2014 Release Response Report for Cells 1-3 within 90 days of the date of this letter. Please ensure that the laboratory's reporting limit does not exceed the established background and/or PQLs for all future vadose zone sampling events.

OCD has implemented some new policies for submittal. For future submittals, please include a cover letter from the owner/operator, on the owner's/operator's company letterhead, that recognizes the owner/operator has reviewed the submittal, signed by the owner/operator. Also, please provide an updated facility map, for each individual sampling event, that identifies the individual landfarm cells within the facility boundary and indicate the approximate location within the landfarm cells in which the samples were obtained. If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

A handwritten signature in black ink, appearing to read 'Brad A. Jones', with a long horizontal line extending to the right.

Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District I Office, Hobbs
Eddie Seay, Eddie Seay Consulting, Hobbs, NM 88242
Mark Larson, Larson & Associates, Inc. Midland, TX 79701

Pursuant to 19.15.36.15.E NMAC, the operator is required to compare the vadose results “to the higher of the PQL [Practical Quantitative Limit] or the background soil concentrations to determine whether a release has occurred.” OCD’s review of the administrative files for the facility resulted in the discovery of the initial facility background data set from April 2006. The April 13, 2006 background data set provided results for the following 34 analytes: sodium, calcium, magnesium, potassium, conductivity, total alkalinity, chloride, sulfate, bicarbonate, carbonate, pH, total dissolved solids, arsenic, silver, barium, cadmium, chromium, lead, mercury, selenium, aluminum, cobalt, copper, iron, manganese, molybdenum, nickel, zinc, gasoline range organics (GRO), diesel range organics (DRO), benzene, toluene, ethyl benzene, and total xylene, which was provided in the May 2014 Bi-Annual Treatment and Vadose Zone Monitoring Report. The April 13, 2006 background data set demonstrated a detection of DRO at 186 mg/kg. The May 2014 report also included a sheet identified as “New Mexico Limits” and a regulatory reference of “Rule 53 G.(e).” The regulatory reference indicates that this was proposed landfarm closure language for Part 36 during the rulemaking hearing. This language was not adopted by the Oil Conservation Commission and is not effective or applicable for the comparison to vadose zone results. The review of the September 2014 New Background Report resulted in the detection of toluene at a concentration of 0.0819 mg/kg in the vadose zone, 2 feet below the ground surface in native soils. The cover letter did not address or mention the detection. OCD also discovered that TPH by EPA method 418.1 was run with the reporting limit of 100 mg/kg for the facility background. A reporting limit of 100 mg/kg for TPH by EPA method 418.1 is too high to establish the facility background. It assumes that the native soils can be contaminated up to 100 ppm in TPH. OCD is unable to accept a PQL of 100 mg/kg as background for TPH. Please re-establish background for TPH by 418.1 or an equivalent method capable of demonstrating a carbon range from C₆ to C₃₆. Also, OCD is unsure how the two (2) background data sets will be used for future monitoring. Please provide OCD a demonstration to establish the facility background and/or PQLs. If statistics are used in the demonstration, please provide references from EPA statistical guidance documents to support proposed statistical methods.

OCD compared the April 2006 background data set to the May 2014 bi-annual treatment zone and vadose zone monitoring results, since the 2006 background data was the only background available at the time of assessment. OCD determined common exceedances to all cells for calcium, magnesium, potassium, arsenic, manganese, iron, zinc, and sulfate, and a detection of TPH at 136 mg/kg in Cell 1, 145 mg/kg in Cell 2, and 145 mg/kg in Cell 3 in the bi-annual vadose zone monitoring results. None of the exceedances were recognized in the assessment or recommended for the release response sampling of 19.15.36.15.E.(5) NMAC. The assessment provided in the report’s cover letter stated “I compared the vadose sampling to the “background” test as required, and found no problems.” Since the 2006 background data set was provided with this submittal, it is assumed it was used for the comparison demonstration. The vadose zone was not sampled for Cell 4, only the treatment zone was sampled during this event. The bi-annual treatment zone results demonstrated chloride concentrations of 2240 mg/kg in Cell 2 and 736 mg/kg in Cell 4. November 16, 2004 facility permit application identifies the depth of ground water to be approximately 75 below the ground surface. Pursuant to Part 36, this would limit the waste acceptance criteria of contaminated soils for chlorides to less than 500 mg/kg. Since the waste acceptance criteria concentration will also be the closure standard for chlorides, this will create issues at closure.

OCD compared the September 2014 new background data set to the September 2014 release response results for Cells 1-3 and the five year vadose zone sampling results for Cell 4. In regards to the release response results for compliance with 19.15.36.15.E.(5) NMAC, Cell 1 demonstrated an exceedance for nitrates and concentrations slightly above the September 2014 background data set for arsenic, barium, cadmium, chromium, lead, and fluoride. Cell 2 demonstrated an exceedance for nitrates and concentrations slightly above the 2014 background data set for arsenic, barium, cadmium, chromium, lead, manganese, uranium, sulfate, and fluoride. Cell 3 demonstrated an exceedance for nitrates and concentrations slightly above the 2014 background data set for arsenic, barium, cadmium, chromium, lead, iron, silver, sulfate, and fluoride. None of these exceedances were recognized in the assessment nor was a response action plan proposed or included with the submittal, as required of 19.15.36.15.E.(5) NMAC. The assessment provided in the report's cover letter stated "The analytical for all testing was compared to the new background and lab PQL, and all was in compliance." OCD had to use the April 2006 and September 2014 background data sets complete the comparison to the September 2014 five year vadose zone sampling results for Cell 4. The laboratory chain of custody indicates that the vadose zone sampling event was an attempt to combine the annual vadose zone sampling required by permit condition and compliance with the five year vadose zone monitoring of 19.15.36.15.E.(3) NMAC. Also, this seemed to be an attempt to make up the missing vadose sample for Cell 4 from the May 2014 sampling event. The 2006 background data set includes major anions and all of the major cations required to complete the comparison to annual vadose zone sampling required by permit condition, that were not included in the 2014 new background data set. When compared to the 2014 background data set, OCD determined common analyte exceedances for sulfate, barium, iron, zinc, arsenic, cadmium, chromium, copper, lead, manganese, selenium, and silver. When compared to the 2006 background data set, OCD determined common analyte exceedances for calcium, magnesium, sodium, and potassium. None of the exceedances were recognized in the assessment. In both sampling events, the release response and five year, sulfate and TPH by EPA method 418.1 were run with reporting limits of 100 mg/kg. Please ensure that the laboratory's reporting limit does not exceed the established background and/or PQLs for all future vadose zone sampling events.

On September 10, 2014 OCD approved the High Chloride Soil Identification, Isolation, and Removal Plan for Cell 2 and 4. The plan requires OCD approval to excavate the high chloride soils down to the native ground surface and haul the soils to an OCD approved landfill. OCD has not received any request since the plan was approved. Please provide OCD an update on the status of the work performed under the approved plan.

Please note that submittal of treatment zone monitoring results alone does not constitute a request for a successive/additional lift. Furthermore, the permit condition specifies "Authorization from the OCD must be obtained prior to application of successive lifts and/or removal of remediated soils." OCD requires such request to be made under a separate cover from other reporting and include the supporting analytical results and an updated facility map that illustrates and identifies the individual landfarm cells within the facility boundary and indicate the approximate location within the landfarm cells in which the samples were obtained.

Please provide OCD a copy of Jay Dan's modification request and OCD approval in order to continue the semi-annual sampling frequency within 45 days of the date of this letter. Please provide OCD a demonstration to establish the facility background within 45 days of the date of

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Please provide OCD a copy of Jay Dan's modification request and OCD approval in order to continue the semi-annual sampling frequency within 45 days of the date of this letter. Please provide OCD a demonstration to establish the facility background within 45 days of the date of

JAY DAN LANDFARM

PERMIT (NM 01-0045)



October 12, 2014

Mr. Brad Jones
Oil Conservation Division
New Mexico Energy, Minerals and
Natural Resources Department
1220 S. St. Francis Drive
Santa Fe, NM 87505

Re: Jay Dan Landfarm (NM1-0045)
5-Year Monitoring Results

Mr. Jones,

Larson & Associates, Inc. has been requested by Jay Dan Landfarm (NM-01-0045) to review and transmit the laboratory analytical results for 5-year monitoring. The 5-year monitoring samples were collected from Cell 4 on July 29, 2014. Please contact Danny Watson with Jay Dan at (575) 391-0537 or me if you have questions.

Sincerely,

LARSON & ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read 'Mark J. Larson', is written over a faint, circular, light-gray watermark or background graphic.

Mark J. Larson, P.G.
Sr. Project Manager/President
mark@laenvironmental.com

cc: Danny Watson

2014 OCT 12 PM 1:12

RECEIVED
OCT 12 2014

September 23, 2014

NMOCD Environmental
ATTN: Brad Jones
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: JayDan Landfarm
5 yr. test Cell 4
Additional Vadose Test Cells 1, 2, 3

Mr. Brad Jones:

Find within this report additional testing as directed. The final 5 yr. test for cell 4 and additional Vadose test for cells 1, 2 and 3.

The analytical for all testing was compared to the new background and lab PQL, and all was in compliance.

We will now move on to the salt remediation in the treatment zones for cells 2 and 4.

If you have any questions, please call.

Sincerely,

A handwritten signature in black ink, appearing to read 'Danny Watson', with a long horizontal flourish extending to the right.

JayDan Landfarm
Danny Watson
Box 632
Lovington, NM 88260
575-631-3482

VADOSE

TEST

August 31, 2014

GREG WATSON

JAY DAN LANDFARM

PO BOX 632

LOVINGTON, NM 88260

RE: JAY DAN LF (NM1-0045)

Enclosed are the results of analyses for samples received by the laboratory on 08/05/14 9:30.

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

Cardinal Laboratories is accredited 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)

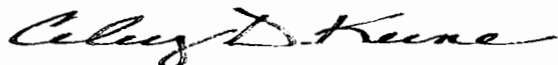
Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

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)

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

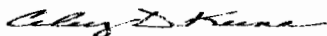
Analytical Results For:JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:Reported:
31-Aug-14 11:56

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL 1 - A	H402388-01	Soil	04-Aug-14 09:40	05-Aug-14 09:30
CELL 1 - B	H402388-02	Soil	04-Aug-14 10:00	05-Aug-14 09:30
CELL 1 - C	H402388-03	Soil	04-Aug-14 10:25	05-Aug-14 09:30
CELL 1 - D	H402388-04	Soil	04-Aug-14 11:10	05-Aug-14 09:30
CELL 2 - A	H402388-05	Soil	04-Aug-14 11:50	05-Aug-14 09:30
CELL 2 - B	H402388-06	Soil	04-Aug-14 12:35	05-Aug-14 09:30
CELL 2 - C	H402388-07	Soil	04-Aug-14 13:10	05-Aug-14 09:30
CELL 2 - D	H402388-08	Soil	04-Aug-14 13:35	05-Aug-14 09:30

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived 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 damage 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.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:56

CELL 1 - A
H402388-01 (Soil)

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

Chloride	ND		16.0	mg/kg	4	4080710	AP	11-Aug-14	4500-Cl-B	
pH*	8.02		0.100	pH Units	1	4081203	AP	12-Aug-14	9045	
Phenols	ND		0.6	mg/kg dry wt.	1	4083105	CK	19-Aug-14	EPA9065	SUB-AL
Sulfate	ND		40.0	mg/kg	4	4081306	AP	13-Aug-14	375.4	

Organic Compounds

TPH 418.1	ND		100	mg/kg	10	4080611	CK	18-Aug-14	418.1	
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Radionuclides
SUB-RS

Radium-226	0.5 ± 0.1			pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Radium-228	ND		1.0	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Total Radium	0.5 ± 0.1			pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	

PCBs BY GC/ECD
SUB-SS

PCB 1016	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1221	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1232	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1242	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1248	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1254	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1260	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
Surrogate: Tetrachloro-meta-xylene			79.6 %	35-140		4083104	CK	09-Aug-14	8082	


Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Methylene chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence or any other cause whatsoever shall be deemed waived 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 damage 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.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:56

CELL 1 - A
H402388-01 (Soil)

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

Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Chloroform*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Benzene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Toluene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	4080701	MS	07-Aug-14	8260	
o-Xylene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Total Xylenes*	ND	0.150	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Naphthalene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Surrogate: Dibromofluoromethane		88.6 %	70-130		4080701	MS	07-Aug-14	8260	
Surrogate: Toluene-d8		112 %	70-130		4080701	MS	07-Aug-14	8260	
Surrogate: 4-Bromofluorobenzene		94.2 %	70-130		4080701	MS	07-Aug-14	8260	

Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Acenaphthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Fluorene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Phenanthrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

CELL 1 - A
H402388-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Carbazole	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Fluoranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Chrysene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Surrogate: Nitrobenzene-d5		80.0 %	16.1-91.8		4080102	CK	19-Aug-14	8270C	
Surrogate: 2-Fluorobiphenyl		97.4 %	27.2-92.9		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: Terphenyl-d14		122 %	21.3-96.1		4080102	CK	19-Aug-14	8270C	S-04

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND	1.00	mg/kg dry	100	B408129	KLJ	14-Aug-14	EPA9012 B	
% Dry Solids	97.0		%	1	B408097	LLG	13-Aug-14	EPA160.3	H2

Soluble (DI Water Extraction)

Fluoride	2.45	0.800	mg/kg dry	4	B408235	ABP	26-Aug-14	4500-F- C	
Nitrate/Nitrite as N	41.0	1.00	mg/kg dry	50	B408161	KLJ	19-Aug-14	EPA353.2	
Nitrite as N	ND	0.200	mg/kg dry	10	B408065	KLJ	08-Aug-14	EPA353.2	

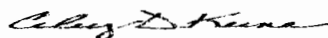
Total Metals by ICP

Barium	84.8	1.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Iron	8270	5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:56

CELL 1 - A
H402388-01 (Soil)

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

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Zinc	30.0		5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	

Total Metals by ICPMS

Arsenic	2.97		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Cadmium	0.709		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Chromium	8.44		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Copper	6.11		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Lead	8.10		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Manganese	147		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Uranium	0.324		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	

Total Mercury by CVAA

Mercury	ND		0.0990	mg/kg dry	480	B408163	JGS	20-Aug-14	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

CELL 1 - B
H402388-02 (Soil)

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

Chloride	ND		16.0	mg/kg	4	4080710	AP	11-Aug-14	4500-Cl-B	
pH*	8.08		0.100	pH Units	1	4081203	AP	12-Aug-14	9045	
Phenols	ND		0.5	mg/kg dry wt.	1	4083105	CK	15-Aug-14	EPA9065	SUB-AL
Sulfate	ND		40.0	mg/kg	4	4081306	AP	13-Aug-14	375.4	

Organic Compounds

TPH 418.1	ND		100	mg/kg	10	4080611	CK	18-Aug-14	418.1	
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Radionuclides
SUB-RS

Radium-226	ND		0.30	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Radium-228	ND		1.0	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Total Radium	ND		1.0	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	

PCBs BY GC/ECD
SUB-SS

PCB 1016	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1221	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1232	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1242	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1248	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1254	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1260	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	

Surrogate: Tetrachloro-meta-xylene 54.3 % 35-140 4083104 CK 09-Aug-14 8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Methylene chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Chloroform*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:56

CELL 1 - B
H402368-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Carbon tetrachloride*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Benzene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Toluene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	4080701	MS	07-Aug-14	8260	
o-Xylene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Total Xylenes*	ND	0.150	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Naphthalene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Surrogate: Dibromofluoromethane		91.1 %	70-130		4080701	MS	07-Aug-14	8260	
Surrogate: Toluene-d8		112 %	70-130		4080701	MS	07-Aug-14	8260	
Surrogate: 4-Bromofluorobenzene		99.3 %	70-130		4080701	MS	07-Aug-14	8260	

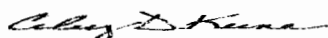
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Acenaphthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Fluorene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Phenanthrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Carbazole	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

CELL 1 - B
H402388-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Fluoranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Chrysene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Surrogate: Nitrobenzene-d5		100 %	16.1-91.8		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: 2-Fluorobiphenyl		119 %	27.2-92.9		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: Terphenyl-d14		146 %	21.3-96.1		4080102	CK	19-Aug-14	8270C	S-04

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND	1.00	mg/kg dry	100	B408129	KLJ	14-Aug-14	EPA9012 B	
% Dry Solids	97.2		%	1	B408097	LLG	13-Aug-14	EPA160.3	H2

Soluble (DI Water Extraction)

Fluoride	3.53	0.800	mg/kg dry	4	B408235	ABP	26-Aug-14	4500-F- C	
Nitrate/Nitrite as N	21.3	1.00	mg/kg dry	50	B408161	KLJ	19-Aug-14	EPA353.2	
Nitrite as N	0.306	0.200	mg/kg dry	10	B408065	KLJ	08-Aug-14	EPA353.2	

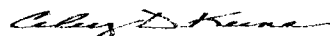
Total Metals by ICP

Barium	54.4	1.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Iron	4570	5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Zinc	18.4	5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:56

CELL 1 - B
H402388-02 (Soil)

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

Arsenic	2.06		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Cadmium	0.324		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Chromium	5.66		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Copper	2.27		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Lead	4.52		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Manganese	54.4		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Uranium	0.230		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	

Total Mercury by CVAA

Mercury	ND		0.0998	mg/kg dry	485	B408163	JGS	20-Aug-14	EPA7471	
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Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

CELL 1 - C H402388-03 (Soil)

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

Inorganic Compounds

Chloride	ND		16.0	mg/kg	4	4080710	AP	11-Aug-14	4500-Cl-B	
pH*	7.95		0.100	pH Units	1	4081203	AP	12-Aug-14	9045	
Phenols	ND		0.5	mg/kg dry wt.	1	4083105	CK	15-Aug-14	EPA9065	SUB-AL
Sulfate	45.1		40.0	mg/kg	4	4081306	AP	13-Aug-14	375.4	

Organic Compounds

TPH 418.1	ND		100	mg/kg	10	4080611	CK	18-Aug-14	418.1	
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Radionuclides

SUB-RS

Radium-226	ND		0.40	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Radium-228	ND		0.70	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Total Radium	ND		0.70	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	

PCBs BY GC/ECD

SUB-SS

PCB 1016	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1221	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1232	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1242	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1248	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1254	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1260	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	

Surrogate: Tetrachloro-meta-xylene 50.1 % 35-140 4083104 CK 09-Aug-14 8082


Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Methylene chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Chloroform*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

CELL 1 - C
H402388-03 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Carbon tetrachloride*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Benzene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Trichloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Toluene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Tetrachloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Ethylbenzene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
m-p Xylenes*	ND	0.100	mg/kg	50	4080701	MS	07-Aug-14	8260
o-Xylene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Total Xylenes*	ND	0.150	mg/kg	50	4080701	MS	07-Aug-14	8260
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Naphthalene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Surrogate: Dibromofluoromethane		92.0 %	70-130		4080701	MS	07-Aug-14	8260
Surrogate: Toluene-d8		111 %	70-130		4080701	MS	07-Aug-14	8260
Surrogate: 4-Bromofluorobenzene		96.5 %	70-130		4080701	MS	07-Aug-14	8260


Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
2-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
1-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Acenaphthylene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Acenaphthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Fluorene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Phenanthrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Carbazole	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

CELL 1 - C
H402388-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Fluoranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Chrysene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Surrogate: Nitrobenzene-d5		51.5 %	16.1-91.8		4080102	CK	19-Aug-14	8270C	
Surrogate: 2-Fluorobiphenyl		60.8 %	27.2-92.9		4080102	CK	19-Aug-14	8270C	
Surrogate: Terphenyl-d14		72.6 %	21.3-96.1		4080102	CK	19-Aug-14	8270C	

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND	1.00	mg/kg dry	100	B408129	KLJ	14-Aug-14	EPA9012 B	
% Dry Solids	95.5		%	1	B408097	LLG	13-Aug-14	EPA160.3	H2

Soluble (DI Water Extraction)

Fluoride	1.97	0.800	mg/kg dry	4	B408235	ABP	26-Aug-14	4500-F- C	
Nitrate/Nitrite as N	28.1	1.00	mg/kg dry	50	B408161	KLJ	19-Aug-14	EPA353.2	
Nitrite as N	0.286	0.200	mg/kg dry	10	B408065	KLJ	08-Aug-14	EPA353.2	


Total Metals by ICP

Barium	95.5	1.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Iron	8150	5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Zinc	29.8	5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:Reported:
31-Aug-14 11:56**CELL 1 - C**
H402388-03 (Soil)

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

Arsenic	2.93		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Cadmium	0.504		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Chromium	9.59		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Copper	7.22		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Lead	8.01		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Manganese	167		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Uranium	0.393		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	

Total Mercury by CVAA

Mercury	ND		0.104	mg/kg dry	495	B408163	JGS	20-Aug-14	EPA7471	
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Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:56

CELL 1 - D
H402388-04 (Soil)

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

Chloride	ND		16.0	mg/kg	4	4080710	AP	11-Aug-14	4500-Cl-B	
pH*	7.78		0.100	pH Units	1	4081203	AP	12-Aug-14	9045	
Phenols	ND		0.6	mg/kg dry wt.	1	4083105	CK	19-Aug-14	EPA9065	SUB-AL
Sulfate	ND		40.0	mg/kg	4	4081306	AP	13-Aug-14	375.4	

Organic Compounds

TPH 418.1	ND		100	mg/kg	10	4080611	CK	18-Aug-14	418.1	
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Radionuclides
SUB-RS

Radium-226	ND		0.60	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Radium-228	ND		0.90	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Total Radium	ND		0.90	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	

PCBs BY GC/ECD
SUB-SS

PCB 1016	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1221	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1232	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1242	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1248	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1254	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1260	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	

Surrogate: Tetrachloro-meta-xylene 62.2 % 35-140 4083104 CK 09-Aug-14 8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Methylene chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Chloroform*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

CELL 1 - D
H402388-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Carbon tetrachloride*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Benzene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Toluene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	4080701	MS	07-Aug-14	8260	
o-Xylene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Total Xylenes*	ND	0.150	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Naphthalene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Surrogate: Dibromofluoromethane		87.9 %		70-130	4080701	MS	07-Aug-14	8260	
Surrogate: Toluene-d8		110 %		70-130	4080701	MS	07-Aug-14	8260	
Surrogate: 4-Bromofluorobenzene		92.8 %		70-130	4080701	MS	07-Aug-14	8260	

Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Acenaphthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Fluorene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Phenanthrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Carbazole	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

CELL 1 - D H402388-04 (Soil)

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

Semivolatile Organic Compounds by GCMS

Fluoranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Chrysene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Surrogate: Nitrobenzene-d5		105 %	16.1-91.8		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: 2-Fluorobiphenyl		130 %	27.2-92.9		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: Terphenyl-d14		173 %	21.3-96.1		4080102	CK	19-Aug-14	8270C	S-04

Green Analytical Laboratories

General Chemistry

Cyanide, Total	ND	1.00	mg/kg dry	100	B408150	KLJ	18-Aug-14	EPA9012 B	
% Dry Solids	96.5		%	1	B408097	LLG	13-Aug-14	EPA160.3	H2

Soluble (DI Water Extraction)

Fluoride	2.71	0.800	mg/kg dry	4	B408235	ABP	26-Aug-14	4500-F- C	
Nitrate/Nitrite as N	27.2	0.400	mg/kg dry	20	B408161	KLJ	19-Aug-14	EPA353.2	
Nitrite as N	ND	0.200	mg/kg dry	10	B408065	KLJ	08-Aug-14	EPA353.2	

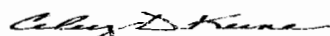
Total Metals by ICP

Barium	77.2	1.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Iron	7240	5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Zinc	26.9	5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:Reported:
31-Aug-14 11:56**CELL 1 - D**
H402388-04 (Soil)

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

Arsenic	2.55		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Cadmium	0.406		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Chromium	8.53		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Copper	5.26		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Lead	7.36		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Manganese	139		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Uranium	0.302		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	

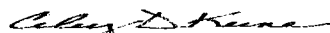
Total Mercury by CVAA

Mercury	ND		0.0995	mg/kg dry	480	B408163	JGS	20-Aug-14	EPA7471	
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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

CELL 2 - A H402368-05 (Soil)

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

Inorganic Compounds

Chloride	ND		16.0	mg/kg	4	4080710	AP	11-Aug-14	4500-Cl-B	
pH*	8.08		0.100	pH Units	1	4081204	AP	12-Aug-14	9045	
Phenols	ND		0.5	mg/kg dry wt.	1	4083105	CK	15-Aug-14	EPA9065	SUB-AL
Sulfate	49.0		40.0	mg/kg	4	4081306	AP	13-Aug-14	375.4	

Organic Compounds

TPH 418.1	ND		100	mg/kg	10	4080611	CK	18-Aug-14	418.1	
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Radionuclides

SUB-RS

Radium-226	ND		0.50	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Radium-228	ND		0.70	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Total Radium	ND		0.70	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	

PCBs BY GC/ECD

SUB-SS

PCB 1016	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1221	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1232	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1242	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1248	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1254	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1260	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	

Surrogate: Tetrachloro-meta-xylene 53.0 % 35-140 4083104 CK 09-Aug-14 8082

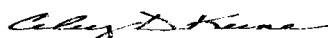
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Methylene chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Chloroform*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

CELL 2 - A H402388-05 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Carbon tetrachloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,1-Trichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Benzene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Trichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Toluene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Tetrachloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2-Trichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dibromoethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Ethylbenzene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
m-p Xylenes*	ND		0.100	mg/kg	50	4080701	MS	07-Aug-14	8260	
o-Xylene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Total Xylenes*	ND		0.150	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2,2-Tetrachloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Naphthalene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Surrogate: Dibromofluoromethane			88.0 %	70-130		4080701	MS	07-Aug-14	8260	
Surrogate: Toluene-d8			110 %	70-130		4080701	MS	07-Aug-14	8260	
Surrogate: 4-Bromofluorobenzene			97.9 %	70-130		4080701	MS	07-Aug-14	8260	

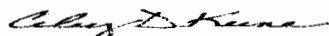
Semivolatile Organic Compounds by GCMS

Naphthalene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
1-Methylnaphthalene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Acenaphthylene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Acenaphthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Fluorene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Phenanthrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Anthracene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Carbazole	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

CELL 2 - A
H402388-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Fluoranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Chrysene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Surrogate: Nitrobenzene-d5		99.3 %	16.1-91.8		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: 2-Fluorobiphenyl		124 %	27.2-92.9		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: Terphenyl-d14		164 %	21.3-96.1		4080102	CK	19-Aug-14	8270C	S-04

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND	1.00	mg/kg dry	100	B408150	KLJ	18-Aug-14	EPA9012 B	
% Dry Solids	96.9		%	1	B408097	LLG	13-Aug-14	EPA160.3	H2

Soluble (DI Water Extraction)

Fluoride	4.25	0.800	mg/kg dry	4	B408235	ABP	26-Aug-14	4500-F- C	
Nitrate/Nitrite as N	15.6	0.400	mg/kg dry	20	B408161	KLJ	19-Aug-14	EPA353.2	
Nitrite as N	ND	0.200	mg/kg dry	10	B408065	KLJ	08-Aug-14	EPA353.2	

Total Metals by JCP

Barium	80.3	1.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Iron	6050	5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Zinc	24.8	5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:56

CELL 2 - A
H402388-05 (Soil)

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

Arsenic	2.40		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Cadmium	0.322		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Chromium	6.75		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Copper	4.26		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Lead	5.31		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Manganese	79.2		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Uranium	0.316		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	


Total Mercury by CVAA

Mercury	ND		0.0990	mg/kg dry	480	B408163	JGS	20-Aug-14	EPA7471	
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Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

CELL 2 - B
H402388-06 (Soil)

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

Chloride	ND	16.0	mg/kg	4	4080710	AP	11-Aug-14	4500-Cl-B	
pH*	8.06	0.100	pH Units	1	4081204	AP	12-Aug-14	9045	
Phenols	ND	0.7	mg/kg dry wt.	1	4083105	CK	19-Aug-14	EPA9065	SUB-AL
Sulfate	49.4	40.0	mg/kg	4	4081306	AP	13-Aug-14	375.4	

Organic Compounds

TPH 418.1	ND	100	mg/kg	10	4080611	CK	18-Aug-14	418.1	
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Radionuclides
SUB-RS

Radium-226	ND	0.50	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Radium-228	1.0 ± 0.7		pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Total Radium	1.0 ± 0.7		pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	

PCBs BY GC/ECD
SUB-SS

PCB 1016	ND	10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1221	ND	10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1232	ND	10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1242	ND	10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1248	ND	10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1254	ND	10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1260	ND	10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	

Surrogate: Tetrachloro-meta-xylene		66.2 %	35-140	4083104	CK	09-Aug-14	8082	
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Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Methylene chloride*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Chloroform*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

CELL 2 - B
H402388-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Carbon tetrachloride*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Benzene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Toluene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	4080701	MS	07-Aug-14	8260	
o-Xylene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Total Xylenes*	ND	0.150	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Naphthalene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Surrogate: Dibromofluoromethane		88.7 %	70-130		4080701	MS	07-Aug-14	8260	
Surrogate: Toluene-d8		111 %	70-130		4080701	MS	07-Aug-14	8260	
Surrogate: 4-Bromofluorobenzene		97.3 %	70-130		4080701	MS	07-Aug-14	8260	

Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Acenaphthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Fluorene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Phenanthrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Carbazole	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

CELL 2 - B
H402388-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Fluoranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Pyrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Chrysene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Surrogate: Nitrobenzene-d5			98.9 %	16.1-91.8		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: 2-Fluorobiphenyl			124 %	27.2-92.9		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: Terphenyl-d14			159 %	21.3-96.1		4080102	CK	19-Aug-14	8270C	S-04

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND		1.00	mg/kg dry	100	B408150	KLJ	18-Aug-14	EPA9012 B	
% Dry Solids	98.5			%	1	B408097	LLG	13-Aug-14	EPA160.3	H2

Soluble (DI Water Extraction)

Fluoride	4.36		0.800	mg/kg dry	4	B408235	ABP	26-Aug-14	4500-F- C	
Nitrate/Nitrite as N	13.4		0.400	mg/kg dry	20	B408161	KLJ	19-Aug-14	EPA353.2	
Nitrite as N	ND		0.200	mg/kg dry	10	B408065	KLJ	08-Aug-14	EPA353.2	

Total Metals by JCP

Barium	129		1.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Iron	6350		5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Zinc	28.4		5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:Reported:
31-Aug-14 11:56**CELL 2 - B**
H402388-06 (Soil)

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

Arsenic	3.58		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Cadmium	0.408		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Chromium	7.75		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Copper	4.63		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Lead	6.82		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Manganese	236		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Uranium	0.487		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	

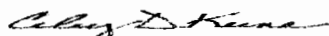
Total Mercury by CVAA

Mercury	ND		0.0995	mg/kg dry	490	B408163	JGS	20-Aug-14	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

CELL 2 - C
H402388-07 (Soil)

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

Chloride	ND	16.0	mg/kg	4	4080710	AP	11-Aug-14	4500-Cl-B		
pH*	7.97	0.100	pH Units	1	4081204	AP	12-Aug-14	9045		
Phenols	ND	0.4	mg/kg dry wt.	1	4083105	CK	19-Aug-14	EPA9065		SUB-AL
Sulfate	53.6	40.0	mg/kg	4	4081306	AP	13-Aug-14	375.4		

Organic Compounds

TPH 418.1	ND	100	mg/kg	10	4080611	CK	18-Aug-14	418.1		
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Radionuclides
SUB-RS

Radium-226	0.6 ± 0.1		pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE		
Radium-228	ND	0.80	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE		
Total Radium	0.6 ± 0.1		pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE		

PCBs BY GC/ECD
SUB-SS

PCB 1016	ND	10.0	ug/kg	1	4083104	CK	09-Aug-14	8082		
PCB 1221	ND	10.0	ug/kg	1	4083104	CK	09-Aug-14	8082		
PCB 1232	ND	10.0	ug/kg	1	4083104	CK	09-Aug-14	8082		
PCB 1242	ND	10.0	ug/kg	1	4083104	CK	09-Aug-14	8082		
PCB 1248	ND	10.0	ug/kg	1	4083104	CK	09-Aug-14	8082		
PCB 1254	ND	10.0	ug/kg	1	4083104	CK	09-Aug-14	8082		
PCB 1260	ND	10.0	ug/kg	1	4083104	CK	09-Aug-14	8082		
Surrogate: Tetrachloro-meta-xylene		70.8 %	35-140		4083104	CK	09-Aug-14	8082		

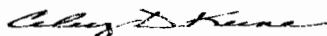
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260		
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260		
Methylene chloride*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260		
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260		
Chloroform*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

CELL 2 - C
H402388-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Carbon tetrachloride*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Benzene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Trichloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Toluene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Tetrachloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Ethylbenzene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
m-p Xylenes*	ND	0.100	mg/kg	50	4080701	MS	07-Aug-14	8260
o-Xylene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Total Xylenes*	ND	0.150	mg/kg	50	4080701	MS	07-Aug-14	8260
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Naphthalene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Surrogate: Dibromofluoromethane		84.3 %	70-130		4080701	MS	07-Aug-14	8260
Surrogate: Toluene-d8		110 %	70-130		4080701	MS	07-Aug-14	8260
Surrogate: 4-Bromofluorobenzene		91.7 %	70-130		4080701	MS	07-Aug-14	8260

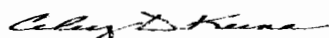
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
2-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
1-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Acenaphthylene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Acenaphthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Fluorene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Phenanthrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Carbazole	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:56

CELL 2 - C
H402388-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Fluoranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Pyrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Chrysene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Surrogate: Nitrobenzene-d5			104 %	16.1-91.8		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: 2-Fluorobiphenyl			128 %	27.2-92.9		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: Terphenyl-d14			166 %	21.3-96.1		4080102	CK	19-Aug-14	8270C	S-04

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND		1.00	mg/kg dry	100	B408150	KLJ	18-Aug-14	EPA9012 B	
% Dry Solids	95.6			%	1	B408097	LLG	13-Aug-14	EPA160.3	H2

Soluble (DI Water Extraction)

Fluoride	4.02		0.800	mg/kg dry	4	B408235	ABP	26-Aug-14	4500-F- C	
Nitrate/Nitrite as N	19.3		0.400	mg/kg dry	20	B408161	KLJ	19-Aug-14	EPA353.2	
Nitrite as N	ND		0.200	mg/kg dry	10	B408065	KLJ	08-Aug-14	EPA353.2	

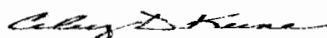
Total Metals by ICP

Barium	124		1.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Iron	6830		5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Zinc	31.0		5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:56

CELL 2 - C
H402388-07 (Soil)

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

Arsenic	3.32		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Cadmium	0.471		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Chromium	8.06		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Copper	4.91		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Lead	5.50		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Manganese	98.9		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Uranium	0.528		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	

Total Mercury by CVAA

Mercury	ND		0.103	mg/kg dry	490	B408163	JGS	20-Aug-14	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

CELL 2 - D H402388-08 (Soil)

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

Inorganic Compounds

Chloride	ND		16.0	mg/kg	4	4080710	AP	11-Aug-14	4500-Cl-B	
pH*	8.05		0.100	pH Units	1	4081204	AP	12-Aug-14	9045	
Phenols	ND		0.4	mg/kg dry wt.	1	4083105	CK	19-Aug-14	EPA9065	SUB-AL
Sulfate	53.0		40.0	mg/kg	4	4081306	AP	13-Aug-14	375.4	

Organic Compounds

TPH 418.1	ND		100	mg/kg	10	4080611	CK	18-Aug-14	418.1	
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Radionuclides

SUB-RS

Radium-226	0.7 ± 0.1			pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Radium-228	1.5 ± 0.9			pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Total Radium	2.2 ± 0.9			pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	

PCBs BY GC/ECD

SUB-SS

PCB 1016	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1221	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1232	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1242	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1248	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1254	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1260	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	

Surrogate: Tetrachloro-meta-xylene			57.0 %	35-140		4083104	CK	09-Aug-14	8082	
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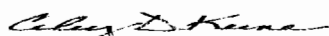
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Methylene chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Chloroform*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

CELL 2 - D
H402388-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Carbon tetrachloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,1-Trichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Benzene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Trichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Toluene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Tetrachloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2-Trichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dibromoethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Ethylbenzene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
m-p Xylenes*	ND		0.100	mg/kg	50	4080701	MS	07-Aug-14	8260	
o-Xylene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Total Xylenes*	ND		0.150	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2,2-Tetrachloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Naphthalene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Surrogate: Dibromofluoromethane			88.1 %	70-130		4080701	MS	07-Aug-14	8260	
Surrogate: Toluene-d8			111 %	70-130		4080701	MS	07-Aug-14	8260	
Surrogate: 4-Bromofluorobenzene			97.0 %	70-130		4080701	MS	07-Aug-14	8260	

Semivolatile Organic Compounds by GCMS

Naphthalene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
1-Methylnaphthalene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Acenaphthylene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Acenaphthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Fluorene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Phenanthrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Anthracene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Carbazole	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:56

CELL 2 - D
H402388-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Fluoranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Chrysene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Surrogate: Nitrobenzene-d5		108 %	16.1-91.8		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: 2-Fluorobiphenyl		130 %	27.2-92.9		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: Terphenyl-d14		162 %	21.3-96.1		4080102	CK	19-Aug-14	8270C	S-04

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND	1.00	mg/kg dry	100	B408150	KLJ	18-Aug-14	EPA9012 B	
% Dry Solids	97.4		%	1	B408097	LLG	13-Aug-14	EPA160.3	H2

Soluble (DI Water Extraction)

Fluoride	3.15	0.800	mg/kg dry	4	B408235	ABP	26-Aug-14	4500-F- C	
Nitrate/Nitrite as N	14.3	0.400	mg/kg dry	20	B408161	KLJ	19-Aug-14	EPA353.2	
Nitrite as N	ND	0.200	mg/kg dry	10	B408065	KLJ	08-Aug-14	EPA353.2	


Total Metals by ICP

Barium	95.4	1.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Iron	7860	5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Zinc	32.1	5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	

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PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
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CELL 2 - D
H402388-08 (Soil)

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

Arsenic	3.12	0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Cadmium	0.477	0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Chromium	8.45	1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Copper	5.92	0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Lead	7.29	0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Manganese	128	0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Selenium	ND	1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Silver	ND	0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Uranium	0.334	0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A

Total Mercury by CVAA

Mercury	ND	0.101	mg/kg dry	490	B408163	JGS	20-Aug-14	EPA7471
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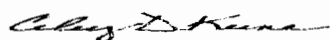
Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080710 - 1:4 DI Water										
Blank (4080710-BLK1)				Prepared & Analyzed: 07-Aug-14						
Chloride	ND	16.0	mg/kg							
LCS (4080710-BS1)				Prepared & Analyzed: 07-Aug-14						
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (4080710-BSD1)				Prepared & Analyzed: 07-Aug-14						
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	
Batch 4081203 - NO PREP										
LCS (4081203-BS1)				Prepared & Analyzed: 12-Aug-14						
pH	7.15		pH Units	7.00		102	90-110			
Duplicate (4081203-DUP1)				Source: H402339-01 Prepared & Analyzed: 12-Aug-14						
pH	7.45	0.100	pH Units		7.43			0.269	20	
Batch 4081204 - NO PREP										
LCS (4081204-BS1)				Prepared & Analyzed: 12-Aug-14						
pH	7.09		pH Units	7.00		101	90-110			
Duplicate (4081204-DUP1)				Source: H402388-05 Prepared & Analyzed: 12-Aug-14						
pH	8.12	0.100	pH Units		8.08			0.494	20	
Batch 4081306 - General Prep - Wet Chem										
Blank (4081306-BLK1)				Prepared & Analyzed: 13-Aug-14						
Sulfate	ND	10.0	mg/kg							

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Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:56

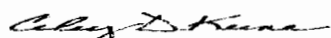
Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4081306 - General Prep - Wet Chem										
LCS (4081306-BS1)				Prepared & Analyzed: 13-Aug-14						
Sulfate	16.1	10.0	mg/kg	20.0		80.7	80-120			
LCS Dup (4081306-BSD1)				Prepared & Analyzed: 13-Aug-14						
Sulfate	16.3	10.0	mg/kg	20.0		81.6	80-120	1.11	20	
Batch 4083105 - General Prep										
Blank (4083105-BLK1)				Prepared: 15-Aug-14 Analyzed: 19-Aug-14						
Phenols	ND	0.5	mg/kg dry wt.							
LCS (4083105-BS1)				Prepared: 15-Aug-14 Analyzed: 19-Aug-14						
Phenols	0.4		mg/kg	0.400		90.2	70-130			
Matrix Spike (4083105-MS1)				Source: H402388-01 Prepared: 15-Aug-14 Analyzed: 19-Aug-14						
Phenols	19.7		mg/kg	20.3	0.0	97.0	70-130			
Matrix Spike Dup (4083105-MSD1)				Source: H402388-01 Prepared: 15-Aug-14 Analyzed: 19-Aug-14						
Phenols	19.1		mg/kg	20.3	0.0	94.1	70-130	3.09	20	

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 Project Number: JAY DAN LF
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 31-Aug-14 11:56

Organic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4080611 - Solvent Extraction
Blank (4080611-BLK1)

Prepared & Analyzed: 18-Aug-14

TPH 418.1 ND 100 mg/kg

LCS (4080611-BS1)

Prepared & Analyzed: 18-Aug-14

TPH 418.1 5340 100 mg/kg 5000 107 80-120

LCS Dup (4080611-BSD1)


Prepared & Analyzed: 18-Aug-14

TPH 418.1 5230 100 mg/kg 5000 105 80-120 2.06 20

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PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

PCBs BY GC/ECD - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4083104 - General Prep
Blank (4083104-BLK1)

Prepared: 06-Aug-14 Analyzed: 09-Aug-14

PCB 1016	ND	10.0	ug/kg						
PCB 1221	ND	10.0	ug/kg						
PCB 1232	ND	10.0	ug/kg						
PCB 1242	ND	10.0	ug/kg						
PCB 1248	ND	10.0	ug/kg						
PCB 1254	ND	10.0	ug/kg						
PCB 1260	ND	10.0	ug/kg						

Surrogate: Tetrachloro-meta-xylene 8.02 ug/L 10.0 80.2 35-140

LCS (4083104-BS1)

Prepared: 06-Aug-14 Analyzed: 09-Aug-14

PCB 1016	63.5		ug/L	100		63.5	40-130		
PCB 1260	110		ug/L	100		110	40-130		

Surrogate: Tetrachloro-meta-xylene 9.78 ug/L 10.0 97.8 35-140

Matrix Spike (4083104-MS1)

Source: H402388-01

Prepared: 06-Aug-14 Analyzed: 09-Aug-14

PCB 1016	62.9		ug/L	100	ND	62.9	40-130		
PCB 1260	66.1		ug/L	100	ND	66.1	40-130		

Surrogate: Tetrachloro-meta-xylene 7.55 ug/L 10.0 75.5 35-140

Matrix Spike Dup (4083104-MSD1)

Source: H402388-01

Prepared: 06-Aug-14 Analyzed: 09-Aug-14

PCB 1016	76.6		ug/L	100	ND	76.6	40-130	19.6	30
PCB 1260	64.9		ug/L	100	ND	64.9	40-130	1.83	30

Surrogate: Tetrachloro-meta-xylene 7.96 ug/L 10.0 79.6 35-140

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PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
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31-Aug-14 11:56

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4080701 - Volatiles
Blank (4080701-BLK1)

Prepared & Analyzed: 07-Aug-14

Vinyl chloride	ND	0.0500	mg/kg							
1,1-Dichloroethene	ND	0.0500	mg/kg							
Methylene chloride	ND	0.0500	mg/kg							
1,1-Dichloroethane	ND	0.0500	mg/kg							
Chloroform	ND	0.0500	mg/kg							
Carbon tetrachloride	ND	0.0500	mg/kg							
1,1,1-Trichloroethane	ND	0.0500	mg/kg							
Benzene	ND	0.0500	mg/kg							
1,2-Dichloroethane	ND	0.0500	mg/kg							
Trichloroethene	ND	0.0500	mg/kg							
Toluene	ND	0.0500	mg/kg							
Tetrachloroethene	ND	0.0500	mg/kg							
1,1,2-Trichloroethane	ND	0.0500	mg/kg							
1,2-Dibromoethane	ND	0.0500	mg/kg							
Ethylbenzene	ND	0.0500	mg/kg							
m-p Xylenes	ND	0.100	mg/kg							
o-Xylene	ND	0.0500	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg							
Naphthalene	ND	0.0500	mg/kg							
Surrogate: Dibromofluoromethane	0.434		mg/kg	0.500		86.9	70-130			
Surrogate: Toluene-d8	0.556		mg/kg	0.500		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.475		mg/kg	0.500		95.1	70-130			

LCS (4080701-BS1)

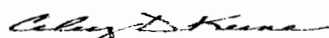
Prepared & Analyzed: 07-Aug-14

Vinyl chloride	1.24	0.0500	mg/kg				70-130			
1,1-Dichloroethene	1.70	0.0500	mg/kg	2.00		85.0	70-130			
Methylene chloride	1.28	0.0500	mg/kg	2.00		64.0	70-130			BS2
1,1-Dichloroethane	1.47	0.0500	mg/kg	2.00		73.5	70-130			
Chloroform	1.42	0.0500	mg/kg	2.00		70.8	70-130			
Carbon tetrachloride	1.68	0.0500	mg/kg	2.00		84.2	70-130			
1,1,1-Trichloroethane	1.55	0.0500	mg/kg	2.00		77.3	70-130			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:56

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4080701 - Volatiles
LCS (4080701-BS1)

Prepared & Analyzed: 07-Aug-14

Benzene	1.56	0.0500	mg/kg	2.00		77.8	70-130			
1,2-Dichloroethane	1.22	0.0500	mg/kg	2.00		60.9	70-130			BS2
Trichloroethene	1.55	0.0500	mg/kg	2.00		77.6	70-130			
Toluene	1.70	0.0500	mg/kg	2.00		84.9	70-130			
Tetrachloroethene	2.26	0.0500	mg/kg	2.00		113	70-130			
1,1,2-Trichloroethane	1.74	0.0500	mg/kg	2.00		86.8	70-130			
1,2-Dibromoethane	1.81	0.0500	mg/kg	2.00		90.7	70-130			
Ethylbenzene	1.66	0.0500	mg/kg	2.00		82.8	70-130			
m-p Xylenes	3.81	0.100	mg/kg				70-130			
o-Xylene	1.81	0.0500	mg/kg	2.00		90.4	70-130			
Total Xylenes	5.62	0.150	mg/kg	6.00		93.7	70-130			
1,1,2,2-Tetrachloroethane	1.76	0.0500	mg/kg	2.00		87.9	70-130			
Naphthalene	1.82	0.0500	mg/kg	2.00		91.0	70-130			
Surrogate: Dibromofluoromethane	0.454		mg/kg	0.500		90.8	70-130			
Surrogate: Toluene-d8	0.531		mg/kg	0.500		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.496		mg/kg	0.500		99.1	70-130			

LCS Dup (4080701-BS1)


Prepared & Analyzed: 07-Aug-14

Vinyl chloride	1.32	0.0500	mg/kg				70-130	5.87	20	
1,1-Dichloroethene	1.87	0.0500	mg/kg	2.00		93.5	70-130	9.55	20	
Methylene chloride	1.41	0.0500	mg/kg	2.00		70.3	70-130	9.34	20	
1,1-Dichloroethane	1.65	0.0500	mg/kg	2.00		82.4	70-130	11.3	20	
Chloroform	1.58	0.0500	mg/kg	2.00		79.1	70-130	11.0	20	
Carbon tetrachloride	1.87	0.0500	mg/kg	2.00		93.3	70-130	10.2	20	
1,1,1-Trichloroethane	1.69	0.0500	mg/kg	2.00		84.4	70-130	8.76	20	
Benzene	1.72	0.0500	mg/kg	2.00		86.1	70-130	10.2	20	
1,2-Dichloroethane	1.36	0.0500	mg/kg	2.00		67.8	70-130	10.7	20	BS2
Trichloroethene	1.74	0.0500	mg/kg	2.00		86.9	70-130	11.3	20	
Toluene	1.88	0.0500	mg/kg	2.00		94.2	70-130	10.4	20	
Tetrachloroethene	2.75	0.0500	mg/kg	2.00		137	70-130	19.4	20	BS1
1,1,2-Trichloroethane	1.95	0.0500	mg/kg	2.00		97.4	70-130	11.5	20	
1,2-Dibromoethane	2.00	0.0500	mg/kg	2.00		99.8	70-130	9.57	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:56

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4080701 - Volatiles
LCS Dup (4080701-BSD1)

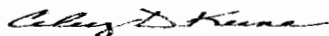
Prepared & Analyzed: 07-Aug-14

Ethylbenzene	1.84	0.0500	mg/kg	2.00		92.2	70-130	10.7	20
m-p Xylenes	4.28	0.100	mg/kg				70-130	11.5	20
o-Xylene	2.05	0.0500	mg/kg	2.00		103	70-130	12.6	20
Total Xylenes	6.33	0.150	mg/kg	6.00		105	70-130	11.9	20
1,1,2,2-Tetrachloroethane	1.85	0.0500	mg/kg	2.00		92.4	70-130	4.94	20
Naphthalene	1.96	0.0500	mg/kg	2.00		97.8	70-130	7.18	20
Surrogate: Dibromofluoromethane	0.456		mg/kg	0.500		91.3	70-130		
Surrogate: Toluene-d8	0.535		mg/kg	0.500		107	70-130		
Surrogate: 4-Bromofluorobenzene	0.509		mg/kg	0.500		102	70-130		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

Semivolatile Organic Compounds by GCMS - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4080102 - SW846-3510
Blank (4080102-BLK1)

Prepared: 01-Aug-14 Analyzed: 05-Aug-14

Naphthalene	ND	0.040	mg/kg							
2-Methylnaphthalene	ND	0.040	mg/kg							
1-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Phenanthrene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Carbazole	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Benzo[b]fluoranthene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Surrogate: Nitrobenzene-d5	1.72		mg/kg	2.00		85.9	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	1.78		mg/kg	2.00		89.2	27.2-92.9			
Surrogate: Terphenyl-d4	2.09		mg/kg	2.00		105	21.3-96.1			

LCS (4080102-BS1)

Prepared: 01-Aug-14 Analyzed: 05-Aug-14

Naphthalene	0.419	0.040	mg/kg	0.400		105	5.46-157			
2-Methylnaphthalene	0.459	0.040	mg/kg	0.400		115	16.1-146			
Acenaphthylene	0.421	0.040	mg/kg	0.400		105	21.6-144			
Acenaphthene	0.426	0.040	mg/kg	0.400		107	27-143			
Fluorene	0.438	0.040	mg/kg	0.400		109	30.9-138			
Phenanthrene	0.440	0.040	mg/kg	0.400		110	38.6-149			
Anthracene	0.403	0.040	mg/kg	0.400		101	36.1-149			
Carbazole	0.439	0.040	mg/kg	0.400		110	29.8-144			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:56

Semivolatile Organic Compounds by GCMS - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4080102 - SW846-3510
LCS (4080102-BS1)

Prepared: 01-Aug-14 Analyzed: 05-Aug-14

Fluoranthene	0.425	0.040	mg/kg	0.400		106	34.6-148			
Pyrene	0.436	0.040	mg/kg	0.400		109	24.8-154			
Benzo[a]anthracene	0.438	0.040	mg/kg	0.400		110	0-179			
Chrysene	0.422	0.040	mg/kg	0.400		106	35.1-150			
Benzo[b]fluoranthene	0.393	0.040	mg/kg	0.400		98.2	17.6-158			
Benzo[k]fluoranthene	0.470	0.040	mg/kg	0.400		117	10.6-169			
Benzo[a]pyrene	0.436	0.040	mg/kg	0.400		109	2.25-166			
Indeno[1,2,3-cd]pyrene	0.397	0.040	mg/kg	0.400		99.3	0-181			
Dibenz[a,h]anthracene	0.427	0.040	mg/kg	0.400		107	2.49-177			
Benzo[g,h,i]perylene	0.467	0.040	mg/kg	0.400		117	0-173			
Surrogate: Nitrobenzene-d5	1.84		mg/kg	2.00		91.8	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	1.80		mg/kg	2.00		89.9	27.2-92.9			
Surrogate: Terphenyl-d4	2.09		mg/kg	2.00		104	21.3-96.1			

LCS Dup (4080102-BSD1)

Prepared: 01-Aug-14 Analyzed: 05-Aug-14

Naphthalene	0.412	0.040	mg/kg	0.400		103	5.46-157	1.63	6.7	
2-Methylnaphthalene	0.448	0.040	mg/kg	0.400		112	16.1-146	2.36	8.99	
Acenaphthylene	0.410	0.040	mg/kg	0.400		103	21.6-144	2.61	14.6	
Acenaphthene	0.421	0.040	mg/kg	0.400		105	27-143	1.34	6.99	
Fluorene	0.427	0.040	mg/kg	0.400		107	30.9-138	2.46	13.9	
Phenanthrene	0.414	0.040	mg/kg	0.400		103	38.6-149	6.14	14.6	
Anthracene	0.421	0.040	mg/kg	0.400		105	36.1-149	4.39	18.5	
Carbazole	0.436	0.040	mg/kg	0.400		109	29.8-144	0.743	23.4	
Fluoranthene	0.421	0.040	mg/kg	0.400		105	34.6-148	0.931	19.7	
Pyrene	0.434	0.040	mg/kg	0.400		108	24.8-154	0.488	23	
Benzo[a]anthracene	0.441	0.040	mg/kg	0.400		110	0-179	0.564	32.5	
Chrysene	0.427	0.040	mg/kg	0.400		107	35.1-150	1.17	19.4	
Benzo[b]fluoranthene	0.430	0.040	mg/kg	0.400		107	17.6-158	9.04	31.4	
Benzo[k]fluoranthene	0.412	0.040	mg/kg	0.400		103	10.6-169	13.2	44.6	
Benzo[a]pyrene	0.432	0.040	mg/kg	0.400		108	2.25-166	0.895	60.5	
Indeno[1,2,3-cd]pyrene	0.403	0.040	mg/kg	0.400		101	0-181	1.41	77	
Dibenz[a,h]anthracene	0.430	0.040	mg/kg	0.400		108	2.49-177	0.849	63.3	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:Reported:
31-Aug-14 11:56**Semivolatile Organic Compounds by GCMS - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4080102 - SW846-3510**LCS Dup (4080102-BSD1)**


Prepared: 01-Aug-14 Analyzed: 05-Aug-14

Benzo[g,h,i]perylene	0.469	0.040	mg/kg	0.400		117	0-173	0.288	77.4
Surrogate: Nitrobenzene-d5	1.75		mg/kg	2.00		87.7	16.1-91.8		
Surrogate: 2-Fluorobiphenyl	1.79		mg/kg	2.00		89.6	27.2-92.9		
Surrogate: Terphenyl-d14	2.09		mg/kg	2.00		105	21.3-96.1		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:56

General Chemistry - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B408129 - General Prep - Wet Chem
Blank (B408129-BLK1)

Prepared & Analyzed: 14-Aug-14

Cyanide, Total ND 0.0100 mg/kg wet

LCS (B408129-BS1)

Prepared & Analyzed: 14-Aug-14

Cyanide, Total 0.0444 0.0100 mg/kg wet 0.0500 88.8 80-120

LCS Dup (B408129-BSD1)

Prepared & Analyzed: 14-Aug-14

Cyanide, Total 0.0482 0.0100 mg/kg wet 0.0500 96.4 80-120 8.21 20

Batch B408150 - General Prep - Wet Chem
Blank (B408150-BLK1)

Prepared & Analyzed: 18-Aug-14

Cyanide, Total ND 0.0100 mg/kg wet

LCS (B408150-BS1)

Prepared & Analyzed: 18-Aug-14

Cyanide, Total 0.0416 0.0100 mg/kg wet 0.0500 83.2 80-120

LCS Dup (B408150-BSD1)

Prepared & Analyzed: 18-Aug-14

Cyanide, Total 0.0460 0.0100 mg/kg wet 0.0500 92.0 80-120 10.0 20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:56

Soluble (DI Water Extraction) - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B408065 - General Prep - Wet Chem
Blank (B408065-BLK1)

Prepared & Analyzed: 08-Aug-14

Nitrite as N ND 0.200 mg/kg wet

LCS (B408065-BS1)

Prepared & Analyzed: 08-Aug-14

Nitrite as N 0.101 0.020 mg/kg wet 0.100 101 80-120

LCS Dup (B408065-BSD1)

Prepared & Analyzed: 08-Aug-14

Nitrite as N 0.100 0.020 mg/kg wet 0.100 100 80-120 0.995 20

Batch B408161 - General Prep - Wet Chem
Blank (B408161-BLK1)

Prepared & Analyzed: 19-Aug-14

Nitrate/Nitrite as N ND 0.020 mg/kg wet

LCS (B408161-BS1)

Prepared & Analyzed: 19-Aug-14

Nitrate/Nitrite as N 1.08 0.020 mg/kg wet 1.00 108 80-120

LCS Dup (B408161-BSD1)

Prepared & Analyzed: 19-Aug-14

Nitrate/Nitrite as N 1.08 0.020 mg/kg wet 1.00 108 80-120 0.00 20

Batch B408235 - General Prep - Wet Chem
Blank (B408235-BLK1)

Prepared & Analyzed: 26-Aug-14

Fluoride ND 0.200 mg/kg wet

LCS (B408235-BS1)


Prepared & Analyzed: 26-Aug-14

Fluoride 1.06 0.200 mg/kg wet 1.00 106 85-115

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:Reported:
31-Aug-14 11:56**Soluble (DI Water Extraction) - Quality Control****Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B408235 - General Prep - Wet Chem**LCS Dup (B408235-BSD1)**

Prepared & Analyzed: 26-Aug-14

Fluoride	1.06	0.200	mg/kg wet	1.00		106	85-115	0.189	20	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:56

Total Metals by ICP - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch B408112 - EPA 3050									
Blank (B408112-BLK1)									
Prepared: 13-Aug-14 Analyzed: 20-Aug-14									
Zinc	ND	0.050	mg/kg dry						
Iron	ND	0.050	mg/kg dry						
Barium	ND	0.010	mg/kg dry						
LCS (B408112-BS1)									
Prepared: 13-Aug-14 Analyzed: 20-Aug-14									
Zinc	1.82	0.050	mg/kg dry	2.00		90.9	85-115		
Iron	3.70	0.050	mg/kg dry	4.00		92.5	85-115		
Barium	1.81	0.010	mg/kg dry	2.00		90.6	85-115		
LCS Dup (B408112-BSD1)									
Prepared: 13-Aug-14 Analyzed: 20-Aug-14									
Zinc	1.76	0.050	mg/kg dry	2.00		88.1	85-115	3.13	20
Iron	3.61	0.050	mg/kg dry	4.00		90.3	85-115	2.36	20
Barium	1.76	0.010	mg/kg dry	2.00		88.2	85-115	2.73	20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:56

Total Metals by ICPMS - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B408169 - EPA 3050M
Blank (B408169-BLK1)

Prepared & Analyzed: 21-Aug-14

Copper	0.0004	0.0001	mg/kg dry							B1
Manganese	0.0016	0.0005	mg/kg dry							B1
Lead	0.0008	0.0005	mg/kg dry							B1
Silver	ND	0.0001	mg/kg dry							
Cadmium	ND	0.0001	mg/kg dry							
Selenium	ND	0.0010	mg/kg dry							
Chromium	ND	0.0010	mg/kg dry							
Arsenic	ND	0.0005	mg/kg dry							
Uranium	ND	0.0001	mg/kg dry							

LCS (B408169-BS1)

Prepared & Analyzed: 21-Aug-14

Arsenic	0.552	0.0005	mg/kg dry	0.500		110	85-115			
Silver	0.473	0.0001	mg/kg dry	0.500		94.7	85-115			
Selenium	2.80	0.0010	mg/kg dry	2.50		112	85-115			
Cadmium	0.533	0.0001	mg/kg dry	0.500		107	85-115			
Uranium	0.550	0.0001	mg/kg dry	0.500		110	85-115			
Chromium	0.481	0.0010	mg/kg dry	0.500		96.2	85-115			
Copper	0.491	0.0001	mg/kg dry	0.500		98.1	85-115			
Lead	0.519	0.0005	mg/kg dry	0.500		104	85-115			
Manganese	0.534	0.0005	mg/kg dry	0.500		107	85-115			

LCS Dup (B408169-BSD1)

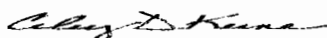
Prepared & Analyzed: 21-Aug-14

Arsenic	0.513	0.0005	mg/kg dry	0.500		103	85-115	7.30	20	
Manganese	0.530	0.0005	mg/kg dry	0.500		106	85-115	0.879	20	
Selenium	2.64	0.0010	mg/kg dry	2.50		106	85-115	5.96	20	
Uranium	0.560	0.0001	mg/kg dry	0.500		112	85-115	1.82	20	
Cadmium	0.516	0.0001	mg/kg dry	0.500		103	85-115	3.21	20	
Chromium	0.484	0.0010	mg/kg dry	0.500		96.8	85-115	0.608	20	
Copper	0.494	0.0001	mg/kg dry	0.500		98.7	85-115	0.578	20	
Lead	0.509	0.0005	mg/kg dry	0.500		102	85-115	1.88	20	
Silver	0.453	0.0001	mg/kg dry	0.500		90.6	85-115	4.43	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:56

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
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Batch B408163 - EPA 7471
Blank (B408163-BLK1)

Prepared & Analyzed: 20-Aug-14

Mercury ND 0.0002 mg/kg wet

LCS (B408163-BS1)

Prepared & Analyzed: 20-Aug-14

Mercury 0.0019 0.0002 mg/kg wet 0.00200 93.6 85-115

LCS Dup (B408163-BSD1)

Prepared & Analyzed: 20-Aug-14

Mercury 0.0019 0.0002 mg/kg wet 0.00200 96.1 85-115 2.69 20

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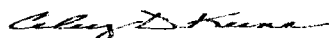
Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

Z-01e	2.2 ± 0.9
Z-01d	1.5 ± 0.9
Z-01c	1.0 ± 0.7
Z-01b	0.7 ± 0.1
Z-01a	0.6 ± 0.1
Z-01	0.5 ± 0.1
SUB-SS	Analysis subcontracted to SunStar Laboratories, Inc.
SUB-RS	Analysis subcontracted to Radiation Safety Engineering, Inc.
SUB-AL	Analysis subcontracted to Anatek Labs, Inc.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
H2	Sample analysis performed past hold time specified by the method.
BS2	Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
B1	Target analyte detected in method blank at or above method reporting limit. Sample concentration found to be 10 times above the concentration found in the method blank or less than the reporting limit.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Stan Don LF</u>		P.O. #:	
Project Manager: <u>G. Johnson</u>		Company:	
Address: <u>Post 1532</u>		Attn: <u>Sam</u>	
City: <u>Lowmolen</u>		State: <u>NM</u> Zip: <u>88240</u>	
Phone #: <u>131. 348 2</u>		Fax #:	
Project #: <u>Stan Don LF</u>		Project Owner: <u>D. Johnson</u>	
Project Name: <u>Stan Don</u>		City: <u>Lowmolen</u>	
Project Location: <u>Unit E 32-15-35</u>		State: <u>NM</u> Zip: <u>88240</u>	
Sample Name: <u>G. Johnson</u>		Phone #: <u>131. 348 2</u>	
Fax #:		Fax #:	
FOR LAB USE ONLY		MATRIX	
Lab I.D.		Sample I.D.	
4402382		1 CDR 1-1A	
		2 CDR 1-1B	
		3 CDR 1-1C	
		4 CDR 1-1D	
		5 CDR 2-1A	
		6 CDR 2-1B	
		7 CDR 2-1C	
		8 CDR 2-1D	
		9 CDR 2-1E	
		10 CDR 2-1F	
		11 CDR 2-1G	
		12 CDR 2-1H	
		13 CDR 2-1I	
		14 CDR 2-1J	
		15 CDR 2-1K	
		16 CDR 2-1L	
		17 CDR 2-1M	
		18 CDR 2-1N	
		19 CDR 2-1O	
		20 CDR 2-1P	
		21 CDR 2-1Q	
		22 CDR 2-1R	
		23 CDR 2-1S	
		24 CDR 2-1T	
		25 CDR 2-1U	
		26 CDR 2-1V	
		27 CDR 2-1W	
		28 CDR 2-1X	
		29 CDR 2-1Y	
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		42 CDR 2-1AL	
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		44 CDR 2-1AN	
		45 CDR 2-1AO	
		46 CDR 2-1AP	
		47 CDR 2-1AQ	
		48 CDR 2-1AR	
		49 CDR 2-1AS	
		50 CDR 2-1AT	
		51 CDR 2-1AU	
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		55 CDR 2-1AY	
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		61 CDR 2-1BE	
		62 CDR 2-1BF	
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		64 CDR 2-1BH	
		65 CDR 2-1BI	
		66 CDR 2-1BJ	
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		71 CDR 2-1BO	
		72 CDR 2-1BP	
		73 CDR 2-1BQ	
		74 CDR 2-1BR	
		75 CDR 2-1BS	
		76 CDR 2-1BT	
		77 CDR 2-1BU	
		78 CDR 2-1BV	
		79 CDR 2-1BW	
		80 CDR 2-1BX	
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		85 CDR 2-1CC	
		86 CDR 2-1CD	
		87 CDR 2-1CE	
		88 CDR 2-1CF	
		89 CDR 2-1CG	
		90 CDR 2-1CH	
		91 CDR 2-1CI	
		92 CDR 2-1CJ	
		93 CDR 2-1CK	
		94 CDR 2-1CL	
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		96 CDR 2-1CN	
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		98 CDR 2-1CP	
		99 CDR 2-1CQ	
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		101 CDR 2-1CS	
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		103 CDR 2-1CU	
		104 CDR 2-1CV	
		105 CDR 2-1CW	
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		125 CDR 2-1DQ	
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		129 CDR 2-1DU	
		130 CDR 2-1DV	
		131 CDR 2-1DW	
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		133 CDR 2-1DY	
		134 CDR 2-1DZ	
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		139 CDR 2-1EE	
		140 CDR 2-1EF	
		141 CDR 2-1EG	
		142 CDR 2-1EH	
		143 CDR 2-1EI	
		144 CDR 2-1EJ	
		145 CDR 2-1EK	
		146 CDR 2-1EL	
		147 CDR 2-1EM	
		148 CDR 2-1EN	
		149 CDR 2-1EO	
		150 CDR 2-1EP	
		151 CDR 2-1EQ	
		152 CDR 2-1ER	
		153 CDR 2-1ES	
		154 CDR 2-1ET	
		155 CDR 2-1EU	
		156 CDR 2-1EV	
		157 CDR 2-1EW	
		158 CDR 2-1EX	
		159 CDR 2-1EY	
		160 CDR 2-1EZ	
		161 CDR 2-1FA	
		162 CDR 2-1FB	
		163 CDR 2-1FC	
		164 CDR 2-1FD	
		165 CDR 2-1FE	
		166 CDR 2-1FF	
		167 CDR 2-1FG	
		168 CDR 2-1FH	
		169 CDR 2-1FI	
		170 CDR 2-1FJ	
		171 CDR 2-1FK	
		172 CDR 2-1FL	
		173 CDR 2-1FM	
		174 CDR 2-1FN	
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		176 CDR 2-1FP	
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		178 CDR 2-1FR	
		179 CDR 2-1FS	
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		247 CDR 2-1II	
		248 CDR 2-1IJ	
		249 CDR 2-1IK	
		250 CDR 2-1IL	
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		299 CDR 2-1KI	
		300 CDR 2-1KJ	
		301 CDR 2-1KK	
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		319 CDR 2-1LC	
		320 CDR 2-1LD	
		321 CDR 2-1LE	
		322 CDR 2-1LF	
		323 CDR 2-1LG	
		324 CDR 2-1LH	
		325 CDR 2-1LI	
		326 CDR 2-1LJ	
		327 CDR 2-1LK	
		328 CDR 2-1LL	
		329 CDR 2-1LM	
		330 CDR 2-1LN	
		331 CDR 2-1LO	
		332 CDR 2-1LP	
		333 CDR 2-1LQ	
		334 CDR 2-1LR	
		335 CDR 2-1LS	
		336 CDR 2-1LT	
		337 CDR 2-1LU	
		338 CDR 2-1LV	
		339 CDR 2-1LW	
		340 CDR 2-1LX	
		341 CDR 2-1LY	
		342 CDR 2-1LZ	
		343 CDR 2-1MA	
		344 CDR 2-1MB	
		345 CDR 2-1MC	
		346 CDR 2-1MD	
		347 CDR 2-1ME	
		348 CDR 2-1MF	
		349 CDR 2-1MG	
		350 CDR 2-1MH	
		351 CDR 2-1MI	
		352 CDR 2-1MJ	
		353 CDR 2-1MK	
		354 CDR 2-1ML	
		355 CDR 2-1MM	
		356 CDR 2-1MN	
		357 CDR 2-1MO	
		358 CDR 2-1MP	
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		362 CDR 2-1MT	
		363 CDR 2-1MU	
		364 CDR 2-1MV	
		365 CDR 2-1MW	
		366 CDR 2-1MX	
		367 CDR 2-1MY	
		368 CDR 2-1MZ	
		369 CDR 2-1NA	
		370 CDR 2-1NB	
		371 CDR 2-1NC	
		372 CDR 2-1ND	
		373 CDR 2-1NE	
		374 CDR 2-1NF	
		375 CDR 2-1NG	
		376 CDR 2-1NH	
		377 CDR 2-1NI	
		378 CDR 2-1NJ	
		379 CDR 2-1NK	
		380 CDR 2-1NL	
		381 CDR 2-1NM	
		382 CDR 2-1NN	
		383 CDR 2-1NO	
		384 CDR 2-1NP	
		385 CDR 2-1NQ	
		386 CDR 2-1NR	
		387 CDR 2-1NS	
		388 CDR 2-1NT	
		389 CDR 2-1NU	
		390 CDR 2-1NV	
		391 CDR 2-1NW	
		392 CDR 2-1NX	
		393 CDR 2-1NY	
		394 CDR 2-1NZ	
		395 CDR 2-1OA	
		396 CDR 2-1OB	
		397 CDR 2-1OC	
		398 CDR 2-1OD	
		399 CDR 2-1OE	
		400 CDR 2-1OF	
		401 CDR 2-1OG	
		402 CDR 2-1OH	
		403 CDR 2-1OI	
		404 CDR 2-1OJ	
		405 CDR 2-1OK	
		406 CDR 2-1OL	
		407 CDR 2-	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>San Juan LE</u>		P.O. #:	
Project Manager: <u>G. Watson</u>		Company:	
Address: <u>Box 1632</u>		Attn: <u>[Signature]</u>	
City: <u>Las Alamos</u> State: <u>NM</u> Zip: <u>87240</u>		Address:	
Phone #: <u>505-338-3822</u> Fax #: _____		City:	
Project #: <u>San Juan LE</u> Project Owner: <u>D. Watson</u>		State: Zip:	
Project Name: <u>San Juan LE (NM-01-048)</u>		Phone #:	
Project Location: <u>Unit E 32-15-35</u>		Fax #:	
Sample Name: <u>G. Watson</u>		PRESERV/ SAMPLING	
FOR LAB USE ONLY		MATRIX	
Lab I.D.	Sample I.D.	GROUNDWATER	
402388	Cell 1 - A	WASTEWATER	
	Cell 1 - B	SOIL	
	Cell 1 - C	OIL	
	Cell 1 - D	SLUDGE	
		OTHER:	
		ACID/BASE:	
		ICE / COOL	
		OTHER:	
		DATE	
		TIME	
		EDC	
		DEE	
		PCE	
		TCE	
		Methylene Chloride	
		Chloroform	
		EDB	
		Trichloroethane	
		Tetrachloroethane	
		Vinyl Chloride	
		Polycyclic Aromatic Hydro.	

PLEASE NOTE: Liability and Ownership. Cardinal's liability and ownership is limited to the analysis of the sample and by the client for the analysis. All data including those for analysis and any other data submitted shall be deemed to be the property of the client. In no event shall Cardinal be liable for incidental or consequential damages, including lost profits, business interruption, loss of data, or loss of profits, incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal. Signature of client and date of the client's acknowledgment of the terms of this agreement shall be provided to Cardinal at the time of sample submission.

Relinquished By: [Signature] Date: 8-14 Received By: [Signature] Date: 8-30

Relinquished By: [Signature] Date: 8-30 Received By: [Signature] Date: 8-30

Delivered By: (Circle One) UPS Sample Condition: Good Checked By: [Signature]

Sampler - UPS - Bus - Other: 442 #54 Cool: Yes No: No (Initials) RP

REMARKS: A+B 20.6.2313
6010 B ~ 6020



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

W
L
W

August 31, 2014

GREG WATSON

JAY DAN LANDFARM

PO BOX 632

LOVINGTON, NM 88260

RE: JAY DAN LF (NM1-0045)

Enclosed are the results of analyses for samples received by the laboratory on 08/05/14 9:30.

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

Cardinal Laboratories is accredited 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)

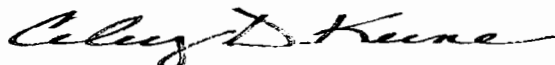
Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

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)

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

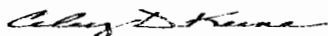
Analytical Results For:JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:Reported:
31-Aug-14 12:16

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL 3 - A	H402389-01	Soil	04-Aug-14 15:15	05-Aug-14 09:30
CELL 3 - B	H402389-02	Soil	04-Aug-14 15:50	05-Aug-14 09:30
CELL 3 - C	H402389-03	Soil	04-Aug-14 16:35	05-Aug-14 09:30
CELL 3 - D	H402389-04	Soil	04-Aug-14 17:10	05-Aug-14 09:30

Cardinal Laboratories

*=**Accredited Analyte**

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 12:16

CELL 3 - A
H402389-01 (Soil)

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

Chloride	ND		16.0	mg/kg	4	4080710	AP	11-Aug-14	4500-Cl-B	
pH*	7.87		0.100	pH Units	1	4081204	AP	12-Aug-14	9045	
Phenols	ND		2.7	mg/kg dry wt.	1	4083105	CK	19-Aug-14	EPA9065	SUB-AL
Sulfate	ND		40.0	mg/kg	4	4081306	AP	13-Aug-14	375.4	

Organic Compounds

TPH 418.1	ND		100	mg/kg	10	4080611	CK	18-Aug-14	418.1	
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Radionuclides

Radium-226	0.5 ± 0.1			pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Radium-228	ND		1.0	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Total Radium	0.5 ± 0.1			pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	

PCBs BY GC/ECD
SUB-SS

PCB 1016	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1221	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1232	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1242	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1248	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1254	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1260	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	

Surrogate: Tetrachloro-meta-xylene	83.5 %		35-140			4083104	CK	09-Aug-14	8082	
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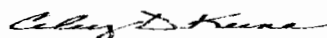
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Methylene chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	

Cardinal Laboratories

*==Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 12:16

CELL 3 - A
H402389-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Chloroform*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Carbon tetrachloride*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Benzene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Trichloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Toluene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Tetrachloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Ethylbenzene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
m-p Xylenes*	ND	0.100	mg/kg	50	4080701	MS	07-Aug-14	8260
o-Xylene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Total Xylenes*	ND	0.150	mg/kg	50	4080701	MS	07-Aug-14	8260
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Naphthalene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Surrogate: Dibromofluoromethane		88.7 %	70-130		4080701	MS	07-Aug-14	8260
Surrogate: Toluene-d8		110 %	70-130		4080701	MS	07-Aug-14	8260
Surrogate: 4-Bromofluorobenzene		95.8 %	70-130		4080701	MS	07-Aug-14	8260

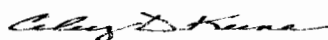
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
2-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
1-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Acenaphthylene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Acenaphthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Fluorene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Phenanthrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 12:16

CELL 3 - A
H402389-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Carbazole	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Fluoranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Pyrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Chrysene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Surrogate: Nitrobenzene-d5			98.5 %	16.1-91.8		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: 2-Fluorobiphenyl			122 %	27.2-92.9		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: Terphenyl-d14			152 %	21.3-96.1		4080102	CK	19-Aug-14	8270C	S-04

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND		1.00	mg/kg dry	100	B408119	KLJ	13-Aug-14	EPA9012 B	
% Dry Solids	96.9			%	1	B408097	LLG	13-Aug-14	EPA160.3	H2

Soluble (DI Water Extraction)

Fluoride	2.68		0.800	mg/kg dry	4	B408235	ABP	26-Aug-14	4500-F- C	
Nitrate/Nitrite as N	21.9		0.400	mg/kg dry	20	B408161	KLJ	19-Aug-14	EPA353.2	
Nitrite as N	ND		0.200	mg/kg dry	10	B408065	KLJ	08-Aug-14	EPA353.2	

Total Metals by ICP

Barium	89.2		1.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Iron	9410		5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 12:16

CELL 3 - A
H402389-01 (Soil)

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

Zinc	34.2		5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
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Total Metals by ICPMS

Arsenic	2.81		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Cadmium	0.534		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Chromium	9.57		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Copper	6.89		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Lead	8.82		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Manganese	190		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Uranium	0.339		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	

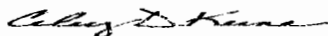
Total Mercury by CVAA

Mercury	ND		0.102	mg/kg dry	495	B408163	JGS	20-Aug-14	EPA7471	
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Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 12:16

CELL 3 - B
H402389-02 (Soil)

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

Chloride	ND		16.0	mg/kg	4	4080710	AP	11-Aug-14	4500-Cl-B	
pH*	7.95		0.100	pH Units	1	4081204	AP	12-Aug-14	9045	
Phenols	ND		2.8	mg/kg dry wt.	1	4083105	CK	19-Aug-14	EPA9065	SUB-AL
Sulfate	ND		40.0	mg/kg	4	4081306	AP	13-Aug-14	375.4	

Organic Compounds

TPH 418.1	ND		100	mg/kg	10	4080611	CK	18-Aug-14	418.1	
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Radionuclides

Radium-226	ND		0.30	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Radium-228	ND		1.1	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Total Radium	ND		1.1	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	

PCBs BY GC/ECD
SUB-SS

PCB 1016	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1221	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1232	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1242	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1248	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1254	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1260	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	

Surrogate: Tetrachloro-meta-xylene 86.3 % 35-140 4083104 CK 09-Aug-14 8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Methylene chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Chloroform*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 12:16

CELL 3 - B
H402389-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Carbon tetrachloride*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Benzene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Trichloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Toluene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Tetrachloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Ethylbenzene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
m-p Xylenes*	ND	0.100	mg/kg	50	4080701	MS	07-Aug-14	8260
o-Xylene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Total Xylenes*	ND	0.150	mg/kg	50	4080701	MS	07-Aug-14	8260
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Naphthalene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Surrogate: Dibromofluoromethane		88.1 %	70-130		4080701	MS	07-Aug-14	8260
Surrogate: Toluene-d8		109 %	70-130		4080701	MS	07-Aug-14	8260
Surrogate: 4-Bromofluorobenzene		94.6 %	70-130		4080701	MS	07-Aug-14	8260

Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
2-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
1-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Acenaphthylene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Acenaphthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Fluorene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Phenanthrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Carbazole	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 12:16

CELL 3 - B H402389-02 (Soil)

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

Semivolatile Organic Compounds by GCMS

Fluoranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Pyrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Chrysene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Surrogate: Nitrobenzene-d5			140 %	16.1-91.8		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: 2-Fluorobiphenyl			172 %	27.2-92.9		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: Terphenyl-d14			222 %	21.3-96.1		4080102	CK	19-Aug-14	8270C	S-04

Green Analytical Laboratories

General Chemistry

Cyanide, Total	ND		1.00	mg/kg dry	100	B408119	KLJ	13-Aug-14	EPA9012 B	
% Dry Solids	95.9			%	1	B408097	LLG	13-Aug-14	EPA160.3	H2

Soluble (DI Water Extraction)

Fluoride	2.91		0.800	mg/kg dry	4	B408235	ABP	26-Aug-14	4500-F- C	
Nitrate/Nitrite as N	14.3		0.400	mg/kg dry	20	B408161	KLJ	19-Aug-14	EPA353.2	
Nitrite as N	ND		0.200	mg/kg dry	10	B408065	KLJ	08-Aug-14	EPA353.2	

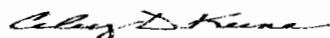
Total Metals by ICP

Barium	95.5		1.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Iron	10300		5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Zinc	35.4		5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 12:16

CELL 3 - B
H402389-02 (Soil)

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

Arsenic	2.89		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Cadmium	0.551		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Chromium	10.4		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Copper	7.12		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Lead	8.94		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Manganese	189		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Uranium	0.331		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	

Total Mercury by CVAA

Mercury	ND		0.103	mg/kg dry	495	B408163	JGS	20-Aug-14	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 12:16

CELL 3 - C H402389-03 (Soil)

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

Inorganic Compounds

Chloride	ND		16.0	mg/kg	4	4080710	AP	11-Aug-14	4500-Cl-B	
pH*	8.07		0.100	pH Units	1	4081204	AP	12-Aug-14	9045	
Phenols	ND		2.7	mg/kg dry wt.	1	4083105	CK	19-Aug-14	EPA9065	SUB-AL
Sulfate	72.1		40.0	mg/kg	4	4081306	AP	13-Aug-14	375.4	

Organic Compounds

TPH 418.1	ND		100	mg/kg	10	4080611	CK	18-Aug-14	418.1	
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Radionuclides

Radium-226	ND		0.70	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Radium-228	ND		0.90	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Total Radium	ND		0.90	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	

PCBs BY GC/ECD

PCB 1016	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	SUB-SS
PCB 1221	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1232	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1242	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1248	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1254	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1260	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	

Surrogate: Tetrachloro-meta-xylene 59.2 % 35-140 4083104 CK 09-Aug-14 8082

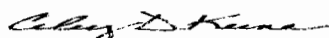
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Methylene chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Chloroform*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 12:16

CELL 3 - C
H402389-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Carbon tetrachloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,1-Trichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Benzene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Trichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Toluene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Tetrachloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2-Trichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dibromoethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Ethylbenzene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
m-p Xylenes*	ND		0.100	mg/kg	50	4080701	MS	07-Aug-14	8260	
o-Xylene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Total Xylenes*	ND		0.150	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2,2-Tetrachloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Naphthalene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Surrogate: Dibromofluoromethane			88.2 %	70-130		4080701	MS	07-Aug-14	8260	
Surrogate: Toluene-d8			109 %	70-130		4080701	MS	07-Aug-14	8260	
Surrogate: 4-Bromofluorobenzene			93.1 %	70-130		4080701	MS	07-Aug-14	8260	

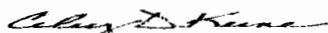
Semivolatile Organic Compounds by GCMS

Naphthalene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
1-Methylnaphthalene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Acenaphthylene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Acenaphthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Fluorene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Phenanthrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Anthracene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Carbazole	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 12:16

CELL 3 - C
H402389-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Fluoranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Pyrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Chrysene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Surrogate: Nitrobenzene-d5			99.0 %	16.1-91.8		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: 2-Fluorobiphenyl			122 %	27.2-92.9		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: Terphenyl-d14			148 %	21.3-96.1		4080102	CK	19-Aug-14	8270C	S-04

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND		1.00	mg/kg dry	100	B408129	KLJ	14-Aug-14	EPA9012 B	
% Dry Solids	97.9			%	1	B408097	LLG	13-Aug-14	EPA160.3	H2

Soluble (DI Water Extraction)

Fluoride	4.23		0.800	mg/kg dry	4	B408235	ABP	26-Aug-14	4500-F- C	
Nitrate/Nitrite as N	8.44		0.400	mg/kg dry	20	B408161	KLJ	19-Aug-14	EPA353.2	
Nitrite as N	ND		0.200	mg/kg dry	10	B408065	KLJ	08-Aug-14	EPA353.2	

Total Metals by JCP

Barium	58.5		1.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Iron	7690		5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Zinc	23.7		5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 12:16

CELL 3 - C
H402389-03 (Soil)

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

Arsenic	2.05		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Cadmium	0.291		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Chromium	7.32		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Copper	4.81		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Lead	6.06		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Manganese	130		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Uranium	0.213		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	

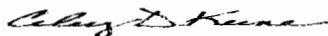
Total Mercury by CVAA

Mercury	ND		0.101	mg/kg dry	495	B408163	JGS	20-Aug-14	EPA7471	
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Cardinal Laboratories

* = Accredited Analyte

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Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 12:16

CELL 3 - D
H402389-04 (Soil)

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

Inorganic Compounds

Chloride	ND		16.0	mg/kg	4	4080710	AP	11-Aug-14	4500-CL-B	
pH*	7.98		0.100	pH Units	1	4081204	AP	12-Aug-14	9045	
Phenols	ND		2.6	mg/kg dry wt.	1	4083105	CK	19-Aug-14	EPA9065	SUB-AL
Sulfate	ND		40.0	mg/kg	4	4081306	AP	13-Aug-14	375.4	

Organic Compounds

TPH 418.1	ND		100	mg/kg	10	4080611	CK	18-Aug-14	418.1	
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Radionuclides

Radium-226	1.0 ± 0.3			pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Radium-228	ND		0.90	pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	
Total Radium	1.0 ± 0.3			pCi/gram	1	4083103	CK	28-Aug-14	GammaRay HPGE	

PCBs BY GC/ECD

SUB-SS

PCB 1016	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1221	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1232	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1242	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1248	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1254	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
PCB 1260	ND		10.0	ug/kg	1	4083104	CK	09-Aug-14	8082	
Surrogate: Tetrachloro-meta-xylene			79.1 %	35-140		4083104	CK	09-Aug-14	8082	


Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Methylene chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Chloroform*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	

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CELL 3 - D
H402389-04 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Carbon tetrachloride*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Benzene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Trichloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Toluene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Tetrachloroethene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Ethylbenzene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
m-p Xylenes*	ND	0.100	mg/kg	50	4080701	MS	07-Aug-14	8260
o-Xylene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Total Xylenes*	ND	0.150	mg/kg	50	4080701	MS	07-Aug-14	8260
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260
Naphthalene*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260

Surrogate: Dibromofluoromethane	88.6 %	70-130	4080701	MS	07-Aug-14	8260
Surrogate: Toluene-d8	109 %	70-130	4080701	MS	07-Aug-14	8260
Surrogate: 4-Bromofluorobenzene	94.3 %	70-130	4080701	MS	07-Aug-14	8260


Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
2-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
1-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Acenaphthylene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Acenaphthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Fluorene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Phenanthrene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Anthracene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C
Carbazole	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C

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Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 12:16

CELL 3 - D H402389-04 (Soil)

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

Semivolatile Organic Compounds by GCMS

Fluoranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Pyrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Chrysene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Surrogate: Nitrobenzene-d5			88.4 %	16.1-91.8		4080102	CK	19-Aug-14	8270C	
Surrogate: 2-Fluorobiphenyl			116 %	27.2-92.9		4080102	CK	19-Aug-14	8270C	S-04
Surrogate: Terphenyl-d14			156 %	21.3-96.1		4080102	CK	19-Aug-14	8270C	S-04

Green Analytical Laboratories

General Chemistry

Cyanide, Total	ND		1.00	mg/kg dry	100	B408129	KLJ	14-Aug-14	EPA9012 B	
% Dry Solids	75.1			%	1	B408097	LLG	13-Aug-14	EPA160.3	H2

Soluble (DI Water Extraction)

Fluoride	4.52		0.800	mg/kg dry	4	B408235	ABP	26-Aug-14	4500-F- C	
Nitrate/Nitrite as N	21.1		0.400	mg/kg dry	20	B408161	KLJ	19-Aug-14	EPA353.2	
Nitrite as N	ND		0.200	mg/kg dry	10	B408065	KLJ	08-Aug-14	EPA353.2	

Total Metals by ICP

Barium	63.0		1.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Iron	7470		5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
Zinc	23.9		5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	

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Green Analytical Laboratories
Total Metals by ICPMS

Arsenic	2.48		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Cadmium	0.345		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Chromium	8.73		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Copper	5.30		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Lead	6.92		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Manganese	150		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Silver	0.109		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Uranium	0.306		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	

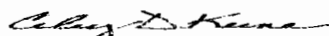
Total Mercury by CVAA

Mercury	ND		0.129	mg/kg dry	485	B408163	JGS	20-Aug-14	EPA7471	
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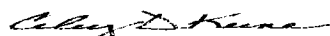
Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080710 - 1:4 DI Water										
Blank (4080710-BLK1)				Prepared & Analyzed: 07-Aug-14						
Chloride	ND	16.0	mg/kg							
LCS (4080710-BS1)				Prepared & Analyzed: 07-Aug-14						
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (4080710-BSD1)				Prepared & Analyzed: 07-Aug-14						
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	
Batch 4081204 - NO PREP										
LCS (4081204-BS1)				Prepared & Analyzed: 12-Aug-14						
pH	7.09		pH Units	7.00		101	90-110			
Duplicate (4081204-DUP1)				Source: H402388-05		Prepared & Analyzed: 12-Aug-14				
pH	8.12	0.100	pH Units		8.08			0.494	20	
Batch 4081306 - General Prep - Wet Chem										
Blank (4081306-BLK1)				Prepared & Analyzed: 13-Aug-14						
Sulfate	ND	10.0	mg/kg							
LCS (4081306-BS1)				Prepared & Analyzed: 13-Aug-14						
Sulfate	16.1	10.0	mg/kg	20.0		80.7	80-120			
LCS Dup (4081306-BSD1)				Prepared & Analyzed: 13-Aug-14						
Sulfate	16.3	10.0	mg/kg	20.0		81.6	80-120	1.11	20	

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Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4083105 - General Prep									
Blank (4083105-BLK1)				Prepared: 15-Aug-14 Analyzed: 19-Aug-14					
Phenols	ND	0.5	mg/kg dry wt.						
LCS (4083105-BS1)				Prepared: 15-Aug-14 Analyzed: 19-Aug-14					
Phenols	0.4		mg/kg	0.400		90.2	70-130		
Matrix Spike (4083105-MS1)				Source: H402388-01 Prepared: 15-Aug-14 Analyzed: 19-Aug-14					
Phenols	19.7		mg/kg	20.3	0.0	97.0	70-130		
Matrix Spike Dup (4083105-MSD1)				Source: H402388-01 Prepared: 15-Aug-14 Analyzed: 19-Aug-14					
Phenols	19.1		mg/kg	20.3	0.0	94.1	70-130	3.09	20

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Organic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD Limit	Notes
Batch 4080611 - Solvent Extraction								
Blank (4080611-BLK1)				Prepared & Analyzed: 18-Aug-14				
TPH 418.1	ND	100	mg/kg					
LCS (4080611-BS1)				Prepared & Analyzed: 18-Aug-14				
TPH 418.1	5340	100	mg/kg	5000	107	80-120		
LCS Dup (4080611-BSD1)				Prepared & Analyzed: 18-Aug-14				
TPH 418.1	5230	100	mg/kg	5000	105	80-120	2.06	20

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PCBs BY GC/ECD - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4083104 - General Prep
Blank (4083104-BLK1)

Prepared: 06-Aug-14 Analyzed: 09-Aug-14

PCB 1016	ND	10.0	ug/kg							
PCB 1221	ND	10.0	ug/kg							
PCB 1232	ND	10.0	ug/kg							
PCB 1242	ND	10.0	ug/kg							
PCB 1248	ND	10.0	ug/kg							
PCB 1254	ND	10.0	ug/kg							
PCB 1260	ND	10.0	ug/kg							

Surrogate: Tetrachloro-meta-xylene 8.02 ug/L 10.0 80.2 35-140

LCS (4083104-BS1)

Prepared: 06-Aug-14 Analyzed: 09-Aug-14

PCB 1016	63.5		ug/L	100		63.5	40-130			
PCB 1260	110		ug/L	100		110	40-130			

Surrogate: Tetrachloro-meta-xylene 9.78 ug/L 10.0 97.8 35-140

Matrix Spike (4083104-MS1)

Source: H402388-01

Prepared: 06-Aug-14 Analyzed: 09-Aug-14

PCB 1016	62.9		ug/L	100	ND	62.9	40-130			
PCB 1260	66.1		ug/L	100	ND	66.1	40-130			

Surrogate: Tetrachloro-meta-xylene 7.55 ug/L 10.0 75.5 35-140

Matrix Spike Dup (4083104-MSD1)

Source: H402388-01

Prepared: 06-Aug-14 Analyzed: 09-Aug-14

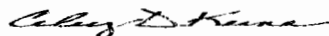
PCB 1016	76.6		ug/L	100	ND	76.6	40-130	19.6	30	
PCB 1260	64.9		ug/L	100	ND	64.9	40-130	1.83	30	

Surrogate: Tetrachloro-meta-xylene 7.96 ug/L 10.0 79.6 35-140

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 12:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4080701 - Volatiles
Blank (4080701-BLK1)

Prepared & Analyzed: 07-Aug-14

Vinyl chloride	ND	0.0500	mg/kg							
1,1-Dichloroethene	ND	0.0500	mg/kg							
Methylene chloride	ND	0.0500	mg/kg							
1,1-Dichloroethane	ND	0.0500	mg/kg							
Chloroform	ND	0.0500	mg/kg							
Carbon tetrachloride	ND	0.0500	mg/kg							
1,1,1-Trichloroethane	ND	0.0500	mg/kg							
Benzene	ND	0.0500	mg/kg							
1,2-Dichloroethane	ND	0.0500	mg/kg							
Trichloroethene	ND	0.0500	mg/kg							
Toluene	ND	0.0500	mg/kg							
Tetrachloroethene	ND	0.0500	mg/kg							
1,1,2-Trichloroethane	ND	0.0500	mg/kg							
1,2-Dibromoethane	ND	0.0500	mg/kg							
Ethylbenzene	ND	0.0500	mg/kg							
m-p Xylenes	ND	0.100	mg/kg							
o-Xylene	ND	0.0500	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg							
Naphthalene	ND	0.0500	mg/kg							
Surrogate: Dibromofluoromethane	0.434		mg/kg	0.500		86.9	70-130			
Surrogate: Toluene-d8	0.556		mg/kg	0.500		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.475		mg/kg	0.500		95.1	70-130			

LCS (4080701-BS1)

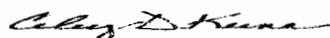
Prepared & Analyzed: 07-Aug-14

Vinyl chloride	1.24	0.0500	mg/kg				70-130			
1,1-Dichloroethene	1.70	0.0500	mg/kg	2.00		85.0	70-130			
Methylene chloride	1.28	0.0500	mg/kg	2.00		64.0	70-130			BS2
1,1-Dichloroethane	1.47	0.0500	mg/kg	2.00		73.5	70-130			
Chloroform	1.42	0.0500	mg/kg	2.00		70.8	70-130			
Carbon tetrachloride	1.68	0.0500	mg/kg	2.00		84.2	70-130			
1,1,1-Trichloroethane	1.55	0.0500	mg/kg	2.00		77.3	70-130			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 12:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4080701 - Volatiles

LCS (4080701-BS1)		Prepared & Analyzed: 07-Aug-14								
Benzene	1.56	0.0500	mg/kg	2.00		77.8	70-130			BS2
1,2-Dichloroethane	1.22	0.0500	mg/kg	2.00		60.9	70-130			
Trichloroethene	1.55	0.0500	mg/kg	2.00		77.6	70-130			
Toluene	1.70	0.0500	mg/kg	2.00		84.9	70-130			
Tetrachloroethene	2.26	0.0500	mg/kg	2.00		113	70-130			
1,1,2-Trichloroethane	1.74	0.0500	mg/kg	2.00		86.8	70-130			
1,2-Dibromoethane	1.81	0.0500	mg/kg	2.00		90.7	70-130			
Ethylbenzene	1.66	0.0500	mg/kg	2.00		82.8	70-130			
m-p Xylenes	3.81	0.100	mg/kg				70-130			
o-Xylene	1.81	0.0500	mg/kg	2.00		90.4	70-130			
Total Xylenes	5.62	0.150	mg/kg	6.00		93.7	70-130			
1,1,2,2-Tetrachloroethane	1.76	0.0500	mg/kg	2.00		87.9	70-130			
Naphthalene	1.82	0.0500	mg/kg	2.00		91.0	70-130			
Surrogate: Dibromofluoromethane	0.454		mg/kg	0.500		90.8	70-130			
Surrogate: Toluene-d8	0.531		mg/kg	0.500		106	70-130			
Surrogate: 4-Bromofluorobenzene	0.496		mg/kg	0.500		99.1	70-130			

LCS Dup (4080701-BSD1)		Prepared & Analyzed: 07-Aug-14								
Vinyl chloride	1.32	0.0500	mg/kg				70-130	5.87	20	BS2
1,1-Dichloroethene	1.87	0.0500	mg/kg	2.00		93.5	70-130	9.55	20	
Methylene chloride	1.41	0.0500	mg/kg	2.00		70.3	70-130	9.34	20	
1,1-Dichloroethane	1.65	0.0500	mg/kg	2.00		82.4	70-130	11.3	20	
Chloroform	1.58	0.0500	mg/kg	2.00		79.1	70-130	11.0	20	
Carbon tetrachloride	1.87	0.0500	mg/kg	2.00		93.3	70-130	10.2	20	
1,1,1-Trichloroethane	1.69	0.0500	mg/kg	2.00		84.4	70-130	8.76	20	
Benzene	1.72	0.0500	mg/kg	2.00		86.1	70-130	10.2	20	
1,2-Dichloroethane	1.36	0.0500	mg/kg	2.00		67.8	70-130	10.7	20	
Trichloroethene	1.74	0.0500	mg/kg	2.00		86.9	70-130	11.3	20	
Toluene	1.88	0.0500	mg/kg	2.00		94.2	70-130	10.4	20	
Tetrachloroethene	2.75	0.0500	mg/kg	2.00		137	70-130	19.4	20	
1,1,2-Trichloroethane	1.95	0.0500	mg/kg	2.00		97.4	70-130	11.5	20	
1,2-Dibromoethane	2.00	0.0500	mg/kg	2.00		99.8	70-130	9.57	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 12:16

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4080701 - Volatiles
LCS Dup (4080701-BSD1)

Prepared & Analyzed: 07-Aug-14

Ethylbenzene	1.84	0.0500	mg/kg	2.00		92.2	70-130	10.7	20	
m-p Xylenes	4.28	0.100	mg/kg				70-130	11.5	20	
o-Xylene	2.05	0.0500	mg/kg	2.00		103	70-130	12.6	20	
Total Xylenes	6.33	0.150	mg/kg	6.00		105	70-130	11.9	20	
1,1,2,2-Tetrachloroethane	1.85	0.0500	mg/kg	2.00		92.4	70-130	4.94	20	
Naphthalene	1.96	0.0500	mg/kg	2.00		97.8	70-130	7.18	20	
Surrogate: Dibromofluoromethane	0.456		mg/kg	0.500		91.3	70-130			
Surrogate: Toluene-d8	0.535		mg/kg	0.500		107	70-130			
Surrogate: 4-Bromofluorobenzene	0.509		mg/kg	0.500		102	70-130			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 12:16

Semivolatile Organic Compounds by GCMS - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4080102 - SWB46-3510
Blank (4080102-BLK1)

Prepared: 01-Aug-14 Analyzed: 05-Aug-14

Naphthalene	ND	0.040	mg/kg							
2-Methylnaphthalene	ND	0.040	mg/kg							
1-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Phenanthrene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Carbazole	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Benzo[b]fluoranthene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Surrogate: Nitrobenzene-d5	1.72		mg/kg	2.00		85.9	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	1.78		mg/kg	2.00		89.2	27.2-92.9			
Surrogate: Terphenyl-d14	2.09		mg/kg	2.00		105	21.3-96.1			

LCS (4080102-BS1)

Prepared: 01-Aug-14 Analyzed: 05-Aug-14

Naphthalene	0.419	0.040	mg/kg	0.400		105	5.46-157			
2-Methylnaphthalene	0.459	0.040	mg/kg	0.400		115	16.1-146			
Acenaphthylene	0.421	0.040	mg/kg	0.400		105	21.6-144			
Acenaphthene	0.426	0.040	mg/kg	0.400		107	27-143			
Fluorene	0.438	0.040	mg/kg	0.400		109	30.9-138			
Phenanthrene	0.440	0.040	mg/kg	0.400		110	38.6-149			
Anthracene	0.403	0.040	mg/kg	0.400		101	36.1-149			
Carbazole	0.439	0.040	mg/kg	0.400		110	29.8-144			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 12:16

Semivolatile Organic Compounds by GCMS - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4080102 - SW846-3510
LCS (4080102-BS1)

Prepared: 01-Aug-14 Analyzed: 05-Aug-14

Fluoranthene	0.425	0.040	mg/kg	0.400		106	34.6-148		
Pyrene	0.436	0.040	mg/kg	0.400		109	24.8-154		
Benzo[a]anthracene	0.438	0.040	mg/kg	0.400		110	0-179		
Chrysene	0.422	0.040	mg/kg	0.400		106	35.1-150		
Benzo[b]fluoranthene	0.393	0.040	mg/kg	0.400		98.2	17.6-158		
Benzo[k]fluoranthene	0.470	0.040	mg/kg	0.400		117	10.6-169		
Benzo[a]pyrene	0.436	0.040	mg/kg	0.400		109	2.25-166		
Indeno[1,2,3-cd]pyrene	0.397	0.040	mg/kg	0.400		99.3	0-181		
Dibenz[a,h]anthracene	0.427	0.040	mg/kg	0.400		107	2.49-177		
Benzo[g,h,i]perylene	0.467	0.040	mg/kg	0.400		117	0-173		
Surrogate: Nitrobenzene-d5	1.84		mg/kg	2.00		91.8	16.1-91.8		
Surrogate: 2-Fluorobiphenyl	1.80		mg/kg	2.00		89.9	27.2-92.9		
Surrogate: Terphenyl-d4	2.09		mg/kg	2.00		104	21.3-96.1		

LCS Dup (4080102-BSD1)

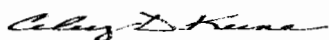
Prepared: 01-Aug-14 Analyzed: 05-Aug-14

Naphthalene	0.412	0.040	mg/kg	0.400		103	5.46-157	1.63	6.7
2-Methylnaphthalene	0.448	0.040	mg/kg	0.400		112	16.1-146	2.36	8.99
Acenaphthylene	0.410	0.040	mg/kg	0.400		103	21.6-144	2.61	14.6
Acenaphthene	0.421	0.040	mg/kg	0.400		105	27-143	1.34	6.99
Fluorene	0.427	0.040	mg/kg	0.400		107	30.9-138	2.46	13.9
Phenanthrene	0.414	0.040	mg/kg	0.400		103	38.6-149	6.14	14.6
Anthracene	0.421	0.040	mg/kg	0.400		105	36.1-149	4.39	18.5
Carbazole	0.436	0.040	mg/kg	0.400		109	29.8-144	0.743	23.4
Fluoranthene	0.421	0.040	mg/kg	0.400		105	34.6-148	0.931	19.7
Pyrene	0.434	0.040	mg/kg	0.400		108	24.8-154	0.488	23
Benzo[a]anthracene	0.441	0.040	mg/kg	0.400		110	0-179	0.564	32.5
Chrysene	0.427	0.040	mg/kg	0.400		107	35.1-150	1.17	19.4
Benzo[b]fluoranthene	0.430	0.040	mg/kg	0.400		107	17.6-158	9.04	31.4
Benzo[k]fluoranthene	0.412	0.040	mg/kg	0.400		103	10.6-169	13.2	44.6
Benzo[a]pyrene	0.432	0.040	mg/kg	0.400		108	2.25-166	0.895	60.5
Indeno[1,2,3-cd]pyrene	0.403	0.040	mg/kg	0.400		101	0-181	1.41	77
Dibenz[a,h]anthracene	0.430	0.040	mg/kg	0.400		108	2.49-177	0.849	63.3

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 12:16

Semivolatile Organic Compounds by GCMS - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4080102 - SW846-3510
LCS Dup (4080102-BSD1)


Prepared: 01-Aug-14 Analyzed: 05-Aug-14

Benzo[g,h,i]perylene	0.469	0.040	mg/kg	0.400		117	0-173	0.288	77.4
Surrogate: Nitrobenzene-d5	1.75		mg/kg	2.00		87.7	16.1-91.8		
Surrogate: 2-Fluorobiphenyl	1.79		mg/kg	2.00		89.6	27.2-92.9		
Surrogate: Terphenyl-d14	2.09		mg/kg	2.00		105	21.3-96.1		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 12:16

General Chemistry - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B408119 - General Prep - Wet Chem
Blank (B408119-BLK1)

Prepared & Analyzed: 13-Aug-14

Cyanide, Total ND 0.0100 mg/kg wet

LCS (B408119-BS1)

Prepared & Analyzed: 13-Aug-14

Cyanide, Total 0.0466 0.0100 mg/kg wet 0.0500 93.2 80-120

LCS Dup (B408119-BSD1)

Prepared & Analyzed: 13-Aug-14

Cyanide, Total 0.0478 0.0100 mg/kg wet 0.0500 95.6 80-120 2.54 20

Batch B408129 - General Prep - Wet Chem
Blank (B408129-BLK1)

Prepared & Analyzed: 14-Aug-14

Cyanide, Total ND 0.0100 mg/kg wet

LCS (B408129-BS1)

Prepared & Analyzed: 14-Aug-14

Cyanide, Total 0.0444 0.0100 mg/kg wet 0.0500 88.8 80-120

LCS Dup (B408129-BSD1)

Prepared & Analyzed: 14-Aug-14

Cyanide, Total 0.0482 0.0100 mg/kg wet 0.0500 96.4 80-120 8.21 20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 12:16

Soluble (DI Water Extraction) - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B408065 - General Prep - Wet Chem

Blank (B408065-BLK1)				Prepared & Analyzed: 08-Aug-14						
Nitrite as N	ND	0.200	mg/kg wet							
LCS (B408065-BS1)				Prepared & Analyzed: 08-Aug-14						
Nitrite as N	0.101	0.020	mg/kg wet	0.100		101	80-120			
LCS Dup (B408065-BSD1)				Prepared & Analyzed: 08-Aug-14						
Nitrite as N	0.100	0.020	mg/kg wet	0.100		100	80-120	0.995	20	

Batch B408161 - General Prep - Wet Chem

Blank (B408161-BLK1)				Prepared & Analyzed: 19-Aug-14						
Nitrate/Nitrite as N	ND	0.020	mg/kg wet							
LCS (B408161-BS1)				Prepared & Analyzed: 19-Aug-14						
Nitrate/Nitrite as N	1.08	0.020	mg/kg wet	1.00		108	80-120			
LCS Dup (B408161-BSD1)				Prepared & Analyzed: 19-Aug-14						
Nitrate/Nitrite as N	1.08	0.020	mg/kg wet	1.00		108	80-120	0.00	20	

Batch B408235 - General Prep - Wet Chem

Blank (B408235-BLK1)				Prepared & Analyzed: 26-Aug-14						
Fluoride	ND	0.200	mg/kg wet							
LCS (B408235-BS1)				Prepared & Analyzed: 26-Aug-14						
Fluoride	1.06	0.200	mg/kg wet	1.00		106	85-115			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:Reported:
31-Aug-14 12:16**Soluble (DI Water Extraction) - Quality Control****Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch B408235 - General Prep - Wet Chem

LCS Dup (B408235-BSD1)

Prepared & Analyzed: 26-Aug-14

Fluoride	1.06	0.200	mg/kg wet	1.00	106	85-115	0.189	20	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 12:16


Total Metals by ICP - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch B408112 - EPA 3050									
Blank (B408112-BLK1)									
Prepared: 13-Aug-14 Analyzed: 20-Aug-14									
Zinc	ND	0.050	mg/kg dry						
Iron	ND	0.050	mg/kg dry						
Barium	ND	0.010	mg/kg dry						
LCS (B408112-BS1)									
Prepared: 13-Aug-14 Analyzed: 20-Aug-14									
Barium	1.81	0.010	mg/kg dry	2.00		90.6	85-115		
Zinc	1.82	0.050	mg/kg dry	2.00		90.9	85-115		
Iron	3.70	0.050	mg/kg dry	4.00		92.5	85-115		
LCS Dup (B408112-BSD1)									
Prepared: 13-Aug-14 Analyzed: 20-Aug-14									
Barium	1.76	0.010	mg/kg dry	2.00		88.2	85-115	2.73	20
Iron	3.61	0.050	mg/kg dry	4.00		90.3	85-115	2.36	20
Zinc	1.76	0.050	mg/kg dry	2.00		88.1	85-115	3.13	20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 12:16

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 B408169 - EPA 3050M
Blank (B408169-BLK1)

Prepared & Analyzed: 21-Aug-14

Cadmium	ND	0.0001	mg/kg dry							
Copper	0.0004	0.0001	mg/kg dry							B1
Chromium	ND	0.0010	mg/kg dry							
Arsenic	ND	0.0005	mg/kg dry							
Lead	0.0008	0.0005	mg/kg dry							B1
Uranium	ND	0.0001	mg/kg dry							
Silver	ND	0.0001	mg/kg dry							
Selenium	ND	0.0010	mg/kg dry							
Manganese	0.0016	0.0005	mg/kg dry							B1

LCS (B408169-BS1)

Prepared & Analyzed: 21-Aug-14

Cadmium	0.533	0.0001	mg/kg dry	0.500		107	85-115			
Silver	0.473	0.0001	mg/kg dry	0.500		94.7	85-115			
Selenium	2.80	0.0010	mg/kg dry	2.50		112	85-115			
Copper	0.491	0.0001	mg/kg dry	0.500		98.1	85-115			
Chromium	0.481	0.0010	mg/kg dry	0.500		96.2	85-115			
Lead	0.519	0.0005	mg/kg dry	0.500		104	85-115			
Arsenic	0.552	0.0005	mg/kg dry	0.500		110	85-115			
Manganese	0.534	0.0005	mg/kg dry	0.500		107	85-115			
Uranium	0.550	0.0001	mg/kg dry	0.500		110	85-115			

LCS Dup (B408169-BSD1)

Prepared & Analyzed: 21-Aug-14

Cadmium	0.516	0.0001	mg/kg dry	0.500		103	85-115	3.21	20	
Chromium	0.484	0.0010	mg/kg dry	0.500		96.8	85-115	0.608	20	
Copper	0.494	0.0001	mg/kg dry	0.500		98.7	85-115	0.578	20	
Selenium	2.64	0.0010	mg/kg dry	2.50		106	85-115	5.96	20	
Lead	0.509	0.0005	mg/kg dry	0.500		102	85-115	1.88	20	
Manganese	0.530	0.0005	mg/kg dry	0.500		106	85-115	0.879	20	
Silver	0.453	0.0001	mg/kg dry	0.500		90.6	85-115	4.43	20	
Uranium	0.560	0.0001	mg/kg dry	0.500		112	85-115	1.82	20	
Arsenic	0.513	0.0005	mg/kg dry	0.500		103	85-115	7.30	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 12:16

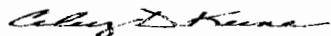
Total Mercury by CVAA - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B408163 - EPA 7471										
Blank (B408163-BLK1)				Prepared & Analyzed: 20-Aug-14						
Mercury	ND	0.0002	mg/kg wet							
LCS (B408163-BS1)				Prepared & Analyzed: 20-Aug-14						
Mercury	0.0019	0.0002	mg/kg wet	0.00200		93.6	85-115			
LCS Dup (B408163-BSD1)				Prepared & Analyzed: 20-Aug-14						
Mercury	0.0019	0.0002	mg/kg wet	0.00200		96.1	85-115	2.69	20	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

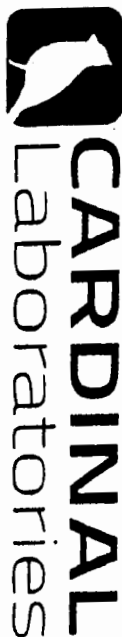
Z-01a	1.0 ± 0.3
Z-01	0.5 ± 0.1
SUB-SS	Analysis subcontracted to SunStar Laboratories, Inc.
SUB-AL	Analysis subcontracted to Anatek Labs, Inc.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
H2	Sample analysis performed past hold time specified by the method.
BS2	Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
B1	Target analyte detected in method blank at or above method reporting limit. Sample concentration found to be 10 times above the concentration found in the method blank or less than the reporting limit.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

163

Company Name: <u>Stan Don LF</u>		P.O. #:	
Project Manager: <u>G. Johnson</u>			
Address: <u>Box 1032</u>		Company:	
City: <u>Lawrence</u>	State: <u>NM</u> Zip: <u>88240</u>	Attn: <u>Sam</u>	
Phone #: <u>505.348.2</u>	Fax #:	Address:	
Project #: <u>Stan Don LF</u>	Project Owner: <u>D. Johnson</u>	City:	
Project Name: <u>Stan Don (NM-01-045)</u>	State: <u>NM</u> Zip: <u>88240</u>	State:	
Project Location: <u>Unit E 32-15-35</u>	Phone #:	Zip:	
Sampler Name: <u>G. Johnson</u>	Fax #:		
FOR LAB USE ONLY			
Lab I.D.	Sample I.D.	MATRIX	PRESERV
<u>H412389</u>	<u>3-11</u>	(G) OR (C) COMP.	
<u>1</u>	<u>3-11</u>	# CONTAINERS	
<u>2</u>	<u>3-11</u>	GROUNDWATER	
<u>3</u>	<u>3-11</u>	WASTEWATER	
<u>4</u>	<u>3-11</u>	SOIL	
		OIL	
		SLUDGE	
		OTHER:	
		ACID/BASE:	
		ICE/COOL	
		OTHER:	
		DATE	TIME
		<u>9/4</u>	<u>3:15</u>
		<u>9/4</u>	<u>3:50</u>
		<u>9/4</u>	<u>4:35</u>
		<u>9/4</u>	<u>6:10</u>
ANALYSIS REQUEST			
<u>BTEX (8021 B & 82408)</u>			
<u>TPH (418.1)</u>			
<u>Chlorides (300.1)</u>			
<u>Arsenic</u>			
<u>Barium</u>			
<u>Cadmium</u>			
<u>Cyanide</u>			
<u>Lead</u>			
<u>Mercury</u>			
<u>Silicon</u>			
<u>Silver</u>			
<u>PCB</u>			

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Relinquished By: Stan Don Date: 9/30 Received By: Stan Don Date: 9/30

Delivered By: (Circle One) UPS Sample Condition: Cool Intact Checked By: CP

Sampler - UPS - Bus - Other: 440 #54

REMARKS: A+B 20.6.2313
6010 B on 6020

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

Company Name: <u>Jon Dan LF</u>		P.O. #:		
Project Manager: <u>G. Johnson</u>				
Address: <u>Box 1032</u>		City: <u>Leavington</u>		
State: <u>NM</u> Zip: <u>88240</u>		Attn: <u>[Signature]</u>		
Phone #: <u>505.398.2</u> Fax #: <u></u>		Address: <u></u>		
Project #: <u>Jon Dan LF</u> Project Owner: <u>D. Watson</u>		City: <u></u>		
Project Name: <u>Jon Dan LF (NM-01-048)</u>		State: <u></u> Zip: <u></u>		
Project Location: <u>Unit E 32-15-35</u>		Phone #: <u></u>		
Sampler Name: <u>G. Johnson</u>		Fax #: <u></u>		
FOR LAB USE ONLY		ANALYSIS REQUEST		
Lab I.D.	Sample I.D.	MATRIX	PRESERV	SAMPLING
4403389		(G) OR (C)OMP.		
		# CONTAINERS		
		GROUNDWATER		
		WASTEWATER		
		SOIL		
		OIL		
		SLUDGE		
		OTHER:		
		ACID/BASE:		
		ICE / COOL		
		OTHER:		
		DATE	TIME	
5	Cell 3-A	9/4	3:45	EDC
6	Cell 3-B	9/4	3:50	DEG
7	Cell 3-C	9/4	4:35	PCE
8	Cell 3-D	9/4	5:10	TCE
				Methylene Chloride
				Chloroform
				EDB
				Trichloroethane
				Tetrachloroethane
				Vinyl Chloride
				Polycyclic Aromatic Hydro.

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Relinquished By: [Signature] Date: 9-14 Time: 9:30 Received By: [Signature] Date: 9-14 Time: 9:30

Delivered By: (Circle One) UPS - Bus - Other: 440 #57 Sample Condition: Cool Intact Yes No Yes No CHECKED BY: [Signature] (Initials)

Sampler - UPS - Bus - Other: 440 #57 REMARKS: A+B 20.6.2313
6510 B ~ 60020

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 3

101 East Martand, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: San Don CF		P.O. #:
Project Manager: G. Watson		Company:
Address: Rm 632		Attn: Tony
City: Lowington	State: NM Zip: 87420	Address:
Phone #: 681-3492	Fax #: 681-3492	City:
Project #: San Don CF	Project Owner: D. Watson	State:
Project Name: San Don CF (NM-01-245)	Phone #: 32.15.35	Zip:
Project Location: Unit E	Fax #:	
Sampler Name: G. Watson	PRESERV:	SAMPLING
FOR LAB USE ONLY		
Lab I.D.	Sample I.D.	
402389	Cell 3-19	
10	Cell 3-19	
11	Cell 3-19	
12	Cell 3-19	
		(GRAB OR (C)OMP.
		# CONTAINERS
		GROUNDWATER
		WASTEWATER
		SOIL
		OIL
		SLUDGE
		OTHER :
		ACID/BASE:
		ICE / COOL
		OTHER :
	DATE	TIME
	9/4	3:15
	9/4	3:50
	9/4	4:35
	9/4	5:00
ANALYSIS REQUEST		
Benzo-a-pyrene		
Copper		
Iron		
Manganese		
Sulfate		
Zinc		
Ra 226 & Ra 228		
Uranium		
F.No 3		
Phenols		
PH		
Carbon Tetrachloride		

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Relinquished By: **8:54** Received By: **9/30**

Relinquished By: **9/30** Received By: **9/30**

Delivered By: (Circle One) **44%** Sample Condition: **Intact** CHECKED BY: **KG**

Sampler - UPS - Bus - Other: **44%** **KG**

REMARKS: **At 8 20-6-2313**
6010 B ~ 6020

5 YEAR TEST

August 28, 2014

JAY DAN LANDFARM

JAY DAN LANDFARM

PO BOX 632

LOVINGTON, NM 88260

RE: JAY DAN NM 1.045

Enclosed are the results of analyses for samples received by the laboratory on 07/30/14 13:45.

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

Cardinal Laboratories is accredited 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)

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

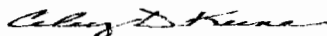
Analytical Results For:JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260Project: JAY DAN NM 1.045
Project Number: NOT GIVEN
Project Manager: JAY DAN LANDFARM
Fax To:Reported:
28-Aug-14 14:14

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL 4 - A	H402340-01	Soil	29-Jul-14 14:15	30-Jul-14 13:45
CELL 4 - B	H402340-02	Soil	29-Jul-14 15:00	30-Jul-14 13:45
CELL 4 - C	H402340-03	Soil	29-Jul-14 15:20	30-Jul-14 13:45
CELL 4 - D	H402340-04	Soil	29-Jul-14 15:55	30-Jul-14 13:45

Cardinal Laboratories

*==Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN NM 1.045
Project Number: NOT GIVEN
Project Manager: JAY DAN LANDFARM
Fax To:

Reported:
28-Aug-14 14:14

CELL 4 - A H402340-01 (Soil)

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

Inorganic Compounds

Alkalinity, Bicarbonate	508		20.0	mg/kg	1	4071711	AP	14-Aug-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4071711	AP	14-Aug-14	310.1	
Chloride	ND		16.0	mg/kg	4	4080710	AP	13-Aug-14	4500-Cl-B	
Conductivity	228		0.250	uS/cm	1	4081206	AP	12-Aug-14	120.1	
pH*	8.28		0.100	pH Units	1	4081203	AP	12-Aug-14	9045	
Sulfate	100		40.0	mg/kg	4	4081306	AP	13-Aug-14	375.4	
Alkalinity, Total*	416		16.0	mg/kg	4	4071711	AP	14-Aug-14	310.1	

Organic Compounds

TPH 418.1	ND		100	mg/kg	10	4080611	CK	18-Aug-14	418.1	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	ND		0.050	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.3 %	89.4-126		4080106	MS	01-Aug-14	8021B	

Green Analytical Laboratories

General Chemistry

% Dry Solids	95.4			%	1	B408030	LLG	07-Aug-14	EPA160.3	
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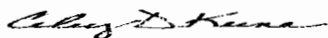
Total Metals by ICP

Barium	186		10.0	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B	
Calcium	228000		1000	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B	
Iron	5960		50.0	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B	
Magnesium	3540		1000	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B	
Potassium	1250		100	mg/kg dry	100	B408040	JGS	06-Aug-14	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN NM 1.045
 Project Number: NOT GIVEN
 Project Manager: JAY DAN LANDFARM
 Fax To:

 Reported:
 28-Aug-14 14:14

CELL 4 - A
H402340-01 (Soil)

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

Sodium	154		100	mg/kg dry	100	B408040	JGS	06-Aug-14	EPA6010 B	
Zinc	66.6		50.0	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B	

Total Metals by ICPMS

Arsenic	4.10		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Cadmium	0.996		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Chromium	5.85		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Copper	4.85		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Lead	4.21		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Manganese	97.7		0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Selenium	2.54		1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Silver	0.340		0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	M5

Total Mercury by CVAA

Mercury	ND		0.103	mg/kg dry	490	B408163	JGS	20-Aug-14	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN NM 1.045
Project Number: NOT GIVEN
Project Manager: JAY DAN LANDFARM
Fax To:

Reported:
28-Aug-14 14:14

CELL 4 - B
H402340-02 (Soil)

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

Alkalinity, Bicarbonate	468		20.0	mg/kg	1	4071711	AP	14-Aug-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4071711	AP	14-Aug-14	310.1	
Chloride	ND		16.0	mg/kg	4	4080710	AP	13-Aug-14	4500-Cl-B	
Conductivity	208		0.250	uS/cm	1	4081206	AP	12-Aug-14	120.1	
pH*	8.06		0.100	pH Units	1	4081203	AP	12-Aug-14	9045	
Sulfate	47.3		40.0	mg/kg	4	4081306	AP	13-Aug-14	375.4	
Alkalinity, Total*	384		16.0	mg/kg	4	4071711	AP	14-Aug-14	310.1	

Organic Compounds

TPH 418.1	ND		100	mg/kg	10	4080611	CK	18-Aug-14	418.1	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	ND		0.050	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.8 %	89.4-126		4080106	MS	01-Aug-14	8021B	

Green Analytical Laboratories
General Chemistry

% Dry Solids	94.3		%	1	B408030	LLG	07-Aug-14	EPA160.3	
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Total Metals by ICP

Barium	116		10.0	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B	
Calcium	30000		1000	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B	
Iron	13300		50.0	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B	
Magnesium	3150		1000	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B	
Potassium	2980		100	mg/kg dry	100	B408040	JGS	06-Aug-14	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN NM 1.045
 Project Number: NOT GIVEN
 Project Manager: JAY DAN LANDFARM
 Fax To:

 Reported:
 28-Aug-14 14:14

CELL 4 - B
H402340-02 (Soil)

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

Sodium	ND	100	mg/kg dry	100	B408040	JGS	06-Aug-14	EPA6010 B
Zinc	ND	50.0	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B

Total Metals by ICPMS

Arsenic	3.06	0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Cadmium	0.612	0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Chromium	11.7	1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Copper	6.98	0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Lead	8.85	0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Manganese	167	0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Selenium	1.46	1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Silver	0.120	0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A


Total Mercury by CVAA

Mercury	ND	0.104	mg/kg dry	490	B408163	JGS	20-Aug-14	EPA7471
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN NM 1.045
 Project Number: NOT GIVEN
 Project Manager: JAY DAN LANDFARM
 Fax To:

 Reported:
 28-Aug-14 14:14

CELL 4 - C
H402340-03 (Soil)

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

Alkalinity, Bicarbonate	508		20.0	mg/kg	1	4071711	AP	14-Aug-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4071711	AP	14-Aug-14	310.1	
Chloride	ND		16.0	mg/kg	4	4080710	AP	13-Aug-14	4500-Cl-B	
Conductivity	224		0.250	uS/cm	1	4081206	AP	12-Aug-14	120.1	
pH*	7.97		0.100	pH Units	1	4081203	AP	12-Aug-14	9045	
Sulfate	71.7		40.0	mg/kg	4	4081306	AP	13-Aug-14	375.4	
Alkalinity, Total*	416		16.0	mg/kg	4	4071711	AP	14-Aug-14	310.1	

Organic Compounds

TPH 418.1	ND		100	mg/kg	10	4082804	CK	26-Aug-14	418.1	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	ND		0.050	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			98.1 %	89.4-126		4080106	MS	01-Aug-14	8021B	

Green Analytical Laboratories
General Chemistry

% Dry Solids	91.9		%	1	B408030	LLG	07-Aug-14	EPA160.3		
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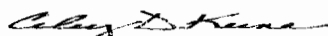
Total Metals by ICP

Barium	135		10.0	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B	
Calcium	16600		1000	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B	
Iron	17400		50.0	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B	
Magnesium	3190		1000	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B	
Potassium	3790		100	mg/kg dry	100	B408040	JGS	06-Aug-14	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN NM 1.045
 Project Number: NOT GIVEN
 Project Manager: JAY DAN LANDFARM
 Fax To:

 Reported:
 28-Aug-14 14:14

CELL 4 - C
H402340-03 (Soil)

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

Sodium	ND	100	mg/kg dry	100	B408040	JGS	06-Aug-14	EPA6010 B
Zinc	ND	50.0	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B

Total Metals by ICPMS

Arsenic	3.27	0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Cadmium	0.596	0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Chromium	15.1	1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Copper	9.71	0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Lead	12.0	0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Manganese	244	0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Selenium	ND	1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Silver	0.132	0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A

Total Mercury by CVAA

Mercury	ND	0.106	mg/kg dry	485	B408163	JGS	20-Aug-14	EPA7471
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN NM 1.045
Project Number: NOT GIVEN
Project Manager: JAY DAN LANDFARM
Fax To:

Reported:
28-Aug-14 14:14

CELL 4 - D
H402340-04 (Soil)

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

Alkalinity, Bicarbonate	352		20.0	mg/kg	1	4071711	AP	14-Aug-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4071711	AP	14-Aug-14	310.1	
Chloride	ND		16.0	mg/kg	4	4080811	HM	11-Aug-14	4500-Cl-B	
Conductivity	151		0.250	uS/cm	1	4081206	AP	12-Aug-14	120.1	
pH*	8.18		0.100	pH Units	1	4081203	AP	12-Aug-14	9045	
Sulfate	47.3		40.0	mg/kg	4	4081306	AP	13-Aug-14	375.4	
Alkalinity, Total*	288		16.0	mg/kg	4	4071711	AP	14-Aug-14	310.1	

Organic Compounds

TPH 418.1	ND		100	mg/kg	10	4082804	CK	26-Aug-14	418.1	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	ND		0.050	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Toluene*	ND		0.050	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Ethylbenzene*	ND		0.050	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Total Xylenes*	ND		0.150	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Total BTEX	ND		0.300	mg/kg	50	4080106	MS	01-Aug-14	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.2 %	89.4-126		4080106	MS	01-Aug-14	8021B	

Green Analytical Laboratories
General Chemistry

% Dry Solids	95.0			%	1	B408030	LLG	07-Aug-14	EPA160.3	
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Total Metals by ICP

Barium	146		10.0	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B	
Calcium	84200		1000	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B	
Iron	6940		50.0	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B	
Magnesium	3380		1000	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B	
Potassium	1810		100	mg/kg dry	100	B408040	JGS	06-Aug-14	EPA6010 B	

Cardinal Laboratories

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 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN NM 1.045
 Project Number: NOT GIVEN
 Project Manager: JAY DAN LANDFARM
 Fax To:

 Reported:
 28-Aug-14 14:14

CELL 4 - D
H402340-04 (Soil)

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

Sodium	ND	100	mg/kg dry	100	B408040	JGS	06-Aug-14	EPA6010 B
Zinc	ND	50.0	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B

Total Metals by ICPMS

Arsenic	3.34	0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Cadmium	0.438	0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Chromium	7.59	1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Copper	4.53	0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Lead	5.40	0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Manganese	96.4	0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Selenium	ND	1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Silver	ND	0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A


Total Mercury by CVAA

Mercury	ND	0.102	mg/kg dry	485	B408163	JGS	20-Aug-14	EPA7471
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Cardinal Laboratories

*==Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN NM 1.045
Project Number: NOT GIVEN
Project Manager: JAY DAN LANDFARM
Fax To:

Reported:
28-Aug-14 14:14

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4071711 - General Prep - Wet Chem										
Blank (4071711-BLK1)				Prepared & Analyzed: 17-Jul-14						
Alkalinity, Carbonate	ND	0.00	mg/kg							
Alkalinity, Bicarbonate	ND	5.00	mg/kg							
Alkalinity, Total	4.00	4.00	mg/kg							
LCS (4071711-BS1)				Prepared & Analyzed: 17-Jul-14						
Alkalinity, Carbonate	ND	0.00	mg/kg				80-120			
Alkalinity, Bicarbonate	122	5.00	mg/kg				80-120			
Alkalinity, Total	100	4.00	mg/kg	100		100	80-120			
LCS Dup (4071711-BSD1)				Prepared & Analyzed: 17-Jul-14						
Alkalinity, Carbonate	ND	0.00	mg/kg				80-120		20	
Alkalinity, Bicarbonate	127	5.00	mg/kg				80-120	3.86	20	
Alkalinity, Total	104	4.00	mg/kg	100		104	80-120	3.92	20	
Batch 4080710 - 1:4 DI Water										
Blank (4080710-BLK1)				Prepared & Analyzed: 07-Aug-14						
Chloride	ND	16.0	mg/kg							
LCS (4080710-BS1)				Prepared & Analyzed: 07-Aug-14						
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (4080710-BSD1)				Prepared & Analyzed: 07-Aug-14						
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	
Batch 4080811 - 1:4 DI Water										
Blank (4080811-BLK1)				Prepared & Analyzed: 08-Aug-14						
Chloride	ND	16.0	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN NM 1.045
 Project Number: NOT GIVEN
 Project Manager: JAY DAN LANDFARM
 Fax To:

 Reported:
 28-Aug-14 14:14

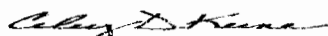
Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080811 - 1:4 DI Water										
LCS (4080811-BS1)				Prepared & Analyzed: 08-Aug-14						
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (4080811-BSD1)				Prepared & Analyzed: 08-Aug-14						
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	
Batch 4081203 - NO PREP										
LCS (4081203-BS1)				Prepared & Analyzed: 12-Aug-14						
pH	7.15		pH Units	7.00		102	90-110			
Duplicate (4081203-DUP1)				Source: H402339-01 Prepared & Analyzed: 12-Aug-14						
pH	7.45	0.100	pH Units		7.43			0.269	20	
Batch 4081206 - General Prep - Wet Chem										
LCS (4081206-BS1)				Prepared & Analyzed: 12-Aug-14						
Conductivity	493		uS/cm	500		98.6	80-120			
Duplicate (4081206-DUP1)				Source: H402340-01 Prepared & Analyzed: 12-Aug-14						
Conductivity	229	0.250	uS/cm		228			0.350	20	
Batch 4081306 - General Prep - Wet Chem										
Blank (4081306-BLK1)				Prepared & Analyzed: 13-Aug-14						
Sulfate	ND	10.0	mg/kg							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260Project: JAY DAN NM 1.045
Project Number: NOT GIVEN
Project Manager: JAY DAN LANDFARM
Fax To:Reported:
28-Aug-14 14:14**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4081306 - General Prep - Wet Chem**LCS (4081306-BS1)**

Prepared & Analyzed: 13-Aug-14

Sulfate	16.1	10.0	mg/kg	20.0	80.7	80-120
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LCS Dup (4081306-BSD1)

Prepared & Analyzed: 13-Aug-14

Sulfate	16.3	10.0	mg/kg	20.0	81.6	80-120	1.11	20
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN NM 1.045
 Project Number: NOT GIVEN
 Project Manager: JAY DAN LANDFARM
 Fax To:

 Reported:
 28-Aug-14 14:14

Organic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	----------------	-----	--------------	-------

Batch 4080611 - Solvent Extraction
Blank (4080611-BLK1)

Prepared & Analyzed: 18-Aug-14

TPH 418.1 ND 100 mg/kg

LCS (4080611-BS1)

Prepared & Analyzed: 18-Aug-14

TPH 418.1 5340 100 mg/kg 5000 107 80-120

LCS Dup (4080611-BSD1)

Prepared & Analyzed: 18-Aug-14

TPH 418.1 5230 100 mg/kg 5000 105 80-120 2.06 20

Batch 4082804 - Solvent Extraction
Blank (4082804-BLK1)

Prepared & Analyzed: 26-Aug-14

TPH 418.1 ND 100 mg/kg

LCS (4082804-BS1)

Prepared & Analyzed: 26-Aug-14

TPH 418.1 5350 100 mg/kg 5000 107 80-120

LCS Dup (4082804-BSD1)

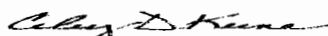
Prepared & Analyzed: 26-Aug-14

TPH 418.1 5410 100 mg/kg 5000 108 80-120 1.17 20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN NM 1.045
 Project Number: NOT GIVEN
 Project Manager: JAY DAN LANDFARM
 Fax To:

 Reported:
 28-Aug-14 14:14


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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4080106 - Volatiles									
Blank (4080106-BLK1)				Prepared: 01-Aug-14 Analyzed: 02-Aug-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		98.0	89.4-126		
LCS (4080106-BS1)				Prepared & Analyzed: 01-Aug-14					
Benzene	1.64	0.050	mg/kg	2.00		82.2	76.4-135		
Toluene	1.67	0.050	mg/kg	2.00		83.7	80.2-135		
Ethylbenzene	1.61	0.050	mg/kg	2.00		80.7	78.5-133		
Total Xylenes	5.02	0.150	mg/kg	6.00		83.7	80.1-135		
Surrogate: 4-Bromofluorobenzene (PID)	0.0493		mg/kg	0.0500		98.7	89.4-126		
LCS Dup (4080106-BSD1)				Prepared & Analyzed: 01-Aug-14					
Benzene	1.90	0.050	mg/kg	2.00		95.2	76.4-135	14.7	16.4
Toluene	1.91	0.050	mg/kg	2.00		95.6	80.2-135	13.2	16.6
Ethylbenzene	1.85	0.050	mg/kg	2.00		92.4	78.5-133	13.6	16.1
Total Xylenes	5.73	0.150	mg/kg	6.00		95.4	80.1-135	13.1	15.8
Surrogate: 4-Bromofluorobenzene (PID)	0.0484		mg/kg	0.0500		96.8	89.4-126		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN NM 1.045
Project Number: NOT GIVEN
Project Manager: JAY DAN LANDFARM
Fax To:

Reported:
28-Aug-14 14:14

Total Metals by ICP - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B408040 - EPA 3050
Blank (B408040-BLK1)

Prepared & Analyzed: 06-Aug-14

Iron	0.081	0.050	mg/kg dry							B1
Magnesium	ND	1.00	mg/kg dry							
Potassium	ND	1.00	mg/kg dry							
Calcium	ND	1.00	mg/kg dry							
Sodium	ND	1.00	mg/kg dry							
Zinc	0.068	0.050	mg/kg dry							B1
Barium	ND	0.010	mg/kg dry							

LCS (B408040-BS1)

Prepared & Analyzed: 06-Aug-14

Sodium	6.32	1.00	mg/kg dry	6.48		97.5	85-115			
Calcium	3.77	1.00	mg/kg dry	4.00		94.4	85-115			
Zinc	1.82	0.050	mg/kg dry	2.00		90.9	85-115			
Iron	3.66	0.050	mg/kg dry	4.00		91.4	85-115			
Barium	1.79	0.010	mg/kg dry	2.00		89.4	85-115			
Magnesium	18.6	1.00	mg/kg dry	20.0		92.8	85-115			
Potassium	7.43	1.00	mg/kg dry	8.00		92.8	85-115			

LCS Dup (B408040-BSD1)

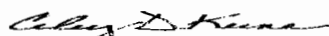
Prepared & Analyzed: 06-Aug-14

Calcium	3.90	1.00	mg/kg dry	4.00		97.6	85-115	3.34	20	
Barium	1.79	0.010	mg/kg dry	2.00		89.3	85-115	0.0708	20	
Iron	3.66	0.050	mg/kg dry	4.00		91.6	85-115	0.142	20	
Zinc	1.81	0.050	mg/kg dry	2.00		90.4	85-115	0.575	20	
Magnesium	18.7	1.00	mg/kg dry	20.0		93.7	85-115	0.932	20	
Sodium	6.28	1.00	mg/kg dry	6.48		97.0	85-115	0.567	20	
Potassium	7.65	1.00	mg/kg dry	8.00		95.7	85-115	2.99	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN NM 1.045
 Project Number: NOT GIVEN
 Project Manager: JAY DAN LANDFARM
 Fax To:

 Reported:
 28-Aug-14 14:14

Total Metals by ICPMS - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B408169 - EPA 3050M
Blank (B408169-BLK1)

Prepared & Analyzed: 21-Aug-14

Copper	0.0004	0.0001	mg/kg dry							B1
Chromium	ND	0.0010	mg/kg dry							
Silver	ND	0.0001	mg/kg dry							
Selenium	ND	0.0010	mg/kg dry							
Arsenic	ND	0.0005	mg/kg dry							
Cadmium	ND	0.0001	mg/kg dry							
Lead	0.0008	0.0005	mg/kg dry							B1
Manganese	0.0016	0.0005	mg/kg dry							B1

LCS (B408169-BS1)

Prepared & Analyzed: 21-Aug-14

Chromium	0.481	0.0010	mg/kg dry	0.500		96.2	85-115			
Manganese	0.534	0.0005	mg/kg dry	0.500		107	85-115			
Silver	0.473	0.0001	mg/kg dry	0.500		94.7	85-115			
Copper	0.491	0.0001	mg/kg dry	0.500		98.1	85-115			
Lead	0.519	0.0005	mg/kg dry	0.500		104	85-115			
Selenium	2.80	0.0010	mg/kg dry	2.50		112	85-115			
Arsenic	0.552	0.0005	mg/kg dry	0.500		110	85-115			
Cadmium	0.533	0.0001	mg/kg dry	0.500		107	85-115			

LCS Dup (B408169-BSD1)

Prepared & Analyzed: 21-Aug-14

Chromium	0.484	0.0010	mg/kg dry	0.500		96.8	85-115	0.608	20	
Selenium	2.64	0.0010	mg/kg dry	2.50		106	85-115	5.96	20	
Arsenic	0.513	0.0005	mg/kg dry	0.500		103	85-115	7.30	20	
Cadmium	0.516	0.0001	mg/kg dry	0.500		103	85-115	3.21	20	
Copper	0.494	0.0001	mg/kg dry	0.500		98.7	85-115	0.578	20	
Silver	0.453	0.0001	mg/kg dry	0.500		90.6	85-115	4.43	20	
Lead	0.509	0.0005	mg/kg dry	0.500		102	85-115	1.88	20	
Manganese	0.530	0.0005	mg/kg dry	0.500		106	85-115	0.879	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN NM 1.045
 Project Number: NOT GIVEN
 Project Manager: JAY DAN LANDFARM
 Fax To:

 Reported:
 28-Aug-14 14:14

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
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Batch B408163 - EPA 7471
Blank (B408163-BLK1)

Prepared & Analyzed: 20-Aug-14

Mercury ND 0.0002 mg/kg wet

LCS (B408163-BS1)

Prepared & Analyzed: 20-Aug-14

Mercury 0.0019 0.0002 mg/kg wet 0.00200 93.6 85-115

LCS Dup (B408163-BSD1)

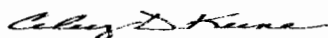
Prepared & Analyzed: 20-Aug-14

Mercury 0.0019 0.0002 mg/kg wet 0.00200 96.1 85-115 2.69 20

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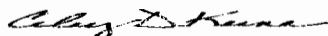
Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

M5	Sample was chosen for matrix spike. Spike recovery did not meet laboratory acceptance criteria, possible matrix interference in sample.
B1	Target analyte detected in method blank at or above method reporting limit. Sample concentration found to be 10 times above the concentration found in the method blank or less than the reporting limit.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



Page 20 of 20

Company Name: **500 Day**

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

**JAYDAN LANDFARM
NM-045**

BI-ANNUAL TESTING

December 2014

RECEIVED
JAN 10 2015
JAN 10 2015

January 2015

NMOCD Environmental
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: JayDan Landfarm
Bi-Annual Testing

Dear Sir:

Find within the bi-annual testing as required. All test results were compared to background and PQL and all were in compliance.

The treatment zone samples from cells 2 and 4 were not included, we are in process of remediating as required, and we have not been using these cells.

Should you have any questions, please call.

Thanks,

A handwritten signature in black ink, appearing to read 'Danny Watson', with a large, sweeping initial 'D'.

JayDan Landfarm
Danny Watson
Box 632
Lovington, NM 88260
575-631-3482

December 29, 2014

DANNY WATSON
JAY DAN LANDFARM
PO BOX 632
LOVINGTON, NM 88260

RE: JAY DAN LF (NM1-0045)

Enclosed are the results of analyses for samples received by the laboratory on 12/23/14 9:45.

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

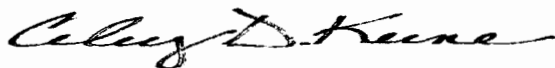
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 DANNY WATSON
 PO BOX 632
 LOVINGTON NM, 88260
 Fax To:

 Received: 12/23/2014
 Reported: 12/29/2014
 Project Name: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Location: UNIT E 32-15-35

 Sampling Date: 12/22/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CELL 1 - T (H403912-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/26/2014	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/23/2014	ND	183	91.4	200	0.346	
DRO >C10-C28	21.9	10.0	12/23/2014	ND	204	102	200	13.7	
EXT DRO >C28-C35	<10.0	10.0	12/23/2014	ND					
Surrogate: 1-Chlorooctane	93.1 %	47.2-157							
Surrogate: 1-Chlorooctadecane	89.3 %	52.1-176							

Sample ID: CELL 3 - T (H403912-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	12/26/2014	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	12/23/2014	ND	183	91.4	200	0.346	
DRO >C10-C28	<50.0	50.0	12/23/2014	ND	204	102	200	13.7	
EXT DRO >C28-C35	<50.0	50.0	12/23/2014	ND					
Surrogate: 1-Chlorooctane	99.0 %	47.2-157							
Surrogate: 1-Chlorooctadecane	106 %	52.1-176							

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by 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 rendered 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, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 DANNY WATSON
 PO BOX 632
 LOVINGTON NM, 88260
 Fax To:

 Received: 12/23/2014
 Reported: 12/29/2014
 Project Name: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Location: UNIT E 32-15-35

 Sampling Date: 12/22/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CELL 1 - V (H403912-03)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/24/2014	ND	1.99	99.4	2.00	8.29	
Toluene*	<0.050	0.050	12/24/2014	ND	1.98	99.1	2.00	8.85	
Ethylbenzene*	<0.050	0.050	12/24/2014	ND	1.90	95.2	2.00	9.62	
Total Xylenes*	<0.150	0.150	12/24/2014	ND	5.84	97.3	6.00	10.1	
Total BTEX	<0.300	0.300	12/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/26/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/23/2014	ND	183	91.4	200	0.346	
DRO >C10-C28	<10.0	10.0	12/23/2014	ND	204	102	200	13.7	
EXT DRO >C28-C35	<10.0	10.0	12/23/2014	ND					

Surrogate: 1-Chlorooctane 99.6 % 47.2-157

Surrogate: 1-Chlorooctadecane 98.5 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 DANNY WATSON
 PO BOX 632
 LOVINGTON NM, 88260
 Fax To:

 Received: 12/23/2014
 Reported: 12/29/2014
 Project Name: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Location: UNIT E 32-15-35

 Sampling Date: 12/22/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CELL 2 - V (H403912-04)

BTEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/24/2014	ND	1.99	99.4	2.00	8.29	
Toluene*	<0.050	0.050	12/24/2014	ND	1.98	99.1	2.00	8.85	
Ethylbenzene*	<0.050	0.050	12/24/2014	ND	1.90	95.2	2.00	9.62	
Total Xylenes*	<0.150	0.150	12/24/2014	ND	5.84	97.3	6.00	10.1	
Total BTEX	<0.300	0.300	12/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/26/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/23/2014	ND	183	91.4	200	0.346	
DRO >C10-C28	<10.0	10.0	12/23/2014	ND	204	102	200	13.7	
EXT DRO >C28-C35	<10.0	10.0	12/23/2014	ND					

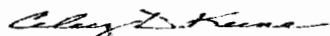
Surrogate: 1-Chlorooctane 100 % 47.2-157

Surrogate: 1-Chlorooctadecane 100 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 DANNY WATSON
 PO BOX 632
 LOVINGTON NM, 88260
 Fax To:

 Received: 12/23/2014
 Reported: 12/29/2014
 Project Name: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Location: UNIT E 32-15-35

 Sampling Date: 12/22/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CELL 3 - V (H403912-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/24/2014	ND	1.99	99.4	2.00	8.29	
Toluene*	<0.050	0.050	12/24/2014	ND	1.98	99.1	2.00	8.85	
Ethylbenzene*	<0.050	0.050	12/24/2014	ND	1.90	95.2	2.00	9.62	
Total Xylenes*	<0.150	0.150	12/24/2014	ND	5.84	97.3	6.00	10.1	
Total BTEX	<0.300	0.300	12/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/26/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/23/2014	ND	183	91.4	200	0.346	
DRO >C10-C28	<10.0	10.0	12/23/2014	ND	204	102	200	13.7	
EXT DRO >C28-C35	<10.0	10.0	12/23/2014	ND					

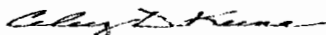
Surrogate: 1-Chlorooctane 101 % 47.2-157

Surrogate: 1-Chlorooctadecane 98.9 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 DANNY WATSON
 PO BOX 632
 LOVINGTON NM, 88260
 Fax To:

 Received: 12/23/2014
 Reported: 12/29/2014
 Project Name: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Location: UNIT E 32-15-35

 Sampling Date: 12/22/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CELL 4 - V (H403912-06)

BTEX 80218			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/24/2014	ND	1.99	99.4	2.00	8.29	
Toluene*	<0.050	0.050	12/24/2014	ND	1.98	99.1	2.00	8.85	
Ethylbenzene*	<0.050	0.050	12/24/2014	ND	1.90	95.2	2.00	9.62	
Total Xylenes*	<0.150	0.150	12/24/2014	ND	5.84	97.3	6.00	10.1	
Total BTEX	<0.300	0.300	12/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/26/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/23/2014	ND	183	91.4	200	0.346	
DRO >C10-C28	<10.0	10.0	12/23/2014	ND	204	102	200	13.7	
EXT DRO >C28-C35	<10.0	10.0	12/23/2014	ND					

Surrogate: 1-Chlorooctane 98.0 % 47.2-157

Surrogate: 1-Chlorooctadecane 96.7 % 52.1-176

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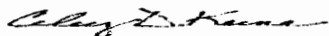
Celey D. Keene, Lab Director/Quality Manager

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

Cardinal Laboratories***=Accredited Analyte**

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Celey D. Keene, Lab Director/Quality Manager



(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

#54

September 19, 2014

NMOCD Environmental
ATTN: Brad Jones
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: JayDan Landfarm
New Background

Mr. Jones:

As you directed, find attached a new "Background" sample for JayDan Landfarm. The sample was a composite taken from four unimpacted areas North, South, East and West of the landfarm, also within are photos of sample sites and GPS locations.

All sampling procedures were followed as approved.

Thanks,

A handwritten signature in black ink, appearing to read 'Danny Watson', with a long horizontal line extending to the right.

JayDan Landfarm
Danny Watson
Box 632
Lovington, NM 88260
575-631-3482

RECEIVED
2014 SEP 29 10 25 AM

August 31, 2014

GREG WATSON
JAY DAN LANDFARM
PO BOX 632
LOVINGTON, NM 88260

RE: JAY DAN LF (NM1-0045)

Enclosed are the results of analyses for samples received by the laboratory on 07/30/14 13:45.

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

Cardinal Laboratories is accredited 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)

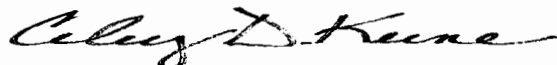
Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

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)

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

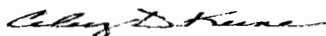
Analytical Results For:JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:Reported:
31-Aug-14 11:26

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG - 1	H402339-01	Soil	29-Jul-14 16:30	30-Jul-14 13:45

Cardinal Laboratories

*=**Accredited Analyte**

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:26

BG - 1
H402339-01 (Soil)

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

Cardinal Laboratories
Inorganic Compounds

Chloride	ND	16.0	mg/kg	4	4080710	AP	13-Aug-14	4500-Cl-B		
pH*	7.43	0.100	pH Units	1	4081203	AP	12-Aug-14	9045		
Phenols	ND	5.2	mg/kg dry wt.	1	4083102	CK	15-Aug-14	EPA9065		SUB-AL
Sulfate	50.6	40.0	mg/kg	4	4081306	AP	13-Aug-14	375.4		

Organic Compounds

TPH 418.1	ND	100	mg/kg	10	4080611	CK	18-Aug-14	418.1		
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Radionuclides
SUB-RS

Radium-226	ND	0.40	pCi/gram	1	4083103	CK	14-Aug-14	GammaRay HPGE		
Radium-228	ND	1.0	pCi/gram	1	4083103	CK	14-Aug-14	GammaRay HPGE		
Total Radium	ND	1.0	pCi/gram	1	4083103	CK	14-Aug-14	GammaRay HPGE		

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND	10.0	mg/kg	1	4073105	MS	02-Aug-14	8015B		
DRO >C10-C28	ND	10.0	mg/kg	1	4073105	MS	02-Aug-14	8015B		
Surrogate: 1-Chlorooctane		90.3 %	65.2-140		4073105	MS	02-Aug-14	8015B		
Surrogate: 1-Chlorooctadecane		92.3 %	63.6-154		4073105	MS	02-Aug-14	8015B		

PCBs BY GC/ECD
SUB-SS

PCB 1016	ND	10.0	ug/kg	1	4083101	CK	07-Aug-14	8082		
PCB 1221	ND	10.0	ug/kg	1	4083101	CK	07-Aug-14	8082		
PCB 1232	ND	10.0	ug/kg	1	4083101	CK	07-Aug-14	8082		
PCB 1242	ND	10.0	ug/kg	1	4083101	CK	07-Aug-14	8082		
PCB 1248	ND	10.0	ug/kg	1	4083101	CK	07-Aug-14	8082		
PCB 1254	ND	10.0	ug/kg	1	4083101	CK	07-Aug-14	8082		
PCB 1260	ND	10.0	ug/kg	1	4083101	CK	07-Aug-14	8082		
Surrogate: Tetrachloro-meta-xylene		111 %	35-140		4083101	CK	07-Aug-14	8082		

Cardinal Laboratories
***=Accredited Analyte**

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:26

BG - 1
H402339-01 (Soil)

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

Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Methylene chloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Chloroform*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Carbon tetrachloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,1-Trichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Benzene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Trichloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Toluene*	0.0819		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Tetrachloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2-Trichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dibromoethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Ethylbenzene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
m-p Xylenes*	ND		0.100	mg/kg	50	4080701	MS	07-Aug-14	8260	
o-Xylene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Total Xylenes*	ND		0.150	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2,2-Tetrachloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Naphthalene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	

Surrogate: Dibromofluoromethane		89.6 %	70-130	4080701	MS	07-Aug-14	8260
Surrogate: Toluene-d8		112 %	70-130	4080701	MS	07-Aug-14	8260
Surrogate: 4-Bromofluorobenzene		96.9 %	70-130	4080701	MS	07-Aug-14	8260

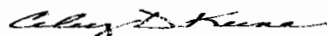
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	4080102	MS	05-Aug-14	8270C
2-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	MS	05-Aug-14	8270C
1-Methylnaphthalene	ND	0.040	mg/kg	40	4080102	MS	05-Aug-14	8270C
Acenaphthylene	ND	0.040	mg/kg	40	4080102	MS	05-Aug-14	8270C

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:26

BG - 1
H402339-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Acenaphthene	ND	0.040	mg/kg	40	4080102	MS	05-Aug-14	8270C	
Fluorene	ND	0.040	mg/kg	40	4080102	MS	05-Aug-14	8270C	
Phenanthrene	ND	0.040	mg/kg	40	4080102	MS	05-Aug-14	8270C	
Anthracene	ND	0.040	mg/kg	40	4080102	MS	05-Aug-14	8270C	
Carbazole	ND	0.040	mg/kg	40	4080102	MS	05-Aug-14	8270C	
Fluoranthene	ND	0.040	mg/kg	40	4080102	MS	05-Aug-14	8270C	
Pyrene	ND	0.040	mg/kg	40	4080102	MS	05-Aug-14	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	4080102	MS	05-Aug-14	8270C	
Chrysene	ND	0.040	mg/kg	40	4080102	MS	05-Aug-14	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	4080102	MS	05-Aug-14	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	4080102	MS	05-Aug-14	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	4080102	MS	05-Aug-14	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	4080102	MS	05-Aug-14	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	4080102	MS	05-Aug-14	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	4080102	MS	05-Aug-14	8270C	
Surrogate: Nitrobenzene-d5		85.8 %	16.1-91.8		4080102	MS	05-Aug-14	8270C	
Surrogate: 2-Fluorobiphenyl		86.8 %	27.2-92.9		4080102	MS	05-Aug-14	8270C	
Surrogate: Terphenyl-d14		101 %	21.3-96.1		4080102	MS	05-Aug-14	8270C	S-BN

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND	1.00	mg/kg dry	100	B408119	KLJ	13-Aug-14	EPA9012 B	H3
% Dry Solids	94.8		%	1	B408030	LLG	07-Aug-14	EPA160.3	

Soluble (DI Water Extraction)

Fluoride	2.84	0.800	mg/kg dry	4	B408235	ABP	26-Aug-14	4500-F- C	
Nitrate/Nitrite as N	6.27	0.200	mg/kg dry	10	B408046	KLJ	06-Aug-14	EPA353.2	
Nitrite as N	ND	0.200	mg/kg dry	10	B408048	KLJ	06-Aug-14	EPA353.2	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:26

BG - 1
H402339-01 (Soil)

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

Barium	122	1.00	mg/kg dry	100	B408040	JGS	06-Aug-14	EPA6010 B
Iron	10100	5.00	mg/kg dry	100	B408040	JGS	06-Aug-14	EPA6010 B
Zinc	36.3	5.00	mg/kg dry	100	B408040	JGS	06-Aug-14	EPA6010 B

Total Metals by ICPMS

Arsenic	2.83	0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Cadmium	0.753	0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Chromium	9.15	1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Copper	6.80	0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Lead	7.81	0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Manganese	195	0.500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Selenium	ND	1.00	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Silver	ND	0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A
Uranium	0.474	0.100	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A

Total Mercury by CVAA

Mercury	ND	0.105	mg/kg dry	500	B408163	JGS	20-Aug-14	EPA7471
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:26

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4080710 - 1:4 DI Water
Blank (4080710-BLK1)

Prepared & Analyzed: 07-Aug-14

Chloride ND 16.0 mg/kg

LCS (4080710-BS1)

Prepared & Analyzed: 07-Aug-14

Chloride 400 16.0 mg/kg 400 100 80-120

LCS Dup (4080710-BSD1)

Prepared & Analyzed: 07-Aug-14

Chloride 400 16.0 mg/kg 400 100 80-120 0.00 20

Batch 4081203 - NO PREP
LCS (4081203-BS1)

Prepared & Analyzed: 12-Aug-14

pH 7.15 pH Units 7.00 102 90-110

Duplicate (4081203-DUP1)

Source: H402339-01

Prepared & Analyzed: 12-Aug-14

pH 7.45 0.100 pH Units 7.43 0.269 20

Batch 4081306 - General Prep - Wet Chem
Blank (4081306-BLK1)

Prepared & Analyzed: 13-Aug-14

Sulfate ND 10.0 mg/kg

LCS (4081306-BS1)

Prepared & Analyzed: 13-Aug-14

Sulfate 16.1 10.0 mg/kg 20.0 80.7 80-120

LCS Dup (4081306-BSD1)

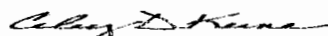
Prepared & Analyzed: 13-Aug-14

Sulfate 16.3 10.0 mg/kg 20.0 81.6 80-120 1.11 20

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 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:26

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4083102 - General Prep									
Blank (4083102-BLK1)				Prepared & Analyzed: 15-Aug-14					
Phenols	ND	0.5	mg/kg dry wt.						
LCS (4083102-BS1)				Prepared & Analyzed: 15-Aug-14					
Phenols	0.5		mg/kg	0.400		123	70-130		
Matrix Spike (4083102-MS1)				Source: H402339-01 Prepared & Analyzed: 15-Aug-14					
Phenols	0.4		mg/kg	0.400	0.0	89.0	70-130		
Matrix Spike Dup (4083102-MSD1)				Source: H402339-01 Prepared & Analyzed: 15-Aug-14					
Phenols	0.4		mg/kg	0.400	0.0	95.8	70-130	7.31	20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:26

Organic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4080611 - Solvent Extraction										
Blank (4080611-BLK1)				Prepared & Analyzed: 18-Aug-14						
TPH 418.1	ND	100	mg/kg							
LCS (4080611-BS1)				Prepared & Analyzed: 18-Aug-14						
TPH 418.1	5340	100	mg/kg	5000		107	80-120			
LCS Dup (4080611-BSD1)				Prepared & Analyzed: 18-Aug-14						
TPH 418.1	5230	100	mg/kg	5000		105	80-120	2.06	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:26

Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4073105 - General Prep - Organics
Blank (4073105-BLK1)

Prepared: 31-Jul-14 Analyzed: 01-Aug-14

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C35	ND	10.0	mg/kg						
Total TPH C6-C28	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	48.6		mg/kg	50.0		97.2	65.2-140		
Surrogate: 1-Chlorooctadecane	50.8		mg/kg	50.0		102	63.6-154		

LCS (4073105-BS1)

Prepared: 31-Jul-14 Analyzed: 01-Aug-14

GRO C6-C10	179	10.0	mg/kg	200		89.3	66.4-124		
DRO >C10-C28	181	10.0	mg/kg	200		90.3	61.6-132		
Total TPH C6-C28	359	10.0	mg/kg	400		89.8	69.7-122		
Surrogate: 1-Chlorooctane	43.7		mg/kg	50.0		87.5	65.2-140		
Surrogate: 1-Chlorooctadecane	44.7		mg/kg	50.0		89.4	63.6-154		

LCS Dup (4073105-BSD1)

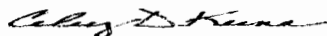
Prepared: 31-Jul-14 Analyzed: 01-Aug-14

GRO C6-C10	161	10.0	mg/kg	200		80.7	66.4-124	10.2	23.4
DRO >C10-C28	162	10.0	mg/kg	200		81.0	61.6-132	10.8	23.1
Total TPH C6-C28	323	10.0	mg/kg	400		80.9	69.7-122	10.5	20.6
Surrogate: 1-Chlorooctane	42.1		mg/kg	50.0		84.3	65.2-140		
Surrogate: 1-Chlorooctadecane	42.7		mg/kg	50.0		85.5	63.6-154		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:26

PCBs BY GC/ECD - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4083101 - General Prep
Blank (4083101-BLK1)

Prepared: 31-Jul-14 Analyzed: 07-Aug-14

PCB 1016	ND	10.0	ug/kg						
PCB 1221	ND	10.0	ug/kg						
PCB 1232	ND	10.0	ug/kg						
PCB 1242	ND	10.0	ug/kg						
PCB 1248	ND	10.0	ug/kg						
PCB 1254	ND	10.0	ug/kg						
PCB 1260	ND	10.0	ug/kg						

Surrogate: Tetrachloro-meta-xylene 3.50 ug/L 10.0 35.0 35-140

LCS (4083101-BS1)

Prepared: 31-Jul-14 Analyzed: 07-Aug-14

PCB 1016	66.0		ug/L	100		66.0	40-130		
PCB 1260	69.7		ug/L	100		69.7	40-130		

Surrogate: Tetrachloro-meta-xylene 7.15 ug/L 10.0 71.5 35-140

Matrix Spike (4083101-MS1)

Source: H402339-01

Prepared: 31-Jul-14 Analyzed: 07-Aug-14

PCB 1016	54.6		ug/L	100	ND	54.6	40-130		
PCB 1260	98.9		ug/L	100	ND	98.9	40-130		

Surrogate: Tetrachloro-meta-xylene 8.21 ug/L 10.0 82.1 35-140

Matrix Spike Dup (4083101-MSD1)

Source: H402339-01

Prepared: 31-Jul-14 Analyzed: 07-Aug-14

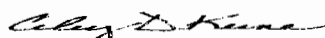
PCB 1016	55.0		ug/L	100	ND	55.0	40-130	0.730	30
PCB 1260	94.2		ug/L	100	ND	94.2	40-130	4.87	30

Surrogate: Tetrachloro-meta-xylene 9.26 ug/L 10.0 92.6 35-140

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4080701 - Volatiles
Blank (4080701-BLK1)

Prepared & Analyzed: 07-Aug-14

Vinyl chloride	ND	0.0500	mg/kg							
1,1-Dichloroethene	ND	0.0500	mg/kg							
Methylene chloride	ND	0.0500	mg/kg							
1,1-Dichloroethane	ND	0.0500	mg/kg							
Chloroform	ND	0.0500	mg/kg							
Carbon tetrachloride	ND	0.0500	mg/kg							
1,1,1-Trichloroethane	ND	0.0500	mg/kg							
Benzene	ND	0.0500	mg/kg							
1,2-Dichloroethane	ND	0.0500	mg/kg							
Trichloroethene	ND	0.0500	mg/kg							
Toluene	ND	0.0500	mg/kg							
Tetrachloroethene	ND	0.0500	mg/kg							
1,1,2-Trichloroethane	ND	0.0500	mg/kg							
1,2-Dibromoethane	ND	0.0500	mg/kg							
Ethylbenzene	ND	0.0500	mg/kg							
m-p Xylenes	ND	0.100	mg/kg							
o-Xylene	ND	0.0500	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg							
Naphthalene	ND	0.0500	mg/kg							
Surrogate: Dibromofluoromethane	0.434		mg/kg	0.500		86.9	70-130			
Surrogate: Toluene-d8	0.556		mg/kg	0.500		111	70-130			
Surrogate: 4-Bromofluorobenzene	0.475		mg/kg	0.500		95.1	70-130			

LCS (4080701-BS1)

Prepared & Analyzed: 07-Aug-14

Vinyl chloride	1.24	0.0500	mg/kg				70-130			
1,1-Dichloroethene	1.70	0.0500	mg/kg	2.00		85.0	70-130			
Methylene chloride	1.28	0.0500	mg/kg	2.00		64.0	70-130			BS2
1,1-Dichloroethane	1.47	0.0500	mg/kg	2.00		73.5	70-130			
Chloroform	1.42	0.0500	mg/kg	2.00		70.8	70-130			
Carbon tetrachloride	1.68	0.0500	mg/kg	2.00		84.2	70-130			
1,1,1-Trichloroethane	1.55	0.0500	mg/kg	2.00		77.3	70-130			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260

Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:

Reported:
31-Aug-14 11:26

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4080701 - Volatiles
LCS (4080701-BS1)

Prepared & Analyzed: 07-Aug-14

Benzene	1.56	0.0500	mg/kg	2.00		77.8	70-130		
1,2-Dichloroethane	1.22	0.0500	mg/kg	2.00		60.9	70-130		BS2
Trichloroethene	1.55	0.0500	mg/kg	2.00		77.6	70-130		
Toluene	1.70	0.0500	mg/kg	2.00		84.9	70-130		
Tetrachloroethene	2.26	0.0500	mg/kg	2.00		113	70-130		
1,1,2-Trichloroethane	1.74	0.0500	mg/kg	2.00		86.8	70-130		
1,2-Dibromoethane	1.81	0.0500	mg/kg	2.00		90.7	70-130		
Ethylbenzene	1.66	0.0500	mg/kg	2.00		82.8	70-130		
m-p Xylenes	3.81	0.100	mg/kg				70-130		
o-Xylene	1.81	0.0500	mg/kg	2.00		90.4	70-130		
Total Xylenes	5.62	0.150	mg/kg	6.00		93.7	70-130		
1,1,2,2-Tetrachloroethane	1.76	0.0500	mg/kg	2.00		87.9	70-130		
Naphthalene	1.82	0.0500	mg/kg	2.00		91.0	70-130		
Surrogate: Dibromofluoromethane	0.454		mg/kg	0.500		90.8	70-130		
Surrogate: Toluene-d8	0.531		mg/kg	0.500		106	70-130		
Surrogate: 4-Bromofluorobenzene	0.496		mg/kg	0.500		99.1	70-130		

LCS Dup (4080701-BS1)


Prepared & Analyzed: 07-Aug-14

Vinyl chloride	1.32	0.0500	mg/kg				70-130	5.87	20	
1,1-Dichloroethene	1.87	0.0500	mg/kg	2.00		93.5	70-130	9.55	20	
Methylene chloride	1.41	0.0500	mg/kg	2.00		70.3	70-130	9.34	20	
1,1-Dichloroethane	1.65	0.0500	mg/kg	2.00		82.4	70-130	11.3	20	
Chloroform	1.58	0.0500	mg/kg	2.00		79.1	70-130	11.0	20	
Carbon tetrachloride	1.87	0.0500	mg/kg	2.00		93.3	70-130	10.2	20	
1,1,1-Trichloroethane	1.69	0.0500	mg/kg	2.00		84.4	70-130	8.76	20	
Benzene	1.72	0.0500	mg/kg	2.00		86.1	70-130	10.2	20	
1,2-Dichloroethane	1.36	0.0500	mg/kg	2.00		67.8	70-130	10.7	20	BS2
Trichloroethene	1.74	0.0500	mg/kg	2.00		86.9	70-130	11.3	20	
Toluene	1.88	0.0500	mg/kg	2.00		94.2	70-130	10.4	20	
Tetrachloroethene	2.75	0.0500	mg/kg	2.00		137	70-130	19.4	20	BS1
1,1,2-Trichloroethane	1.95	0.0500	mg/kg	2.00		97.4	70-130	11.5	20	
1,2-Dibromoethane	2.00	0.0500	mg/kg	2.00		99.8	70-130	9.57	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:26

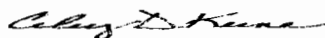
Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4080701 - Volatiles									
LCS Dup (4080701-BSD1)				Prepared & Analyzed: 07-Aug-14					
Ethylbenzene	1.84	0.0500	mg/kg	2.00		92.2	70-130	10.7	20
m-p Xylenes	4.28	0.100	mg/kg				70-130	11.5	20
o-Xylene	2.05	0.0500	mg/kg	2.00		103	70-130	12.6	20
Total Xylenes	6.33	0.150	mg/kg	6.00		105	70-130	11.9	20
1,1,2,2-Tetrachloroethane	1.85	0.0500	mg/kg	2.00		92.4	70-130	4.94	20
Naphthalene	1.96	0.0500	mg/kg	2.00		97.8	70-130	7.18	20
Surrogate: Dibromofluoromethane	0.456		mg/kg	0.500		91.3	70-130		
Surrogate: Toluene-d8	0.535		mg/kg	0.500		107	70-130		
Surrogate: 4-Bromofluorobenzene	0.509		mg/kg	0.500		102	70-130		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:26

Semivolatile Organic Compounds by GCMS - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4080102 - SW846-3510
Blank (4080102-BLK1)

Prepared: 01-Aug-14 Analyzed: 05-Aug-14

Naphthalene	ND	0.040	mg/kg						
2-Methylnaphthalene	ND	0.040	mg/kg						
1-Methylnaphthalene	ND	0.040	mg/kg						
Acenaphthylene	ND	0.040	mg/kg						
Acenaphthene	ND	0.040	mg/kg						
Fluorene	ND	0.040	mg/kg						
Phenanthrene	ND	0.040	mg/kg						
Anthracene	ND	0.040	mg/kg						
Carbazole	ND	0.040	mg/kg						
Fluoranthene	ND	0.040	mg/kg						
Pyrene	ND	0.040	mg/kg						
Benzo[a]anthracene	ND	0.040	mg/kg						
Chrysene	ND	0.040	mg/kg						
Benzo[b]fluoranthene	ND	0.040	mg/kg						
Benzo[k]fluoranthene	ND	0.040	mg/kg						
Benzo[a]pyrene	ND	0.040	mg/kg						
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg						
Dibenz[a,h]anthracene	ND	0.040	mg/kg						
Benzo[g,h,i]perylene	ND	0.040	mg/kg						
Surrogate: Nitrobenzene-d5	1.72		mg/kg	2.00		85.9	16.1-91.8		
Surrogate: 2-Fluorobiphenyl	1.78		mg/kg	2.00		89.2	27.2-92.9		
Surrogate: Terphenyl-d14	2.09		mg/kg	2.00		105	21.3-96.1		

LCS (4080102-BS1)

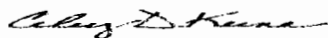
Prepared: 01-Aug-14 Analyzed: 05-Aug-14

Naphthalene	0.419	0.040	mg/kg	0.400		105	5.46-157		
2-Methylnaphthalene	0.459	0.040	mg/kg	0.400		115	16.1-146		
Acenaphthylene	0.421	0.040	mg/kg	0.400		105	21.6-144		
Acenaphthene	0.426	0.040	mg/kg	0.400		107	27-143		
Fluorene	0.438	0.040	mg/kg	0.400		109	30.9-138		
Phenanthrene	0.440	0.040	mg/kg	0.400		110	38.6-149		
Anthracene	0.403	0.040	mg/kg	0.400		101	36.1-149		
Carbazole	0.439	0.040	mg/kg	0.400		110	29.8-144		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:26

Semivolatile Organic Compounds by GCMS - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4080102 - SW846-3510

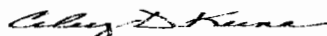
LCS (4080102-BS1)				Prepared: 01-Aug-14 Analyzed: 05-Aug-14						
Fluoranthene	0.425	0.040	mg/kg	0.400		106	34.6-148			
Pyrene	0.436	0.040	mg/kg	0.400		109	24.8-154			
Benzo[a]anthracene	0.438	0.040	mg/kg	0.400		110	0-179			
Chrysene	0.422	0.040	mg/kg	0.400		106	35.1-150			
Benzo[b]fluoranthene	0.393	0.040	mg/kg	0.400		98.2	17.6-158			
Benzo[k]fluoranthene	0.470	0.040	mg/kg	0.400		117	10.6-169			
Benzo[a]pyrene	0.436	0.040	mg/kg	0.400		109	2.25-166			
Indeno[1,2,3-cd]pyrene	0.397	0.040	mg/kg	0.400		99.3	0-181			
Dibenz[a,h]anthracene	0.427	0.040	mg/kg	0.400		107	2.49-177			
Benzo[g,h,i]perylene	0.467	0.040	mg/kg	0.400		117	0-173			
Surrogate: Nitrobenzene-d5	1.84		mg/kg	2.00		91.8	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	1.80		mg/kg	2.00		89.9	27.2-92.9			
Surrogate: Terphenyl-d4	2.09		mg/kg	2.00		104	21.3-96.1			

LCS Dup (4080102-BSD1)				Prepared: 01-Aug-14 Analyzed: 05-Aug-14						
Naphthalene	0.412	0.040	mg/kg	0.400		103	5.46-157	1.63	6.7	
2-Methylnaphthalene	0.448	0.040	mg/kg	0.400		112	16.1-146	2.36	8.99	
Acenaphthylene	0.410	0.040	mg/kg	0.400		103	21.6-144	2.61	14.6	
Acenaphthene	0.421	0.040	mg/kg	0.400		105	27-143	1.34	6.99	
Fluorene	0.427	0.040	mg/kg	0.400		107	30.9-138	2.46	13.9	
Phenanthrene	0.414	0.040	mg/kg	0.400		103	38.6-149	6.14	14.6	
Anthracene	0.421	0.040	mg/kg	0.400		105	36.1-149	4.39	18.5	
Carbazole	0.436	0.040	mg/kg	0.400		109	29.8-144	0.743	23.4	
Fluoranthene	0.421	0.040	mg/kg	0.400		105	34.6-148	0.931	19.7	
Pyrene	0.434	0.040	mg/kg	0.400		108	24.8-154	0.488	23	
Benzo[a]anthracene	0.441	0.040	mg/kg	0.400		110	0-179	0.564	32.5	
Chrysene	0.427	0.040	mg/kg	0.400		107	35.1-150	1.17	19.4	
Benzo[b]fluoranthene	0.430	0.040	mg/kg	0.400		107	17.6-158	9.04	31.4	
Benzo[k]fluoranthene	0.412	0.040	mg/kg	0.400		103	10.6-169	13.2	44.6	
Benzo[a]pyrene	0.432	0.040	mg/kg	0.400		108	2.25-166	0.895	60.5	
Indeno[1,2,3-cd]pyrene	0.403	0.040	mg/kg	0.400		101	0-181	1.41	77	
Dibenz[a,h]anthracene	0.430	0.040	mg/kg	0.400		108	2.49-177	0.849	63.3	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:Reported:
31-Aug-14 11:26**Semivolatile Organic Compounds by GCMS - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4080102 - SW846-3510**LCS Dup (4080102-BSD1)**


Prepared: 01-Aug-14 Analyzed: 05-Aug-14

Benzo[g,h,i]perylene	0.469	0.040	mg/kg	0.400		117	0-173	0.288	77.4
Surrogate: Nitrobenzene-d5	1.75		mg/kg	2.00		87.7	16.1-91.8		
Surrogate: 2-Fluorobiphenyl	1.79		mg/kg	2.00		89.6	27.2-92.9		
Surrogate: Terphenyl-d14	2.09		mg/kg	2.00		105	21.3-96.1		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:Reported:
31-Aug-14 11:26**General Chemistry - Quality Control****Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B408119 - General Prep - Wet Chem**Blank (B408119-BLK1)**

Prepared & Analyzed: 13-Aug-14

Cyanide, Total ND 0.0100 mg/kg wet

LCS (B408119-BS1)

Prepared & Analyzed: 13-Aug-14

Cyanide, Total 0.0466 0.0100 mg/kg wet 0.0500 93.2 80-120

LCS Dup (B408119-BSD1)

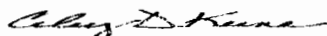
Prepared & Analyzed: 13-Aug-14

Cyanide, Total 0.0478 0.0100 mg/kg wet 0.0500 95.6 80-120 2.54 20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:26

Soluble (DI Water Extraction) - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B408046 - General Prep - Wet Chem
Blank (B408046-BLK1)

Prepared & Analyzed: 06-Aug-14

Nitrate/Nitrite as N ND 0.020 mg/kg wet

LCS (B408046-BS1)

Prepared & Analyzed: 06-Aug-14

Nitrate/Nitrite as N 1.07 0.020 mg/kg wet 1.00 107 80-120

LCS Dup (B408046-BSD1)

Prepared & Analyzed: 06-Aug-14

Nitrate/Nitrite as N 1.06 0.020 mg/kg wet 1.00 106 80-120 0.939 20

Batch B408048 - General Prep - Wet Chem
Blank (B408048-BLK1)

Prepared & Analyzed: 06-Aug-14

Nitrite as N ND 0.020 mg/kg wet

LCS (B408048-BS1)

Prepared & Analyzed: 06-Aug-14

Nitrite as N 0.108 0.020 mg/kg wet 0.100 108 80-120

LCS Dup (B408048-BSD1)

Prepared & Analyzed: 06-Aug-14

Nitrite as N 0.112 0.020 mg/kg wet 0.100 112 80-120 3.64 20

Batch B408235 - General Prep - Wet Chem
Blank (B408235-BLK1)

Prepared & Analyzed: 26-Aug-14

Fluoride ND 0.200 mg/kg wet

LCS (B408235-BS1)

Prepared & Analyzed: 26-Aug-14

Fluoride 1.06 0.200 mg/kg wet 1.00 106 85-115

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:JAY DAN LANDFARM
PO BOX 632
LOVINGTON NM, 88260Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF
Project Manager: GREG WATSON
Fax To:Reported:
31-Aug-14 11:26**Soluble (DI Water Extraction) - Quality Control****Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	--------------	----------------	------------	--------------	-------

Batch B408235 - General Prep - Wet Chem**LCS Dup (B408235-BSD1)****Prepared & Analyzed: 26-Aug-14**

Fluoride	1.06	0.200	mg/kg wet	1.00		106	85-115	0.189	20	
----------	------	-------	-----------	------	--	-----	--------	-------	----	--

Cardinal Laboratories

*=**Accredited Analyte**

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:26


Total Metals by ICP - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B408040 - EPA 3050										
Blank (B408040-BLK1)				Prepared & Analyzed: 06-Aug-14						
Barium	ND	0.010	mg/kg dry							
Iron	0.081	0.050	mg/kg dry							B1
Zinc	0.068	0.050	mg/kg dry							B1
LCS (B408040-BS1)				Prepared & Analyzed: 06-Aug-14						
Iron	3.66	0.050	mg/kg dry	4.00		91.4	85-115			
Zinc	1.82	0.050	mg/kg dry	2.00		90.9	85-115			
Barium	1.79	0.010	mg/kg dry	2.00		89.4	85-115			
LCS Dup (B408040-BSD1)				Prepared & Analyzed: 06-Aug-14						
Barium	1.79	0.010	mg/kg dry	2.00		89.3	85-115	0.0708	20	
Zinc	1.81	0.050	mg/kg dry	2.00		90.4	85-115	0.575	20	
Iron	3.66	0.050	mg/kg dry	4.00		91.6	85-115	0.142	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:26

Total Metals by ICPMS - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B408169 - EPA 3050M
Blank (B408169-BLK1)

Prepared & Analyzed: 21-Aug-14

Uranium	ND	0.0001	mg/kg dry							
Arsenic	ND	0.0005	mg/kg dry							
Silver	ND	0.0001	mg/kg dry							
Chromium	ND	0.0010	mg/kg dry							
Cadmium	ND	0.0001	mg/kg dry							
Copper	0.0004	0.0001	mg/kg dry							B1
Manganese	0.0016	0.0005	mg/kg dry							B1
Selenium	ND	0.0010	mg/kg dry							
Lead	0.0008	0.0005	mg/kg dry							B1

LCS (B408169-BS1)

Prepared & Analyzed: 21-Aug-14

Manganese	0.534	0.0005	mg/kg dry	0.500		107	85-115			
Lead	0.519	0.0005	mg/kg dry	0.500		104	85-115			
Copper	0.491	0.0001	mg/kg dry	0.500		98.1	85-115			
Uranium	0.550	0.0001	mg/kg dry	0.500		110	85-115			
Cadmium	0.533	0.0001	mg/kg dry	0.500		107	85-115			
Chromium	0.481	0.0010	mg/kg dry	0.500		96.2	85-115			
Silver	0.473	0.0001	mg/kg dry	0.500		94.7	85-115			
Arsenic	0.552	0.0005	mg/kg dry	0.500		110	85-115			
Selenium	2.80	0.0010	mg/kg dry	2.50		112	85-115			

LCS Dup (B408169-BSD1)

Prepared & Analyzed: 21-Aug-14

Arsenic	0.513	0.0005	mg/kg dry	0.500		103	85-115	7.30	20	
Uranium	0.560	0.0001	mg/kg dry	0.500		112	85-115	1.82	20	
Chromium	0.484	0.0010	mg/kg dry	0.500		96.8	85-115	0.608	20	
Silver	0.453	0.0001	mg/kg dry	0.500		90.6	85-115	4.43	20	
Manganese	0.530	0.0005	mg/kg dry	0.500		106	85-115	0.879	20	
Lead	0.509	0.0005	mg/kg dry	0.500		102	85-115	1.88	20	
Copper	0.494	0.0001	mg/kg dry	0.500		98.7	85-115	0.578	20	
Cadmium	0.516	0.0001	mg/kg dry	0.500		103	85-115	3.21	20	
Selenium	2.64	0.0010	mg/kg dry	2.50		106	85-115	5.96	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 JAY DAN LANDFARM
 PO BOX 632
 LOVINGTON NM, 88260

 Project: JAY DAN LF (NM1-0045)
 Project Number: JAY DAN LF
 Project Manager: GREG WATSON
 Fax To:

 Reported:
 31-Aug-14 11:26


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 B408163 - EPA 7471										
Blank (B408163-BLK1)				Prepared & Analyzed: 20-Aug-14						
Mercury	ND	0.0002	mg/kg wet							
LCS (B408163-BS1)				Prepared & Analyzed: 20-Aug-14						
Mercury	0.0019	0.0002	mg/kg wet	0.00200		93.6	85-115			
LCS Dup (B408163-BSD1)				Prepared & Analyzed: 20-Aug-14						
Mercury	0.0019	0.0002	mg/kg wet	0.00200		96.1	85-115	2.69	20	

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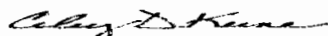
Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

SUB-SS	Analysis subcontracted to SunStar Laboratories, Inc.
SUB-RS	Analysis subcontracted to Radiation Safety Engineering, Inc.
SUB-AL	Analysis subcontracted to Anatek Labs, Inc.
S-BN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
H3	Initial analysis performed within hold-time but not reportable due to QC failure or other issue. Sample was subsequently re-analyzed and similar result obtained, but was past hold time specified by method.
BS2	Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
B1	Target analyte detected in method blank at or above method reporting limit. Sample concentration found to be 10 times above the concentration found in the method blank or less than the reporting limit.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1697



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

3 of 3

Company Name: <u>Cardinal Laboratories</u>		P.O. #:	
Project Manager: <u>Donna Lee</u>		Company:	
Address: <u>Box 1232</u>		Attn: <u>Donna Lee</u>	
City: <u>Las Vegas</u> State: <u>NM</u> Zip: <u>87200</u>		Address: <u>Donna Lee</u>	
Phone #: <u>505-3482</u> Fax #: <u>505-3482</u>		City: <u>Las Vegas</u> State: <u>NM</u> Zip: <u>87200</u>	
Project #: <u>Donna Lee</u> Project Owner: <u>Donna Lee</u>		Phone #: <u>505-3482</u> Fax #: <u>505-3482</u>	
Project Location: <u>E. 35.15.35</u>		Sample Name: <u>Donna Lee</u>	
Sampler Name: <u>Donna Lee</u>		P.O. #:	
FOR LAB USE ONLY		PRESERV	
Lab I.D.		Sample I.D.	
BG-1		7/29 4:30	
(G)RAB OR (C)OMPO		# CONTAINERS	
GROUNDWATER		WASTEWATER	
SOIL		OIL	
SLUDGE		OTHER :	
ACID/BASE:		ICE / COOL	
OTHER :		DATE	
TIME		ANALYSIS REQUEST	
Benzene - a - pyrene		Copper	
Iron		Manganese	
Sulfate		Zinc	
Ra 226 & Ra 228		Uranium	
F. No 3		Phenols	
PH		Carbon Tetrachloride	

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Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

Delivered By: (Circle One) UPS - Bus - Other Sample Condition Cool ☐ Intact ☐ Yes ☐ No ☐ Yes ☐ No

CHECKED BY: (Initials) _____

REMARKS: AKB 20.6.2.13
2108 0020

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JAY DAN LANDFARM, LLC
NO DISPOSAL
WITHOUT PERMISSION
CONTACT: 631-3482

Section 32, Township 15S, Range 35E
NMPM, Lea County, New Mexico

Permit NM 01-0045

NO TRESPASSING



East

GPS

32° 58' 44" N
103° 25' 51" W



South
 $32^{\circ} 58' 41''$ N
 $103^{\circ} 26' 3''$ W



North
 $32^{\circ} 58' 54''$ N
 $103^{\circ} 26' 05''$ W



west
32° 58' 45" N
103° 26' 18" W

JAY DAN LANDFARM

(NM-01-0045)

MAY 2014^t

May 27, 2014

RECEIVED OGD

2014 JUN -4 P 3: 08

NMOCD Environmental
ATTN: Brad Jones
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: Jay Dan Landfarm (NM-01-0045)
Bi-Annual Sampling

Mr. Jones:

Find within the sampling for Jay Dan Landfarm. The sampling covers the treatment and Vadose as required. The Vadose sampling was only conducted on cells 1, 2 and 3. I am getting samples for cell 4, doing the five year monitoring, this will be forwarded when received.

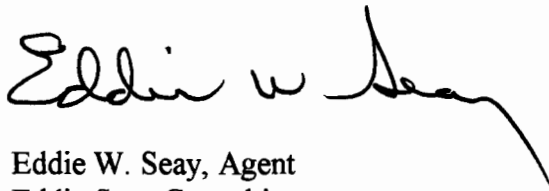
I sent you the report earlier on the treatment zone.

I compared the Vadose sampling to the "background" test as required, and found no problems.

Find within copies of analytical, copy of background test, and map of facility showing the approximate sampling point.

Should you need anything further, please let me know.

Thanks for your help.



Eddie W. Seay, Agent
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242
575-392-2236
seay04@leaco.net

cc: Jay Dan Landfarm (Danny Watson)

May 20, 2014

Eddie Seay

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

RE: JAY DAN LF (NM.01.0045)

Enclosed are the results of analyses for samples received by the laboratory on 05/01/14 9:20.

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

Cardinal Laboratories is accredited 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)

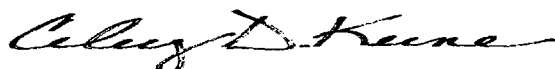
Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

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)

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

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
20-May-14 16:55

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL-1T	H401321-01	Soil	30-Apr-14 07:30	01-May-14 09:20
CELL-2T	H401321-02	Soil	30-Apr-14 07:50	01-May-14 09:20
CELL-3T	H401321-03	Soil	30-Apr-14 08:10	01-May-14 09:20
CELL-4T	H401321-04	Soil	30-Apr-14 08:35	01-May-14 09:20
CELL-1V	H401321-05	Soil	30-Apr-14 09:50	01-May-14 09:20
CELL-2V	H401321-06	Soil	30-Apr-14 11:10	01-May-14 09:20
CELL-3V	H401321-07	Soil	30-Apr-14 12:15	01-May-14 09:20
JD-WW #1	H401321-08	Water	30-Apr-14 13:30	01-May-14 09:20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949Reported:
20-May-14 16:55**CELL-1T**
H401321-01 (Soil)

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

Chloride	64.0		16.0	mg/kg	4	4050606	AP	08-May-14	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1	4050801	MS	08-May-14	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	4050801	MS	08-May-14	8015B	
Surrogate: 1-Chlorooctane			68.1 %	65.2-140		4050801	MS	08-May-14	8015B	
Surrogate: 1-Chlorooctadecane			71.7 %	63.6-154		4050801	MS	08-May-14	8015B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
20-May-14 16:55

CELL-2T
H401321-02 (Soil)

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

Chloride	2240		16.0	mg/kg	4	4050606	AP	08-May-14	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1	4050801	MS	08-May-14	8015B	
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DRO >C10-C28	64.6		10.0	mg/kg	1	4050801	MS	08-May-14	8015B	
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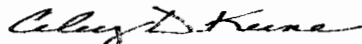
Surrogate: 1-Chlorooctane			80.4 %	65.2-140		4050801	MS	08-May-14	8015B	
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Surrogate: 1-Chlorooctadecane			96.9 %	63.6-154		4050801	MS	08-May-14	8015B	
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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949Reported:
20-May-14 16:55**CELL-3T**
H401321-03 (Soil)

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

Chloride	192	16.0	mg/kg	4	4050606	AP	08-May-14	4500-Cl-B
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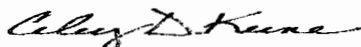
Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND	50.0	mg/kg	5	4050801	MS	08-May-14	8015B
DRO >C10-C28	257	50.0	mg/kg	5	4050801	MS	08-May-14	8015B
Surrogate: 1-Chlorooctane		86.2 %	65.2-140		4050801	MS	08-May-14	8015B
Surrogate: 1-Chlorooctadecane		135 %	63.6-154		4050801	MS	08-May-14	8015B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 20-May-14 16:55

CELL-4T
H401321-04 (Soil)

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

Chloride	736		16.0	mg/kg	4	4050802	AP	08-May-14	4500-Cl-B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1	4050801	MS	08-May-14	8015B
DRO >C10-C28	123		10.0	mg/kg	1	4050801	MS	08-May-14	8015B
Surrogate: 1-Chlorooctane			88.5 %	65.2-140		4050801	MS	08-May-14	8015B
Surrogate: 1-Chlorooctadecane			101 %	63.6-154		4050801	MS	08-May-14	8015B

Cardinal Laboratories

*=Accredited Analyte

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 Hobbs NM, 88242

 Project: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 20-May-14 16:55

CELL-1V
H401321-05 (Soil)

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

Alkalinity, Bicarbonate	332		20.0	mg/kg	4	4050710	AP	09-May-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4050710	AP	09-May-14	310.1	
Chloride	ND		16.0	mg/kg	4	4050802	AP	08-May-14	4500-Cl-B	
Conductivity*	1060		4.00	uS/cm	4	4050704	AP	07-May-14	120.1	
pH*	7.44		0.100	pH Units	1	4050609	AP	06-May-14	150.1	
Sulfate	270		100	mg/kg	10	4050808	AP	08-May-14	375.4	
Alkalinity, Total*	272		16.0	mg/kg	4	4050710	AP	09-May-14	310.1	

Organic Compounds

TPH 418.1	136		100	mg/kg	10	4050602	CK	07-May-14	418.1	
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Volatile Organic Compounds by EPA Method 8260B

Benzene*	ND		0.050	mg/kg	50	4050803	ms	08-May-14	8260B	
Toluene*	ND		0.050	mg/kg	50	4050803	ms	08-May-14	8260B	
Ethylbenzene*	ND		0.050	mg/kg	50	4050803	ms	08-May-14	8260B	
Total Xylenes*	ND		0.150	mg/kg	50	4050803	ms	08-May-14	8260B	
Total BTEX	ND		0.300	mg/kg	50	4050803	ms	08-May-14	8260B	
Surrogate: Dibromofluoromethane			97.7 %		61.3-142	4050803	ms	08-May-14	8260B	
Surrogate: Toluene-d8			104 %		71.3-129	4050803	ms	08-May-14	8260B	
Surrogate: 4-Bromofluorobenzene			99.2 %		65.7-141	4050803	ms	08-May-14	8260B	

Green Analytical Laboratories
General Chemistry

% Dry Solids	96.0			%	1	B405046	JGS	06-May-14	EPA160.3	
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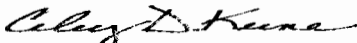
Total Metals by ICP

Barium	89.9		1.00	mg/kg dry	100	B405064	JGS	08-May-14	EPA6010 B	
Calcium	63700		1000	mg/kg dry	1000	B405064	JGS	08-May-14	EPA6010 B	
Iron	7850		5.00	mg/kg dry	100	B405064	JGS	08-May-14	EPA6010 B	

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Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 20-May-14 16:55

CELL-1V
H401321-05 (Soil)

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

Magnesium	2580	100	mg/kg dry	100	B405064	JGS	08-May-14	EPA6010 B
Potassium	1760	100	mg/kg dry	100	B405064	JGS	08-May-14	EPA6010 B
Sodium	ND	100	mg/kg dry	100	B405064	JGS	08-May-14	EPA6010 B
Zinc	28.7	5.00	mg/kg dry	100	B405064	JGS	08-May-14	EPA6010 B

Total Metals by ICPMS

Arsenic	2.72	0.500	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Cadmium	0.336	0.100	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Chromium	7.07	1.00	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Copper	3.74	0.100	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Lead	4.96	0.500	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Manganese	81.1	0.500	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Selenium	ND	1.00	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Silver	ND	0.100	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A

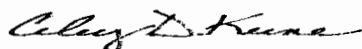
Total Mercury by CVAA

Mercury	ND	0.103	mg/kg dry	495	B405118	JGS	14-May-14	EPA7471	Q1
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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
20-May-14 16:55

CELL-2V
H401321-06 (Soil)

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

Alkalinity, Bicarbonate	351		20.0	mg/kg	4	4050710	AP	09-May-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4050710	AP	09-May-14	310.1	
Chloride	ND		16.0	mg/kg	4	4050802	AP	08-May-14	4500-Cl-B	
Conductivity*	642		4.00	uS/cm	4	4050704	AP	07-May-14	120.1	
pH*	7.69		0.100	pH Units	1	4050609	AP	06-May-14	150.1	
Sulfate	ND		100	mg/kg	10	4050808	AP	08-May-14	375.4	
Alkalinity, Total*	288		16.0	mg/kg	4	4050710	AP	09-May-14	310.1	

Organic Compounds

TPH 418.1	189		100	mg/kg	10	4050602	CK	07-May-14	418.1	
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Volatile Organic Compounds by EPA Method 8260B

Benzene*	ND		0.050	mg/kg	50	4050803	ms	08-May-14	8260B	
Toluene*	ND		0.050	mg/kg	50	4050803	ms	08-May-14	8260B	
Ethylbenzene*	ND		0.050	mg/kg	50	4050803	ms	08-May-14	8260B	
Total Xylenes*	ND		0.150	mg/kg	50	4050803	ms	08-May-14	8260B	
Total BTEX	ND		0.300	mg/kg	50	4050803	ms	08-May-14	8260B	
Surrogate: Dibromofluoromethane			94.0 %	61.3-142		4050803	ms	08-May-14	8260B	
Surrogate: Toluene-d8			103 %	71.3-129		4050803	ms	08-May-14	8260B	
Surrogate: 4-Bromofluorobenzene			103 %	65.7-141		4050803	ms	08-May-14	8260B	

Green Analytical Laboratories
General Chemistry

% Dry Solids	95.9			%	1	B405046	JGS	06-May-14	EPA160.3	
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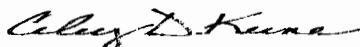
Total Metals by ICP

Barium	176		1.00	mg/kg dry	100	B405064	JGS	08-May-14	EPA6010 B	
Calcium	52500		1000	mg/kg dry	1000	B405064	JGS	08-May-14	EPA6010 B	
Iron	8120		5.00	mg/kg dry	100	B405064	JGS	08-May-14	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 20-May-14 16:55

CELL-2V
H401321-06 (Soil)

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

Magnesium	3120	100	mg/kg dry	100	B405064	JGS	08-May-14	EPA6010 B
Potassium	1940	100	mg/kg dry	100	B405064	JGS	08-May-14	EPA6010 B
Sodium	ND	100	mg/kg dry	100	B405064	JGS	08-May-14	EPA6010 B
Zinc	31.4	5.00	mg/kg dry	100	B405064	JGS	08-May-14	EPA6010 B

Total Metals by ICPMS

Arsenic	1.95	0.500	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Cadmium	0.221	0.100	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Chromium	5.01	1.00	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Copper	2.84	0.100	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Lead	3.62	0.500	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Manganese	61.3	0.500	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Selenium	ND	1.00	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Silver	ND	0.100	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A

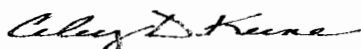
Total Mercury by CVAA

Mercury	ND	0.101	mg/kg dry	485	B405118	JGS	14-May-14	EPA7471	Q1
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Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
20-May-14 16:55

CELL-3V
H401321-07 (Soil)

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

Alkalinity, Bicarbonate	429		20.0	mg/kg	4	4050710	AP	09-May-14	310.1	
Alkalinity, Carbonate	ND		4.00	mg/kg	4	4050710	AP	09-May-14	310.1	
Chloride	ND		16.0	mg/kg	4	4050802	AP	08-May-14	4500-Cl-B	
Conductivity*	691		4.00	uS/cm	4	4050704	AP	07-May-14	120.1	
pH*	7.66		0.100	pH Units	1	4050609	AP	06-May-14	150.1	
Sulfate	196		100	mg/kg	10	4050808	AP	08-May-14	375.4	
Alkalinity, Total*	352		16.0	mg/kg	4	4050710	AP	09-May-14	310.1	

Organic Compounds

TPH 418.1	145		100	mg/kg	10	4050602	CK	07-May-14	418.1	
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Volatile Organic Compounds by EPA Method 8260B

Benzene*	ND		0.050	mg/kg	50	4050803	ms	08-May-14	8260B	
Toluene*	ND		0.050	mg/kg	50	4050803	ms	08-May-14	8260B	
Ethylbenzene*	ND		0.050	mg/kg	50	4050803	ms	08-May-14	8260B	
Total Xylenes*	ND		0.150	mg/kg	50	4050803	ms	08-May-14	8260B	
Total BTEX	ND		0.300	mg/kg	50	4050803	ms	08-May-14	8260B	
Surrogate: Dibromofluoromethane			95.5 %	61.3-142		4050803	ms	08-May-14	8260B	
Surrogate: Toluene-d8			105 %	71.3-129		4050803	ms	08-May-14	8260B	
Surrogate: 4-Bromofluorobenzene			100 %	65.7-141		4050803	ms	08-May-14	8260B	

Green Analytical Laboratories
General Chemistry

% Dry Solids	95.7			%	1	B405046	JGS	06-May-14	EPA160.3	
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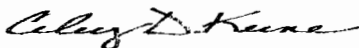
Total Metals by ICP

Barium	141		1.00	mg/kg dry	100	B405064	JGS	08-May-14	EPA6010 B	
Calcium	50100		1000	mg/kg dry	1000	B405064	JGS	08-May-14	EPA6010 B	
Iron	7850		5.00	mg/kg dry	100	B405064	JGS	08-May-14	EPA6010 B	

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 Hobbs NM, 88242

 Project: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 20-May-14 16:55

CELL-3V
H401321-07 (Soil)

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

Magnesium	2680	100	mg/kg dry	100	B405064	JGS	08-May-14	EPA6010 B
Potassium	1750	100	mg/kg dry	100	B405064	JGS	08-May-14	EPA6010 B
Sodium	ND	100	mg/kg dry	100	B405064	JGS	08-May-14	EPA6010 B
Zinc	28.6	5.00	mg/kg dry	100	B405064	JGS	08-May-14	EPA6010 B

Total Metals by ICPMS

Arsenic	2.45	0.500	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Cadmium	0.275	0.100	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Chromium	6.07	1.00	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Copper	3.67	0.100	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Lead	4.85	0.500	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Manganese	81.8	0.500	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Selenium	ND	1.00	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A
Silver	ND	0.100	mg/kg dry	1000	B405099	JGS	13-May-14	6020 A

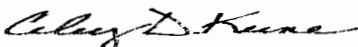
Total Mercury by CVAA

Mercury	ND	0.105	mg/kg dry	500	B405118	JGS	14-May-14	EPA7471	Q1
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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949Reported:
20-May-14 16:55**JD-WW #1**
H401321-08 (Water)

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

Chloride*	48.0		4.00	mg/L	1	4050503	AP	05-May-14	4500-Cl-B	
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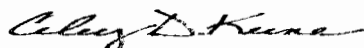
Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		1.00	mg/L	0.1	4050201	MS	05-May-14	8015B	
DRO >C10-C28	ND		1.00	mg/L	0.1	4050201	MS	05-May-14	8015B	
EXT DRO >C28-C35	ND		1.00	mg/L	0.1	4050201	MS	05-May-14	8015B	
Surrogate: 1-Chlorooctane			142 %	48.7-164		4050201	MS	05-May-14	8015B	
Surrogate: 1-Chlorooctadecane			142 %	54.8-165		4050201	MS	05-May-14	8015B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 20-May-14 16:55

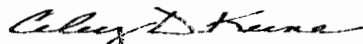
Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4050503 - General Prep - Wet Chem										
Blank (4050503-BLK1)				Prepared & Analyzed: 05-May-14						
Chloride	ND	4.00	mg/L							
LCS (4050503-BS1)				Prepared & Analyzed: 05-May-14						
Chloride	100	4.00	mg/L	100		100	80-120			
LCS Dup (4050503-BSD1)				Prepared & Analyzed: 05-May-14						
Chloride	104	4.00	mg/L	100		104	80-120	3.92	20	
Batch 4050606 - 1:4 DI Water										
Blank (4050606-BLK1)				Prepared & Analyzed: 06-May-14						
Chloride	ND	16.0	mg/kg							
LCS (4050606-BS1)				Prepared & Analyzed: 06-May-14						
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (4050606-BSD1)				Prepared & Analyzed: 06-May-14						
Chloride	400	16.0	mg/kg	400		100	80-120	0.00	20	
Batch 4050609 - NO PREP										
LCS (4050609-BS1)				Prepared & Analyzed: 06-May-14						
pH	7.15		pH Units	7.00		102	90-110			
Duplicate (4050609-DUP1)				Source: H401277-02 Prepared & Analyzed: 06-May-14						
pH	7.91	0.100	pH Units		7.90			0.126	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
20-May-14 16:55

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4050704 - General Prep - Wet Chem

LCS (4050704-BS1)

Prepared & Analyzed: 07-May-14

Conductivity	509		uS/cm	500		102	80-120			
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Duplicate (4050704-DUP1)

Source: H401277-06

Prepared & Analyzed: 07-May-14

Conductivity	337000	1.00	uS/cm		338000			0.296	20	
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Batch 4050710 - General Prep - Wet Chem

Blank (4050710-BLK1)

Prepared: 07-May-14 Analyzed: 09-May-14

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

LCS (4050710-BS1)

Prepared: 07-May-14 Analyzed: 09-May-14

Alkalinity, Carbonate	ND	0.00	mg/kg				80-120			
Alkalinity, Bicarbonate	127	5.00	mg/kg				80-120			
Alkalinity, Total	104	4.00	mg/kg	100		104	80-120			

LCS Dup (4050710-BSD1)

Prepared: 07-May-14 Analyzed: 09-May-14

Alkalinity, Carbonate	ND	0.00	mg/kg				80-120		20	
Alkalinity, Bicarbonate	132	5.00	mg/kg				80-120	3.79	20	
Alkalinity, Total	108	4.00	mg/kg	100		108	80-120	3.77	20	

Batch 4050802 - 1:4 DI Water

Blank (4050802-BLK1)

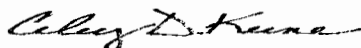
Prepared & Analyzed: 08-May-14

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

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
20-May-14 16:55

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4050802 - 1:4 DI Water
LCS (4050802-BS1)

Prepared & Analyzed: 08-May-14

Chloride	416	16.0	mg/kg	400	104	80-120			
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LCS Dup (4050802-BSD1)

Prepared & Analyzed: 08-May-14

Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20	
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Batch 4050808 - General Prep - Wet Chem
Blank (4050808-BLK1)

Prepared & Analyzed: 08-May-14

Sulfate	ND	10.0	mg/kg						
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LCS (4050808-BS1)

Prepared & Analyzed: 08-May-14

Sulfate	21.0	10.0	mg/kg	20.0	105	80-120			
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LCS Dup (4050808-BSD1)

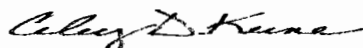
Prepared & Analyzed: 08-May-14

Sulfate	19.3	10.0	mg/kg	20.0	96.3	80-120	8.41	20	
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Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 20-May-14 16:55

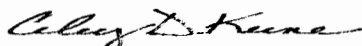
Organic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4050602 - Solvent Extraction									
Blank (4050602-BLK1)					Prepared & Analyzed: 07-May-14				
TPH 418.1	ND	100	mg/kg						
LCS (4050602-BS1)					Prepared & Analyzed: 07-May-14				
TPH 418.1	5820	100	mg/kg	5000		116	80-120		
LCS Dup (4050602-BSD1)					Prepared & Analyzed: 07-May-14				
TPH 418.1	5790	100	mg/kg	5000		116	80-120	0.603	20

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Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
20-May-14 16:55

Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4050201 - General Prep - Organics
Blank (4050201-BLK1)

Prepared: 02-May-14 Analyzed: 06-May-14

GRO C6-C10	ND	1.00	mg/L							
DRO >C10-C28	ND	1.00	mg/L							
EXT DRO >C28-C35	ND	1.00	mg/L							
Surrogate: 1-Chlorooctane	7.06		mg/L	5.00		141	48.7-164			
Surrogate: 1-Chlorooctadecane	7.01		mg/L	5.00		140	54.8-165			

LCS (4050201-BS1)

Prepared: 02-May-14 Analyzed: 05-May-14

GRO C6-C10	46.2	1.00	mg/L	50.0		92.4	59.3-133			
DRO >C10-C28	50.1	1.00	mg/L	50.0		100	43.4-148			
EXT DRO >C28-C35	ND	1.00	mg/L	0.00			0-0			
Surrogate: 1-Chlorooctane	6.70		mg/L	5.00		134	48.7-164			
Surrogate: 1-Chlorooctadecane	6.73		mg/L	5.00		135	54.8-165			

LCS Dup (4050201-BSD1)

Prepared: 02-May-14 Analyzed: 05-May-14

GRO C6-C10	48.6	1.00	mg/L	50.0		97.2	59.3-133	5.03	24	
DRO >C10-C28	53.0	1.00	mg/L	50.0		106	43.4-148	5.57	27.3	
EXT DRO >C28-C35	ND	1.00	mg/L	0.00			0-0		0	
Surrogate: 1-Chlorooctane	7.04		mg/L	5.00		141	48.7-164			
Surrogate: 1-Chlorooctadecane	7.16		mg/L	5.00		143	54.8-165			

Batch 4050801 - General Prep - Organics
Blank (4050801-BLK1)

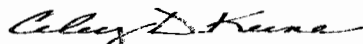
Prepared & Analyzed: 08-May-14

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	44.6		mg/kg	50.0		89.1	63.2-140			
Surrogate: 1-Chlorooctadecane	49.4		mg/kg	50.0		98.7	63.6-154			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
20-May-14 16:55

Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4050801 - General Prep - Organics
LCS (4050801-BS1)

Prepared & Analyzed: 08-May-14

GRO C6-C10	192	10.0	mg/kg	200		95.9	66.4-124		
DRO >C10-C28	220	10.0	mg/kg	200		110	61.6-132		
Total TPH C6-C28	411	10.0	mg/kg	400		103	69.7-122		
Surrogate: 1-Chlorooctane	59.3		mg/kg	50.0		119	65.2-140		
Surrogate: 1-Chlorooctadecane	62.1		mg/kg	50.0		124	63.6-154		

LCS Dup (4050801-BS1)

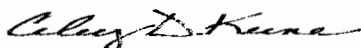
Prepared & Analyzed: 08-May-14

GRO C6-C10	195	10.0	mg/kg	200		97.6	66.4-124	1.84	23.4
DRO >C10-C28	248	10.0	mg/kg	200		124	61.6-132	12.1	23.1
Total TPH C6-C28	443	10.0	mg/kg	400		111	69.7-122	7.47	20.6
Surrogate: 1-Chlorooctane	62.0		mg/kg	50.0		124	65.2-140		
Surrogate: 1-Chlorooctadecane	63.6		mg/kg	50.0		127	63.6-154		

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
20-May-14 16:55

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4050803 - Volatiles
Blank (4050803-BLK1)

Prepared & Analyzed: 08-May-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: Dibromofluoromethane	0.483		mg/kg	0.500		96.6	61.3-142			
Surrogate: Toluene-d8	0.518		mg/kg	0.500		104	71.3-129			
Surrogate: 4-Bromofluorobenzene	0.507		mg/kg	0.500		101	65.7-141			

LCS (4050803-BS1)

Prepared & Analyzed: 08-May-14

Benzene	2.07	0.050	mg/kg	2.00		104	76.8-122			
Toluene	2.06	0.050	mg/kg	2.00		103	73.1-129			
Ethylbenzene	1.94	0.050	mg/kg	2.00		96.9	72.8-128			
m+p - Xylene	3.95	0.100	mg/kg	4.00		98.8	69.4-129			
Total Xylenes	5.91	0.150	mg/kg	6.00		98.4	72-127			
o-Xylene	1.95	0.050	mg/kg	2.00		97.6	70.3-126			
Surrogate: Dibromofluoromethane	0.491		mg/kg	0.500		98.3	61.3-142			
Surrogate: Toluene-d8	0.514		mg/kg	0.500		103	71.3-129			
Surrogate: 4-Bromofluorobenzene	0.517		mg/kg	0.500		103	65.7-141			

LCS Dup (4050803-BSD1)

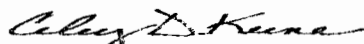
Prepared & Analyzed: 08-May-14

Benzene	1.93	0.050	mg/kg	2.00		96.6	76.8-122	6.95	18.7	
Toluene	1.97	0.050	mg/kg	2.00		98.5	73.1-129	4.32	19.4	
Ethylbenzene	1.85	0.050	mg/kg	2.00		92.5	72.8-128	4.66	21.8	
m+p - Xylene	3.80	0.100	mg/kg	4.00		94.9	69.4-129	4.03	25.3	
o-Xylene	1.83	0.050	mg/kg	2.00		91.6	70.3-126	6.25	23.6	
Total Xylenes	5.63	0.150	mg/kg	6.00		93.8	72-127	4.76	23.2	
Surrogate: Dibromofluoromethane	0.475		mg/kg	0.500		95.0	61.3-142			
Surrogate: Toluene-d8	0.514		mg/kg	0.500		103	71.3-129			
Surrogate: 4-Bromofluorobenzene	0.521		mg/kg	0.500		104	65.7-141			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
20-May-14 16:55

Total Metals by ICP - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B405064 - EPA 3050

Blank (B405064-BLK1)

Prepared & Analyzed: 08-May-14

Iron	ND	0.050	mg/kg dry							
Calcium	ND	1.00	mg/kg dry							
Potassium	ND	1.00	mg/kg dry							
Barium	ND	0.010	mg/kg dry							
Zinc	ND	0.050	mg/kg dry							
Magnesium	ND	1.00	mg/kg dry							
Sodium	ND	1.00	mg/kg dry							

LCS (B405064-BS1)

Prepared & Analyzed: 08-May-14

Iron	3.68	0.050	mg/kg dry	4.00		92.0	85-115			
Magnesium	19.2	1.00	mg/kg dry	20.0		96.2	85-115			
Calcium	3.68	1.00	mg/kg dry	4.00		91.9	85-115			
Barium	1.81	0.010	mg/kg dry	2.00		90.4	85-115			
Zinc	1.75	0.050	mg/kg dry	2.00		87.7	85-115			
Potassium	7.06	1.00	mg/kg dry	8.00		88.2	85-115			
Sodium	5.68	1.00	mg/kg dry	6.48		87.6	85-115			

LCS Dup (B405064-BSD1)


Prepared & Analyzed: 08-May-14

Magnesium	19.2	1.00	mg/kg dry	20.0		95.8	85-115	0.430	20	
Barium	1.80	0.010	mg/kg dry	2.00		89.8	85-115	0.713	20	
Potassium	6.89	1.00	mg/kg dry	8.00		86.2	85-115	2.36	20	
Zinc	1.74	0.050	mg/kg dry	2.00		87.1	85-115	0.676	20	
Sodium	5.67	1.00	mg/kg dry	6.48		87.6	85-115	0.0557	20	
Calcium	3.67	1.00	mg/kg dry	4.00		91.8	85-115	0.160	20	
Iron	3.66	0.050	mg/kg dry	4.00		91.5	85-115	0.550	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
20-May-14 16:55

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 B405099 - EPA 3050M
Blank (B405099-BLK1)

Prepared & Analyzed: 13-May-14

Manganese	0.0022	0.0005	mg/kg dry							B1
Lead	ND	0.0005	mg/kg dry							
Silver	ND	0.0001	mg/kg dry							
Selenium	ND	0.0010	mg/kg dry							
Copper	0.0016	0.0001	mg/kg dry							B1
Chromium	ND	0.0010	mg/kg dry							
Cadmium	ND	0.0001	mg/kg dry							
Arsenic	ND	0.0005	mg/kg dry							

LCS (B405099-BS1)

Prepared & Analyzed: 13-May-14

Copper	0.0500	0.0001	mg/kg dry	0.0500		100	85-115			
Selenium	0.247	0.0010	mg/kg dry	0.250		98.8	85-115			
Manganese	0.0511	0.0005	mg/kg dry	0.0500		102	85-115			
Chromium	0.0501	0.0010	mg/kg dry	0.0500		100	85-115			
Arsenic	0.0452	0.0005	mg/kg dry	0.0500		90.4	85-115			
Silver	0.0499	0.0001	mg/kg dry	0.0500		99.7	85-115			
Lead	0.0484	0.0005	mg/kg dry	0.0500		96.8	85-115			
Cadmium	0.0472	0.0001	mg/kg dry	0.0500		94.5	85-115			

LCS Dup (B405099-BSD1)

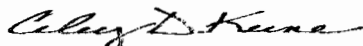
Prepared & Analyzed: 13-May-14

Arsenic	0.0449	0.0005	mg/kg dry	0.0500		89.7	85-115	0.759	20	
Chromium	0.0505	0.0010	mg/kg dry	0.0500		101	85-115	0.789	20	
Lead	0.0499	0.0005	mg/kg dry	0.0500		99.8	85-115	3.07	20	
Copper	0.0505	0.0001	mg/kg dry	0.0500		101	85-115	0.936	20	
Manganese	0.0513	0.0005	mg/kg dry	0.0500		103	85-115	0.395	20	
Cadmium	0.0494	0.0001	mg/kg dry	0.0500		98.8	85-115	4.50	20	
Silver	0.0527	0.0001	mg/kg dry	0.0500		105	85-115	5.45	20	
Selenium	0.245	0.0010	mg/kg dry	0.250		97.8	85-115	0.965	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 20-May-14 16:55

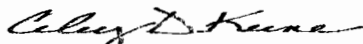
Total Mercury by CVAA - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B405118 - EPA 7471										
Blank (B405118-BLK1)										
				Prepared & Analyzed: 14-May-14						
Mercury	ND	0.0002	mg/kg wet							
LCS (B405118-BS1)										
				Prepared & Analyzed: 14-May-14						
Mercury	0.0021	0.0002	mg/kg wet	0.00200		103	85-115			
LCS Dup (B405118-BSD1)										
				Prepared & Analyzed: 14-May-14						
Mercury	0.0021	0.0002	mg/kg wet	0.00200		103	85-115	0.291	20	

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Celey D. Keene, Lab Director/Quality Manager

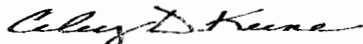
Notes and Definitions

Q1	Sample received outside of acceptable temperature range for analyses requiring cold storage.
B1	Target analyte detected in method blank at or above method reporting limit. Sample concentration found to be 10 times above the concentration found in the method blank or less than the reporting limit.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 25 of 25

BACKGROUND AND PQL

May 1, 2006

NMOCD Environmental
ATTN: Ed Martin
1220 S. Saint Francis Drive
Santa Fe, NM 87504

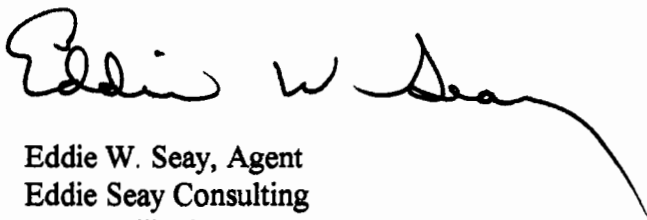
RE: Jay Dan Landfarm Permit NM-01-0045
Background

Mr. Martin:

Attached are the background sampling required by the OCD for Jay Dan Landfarm.

If you have any questions or need additional information, please call.

Thanks,

A handwritten signature in black ink, appearing to read "Eddie W. Seay", with a long, sweeping underline that extends to the right.

Eddie W. Seay, Agent
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242
(505)392-2236
seay04@leaco.net

Background



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

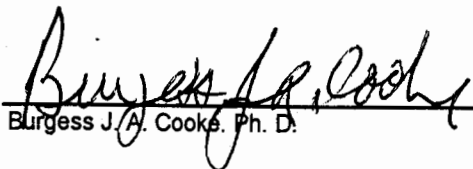
ANALYTICAL RESULTS FOR
EDDIE SEAY CONSULTING
ATTN: EDDIE SEAY
601 W. ILLINOIS
HOBBS, NM 88242
FAX TO: (505) 392-6949

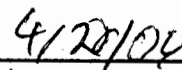
Receiving Date: 04/14/06
Reporting Date: 04/20/06
Project Owner: D. WATSON
Project Name: JAY DAN LANDFARM
Project Location: LOVINGTON, NM

Sampling Date: 04/13/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: BC

LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:		04/18/06	04/18/06	04/19/06	04/19/06	04/19/06	04/19/06
H11031-1	JD-1	<10.0	186	<0.005	<0.005	<0.005	<0.015
Quality Control		787	738	0.091	0.093	0.092	0.292
True Value QC		800	800	0.100	0.100	0.100	0.300
% Recovery		98.3	92.3	91.2	92.7	91.8	97.3
Relative Percent Difference		2.7	1.8	2.1	2.6	1.5	3.4

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.


Burgess J.A. Cooke, Ph. D.


Date

H11031A

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ANALYTICAL RESULTS FOR
EDDIE SEAY CONSULTING
ATTN: EDDIE SEAY
601 W. ILLINOIS
HOBBS, NM 88242
FAX TO: (505) 392-6949

Receiving Date: 04/14/06
Reporting Date: 04/26/06
Project Owner: D. WATSON
Project Name: JAY DAN LANDFARM
Project Location: LOVINGTON, NM

Sampling Date: 04/13/06
Sample Type: SOIL
Sample Condition: COOL AND INTACT
Sample Received By: HM
Analyzed By: HM

TOTAL METALS

LAB NUMBER SAMPLE ID

Al Co Cu Fe
(ppm) (ppm) (ppm) (ppm)

ANALYSIS DATE:	04/25/06	04/25/06	04/25/06	04/25/06
H11031-1 JD-1	2411	12.3	7.8	2059
Quality Control	24.14	1.964	3.014	4.737
True Value QC	25.00	2.000	3.000	5.000
% Recovery	96.7	98.2	100	94.7
Relative Percent Difference	0.6	0.3	0.2	0.6
METHODS: EPA 600/04-79-020	202.1	219.1	220.1	236.1

Mn Mo Ni Zn
(ppm) (ppm) (ppm) (ppm)

ANALYSIS DATE:	04/25/06	04/25/06	04/25/06	04/25/06
H11031-1 JD-1	28.6	< 0.1	17.4	9.1
Quality Control	4.062	3.012	1.044	0.500
True Value QC	4.000	3.000	1.000	0.500
% Recovery	102	100	104	100
Relative Percent Difference	0.2	6	0.9	0.7
METHODS: EPA 600/04-79-020	243.1	246.1	249.1	289.1


Chemist

04-27-06
Date

H11031M2

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ANALYTICAL RESULTS FOR
EDDIE SEAY CONSULTING
ATTN: EDDIE SEAY
601 W. ILLINOIS
HOBBS, NM 88242
FAX TO: (505) 392-6949

Receiving Date: 04/14/06
Reporting Date: 04/26/06
Project Owner: D. WATSON
Project Name: JAY DAN LANDFARM
Project Location: LOVINGTON, NM

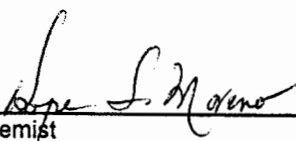
Sampling Date: 04/13/06
Sample Type: SOIL
Sample Condition: COOL AND INTACT
Sample Received By: HM
Analyzed By: HM

RCRA METALS

LAB NUMBER	SAMPLE ID	As ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se ppm
------------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

ANALYSIS DATE:	04/21/06	04/19/06	04/26/06	04/25/06	04/19/06	04/19/06	04/25/06	04/21/06
H11031-1 JD-1	2.6	11.6	3323	3.2	10.3	47.4	0.02	0.6
Quality Control	0.157	4.878	51.87	1.02	0.940	5.177	0.0062	0.158
True Value QC	0.150	5.000	50.00	1.00	1.000	5.000	0.0060	0.150
% Recovery	105	97.6	104	102	94	104	103	106.0
Relative Percent Difference	0.2	0.1	3	0.4	0.9	0.5	3.2	3.2

METHODS: EPA 600/4-79-020	206.2	272.1	208.1	213.1	218.2	239.1	245.1	270.2
METHODS: SW-846	7060A	7760A	7080A	7130	7190	7420	7470A	7740


Chemist

04-27-06
Date

H11031M

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ANALYTICAL RESULTS FOR
EDDIE SEAY CONSULTING
601 W. ILLINOIS
HOBBS, NM 88242
FAX TO: (505) 392-6949

Receiving Date: 04/14/06
Reporting Date: 04/18/06
Project Owner: D. WATSON
Project Name: JAY DAN LANDFARM
Project Location: LOVINGTON, NM

Sampling Date: 04/13/06
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: HM
Analyzed By: AB/HM

LAB NUMBER	SAMPLE ID	Na (mg/L)	Ca (mg/L)	Mg (mg/L)	K (mg/L)	Conductivity (μ S/cm)	T-Alkalinity (mgCaCO ₃ /L)
------------	-----------	--------------	--------------	--------------	-------------	-------------------------------	--

ANALYSIS DATE:	04/17/06	04/17/06	04/17/06	04/17/06	04/14/06	04/17/06
H11031-1 JD-1	1	32	19	5	190	80
Quality Control	NR	48.1	48.6	3.96	1426	NR
True Value QC	NR	50.0	50.0	4.00	1413	NR
% Recovery	NR	96.2	97.2	100	101	NR
Relative Percent Difference	NR	0.0	0.0	1.5	0.2	NR

METHODS:	SM3500-Ca-D	3500-Mg E	8049	120.1	310.1
----------	-------------	-----------	------	-------	-------

Cl ⁻ (mg/L)	SO ₄ (mg/L)	CO ₃ (mg/L)	HCO ₃ (mg/L)	pH (s.u.)	TDS (mg/L)
---------------------------	---------------------------	---------------------------	----------------------------	--------------	---------------

ANALYSIS DATE:	04/17/06	04/17/06	04/17/06	04/17/06	04/14/06	
H11031-1 JD-1	32	40	0	98	8.06	-
Quality Control	500	27.3	NR	976	6.92	NR
True Value QC	500	25.0	NR	1000	7.00	NR
% Recovery	100	109	NR	97.6	98.9	NR
Relative Percent Difference	0.0	11	NR	13.0	0.7	NR

METHODS:	SM4500-Cl-B	375.4	310.1	310.1	150.1	160.1
----------	-------------	-------	-------	-------	-------	-------

Lope S. Moreno
Chemist

04-27-06
Date



2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240
(915) 673-7001 Fax (915) 873-7020 (505) 393-2326 Fax (505) 393-2476

Page _____ of _____

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Eddie Snow Consulting Project Manager: Eddie Snow Address: 601 W. Indiana City: Albany State: NY Zip: 86242 Phone #: 2-222-36 Fax #: 2-6949 Project #: 501 Don Landfarm Project Owner: D. Watson Project Name: 501 Don Landfarm State: NY Project Location: Levinston Phone #: 2-6949 FOR LAB USE ONLY:				Company: Eddie Snow PO #: 10 Address: 601 W. Indiana City: Albany State: NY Phone #: 2-6949 Fax #: 2-6949			
LAB I.D. Sample I.D.		(G) GAS OR (C) COMP.		MATRIX PRES. SAMPLING			
# CONTAINERS		GROUNDWATER		WASTEWATER			
SOIL		OIL		SLUDGE			
OTHER:		ACID:		ICE / COOL			
DATE		TIME		BT EX			
TPH (fms)		WACC Metal		Cations			
Anions							

RECEIVED BY: (Lab Staff) **Edie Snow**
 Date: **2-14-06** Time: **10:10**
 Relinquished By: **Edie Snow**
 Date: **2-14-06** Time: **10:10**
 Sample Condition: **Good**
 Cool / Intact: **Yes**
 Checked By: **Edie Snow**
 (Initials)

REMARKS: **Rockground**
 Phone Result: **Yes**
 Fax Result: **Yes**
 Additional Fax #:

Original cannot accept verbal changes. Please fax written changes to 915-673-2000.

New Mexico Limits

Rule 53 G. 6.

(e) The concentration of the constituents listed in Subsections A and B of 20.6.2.3103 NMAC, as determined by EPA SW-846 Methods 6010B or 6020, or other methods approved by the division, shall not exceed the background soil concentration or the applicable closure concentration specified below, or an acceptable Practical Quantitation Limit, whichever is greater:

Landfarm Soil Closure Standards		Concentration (mg/kg)
Constituent		(Except where noted)
(i)	Arsenic (As)	0.0146
(ii)	Barium (Ba)	106
(iii)	Cadmium (Cd)	1.37
(iv)	Chromium (Cr)	2.10
(v)	Cyanide (CN)	7.35
(vi)	Fluoride (F)	329
(vii)	Lead (Pb)	400
(viii)	Total Mercury (Hg)	334
(ix)	Nitrate (NO ₃ as N)	17.1
(x)	Selenium (Se)	0.953
(xi)	Silver (Ag)	1.57
(xii)	Uranium (U)	16
(xiii)	Radioactivity: Combined Radium-226 and Radium-228	30 pCi/g
(xiv)	Polychlorinated biphenyls (PCBs)	0.0224
(xv)	Toluene	0.347
(xvi)	Carbon Tetrachloride	0.000988
(xvii)	1,2-dichloroethane (EDC)	0.000248
(xviii)	1,1-dichloroethylene (1,1-DCE)	0.133
(xix)	1,1,2,2- tetrachloroethylene (PCE)	0.00215
(xx)	1,1,2-trichloroethylene (TCE)	0.000131
(xxi)	ethylbenzene	1.01
(xxii)	total xylenes	0.167
(xxiii)	methylene chloride	0.00853
(xxiv)	chloroform	0.000414
(xxv)	1,1-dichloroethane	0.201
(xxvi)	ethylene dibromide (EDB)	0.000013
(xxvii)	1,1,1-trichloroethane	1.34

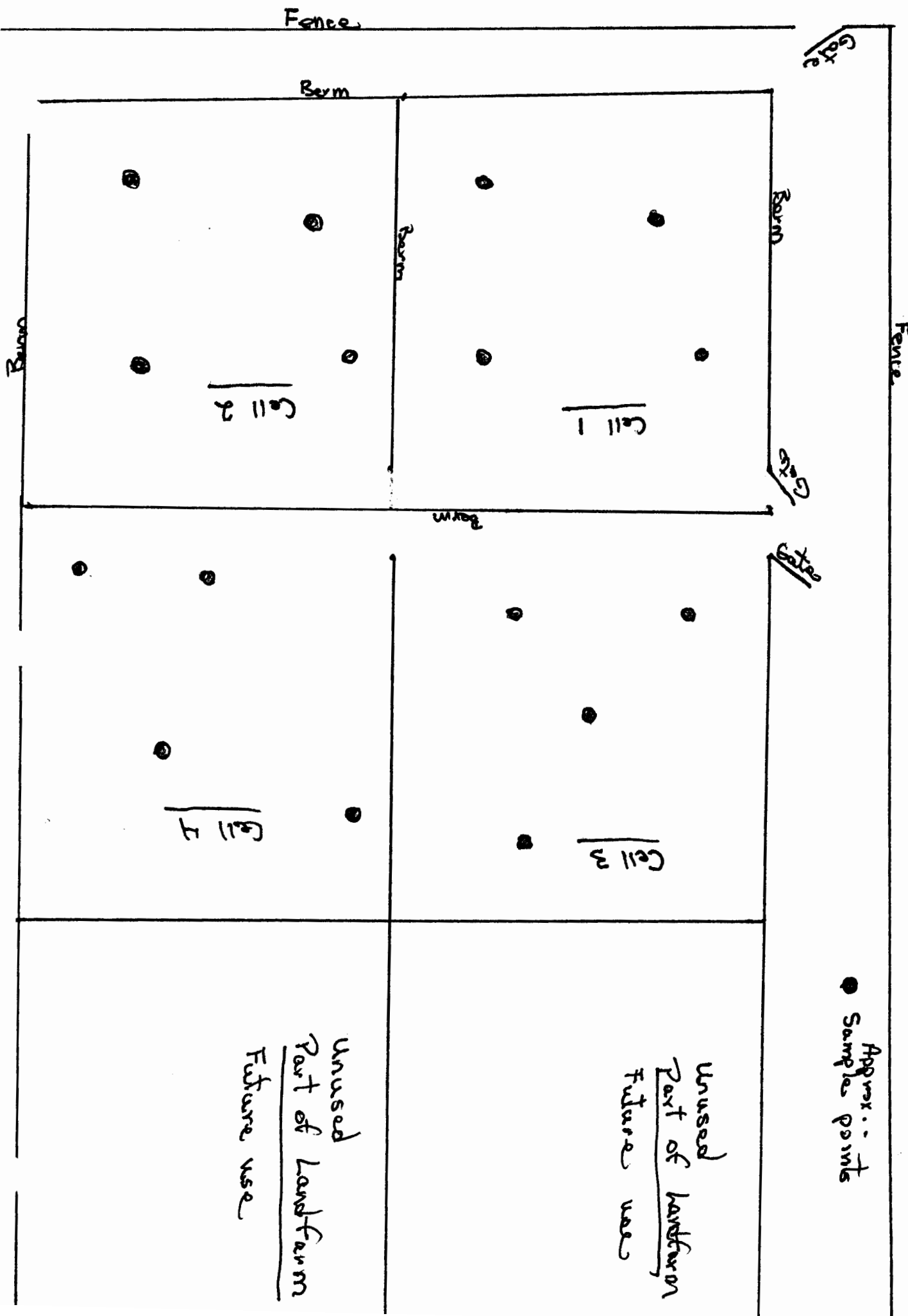
(xxviii)	1,1,2-trichloroethane	0.000498
(xxix)	1,1,2,2-tetrachloroethane	0.000172
(xxx)	vinyl chloride	0.000143
(xxxi)	PAHs: total naphthalene plus monomethylnaphthalenes	0.0197
(xxxii)	benzo-a-pyrene	0.6210
(xxxiii)	Chloride (Cl)	1000
(xxxiv)	Copper (Cu)	51.5
(xxxv)	Iron (Fe)	277
(xxxvi)	Manganese (Mn)	334
(xxxvii)	Phenols	2.37
(xxxviii)	Sulfate (SO ₄)	background
(xxxix)	Zinc (Zn)	682

MAP

Jay Dan
(01-0045)

N
W ↙

Approx. -
● Sample points



JAY DAN LANDFARM

PERMIT (NM 01-0045)

MAY 2014

May 21, 2014

RECEIVED OCD
2014 MAY 23 P 2:15

NMOCD Environmental
ATTN: Brad Jones
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Jay Dan Landfarm
(NM-01-0045)

Mr. Jones:

I received your letter concerning the elevated chlorides for the treatment area at Jay Dan Landfarm.

I immediately met with the owner/operator, Mr. Watson, to try and find out why. We reviewed the C-138, chloride tests and receipts to see if anything was accepted that would show high levels of salt, none were found.

I instructed Jay Dan to start a vigorous disking program to try and dilute the salty soils down to an acceptable level, this was initiated, they disked the cell areas three times a week before I resampled. The sample results are attached, they are still a bit elevated but considerable lower. We will continue with this schedule and try to get into compliance.

If Jay Dan is not successful in getting the chloride levels down within the next few months, Jay Dan is committed to the following:

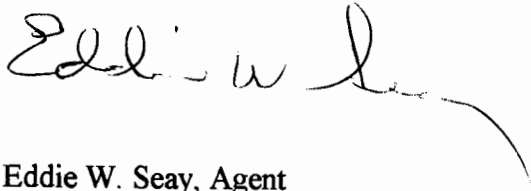
Jay Dan will grid sample the cells that have high chlorides. Once the hot spots have been identified, the high chloride soil will be removed and taken to an OCD approved facility for disposal. This will be done only with approval from the OCD.

Again, I apologize for the deficiency in the operation.

The Vadose sampling and the final 5 yr. test for cell #4 are in the lab and will be sent soon, as instructed.

Please let us know if you need anything further.

Thanks,

A handwritten signature in cursive script, appearing to read "Eddie W. Seay". The signature is written in black ink and has a long, sweeping tail that extends to the right.

Eddie W. Seay, Agent
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242
575-392-2236
seay04@leaco.net

cc: Jay Dan Landfarm



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

May 08, 2014

Eddie Seay

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

RE: JAY DAN LF (NM.01.0045)

Enclosed are the results of analyses for samples received by the laboratory on 05/01/14 9:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 Eddie Seay
 601 W. Illinois
 Hobbs NM, 88242
 Fax To: (505) 392-6949

 Received: 05/01/2014
 Reported: 05/08/2014
 Project Name: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Location: NW/SW SEC 32 T15 R35 LEA

 Sampling Date: 04/30/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CELL-1T (H401321-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/08/2014	ND	400	100	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/08/2014	ND	174	87.2	200	25.4		
DRO >C10-C28	<10.0	10.0	05/08/2014	ND	194	96.9	200	13.4		

 Surrogate: 1-Chlorooctane 68.1 % 65.2-140
 Surrogate: 1-Chlorooctadecane 71.7 % 63.6-154

Sample ID: CELL-2T (H401321-02)

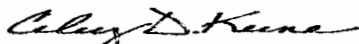
Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2240	16.0	05/08/2014	ND	400	100	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/08/2014	ND	174	87.2	200	25.4		
DRO >C10-C28	64.6	10.0	05/08/2014	ND	194	96.9	200	13.4		

 Surrogate: 1-Chlorooctane 80.4 % 65.2-140
 Surrogate: 1-Chlorooctadecane 96.9 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analysis. All claims, including those for negligence and any other cause whatsoever shall be deemed waived 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.



Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 Eddie Seay
 601 W. Illinois
 Hobbs NM, 88242
 Fax To: (505) 392-6949

 Received: 05/01/2014
 Reported: 05/08/2014
 Project Name: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Location: NW/SW SEC 32 T15 R35 LEA

 Sampling Date: 04/30/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CELL-3T (H401321-03)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/08/2014	ND	400	100	400	0.00		
TPH 8015M			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	05/08/2014	ND	174	87.2	200	25.4		
DRO >C10-C28	257	50.0	05/08/2014	ND	194	96.9	200	13.4		

 Surrogate: 1-Chlorooctane 86.2 % 65.2-140
 Surrogate: 1-Chlorooctadecane 135 % 63.6-154

Sample ID: CELL-4T (H401321-04)

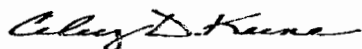
Chloride, SM4500Cl-B			mg/kg Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	736	16.0	05/08/2014	ND	416	104	400	0.00		
TPH 8015M			mg/kg Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/08/2014	ND	174	87.2	200	25.4		
DRO >C10-C28	123	10.0	05/08/2014	ND	194	96.9	200	13.4		

 Surrogate: 1-Chlorooctane 88.5 % 65.2-140
 Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

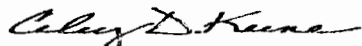
Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Eddies Sperry Consulting</u>		P.O. #:																				
Project Manager: <u>Eddies Sperry</u>		Company:																				
Address: <u>601 W 11th N</u>		Attn: <u>Sam</u>																				
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88240</u>		Address: <u>Sam</u>																				
Phone #: <u>2.2234</u> Fax #: <u>2.16449</u>		City: <u>Sam</u>																				
Project #: <u>Sam Dan LE</u> Project Owner: <u>D. Watson</u>		State: <u>Zip:</u>																				
Project Name: <u>Sam Dan Land farm (NM-015)</u>		Phone #:																				
Project Location: <u>Unit E 32-15-35</u>		Fax #:																				
Sample Name: <u>Eddies Sperry 301 Howard Street</u>		PRESERV																				
FOR LAB USE ONLY		SAMPLING																				
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMPA	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	BTEX (8021 B m 8215)	TPH (418.1)	TPH (8015)	Chloride (300.1)	Cations	Anions	Wacc metab	
H4E1321	Call-1 T	✓	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	4/30	7:30	✓	✓	✓	✓	✓	✓	✓	✓
1	Call-2 T	✓	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	4/30	7:50	✓	✓	✓	✓	✓	✓	✓	✓
2	Call-3 T	✓	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	4/30	8:10	✓	✓	✓	✓	✓	✓	✓	✓
3	Call-4 T	✓	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	4/30	8:35	✓	✓	✓	✓	✓	✓	✓	✓
4	Call-1 V	✓	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	4/30	9:50	✓	✓	✓	✓	✓	✓	✓	✓
5	Call-2 V	✓	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	4/30	11:10	✓	✓	✓	✓	✓	✓	✓	✓
6	Call-3 V	✓	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	4/30	12:15	✓	✓	✓	✓	✓	✓	✓	✓
7	Call-4 V	✓	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	4/30	1:30	✓	✓	✓	✓	✓	✓	✓	✓
8	Call-1 V	✓	3	✓	✓	✓	✓	✓	✓	✓	✓	✓	4/30	1:30	✓	✓	✓	✓	✓	✓	✓	✓

PLEASE NOTE: Liability and Damages: Cardinal's liability and the client's exclusive remedy for any claim arising from this contract or TBT shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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 or its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal. Incidents of weather, such as flood, claim is denied upon any of the above stated reasons or otherwise.

Relinquished By: Eddies Sperry Date: 4/30 Received By: Sam Date: 4/30
Time: 9:00 AM Time: 9:00 AM
Relinquished By: Eddies Sperry Received By: Sam
Time: 9:00 AM Time: 9:00 AM

Delivered By: (Circle One) UPS 2.40 Sample Condition: Cool Intact Yes Yes No No CHECKED BY: Sam

REMARKS: T - Treat and you
V - Vadosa zone

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

David Martin
Cabinet Secretary

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

Jami Bailey, Division Director
Oil Conservation Division



April 8, 2014

Danny Watson
Jay Dan Landfarm LLC
P.O. Box 632
Lovington, New Mexico 88260

**RE: 2013 Monitoring Reports Review
Jay Dan Landfarm, LLC
Permit NM1-045
Location: Unit E of Section 32, Township 15 South, Range 35 East, NMPM
Lea County, New Mexico**

Dear Mr. Watson:

The Oil Conservation Division (OCD) has completed the review of Jay Dan Landfarm LLC's (Jay Dan) June 4, 2013 and November 2013 Monitoring Reports. OCD has determined that the reported treatment zone chloride concentrations exceed the waste acceptance criteria of Part 36. The vadose zone results were not compared to the background results in order to determine if a release had occurred and if the required follow-up actions are required to be completed. The five year vadose sampling event was not implemented on all of the active landfarm cells and additional laboratory analysis was performed that was not required by regulation. Also, the incorrect test method for TPH was utilized and demonstrated in regards to vadose zone monitoring.

Pursuant to Subsection A of 19.15.36.15 NMAC, "Oil field waste acceptance criteria. Only soils and drill cuttings predominantly contaminated by petroleum hydrocarbons shall be placed in a landfarm. The division may approve placement of tank bottoms in a landfarm if the operator demonstrates that the tank bottoms do not contain economically recoverable petroleum hydrocarbons. Soils and drill cuttings placed in a landfarm shall be sufficiently free of liquid content to pass the paint filter test, and shall not have a chloride concentration exceeding 500 mg/kg if the landfarm is located where ground water is less than 100 feet but at least 50 feet below the lowest elevation at which the operator will place oil field waste or exceeding 1000 mg/kg if the landfarm is located where ground water is 100 feet or more below the lowest elevation at which the operator will place oil field waste. The person tendering oil field waste for treatment at a landfarm shall certify, on form C-138, that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content, and that the samples have been found to conform to these requirements. The landfarm's operator shall not

accept oil field waste for landfarm treatment unless accompanied by this certification. The November 16, 2004 facility permit application identifies the depth of ground water to be approximately 75 below the ground surface. This would limit the acceptance of contaminated soils up to 500 mg/kg for chlorides. The June 4, 2013 monitoring report identified the following chloride results for the soils to be remediated: Cell #1 1380 mg/kg; Cell #2 8080 mg/kg; Cell #3 592 mg/kg; and Cell #4 2360 mg/kg. The November 2013 monitoring report identified chlorides at 832 mg/kg in Cell #1. Since the acceptance concentration will also be the closure standard for chlorides, this will create issues at closure. Please contact OCD to resolve this issue.

Pursuant to Paragraph (5) of 19.15.36.15.E NMAC, “If vadose zone sampling results show that the concentrations of TPH, BTEX or chlorides exceed the higher of the PQL or the background soil concentrations, then the operator shall notify the division’s environmental bureau of the exceedance, and shall immediately collect and analyze a minimum of four randomly selected, independent samples for TPH, BTEX, chlorides and the constituents listed in Subsections A and B of 20.6.2.3103 NMAC. The operator shall submit the results of the re-sampling event and a response action plan for the division’s approval within 45 days of the initial notification. The response action plan shall address changes in the landfarm’s operation to prevent further contamination and, if necessary, a plan for remediating existing contamination.” The June 4, 2013 and November 2013 Monitoring Reports only included the laboratory results from the sampling events. The rest of the vadose zone assessment was not completed to determine if a release has occurred and/or if the required additional testing and a response action plan of Paragraph (5) of 19.15.36.15.E NMAC are required. Please complete the required assessment.

In accordance with Paragraph (1) of 19.15.36.15.E NMAC, “The operator shall monitor the vadose zone beneath the treatment zone in each landfarm cell.” Pursuant to Paragraph (3) of 19.15.36.15.E NMAC, “The operator shall collect and analyze a minimum of four randomly selected, independent samples from the vadose zone, using the methods specified below for the constituents listed in Subsections A and B of 20.6.2.3103 NMAC at least every five years and shall compare each result to the higher of the PQL or the background soil concentrations to determine whether a release has occurred.” The five year sampling was only performed on the following landfarm cell(s): Cell #2 sampled April, 13, 2013 and Cell #3 sampled Oct. 16, 2013. Also, the laboratory results submitted in the monitoring report demonstrated that analysis was performed for all the constituents listed in Subsections A and B of 20.6.2.3103 NMAC. As underlined in the above reference of Paragraph (1) of 19.15.36.15.E NMAC, the “methods specified below for the constituents listed in Subsections A and B of 20.6.2.3103 NMAC” are those identified in Subsection F of 19.15.36.15 NMAC: such as “determined by EPA SW-846 methods 6010B or 6020 or other EPA method approved by the division...” Please preform the five year monitoring program on the remaining active landfarm cells in order the complete the five year monitoring and to demonstrate compliance of Paragraphs (1) and (3) of 19.15.36.15.E NMAC.

In regards to utilizing the proper TPH test method for vadose zone monitoring, in accordance with Paragraph (2) of 19.15.36.15.E NMAC the operator shall analyze the samples from the vadose zone “using the methods specified below for TPH, BTEX and chlorides and shall compare each result to the higher of the PQL or the background soil concentrations to determine whether a release has occurred.” The “methods specified below for TPH, BTEX and chlorides” are those identified in Subsection F of 19.15.36.15 NMAC: such as “TPH, as determined by

EPA method 418.1 or other EPA method approved by the division...” Pursuant to the Transitional Provisions of Subsection A of 19.15.36.20.NMAC, “Existing surface waste management facilities shall comply with the operational, waste acceptance and closure requirements provided in 19.15.36 NMAC, except as otherwise specifically provided in the applicable permit or order, or in a specific waiver, exception or agreement that the division has granted in writing to the particular surface waste management facility.” The most common vadose zone monitoring (commonly referred to, but incorrectly as “Treatment Zone Monitoring” within existing landfarm permits) condition in an existing landfarm permit is as follows: “The soil samples must be analyzed using EPA-approved methods for total petroleum hydrocarbons (TPH) and volatile aromatic organics (BTEX) quarterly and for major cations/anions and Water Quality Control Commission (WQCC) metals annually.” The permit condition only identified the constituent and does not specify the test method. Part 36 specifies EPA Method 418.1 as the required vadose zone analyses for TPH. Please submit all future vadose zone sampling results demonstrating TPH by EPA Method 418.1.

Please implement the required waste acceptance criteria of Subsection A of 19.15.36.15 NMAC. Please complete the required actions of 19.15.36.15.E NMAC and provide OCD with the additional sampling results, a response action plan, and submit the sampling results demonstrating TPH by EPA Method 418.1 within 120 days of receipt of this letter. Also, please provide an updated facility map that illustrates and identifies the individual landfarm cells within the facility boundary and indicate the approximate location within the landfarm cells in which the samples were obtained. If there are any questions regarding this matter, please do not hesitate to contact me at (505) 476-3487 or brad.a.jones@state.nm.us.

Sincerely,

A handwritten signature in black ink, appearing to read 'Brad A. Jones', with a long horizontal line extending to the right.

Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District I Office, Hobbs
Eddie Seay, Eddie Seay Consulting, Hobbs, NM 88242

November, 2013

RECEIVED OCD

2013 NOV 26 P 2: 33

NMOCD Environmental
ATTN: Brad Jones
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Jay Dan Landfarm (NM-01-0045)
Semi-Annual Sampling
Cell 3 Five Year Monitoring

Mr. Jones:

Find within the semi-annual sampling for both the treatment zone and vadose zone as required and five year monitoring.

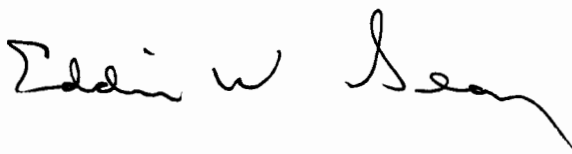
The treatment zone samples were taken at two to four inches of surface making one composite from four discrete samples for each cell, testing for TPH and Chloride.

The vadose zone samples were taken at approximately three feet below the natural surface level. There were four randomly selected samples composited from each cell, testing for BTEX, TPH and Chloride.

We are continuing to sample and analyze the "Five Year Monitoring" as rule 36 requires.

If you have any questions or need anything further, please call.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie W. Seay". The signature is fluid and cursive, with a long horizontal stroke at the end.

Eddie W. Seay, Agent
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242
575-392-2236
seay04@leaco.net

cc: Jay Dan Landfarm



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

October 22, 2013

Eddie Seay

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

RE: JAY DAN LAND FARM

Enclosed are the results of analyses for samples received by the laboratory on 10/17/13 10:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 Eddie Seay
 601 W. Illinois
 Hobbs NM, 88242
 Fax To: (505) 392-6949

 Received: 10/17/2013
 Reported: 10/22/2013
 Project Name: JAY DAN LAND FARM
 Project Number: JAY DAN LANDFARM
 Project Location: NW/SW SECT 32 T15 R35

 Sampling Date: 10/16/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CELL 1 - T (H302514-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	832	16.0	10/18/2013	ND	400	100	400	3.92	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2013	ND	204	102	200	8.49	
DRO >C10-C28	2690	10.0	10/18/2013	ND	199	99.4	200	8.56	

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 216 % 63.6-154

Sample ID: CELL 2 - T (H302514-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/18/2013	ND	400	100	400	3.92	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2013	ND	204	102	200	8.49	
DRO >C10-C28	77.1	10.0	10/18/2013	ND	199	99.4	200	8.56	

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 10/17/2013
Reported: 10/22/2013
Project Name: JAY DAN LAND FARM
Project Number: JAY DAN LANDFARM
Project Location: NW/SW SECT 32 T15 R35

Sampling Date: 10/16/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 3 - T (H302514-03)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/18/2013	ND	400	100	400	3.92	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2013	ND	204	102	200	8.49	
DRO >C10-C28	31.5	10.0	10/18/2013	ND	199	99.4	200	8.56	

Surrogate: 1-Chlorooctane 123 % 65.2-140
Surrogate: 1-Chlorooctadecane 129 % 63.6-154

Sample ID: CELL 4 - T (H302514-04)

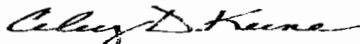
Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/18/2013	ND	400	100	400	3.92	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2013	ND	204	102	200	8.49	
DRO >C10-C28	285	10.0	10/18/2013	ND	199	99.4	200	8.56	

Surrogate: 1-Chlorooctane 108 % 65.2-140
Surrogate: 1-Chlorooctadecane 123 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 Eddie Seay
 601 W. Illinois
 Hobbs NM, 88242
 Fax To: (505) 392-6949

 Received: 10/17/2013
 Reported: 10/22/2013
 Project Name: JAY DAN LAND FARM
 Project Number: JAY DAN LANDFARM
 Project Location: NW/SW SECT 32 T15 R35

 Sampling Date: 10/16/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CELL 1 - V (H302514-05)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2013	ND	1.89	94.4	2.00	0.484	
Toluene*	<0.050	0.050	10/19/2013	ND	1.95	97.4	2.00	0.486	
Ethylbenzene*	<0.050	0.050	10/19/2013	ND	1.97	98.4	2.00	0.735	
Total Xylenes*	<0.150	0.150	10/19/2013	ND	5.81	96.8	6.00	0.984	
Total BTEX	<0.300	0.300	10/19/2013	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/18/2013	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/22/2013	ND	204	102	200	8.49	
DRO >C10-C28	<10.0	10.0	10/22/2013	ND	199	99.4	200	8.56	

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 Eddie Seay
 601 W. Illinois
 Hobbs NM, 88242
 Fax To: (505) 392-6949

 Received: 10/17/2013
 Reported: 10/22/2013
 Project Name: JAY DAN LAND FARM
 Project Number: JAY DAN LANDFARM
 Project Location: NW/SW SECT 32 T15 R35

 Sampling Date: 10/16/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CELL 2 - V (H302514-06)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2013	ND	1.89	94.4	2.00	0.484	
Toluene*	<0.050	0.050	10/19/2013	ND	1.95	97.4	2.00	0.486	
Ethylbenzene*	<0.050	0.050	10/19/2013	ND	1.97	98.4	2.00	0.735	
Total Xylenes*	<0.150	0.150	10/19/2013	ND	5.81	96.8	6.00	0.984	
Total BTEX	<0.300	0.300	10/19/2013	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/18/2013	ND	400	100	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2013	ND	204	102	200	8.49	
DRO >C10-C28	<10.0	10.0	10/18/2013	ND	199	99.4	200	8.56	

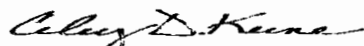
Surrogate: 1-Chlorooctane 110 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 Eddie Seay
 601 W. Illinois
 Hobbs NM, 88242
 Fax To: (505) 392-6949

 Received: 10/17/2013
 Reported: 10/22/2013
 Project Name: JAY DAN LAND FARM
 Project Number: JAY DAN LANDFARM
 Project Location: NW/SW SECT 32 T15 R35

 Sampling Date: 10/16/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CELL 4 - V (H302514-07)

BTEX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2013	ND	1.89	94.4	2.00	0.484	
Toluene*	<0.050	0.050	10/19/2013	ND	1.95	97.4	2.00	0.486	
Ethylbenzene*	<0.050	0.050	10/19/2013	ND	1.97	98.4	2.00	0.735	
Total Xylenes*	<0.150	0.150	10/19/2013	ND	5.81	96.8	6.00	0.984	
Total BTEX	<0.300	0.300	10/19/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/18/2013	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2013	ND	204	102	200	8.49	
DRO >C10-C28	<10.0	10.0	10/18/2013	ND	199	99.4	200	8.56	

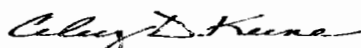
Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 115 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 10/17/2013
Reported: 10/22/2013
Project Name: JAY DAN LAND FARM
Project Number: JAY DAN LANDFARM
Project Location: NW/SW SECT 32 T15 R35

Sampling Date: 10/16/2013
Sampling Type: Water
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

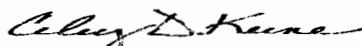
Sample ID: JAY DAN WW #1 (H302514-08)

Chloride, SM4500Cl-B		mg/L	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	56.0	4.00	10/22/2013	ND	100	100	100	3.92	
TPH 8015M		mg/L	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1.00	1.00	10/21/2013	ND	45.7	91.3	50.0	3.58	
DRO >C10-C28	<1.00	1.00	10/21/2013	ND	45.8	91.7	50.0	0.272	
EXT DRO >C28-C35	<1.00	1.00	10/21/2013	ND	ND		0.00		
Surrogate: 1-Chlorooctane									
	93.7 %	48.7-164							
Surrogate: 1-Chlorooctadecane									
	117 %	54.8-165							

Cardinal Laboratories

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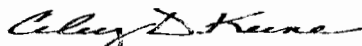
Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



Page 9 of 9

(575) 393-2326 FAX (575) 393-2476

Company Name: Eddies Sany Consulting		P.O. #:	
Project Manager: Eddie Sany		Company:	
Address: 1001 W. Illinois		Attn: Eddie	
City: Madison State: MO Zip: 64740		Address:	
Phone #: 2-223 6 Fax #: 2-6949		City: Madison	
Project #: San Dam LE Project Owner: Danny Watson		State: MO Zip: 64740	
Project Name: San Dam Landfill NM. 01.5045		Phone #:	
Project Location: NW 150 S. 32 T. 15 R. 35		Fax #:	
Sampler Name: Eddie Sany By: Harold		FOR LAB USE ONLY	

Lab I.D.	Sample I.D.	(G)RAB OR (COM)	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				ACID/BASE:
#3208514													
1	COO 1 - T		1								10/16	7:45	BTEX
2	COO 2 - T		1								10/16	8:05	TPH (8015)
3	COO 3 - T		1								10/16	8:35	Chloride
4	COO 4 - T		1								10/16	9:00	
5	COO 1 - V		1								10/16	10:10	
6	COO 2 - V		1								10/16	10:40	
7	COO 4 - V		1								10/16	11:15	
8	San Dam 1001		1								10/16	11:30	

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Relinquished By: Eddie Sany	Date: 10/17/13	Received By: Harold
Relinquished By: Eddie Sany	Date: 10/17/13	Received By: Harold
Time:		

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> <input type="checkbox"/> No <input type="checkbox"/> No	(Initials) HS
2.6°C		

REMARKS: **T - Transient Zone**
U - Volatiles zone

+ Cardinal cannot accept verbal changes. Please fax written changes to (676) 393-2326

#57

November 19, 2013

Eddie Seay
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242

RE: JAY DAN LF NM-01-0045 5YR MAINTENANCE

Enclosed are the results of analyses for samples received by the laboratory on 10/17/13 10:40.

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

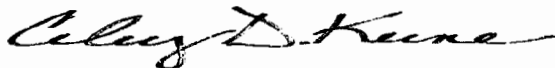
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

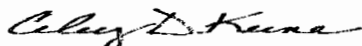
Analytical Results For:Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949Reported:
19-Nov-13 15:11

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL 3 - A	H302515-01	Soil	16-Oct-13 13:35	17-Oct-13 10:40
CELL 3 - B	H302515-02	Soil	16-Oct-13 14:15	17-Oct-13 10:40
CELL 3 - C	H302515-03	Soil	16-Oct-13 15:10	17-Oct-13 10:40
CELL 3 - D	H302515-04	Soil	16-Oct-13 16:00	17-Oct-13 10:40

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

CELL 3 - A
H302515-01 (Soil)

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

Chloride	ND		16.0	mg/kg	4	3102109	AP	22-Oct-13	4500-Cl-B	
pH*	7.71		0.100	pH Units	1	3102204	AP	22-Oct-13	9045	
Phenols	0.9		0.5	mg/kg dry wt.	1	3111905	CK	05-Nov-13	EPA9065	GAL
Sulfate	175		100	mg/kg	10	3102302	AP	23-Oct-13	375.4	

Radionuclides
SUB-RS

Radium-226	0.5 ± 0.1			pCi/gram	1	3111906	CK	31-Oct-13	GammaRay HPGE	
Radium-228	ND		0.40	pCi/gram	1	3111906	CK	31-Oct-13	GammaRay HPGE	
Total Radium	0.5 ± 0.1			pCi/gram	1	3111906	CK	31-Oct-13	GammaRay HPGE	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1	3101804	MS	18-Oct-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3101804	MS	18-Oct-13	8015B	
Surrogate: 1-Chlorooctane			115 %	65.2-140		3101804	MS	18-Oct-13	8015B	
Surrogate: 1-Chlorooctadecane			116 %	63.6-154		3101804	MS	18-Oct-13	8015B	

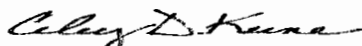
Polychlorinated Biphenyls by EPA Method 8082
SUB-SS

PCB 1016	ND		10.0	ug/kg	1	3111904	CK	24-Oct-13	8082	
PCB 1221	ND		10.0	ug/kg	1	3111904	CK	24-Oct-13	8082	
PCB 1232	ND		10.0	ug/kg	1	3111904	CK	24-Oct-13	8082	
PCB 1242	ND		10.0	ug/kg	1	3111904	CK	24-Oct-13	8082	
PCB 1248	ND		10.0	ug/kg	1	3111904	CK	24-Oct-13	8082	
PCB 1254	ND		10.0	ug/kg	1	3111904	CK	24-Oct-13	8082	
PCB 1260	ND		10.0	ug/kg	1	3111904	CK	24-Oct-13	8082	
Surrogate: Tetrachloro-meta-xylene			70.8 %	35-140		3111904	CK	24-Oct-13	8082	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

CELL 3 - A
H302515-01 (Soil)

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

Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Methylene chloride*	ND	0.400	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Toluene*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3102108	MS	22-Oct-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Surrogate: Dibromofluoromethane		97.0 %		70-130	3102108	MS	22-Oct-13	8260	
Surrogate: Toluene-d8		102 %		70-130	3102108	MS	22-Oct-13	8260	
Surrogate: 4-Bromofluorobenzene		117 %		70-130	3102108	MS	22-Oct-13	8260	

Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

CELL 3 - A
H302515-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Acenaphthene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Fluoranthene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Pyrene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Chrysene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Surrogate: Nitrobenzene-d5		51.1 %	16.1-91.8		3102102	MS	28-Oct-13	8270C	
Surrogate: 2-Fluorobiphenyl		52.6 %	27.2-92.9		3102102	MS	28-Oct-13	8270C	
Surrogate: Terphenyl-d14		57.4 %	21.3-96.1		3102102	MS	28-Oct-13	8270C	

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND	1.00	mg/kg dry	100	B310288	KLJ	30-Oct-13	EPA9012 B
% Dry Solids	99.3		%	1	B310280	JGS	30-Oct-13	EPA160.3

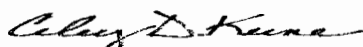
Soluble (DI Water Extraction)

Fluoride	1.78	0.800	mg/kg dry	4	B310283	ABP	29-Oct-13	4500-F- C
Nitrate/Nitrite as N	2.41	0.080	mg/kg dry	4	B310216	KLJ	23-Oct-13	EPA353.2
Nitrite as N	0.163	0.160	mg/kg dry	8	B310234	KLJ	25-Oct-13	EPA353.2

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF NM-01-0045 5YR MAIN
 Project Number: JAY DAN
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 19-Nov-13 15:11

CELL 3 - A
H302515-01 (Soil)

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

Iron	3040		5.00	mg/kg dry	100	B310226	JGS	24-Oct-13	EPA6010 B	
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Total Metals by ICPMS

Arsenic	0.788		0.500	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Barium	20.6		0.500	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Cadmium	0.166		0.100	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Chromium	2.41		1.00	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Copper	0.294		0.100	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Lead	2.36		0.500	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Manganese	43.5		0.500	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Uranium	0.104		0.100	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Zinc	6.11		1.00	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	

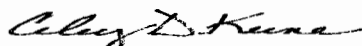
Total Mercury by CVAA

Mercury	ND		0.100	mg/kg dry	500	B310267	JGS	28-Oct-13	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

CELL 3 - B
H302515-02 (Soil)

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

Chloride	ND		16.0	mg/kg	4	3102109	AP	22-Oct-13	4500-Cl-B	
pH*	7.80		0.100	pH Units	1	3102204	AP	22-Oct-13	9045	
Phenols	1.2		0.5	mg/kg dry wt.	1	3111905	CK	05-Nov-13	EPA9065	GAL
Sulfate	ND		40.0	mg/kg	4	3102302	AP	23-Oct-13	375.4	

Radionuclides
SUB-RS

Radium-226	ND		0.20	pCi/gram	1	3111906	CK	31-Oct-13	GammaRay HPGE	
Radium-228	ND		0.30	pCi/gram	1	3111906	CK	31-Oct-13	GammaRay HPGE	
Total Radium	ND		0.30	pCi/gram	1	3111906	CK	31-Oct-13	GammaRay HPGE	

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND		10.0	mg/kg	1	3101804	MS	18-Oct-13	8015B	
DRO >C10-C28	ND		10.0	mg/kg	1	3101804	MS	18-Oct-13	8015B	
Surrogate: 1-Chlorooctane			109 %	65.2-140		3101804	MS	18-Oct-13	8015B	
Surrogate: 1-Chlorooctadecane			112 %	63.6-154		3101804	MS	18-Oct-13	8015B	

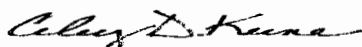
Polychlorinated Biphenyls by EPA Method 8082
SUB-SS

PCB 1016	ND		10.0	ug/kg	1	3111904	CK	24-Oct-13	8082	
PCB 1221	ND		10.0	ug/kg	1	3111904	CK	24-Oct-13	8082	
PCB 1232	ND		10.0	ug/kg	1	3111904	CK	24-Oct-13	8082	
PCB 1242	ND		10.0	ug/kg	1	3111904	CK	24-Oct-13	8082	
PCB 1248	ND		10.0	ug/kg	1	3111904	CK	24-Oct-13	8082	
PCB 1254	ND		10.0	ug/kg	1	3111904	CK	24-Oct-13	8082	
PCB 1260	ND		10.0	ug/kg	1	3111904	CK	24-Oct-13	8082	
Surrogate: Tetrachloro-meta-xylene			65.6 %	35-140		3111904	CK	24-Oct-13	8082	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

CELL 3 - B
H302515-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Methylene chloride*	ND		0.400	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Chloroform*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Carbon tetrachloride*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1,1-Trichloroethane*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Benzene*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,2-Dichloroethane*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Trichloroethene*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Toluene*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Tetrachloroethene*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1,2-Trichloroethane*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,2-Dibromoethane*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Ethylbenzene*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
m-p Xylenes*	ND		0.100	mg/kg	50	3102108	MS	22-Oct-13	8260	
o-Xylene*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Total Xylenes*	ND		0.150	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1,2,2-Tetrachloroethane*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Naphthalene*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Surrogate: Dibromofluoromethane			102 %	70-130		3102108	MS	22-Oct-13	8260	
Surrogate: Toluene-d8			101 %	70-130		3102108	MS	22-Oct-13	8260	
Surrogate: 4-Bromofluorobenzene			115 %	70-130		3102108	MS	22-Oct-13	8260	

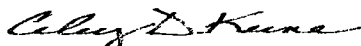
Semivolatile Organic Compounds by GCMS

Naphthalene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
1-Methylnaphthalene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Acenaphthylene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

CELL 3 - B H302515-02 (Soil)

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

Semivolatile Organic Compounds by GCMS

Acenaphthene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Fluorene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Phenanthrene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Anthracene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Carbazole	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Fluoranthene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Pyrene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Chrysene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Surrogate: Nitrobenzene-d5			49.5 %	16.1-91.8		3102102	MS	28-Oct-13	8270C	
Surrogate: 2-Fluorobiphenyl			51.2 %	27.2-92.9		3102102	MS	28-Oct-13	8270C	
Surrogate: Terphenyl-d14			58.4 %	21.3-96.1		3102102	MS	28-Oct-13	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	ND	1.00	mg/kg dry	100	B310288	KLJ	30-Oct-13	EPA9012.B
% Dry Solids	99.4		%	1	B310280	JGS	30-Oct-13	EPA160.3

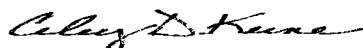
Soluble (DI Water Extraction)

Fluoride	4.85	0.800	mg/kg dry	4	B310283	ABP	29-Oct-13	4500-F-C
Nitrate/Nitrite as N	8.98	0.080	mg/kg dry	4	B310216	KLJ	23-Oct-13	EPA353.2
Nitrite as N	0.190	0.160	mg/kg dry	8	B310234	KLJ	25-Oct-13	EPA353.2

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 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF NM-01-0045 5YR MAIN
 Project Number: JAY DAN
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 19-Nov-13 15:11

CELL 3 - B
H302515-02 (Soil)

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

Iron	2510	5.00	mg/kg dry	100	B310226	JGS	24-Oct-13	EPA6010 B
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Total Metals by ICPMS

Arsenic	0.959	0.500	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A
Barium	26.6	0.500	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A
Cadmium	0.127	0.100	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A
Chromium	2.24	1.00	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A
Copper	0.120	0.100	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A
Lead	2.13	0.500	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A
Manganese	25.6	0.500	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A
Selenium	ND	1.00	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A
Silver	ND	0.100	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A
Uranium	0.107	0.100	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A
Zinc	4.73	1.00	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A

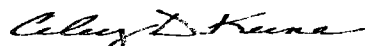
Total Mercury by CVAA

Mercury	ND	0.0970	mg/kg dry	485	B310267	JGS	28-Oct-13	EPA7471
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Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

CELL 3 - C
H302515-03 (Soil)

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

Chloride	ND	16.0	mg/kg	4	3102109	AP	22-Oct-13	4500-Cl-B		
pH*	7.40	0.100	pH Units	1	3102204	AP	22-Oct-13	9045		
Phenols	5.0	0.5	mg/kg dry wt.	1	3111905	CK	05-Nov-13	EPA9065		GAL
Sulfate	ND	40.0	mg/kg	4	3102302	AP	23-Oct-13	375.4		

Radionuclides
SUB-RS

Radium-226	0.3 ± 0.1		pCi/gram	1	3111906	CK	31-Oct-13	GammaRay HPGE		
Radium-228	ND	0.40	pCi/gram	1	3111906	CK	31-Oct-13	GammaRay HPGE		
Total Radium	0.3 ± 0.1		pCi/gram	1	3111906	CK	31-Oct-13	GammaRay HPGE		

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND	10.0	mg/kg	1	3101804	MS	18-Oct-13	8015B		
DRO >C10-C28	ND	10.0	mg/kg	1	3101804	MS	18-Oct-13	8015B		
Surrogate: 1-Chlorooctane		107 %	65.2-140		3101804	MS	18-Oct-13	8015B		
Surrogate: 1-Chlorooctadecane		115 %	63.6-154		3101804	MS	18-Oct-13	8015B		

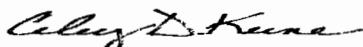
Polychlorinated Biphenyls by EPA Method 8082
SUB-SS

PCB 1016	ND	10.0	ug/kg	1	3111904	CK	24-Oct-13	8082		
PCB 1221	ND	10.0	ug/kg	1	3111904	CK	24-Oct-13	8082		
PCB 1232	ND	10.0	ug/kg	1	3111904	CK	24-Oct-13	8082		
PCB 1242	ND	10.0	ug/kg	1	3111904	CK	24-Oct-13	8082		
PCB 1248	ND	10.0	ug/kg	1	3111904	CK	24-Oct-13	8082		
PCB 1254	ND	10.0	ug/kg	1	3111904	CK	24-Oct-13	8082		
PCB 1260	ND	10.0	ug/kg	1	3111904	CK	24-Oct-13	8082		
Surrogate: Tetrachloro-meta-xylene		68.6 %	35-140		3111904	CK	24-Oct-13	8082		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

CELL 3 - C
H302515-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Methylene chloride*	ND	0.400	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Toluene*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3102108	MS	22-Oct-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Surrogate: Dibromofluoromethane		99.4 %	70-130		3102108	MS	22-Oct-13	8260	
Surrogate: Toluene-d8		100 %	70-130		3102108	MS	22-Oct-13	8260	
Surrogate: 4-Bromofluorobenzene		114 %	70-130		3102108	MS	22-Oct-13	8260	

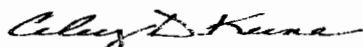
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

CELL 3 - C
H302515-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Acenaphthene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Fluoranthene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Pyrene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Chrysene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Surrogate: Nitrobenzene-d5		45.7 %	16.1-91.8		3102102	MS	28-Oct-13	8270C	
Surrogate: 2-Fluorobiphenyl		48.9 %	27.2-92.9		3102102	MS	28-Oct-13	8270C	
Surrogate: Terphenyl-d14		60.8 %	21.3-96.1		3102102	MS	28-Oct-13	8270C	

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND	1.00	mg/kg dry	100	B310288	KLJ	30-Oct-13	EPA9012 B	
% Dry Solids	97.2		%	1	B310280	JGS	30-Oct-13	EPA160.3	

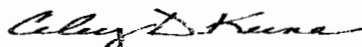
Soluble (DI Water Extraction)

Fluoride	1.18	0.800	mg/kg dry	4	B310283	ABP	29-Oct-13	4500-F- C	
Nitrate/Nitrite as N	35.3	0.800	mg/kg dry	40	B310216	KLJ	23-Oct-13	EPA353.2	
Nitrite as N	0.279	0.160	mg/kg dry	8	B310234	KLJ	25-Oct-13	EPA353.2	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF NM-01-0045 5YR MAIN
 Project Number: JAY DAN
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 19-Nov-13 15:11

CELL 3 - C
H302515-03 (Soil)

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

Iron	6900		5.00	mg/kg dry	100	B310226	JGS	24-Oct-13	EPA6010 B	
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Total Metals by ICPMS

Arsenic	2.58		0.500	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Barium	48.0		0.500	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Cadmium	0.292		0.100	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Chromium	6.27		1.00	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Copper	1.98		0.100	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Lead	5.49		0.500	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Manganese	64.7		0.500	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Uranium	0.183		0.100	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Zinc	14.0		1.00	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	

Total Mercury by CVAA

Mercury	ND		0.0970	mg/kg dry	485	B310267	JGS	28-Oct-13	EPA7471	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

CELL 3 - D
H302515-04 (Soil)

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

Chloride	ND	16.0	mg/kg	4	3102109	AP	22-Oct-13	4500-Cl-B		
pH*	7.24	0.100	pH Units	1	3102204	AP	22-Oct-13	9045		
Phenols	2.1	0.5	mg/kg dry wt.	1	3111905	CK	05-Nov-13	EPA9065		GAL
Sulfate	ND	100	mg/kg	10	3102302	AP	23-Oct-13	375.4		

Radionuclides
SUB-RS

Radium-226	0.4 ± 0.1		pCi/gram	1	3111906	CK	31-Oct-13	GammaRay HPGE		
Radium-228	ND	0.40	pCi/gram	1	3111906	CK	31-Oct-13	GammaRay HPGE		
Total Radium	0.4 ± 0.1		pCi/gram	1	3111906	CK	31-Oct-13	GammaRay HPGE		

Petroleum Hydrocarbons by GC FID

GRO C6-C10	ND	10.0	mg/kg	1	3101804	MS	18-Oct-13	8015B		
DRO >C10-C28	ND	10.0	mg/kg	1	3101804	MS	18-Oct-13	8015B		
Surrogate: 1-Chlorooctane		109 %	65.2-140		3101804	MS	18-Oct-13	8015B		
Surrogate: 1-Chlorooctadecane		113 %	63.6-154		3101804	MS	18-Oct-13	8015B		

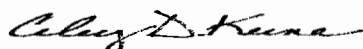
Polychlorinated Biphenyls by EPA Method 8082
SUB-SS

PCB 1016	ND	10.0	ug/kg	1	3111904	CK	24-Oct-13	8082		
PCB 1221	ND	10.0	ug/kg	1	3111904	CK	24-Oct-13	8082		
PCB 1232	ND	10.0	ug/kg	1	3111904	CK	24-Oct-13	8082		
PCB 1242	ND	10.0	ug/kg	1	3111904	CK	24-Oct-13	8082		
PCB 1248	ND	10.0	ug/kg	1	3111904	CK	24-Oct-13	8082		
PCB 1254	ND	10.0	ug/kg	1	3111904	CK	24-Oct-13	8082		
PCB 1260	ND	10.0	ug/kg	1	3111904	CK	24-Oct-13	8082		
Surrogate: Tetrachloro-meta-xylene		69.0 %	35-140		3111904	CK	24-Oct-13	8082		

Cardinal Laboratories

*=Accredited Analyte

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Analytical Results For:

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 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF NM-01-0045 5YR MAIN
 Project Number: JAY DAN
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 19-Nov-13 15:11

CELL 3 - D
H302515-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1-Dichloroethene*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Methylene chloride*	ND		0.400	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1-Dichloroethane*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Chloroform*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Carbon tetrachloride*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1,1-Trichloroethane*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Benzene*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,2-Dichloroethane*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Trichloroethene*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Toluene*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Tetrachloroethene*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1,2-Trichloroethane*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,2-Dibromoethane*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Ethylbenzene*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
m-p Xylenes*	ND		0.100	mg/kg	50	3102108	MS	22-Oct-13	8260	
o-Xylene*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Total Xylenes*	ND		0.150	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1,2,2-Tetrachloroethane*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Naphthalene*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Surrogate: Dibromofluoromethane			99.3 %	70-130		3102108	MS	22-Oct-13	8260	
Surrogate: Toluene-d8			96.4 %	70-130		3102108	MS	22-Oct-13	8260	
Surrogate: 4-Bromofluorobenzene			112 %	70-130		3102108	MS	22-Oct-13	8260	


Semivolatile Organic Compounds by GCMS

Naphthalene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
2-Methylnaphthalene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
1-Methylnaphthalene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Acenaphthylene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF NM-01-0045 5YR MAIN
 Project Number: JAY DAN
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 19-Nov-13 15:11

CELL 3 - D
H302515-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Acenaphthene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Fluorene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Phenanthrene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Anthracene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Carbazole	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Fluoranthene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Pyrene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[a]anthracene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Chrysene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[b]fluoranthene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[k]fluoranthene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[a]pyrene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Indeno[1,2,3-cd]pyrene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Dibenz[a,h]anthracene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[g,h,i]perylene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Surrogate: Nitrobenzene-d5			46.8 %	16.1-91.8		3102102	MS	28-Oct-13	8270C	
Surrogate: 2-Fluorobiphenyl			49.7 %	27.2-92.9		3102102	MS	28-Oct-13	8270C	
Surrogate: Terphenyl-d14			56.2 %	21.3-96.1		3102102	MS	28-Oct-13	8270C	

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND		1.00	mg/kg dry	100	B310288	KLJ	30-Oct-13	EPA9012.B	
% Dry Solids	99.6			%	1	B310280	JGS	30-Oct-13	EPA160.3	

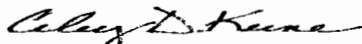
Soluble (DI Water Extraction)

Fluoride	ND		0.800	mg/kg dry	4	B310283	ABP	29-Oct-13	4500-F- C	
Nitrate/Nitrite as N	1.17		0.080	mg/kg dry	4	B310216	KLJ	23-Oct-13	EPA353.2	
Nitrite as N	0.221		0.160	mg/kg dry	8	B310234	KLJ	25-Oct-13	EPA353.2	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

CELL 3 - D
H302515-04 (Soil)

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

Green Analytical Laboratories
Total Metals by ICP

Iron	2310		5.00	mg/kg dry	100	B310226	JGS	24-Oct-13	EPA6010 B	
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Total Metals by ICPMS

Arsenic	0.826		0.500	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Barium	13.0		0.500	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Cadmium	0.124		0.100	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Chromium	1.76		1.00	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Copper	ND		0.100	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Lead	2.27		0.500	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Manganese	23.1		0.500	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Selenium	ND		1.00	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Silver	ND		0.100	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Uranium	ND		0.100	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	
Zinc	1.91		1.00	mg/kg dry	1000	B310225	JGS	24-Oct-13	6020 A	

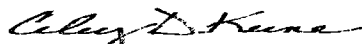
Total Mercury by CVAA

Mercury	ND		0.0952	mg/kg dry	476	B310267	JGS	28-Oct-13	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3102109 - 1:4 DI Water
Blank (3102109-BLK1)

Prepared & Analyzed: 21-Oct-13

Chloride ND 16.0 mg/kg

LCS (3102109-BS1)

Prepared & Analyzed: 21-Oct-13

Chloride 432 16.0 mg/kg 400 108 80-120

LCS Dup (3102109-BSD1)

Prepared & Analyzed: 21-Oct-13

Chloride 400 16.0 mg/kg 400 100 80-120 7.69 20

Batch 3102204 - NO PREP
LCS (3102204-BS1)

Prepared & Analyzed: 22-Oct-13

pH 7.04 pH Units 7.00 101 90-110

Duplicate (3102204-DUP1)

Source: H302515-01

Prepared & Analyzed: 22-Oct-13

pH 7.86 0.100 pH Units 7.71 1.93 20

Batch 3102302 - General Prep - Wet Chem
Blank (3102302-BLK1)

Prepared & Analyzed: 23-Oct-13

Sulfate ND 10.0 mg/kg

LCS (3102302-BS1)

Prepared & Analyzed: 23-Oct-13

Sulfate 21.2 10.0 mg/kg 20.0 106 80-120

LCS Dup (3102302-BSD1)


Prepared & Analyzed: 23-Oct-13

Sulfate 20.8 10.0 mg/kg 20.0 104 80-120 2.24 20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF NM-01-0045 5YR MAIN
 Project Number: JAY DAN
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 19-Nov-13 15:11

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3111905 - General Prep
Blank (3111905-BLK1)

Prepared & Analyzed: 05-Nov-13

Phenols ND 0.5 mg/kg dry wt.

LCS (3111905-BS1)

Prepared & Analyzed: 05-Nov-13

Phenols 0.4 mg/kg 0.400 91.5 70-130

Matrix Spike (3111905-MS1)

Source: H302515-01

Prepared & Analyzed: 05-Nov-13

Phenols 4.9 mg/kg 4.08 0.9 96.3 70-130

Matrix Spike Dup (3111905-MSD1)

Source: H302515-01

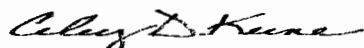
Prepared & Analyzed: 05-Nov-13

Phenols 4.4 mg/kg 4.08 0.9 85.6 70-130 9.46 20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

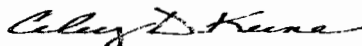
Petroleum Hydrocarbons by GC FID - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3101804 - General Prep - Organics										
Blank (3101804-BLK1)				Prepared & Analyzed: 18-Oct-13						
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	62.5		mg/kg	50.0		125	65.2-140			
Surrogate: 1-Chlorooctadecane	65.1		mg/kg	50.0		130	63.6-154			
LCS (3101804-BS1)				Prepared & Analyzed: 18-Oct-13						
GRO C6-C10	204	10.0	mg/kg	200		102	66.4-124			
DRO >C10-C28	199	10.0	mg/kg	200		99.4	61.6-132			
Total TPH C6-C28	403	10.0	mg/kg	400		101	69.7-122			
Surrogate: 1-Chlorooctane	56.3		mg/kg	50.0		113	65.2-140			
Surrogate: 1-Chlorooctadecane	59.0		mg/kg	50.0		118	63.6-154			
LCS Dup (3101804-BSD1)				Prepared & Analyzed: 18-Oct-13						
GRO C6-C10	222	10.0	mg/kg	200		111	66.4-124	8.49	23.4	
DRO >C10-C28	217	10.0	mg/kg	200		108	61.6-132	8.56	23.1	
Total TPH C6-C28	439	10.0	mg/kg	400		110	69.7-122	8.52	20.6	
Surrogate: 1-Chlorooctane	63.3		mg/kg	50.0		127	65.2-140			
Surrogate: 1-Chlorooctadecane	66.4		mg/kg	50.0		133	63.6-154			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

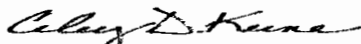
Polychlorinated Biphenyls by EPA Method 8082 - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3111904 - 3550									
Blank (3111904-BLK1)									
Prepared: 17-Oct-13 Analyzed: 24-Oct-13									
PCB 1016	ND	10.0	ug/kg						
PCB 1221	ND	10.0	ug/kg						
PCB 1232	ND	10.0	ug/kg						
PCB 1242	ND	10.0	ug/kg						
PCB 1248	ND	10.0	ug/kg						
PCB 1254	ND	10.0	ug/kg						
PCB 1260	ND	10.0	ug/kg						
Surrogate: Tetrachloro-meta-xylene	7.87		ug/L	10.0		78.7	35-140		
LCS (3111904-BS1)									
Prepared: 17-Oct-13 Analyzed: 24-Oct-13									
PCB 1016	104		ug/L	100		104	40-130		
PCB 1260	104		ug/L	100		104	40-130		
Surrogate: Tetrachloro-meta-xylene	61.0		ug/L	10.0		61.0	35-140		
Matrix Spike (3111904-MS1)									
Source: H302515-01 Prepared: 17-Oct-13 Analyzed: 24-Oct-13									
PCB 1016	97.5		ug/L	100	ND	97.5	40-130		
PCB 1260	93.1		ug/L	100	ND	93.1	40-130		
Surrogate: Tetrachloro-meta-xylene	70.5		ug/L	10.0		70.5	35-140		
Matrix Spike Dup (3111904-MSD1)									
Source: H302515-01 Prepared: 17-Oct-13 Analyzed: 24-Oct-13									
PCB 1016	85.0		ug/L	100	ND	85.0	40-130	13.7	30
PCB 1260	103		ug/L	100	ND	103	40-130	10.1	30
Surrogate: Tetrachloro-meta-xylene	72.6		ug/L	10.0		72.6	35-140		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3102108 - Volatiles
Blank (3102108-BLK1)

Prepared: 21-Oct-13 Analyzed: 22-Oct-13

Vinyl chloride	ND	0.0500	mg/kg							
1,1-Dichloroethene	ND	0.0500	mg/kg							
Methylene chloride	ND	0.0500	mg/kg							
1,1-Dichloroethane	ND	0.0500	mg/kg							
Chloroform	ND	0.0500	mg/kg							
Carbon tetrachloride	ND	0.0500	mg/kg							
1,1,1-Trichloroethane	ND	0.0500	mg/kg							
Benzene	ND	0.0500	mg/kg							
1,2-Dichloroethane	ND	0.0500	mg/kg							
Trichloroethene	ND	0.0500	mg/kg							
Toluene	ND	0.0500	mg/kg							
Tetrachloroethene	ND	0.0500	mg/kg							
1,1,2-Trichloroethane	ND	0.0500	mg/kg							
1,2-Dibromoethane	ND	0.0500	mg/kg							
Ethylbenzene	ND	0.0500	mg/kg							
m-p Xylenes	ND	0.100	mg/kg							
o-Xylene	ND	0.0500	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg							
Naphthalene	ND	0.0500	mg/kg							
Surrogate: Dibromofluoromethane	0.511		mg/kg	0.500		102	70-130			
Surrogate: Toluene-d8	0.502		mg/kg	0.500		100	70-130			
Surrogate: 4-Bromofluorobenzene	0.564		mg/kg	0.500		113	70-130			

LCS (3102108-BS1)

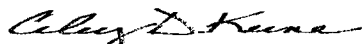
Prepared: 21-Oct-13 Analyzed: 22-Oct-13

Vinyl chloride	0.464	0.0500	mg/kg	0.400		116	70-130			
1,1-Dichloroethene	0.400	0.0500	mg/kg	0.400		100	70-130			
Methylene chloride	0.386	0.0500	mg/kg	0.400		96.5	70-130			
1,1-Dichloroethane	0.432	0.0500	mg/kg	0.400		108	70-130			
Chloroform	0.386	0.0500	mg/kg	0.400		96.5	70-130			
Carbon tetrachloride	0.414	0.0500	mg/kg	0.400		103	70-130			
1,1,1-Trichloroethane	0.413	0.0500	mg/kg	0.400		103	70-130			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3102108 - Volatiles
LCS (3102108-BS1)

Prepared: 21-Oct-13 Analyzed: 22-Oct-13

Benzene	0.364	0.0500	mg/kg	0.400		91.1	70-130			
1,2-Dichloroethane	0.419	0.0500	mg/kg	0.400		105	70-130			
Trichloroethene	0.410	0.0500	mg/kg	0.400		102	70-130			
Toluene	0.362	0.0500	mg/kg	0.400		90.4	70-130			
Tetrachloroethene	0.368	0.0500	mg/kg	0.400		92.0	70-130			
1,1,2-Trichloroethane	0.351	0.0500	mg/kg	0.400		87.7	70-130			
1,2-Dibromoethane	0.349	0.0500	mg/kg	0.400		87.2	70-130			
Ethylbenzene	0.375	0.0500	mg/kg	0.400		93.8	70-130			
m-p Xylenes	0.762	0.100	mg/kg				70-130			
o-Xylene	0.361	0.0500	mg/kg	0.400		90.3	70-130			
Total Xylenes	1.12	0.150	mg/kg	1.20		93.6	70-130			
1,1,2,2-Tetrachloroethane	0.349	0.0500	mg/kg	0.400		87.2	70-130			
Naphthalene	0.375	0.0500	mg/kg	0.400		93.6	70-130			
Surrogate: Dibromofluoromethane	0.517		mg/kg	0.500		103	70-130			
Surrogate: Toluene-d8	0.506		mg/kg	0.500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.562		mg/kg	0.500		112	70-130			

LCS Dup (3102108-BSD1)

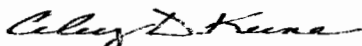
Prepared: 21-Oct-13 Analyzed: 22-Oct-13

Vinyl chloride	0.407	0.0500	mg/kg	0.400		102	70-130	13.2	20	
1,1-Dichloroethene	0.401	0.0500	mg/kg	0.400		100	70-130	0.0899	20	
Methylene chloride	0.393	0.0500	mg/kg	0.400		98.2	70-130	1.71	20	
1,1-Dichloroethane	0.394	0.0500	mg/kg	0.400		98.5	70-130	9.11	20	
Chloroform	0.360	0.0500	mg/kg	0.400		90.0	70-130	6.99	20	
Carbon tetrachloride	0.339	0.0500	mg/kg	0.400		84.6	70-130	19.9	20	
1,1,1-Trichloroethane	0.349	0.0500	mg/kg	0.400		87.2	70-130	17.0	20	
Benzene	0.337	0.0500	mg/kg	0.400		84.2	70-130	7.79	20	
1,2-Dichloroethane	0.401	0.0500	mg/kg	0.400		100	70-130	4.42	20	
Trichloroethene	0.350	0.0500	mg/kg	0.400		87.4	70-130	15.8	20	
Toluene	0.310	0.0500	mg/kg	0.400		77.5	70-130	15.4	20	
Tetrachloroethene	0.443	0.0500	mg/kg	0.400		111	70-130	18.3	20	
1,1,2-Trichloroethane	0.346	0.0500	mg/kg	0.400		86.4	70-130	1.52	20	
1,2-Dibromoethane	0.330	0.0500	mg/kg	0.400		82.6	70-130	5.41	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF NM-01-0045 5YR MAIN
 Project Number: JAY DAN
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 19-Nov-13 15:11

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3102108 - Volatiles									
LCS Dup (3102108-BSD1)									
Prepared: 21-Oct-13 Analyzed: 22-Oct-13									
Ethylbenzene	0.310	0.0500	mg/kg	0.400		77.4	70-130	19.2	20
m-p Xylenes	0.628	0.100	mg/kg				70-130	19.3	20
o-Xylene	0.305	0.0500	mg/kg	0.400		76.3	70-130	16.8	20
Total Xylenes	0.933	0.150	mg/kg	1.20		77.8	70-130	18.5	20
1,1,2,2-Tetrachloroethane	0.324	0.0500	mg/kg	0.400		81.0	70-130	7.26	20
Naphthalene	0.307	0.0500	mg/kg	0.400		76.8	70-130	19.7	20
Surrogate: Dibromofluoromethane	0.514		mg/kg	0.500		103	70-130		
Surrogate: Toluene-d8	0.502		mg/kg	0.500		100	70-130		
Surrogate: 4-Bromofluorobenzene	0.552		mg/kg	0.500		110	70-130		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

Semivolatile Organic Compounds by GCMS - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3102102 - SW846-3510
Blank (3102102-BLK1)

Prepared: 21-Oct-13 Analyzed: 28-Oct-13

Naphthalene	ND	0.040	mg/kg							
2-Methylnaphthalene	ND	0.040	mg/kg							
1-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Phenanthrene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Carbazole	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Benzo[b]fluoranthene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Surrogate: Nitrobenzene-d5	0.984		mg/kg	2.00		49.2	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	1.02		mg/kg	2.00		50.9	27.2-92.9			
Surrogate: Terphenyl-d14	1.25		mg/kg	2.00		62.4	21.3-96.1			

LCS (3102102-BS1)

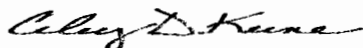
Prepared: 21-Oct-13 Analyzed: 28-Oct-13

Naphthalene	0.255	0.040	mg/kg	0.400		63.7	5.46-157			
2-Methylnaphthalene	0.259	0.040	mg/kg	0.400		64.8	16.1-146			
Acenaphthylene	0.242	0.040	mg/kg	0.400		60.4	21.6-144			
Acenaphthene	0.245	0.040	mg/kg	0.400		61.3	27-143			
Fluorene	0.256	0.040	mg/kg	0.400		63.9	30.9-138			
Phenanthrene	0.251	0.040	mg/kg	0.400		62.7	38.6-149			
Anthracene	0.250	0.040	mg/kg	0.400		62.5	36.1-149			
Carbazole	0.255	0.040	mg/kg	0.400		63.8	29.8-144			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3102102 - SW846-3510

LCS (3102102-BS1)

Prepared: 21-Oct-13 Analyzed: 28-Oct-13

Fluoranthene	0.268	0.040	mg/kg	0.400		67.0	34.6-148			
Pyrene	0.253	0.040	mg/kg	0.400		63.2	24.8-154			
Benzo[a]anthracene	0.244	0.040	mg/kg	0.400		61.1	0-179			
Chrysene	0.252	0.040	mg/kg	0.400		63.0	35.1-150			
Benzo[b]fluoranthene	0.236	0.040	mg/kg	0.400		59.0	17.6-158			
Benzo[k]fluoranthene	0.243	0.040	mg/kg	0.400		60.8	10.6-169			
Benzo[a]pyrene	0.243	0.040	mg/kg	0.400		60.7	2.25-166			
Indeno[1,2,3-cd]pyrene	0.230	0.040	mg/kg	0.400		57.4	0-181			
Dibenz[a,h]anthracene	0.225	0.040	mg/kg	0.400		56.2	2.49-177			
Benzo[g,h,i]perylene	0.218	0.040	mg/kg	0.400		54.6	0-173			
Surrogate: Nitrobenzene-d5	0.975		mg/kg	2.00		48.7	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	1.01		mg/kg	2.00		50.3	27.2-92.9			
Surrogate: Terphenyl-d14	1.14		mg/kg	2.00		57.1	21.3-96.1			

LCS Dup (3102102-BSD1)

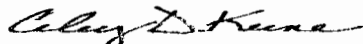
Prepared: 21-Oct-13 Analyzed: 28-Oct-13

Naphthalene	0.255	0.040	mg/kg	0.400		63.6	5.46-157	0.0550	6.7	
2-Methylnaphthalene	0.262	0.040	mg/kg	0.400		65.5	16.1-146	1.07	8.99	
Acenaphthylene	0.243	0.040	mg/kg	0.400		60.8	21.6-144	0.689	14.6	
Acenaphthene	0.250	0.040	mg/kg	0.400		62.6	27-143	2.12	6.99	
Fluorene	0.257	0.040	mg/kg	0.400		64.3	30.9-138	0.635	13.9	
Phenanthrene	0.252	0.040	mg/kg	0.400		63.1	38.6-149	0.509	14.6	
Anthracene	0.245	0.040	mg/kg	0.400		61.4	36.1-149	1.84	18.5	
Carbazole	0.252	0.040	mg/kg	0.400		63.1	29.8-144	1.12	23.4	
Fluoranthene	0.264	0.040	mg/kg	0.400		66.1	34.6-148	1.43	19.7	
Pyrene	0.257	0.040	mg/kg	0.400		64.2	24.8-154	1.58	23	
Benzo[a]anthracene	0.244	0.040	mg/kg	0.400		61.0	0-179	0.193	32.5	
Chrysene	0.246	0.040	mg/kg	0.400		61.4	35.1-150	2.53	19.4	
Benzo[b]fluoranthene	0.237	0.040	mg/kg	0.400		59.3	17.6-158	0.435	31.4	
Benzo[k]fluoranthene	0.245	0.040	mg/kg	0.400		61.3	10.6-169	0.774	44.6	
Benzo[a]pyrene	0.242	0.040	mg/kg	0.400		60.5	2.25-166	0.367	60.5	
Indeno[1,2,3-cd]pyrene	0.230	0.040	mg/kg	0.400		57.4	0-181	0.00436	77	
Dibenz[a,h]anthracene	0.228	0.040	mg/kg	0.400		57.1	2.49-177	1.51	63.3	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949Reported:
19-Nov-13 15:11**Semivolatile Organic Compounds by GCMS - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3102102 - SW846-3510**LCS Dup (3102102-BSD1)**

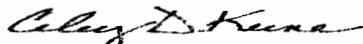
Prepared: 21-Oct-13 Analyzed: 28-Oct-13

Benzo[g,h,i]perylene	0.220	0.040	mg/kg	0.400		54.9	0-173	0.612	77.4	
Surrogate: Nitrobenzene-d5	0.972		mg/kg	2.00		48.6	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	0.988		mg/kg	2.00		49.4	27.2-92.9			
Surrogate: Terphenyl-d14	1.14		mg/kg	2.00		56.8	21.3-96.1			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

General Chemistry - Quality Control**Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B310288 - Cyanide Preparation**Blank (B310288-BLK1)**

Prepared: 28-Oct-13 Analyzed: 30-Oct-13

Cyanide, Total ND 0.0100 mg/kg wet

LCS (B310288-BS1)

Prepared: 28-Oct-13 Analyzed: 30-Oct-13

Cyanide, Total 0.103 0.0100 mg/kg wet 0.100 103 90-110

LCS Dup (B310288-BSD1)

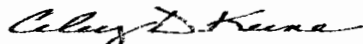
Prepared: 28-Oct-13 Analyzed: 30-Oct-13

Cyanide, Total 0.104 0.0100 mg/kg wet 0.100 104 90-110 0.966 20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

Soluble (DI Water Extraction) - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B310216 - General Prep - Wet Chem

Blank (B310216-BLK1)		Prepared: 22-Oct-13 Analyzed: 23-Oct-13								
Nitrate/Nitrite as N	ND	0.020	mg/kg wet							
LCS (B310216-BS1)		Prepared: 22-Oct-13 Analyzed: 23-Oct-13								
Nitrate/Nitrite as N	1.05	0.020	mg/kg wet	1.00		105	90-110			
LCS Dup (B310216-BSD1)		Prepared: 22-Oct-13 Analyzed: 23-Oct-13								
Nitrate/Nitrite as N	1.04	0.020	mg/kg wet	1.00		104	90-110	0.957	20	

Batch B310234 - General Prep - Wet Chem

Blank (B310234-BLK1)		Prepared & Analyzed: 25-Oct-13								
Nitrite as N	ND	0.020	mg/kg wet							
LCS (B310234-BS1)		Prepared & Analyzed: 25-Oct-13								
Nitrite as N	0.502	0.020	mg/kg wet	0.500		100	90-110			
LCS Dup (B310234-BSD1)		Prepared & Analyzed: 25-Oct-13								
Nitrite as N	0.519	0.020	mg/kg wet	0.500		104	90-110	3.33	20	

Batch B310283 - General Prep - Wet Chem

Blank (B310283-BLK1)		Prepared & Analyzed: 29-Oct-13								
Fluoride	ND	0.200	mg/kg wet							
LCS (B310283-BS1)		Prepared & Analyzed: 29-Oct-13								
Fluoride	0.985	0.200	mg/kg wet	1.00		98.5	85-115			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949Reported:
19-Nov-13 15:11**Soluble (DI Water Extraction) - Quality Control****Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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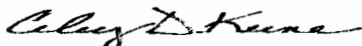
Batch B310283 - General Prep - Wet Chem**LCS Dup (B310283-BSD1)****Prepared & Analyzed: 29-Oct-13**

Fluoride	0.984	0.200	mg/kg wet	1.00		98.4	85-115	0.102	20	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF NM-01-0045 5YR MAIN
 Project Number: JAY DAN
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 19-Nov-13 15:11

Total Metals by ICP - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B310226 - EPA 3050
Blank (B310226-BLK1)

Prepared: 23-Oct-13 Analyzed: 24-Oct-13

Iron	0.160	0.050	mg/kg dry							B1
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LCS (B310226-BS1)

Prepared: 23-Oct-13 Analyzed: 24-Oct-13

Iron	3.99	0.050	mg/kg dry	4.00		99.8	85-115			
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LCS Dup (B310226-BSD1)

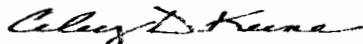
Prepared: 23-Oct-13 Analyzed: 24-Oct-13

Iron	3.99	0.050	mg/kg dry	4.00		99.9	85-115	0.0603	20	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

Total Metals by ICPMS - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B310225 - EPA 3050M

Blank (B310225-BLK1)				Prepared: 23-Oct-13 Analyzed: 24-Oct-13						
Arsenic	ND	0.0005	mg/kg dry							
Barium	ND	0.0005	mg/kg dry							
Selenium	ND	0.0010	mg/kg dry							
Silver	ND	0.0001	mg/kg dry							
Chromium	ND	0.0010	mg/kg dry							
Copper	ND	0.0001	mg/kg dry							
Manganese	ND	0.0005	mg/kg dry							
Cadmium	ND	0.0001	mg/kg dry							
Uranium	ND	0.0001	mg/kg dry							
Lead	ND	0.0005	mg/kg dry							
Zinc	0.0022	0.0010	mg/kg dry							B1

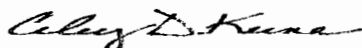
LCS (B310225-BS1)				Prepared: 23-Oct-13 Analyzed: 24-Oct-13						
Uranium	0.0480	0.0001	mg/kg dry	0.0500	95.9	85-115				
Zinc	0.0454	0.0010	mg/kg dry	0.0500	90.9	80-120				
Arsenic	0.0546	0.0005	mg/kg dry	0.0500	109	85-115				
Selenium	0.269	0.0010	mg/kg dry	0.250	108	85-115				
Copper	0.0510	0.0001	mg/kg dry	0.0500	102	85-115				
Silver	0.0608	0.0001	mg/kg dry	0.0500	122	85-115				BS1
Manganese	0.0479	0.0005	mg/kg dry	0.0500	95.7	85-115				
Cadmium	0.0524	0.0001	mg/kg dry	0.0500	105	85-115				
Barium	0.0501	0.0005	mg/kg dry	0.0500	100	85-115				
Lead	0.0511	0.0005	mg/kg dry	0.0500	102	85-115				
Chromium	0.0508	0.0010	mg/kg dry	0.0500	102	85-115				

LCS Dup (B310225-BSD1)				Prepared: 23-Oct-13 Analyzed: 24-Oct-13						
Zinc	0.0466	0.0010	mg/kg dry	0.0500	93.2	80-120	2.54	20		
Silver	0.0597	0.0001	mg/kg dry	0.0500	119	85-115	1.81	20		BS1
Cadmium	0.0510	0.0001	mg/kg dry	0.0500	102	85-115	2.66	20		
Copper	0.0536	0.0001	mg/kg dry	0.0500	107	85-115	4.85	20		
Uranium	0.0473	0.0001	mg/kg dry	0.0500	94.7	85-115	1.33	20		
Barium	0.0505	0.0005	mg/kg dry	0.0500	101	85-115	0.739	20		
Selenium	0.258	0.0010	mg/kg dry	0.250	103	85-115	4.09	20		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Nov-13 15:11

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B310225 - EPA 3050M**LCS Dup (B310225-BSD1)**

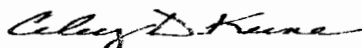
Prepared: 23-Oct-13 Analyzed: 24-Oct-13

Manganese	0.0492	0.0005	mg/kg dry	0.0500		98.5	85-115	2.81	20	
Chromium	0.0509	0.0010	mg/kg dry	0.0500		102	85-115	0.158	20	
Arsenic	0.0507	0.0005	mg/kg dry	0.0500		101	85-115	7.50	20	
Lead	0.0503	0.0005	mg/kg dry	0.0500		101	85-115	1.72	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF NM-01-0045 5YR MAIN
 Project Number: JAY DAN
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 19-Nov-13 15:11

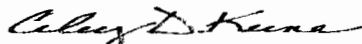
Total Mercury by CVAA - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch B310267 - EPA 7471									
Blank (B310267-BLK1)					Prepared & Analyzed: 28-Oct-13				
Mercury	ND	0.0002	mg/kg wet						
LCS (B310267-BS1)					Prepared & Analyzed: 28-Oct-13				
Mercury	0.0019	0.0002	mg/kg wet	0.00200	94.5	85-115			
LCS Dup (B310267-BSD1)					Prepared & Analyzed: 28-Oct-13				
Mercury	0.0019	0.0002	mg/kg wet	0.00200	95.8	85-115	1.31	20	

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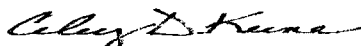
Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

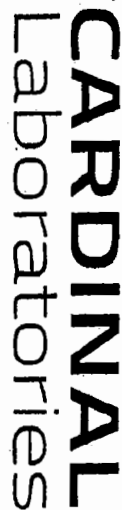
Z-01b	0.5 ± 0.1
Z-01a	0.4 ± 0.1
Z-01	0.3 ± 0.1
SUB-SS	Analysis subcontracted to SunStar Laboratories, Inc.
SUB-RS	Analysis subcontracted to Radiation Safety Engineering, Inc.
GAL	Analysis subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high. Will reanalyze per client request.
B1	Target analyte detected in method blank at or above method reporting limit. Sample concentration found to be 10 times above the concentration found in the method blank or less than the reporting limit.
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

Cardinal Laboratories***=Accredited Analyte**

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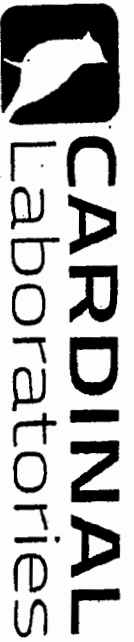


Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 37 of 39



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

203

101 East Marland, Hobbs, NM 88240
(575) 383-2326 FAX (575) 383-2476

Company Name: <u>Ellie's Consulting</u>		P.O. #:
Project Manager: <u>Ellie's Consulting</u>		Company:
Address:		Attn:
City:	State:	Zip:
Phone #:	Fax #:	Address:
Project #:	Project Owner: <u>D. Wilson</u>	City:
Project Name: <u>Sand Dam Leaking</u>	State: <u>N.M.</u>	State:
Project Location:	Phone #:	Zip:
Sample Name: <u>Ellie's Sand</u>	Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV
Lab I.D.	Sample I.D.	SAMPLING
1302515	1302515	
1	1302515-A	
2	1302515-B	
3	1302515-C	
4	1302515-D	
	(G)RAB OR (C)OMP.	
	# CONTAINERS	
	GROUNDWATER	
	WASTEWATER	
	SOIL	
	OIL	
	SLUDGE	
	OTHER:	
	ACID/BASE:	
	ICE / COOL	
	OTHER:	
	DATE	TIME
	19/16	13:55
	19/16	2:15
	19/16	3:10
	19/16	4:00
ANALYSIS REQUEST		
EDC		
DEE		
PCE		
TCE		
Methylene Chloride		
Chloroform		
EDB		
Trichloroethane		
Tetrachloroethane		
Vinyl Chloride		
Polycyclic Aromatic Hydrocarbons		

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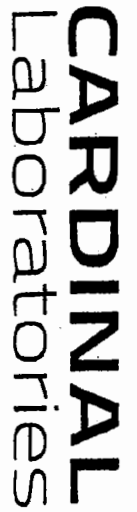
Delivered By: (Circle One) UPS Bus Other

Sample - UPS - Bus - Other: 2.60

Checked By: Ellie's Consulting

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:

Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

CU
L
CU

June 4, 2013

NMOCD Environmental
ATTN: Brad Jones
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Jay Dan Landfarm (NM-01-0045)
Semi-Annual Sampling
Cell 2 Five Year Monitoring

Mr. Jones:

Find within the semi-annual sampling for both the treatment zone and vadose zone as required and five year monitoring.

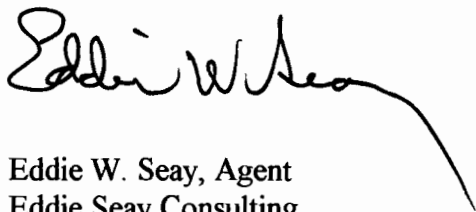
The treatment zone samples were taken at two to four inches of surface making one composite from four discrete samples for each cell, testing for TPH and Chloride.

The vadose zone samples were taken at approximately three feet below the natural surface level. There were four randomly selected samples composited from each cell, testing for BTEX, TPH and Chloride.

We are continuing to sample and analyze the "Five Year Monitoring" as rule 36 requires.

If you have any questions or need anything further, please call.

Sincerely,



Eddie W. Seay, Agent
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242
575-392-2236
seay04@leaco.net

cc: Jay Dan Landfarm

RECEIVED OGD
2013 JUN -6 P 2:01

May 07, 2013

Eddie Seay
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242

RE: JAY DAN LF (NM.01.0045)

Enclosed are the results of analyses for samples received by the laboratory on 04/30/13 9:20.

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

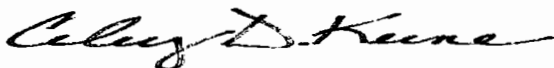
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 04/30/2013
Reported: 05/07/2013
Project Name: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Location: NW/SW SEC 32 T15 R35 LEA

Sampling Date: 04/29/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 1 - T (H301015-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1380	16.0	04/30/2013	ND	416	104	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2013	ND	194	97.1	200	4.64	
DRO >C10-C28	3380	10.0	05/01/2013	ND	192	96.2	200	5.81	

Surrogate: 1-Chlorooctane 93.6 % 65.2-140
Surrogate: 1-Chlorooctadecane 152 % 63.6-154

Sample ID: CELL 2 - T (H301015-02)


Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8080	16.0	04/30/2013	ND	416	104	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	05/01/2013	ND	194	97.1	200	4.64		
DRO >C10-C28	1270	10.0	05/01/2013	ND	192	96.2	200	5.81		

Surrogate: 1-Chlorooctane 94.2 % 65.2-140
Surrogate: 1-Chlorooctadecane 131 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 04/30/2013
Reported: 05/07/2013
Project Name: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Location: NW/SW SEC 32 T15 R35 LEA

Sampling Date: 04/29/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 3 - T (H301015-03)
Chloride, SM4500Cl-B
mg/kg
Analyzed By: DW

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	04/30/2013	ND	416	104	400	3.77	

TPH 8015M
mg/kg
Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2013	ND	194	97.1	200	4.64	
DRO >C10-C28	80.5	10.0	05/01/2013	ND	192	96.2	200	5.81	

Surrogate: 1-Chlorooctane 79.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 102 % 63.6-154

Sample ID: CELL 4 - T (H301015-04)
Chloride, SM4500Cl-B
mg/kg
Analyzed By: DW

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	04/30/2013	ND	416	104	400	0.00	

TPH 8015M
mg/kg
Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2013	ND	194	97.1	200	4.64	
DRO >C10-C28	382	10.0	05/01/2013	ND	192	96.2	200	5.81	

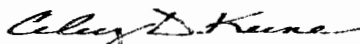
Surrogate: 1-Chlorooctane 79.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.5 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 04/30/2013
Reported: 05/07/2013
Project Name: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Location: NW/SW SEC 32 T15 R35 LEA

Sampling Date: 04/29/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 1 - V (H301015-05)

BTEX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2013	ND	1.99	99.4	2.00	9.39	
Toluene*	<0.050	0.050	05/02/2013	ND	1.79	89.6	2.00	9.05	
Ethylbenzene*	<0.050	0.050	05/02/2013	ND	1.90	95.2	2.00	9.42	
Total Xylenes*	<0.150	0.150	05/02/2013	ND	5.57	92.9	6.00	8.68	
Total BTEX	<0.300	0.300	05/02/2013	ND					

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

Chloride, SM4500C1-B			mg/kg		Analyzed By: DW				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/30/2013	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2013	ND	194	97.1	200	4.64	
DRO >C10-C28	<10.0	10.0	05/01/2013	ND	192	96.2	200	5.81	

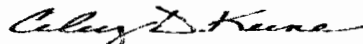
Surrogate: 1-Chlorooctane 94.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 Eddie Seay
 601 W. Illinois
 Hobbs NM, 88242
 Fax To: (505) 392-6949

 Received: 04/30/2013
 Reported: 05/07/2013
 Project Name: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Location: NW/SW SEC 32 T15 R35 LEA

 Sampling Date: 04/29/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: CELL 3 - V (H301015-06)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2013	ND	1.99	99.4	2.00	9.39	
Toluene*	<0.050	0.050	05/02/2013	ND	1.79	89.6	2.00	9.05	
Ethylbenzene*	<0.050	0.050	05/02/2013	ND	1.90	95.2	2.00	9.42	
Total Xylenes*	<0.150	0.150	05/02/2013	ND	5.57	92.9	6.00	8.68	
Total BTEX	<0.300	0.300	05/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/30/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2013	ND	194	97.1	200	4.64	
DRO >C10-C28	<10.0	10.0	05/01/2013	ND	192	96.2	200	5.81	

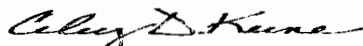
Surrogate: 1-Chlorooctane 79.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.7 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 04/30/2013
Reported: 05/07/2013
Project Name: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Location: NW/SW SEC 32 T15 R35 LEA

Sampling Date: 04/29/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 4 - V (H301015-07)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/02/2013	ND	1.99	99.4	2.00	9.39	
Toluene*	<0.050	0.050	05/02/2013	ND	1.79	89.6	2.00	9.05	
Ethylbenzene*	<0.050	0.050	05/02/2013	ND	1.90	95.2	2.00	9.42	
Total Xylenes*	<0.150	0.150	05/02/2013	ND	5.57	92.9	6.00	8.68	
Total BTEX	<0.300	0.300	05/02/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/30/2013	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/06/2013	ND	196	98.0	200	1.07	
DRO >C10-C28	<10.0	10.0	05/06/2013	ND	193	96.7	200	0.628	

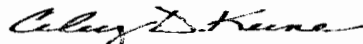
Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 04/30/2013
Reported: 05/07/2013
Project Name: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Location: NW/SW SEC 32 T15 R35 LEA

Sampling Date: 04/29/2013
Sampling Type: Water
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: JD - WW #1 (H301015-08)**Chloride, SM4500Cl-B**

mg/L

Analyzed By: DW

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	48.0	4.00	05/06/2013	ND	104	104	100	3.77	

TPH 8015M

mg/L

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1.00	1.00	05/06/2013	ND	53.3	107	50.0	3.33	
DRO >C10-C28	<1.00	1.00	05/06/2013	ND	50.7	101	50.0	3.01	
EXT DRO >C28-C35	<1.00	1.00	05/06/2013	ND	ND		0.00		

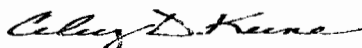
Surrogate: 1-Chlorooctane 94.3 % 48.7-164

Surrogate: 1-Chlorooctadecane 102 % 54.8-165

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

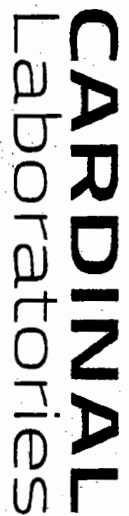
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476**

Company Name: Edwards & Kelly Consulting		P.O. #:	
Project Manager: Ellen Seay		Company:	
Address: 601 W. Illinois		Attn: [Signature]	
City: Chgo		Address:	
State: Ill Zip: 60642		City: Chgo	
Phone #: 2-22-36 Fax #: 2-6849		State: Ill Zip: 60642	
Project #: 504 Dan LC Project Owner: D. Watson		Phone #:	
Project Name: 504 Dan LC		Fax #:	
Project Location: 1515 W. 33rd St. R.35		Sample Name: Fill in	
FOR LAB USE ONLY		FOR LAB USE ONLY	
Lab I.D.	Sample I.D.		
H30D15			
1 C00 1-T	(G)RAB OR (C)ORE		
2 C00 2-T	# CONTAINERS		
3 C00 3-T	GROUNDWATER		
4 C00 4-T	WASTEWATER		
5 C00 1-V	SOIL		
6 C00 3-V	OIL		
7 C00 4-V	SLUDGE		
8 504 Dan LC #1	OTHER:		
	ACID/BASE:		
	ICE / COOL		
	OTHER:		
	DATE	TIME	
	4/29 7:20		
	4/29 7:45		
	4/29 8:15		
	4/29 8:50		
	4/29 9:35		
	4/29 10:10		
	4/29 10:55		
	4/29 9:00		
<p>PLEASE NOTE: Labels and Damages, Client's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Client within 30 days after completion of the applicable analysis. In no event shall Client be liable for incidental or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors, without proof of actual damages. The undersigned hereby certifies that the information provided on this form is true and correct to the best of their knowledge and belief.</p>		<p>ANALYSIS REQUEST</p>	
<p>Relinquished By: [Signature] Date: 4/30 Received By: [Signature]</p>		<p>REMARKS:</p>	
<p>Relinquished By: [Signature] Date: 4/30 Received By: [Signature]</p>		<p>Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:</p>	
<p>Delivered By: (Circle One) 3c Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Impact <input type="checkbox"/> Yes <input type="checkbox"/> No</p>		<p>Checked By: [Signature]</p>	
<p>Sampler - UPS - Bus - other: 3c</p>		<p>T: Travis Com</p>	
<p>Remarks: V. Under 30m</p>		<p></p>	



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

June 03, 2013

Eddie Seay

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

RE: JAY DAN LF NM-01-0045 5YR MAINTENANCE

Enclosed are the results of analyses for samples received by the laboratory on 04/30/13 9:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

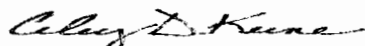
Reported:
03-Jun-13 15:58

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL 2 - A	H301016-01	Soil	29-Apr-13 12:45	30-Apr-13 09:20
CELL 2 - B	H301016-02	Soil	29-Apr-13 13:30	30-Apr-13 09:20
CELL 2 - C	H301016-03	Soil	29-Apr-13 14:20	30-Apr-13 09:20
CELL 2 - D	H301016-04	Soil	29-Apr-13 14:55	30-Apr-13 09:20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

CELL 2 - A
H301016-01 (Soil)

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

Chloride	ND	16.0	mg/kg	4	3043008	DW	01-May-13	4500-Cl-B	
pH*	8.70	0.100	pH Units	1	3050303	DW	03-May-13	150.1	
Phenols	ND	0.5	mg/kg dry wt.	1	3060305	CK	27-May-13	EPA9065	
Sulfate	40.0	40.0	mg/kg	4	3051410	AP	14-May-13	375.4	

Organic Compounds
SUB-SS

PCB 1016	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
Surrogate: Tetrachloro-meta-xylene		44.4 %	35-140		3053110	CK	10-May-13	8082	
GRO C6-C10	ND	10.0	mg/kg	1	3050103	MS	13-May-13	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	3050103	MS	13-May-13	8015M	
Surrogate: 1-Chlorooctane		110 %	65.2-140		3050103	MS	13-May-13	8015M	
Surrogate: 1-Chlorooctadecane		117 %	63.6-154		3050103	MS	13-May-13	8015M	

Radionuclides
SUB-SUM

Radium-226	2.33 ± 0.29	0.40	pCi/gram	1	3060306	CK	16-May-13	9315/9320	
Radium-228	0.51 ± 0.55	0.40	pCi/gram	1	3060306	CK	15-May-13	9315/9320	


Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Methylene chloride*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

CELL 2 - A
H301016-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

Carbon tetrachloride*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Toluene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3050102	MS	01-May-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3050102	MS	01-May-13	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Surrogate: Dibromofluoromethane		97.4 %		70-130	3050102	MS	01-May-13	8260	
Surrogate: Toluene-d8		96.8 %		70-130	3050102	MS	01-May-13	8260	
Surrogate: 4-Bromofluorobenzene		101 %		70-130	3050102	MS	01-May-13	8260	

Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Acenaphthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

CELL 2 - A
H301016-01 (Soil)

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

Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Fluoranthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Pyrene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Chrysene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Surrogate: Nitrobenzene-d5		124 %		16.1-91.8	3050603	ms	07-May-13	8270C	
Surrogate: 2-Fluorobiphenyl		133 %		27.2-92.9	3050603	ms	07-May-13	8270C	
Surrogate: Terphenyl-d14		146 %		21.3-96.1	3050603	ms	07-May-13	8270C	

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND	0.500	mg/kg dry	100	B305089	KLM	13-May-13	EPA9012 B	
% Dry Solids	95.9		%	1	B305059	JGS	07-May-13	EPA160.3	

Soluble (DI Water Extraction)

Fluoride	5.53	0.800	mg/kg dry	4	B305197	ABP	28-May-13	4500-F- C	
Nitrate/Nitrite as N	5.48	2.00	mg/kg dry	20	B305173	KLM	24-May-13	EPA353.2	
Nitrite as N	ND	0.400	mg/kg dry	4	B305111	KLM	09-May-13	EPA353.2	

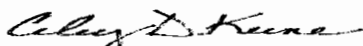
Total Metals by ICP

Iron	3310	5.00	mg/kg dry	100	B305054	JLM	09-May-13	EPA6010 B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

CELL 2 - A
H301016-01 (Soil)

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

Arsenic	3.28	0.0500	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Barium	87.5	0.0500	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Cadmium	0.292	0.0100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Chromium	2.11	0.100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Copper	1.24	0.0100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Lead	2.08	0.0500	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Manganese	17.6	0.0500	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Selenium	0.327	0.100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Silver	0.0169	0.0100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Uranium	0.565	0.0100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Zinc	5.82	0.100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	

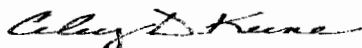
Total Mercury by CVAA

Mercury	ND	0.0990	mg/kg dry	495	B305046	JGS	08-May-13	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

CELL 2 - B H301016-02 (Soil)

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

Inorganic Compounds

Chloride	ND	16.0	mg/kg	4	3043008	DW	01-May-13	4500-Cl-B	
pH*	8.50	0.100	pH Units	1	3050303	DW	03-May-13	150.1	
Phenols	ND	0.5	mg/kg dry wt.	1	3060305	CK	27-May-13	EPA9065	
Sulfate	78.5	40.0	mg/kg	4	3051410	AP	14-May-13	375.4	

Organic Compounds

SUB-SS

PCB 1016	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	

Surrogate: Tetrachloro-meta-xylene

51.1 % 35-140 3053110 CK 10-May-13 8082

GRO C6-C10 ND 10.0 mg/kg 1 3050103 MS 13-May-13 8015M

DRO >C10-C28 ND 10.0 mg/kg 1 3050103 MS 13-May-13 8015M

Surrogate: 1-Chlorooctane 107 % 65.2-140 3050103 MS 13-May-13 8015M

Surrogate: 1-Chlorooctadecane 113 % 63.6-154 3050103 MS 13-May-13 8015M

Radionuclides

SUB-SUM

Radium-226	0.56 ± 0.16	0.40	pCi/gram	1	3060306	CK	16-May-13	9315/9320	
Radium-228	0.64 ± 0.31	0.40	pCi/gram	1	3060306	CK	15-May-13	9315/9320	

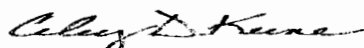
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Methylene chloride*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

CELL 2 - B
H301016-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Toluene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3050102	MS	01-May-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3050102	MS	01-May-13	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Surrogate: Dibromofluoromethane		98.0 %		70-130	3050102	MS	01-May-13	8260	
Surrogate: Toluene-d8		98.6 %		70-130	3050102	MS	01-May-13	8260	
Surrogate: 4-Bromofluorobenzene		102 %		70-130	3050102	MS	01-May-13	8260	

Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Acenaphthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Fluoranthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

CELL 2 - B
H301016-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Pyrene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Chrysene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Surrogate: Nitrobenzene-d5		136 %	16.1-91.8		3050603	ms	07-May-13	8270C	
Surrogate: 2-Fluorobiphenyl		134 %	27.2-92.9		3050603	ms	07-May-13	8270C	
Surrogate: Terphenyl-d14		142 %	21.3-96.1		3050603	ms	07-May-13	8270C	

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND	0.500	mg/kg dry	100	B305089	KLM	13-May-13	EPA9012 B	
% Dry Solids	93.7		%	1	B305059	JGS	07-May-13	EPA160.3	

Soluble (DI Water Extraction)

Fluoride	5.09	0.800	mg/kg dry	4	B305197	ABP	28-May-13	4500-F-C	
Nitrate/Nitrite as N	2.48	2.00	mg/kg dry	20	B305173	KLM	24-May-13	EPA353.2	
Nitrite as N	ND	0.400	mg/kg dry	4	B305111	KLM	09-May-13	EPA353.2	

Total Metals by ICP

Iron	5440	5.00	mg/kg dry	100	B305054	JLM	09-May-13	EPA6010 B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

CELL 2 - B
H301016-02 (Soil)

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

Arsenic	3.41	0.0500	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Barium	115	0.0500	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Cadmium	1.78	0.0100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Chromium	3.42	0.100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Copper	1.82	0.0100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Lead	4.79	0.0500	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Manganese	23.8	0.0500	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Selenium	0.342	0.100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Silver	0.268	0.0100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Uranium	0.570	0.0100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Zinc	10.8	0.100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	

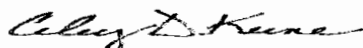
Total Mercury by CVAA

Mercury	ND	0.0980	mg/kg dry	490	B305046	JGS	08-May-13	EPA7471	
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Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

CELL 2 - C
H301016-03 (Soil)

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

Chloride	ND	16.0	mg/kg	4	3043008	DW	01-May-13	4500-Cl-B	
pH*	6.99	0.100	pH Units	1	3050303	DW	03-May-13	150.1	
Phenols	ND	0.5	mg/kg dry wt.	1	3060305	CK	27-May-13	EPA9065	
Sulfate	ND	40.0	mg/kg	4	3051410	AP	14-May-13	375.4	

Organic Compounds
SUB-SS

PCB 1016	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	

Surrogate: Tetrachloro-meta-xylene

53.7 % 35-140 3053110 CK 10-May-13 8082

GRO C6-C10

ND 10.0 mg/kg 1 3050103 MS 13-May-13 8015M

DRO >C10-C28

ND 10.0 mg/kg 1 3050103 MS 13-May-13 8015M

Surrogate: 1-Chlorooctane

104 % 65.2-140 3050103 MS 13-May-13 8015M

Surrogate: 1-Chlorooctadecane

111 % 63.6-154 3050103 MS 13-May-13 8015M

Radionuclides
SUB-SUM

Radium-226	0.34 ± 0.14	0.40	pCi/gram	1	3060306	CK	16-May-13	9315/9320	
Radium-228	U ± 0.58	0.40	pCi/gram	1	3060306	CK	15-May-13	9315/9320	

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Methylene chloride*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

CELL 2 - C
H301016-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8260B

1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Toluene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3050102	MS	01-May-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3050102	MS	01-May-13	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Surrogate: Dibromofluoromethane		97.5 %		70-130	3050102	MS	01-May-13	8260	
Surrogate: Toluene-d8		96.8 %		70-130	3050102	MS	01-May-13	8260	
Surrogate: 4-Bromofluorobenzene		98.1 %		70-130	3050102	MS	01-May-13	8260	

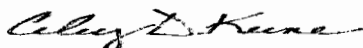
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Acenaphthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Fluoranthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

CELL 2 - C
H301016-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Pyrene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Chrysene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Surrogate: Nitrobenzene-d5		130 %	16.1-91.8		3050603	ms	07-May-13	8270C	
Surrogate: 2-Fluorobiphenyl		145 %	27.2-92.9		3050603	ms	07-May-13	8270C	
Surrogate: Terphenyl-d14		161 %	21.3-96.1		3050603	ms	07-May-13	8270C	

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND	0.500	mg/kg dry	100	B305089	KLM	13-May-13	EPA9012 B	
% Dry Solids	98.6		%	1	B305059	JGS	07-May-13	EPA160.3	

Soluble (DI Water Extraction)

Fluoride	ND	0.800	mg/kg dry	4	B305197	ABP	28-May-13	4500-F- C	
Nitrate/Nitrite as N	48.3	2.00	mg/kg dry	20	B305173	KLM	24-May-13	EPA353.2	
Nitrite as N	0.917	0.400	mg/kg dry	4	B305111	KLM	09-May-13	EPA353.2	


Total Metals by ICP

Iron	7870	5.00	mg/kg dry	100	B305054	JLM	09-May-13	EPA6010 B	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

CELL 2 - C
H301016-03 (Soil)

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

Arsenic	1.99	0.0500	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Barium	39.9	0.0500	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Cadmium	0.523	0.0100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Chromium	3.63	0.100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Copper	1.36	0.0100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Lead	6.03	0.0500	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Manganese	44.3	0.0500	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Selenium	0.184	0.100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Silver	0.113	0.0100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Uranium	0.167	0.0100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Zinc	14.9	0.100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	

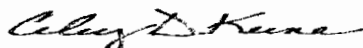
Total Mercury by CVAA

Mercury	ND	0.0980	mg/kg dry	490	B305046	JGS	08-May-13	EPA7471	
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* = Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

CELL 2 - D H301016-04 (Soil)

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

Inorganic Compounds

Chloride	ND	16.0	mg/kg	4	3043008	DW	01-May-13	4500-Cl-B	
pH*	8.20	0.100	pH Units	1	3050303	DW	03-May-13	150.1	
Phenols	ND	0.5	mg/kg dry wt.	1	3060305	CK	27-May-13	EPA9065	
Sulfate	50.3	40.0	mg/kg	4	3051410	AP	14-May-13	375.4	

Organic Compounds

SUB-SS

PCB 1016	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1221	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1232	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1242	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1248	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1254	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	
PCB 1260	ND	10.0	ug/kg	1	3053110	CK	10-May-13	8082	

Surrogate: Tetrachloro-meta-xylene

52.9 % 35-140 3053110 CK 10-May-13 8082

GRO C6-C10 ND 10.0 mg/kg 1 3050103 MS 13-May-13 8015M

DRO >C10-C28 ND 10.0 mg/kg 1 3050103 MS 13-May-13 8015M

Surrogate: 1-Chlorooctane

112 % 65.2-140 3050103 MS 13-May-13 8015M

Surrogate: 1-Chlorooctadecane

112 % 63.6-154 3050103 MS 13-May-13 8015M

Radionuclides

SUB-SUM

Radium-226	0.26 ± 0.13	0.40	pCi/gram	1	3060306	CK	16-May-13	9315/9320	
Radium-228	0.58 ± 0.31	0.40	pCi/gram	1	3060306	CK	15-May-13	9315/9320	

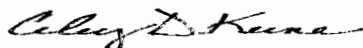
Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Methylene chloride*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Chloroform*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

CELL 2 - D H301016-04 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Benzene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Trichloroethene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Toluene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	3050102	MS	01-May-13	8260	
o-Xylene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Total Xylenes*	ND	0.150	mg/kg	50	3050102	MS	01-May-13	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Naphthalene*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Surrogate: Dibromofluoromethane		99.1 %		70-130	3050102	MS	01-May-13	8260	
Surrogate: Toluene-d8		97.7 %		70-130	3050102	MS	01-May-13	8260	
Surrogate: 4-Bromofluorobenzene		98.0 %		70-130	3050102	MS	01-May-13	8260	

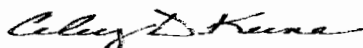
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Acenaphthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Fluorene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Phenanthrene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Anthracene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Carbazole	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Fluoranthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	

Cardinal Laboratories

*=Accredited Analyte

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CELL 2 - D
H301016-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Pyrene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Chrysene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[b]fluoranthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Surrogate: Nitrobenzene-d5		152 %	16.1-91.8		3050603	ms	07-May-13	8270C	
Surrogate: 2-Fluorobiphenyl		152 %	27.2-92.9		3050603	ms	07-May-13	8270C	
Surrogate: Terphenyl-d14		160 %	21.3-96.1		3050603	ms	07-May-13	8270C	

Green Analytical Laboratories
General Chemistry

Cyanide, Total	ND	0.500	mg/kg dry	100	B305089	KLM	13-May-13	EPA9012 B	
% Dry Solids	95.7		%	1	B305059	JGS	07-May-13	EPA160.3	

Soluble (DI Water Extraction)

Fluoride	5.50	0.800	mg/kg dry	4	B305197	ABP	28-May-13	4500-F-C	
Nitrate/Nitrite as N	4.62	2.00	mg/kg dry	20	B305173	KLM	24-May-13	EPA353.2	
Nitrite as N	ND	0.400	mg/kg dry	4	B305111	KLM	09-May-13	EPA353.2	


Total Metals by ICP

Iron	3850	5.00	mg/kg dry	100	B305054	JLM	09-May-13	EPA6010 B	
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*=Accredited Analyte

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CELL 2 - D
H301016-04 (Soil)

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

Arsenic	3.22	0.0500	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Barium	92.4	0.0500	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Cadmium	0.339	0.0100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Chromium	2.25	0.100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Copper	1.44	0.0100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Lead	2.35	0.0500	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Manganese	21.5	0.0500	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Selenium	0.369	0.100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Silver	0.0228	0.0100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Uranium	0.581	0.0100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	
Zinc	7.82	0.100	mg/kg dry	100	B305051	JLM	09-May-13	6020 A	

Total Mercury by CVAA

Mercury	ND	0.0962	mg/kg dry	481	B305046	JGS	08-May-13	EPA7471	
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*==Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3043008 - 1:4 DI Water
Blank (3043008-BLK1)

Prepared & Analyzed: 30-Apr-13

Chloride ND 16.0 mg/kg

LCS (3043008-BS1)

Prepared & Analyzed: 30-Apr-13

Chloride 416 16.0 mg/kg 400 104 80-120

LCS Dup (3043008-BSD1)

Prepared & Analyzed: 30-Apr-13

Chloride 416 16.0 mg/kg 400 104 80-120 0.00 20

Batch 3050303 - NO PREP
LCS (3050303-BS1)

Prepared & Analyzed: 03-May-13

pH 7.09 pH Units 7.00 101 90-110

Duplicate (3050303-DUP1)

Source: H300994-01

Prepared & Analyzed: 03-May-13

pH 4.88 0.100 pH Units 4.86 0.411 20

Batch 3051410 - General Prep - Wet Chem
Blank (3051410-BLK1)

Prepared & Analyzed: 14-May-13

Sulfate ND 2.50 mg/kg

LCS (3051410-BS1)

Prepared & Analyzed: 14-May-13

Sulfate 22.8 2.50 mg/kg 20.0 114 80-120

LCS Dup (3051410-BSD1)

Prepared & Analyzed: 14-May-13

Sulfate 23.1 2.50 mg/kg 20.0 115 80-120 1.05 20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF NM-01-0045 5YR MAIN
 Project Number: JAY DAN
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 03-Jun-13 15:58

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3060305 - General Prep
Blank (3060305-BLK1)

Prepared & Analyzed: 27-May-13

 Phenols ND 0.5 mg/kg dry
 wt.

LCS (3060305-BS1)

Prepared & Analyzed: 27-May-13

Phenols 0.4 mg/kg 0.400 101 70-130

Matrix Spike (3060305-MS1)

Source: H301016-02

Prepared & Analyzed: 27-May-13

Phenols 4.3 mg/kg 4.08 0.0 106 70-130

Matrix Spike Dup (3060305-MSD1)

Source: H301016-02


Prepared & Analyzed: 27-May-13

Phenols 4.4 mg/kg 4.08 0.0 107 70-130 1.45 20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

Organic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 3050103 - General Prep - Organics

Blank (3050103-BLK1)

Prepared: 01-May-13 Analyzed: 02-May-13

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C35	ND	10.0	mg/kg						
Total TPH C6-C28	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	36.3		mg/kg	50.0		72.7	65.2-140		
Surrogate: 1-Chlorooctadecane	43.4		mg/kg	50.0		86.7	63.6-154		

LCS (3050103-BS1)

Prepared: 01-May-13 Analyzed: 02-May-13

GRO C6-C10	196	10.0	mg/kg	200		98.0	66.4-124		
DRO >C10-C28	193	10.0	mg/kg	200		96.7	61.6-132		
Total TPH C6-C28	389	10.0	mg/kg	400		97.4	69.7-122		
Surrogate: 1-Chlorooctane	53.5		mg/kg	50.0		107	65.2-140		
Surrogate: 1-Chlorooctadecane	52.2		mg/kg	50.0		104	63.6-154		

LCS Dup (3050103-BSD1)

Prepared: 01-May-13 Analyzed: 02-May-13

GRO C6-C10	198	10.0	mg/kg	200		99.1	66.4-124	1.07	23.4
DRO >C10-C28	195	10.0	mg/kg	200		97.3	61.6-132	0.628	23.1
Total TPH C6-C28	393	10.0	mg/kg	400		98.2	69.7-122	0.849	20.6
Surrogate: 1-Chlorooctane	54.1		mg/kg	50.0		108	65.2-140		
Surrogate: 1-Chlorooctadecane	54.3		mg/kg	50.0		109	63.6-154		

Batch 3053110 - 3550

Blank (3053110-BLK1)

Prepared: 03-May-13 Analyzed: 10-May-13

PCB 1016	ND	1.00	ug/kg						
PCB 1221	ND	1.00	ug/kg						
PCB 1232	ND	1.00	ug/kg						
PCB 1242	ND	1.00	ug/kg						
PCB 1248	ND	1.00	ug/kg						
PCB 1254	ND	1.00	ug/kg						
PCB 1260	ND	1.00	ug/kg						
Surrogate: Tetrachloro-meta-xylene	7.03		ug/L	10.0		70.3	35-140		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

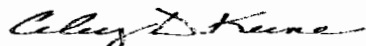
Organic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3053110 - 3550									
LCS (3053110-BS1)					Prepared: 03-May-13 Analyzed: 10-May-13				
PCB 1016	63.4		ug/L	100		63.4	70-130		
PCB 1242	ND	1.00	ug/kg				70-130		
PCB 1254	ND	1.00	ug/kg				70-130		
PCB 1260	68.3		ug/L	100		68.3	70-130		
Surrogate: Tetrachloro-meta-xylene	5.16		ug/L	10.0		51.6	35-140		
Matrix Spike (3053110-MS1)					Source: H301027-01	Prepared: 03-May-13 Analyzed: 10-May-13		QM-07	
PCB 1016	0.00		ug/L	100	ND		70-130		
PCB 1242	ND	1.00	ug/kg		ND		70-130		
PCB 1254	ND	1.00	ug/kg		ND		70-130		
PCB 1260	0.00		ug/L	100	ND		70-130		
Surrogate: Tetrachloro-meta-xylene	7.02		ug/L	10.0		70.2	35-140		
Matrix Spike Dup (3053110-MSD1)					Source: H301027-01	Prepared: 03-May-13 Analyzed: 10-May-13		QM-07	
PCB 1016	0.00		ug/L	100	ND		70-130	20	
PCB 1242	ND	1.00	ug/kg		ND		70-130	20	
PCB 1254	ND	1.00	ug/kg		ND		70-130	20	
PCB 1260	0.00		ug/L	100	ND		70-130	20	
Surrogate: Tetrachloro-meta-xylene	0.00		ug/L	10.0			35-140		S-01

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3050102 - Volatiles

Blank (3050102-BLK1)

Prepared & Analyzed: 01-May-13

Vinyl chloride	ND	0.0500	mg/kg							
1,1-Dichloroethene	ND	0.0500	mg/kg							
Methylene chloride	ND	0.0500	mg/kg							
1,1-Dichloroethane	ND	0.0500	mg/kg							
Chloroform	ND	0.0500	mg/kg							
Carbon tetrachloride	ND	0.0500	mg/kg							
1,1,1-Trichloroethane	ND	0.0500	mg/kg							
Benzene	ND	0.0500	mg/kg							
1,2-Dichloroethane	ND	0.0500	mg/kg							
Trichloroethene	ND	0.0500	mg/kg							
Toluene	ND	0.0500	mg/kg							
Tetrachloroethene	ND	0.0500	mg/kg							
1,1,2-Trichloroethane	ND	0.0500	mg/kg							
1,2-Dibromoethane	ND	0.0500	mg/kg							
Ethylbenzene	ND	0.0500	mg/kg							
m-p Xylenes	ND	0.100	mg/kg							
o-Xylene	ND	0.0500	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg							
Naphthalene	ND	0.0500	mg/kg							
Surrogate: Dibromofluoromethane	0.492		mg/kg	0.500		98.4	70-130			
Surrogate: Toluene-d8	0.486		mg/kg	0.500		97.2	70-130			
Surrogate: 4-Bromofluorobenzene	0.493		mg/kg	0.500		98.6	70-130			

LCS (3050102-BS1)

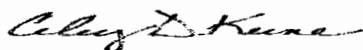
Prepared & Analyzed: 01-May-13

Vinyl chloride	1.76	0.0500	mg/kg	2.00		87.8	70-130			
1,1-Dichloroethene	1.79	0.0500	mg/kg	2.00		89.6	70-130			
Methylene chloride	1.91	0.0500	mg/kg	2.00		95.6	70-130			
1,1-Dichloroethane	1.90	0.0500	mg/kg	2.00		95.0	70-130			
Chloroform	1.86	0.0500	mg/kg	2.00		92.8	70-130			
Carbon tetrachloride	1.98	0.0500	mg/kg	2.00		99.2	70-130			
1,1,1-Trichloroethane	1.91	0.0500	mg/kg	2.00		95.3	70-130			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3050102 - Volatiles

LCS (3050102-BS1)

Prepared & Analyzed: 01-May-13

Benzene	1.83	0.0500	mg/kg	2.00		91.4	70-130			
1,2-Dichloroethane	1.82	0.0500	mg/kg	2.00		91.1	70-130			
Trichloroethene	1.91	0.0500	mg/kg	2.00		95.6	70-130			
Toluene	1.69	0.0500	mg/kg	2.00		84.3	70-130			
Tetrachloroethene	1.88	0.0500	mg/kg	2.00		94.1	70-130			
1,1,2-Trichloroethane	1.81	0.0500	mg/kg	2.00		90.4	70-130			
1,2-Dibromoethane	1.81	0.0500	mg/kg	2.00		90.5	70-130			
Ethylbenzene	1.82	0.0500	mg/kg	2.00		91.2	70-130			
m-p Xylenes	3.90	0.100	mg/kg				70-130			
o-Xylene	1.92	0.0500	mg/kg	2.00		96.2	70-130			
Total Xylenes	5.83	0.150	mg/kg	6.00		97.1	70-130			
1,1,2,2-Tetrachloroethane	1.72	0.0500	mg/kg	2.00		86.1	70-130			
Naphthalene	1.87	0.0500	mg/kg	2.00		93.5	70-130			
Surrogate: Dibromofluoromethane	0.517		mg/kg	0.500		103	70-130			
Surrogate: Toluene-d8	0.489		mg/kg	0.500		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.506		mg/kg	0.500		101	70-130			

LCS Dup (3050102-BSD1)

Prepared & Analyzed: 01-May-13

Vinyl chloride	1.84	0.0500	mg/kg	2.00		92.2	70-130	4.92	20	
1,1-Dichloroethene	1.84	0.0500	mg/kg	2.00		91.8	70-130	2.44	20	
Methylene chloride	2.00	0.0500	mg/kg	2.00		100	70-130	4.71	20	
1,1-Dichloroethane	1.97	0.0500	mg/kg	2.00		98.3	70-130	3.42	20	
Chloroform	1.93	0.0500	mg/kg	2.00		96.5	70-130	3.90	20	
Carbon tetrachloride	2.03	0.0500	mg/kg	2.00		102	70-130	2.31	20	
1,1,1-Trichloroethane	2.02	0.0500	mg/kg	2.00		101	70-130	6.03	20	
Benzene	1.93	0.0500	mg/kg	2.00		96.5	70-130	5.47	20	
1,2-Dichloroethane	1.91	0.0500	mg/kg	2.00		95.6	70-130	4.80	20	
Trichloroethene	1.99	0.0500	mg/kg	2.00		99.6	70-130	4.18	20	
Toluene	1.79	0.0500	mg/kg	2.00		89.7	70-130	6.22	20	
Tetrachloroethene	1.99	0.0500	mg/kg	2.00		99.6	70-130	5.68	20	
1,1,2-Trichloroethane	1.91	0.0500	mg/kg	2.00		95.5	70-130	5.47	20	
1,2-Dibromoethane	1.90	0.0500	mg/kg	2.00		94.8	70-130	4.61	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3050102 - Volatiles
LCS Dup (3050102-BSD1)

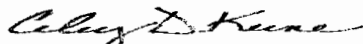
Prepared & Analyzed: 01-May-13

Ethylbenzene	1.93	0.0500	mg/kg	2.00		96.3	70-130	5.43	20	
m-p Xylenes	4.11	0.100	mg/kg				70-130	5.01	20	
o-Xylene	2.04	0.0500	mg/kg	2.00		102	70-130	5.77	20	
Total Xylenes	6.14	0.150	mg/kg	6.00		102	70-130	5.26	20	
1,1,2,2-Tetrachloroethane	1.84	0.0500	mg/kg	2.00		92.0	70-130	6.68	20	
Naphthalene	2.09	0.0500	mg/kg	2.00		104	70-130	11.1	20	
Surrogate: Dibromofluoromethane	0.507		mg/kg	0.500		101	70-130			
Surrogate: Toluene-d8	0.486		mg/kg	0.500		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	0.502		mg/kg	0.500		100	70-130			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

Semivolatile Organic Compounds by GCMS - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3050603 - SW846-3510
Blank (3050603-BLK1)

Prepared: 06-May-13 Analyzed: 07-May-13

Naphthalene	ND	0.040	mg/kg							
2-Methylnaphthalene	ND	0.040	mg/kg							
1-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Phenanthrene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Carbazole	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Benzo[b]fluoranthene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Surrogate: Nitrobenzene-d5	2.82		mg/kg	2.00		141	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	2.73		mg/kg	2.00		136	27.2-92.9			
Surrogate: Terphenyl-d4	2.69		mg/kg	2.00		134	21.3-96.1			

LCS (3050603-BS1)


Prepared & Analyzed: 06-May-13

Naphthalene	0.503	0.040	mg/kg	0.400		126	5.46-157			
2-Methylnaphthalene	0.498	0.040	mg/kg	0.400		125	16.1-146			
Acenaphthylene	0.461	0.040	mg/kg	0.400		115	21.6-144			
Acenaphthene	0.474	0.040	mg/kg	0.400		118	27-143			
Fluorene	0.466	0.040	mg/kg	0.400		117	30.9-138			
Phenanthrene	0.473	0.040	mg/kg	0.400		118	38.6-149			
Anthracene	0.459	0.040	mg/kg	0.400		115	36.1-149			
Carbazole	0.476	0.040	mg/kg	0.400		119	29.8-144			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3050603 - SW846-3510

LCS (3050603-BS1)

Prepared & Analyzed: 06-May-13

Fluoranthene	0.463	0.040	mg/kg	0.400		116	34.6-148			
Pyrene	0.446	0.040	mg/kg	0.400		112	24.8-154			
Benzo[a]anthracene	0.447	0.040	mg/kg	0.400		112	0-179			
Chrysene	0.456	0.040	mg/kg	0.400		114	35.1-150			
Benzo[b]fluoranthene	0.378	0.040	mg/kg	0.400		94.5	17.6-158			
Benzo[k]fluoranthene	0.412	0.040	mg/kg	0.400		103	10.6-169			
Benzo[a]pyrene	0.382	0.040	mg/kg	0.400		95.4	2.25-166			
Indeno[1,2,3-cd]pyrene	0.412	0.040	mg/kg	0.400		103	0-181			
Dibenz[a,h]anthracene	0.401	0.040	mg/kg	0.400		100	2.49-177			
Benzo[g,h,i]perylene	0.421	0.040	mg/kg	0.400		105	0-173			
Surrogate: Nitrobenzene-d5	3.34		mg/kg	0.400		835	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	3.14		mg/kg	0.400		785	27.2-92.9			
Surrogate: Terphenyl-d14	3.08		mg/kg	0.400		771	21.3-96.1			

LCS Dup (3050603-BSD1)


Prepared & Analyzed: 06-May-13

Naphthalene	0.500	0.040	mg/kg	0.400		125	5.46-157	0.654	6.7	
2-Methylnaphthalene	0.488	0.040	mg/kg	0.400		122	16.1-146	2.11	8.99	
Acenaphthylene	0.464	0.040	mg/kg	0.400		116	21.6-144	0.601	14.6	
Acenaphthene	0.462	0.040	mg/kg	0.400		116	27-143	2.48	6.99	
Fluorene	0.460	0.040	mg/kg	0.400		115	30.9-138	1.38	13.9	
Phenanthrene	0.468	0.040	mg/kg	0.400		117	38.6-149	1.13	14.6	
Anthracene	0.462	0.040	mg/kg	0.400		116	36.1-149	0.799	18.5	
Carbazole	0.472	0.040	mg/kg	0.400		118	29.8-144	0.829	23.4	
Fluoranthene	0.472	0.040	mg/kg	0.400		118	34.6-148	2.06	19.7	
Pyrene	0.460	0.040	mg/kg	0.400		115	24.8-154	3.05	23	
Benzo[a]anthracene	0.450	0.040	mg/kg	0.400		113	0-179	0.604	32.5	
Chrysene	0.453	0.040	mg/kg	0.400		113	35.1-150	0.700	19.4	
Benzo[b]fluoranthene	0.402	0.040	mg/kg	0.400		101	17.6-158	6.18	31.4	
Benzo[k]fluoranthene	0.399	0.040	mg/kg	0.400		99.8	10.6-169	3.10	44.6	
Benzo[a]pyrene	0.392	0.040	mg/kg	0.400		98.1	2.25-166	2.76	60.5	
Indeno[1,2,3-cd]pyrene	0.406	0.040	mg/kg	0.400		101	0-181	1.54	77	
Dibenz[a,h]anthracene	0.393	0.040	mg/kg	0.400		98.1	2.49-177	2.02	63.3	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF NM-01-0045 5YR MAIN
 Project Number: JAY DAN
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 03-Jun-13 15:58

Semivolatile Organic Compounds by GCMS - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3050603 - SW846-3510
LCS Dup (3050603-BS01)

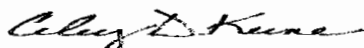
Prepared & Analyzed: 06-May-13

Benzo[g,h,i]perylene	0.413	0.040	mg/kg	0.400		103	0-173	1.78	77.4	
Surrogate: Nitrobenzene-d5	3.31		mg/kg	0.400		827	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	3.12		mg/kg	0.400		779	27.2-92.9			
Surrogate: Terphenyl-d4	3.16		mg/kg	0.400		790	21.3-96.1			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF NM-01-0045 5YR MAIN
 Project Number: JAY DAN
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 03-Jun-13 15:58

General Chemistry - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B305089 - Cyanide Preparation
Blank (B305089-BLK1)

Prepared & Analyzed: 13-May-13

Cyanide, Total ND 0.00500 mg/kg wet

LCS (B305089-BS1)

Prepared & Analyzed: 13-May-13

Cyanide, Total 0.0461 0.00500 mg/kg wet 0.0500 92.2 85-115

LCS Dup (B305089-BSD1)

Prepared & Analyzed: 13-May-13

Cyanide, Total 0.0443 0.00500 mg/kg wet 0.0500 88.6 85-115 3.98 20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

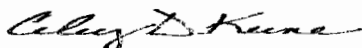
Soluble (DI Water Extraction) - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch B305111 - General Prep - Wet Chem									
LCS (B305111-BS1)				Prepared & Analyzed: 09-May-13					
Nitrite as N	0.609	0.100	mg/kg wet	0.500		122 85-115			
LCS Dup (B305111-BSD1)				Prepared & Analyzed: 09-May-13					
Nitrite as N	0.585	0.100	mg/kg wet	0.500		117 85-115	4.02	20	
Batch B305173 - General Prep - Wet Chem									
Blank (B305173-BLK1)				Prepared: 23-May-13 Analyzed: 24-May-13					
Nitrate/Nitrite as N	ND	0.100	mg/kg wet						
LCS (B305173-BS1)				Prepared: 23-May-13 Analyzed: 24-May-13					
Nitrate/Nitrite as N	0.566	0.100	mg/kg wet	0.500		113 75-125			
LCS Dup (B305173-BSD1)				Prepared: 23-May-13 Analyzed: 24-May-13					
Nitrate/Nitrite as N	0.520	0.100	mg/kg wet	0.500		104 75-125	8.47	20	
Batch B305197 - General Prep - Wet Chem									
Blank (B305197-BLK1)				Prepared & Analyzed: 28-May-13					
Fluoride	ND	0.200	mg/kg wet						
LCS (B305197-BS1)				Prepared & Analyzed: 28-May-13					
Fluoride	1.00	0.200	mg/kg wet	1.00		100 85-115			
LCS Dup (B305197-BSD1)				Prepared & Analyzed: 28-May-13					
Fluoride	0.998	0.200	mg/kg wet	1.00		99.8 85-115	0.200	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF NM-01-0045 5YR MAIN
 Project Number: JAY DAN
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 03-Jun-13 15:58

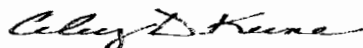
Total Metals by ICP - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B305054 - EPA 3050										
Blank (B305054-BLK1)										
Prepared & Analyzed: 09-May-13										
Iron	ND	0.050	mg/kg dry							
LCS (B305054-BS1)										
Prepared & Analyzed: 09-May-13										
Iron	4.16	0.050	mg/kg dry	4.00		104	85-115			
LCS Dup (B305054-BSD1)										
Prepared & Analyzed: 09-May-13										
Iron	4.08	0.050	mg/kg dry	4.00		102	85-115	1.93	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
03-Jun-13 15:58

Total Metals by ICPMS - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B305051 - EPA 3050M

Blank (B305051-BLK1)

Prepared: 08-May-13 Analyzed: 09-May-13

Arsenic	ND	0.0005	mg/kg dry
Selenium	ND	0.0010	mg/kg dry
Copper	ND	0.0001	mg/kg dry
Uranium	ND	0.0001	mg/kg dry
Barium	ND	0.0005	mg/kg dry
Manganese	ND	0.0005	mg/kg dry
Cadmium	ND	0.0001	mg/kg dry
Silver	ND	0.0001	mg/kg dry
Lead	ND	0.0005	mg/kg dry
Zinc	ND	0.0010	mg/kg dry
Chromium	ND	0.0010	mg/kg dry

LCS (B305051-BS1)

Prepared: 08-May-13 Analyzed: 09-May-13

Silver	0.0483	0.0001	mg/kg dry	0.0500	96.5	85-115
Zinc	0.0433	0.0010	mg/kg dry	0.0500	86.6	80-120
Manganese	0.0474	0.0005	mg/kg dry	0.0500	94.8	85-115
Chromium	0.0467	0.0010	mg/kg dry	0.0500	93.4	85-115
Barium	0.0484	0.0005	mg/kg dry	0.0500	96.9	85-115
Uranium	0.0479	0.0001	mg/kg dry	0.0500	95.8	85-115
Selenium	0.243	0.0010	mg/kg dry	0.250	97.0	85-115
Arsenic	0.0480	0.0005	mg/kg dry	0.0500	96.0	85-115
Cadmium	0.0487	0.0001	mg/kg dry	0.0500	97.3	85-115
Lead	0.0475	0.0005	mg/kg dry	0.0500	95.1	85-115
Copper	0.0477	0.0001	mg/kg dry	0.0500	95.5	85-115

LCS Dup (B305051-BSD1)

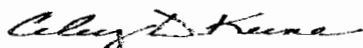
Prepared: 08-May-13 Analyzed: 09-May-13

Barium	0.0501	0.0005	mg/kg dry	0.0500	100	85-115	3.43	20
Cadmium	0.0494	0.0001	mg/kg dry	0.0500	98.9	85-115	1.61	20
Arsenic	0.0483	0.0005	mg/kg dry	0.0500	96.5	85-115	0.504	20
Manganese	0.0484	0.0005	mg/kg dry	0.0500	96.8	85-115	2.04	20
Copper	0.0490	0.0001	mg/kg dry	0.0500	98.0	85-115	2.58	20
Uranium	0.0510	0.0001	mg/kg dry	0.0500	102	85-115	6.20	20
Selenium	0.249	0.0010	mg/kg dry	0.250	99.6	85-115	2.68	20

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF NM-01-0045 5YR MAIN
 Project Number: JAY DAN
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 03-Jun-13 15:58

Total Metals by ICPMS - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B305051 - EPA 3050M
LCS Dup (B305051-BS1)

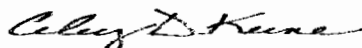
Prepared: 08-May-13 Analyzed: 09-May-13

Silver	0.0491	0.0001	mg/kg dry	0.0500		98.1	85-115	1.64	20	
Lead	0.0506	0.0005	mg/kg dry	0.0500		101	85-115	6.21	20	
Zinc	0.0516	0.0010	mg/kg dry	0.0500		103	80-120	17.5	20	
Chromium	0.0491	0.0010	mg/kg dry	0.0500		98.2	85-115	4.98	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF NM-01-0045 5YR MAIN
 Project Number: JAY DAN
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 03-Jun-13 15:58

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
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Batch B305046 - EPA 7471
Blank (B305046-BLK1)

Prepared & Analyzed: 08-May-13

Mercury ND 0.0002 mg/kg wet

LCS (B305046-BS1)

Prepared & Analyzed: 08-May-13

Mercury 0.0021 0.0002 mg/kg wet 0.00200 103 85-115

LCS Dup (B305046-BSD1)

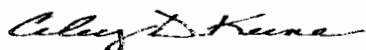
Prepared & Analyzed: 08-May-13

Mercury 0.0021 0.0002 mg/kg wet 0.00200 103 85-115 0.486 20

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Celey D. Keene, Lab Director/Quality Manager

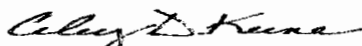
Notes and Definitions

Z-01g	U ± 0.58
Z-01f	2.33 ± 0.29
Z-01e	0.64 ± 0.31
Z-01d	0.58 ± 0.31
Z-01c	0.56 ± 0.16
Z-01b	0.51 ± 0.55
Z-01a	0.34 ± 0.14
Z-01	0.26 ± 0.13
SUB-SUM	Analysis subcontracted to Summit Environmental Technologies, Inc..
SUB-SS	Analysis subcontracted to SunStar Laboratories, Inc.
S-01	The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GAL	Analysis subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.
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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1633

101 East Marland, Hobbs, NM 88240

(575) 393-2328 FAX (575) 393-2476

ANALYSIS REQUEST

Company Name: Edlin Group Consulting

Project Manager: Edlin Group Consulting

Address: 601 W. Illinois

City: Hobbs State: NM Zip: 88242

Phone #: 2-2234 Fax #: 2-6944

Project #: 50000 Project Owner: D. Johnson

Project Name: Wash Dam Landfill (NM.01.0048)

Project Location: Highway 50 S. 32 T. 15 R. 35

Sample Name: Edlin Group

FOR LAB USE ONLY

Lab I.D. Sample I.D.

1 H2O D16

2 Cell 2-A

3 Cell 2-B

4 Cell 2-C

5 Cell 2-D

6 Cell 2-E

7 Cell 2-F

8 Cell 2-G

9 Cell 2-H

10 Cell 2-I

11 Cell 2-J

12 Cell 2-K

13 Cell 2-L

14 Cell 2-M

15 Cell 2-N

16 Cell 2-O

17 Cell 2-P

18 Cell 2-Q

19 Cell 2-R

20 Cell 2-S

21 Cell 2-T

22 Cell 2-U

23 Cell 2-V

24 Cell 2-W

25 Cell 2-X

26 Cell 2-Y

27 Cell 2-Z

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

Matrix

Preserv

Sampling

Groundwater

Wastewater

Soil

Oil

Sludge

Other:

Acid/Alkaline

Ice/Cool

Other:

Date

Time

BTX

TPH (GAS)

Chlorides

Arsenic

Barium

Cadmium

Cyanide

Lead

Mercury

Silicon

Silver

PCB

DATE

TIME

BTX

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

Matrix

Preserv

Sampling

Groundwater

Wastewater

Soil

Oil

Sludge

Other:

Acid/Alkaline

Ice/Cool

Other:

Date

Time

BTX

TPH (GAS)

Chlorides

Arsenic

Barium

Cadmium

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Lead

Mercury

Silicon

Silver

PCB

DATE

TIME

BTX

ANALYSIS REQUEST

Company Name: Edlin Group Consulting

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Address: 601 W. Illinois

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Project #: 50000 Project Owner: D. Johnson

Project Name: Wash Dam Landfill (NM.01.0048)

Project Location: Highway 50 S. 32 T. 15 R. 35

Sample Name: Edlin Group

FOR LAB USE ONLY

Lab I.D. Sample I.D.

1 H2O D16

2 Cell 2-A

3 Cell 2-B

4 Cell 2-C

5 Cell 2-D

6 Cell 2-E

7 Cell 2-F

8 Cell 2-G

9 Cell 2-H

10 Cell 2-I

11 Cell 2-J

12 Cell 2-K

13 Cell 2-L

14 Cell 2-M

15 Cell 2-N

16 Cell 2-O

17 Cell 2-P

18 Cell 2-Q

19 Cell 2-R

20 Cell 2-S

21 Cell 2-T

22 Cell 2-U

23 Cell 2-V

24 Cell 2-W

25 Cell 2-X

26 Cell 2-Y

27 Cell 2-Z

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

Matrix

Preserv

Sampling

Groundwater

Wastewater

Soil

Oil

Sludge

Other:

Acid/Alkaline

Ice/Cool

Other:

Date

Time

BTX

TPH (GAS)

Chlorides

Arsenic

Barium

Cadmium

Cyanide

Lead

Mercury

Silicon

Silver

PCB

DATE

TIME

BTX

ANALYSIS REQUEST

Company Name: Edlin Group Consulting

Project Manager: Edlin Group Consulting

Address: 601 W. Illinois

City: Hobbs State: NM Zip: 88242

Phone #: 2-2234 Fax #: 2-6944

Project #: 50000 Project Owner: D. Johnson

Project Name: Wash Dam Landfill (NM.01.0048)

Project Location: Highway 50 S. 32 T. 15 R. 35

Sample Name: Edlin Group

FOR LAB USE ONLY

Lab I.D. Sample I.D.

1 H2O D16

2 Cell 2-A

3 Cell 2-B

4 Cell 2-C

5 Cell 2-D

6 Cell 2-E

7 Cell 2-F

8 Cell 2-G

9 Cell 2-H

10 Cell 2-I

11 Cell 2-J

12 Cell 2-K

13 Cell 2-L

14 Cell 2-M

15 Cell 2-N

16 Cell 2-O

17 Cell 2-P

18 Cell 2-Q

19 Cell 2-R

20 Cell 2-S

21 Cell 2-T

22 Cell 2-U

23 Cell 2-V

24 Cell 2-W

25 Cell 2-X

26 Cell 2-Y

27 Cell 2-Z

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

Matrix

Preserv

Sampling

Groundwater

Wastewater

Soil

Oil

Sludge

Other:

Acid/Alkaline

Ice/Cool

Other:

Date

Time

BTX

TPH (GAS)

Chlorides

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Barium

Cadmium

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Lead

Mercury

Silicon

Silver

PCB

DATE

TIME

BTX

ANALYSIS REQUEST

Company Name: Edlin Group Consulting

Project Manager: Edlin Group Consulting

Address: 601 W. Illinois

City: Hobbs State: NM Zip: 88242

Phone #: 2-2234 Fax #: 2-6944

Project #: 50000 Project Owner: D. Johnson

Project Name: Wash Dam Landfill (NM.01.0048)

Project Location: Highway 50 S. 32 T. 15 R. 35

Sample Name: Edlin Group

FOR LAB USE ONLY

Lab I.D. Sample I.D.

1 H2O D16

2 Cell 2-A

3 Cell 2-B

4 Cell 2-C

5 Cell 2-D

6 Cell 2-E

7 Cell 2-F

8 Cell 2-G

9 Cell 2-H

10 Cell 2-I

11 Cell 2-J

12 Cell 2-K

13 Cell 2-L

14 Cell 2-M

15 Cell 2-N

16 Cell 2-O

17 Cell 2-P

18 Cell 2-Q

19 Cell 2-R

20 Cell 2-S

21 Cell 2-T

22 Cell 2-U

23 Cell 2-V

24 Cell 2-W

25 Cell 2-X

26 Cell 2-Y

27 Cell 2-Z

P.O. #:

Company:

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

Matrix

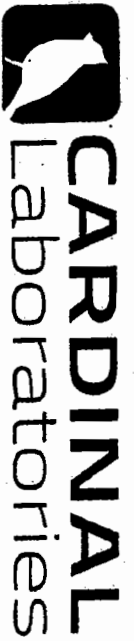
Preserv

Sampling

Groundwater

Wastewater

Soil



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 3

101 East Marland, Hobbs, NM 88240
(576) 393-2326 FAX (576) 393-2476

Company Name: <u>Edwards Survey Consulting</u>		P.O. #:														
Project Manager:		Company:														
Address:		Attn:														
City:		Address:														
Phone #:		City:														
Fax #:		State:														
Project #:		Zip:														
Project Name: <u>San Juan Landfill</u>		Phone #:														
Project Location:		Fax #:														
Sample Name:		PRESERV														
FOR LAB USE ONLY		SAMPLING														
Lab I.D.	Sample I.D.	(G)RAB OR (G)OMP.		DATE	TIME	EDC	DCE	PCE	TCE	Methylene Chloride	Chloroform	EDB	Trichloroethane	Tetrachloroethane	Vinyl Chloride	Polycyclic Aromatic Hydro.
		# CONTAINERS														
	Col 2 - A	5	GROUNDWATER		4/29											
	Col 2 - B	5	WASTEWATER		4/29											
	Col 2 - C	5	SOIL		4/29											
	Col 2 - D	5	OIL		4/29											
		5	SLUDGE													
		5	OTHER :													
		5	ACID/BASE:													
		5	ICE / COOL													
		5	OTHER :													

Delivered By: (Circle One) 30 ☒ Cool ☐ Ambient ☐ Other

Sampler - UPS - Bus - Other: 30 ☒ UPS ☐ Bus ☐ Other

Relinquished By: John W. Anderson Date: 4/30 Time: 9:20 Received By: John W. Anderson Date: 4/30 Time: 9:20

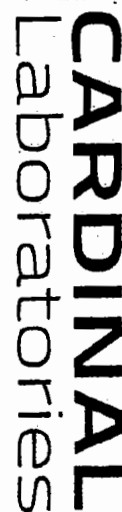
Relinquished By: John W. Anderson Date: 4/30 Time: 9:20 Received By: John W. Anderson Date: 4/30 Time: 9:20

Phone Result: ☐ Yes ☐ No ☐ Add'l Phone #:

Fax Result: ☐ Yes ☐ No ☐ Add'l Fax #:

REMARKS:

* Cardinal cannot accept verbal changes. Please fax written changes to (576) 393-2326 #41



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

UN
2
UN

Company Name: Fuller Co. Consulting		P.O. #:	
Project Manager:		Company:	
Address:		Attn:	
City:	State:	Zip:	
Phone #:	Fax #:	Add'l Phone #:	
Project #:	Project Owner:		
Project Name: Day 1 San Landfill		City:	
Project Location:		State:	
Sample Name:		Phone #:	
For Use Only		Fax #:	

Lab I.D.	Sample I.D.	(RAD) OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:				ICE / COOL
	C002-1A		5								4/29			Benzene - a - pyrene
	C002-2-13		5								4/29			Copper
	C002-2-1C		5								4/29			Iron
	C002-2-1A		5								4/29			Manganese
														Sulfate
														Zinc
														Ra 226 & Ra 228
														Uranium
														F. No 3
														Phenols
														P.H
														Carbon Totachloride

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Relinquished By: **John J. McNamee** Date: **4/30** Received By: **John J. McNamee**

Relinquished By: **John J. McNamee** Date: **4/30** Received By: **John J. McNamee**

Time: **9:20**

Time: **9:20**

Delivered By: (Circle One) **30** Sample Condition **Cool Intact** CHECKED BY: **John J. McNamee**

Sampler - UPS - Bus - Other: **30** No ☐ Yes ☐ No ☐ Add'l Phone #: **714**

REMARKS:

October 22, 2012

NMOCD Environmental
ATTN: Brad Jones
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Jay Dan Landfarm (NM-01-0045)
Semi-Annual Sampling

Mr. Jones:

Find within the semi-annual sampling for both the treatment zone and vadose zone as required and five year monitoring.

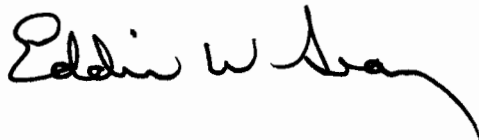
The treatment zone samples were taken at two to four inches of surface making one composite from four discrete samples for each cell, testing for TPH and Chloride.

The vadose zone samples were taken at approximately three feet below the natural surface level. There were four randomly selected samples composited from each cell, testing for BTEX, TPH and Chloride.

We are continuing to sample and analyze the "Five Year Monitoring" as rule 36 requires.

If you have any questions or need anything further, please call.

Sincerely,

A handwritten signature in black ink, appearing to read "Eddie W. Seay". The signature is fluid and cursive, with a long, sweeping underline that extends to the right.

Eddie W. Seay, Agent
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242
575-392-2236
seay04@leaco.net

cc: Jay Dan Landfarm

September 24, 2012

Eddie Seay

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

RE: JAY DAN LAND FARM

Enclosed are the results of analyses for samples received by the laboratory on 09/18/12 10:10.

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

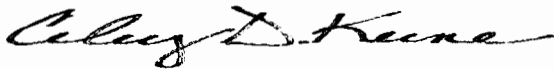
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 Eddie Seay
 601 W. Illinois
 Hobbs NM, 88242
 Fax To: (505) 392-6949

Received:	09/18/2012	Sampling Date:	09/17/2012
Reported:	09/24/2012	Sampling Type:	Soil
Project Name:	JAY DAN LAND FARM	Sampling Condition:	Cool & Intact
Project Number:	JAY DAN LANDFARM	Sample Received By:	Jodi Henson
Project Location:	W. LOVINGTON		

Sample ID: CELL 1 - T (H202248-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/21/2012	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/20/2012	ND	169	84.6	200	10.6	
DRO >C10-C28	45.4	10.0	09/20/2012	ND	172	86.1	200	10.6	
<hr/>									
Surrogate: 1-Chlorooctane	89.5 %	65.2-140							
Surrogate: 1-Chlorooctadecane	96.9 %	63.6-154							

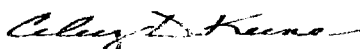
Sample ID: CELL 2 - T (H202248-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	09/21/2012	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10.7	10.0	09/20/2012	ND	169	84.6	200	10.6	
DRO >C10-C28	92.4	10.0	09/20/2012	ND	172	86.1	200	10.6	
<hr/>									
Surrogate: 1-Chlorooctane	90.6 %	65.2-140							
Surrogate: 1-Chlorooctadecane	97.3 %	63.6-154							

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 09/18/2012
Reported: 09/24/2012
Project Name: JAY DAN LAND FARM
Project Number: JAY DAN LANDFARM
Project Location: W. LOVINGTON

Sampling Date: 09/17/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 3 - T (H202248-03)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	09/21/2012	ND	400	100	400	0.00	
TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/20/2012	ND	169	84.6	200	10.6	
DRO >C10-C28	23.9	10.0	09/20/2012	ND	172	86.1	200	10.6	
Surrogate: 1-Chlorooctane	84.3 %	65.2-140							
Surrogate: 1-Chlorooctadecane	87.1 %	63.6-154							

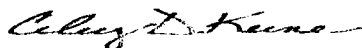
Sample ID: CELL 4 - T (H202248-04)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	09/21/2012	ND	400	100	400	0.00	
TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/20/2012	ND	169	84.6	200	10.6	
DRO >C10-C28	51.3	10.0	09/20/2012	ND	172	86.1	200	10.6	
Surrogate: 1-Chlorooctane	93.2 %	65.2-140							
Surrogate: 1-Chlorooctadecane	97.8 %	63.6-154							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 09/18/2012
Reported: 09/24/2012
Project Name: JAY DAN LAND FARM
Project Number: JAY DAN LANDFARM
Project Location: W. LOVINGTON

Sampling Date: 09/17/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 2 - V (H202248-05)
BTEX 8021B
mg/kg
Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2012	ND	1.84	92.0	2.00	13.8	
Toluene*	<0.050	0.050	09/24/2012	ND	2.07	103	2.00	11.4	
Ethylbenzene*	<0.050	0.050	09/24/2012	ND	2.04	102	2.00	11.1	
Total Xylenes*	<0.150	0.150	09/24/2012	ND	6.32	105	6.00	9.78	

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

Chloride, SM4500Cl-B
mg/kg
Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/21/2012	ND	400	100	400	0.00	

TPH 8015M
mg/kg
Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/20/2012	ND	169	84.6	200	10.6	
DRO >C10-C28	<10.0	10.0	09/20/2012	ND	172	86.1	200	10.6	

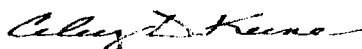
Surrogate: 1-Chlorooctane 86.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.9 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 09/18/2012
Reported: 09/24/2012
Project Name: JAY DAN LAND FARM
Project Number: JAY DAN LANDFARM
Project Location: W. LOVINGTON

Sampling Date: 09/17/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 3 - V (H202248-06)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/21/2012	ND	1.85	92.3	2.00	9.32	
Toluene*	<0.050	0.050	09/21/2012	ND	2.01	100	2.00	10.0	
Ethylbenzene*	<0.050	0.050	09/21/2012	ND	1.98	98.8	2.00	9.56	
Total Xylenes*	<0.150	0.150	09/21/2012	ND	5.99	99.9	6.00	9.48	

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/21/2012	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/20/2012	ND	169	84.6	200	10.6	
DRO >C10-C28	<10.0	10.0	09/20/2012	ND	172	86.1	200	10.6	

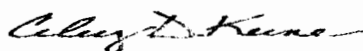
Surrogate: 1-Chlorooctane 66.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 65.9 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 09/18/2012
Reported: 09/24/2012
Project Name: JAY DAN LAND FARM
Project Number: JAY DAN LANDFARM
Project Location: W. LOVINGTON

Sampling Date: 09/17/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: CELL 4 - V (H202248-07)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2012	ND	1.85	92.3	2.00	9.32	
Toluene*	<0.050	0.050	09/24/2012	ND	2.01	100	2.00	10.0	
Ethylbenzene*	<0.050	0.050	09/24/2012	ND	1.98	98.8	2.00	9.56	
Total Xylenes*	<0.150	0.150	09/24/2012	ND	5.99	99.9	6.00	9.48	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/21/2012	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/20/2012	ND	169	84.6	200	10.6	
DRO >C10-C28	<10.0	10.0	09/20/2012	ND	172	86.1	200	10.6	

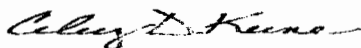
Surrogate: 1-Chlorooctane 88.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.2 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
Eddie Seay
601 W. Illinois
Hobbs NM, 88242
Fax To: (505) 392-6949

Received: 09/18/2012
Reported: 09/24/2012
Project Name: JAY DAN LAND FARM
Project Number: JAY DAN LANDFARM
Project Location: W. LOVINGTON

Sampling Date: 09/17/2012
Sampling Type: Water
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: JAY DAN WW #1 (H202248-08)**Chloride, SM4500Cl-B****mg/L****Analyzed By: HM**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	92.0	4.00	09/21/2012	ND	100	100	100	3.92	

TPH 8015M**mg/L****Analyzed By: MS**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1.00	1.00	09/19/2012	ND	41.4	82.8	50.0	9.74	
DRO >C10-C28	<1.00	1.00	09/19/2012	ND	41.3	82.6	50.0	13.4	

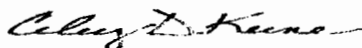
Surrogate: 1-Chlorooctane 81.5 % 48.7-164

Surrogate: 1-Chlorooctadecane 92.3 % 54.8-165

Cardinal Laboratories

*=Accredited Analyte

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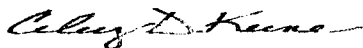
Celey D. Keene, Lab Director/Quality Manager

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

Cardinal Laboratories***=Accredited Analyte**

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BILL TO		ANALYSIS REQUEST									
Company Name:	P.O. #:										
Project Manager:	Company:										
Address:	Attn:										
City:	Address:										
Phone #:	City:										
Project #:	State:										
Project Name:	Phone #:										
Project Location:	Fax #:										
Sampler Name:											
Lab I.D.	Sample I.D.	PRESERV.		SAMPLING		DATE		TIME			
4202248	Cell 1 - T	WASTEWATER	GROUNDWATER	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	9/17	7:15	
1	Cell 2 - T	WASTEWATER	GROUNDWATER	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	9/17	8:05	
2	Cell 3 - T	WASTEWATER	GROUNDWATER	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	9/17	8:20	
3	Cell 4 - T	WASTEWATER	GROUNDWATER	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	9/17	8:40	
4	Cell 2 - V	WASTEWATER	GROUNDWATER	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	9/17	9:15	
5	Cell 3 - V	WASTEWATER	GROUNDWATER	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	9/17	9:40	
6	Cell 4 - V	WASTEWATER	GROUNDWATER	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	9/17	10:05	
7	Cell 2 - V	WASTEWATER	GROUNDWATER	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	9/17	10:30	
8	Cell 3 - V	WASTEWATER	GROUNDWATER	SLUDGE	OTHER:	ACID/BASE	ICE / COOL	OTHER:	9/17	10:30	

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Relinquished By:	Date: 9/18	Received By:	Date: 9/18
Relinquished By:	Time: 10:10	Received By:	Time: 10:10
Delivered By: (Circle One)	Sample Condition	Checked By:	Checked By:
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	(initials)	(initials)
	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		

REMARKS: Treatment + Values

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 #26

October 19, 2012

Eddie Seay
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242

RE: JAY DAN LF NM-01-0045 5YR MAINTENANCE

Enclosed are the results of analyses for samples received by the laboratory on 09/18/12 10:10.

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

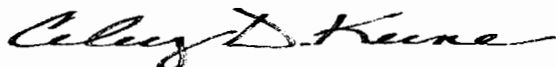
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:


Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242	Project: JAY DAN LF NM-01-0045 5YR MAIN Project Number: JAY DAN Project Manager: Eddie Seay Fax To: (505) 392-6949	Reported: 19-Oct-12 11:19
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL 1 - A	H202249-01	Soil	17-Sep-12 11:10	18-Sep-12 10:10
CELL 1 - B	H202249-02	Soil	17-Sep-12 14:15	18-Sep-12 10:10
CELL 1 - C	H202249-03	Soil	17-Sep-12 14:50	18-Sep-12 10:10
CELL 1 - D	H202249-04	Soil	17-Sep-12 15:30	18-Sep-12 10:10

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Oct-12 11:19

CELL 1 - A
H202249-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Total Metals

Arsenic	2.63	0.050 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Barium	93.7	1.00 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010B	GAL
Cadmium	0.278	0.0100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Chromium	1.82	0.100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Copper	3.30	2.00 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010	GAL
Iron	2780	5.0 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010	GAL
Lead	1.22	0.05 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Manganese	34.7	0.5 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010	GAL
Mercury	ND	0.099 mg/kg dry wt.	495	2101707	CK	03-Oct-12	7471A	GAL
Selenium	0.294	0.100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Silver	0.0254	0.0100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Uranium	0.354	0.0100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Zinc	19.0	5.0 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010	GAL

Inorganic Compounds

% Solids	94.3	%	1	2101708	CK	28-Sep-12	D2216	GAL
Chloride	ND	16.0 mg/kg	4	2101606	HM	15-Oct-12	4500-Cl-B	
Cyanide (total)	ND	0.500 mg/kg	100	2101709	CK	02-Oct-12	335.4	GAL
Fluoride	5.85	0.800 mg/kg	4	2101710	CK	28-Sep-12	4500F C	GAL
Nitrate/Nitrite as N	5.15	0.100 mg/kg dry wt.	5	2101711	CK	08-Oct-12	353.2	GAL
Nitrite as N	ND	0.080 mg/kg dry wt.	4	2101712	CK	28-Sep-12	353.2	GAL
pH*	8.25	0.100 pH Units	1	2092609	HM	26-Sep-12	150.1	
Phenols	ND	0.5 mg/kg dry wt.	1	2101713	CK	26-Sep-12	819A9065	GAL
Sulfate	ND	40.0 mg/kg	4	2101602	HM	15-Oct-12	375.4	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242	Project: JAY DAN LF NM-01-0045 5YR MAI Project Number: JAY DAN Project Manager: Eddie Seay Fax To: (505) 392-6949	Reported: 19-Oct-12 11:19
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CELL 1 - A
H202249-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Organic Compounds **SUB-SS**

PCB 1016	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1221	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1232	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1242	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1248	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1254	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1260	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
Surrogate: Tetrachloro-meta-xylene		68.9 %	35-140		2101611	CK	21-Sep-12	8082	

Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2091908	MS	20-Sep-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2091908	MS	20-Sep-12	8015M	
Surrogate: 1-Chlorooctane		73.1 %	65.2-140		2091908	MS	20-Sep-12	8015M	
Surrogate: 1-Chlorooctadecane		71.5 %	63.6-154		2091908	MS	20-Sep-12	8015M	

Radionuclides
SUB-RS

Radium-226	0.6 ± 0.1		pCi/gram	1	2101612	CK	06-Oct-12	903.1/904	
Radium-228	ND	0.80	pCi/gram	1	2101612	CK	06-Oct-12	903.1/904	
Total Radium	0.6 ± 0.1		pCi/gram	1	2101612	CK	06-Oct-12	903.1/904	

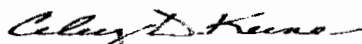
Volatile Organic Compounds by GCMS

Vinyl chloride*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Methylene chloride*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Chloroform*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Benzene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAINT
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Oct-12 11:19

CELL 1 - A
H202249-01 (Soil)

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

Volatile Organic Compounds by GCMS

Trichloroethene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Toluene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	2091906	ms	19-Sep-12	8260	
o-Xylene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Total Xylenes*	ND	0.150	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Naphthalene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Surrogate: Dibromofluoromethane		93.0 %		70-130	2091906	ms	19-Sep-12	8260	
Surrogate: Toluene-d8		102 %		70-130	2091906	ms	19-Sep-12	8260	
Surrogate: 4-Bromofluorobenzene		113 %		70-130	2091906	ms	19-Sep-12	8260	

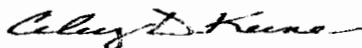
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Acenaphthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Fluorene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Phenanthrene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Anthracene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Carbazole	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Fluoranthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Pyrene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Chrysene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242	Project: JAY DAN LF NM-01-0045 5YR MAIN Project Number: JAY DAN Project Manager: Eddie Seay Fax To: (505) 392-6949	Reported: 19-Oct-12 11:19
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CELL 1 - A
H202249-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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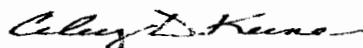
Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Benzo[b]fluoranthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Surrogate: Nitrobenzene-d5		35.4 %	16.1-91.8		2092502	ms	25-Sep-12	8270C	
Surrogate: 2-Fluorobiphenyl		33.3 %	27.2-92.9		2092502	ms	25-Sep-12	8270C	
Surrogate: Terphenyl-d14		38.4 %	21.3-96.1		2092502	ms	25-Sep-12	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Oct-12 11:19

CELL 1 - B
H202249-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Total Metals

Arsenic	3.70	0.050 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Barium	105	1.00 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010B	GAL
Cadmium	0.436	0.0100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Chromium	3.60	0.100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Copper	4.33	2.00 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010	GAL
Iron	7000	5.0 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010	GAL
Lead	3.01	0.05 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Manganese	62.0	0.5 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010	GAL
Mercury	ND	0.100 mg/kg dry wt.	500	2101707	CK	03-Oct-12	7471A	GAL
Selenium	0.283	0.100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Silver	0.0493	0.0100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Uranium	0.383	0.0100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Zinc	28.5	5.0 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010	GAL

Inorganic Compounds

% Solids	88.4	%	1	2101708	CK	28-Sep-12	D2216	GAL
Chloride	32.0	16.0 mg/kg	4	2101606	HM	15-Oct-12	4500-Cl-B	GAL
Cyanide (total)	ND	0.500 mg/kg	100	2101709	CK	02-Oct-12	335.4	GAL
Fluoride	4.78	0.800 mg/kg	4	2101710	CK	28-Sep-12	4500F C	GAL
Nitrate/Nitrite as N	13.3	0.500 mg/kg dry wt.	25	2101711	CK	08-Oct-12	353.2	GAL
Nitrite as N	ND	0.080 mg/kg dry wt.	4	2101712	CK	28-Sep-12	353.2	GAL
pH*	8.02	0.100 pH Units	1	2092609	HM	26-Sep-12	150.1	GAL
Phenols	ND	0.5 mg/kg dry wt.	1	2101713	CK	26-Sep-12	EPA9065	GAL
Sulfate	ND	40.0 mg/kg	4	2101602	HM	15-Oct-12	375.4	GAL

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAINT
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Oct-12 11:19

CELL 1 - B
H202249-02 (Soil)

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

Organic Compounds

SUB-SS

PCB 1016	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1221	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1232	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1242	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1248	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1254	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1260	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
Surrogate: Tetrachloro-meta-xylene		68.3 %	35-140		2101611	CK	21-Sep-12	8082	

Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2091908	MS	20-Sep-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2091908	MS	20-Sep-12	8015M	
Surrogate: 1-Chlorooctane		82.6 %	65.2-140		2091908	MS	20-Sep-12	8015M	
Surrogate: 1-Chlorooctadecane		83.1 %	63.6-154		2091908	MS	20-Sep-12	8015M	

Radionuclides

SUB-RS

Radium-226	ND	0.40	pCi/gram	1	2101612	CK	06-Oct-12	903.1/904	
Radium-228	ND	0.80	pCi/gram	1	2101612	CK	06-Oct-12	903.1/904	
Total Radium	ND	0.80	pCi/gram	1	2101612	CK	06-Oct-12	903.1/904	

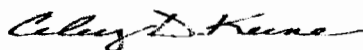
Volatile Organic Compounds by GCMS

Vinyl chloride*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Methylene chloride*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Chloroform*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Benzene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAINT
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Oct-12 11:19

CELL 1 - B
H202249-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by GCMS

Trichloroethene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Toluene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	2091906	ms	19-Sep-12	8260	
o-Xylene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Total Xylenes*	ND	0.150	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Naphthalene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Surrogate: Dibromofluoromethane		91.3 %		70-130	2091906	ms	19-Sep-12	8260	
Surrogate: Toluene-d8		100 %		70-130	2091906	ms	19-Sep-12	8260	
Surrogate: 4-Bromofluorobenzene		109 %		70-130	2091906	ms	19-Sep-12	8260	

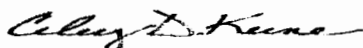
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Acenaphthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Fluorene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Phenanthrene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Anthracene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Carbazole	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Fluoranthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Pyrene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Chrysene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Oct-12 11:19

CELL 1 - B
H202249-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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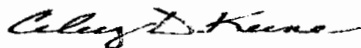
Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Benzo[b]fluoranthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Surrogate: Nitrobenzene-d5		34.8 %	16.1-91.8		2092502	ms	25-Sep-12	8270C	
Surrogate: 2-Fluorobiphenyl		34.8 %	27.2-92.9		2092502	ms	25-Sep-12	8270C	
Surrogate: Terphenyl-d14		56.7 %	21.3-96.1		2092502	ms	25-Sep-12	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Oct-12 11:19

CELL 1 - C H202249-03 (Soil)

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

Total Metals

Arsenic	2.65	0.050 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Barium	119	1.00 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010B	GAL
Cadmium	0.346	0.0100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Chromium	2.19	0.100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Copper	2.70	2.00 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010	GAL
Iron	3830	5.0 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010	GAL
Lead	1.82	0.05 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Manganese	40.7	0.5 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010	GAL
Mercury	ND	0.097 mg/kg dry wt.	485	2101707	CK	03-Oct-12	7471A	GAL
Selenium	0.236	0.100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Silver	0.0300	0.0100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Uranium	0.386	0.0100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Zinc	21.9	5.0 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010	GAL

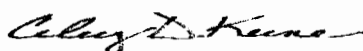
Inorganic Compounds

% Solids	90.1	%	1	2101708	CK	28-Sep-12	D2216	GAL
Chloride	16.0	16.0 mg/kg	4	2101606	HM	15-Oct-12	4500-Cl-B	GAL
Cyanide (total)	ND	0.500 mg/kg	100	2101709	CK	02-Oct-12	335.4	GAL
Fluoride	5.60	0.800 mg/kg	4	2101710	CK	28-Sep-12	4500F C	GAL
Nitrate/Nitrite as N	4.45	0.100 mg/kg dry wt.	5	2101711	CK	08-Oct-12	353.2	GAL
Nitrite as N	ND	0.080 mg/kg dry wt.	4	2101712	CK	28-Sep-12	353.2	GAL
pH*	8.17	0.100 pH Units	1	2092609	HM	26-Sep-12	150.1	GAL
Phenols	ND	0.5 mg/kg dry wt.	1	2101713	CK	26-Sep-12	EPA9065	GAL
Sulfate	ND	40.0 mg/kg	4	2101602	HM	15-Oct-12	375.4	GAL

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Oct-12 11:19

CELL 1 - C
H202249-03 (Soil)

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

Organic Compounds

SUB-SS

PCB 1016	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1221	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1232	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1242	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1248	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1254	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1260	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
Surrogate: Tetrachloro-meta-xylene		74.7 %		35-140	2101611	CK	21-Sep-12	8082	

Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2091908	MS	20-Sep-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2091908	MS	20-Sep-12	8015M	
Surrogate: 1-Chlorooctane		86.2 %		65.2-140	2091908	MS	20-Sep-12	8015M	
Surrogate: 1-Chlorooctadecane		87.5 %		63.6-154	2091908	MS	20-Sep-12	8015M	

Radionuclides

SUB-RS

Radium-226	0.5 ± 0.1		pCi/gram	1	2101612	CK	06-Oct-12	903.1/904	
Radium-228	ND	0.80	pCi/gram	1	2101612	CK	06-Oct-12	903.1/904	
Total Radium	0.5 ± 0.1		pCi/gram	1	2101612	CK	06-Oct-12	903.1/904	

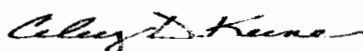
Volatile Organic Compounds by GCMS

Vinyl chloride*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Methylene chloride*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Chloroform*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Benzene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Oct-12 11:19

CELL 1 - C
H202249-03 (Soil)

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

Volatile Organic Compounds by GCMS

Trichloroethene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Toluene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	2091906	ms	19-Sep-12	8260	
o-Xylene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Total Xylenes*	ND	0.150	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Naphthalene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Surrogate: Dibromofluoromethane		92.8 %		70-130	2091906	ms	19-Sep-12	8260	
Surrogate: Toluene-d8		102 %		70-130	2091906	ms	19-Sep-12	8260	
Surrogate: 4-Bromofluorobenzene		107 %		70-130	2091906	ms	19-Sep-12	8260	

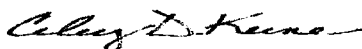
Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Acenaphthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Fluorene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Phenanthrene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Anthracene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Carbazole	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Fluoranthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Pyrene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Chrysene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF NM-01-0045 5YR MAIN
 Project Number: JAY DAN
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 19-Oct-12 11:19

CELL 1 - C
H202249-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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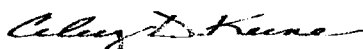
Cardinal Laboratories
Semivolatile Organic Compounds by GCMS

Benzo[b]fluoranthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Surrogate: Nitrobenzene-d5		30.7 %		16.1-91.8	2092502	ms	25-Sep-12	8270C	
Surrogate: 2-Fluorobiphenyl		33.0 %		27.2-92.9	2092502	ms	25-Sep-12	8270C	
Surrogate: Terphenyl-d14		40.3 %		21.3-96.1	2092502	ms	25-Sep-12	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Oct-12 11:19

CELL 1 - D H202249-04 (Soil)

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

Total Metals

Arsenic	2.80	0.050 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020		GAL
Barium	57.1	1.00 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010B		GAL
Cadmium	0.363	0.0100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020		GAL
Chromium	4.49	0.100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020		GAL
Copper	4.03	2.00 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010		GAL
Iron	9960	5.0 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010		GAL
Lead	4.72	0.05 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020		GAL
Manganese	93.2	0.5 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010		GAL
Mercury	ND	0.096 mg/kg dry wt.	481	2101707	CK	03-Oct-12	7471A		GAL
Selenium	0.318	0.100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020		GAL
Silver	0.0540	0.0100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020		GAL
Uranium	0.170	0.0100 mg/kg dry wt.	100	2101705	CK	24-Sep-12	6020		GAL
Zinc	23.1	5.0 mg/kg dry wt.	100	2101706	CK	05-Oct-12	6010		GAL

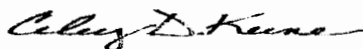
Inorganic Compounds

% Solids	91.2	%	1	2101708	CK	28-Sep-12	D2216		GAL
Chloride	ND	16.0 mg/kg	4	2101606	HM	15-Oct-12	4500-Cl-B		
Cyanide (total)	ND	0.500 mg/kg	100	2101709	CK	02-Oct-12	335.4		GAL
Fluoride	1.59	0.800 mg/kg	4	2101710	CK	28-Sep-12	4500F C		GAL
Nitrate/Nitrite as N	18.4	0.500 mg/kg dry wt.	25	2101711	CK	08-Oct-12	353.2		GAL
Nitrite as N	0.265	0.080 mg/kg dry wt.	4	2101712	CK	28-Sep-12	353.2		GAL
pH*	7.54	0.100 pH Units	1	2092609	HM	26-Sep-12	150.1		
Phenols	ND	0.5 mg/kg dry wt.	1	2101713	CK	26-Sep-12	EPA9065		GAL
Sulfate	ND	40.0 mg/kg	4	2101602	HM	15-Oct-12	375.4		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Oct-12 11:19

CELL 1 - D H202249-04 (Soil)

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

Organic Compounds

SUB-SS

PCB 1016	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1221	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1232	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1242	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1248	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1254	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
PCB 1260	ND	10.0	ug/kg	1	2101611	CK	21-Sep-12	8082	
Surrogate: Tetrachloro-meta-xylene		81.3 %		35-140	2101611	CK	21-Sep-12	8082	

Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2091908	MS	20-Sep-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2091908	MS	20-Sep-12	8015M	
Surrogate: 1-Chlorooctane		87.9 %		65.2-140	2091908	MS	20-Sep-12	8015M	
Surrogate: 1-Chlorooctadecane		89.6 %		63.6-154	2091908	MS	20-Sep-12	8015M	

Radionuclides

SUB-RS

Radium-226	0.7 ± 0.1		pCi/gram	1	2101612	CK	06-Oct-12	903.1/904	
Radium-228	ND	0.80	pCi/gram	1	2101612	CK	06-Oct-12	903.1/904	
Total Radium	0.7 ± 0.1		pCi/gram	1	2101612	CK	06-Oct-12	903.1/904	


Volatile Organic Compounds by GCMS

Vinyl chloride*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1-Dichloroethene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Methylene chloride*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1-Dichloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Chloroform*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Carbon tetrachloride*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1,1-Trichloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Benzene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,2-Dichloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Oct-12 11:19

CELL 1 - D H202249-04 (Soil)

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

Volatile Organic Compounds by GCMS

Trichloroethene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Toluene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Tetrachloroethene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1,2-Trichloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Ethylbenzene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
m-p Xylenes*	ND	0.100	mg/kg	50	2091906	ms	19-Sep-12	8260	
o-Xylene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Total Xylenes*	ND	0.150	mg/kg	50	2091906	ms	19-Sep-12	8260	
1,1,2,2-Tetrachloroethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Naphthalene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Surrogate: Dibromofluoromethane		92.8 %		70-130	2091906	ms	19-Sep-12	8260	
Surrogate: Toluene-d8		103 %		70-130	2091906	ms	19-Sep-12	8260	
Surrogate: 4-Bromofluorobenzene		109 %		70-130	2091906	ms	19-Sep-12	8260	


Semivolatile Organic Compounds by GCMS

Naphthalene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
2-Methylnaphthalene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
1-Methylnaphthalene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Acenaphthylene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Acenaphthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Fluorene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Phenanthrene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Anthracene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Carbazole	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Fluoranthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Pyrene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[a]anthracene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Chrysene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242	Project: JAY DAN LF NM-01-0045 5YR MAIN Project Number: JAY DAN Project Manager: Eddie Seay Fax To: (505) 392-6949	Reported: 19-Oct-12 11:19
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CELL 1 - D H202249-04 (Soil)

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

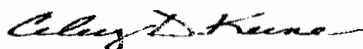
Semivolatile Organic Compounds by GCMS

Benzo[b]fluoranthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[k]fluoranthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[a]pyrene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Dibenz[a,h]anthracene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[g,h,i]perylene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Surrogate: Nitrobenzene-d5		43.6 %		16.1-91.8	2092502	ms	25-Sep-12	8270C	
Surrogate: 2-Fluorobiphenyl		34.4 %		27.2-92.9	2092502	ms	25-Sep-12	8270C	
Surrogate: Terphenyl-d14		41.8 %		21.3-96.1	2092502	ms	25-Sep-12	8270C	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242	Project: JAY DAN LF NM-01-0045 5YR MAIN Project Number: JAY DAN Project Manager: Eddie Seay Fax To: (505) 392-6949	Reported: 19-Oct-12 11:19
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Total Metals by ICPMS - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2101705 - EPA 3050

Blank (2101705-BLK1)

Prepared & Analyzed: 24-Sep-12

Chromium	ND	0.001	mg/kg dry wt.
Arsenic	ND	0.0005	mg/kg dry wt.
Lead	ND	0.0005	mg/kg dry wt.
Silver	ND	0.0001	mg/kg dry wt.
Cadmium	ND	0.0001	mg/kg dry wt.
Selenium	ND	0.001	mg/kg dry wt.
Uranium	ND	0.0001	mg/kg dry wt.

LCS (2101705-BS1)

Prepared & Analyzed: 24-Sep-12

Arsenic	0.055		mg/L	0.0500	111	85-115
Lead	0.05		mg/L	0.0500	105	85-115
Silver	0.0530		mg/L	0.0500	106	85-115
Uranium	0.0504		mg/kg	0.0500	101	85-115
Cadmium	0.0541		mg/L	0.0500	108	85-115
Chromium	0.056		mg/L	0.0500	112	85-115
Selenium	0.283		mg/L	0.250	113	85-115

LCS Dup (2101705-BSD1)

Prepared & Analyzed: 24-Sep-12

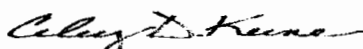
Cadmium	0.0543		mg/L	0.0500	109	85-115	0.369	20
Arsenic	0.053		mg/L	0.0500	106	85-115	4.05	20
Lead	0.05		mg/L	0.0500	101	85-115	3.68	20
Uranium	0.0532		mg/kg	0.0500	106	85-115	5.41	20
Chromium	0.051		mg/L	0.0500	103	85-115	8.21	20
Selenium	0.270		mg/L	0.250	108	85-115	4.70	20
Silver	0.0524		mg/L	0.0500	105	85-115	1.14	20

Batch 2101706 - EPA 3050

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242	Project: JAY DAN LF NM-01-0045 5YR MAIN Project Number: JAY DAN Project Manager: Eddie Seay Fax To: (505) 392-6949	Reported: 19-Oct-12 11:19
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Total Metals - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 2101706 - EPA 3050

Blank (2101706-BLK1) Prepared: 03-Oct-12 Analyzed: 05-Oct-12

Barium	ND	0.0100	mg/kg dry wt.						
Manganese	ND	0.005	mg/kg dry wt.						
Iron	ND	0.05	mg/kg dry wt.						
Copper	ND	0.02	mg/kg dry wt.						
Zinc	ND	0.05	mg/kg dry wt.						

LCS (2101706-BS1) Prepared: 03-Oct-12 Analyzed: 05-Oct-12

Zinc	1.9		mg/kg	2.00		96.5	85-115		
Barium	1.96		mg/kg	2.00		98.0	85-115		
Copper	4.04		mg/kg	4.00		101	85-115		
Iron	4.0		mg/kg	4.00		100	85-115		
Manganese	2.0		mg/kg	2.00		99.0	85-115		

LCS Dup (2101706-BSD1) Prepared: 03-Oct-12 Analyzed: 05-Oct-12

Iron	4.0		mg/kg	4.00		98.8	85-115	1.26	20
Manganese	2.0		mg/kg	2.00		98.5	85-115	0.506	20
Zinc	1.9		mg/kg	2.00		96.5	85-115	0.00	20
Copper	4.03		mg/kg	4.00		101	85-115	0.248	20
Barium	1.93		mg/kg	2.00		96.5	85-115	1.54	20

Batch 2101707 - EPA 7471

Blank (2101707-BLK1) Prepared: 02-Oct-12 Analyzed: 03-Oct-12

Mercury	ND	0.100	mg/kg dry wt.						
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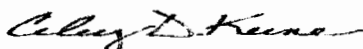
LCS (2101707-BS1) Prepared: 02-Oct-12 Analyzed: 03-Oct-12

Mercury	1.05		mg/kg	1.00		105	85-115		
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Oct-12 11:19

Mercury (Total) by CVAA - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2101707 - EPA 7471**LCS Dup (2101707-BSD1)**

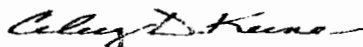
Prepared: 02-Oct-12 Analyzed: 03-Oct-12

Mercury	1.03		mg/kg	1.00		103	85-115	1.92	20	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242	Project: JAY DAN LF NM-01-0045 5YR MAIN Project Number: JAY DAN Project Manager: Eddie Seay Fax To: (505) 392-6949	Reported: 19-Oct-12 11:19
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Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2092609 - General Prep - Wet Chem

LCS (2092609-BS1)		Prepared & Analyzed: 26-Sep-12								
pH	7.03		pH Units	7.00		100	90-110			
Duplicate (2092609-DUP1)		Source: H202249-01		Prepared & Analyzed: 26-Sep-12						
pH	7.23	0.100	pH Units		8.25			13.2	20	

Batch 2101602 - General Prep - Wet Chem

Blank (2101602-BLK1)		Prepared & Analyzed: 15-Oct-12								
Sulfate	ND	10.0	mg/kg							
LCS (2101602-BS1)		Prepared & Analyzed: 15-Oct-12								
Sulfate	16.4	10.0	mg/kg	20.0		82.0	80-120			
LCS Dup (2101602-BSD1)		Prepared & Analyzed: 15-Oct-12								
Sulfate	16.2	10.0	mg/kg	20.0		81.0	80-120	1.23	20	

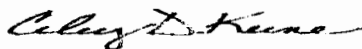
Batch 2101606 - 1:4 DI Water

Blank (2101606-BLK1)		Prepared: 15-Oct-12 Analyzed: 16-Oct-12								
Chloride	ND	16.0	mg/kg							
LCS (2101606-BS1)		Prepared: 15-Oct-12 Analyzed: 16-Oct-12								
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (2101606-BSD1)		Prepared: 15-Oct-12 Analyzed: 16-Oct-12								
Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242	Project: JAY DAN LF NM-01-0045 SYR MAIN Project Number: JAY DAN Project Manager: Eddie Seay Fax To: (505) 392-6949	Reported: 19-Oct-12 11:19
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Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 2101709 - General Prep

Blank (2101709-BLK1)		Prepared: 01-Oct-12 Analyzed: 02-Oct-12							
Cyanide (total)	ND	0.00500	mg/kg						
LCS (2101709-BS1)		Prepared: 01-Oct-12 Analyzed: 02-Oct-12							
Cyanide (total)	0.0511		mg/L	0.0500		102 85-115			
LCS Dup (2101709-BSD1)		Prepared: 01-Oct-12 Analyzed: 02-Oct-12							
Cyanide (total)	0.0516		mg/L	0.0500		103 85-115	0.974	20	

Batch 2101710 - General Prep

Blank (2101710-BLK1)		Prepared & Analyzed: 28-Sep-12							
Fluoride	ND	0.200	mg/kg						
LCS (2101710-BS1)		Prepared & Analyzed: 28-Sep-12							
Fluoride	1.01		mg/L	1.00		101 85-115			
LCS Dup (2101710-BSD1)		Prepared & Analyzed: 28-Sep-12							
Fluoride	1.06		mg/L	1.00		106 85-115	4.83	20	


Batch 2101711 - General Prep

Blank (2101711-BLK1)		Prepared: 05-Oct-12 Analyzed: 08-Oct-12							
Nitrate/Nitrite as N	0.023	0.020	mg/kg dry wt.						B
LCS (2101711-BS1)		Prepared: 05-Oct-12 Analyzed: 08-Oct-12							
Nitrate/Nitrite as N	0.108		mg/L	0.100		108 85-115			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242	Project: JAY DAN LF NM-01-0045 5YR MAIN Project Number: JAY DAN Project Manager: Eddie Seay Fax To: (505) 392-6949	Reported: 19-Oct-12 11:19
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Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2101711 - General Prep
LCS Dup (2101711-BSD1)

Prepared: 05-Oct-12 Analyzed: 08-Oct-12

Nitrate/Nitrite as N	0.108		mg/L	0.100		108	85-115	0.462	20	
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Batch 2101712 - General Prep
Blank (2101712-BLK1)

Prepared: 26-Sep-12 Analyzed: 28-Sep-12

Nitrite as N	ND	0.020	mg/kg dry wt.							
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LCS (2101712-BS1)

Prepared: 26-Sep-12 Analyzed: 28-Sep-12

Nitrite as N	0.094		mg/L	0.100		94.0	85-115			
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LCS Dup (2101712-BSD1)

Prepared: 26-Sep-12 Analyzed: 28-Sep-12

Nitrite as N	0.103		mg/L	0.100		103	85-115	9.14	20	
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Batch 2101713 - General Prep
Blank (2101713-BLK1)

Prepared & Analyzed: 26-Sep-12

Phenols	ND	0.5	mg/kg dry wt.							
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LCS (2101713-BS1)

Prepared & Analyzed: 26-Sep-12

Phenols	0.4		mg/kg	0.400		92.8	70-130			
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Matrix Spike (2101713-MS1)

Source: H202249-02

Prepared & Analyzed: 26-Sep-12

Phenols	4.2		mg/kg	4.08	0.0	103	70-130			
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Matrix Spike Dup (2101713-MSD1)

Source: H202249-02

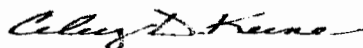
Prepared & Analyzed: 26-Sep-12

Phenols	4.2		mg/kg	4.08	0.0	102	70-130	0.478	20	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242	Project: JAY DAN LF NM-01-0045 5YR MAINT Project Number: JAY DAN Project Manager: Eddie Seay Fax To: (505) 392-6949	Reported: 19-Oct-12 11:19
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Organic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 2101611 - 3550
Blank (2101611-BLK1)

Prepared & Analyzed: 21-Sep-12

PCB 1016	ND	10.0	ug/kg						
PCB 1221	ND	10.0	ug/kg						
PCB 1232	ND	10.0	ug/kg						
PCB 1242	ND	10.0	ug/kg						
PCB 1248	ND	10.0	ug/kg						
PCB 1254	ND	10.0	ug/kg						
PCB 1260	ND	10.0	ug/kg						

Surrogate: Tetrachloro-meta-xylene 6.92 ug/L 10.0 69.2 35-140

LCS (2101611-BS1)

Prepared & Analyzed: 21-Sep-12

PCB 1016	86.7		ug/L	100		86.7	40-130		
PCB 1260	89.3		ug/L	100		89.3	40-130		

Surrogate: Tetrachloro-meta-xylene 6.82 ug/L 10.0 68.2 35-140

LCS Dup (2101611-BSD1)

Prepared & Analyzed: 21-Sep-12


PCB 1016	102		ug/L	100		102	40-130	16.2	30
PCB 1260	103		ug/L	100		103	40-130	14.2	30

Surrogate: Tetrachloro-meta-xylene 9.88 ug/L 10.0 98.8 35-140

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Oct-12 11:19

Organic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2091908 - General Prep - Organics

Blank (2091908-BLK1)

Prepared: 19-Sep-12 Analyzed: 20-Sep-12

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	44.8		mg/kg	50.0		89.7	65.2-140			
Surrogate: 1-Chlorooctadecane	46.3		mg/kg	50.5		91.6	63.6-154			

LCS (2091908-BS1)

Prepared: 19-Sep-12 Analyzed: 20-Sep-12

GRO C6-C10	169	10.0	mg/kg	200		84.6	66.4-124			
DRO >C10-C28	172	10.0	mg/kg	200		86.1	61.6-132			
Total TPH C6-C28	341	10.0	mg/kg	400		85.4	69.7-122			
Surrogate: 1-Chlorooctane	42.0		mg/kg	50.0		84.0	65.2-140			
Surrogate: 1-Chlorooctadecane	40.1		mg/kg	50.5		79.4	63.6-154			

LCS Dup (2091908-BSD1)


Prepared: 19-Sep-12 Analyzed: 20-Sep-12

GRO C6-C10	188	10.0	mg/kg	200		94.1	66.4-124	10.6	23.4	
DRO >C10-C28	191	10.0	mg/kg	200		95.7	61.6-132	10.6	23.1	
Total TPH C6-C28	380	10.0	mg/kg	400		94.9	69.7-122	10.6	20.6	
Surrogate: 1-Chlorooctane	47.7		mg/kg	50.0		95.4	65.2-140			
Surrogate: 1-Chlorooctadecane	46.9		mg/kg	50.5		92.9	63.6-154			

Cardinal Laboratories

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Oct-12 11:19

Volatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2091906 - Volatiles

Blank (2091906-BLK1)

Prepared & Analyzed: 19-Sep-12

Vinyl chloride	ND	0.0500	mg/kg							
1,1-Dichloroethene	ND	0.0500	mg/kg							
Methylene chloride	ND	0.0500	mg/kg							
1,1-Dichloroethane	ND	0.0500	mg/kg							
Chloroform	ND	0.0500	mg/kg							
Carbon tetrachloride	ND	0.0500	mg/kg							
1,1,1-Trichloroethane	ND	0.0500	mg/kg							
Benzene	ND	0.0500	mg/kg							
1,2-Dichloroethane	ND	0.0500	mg/kg							
Trichloroethene	ND	0.0500	mg/kg							
Toluene	ND	0.0500	mg/kg							
Tetrachloroethene	ND	0.0500	mg/kg							
1,1,2-Trichloroethane	ND	0.0500	mg/kg							
1,2-Dibromoethane	ND	0.0500	mg/kg							
Ethylbenzene	ND	0.0500	mg/kg							
m-p Xylenes	ND	0.100	mg/kg							
o-Xylene	ND	0.0500	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
1,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg							
Naphthalene	ND	0.0500	mg/kg							
Surrogate: Dibromofluoromethane	0.440		mg/kg	0.500		88.1	70-130			
Surrogate: Toluene-d8	0.514		mg/kg	0.500		103	70-130			
Surrogate: 4-Bromofluorobenzene	0.573		mg/kg	0.500		115	70-130			

LCS (2091906-BS1)


Prepared & Analyzed: 19-Sep-12

Vinyl chloride	0.918	0.0500	mg/kg	1.00		91.8	70-130			
1,1-Dichloroethene	1.06	0.0500	mg/kg	1.00		106	70-130			
Methylene chloride	0.960	0.0500	mg/kg	1.00		96.0	70-130			
1,1-Dichloroethane	1.14	0.0500	mg/kg	1.00		114	70-130			
Chloroform	1.03	0.0500	mg/kg	1.00		103	70-130			
Carbon tetrachloride	1.20	0.0500	mg/kg	1.00		120	70-130			
1,1,1-Trichloroethane	1.18	0.0500	mg/kg	1.00		118	70-130			

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Oct-12 11:19

Volatile Organic Compounds by GCMS - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2091906 - Volatiles
LCS (2091906-BS1)

Prepared & Analyzed: 19-Sep-12

Benzene	1.16	0.0500	mg/kg	1.00		116	70-130			
1,2-Dichloroethane	1.10	0.0500	mg/kg	1.00		110	70-130			
Trichloroethene	1.20	0.0500	mg/kg	1.00		120	70-130			
Toluene	1.14	0.0500	mg/kg	1.00		114	70-130			
Tetrachloroethene	1.07	0.0500	mg/kg	1.00		107	70-130			
1,1,2-Trichloroethane	0.949	0.0500	mg/kg	1.00		94.9	70-130			
1,2-Dibromoethane	1.02	0.0500	mg/kg	1.00		102	70-130			
Ethylbenzene	1.20	0.0500	mg/kg	1.00		120	70-130			
m-p Xylenes	2.17	0.100	mg/kg	2.00		109	70-130			
o-Xylene	1.16	0.0500	mg/kg	1.00		116	70-130			
Total Xylenes	3.34	0.150	mg/kg	3.00		111	70-130			
1,1,2,2-Tetrachloroethane	0.930	0.0500	mg/kg	1.00		93.0	70-130			
Naphthalene	1.15	0.0500	mg/kg	1.00		115	70-130			
Surrogate: Dibromofluoromethane	0.449		mg/kg	0.500		89.8	70-130			
Surrogate: Toluene-d8	0.512		mg/kg	0.500		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.620		mg/kg	0.500		124	70-130			

LCS Dup (2091906-BSD1)


Prepared & Analyzed: 19-Sep-12

Vinyl chloride	0.890	0.0500	mg/kg	1.00		89.0	70-130	3.14	20	
1,1-Dichloroethene	1.07	0.0500	mg/kg	1.00		107	70-130	1.23	20	
Methylene chloride	0.951	0.0500	mg/kg	1.00		95.1	70-130	0.901	20	
1,1-Dichloroethane	1.13	0.0500	mg/kg	1.00		113	70-130	0.656	20	
Chloroform	1.03	0.0500	mg/kg	1.00		103	70-130	0.544	20	
Carbon tetrachloride	1.18	0.0500	mg/kg	1.00		118	70-130	2.27	20	
1,1,1-Trichloroethane	1.19	0.0500	mg/kg	1.00		119	70-130	1.04	20	
Benzene	1.14	0.0500	mg/kg	1.00		114	70-130	1.74	20	
1,2-Dichloroethane	1.12	0.0500	mg/kg	1.00		112	70-130	1.52	20	
Trichloroethene	1.18	0.0500	mg/kg	1.00		118	70-130	2.08	20	
Toluene	1.11	0.0500	mg/kg	1.00		111	70-130	2.69	20	
Tetrachloroethene	1.07	0.0500	mg/kg	1.00		107	70-130	0.126	20	
1,1,2-Trichloroethane	0.946	0.0500	mg/kg	1.00		94.6	70-130	0.287	20	
1,2-Dibromoethane	1.03	0.0500	mg/kg	1.00		103	70-130	1.03	20	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF NM-01-0045 5YR MAIN
 Project Number: JAY DAN
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 19-Oct-12 11:19

Volatile Organic Compounds by GCMS - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2091906 - Volatiles
LCS Dup (2091906-BSD1)

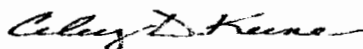
Prepared & Analyzed: 19-Sep-12

Ethylbenzene	1.17	0.0500	mg/kg	1.00		117	70-130	2.02	20	
m-p Xylenes	2.13	0.100	mg/kg	2.00		106	70-130	2.22	20	
o-Xylene	1.14	0.0500	mg/kg	1.00		114	70-130	2.30	20	
Total Xylenes	3.26	0.150	mg/kg	3.00		109	70-130	2.25	20	
1,1,2,2-Tetrachloroethane	0.935	0.0500	mg/kg	1.00		93.5	70-130	0.574	20	
Naphthalene	1.13	0.0500	mg/kg	1.00		113	70-130	1.33	20	
Surrogate: Dibromofluoromethane	0.459		mg/kg	0.500		91.8	70-130			
Surrogate: Toluene-d8	0.506		mg/kg	0.500		101	70-130			
Surrogate: 4-Bromofluorobenzene	0.613		mg/kg	0.500		123	70-130			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Oct-12 11:19

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2092502 - SW846-3510

Blank (2092502-BLK1)

Prepared & Analyzed: 25-Sep-12

Naphthalene	ND	0.040	mg/kg							
2-Methylnaphthalene	ND	0.040	mg/kg							
1-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Acenaphthene	ND	0.040	mg/kg							
Fluorene	ND	0.040	mg/kg							
Phenanthrene	ND	0.040	mg/kg							
Anthracene	ND	0.040	mg/kg							
Carbazole	ND	0.040	mg/kg							
Fluoranthene	ND	0.040	mg/kg							
Pyrene	ND	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							
Chrysene	ND	0.040	mg/kg							
Benzo[b]fluoranthene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Surrogate: Nitrobenzene-d5	0.763		mg/kg	2.00		38.2	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	0.695		mg/kg	2.00		34.8	27.2-92.9			
Surrogate: Terphenyl-d14	0.852		mg/kg	2.00		42.6	21.3-96.1			

LCS (2092502-BS1)

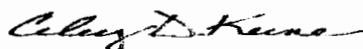
Prepared & Analyzed: 25-Sep-12

Naphthalene	0.210	0.040	mg/kg	0.500		42.1	5.46-157			
2-Methylnaphthalene	0.215	0.040	mg/kg	0.500		43.0	16.1-146			
Acenaphthylene	0.262	0.040	mg/kg	0.500		52.4	21.6-144			
Acenaphthene	0.270	0.040	mg/kg	0.500		54.1	27-143			
Fluorene	0.308	0.040	mg/kg	0.500		61.7	30.9-138			
Phenanthrene	0.299	0.040	mg/kg	0.500		59.9	38.6-149			
Anthracene	0.271	0.040	mg/kg	0.500		54.3	36.1-149			
Carbazole	0.249	0.040	mg/kg	0.500		49.8	29.8-144			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Oct-12 11:19

Semivolatile Organic Compounds by GCMS - Quality Control

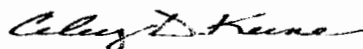
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2092502 - SW846-3510										
LCS (2092502-BS1)										
Prepared & Analyzed: 25-Sep-12										
Fluoranthene	0.263	0.040	mg/kg	0.500		52.5	34.6-148			
Pyrene	0.307	0.040	mg/kg	0.500		61.4	24.8-154			
Benzo[a]anthracene	0.287	0.040	mg/kg	0.500		57.4	0-179			
Chrysene	0.278	0.040	mg/kg	0.500		55.5	35.1-150			
Benzo[b]fluoranthene	0.282	0.040	mg/kg	0.500		56.5	17.6-158			
Benzo[k]fluoranthene	0.343	0.040	mg/kg	0.500		68.5	10.6-169			
Benzo[a]pyrene	0.282	0.040	mg/kg	0.500		56.5	2.25-166			
Indeno[1,2,3-cd]pyrene	0.243	0.040	mg/kg	0.500		48.5	0-181			
Dibenz[a,h]anthracene	0.254	0.040	mg/kg	0.500		50.9	2.49-177			
Benzo[g,h,i]perylene	0.255	0.040	mg/kg	0.500		51.1	0-173			
Surrogate: Nitrobenzene-d5	0.650		mg/kg	2.00		32.5	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	0.721		mg/kg	2.00		36.1	27.2-92.9			
Surrogate: Terphenyl-d4	0.994		mg/kg	2.00		49.7	21.3-96.1			
LCS Dup (2092502-BSD1)										
Prepared & Analyzed: 25-Sep-12										
Naphthalene	0.214	0.040	mg/kg	0.500		42.8	5.46-157	1.72	6.7	
2-Methylnaphthalene	0.222	0.040	mg/kg	0.500		44.5	16.1-146	3.36	8.99	
Acenaphthylene	0.271	0.040	mg/kg	0.500		54.1	21.6-144	3.28	14.6	
Acenaphthene	0.270	0.040	mg/kg	0.500		54.0	27-143	0.178	6.99	
Fluorene	0.315	0.040	mg/kg	0.500		63.0	30.9-138	2.08	13.9	
Phenanthrene	0.304	0.040	mg/kg	0.500		60.8	38.6-149	1.49	14.6	
Anthracene	0.284	0.040	mg/kg	0.500		56.9	36.1-149	4.63	18.5	
Carbazole	0.279	0.040	mg/kg	0.500		55.9	29.8-144	11.5	23.4	
Fluoranthene	0.294	0.040	mg/kg	0.500		58.9	34.6-148	11.4	19.7	
Pyrene	0.337	0.040	mg/kg	0.500		67.5	24.8-154	9.49	23	
Benzo[a]anthracene	0.292	0.040	mg/kg	0.500		58.3	0-179	1.61	32.5	
Chrysene	0.272	0.040	mg/kg	0.500		54.5	35.1-150	1.88	19.4	
Benzo[b]fluoranthene	0.302	0.040	mg/kg	0.500		60.3	17.6-158	6.62	31.4	
Benzo[k]fluoranthene	0.340	0.040	mg/kg	0.500		68.0	10.6-169	0.776	44.6	
Benzo[a]pyrene	0.286	0.040	mg/kg	0.500		57.1	2.25-166	1.15	60.5	
Indeno[1,2,3-cd]pyrene	0.198	0.040	mg/kg	0.500		39.6	0-181	20.2	77	
Dibenz[a,h]anthracene	0.201	0.040	mg/kg	0.500		40.3	2.49-177	23.2	63.3	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN
Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
19-Oct-12 11:19

Semivolatile Organic Compounds by GCMS - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2092502 - SW846-3510**LCS Dup (2092502-BSD1)**

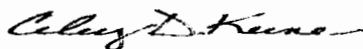
Prepared & Analyzed: 25-Sep-12

Benzo[g,h,i]perylene	0.204	0.040	mg/kg	0.500		40.7	0-173	22.6	77.4	
Surrogate: Nitrobenzene-d5	0.642		mg/kg	2.00		32.1	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	0.749		mg/kg	2.00		37.5	27.2-92.9			
Surrogate: Terphenyl-d14	1.05		mg/kg	2.00		52.5	21.3-96.1			

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Caley D. Keene, Lab Director/Quality Manager

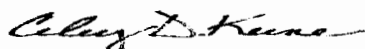
Notes and Definitions

Z-01b	0.7 ± 0.1
Z-01a	0.6 ± 0.1
Z-01	0.5 ± 0.1
SUB-SS	Analysis subcontracted to SunStar Laboratories, Inc.
SUB-RS	Analysis subcontracted to Radiation Safety Engineering, Inc.
GAL	Analysis subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.
B	Analyte is found in the associated blank as well as in the sample (CLP B-flag).
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

Cardinal Laboratories

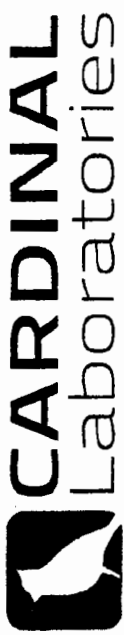
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Celey D. Keene, Lab Director/Quality Manager

10/3



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: Eddies Sam Consulting		P.O. #:		ANALYSIS REQUEST	
Project Manager: Eddie Sam		Company:			
Address: 621 W Illinois		Attn: Sam			
City: Hobbs		Address: 88240			
Phone #: 2-2236		State: NM			
Fax #: 2-6949		City: Sam			
Project #: Sam Don		Project Owner: D. Watson			
Project Name: Sam Don LE (NM-01-0045)		State: Sam			
Project Location: NW SW Sub 32 T.15 R.35		Phone #:			
Sampler Name: Eddie Sam (Sgt. Montoya)		Fax #:			

Lab I.D.	Sample I.D.	PRESERV		SAMPLING	
		DATE	TIME	DATE	TIME
4202849					
1 Cell 1-A		9/17	11:10		
2 Cell 1-B		9/17	2:15		
3 Cell 1-C		9/17	2:50		
4 Cell 1-D		9/17	3:30		

MATRIX	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

FOR LAB USE ONLY	CONTAINERS	(G)RAB OR (C)OMP	DATE	TIME
	✓	✓	9/17	11:10
	✓	✓	9/17	2:15
	✓	✓	9/17	2:50
	✓	✓	9/17	3:30

Lab I.D.	Sample I.D.	DATE	TIME	ANALYSIS REQUEST
				BTX
				TPH (8015)
				Chlorides
				Arsenic
				Boric Acid
				Cadmium
				Cyanide
				Lead
				Manganese
				Silicon
				Silver
				PCB

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Relinquished By: Eddie Sam	Date: 9/18	Received By: Eddie Sam	Date: 10:10
Relinquished By:	Time:	Received By:	Time:
Delivered By: (Circle One)	Sample Condition	Checked By: (Initials)	
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		
	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		

REMARKS: **20-e-2-3103 A+B**

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 #26

2 of 3



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Edwin Sam Consulting</u>		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Edwin Sam</u>		P.O. #:			
Address: <u>1001 W ILLINOIS</u>		Company:			
City: <u>Hobbs</u>		Attn:			
Phone #: <u>2-22234</u>		State: <u>NM</u> Zip: <u>88240</u>			
Project #: <u>2-22234</u>		Fax #: <u>2-6949</u>			
Project Name: <u>Jan Dan LF (0045)</u>		Project Owner: <u>D. Wilson</u>			
Project Location: <u>10150 SW 32nd R 25</u>		City:			
Sampler Name: <u>Edwin Sam</u>		State:			
		Phone #:			
		Fax #:			

Lab I.D.	Sample I.D.	MATRIX			PRESERV	SAMPLING	DATE	TIME
		CONTAINERS	GROUNDWATER	WASTEWATER				
1	001-1-A	✓				9/17	11:10	
2	001-1-B	✓				9/17	2:16	
3	001-1-C	✓				9/17	2:50	
4	001-1-D	✓				9/17	3:30	

ANALYSIS REQUEST	OTHER:	ACID/BASE:	ICE / COOL:	OTHER:
Benzene - a - pyrene				
Copper				
Iron				
Manganese				
Silicate				
Zinc				
Ra 226 & Ra 228				
Uranium				
Phenols				
P H				
Carbon Tetrahydro				

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Relinquished By: <u>Edwin Sam</u>	Date: <u>9/18</u>	Received By: <u>Edwin Sam</u>	Date: <u>10:10</u>
Relinquished By:		Received By:	
Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> (initials) <u>JS</u> Delivered By: (Circle One) <u>30</u> Sampler - UPS - Bus - Other:			
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #: REMARKS:			



593

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

Company Name: Edwin Sam Consulting		P.O. #:		Company:		Analysis Request:	
Project Manager: Edwin Sam		State: NM Zip: 87240		Attn: Sam		EDC	
Address: 601 W IH 10 W		Phone #: 2-2236		Address: Sam		DCE	
City: Hobbs		Fax #: 2-6949		City: 		PCE	
Project #: Sam Dan		Project Owner: D. Watson		State: Zip: 		TCE	
Project Name: Sam Dan LF (0045)		Project Location: NW(SW) S132 T.15 R.35		Phone #: 		Methylene Chloride	
Sampler Name: Edwin Sam		Matrix:		Preserv:		Chloroform	
FOR LAB USE ONLY		# CONTAINERS		ACID/BASE:		EDB	
Lab I.D.		GROUNDWATER		OTHER:		Tetrachloroethane	
Sample I.D.		WASTEWATER		ICE/COOL		Vinyl Chloride	
H207249		OIL		OTHER:		Polycyclic Aromatic Hydrocarbons	
1 Col 1 - A		SLUDGE		DATE		TIME	
2 Col 1 - B		SOIL		9/17		11:10	
3 Col 1 - C		GROUNDWATER		9/17		2:15	
4 Col 1 - D		WASTEWATER		9/17		2:50	
		OIL		9/17		3:30	
		SLUDGE					
		OTHER:					
		ACID/BASE:					
		ICE/COOL					
		OTHER:					

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Relinquished By: Edwin Sam	Received By: Edwin Sam	Date: 9/18	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No
Relinquished By: Edwin Sam	Received By: Edwin Sam	Date: 10/10	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No
REMARKS:			

Delivered By: (Circle One)	Checked By: (Initials)	Sample Condition	Cool <input type="checkbox"/> Intact <input type="checkbox"/>
Sampler - UPS - Bus - Other:		Yes <input type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>

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March 14, 2012

RECEIVED OCD

2012 MAR 15 A 9:21

NMOCD Environmental
ATTN: Brad Jones
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Jay Dan Landfarm (NM-01-0045)
Semi-Annual Sampling

Mr. Jones:

Find within the semi-annual sampling for both the treatment zone and vadose zone as required.

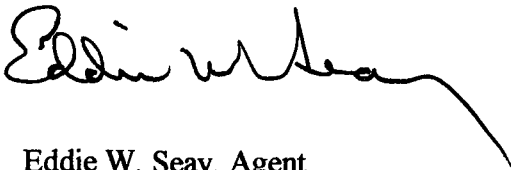
The treatment zone samples were taken at two to four inches of surface making one composite from four discrete samples for each cell, testing for TPH and Chloride.

The vadose zone samples were taken at approximately three feet below the natural surface level. There were four randomly selected samples from each cell, testing for BTEX, TPH and Chloride. I also composited the four vadose samples to make a sample to be analyzed for WQCC metals, for each cell.

We will continue to operate and maintain the facility as our permit and rule 36 requires. We will be sampling the cells for the "Five Year Monitoring" on the next sampling event.

If you have any questions or need anything further, please call.

Sincerely,



Eddie W. Seay, Agent
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242
575-392-2236
seay04@leaco.net

cc: Jay Dan Landfarm

March 09, 2012

Eddie Seay

Eddie Seay Consulting

601 W. Illinois

Hobbs, NM 88242

RE: JAY DAN LF (NM.01.0045)

Enclosed are the results of analyses for samples received by the laboratory on 02/17/12 9:45.

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

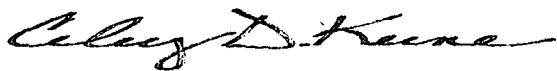
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

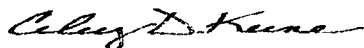
Analytical Results For:Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949Reported:
09-Mar-12 17:00

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CELL 1 - 1T	H200433-01	Soil	15-Feb-12 14:30	17-Feb-12 09:45
CELL 1 - 1V	H200433-02	Soil	16-Feb-12 07:20	17-Feb-12 09:45
CELL 1 - 2V	H200433-03	Soil	16-Feb-12 07:50	17-Feb-12 09:45
CELL 1 - 3V	H200433-04	Soil	16-Feb-12 08:30	17-Feb-12 09:45
CELL 1 - 4V	H200433-05	Soil	16-Feb-12 09:10	17-Feb-12 09:45
CELL 1 - 5M	H200433-06	Soil	16-Feb-12 09:20	17-Feb-12 09:45
CELL 2 - 1T	H200433-07	Soil	15-Feb-12 15:15	17-Feb-12 09:45
CELL 2 - 1V	H200433-08	Soil	16-Feb-12 10:00	17-Feb-12 09:45
CELL 2 - 2V	H200433-09	Soil	16-Feb-12 10:35	17-Feb-12 09:45
CELL 2 - 3V	H200433-10	Soil	16-Feb-12 11:05	17-Feb-12 09:45
CELL 2 - 4V	H200433-11	Soil	16-Feb-12 11:40	17-Feb-12 09:45
CELL 2 - 5H	H200433-12	Soil	16-Feb-12 11:55	17-Feb-12 09:45
CELL 3 - 1T	H200433-13	Soil	15-Feb-12 16:05	17-Feb-12 09:45
CELL 3 - 1V	H200433-14	Soil	16-Feb-12 12:30	17-Feb-12 09:45
CELL 3 - 2V	H200433-15	Soil	16-Feb-12 13:10	17-Feb-12 09:45
CELL 3 - 3V	H200433-16	Soil	16-Feb-12 13:55	17-Feb-12 09:45
CELL 3 - 4V	H200433-17	Soil	16-Feb-12 14:40	17-Feb-12 09:45
CELL 3 - 5H	H200433-18	Soil	16-Feb-12 15:10	17-Feb-12 09:45
CELL 4 - 1T	H200433-19	Soil	16-Feb-12 16:35	17-Feb-12 09:45
CELL 4 - 1V	H200433-20	Soil	16-Feb-12 16:25	17-Feb-12 09:45
CELL 4 - 2V	H200433-21	Soil	16-Feb-12 16:45	17-Feb-12 09:45
CELL 4 - 3V	H200433-22	Soil	16-Feb-12 17:15	17-Feb-12 09:45
CELL 4 - 4V	H200433-23	Soil	16-Feb-12 17:40	17-Feb-12 09:45
CELL 4 - 5H	H200433-24	Soil	16-Feb-12 18:00	17-Feb-12 09:45
JD - MW #1	H200433-25	Water	15-Feb-12 17:00	17-Feb-12 09:45

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949Reported:
09-Mar-12 17:00**CELL 1 - 1T**
H200433-01 (Soil)

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

Chloride	336	16.0	mg/kg	4	2022102	AP	21-Feb-12	4500-Cl-B	
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Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
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DRO >C10-C28	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
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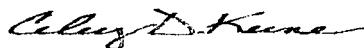
Surrogate: 1-Chlorooctane	81.1 %	55.5-154		2021708	MS	18-Feb-12	8015M		
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Surrogate: 1-Chlorooctadecane	93.4 %	57.6-158		2021708	MS	18-Feb-12	8015M		
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
09-Mar-12 17:00

CELL 1 - 1V
H200433-02 (Soil)

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

Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B	
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Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctane		88.8 %	55.5-154		2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		103 %	57.6-158		2021708	MS	18-Feb-12	8015M	

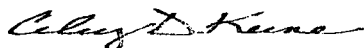
Volatile Organic Compounds by EPA Method 8021

Benzene	ND	0.050	mg/kg	50	2022101	AP	21-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2022101	AP	21-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2022101	AP	21-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2022101	AP	21-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		112 %	64.4-134		2022101	AP	21-Feb-12	8021B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 09-Mar-12 17:00

CELL 1 - 2V
H200433-03 (Soil)

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

Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B
----------	----	------	-------	---	---------	----	-----------	-----------

Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M
DRO >C10-C28	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M
Surrogate: 1-Chlorooctane	92.8 %	55.5-154		2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane	106 %	57.6-158		2021708	MS	18-Feb-12	8015M	

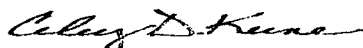
Volatile Organic Compounds by EPA Method 8021

Benzene	ND	0.050	mg/kg	50	2022101	AP	21-Feb-12	8021B
Toluene	ND	0.050	mg/kg	50	2022101	AP	21-Feb-12	8021B
Ethylbenzene	ND	0.050	mg/kg	50	2022101	AP	21-Feb-12	8021B
Total Xylenes	ND	0.150	mg/kg	50	2022101	AP	21-Feb-12	8021B
Surrogate: 4-Bromofluorobenzene (PID)	109 %	64.4-134		2022101	AP	21-Feb-12	8021B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 09-Mar-12 17:00

CELL 1 - 3V
H200433-04 (Soil)

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

Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B
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Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M
DRO >C10-C28	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M

Surrogate: 1-Chlorooctane	87.5 %	55.5-154		2021708	MS	18-Feb-12	8015M
Surrogate: 1-Chlorooctadecane	100 %	57.6-158		2021708	MS	18-Feb-12	8015M

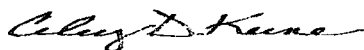
Volatile Organic Compounds by EPA Method 8021

Benzene	ND	0.050	mg/kg	50	2022101	AP	21-Feb-12	8021B
Toluene	ND	0.050	mg/kg	50	2022101	AP	21-Feb-12	8021B
Ethylbenzene	ND	0.050	mg/kg	50	2022101	AP	21-Feb-12	8021B
Total Xylenes	ND	0.150	mg/kg	50	2022101	AP	21-Feb-12	8021B
Surrogate: 4-Bromofluorobenzene (PID)	109 %	64.4-134		2022101	AP	21-Feb-12	8021B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
09-Mar-12 17:00

CELL 1 - 4V H200433-05 (Soil)

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

Inorganic Compounds

Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B	
----------	----	------	-------	---	---------	----	-----------	-----------	--

Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctane		97.5 %	55.5-154		2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		115 %	57.6-158		2021708	MS	18-Feb-12	8015M	

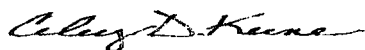
Volatile Organic Compounds by EPA Method 8021

Benzene	ND	0.050	mg/kg	50	2022101	AP	21-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2022101	AP	21-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2022101	AP	21-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2022101	AP	21-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		109 %	64.4-134		2022101	AP	21-Feb-12	8021B	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
09-Mar-12 17:00

CELL 1 - 5M
H200433-06 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Total Metals

Arsenic	ND	10.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B	GAL	
Barium	31.6	1.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B	GAL	
Cadmium	ND	5.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B	GAL	
Chromium	ND	5.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B	GAL	
Copper	4.05	3.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010	GAL	
Iron	3260	5.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010	GAL	
Lead	ND	10.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B	GAL	
Manganese	36.0	0.5 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010	GAL	
Mercury	ND	0.099 mg/kg dry wt.	495	2030911	CK	01-Mar-12	7471A	GAL	
Selenium	ND	20.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B	GAL	
Silver	ND	5.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B	GAL, BS2	
Zinc	14.3	5.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010	GAL	

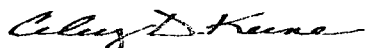
Inorganic Compounds

% Solids	96.3	%	1	2022412	CK	22-Feb-12	D2216	GAL	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
09-Mar-12 17:00

CELL 2 - 1T H200433-07 (Soil)

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

Inorganic Compounds

Chloride	2000	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B
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Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M
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DRO >C10-C28	505	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M
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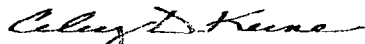
Surrogate: 1-Chlorooctane	94.3 %	55.5-154		2021708	MS	18-Feb-12	8015M
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Surrogate: 1-Chlorooctadecane	94.4 %	57.6-158		2021708	MS	18-Feb-12	8015M
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 09-Mar-12 17:00

CELL 2 - 1V
H200433-08 (Soil)

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

Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B	
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Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctane		94.4 %	55.5-154		2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		108 %	57.6-158		2021708	MS	18-Feb-12	8015M	

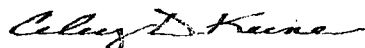
Volatile Organic Compounds by EPA Method 8021

Benzene	ND	0.050	mg/kg	50	2022101	AP	22-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2022101	AP	22-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2022101	AP	22-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2022101	AP	22-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		112 %	64.4-134		2022101	AP	22-Feb-12	8021B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 09-Mar-12 17:00

CELL 2 - 2V
H200433-09 (Soil)

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

Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B
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Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M
DRO >C10-C28	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M
Surrogate: 1-Chlorooctane	92.6 %	55.5-154		2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane	105 %	57.6-158		2021708	MS	18-Feb-12	8015M	

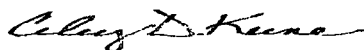
Volatile Organic Compounds by EPA Method 8021

Benzene	ND	0.050	mg/kg	50	2022101	AP	21-Feb-12	8021B
Toluene	ND	0.050	mg/kg	50	2022101	AP	21-Feb-12	8021B
Ethylbenzene	ND	0.050	mg/kg	50	2022101	AP	21-Feb-12	8021B
Total Xylenes	ND	0.150	mg/kg	50	2022101	AP	21-Feb-12	8021B
Surrogate: 4-Bromofluorobenzene (PID)	107 %	64.4-134		2022101	AP	21-Feb-12	8021B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
09-Mar-12 17:00

CELL 2 - 3V H200433-10 (Soil)

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

Inorganic Compounds

Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B	
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Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctane		93.5 %	55.5-154		2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		107 %	57.6-158		2021708	MS	18-Feb-12	8015M	

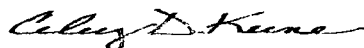
Volatile Organic Compounds by EPA Method 8021

Benzene	ND	0.050	mg/kg	50	2022101	AP	22-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2022101	AP	22-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2022101	AP	22-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2022101	AP	22-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		109 %	64.4-134		2022101	AP	22-Feb-12	8021B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 09-Mar-12 17:00

CELL 2 - 4V
H200433-11 (Soil)

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

Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B	
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Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctane		96.7 %		55.5-154	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		112 %		57.6-158	2021708	MS	18-Feb-12	8015M	

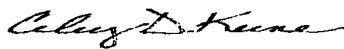
Volatile Organic Compounds by EPA Method 8021

Benzene	ND	0.050	mg/kg	50	2022101	AP	21-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2022101	AP	21-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2022101	AP	21-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2022101	AP	21-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		112 %		64.4-134	2022101	AP	21-Feb-12	8021B	

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Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
09-Mar-12 17:00

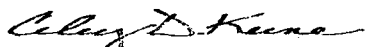
CELL 2 - 5H
H200433-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories									
Total Metals									
Arsenic	ND	10.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL
Barium	47.7	1.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL
Cadmium	ND	5.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL
Chromium	ND	5.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL
Copper	3.83	3.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010		GAL
Iron	2990	5.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010		GAL
Lead	ND	10.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL
Manganese	31.7	0.5 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010		GAL
Mercury	ND	0.095 mg/kg dry wt.	476	2030911	CK	01-Mar-12	7471A		GAL
Selenium	ND	20.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL
Silver	ND	5.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL, BS2
Zinc	16.6	5.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010		GAL
Inorganic Compounds									
% Solids	94.0		%	1	2022412	CK	22-Feb-12	D2216	GAL

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949Reported:
09-Mar-12 17:00**CELL 3 - 1T**
H200433-13 (Soil)

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

Chloride	1040	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B	
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Organic Compounds

GRO C6-C10	ND	50.0	mg/kg	5	2021708	MS	18-Feb-12	8015M	
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DRO >C10-C28	3120	50.0	mg/kg	5	2021708	MS	18-Feb-12	8015M	
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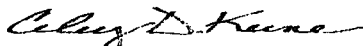
Surrogate: 1-Chlorooctane		86.5 %	55.5-154	2021708	MS	18-Feb-12	8015M		
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Surrogate: 1-Chlorooctadecane		88.1 %	57.6-158	2021708	MS	18-Feb-12	8015M		
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Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
09-Mar-12 17:00

CELL 3 - 1V
H200433-14 (Soil)

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

Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B	
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Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctane		82.0 %	55.5-154		2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		95.2 %	57.6-158		2021708	MS	18-Feb-12	8015M	

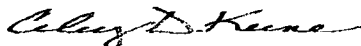
Volatile Organic Compounds by EPA Method 8021

Benzene	ND	0.050	mg/kg	50	2022101	AP	22-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2022101	AP	22-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2022101	AP	22-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2022101	AP	22-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		108 %	64.4-134		2022101	AP	22-Feb-12	8021B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
09-Mar-12 17:00

CELL 3 - 2V H200433-15 (Soil)

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

Inorganic Compounds

Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B	
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Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctane		94.6 %	55.5-154		2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		109 %	57.6-158		2021708	MS	18-Feb-12	8015M	

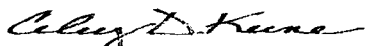
Volatile Organic Compounds by EPA Method 8021

Benzene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2022109	AP	22-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		108 %	64.4-134		2022109	AP	22-Feb-12	8021B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 09-Mar-12 17:00

CELL 3 - 3V
H200433-16 (Soil)

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

Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B	
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Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctane		99.7 %	55.5-154		2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		116 %	57.6-158		2021708	MS	18-Feb-12	8015M	

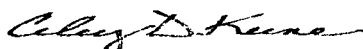
Volatile Organic Compounds by EPA Method 8021

Benzene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2022109	AP	22-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		109 %	64.4-134		2022109	AP	22-Feb-12	8021B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
09-Mar-12 17:00

CELL 3 - 4V H200433-17 (Soil)

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

Inorganic Compounds

Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B	
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Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	

Surrogate: 1-Chlorooctane 92.8 % 55.5-154 2021708 MS 18-Feb-12 8015M

Surrogate: 1-Chlorooctadecane 106 % 57.6-158 2021708 MS 18-Feb-12 8015M

Volatile Organic Compounds by EPA Method 8021

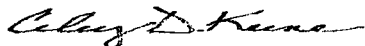
Benzene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2022109	AP	22-Feb-12	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 111 % 64.4-134 2022109 AP 22-Feb-12 8021B

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
09-Mar-12 17:00

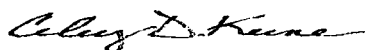
CELL 3 - 5H H200433-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories									
Total Metals									
Arsenic	ND	10.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL
Barium	32.1	1.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL
Cadmium	ND	5.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL
Chromium	ND	5.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL
Copper	3.24	3.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010		GAL
Iron	3020	5.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010		GAL
Lead	ND	10.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL
Manganese	34.2	0.5 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010		GAL
Mercury	ND	0.095 mg/kg dry wt.	476	2030911	CK	01-Mar-12	7471A		GAL
Selenium	ND	20.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL
Silver	ND	5.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL, BS2
Zinc	13.8	5.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010		GAL
Inorganic Compounds									
% Solids	96.2		%	1	2022412	CK	22-Feb-12	D2216	GAL

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 09-Mar-12 17:00

CELL 4 - 1T
H200433-19 (Soil)

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

Chloride	176	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B
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Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M
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DRO >C10-C28	120	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M
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Surrogate: 1-Chlorooctane	87.2 %	55.5-154		2021708	MS	18-Feb-12	8015M
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Surrogate: 1-Chlorooctadecane	89.8 %	57.6-158		2021708	MS	18-Feb-12	8015M
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
09-Mar-12 17:00

CELL 4 - 1V
H200433-20 (Soil)

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

Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B	
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Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctane		90.8 %	55.5-154		2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		102 %	57.6-158		2021708	MS	18-Feb-12	8015M	

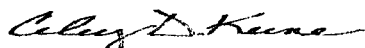
Volatile Organic Compounds by EPA Method 8021

Benzene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2022109	AP	22-Feb-12	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		110 %	64.4-134		2022109	AP	22-Feb-12	8021B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
09-Mar-12 17:00

CELL 4 - 2V
H200433-21 (Soil)

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

Inorganic Compounds

Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B
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Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M
DRO >C10-C28	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M

Surrogate: 1-Chlorooctane	91.5 %	55.5-154		2021708	MS	18-Feb-12	8015M
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Surrogate: 1-Chlorooctadecane	104 %	57.6-158		2021708	MS	18-Feb-12	8015M
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Volatile Organic Compounds by EPA Method 8021

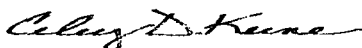
Benzene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B
Toluene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B
Ethylbenzene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B
Total Xylenes	ND	0.150	mg/kg	50	2022109	AP	22-Feb-12	8021B

Surrogate: 4-Bromofluorobenzene (PID)	110 %	64.4-134		2022109	AP	22-Feb-12	8021B
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
09-Mar-12 17:00

CELL 4 - 3V H200433-22 (Soil)

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

Inorganic Compounds

Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B	
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Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
DRO >C10-C28	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	

Surrogate: 1-Chlorooctane	86.7 %	55.5-154	2021708	MS	18-Feb-12	8015M			
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Surrogate: 1-Chlorooctadecane	104 %	57.6-158	2021708	MS	18-Feb-12	8015M			
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Volatile Organic Compounds by EPA Method 8021

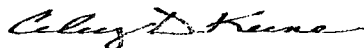
Benzene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B	
Ethylbenzene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B	
Total Xylenes	ND	0.150	mg/kg	50	2022109	AP	22-Feb-12	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	118 %	64.4-134	2022109	AP	22-Feb-12	8021B			
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 09-Mar-12 17:00

CELL 4 - 4V
H200433-23 (Soil)

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

Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B
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Organic Compounds

GRO C6-C10	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M
DRO >C10-C28	ND	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M
Surrogate: 1-Chlorooctane	92.9 %	55.5-154		2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane	105 %	57.6-158		2021708	MS	18-Feb-12	8015M	


Volatile Organic Compounds by EPA Method 8021

Benzene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B
Toluene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B
Ethylbenzene	ND	0.050	mg/kg	50	2022109	AP	22-Feb-12	8021B
Total Xylenes	ND	0.150	mg/kg	50	2022109	AP	22-Feb-12	8021B
Surrogate: 4-Bromofluorobenzene (PID)	111 %	64.4-134		2022109	AP	22-Feb-12	8021B	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
09-Mar-12 17:00


CELL 4 - 5H
H200433-24 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories									
Total Metals									
Arsenic	ND	10.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL
Barium	52.1	1.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL
Cadmium	ND	5.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL
Chromium	ND	5.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL
Copper	3.77	3.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010		GAL
Iron	4210	5.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010		GAL
Lead	ND	10.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL
Manganese	47.8	0.5 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010		GAL
Mercury	ND	0.098 mg/kg dry wt.	490	2030911	CK	01-Mar-12	7471A		GAL
Selenium	ND	20.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL
Silver	ND	5.00 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010B		GAL, BS2
Zinc	18.7	5.0 mg/kg dry wt.	100	2030910	CK	07-Mar-12	6010		GAL
Inorganic Compounds									
% Solids	93.1		%	4	2022412	CK	22-Feb-12	D2216	GAL

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949Reported:
09-Mar-12 17:00**JD - MW #1**
H200433-25 (Water)

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

Chloride	68.0	4.00	mg/L	1	2021717	HM	20-Feb-12	4500-Cl-B	
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Organic Compounds

GRO C6-C10	ND	1.00	mg/L	0.1	2022106	MS	22-Feb-12	8015M	
DRO >C10-C28	ND	1.00	mg/L	0.1	2022106	MS	22-Feb-12	8015M	

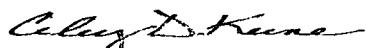
Surrogate: 1-Chlorooctane	77.5 %	49.8-167	2022106	MS	22-Feb-12	8015M
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Surrogate: 1-Chlorooctadecane	78.5 %	56.6-166	2022106	MS	22-Feb-12	8015M
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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
09-Mar-12 17:00

Total Metals - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2030910 - EPA 3050
Blank (2030910-BLK1)

Prepared & Analyzed: 07-Mar-12

Lead	ND	10.0	mg/kg dry wt.							
Zinc	ND	0.05	mg/kg dry wt.							
Chromium	ND	5.00	mg/kg dry wt.							
Iron	ND	0.05	mg/kg dry wt.							
Arsenic	ND	10.0	mg/kg dry wt.							
Manganese	ND	0.005	mg/kg dry wt.							
Cadmium	ND	5.00	mg/kg dry wt.							
Selenium	ND	20.0	mg/kg dry wt.							
Copper	0.03	0.03	mg/kg dry wt.							
Barium	ND	1.00	mg/kg dry wt.							
Silver	ND	5.00	mg/kg dry wt.							

LCS (2030910-BS1)

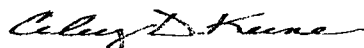
Prepared & Analyzed: 07-Mar-12

Manganese	1.9		mg/kg	2.00		97.0	85-115			
Iron	3.9		mg/kg	4.00		98.2	85-115			
Zinc	1.9		mg/kg	2.00		93.0	85-115			
Copper	4.05		mg/kg	4.00		101	85-115			
Arsenic	3.80		mg/kg	4.00		95.0	85-115			
Barium	1.90		mg/kg	2.00		95.0	85-115			
Cadmium	1.98		mg/kg	2.00		99.0	85-115			
Chromium	1.99		mg/kg	2.00		99.5	85-115			
Silver	0.079		mg/kg	0.100		79.0	85-115			BS2
Lead	1.99		mg/kg	2.00		99.5	85-115			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
09-Mar-12 17:00

Total Metals - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2030910 - EPA 3050

LCS (2030910-BS1)

Prepared & Analyzed: 07-Mar-12

Selenium	7.68		mg/kg	8.00		96.0	85-115			
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LCS Dup (2030910-BSD1)

Prepared & Analyzed: 07-Mar-12

Manganese	2.0		mg/kg	2.00		98.5	85-115	1.53	20	
Cadmium	2.00		mg/kg	2.00		100	85-115	1.01	20	
Barium	1.92		mg/kg	2.00		96.0	85-115	1.05	20	
Silver	0.098		mg/kg	0.100		98.0	85-115	21.5	20	
Arsenic	3.82		mg/kg	4.00		95.5	85-115	0.525	20	
Selenium	7.80		mg/kg	8.00		97.5	85-115	1.55	20	
Lead	2.03		mg/kg	2.00		102	85-115	1.99	20	
Zinc	2.0		mg/kg	2.00		98.0	85-115	5.24	20	
Copper	4.10		mg/kg	4.00		102	85-115	1.23	20	
Chromium	2.01		mg/kg	2.00		100	85-115	1.00	20	
Iron	4.0		mg/kg	4.00		99.0	85-115	0.760	20	

Batch 2030911 - EPA 7471

Blank (2030911-BLK1)

Prepared & Analyzed: 01-Mar-12

Mercury	ND	0.100	mg/kg dry wt.							
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LCS (2030911-BS1)

Prepared & Analyzed: 01-Mar-12

Mercury	1.05		mg/kg	1.00		105	85-115			
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LCS Dup (2030911-BSD1)

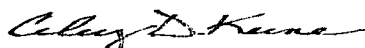
Prepared & Analyzed: 01-Mar-12

Mercury	1.05		mg/kg	1.00		105	85-115	0.00	20	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
09-Mar-12 17:00

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 2021717 - General Prep - Wet Chem

Blank (2021717-BLK1)

Prepared & Analyzed: 17-Feb-12

Chloride ND 4.00 mg/L

LCS (2021717-BS1)

Prepared & Analyzed: 17-Feb-12

Chloride 104 4.00 mg/L 100 104 80-120

LCS Dup (2021717-BSD1)

Prepared & Analyzed: 17-Feb-12

Chloride 104 4.00 mg/L 100 104 80-120 0.00 20

Batch 2022102 - General Prep - Wet Chem

Blank (2022102-BLK1)

Prepared & Analyzed: 21-Feb-12

Chloride ND 16.0 mg/kg

LCS (2022102-BS1)

Prepared & Analyzed: 21-Feb-12

Chloride 416 16.0 mg/kg 400 104 80-120

LCS Dup (2022102-BSD1)

Prepared & Analyzed: 21-Feb-12

Chloride 416 16.0 mg/kg 400 104 80-120 0.00 20

Batch 2022103 - General Prep - Wet Chem

Blank (2022103-BLK1)

Prepared & Analyzed: 21-Feb-12

Chloride ND 16.0 mg/kg

LCS (2022103-BS1)

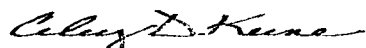
Prepared & Analyzed: 21-Feb-12

Chloride 416 16.0 mg/kg 400 104 80-120

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949Reported:
09-Mar-12 17:00**Inorganic Compounds - Quality Control****Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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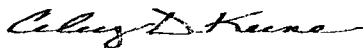
Batch 2022103 - General Prep - Wet Chem**LCS Dup (2022103-BSD1)****Prepared & Analyzed: 21-Feb-12**

Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
09-Mar-12 17:00

Organic Compounds - Quality Control

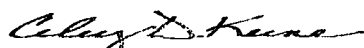
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2021708 - General Prep - Organics										
Blank (2021708-BLK1)										
Prepared: 17-Feb-12 Analyzed: 18-Feb-12										
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.5		mg/kg	50.0		93.1	55.5-154			
Surrogate: 1-Chlorooctadecane	54.2		mg/kg	50.0		108	57.6-158			
LCS (2021708-BS1)										
Prepared: 17-Feb-12 Analyzed: 18-Feb-12										
GRO C6-C10	179	10.0	mg/kg	200		89.6	63.5-131			
DRO >C10-C28	164	10.0	mg/kg	200		82.0	52.3-130			
Total TPH C6-C28	343	10.0	mg/kg	400		85.8	62-129			
Surrogate: 1-Chlorooctane	45.9		mg/kg	50.0		91.7	55.5-154			
Surrogate: 1-Chlorooctadecane	53.2		mg/kg	50.0		106	57.6-158			
LCS Dup (2021708-BSD1)										
Prepared: 17-Feb-12 Analyzed: 18-Feb-12										
GRO C6-C10	178	10.0	mg/kg	200		89.2	63.5-131	0.496	13.9	
DRO >C10-C28	161	10.0	mg/kg	200		80.3	52.3-130	2.17	18.1	
Total TPH C6-C28	339	10.0	mg/kg	400		84.7	62-129	1.29	16.2	
Surrogate: 1-Chlorooctane	45.2		mg/kg	50.0		90.4	55.5-154			
Surrogate: 1-Chlorooctadecane	49.4		mg/kg	50.0		98.9	57.6-158			
Batch 2022106 - General Prep - Organics										
Blank (2022106-BLK1)										
Prepared: 21-Feb-12 Analyzed: 22-Feb-12										
GRO C6-C10	ND	1.00	mg/L							
DRO >C10-C28	ND	1.00	mg/L							
EXT DRO >C28-C35	ND	1.00	mg/L							
Surrogate: 1-Chlorooctane	4.00		mg/L	5.00		80.0	49.8-167			
Surrogate: 1-Chlorooctadecane	3.69		mg/L	5.00		73.7	56.6-166			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 09-Mar-12 17:00

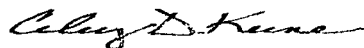
Organic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 2022106 - General Prep - Organics									
LCS (2022106-BS1)					Prepared: 21-Feb-12 Analyzed: 22-Feb-12				
GRO C6-C10	43.7	1.00	mg/L	50.0		87.4	70.4-120		
DRO >C10-C28	42.1	1.00	mg/L	50.0		84.2	61.8-130		
EXT DRO >C28-C35	ND	1.00	mg/L	0.00			0-0		
Surrogate: 1-Chlorooctane	5.24		mg/L	5.00		105	49.8-167		
Surrogate: 1-Chlorooctadecane	5.24		mg/L	5.00		105	56.6-166		
LCS Dup (2022106-BSD1)					Prepared: 21-Feb-12 Analyzed: 22-Feb-12				
GRO C6-C10	36.4	1.00	mg/L	50.0		72.9	70.4-120	18.2	7.96
DRO >C10-C28	34.0	1.00	mg/L	50.0		68.0	61.8-130	21.3	12.1
EXT DRO >C28-C35	ND	1.00	mg/L	0.00			0-0		0
Surrogate: 1-Chlorooctane	4.30		mg/L	5.00		85.9	49.8-167		
Surrogate: 1-Chlorooctadecane	4.02		mg/L	5.00		80.5	56.6-166		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

Eddie Seay Consulting
601 W. Illinois
Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)
Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Reported:
09-Mar-12 17:00

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2022101 - Volatiles

Blank (2022101-BLK1)

Prepared & Analyzed: 21-Feb-12

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							

Surrogate: 4-Bromofluorobenzene (PID) 0.0556 mg/kg 0.0500 111 64.4-134

LCS (2022101-BS1)

Prepared & Analyzed: 21-Feb-12

Benzene	1.90	0.050	mg/kg	2.00		95.1	65.2-126			
Toluene	2.11	0.050	mg/kg	2.00		105	73.2-126			
Ethylbenzene	2.17	0.050	mg/kg	2.00		108	74.4-131			
Total Xylenes	6.97	0.150	mg/kg	6.00		116	73.5-130			

Surrogate: 4-Bromofluorobenzene (PID) 0.0585 mg/kg 0.0500 117 64.4-134

LCS Dup (2022101-BSD1)

Prepared & Analyzed: 21-Feb-12

Benzene	1.89	0.050	mg/kg	2.00		94.5	65.2-126	0.609	26.9	
Toluene	2.08	0.050	mg/kg	2.00		104	73.2-126	1.06	27.9	
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	74.4-131	2.01	28.5	
Total Xylenes	6.74	0.150	mg/kg	6.00		112	73.5-130	3.34	27.7	

Surrogate: 4-Bromofluorobenzene (PID) 0.0581 mg/kg 0.0500 116 64.4-134

Batch 2022109 - Volatiles

Blank (2022109-BLK1)

Prepared: 21-Feb-12 Analyzed: 22-Feb-12

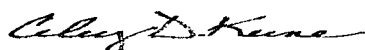
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							

Surrogate: 4-Bromofluorobenzene (PID) 0.0552 mg/kg 0.0500 110 64.4-134

Cardinal Laboratories

* = Accredited Analyte

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Coley D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Eddie Seay Consulting
 601 W. Illinois
 Hobbs NM, 88242

 Project: JAY DAN LF (NM.01.0045)
 Project Number: JAY DAN LF
 Project Manager: Eddie Seay
 Fax To: (505) 392-6949

 Reported:
 09-Mar-12 17:00

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 2022109 - Volatiles
LCS (2022109-BS1)

Prepared: 21-Feb-12 Analyzed: 22-Feb-12

Benzene	1.76	0.050	mg/kg	2.00		87.9	65.2-126		
Toluene	1.91	0.050	mg/kg	2.00		95.6	73.2-126		
Ethylbenzene	1.97	0.050	mg/kg	2.00		98.6	74.4-131		
Total Xylenes	6.17	0.150	mg/kg	6.00		103	73.5-130		
Surrogate: 4-Bromofluorobenzene (PID)	0.0558		mg/kg	0.0500		112	64.4-134		

LCS Dup (2022109-BSD1)

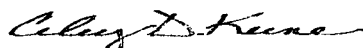
Prepared: 21-Feb-12 Analyzed: 22-Feb-12

Benzene	1.85	0.050	mg/kg	2.00		92.6	65.2-126	5.15	26.9
Toluene	2.01	0.050	mg/kg	2.00		100	73.2-126	4.87	27.9
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	74.4-131	3.43	28.5
Total Xylenes	6.38	0.150	mg/kg	6.00		106	73.5-130	3.45	27.7
Surrogate: 4-Bromofluorobenzene (PID)	0.0550		mg/kg	0.0500		110	64.4-134		

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager


Notes and Definitions

GAL	Analysis subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.
BS2	Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Eddie Seay Consulting</u> Project Manager: <u>Eddie Seay</u> Address: <u>601 W Illinois</u> City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88242</u> Phone #: <u>2-2236</u> Fax #: <u>2-6949</u> Project #: <u>Jayden LF</u> Project Owner: <u>D. Watson</u> Project Name: <u>Jayden LF (NM-01-0045)</u> Project Location: <u>NW/SW Sect 32 T15 R35</u> Sampler Name: <u>Eddie Seay</u>				BILL TO: P.O. #: Company: Attn: <u>Same</u> Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST												
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	# CONTAINERS	MATRIX	PRESERV	SAMPLING														
			GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER	ACID/BASE ICE / COOL OTHER	DATE	TIME	BTEX	TPH (G/L)	Chloride	Trace Metals										
	H200433																			
	1	Cell 1- 1T	✓	✓	✓	2/15	2:30	✓	✓	✓										
	2	Cell 1- 1V	✓	✓	✓	2/16	7:20	✓	✓	✓										
	3	Cell 1- 2V	✓	✓	✓	2/16	7:50	✓	✓	✓										
	4	Cell 1- 3V	✓	✓	✓	2/16	8:30	✓	✓	✓										
	5	Cell 1- 4V	✓	✓	✓	2/16	9:10	✓	✓	✓										
	6	Cell 1- 5M	✓	✓	✓	2/16	9:20	✓	✓	✓	✓									
	7	Cell 2- 1T	✓	✓	✓	2/15	3:15	✓	✓	✓										
	8	Cell 2- 1V	✓	✓	✓	2/16	10:00	✓	✓	✓										
	9	Cell 2- 2V	✓	✓	✓	2/16	10:35	✓	✓	✓										

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Relinquished By: <u>Eddie W Seay</u>	Date: <u>2/17</u> Time: <u>9:45</u>	Received By: <u>Kodi Henson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No REMARKS:	Add'l Phone #: Add'l Fax #:	
Relinquished By:	Date: Time:	Received By:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other: <u>2</u>		Sample Condition: Cool - Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <u>[Signature]</u>		



2060

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Eddie Seay Consulting</u>				BILL TO				ANALYSIS REQUEST																	
Project Manager: <u>Eddie Seay</u>				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center; justify-content: center;"><div>BTEX</div><div>TPH (GOL)</div><div>Chloride</div><div>WACC Metals</div></div>																	
Address: <u>601 W Illinois</u>				Company:																					
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88242</u>				Attn: <u>[Signature]</u>																					
Phone #: <u>2-2236</u> Fax #: <u>2-6949</u>				Address:																					
Project #: <u>Jayden LF</u> Project Owner: <u>D. Watson</u>				City:																					
Project Name: <u>Jayden LF (NM-01-0045)</u>				State: Zip:																					
Project Location: <u>NW/SE 32 T15 R35</u>				Phone #:																					
Sampler Name: <u>Eddie Seay</u>				Fax #:																					
FOR LAB USE ONLY																									
Lab I.D.		Sample I.D.		CONTAINERS		MATRIX				PRESERV		SAMPLING													
				#		GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER				ACID/BASE ICE / COOL OTHER		DATE TIME													
<u>H200433</u>																									
<u>10</u>		<u>Cell 2-3V</u>		<u>✓</u>		<u>✓</u>				<u>✓</u>		<u>2/14 11:05</u>		<u>✓</u>											
<u>11</u>		<u>Cell 2-4V</u>		<u>✓</u>		<u>✓</u>				<u>✓</u>		<u>2/16 11:40</u>		<u>✓</u>											
<u>12</u>		<u>Cell 2-5H</u>		<u>✓</u>		<u>✓</u>				<u>✓</u>		<u>2/16 11:55</u>		<u>✓</u>											
<u>13</u>		<u>Cell 3-1T</u>		<u>✓</u>		<u>✓</u>				<u>✓</u>		<u>2/15 4:05</u>		<u>✓</u>											
<u>14</u>		<u>Cell 3-1V</u>		<u>✓</u>		<u>✓</u>				<u>✓</u>		<u>2/16 12:30</u>		<u>✓</u>											
<u>15</u>		<u>Cell 3-2V</u>		<u>✓</u>		<u>✓</u>				<u>✓</u>		<u>2/16 1:00</u>		<u>✓</u>											
<u>16</u>		<u>Cell 3-3V</u>		<u>✓</u>		<u>✓</u>				<u>✓</u>		<u>2/16 1:55</u>		<u>✓</u>											
<u>17</u>		<u>Cell 3-4V</u>		<u>✓</u>		<u>✓</u>				<u>✓</u>		<u>2/16 2:40</u>		<u>✓</u>											
<u>18</u>		<u>Cell 3-5H</u>		<u>✓</u>		<u>✓</u>				<u>✓</u>		<u>2/16 3:00</u>		<u>✓</u>											
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Relinquished By: <u>Eddie Seay</u>				Date: <u>2/17</u>		Received By: <u>[Signature]</u>				Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Phone #:											
				Time: <u>9:45</u>						Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No				Add'l Fax #:											
Relinquished By:				Date:		Received By:				REMARKS:															
				Time:																					
Delivered By: (Circle One)				Sample Condition				CHECKED BY:																	
Sampler - UPS - Bus - Other: <u>20</u>				<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact				<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No				<u>[Signature]</u>													



3080

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

Company Name: <u>Eddie Seay Consulting</u>				BILL TO				ANALYSIS REQUEST																	
Project Manager: <u>Eddie Seay</u>				P.O. #:																					
Address: <u>1001 W Illinois</u>				Company:																					
City: <u>Hobbs</u> State: <u>NM</u> Zip: <u>88242</u>				Attn: <u>Seay</u>																					
Phone #: <u>2-2236</u> Fax #: <u>2-6949</u>				Address:																					
Project #: <u>Jay Dan LF</u> Project Owner: <u>D. Watson</u>				City:																					
Project Name: <u>Jay Dan LF (NM-01-0045)</u>				State: Zip:																					
Project Location: <u>NW/5W S42T15 R35</u>				Phone #:																					
Sampler Name: <u>Eddie Seay</u>				Fax #:																					
FOR LAB USE ONLY				MATRIX		PRESERV		SAMPLING																	
Lab I.D.	Sample I.D.	(GRAB OR (COMB. # CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME												
<u>H200433</u>																									
<u>19</u>	<u>Cell 4-1T</u>	<u>✓</u>	<u>✓</u>		<u>✓</u>				<u>✓</u>			<u>2/15</u>	<u>4:35</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>									
<u>20</u>	<u>Cell 4-1V</u>	<u>✓</u>	<u>✓</u>		<u>✓</u>				<u>✓</u>			<u>2/16</u>	<u>4:25</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>									
<u>21</u>	<u>Cell 4-2V</u>	<u>✓</u>	<u>✓</u>		<u>✓</u>				<u>✓</u>			<u>2/16</u>	<u>4:45</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>									
<u>22</u>	<u>Cell 4-3V</u>	<u>✓</u>	<u>✓</u>		<u>✓</u>				<u>✓</u>			<u>2/16</u>	<u>5:15</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>									
<u>23</u>	<u>Cell 4-4V</u>	<u>✓</u>	<u>✓</u>		<u>✓</u>				<u>✓</u>			<u>2/16</u>	<u>5:40</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>									
<u>24</u>	<u>Cell 4-5H</u>	<u>✓</u>	<u>✓</u>		<u>✓</u>				<u>✓</u>			<u>2/16</u>	<u>6:00</u>	<u>✓</u>		<u>✓</u>									
<u>25</u>	<u>JD-MW #1</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>					<u>✓</u>			<u>2/15</u>	<u>5:00</u>	<u>✓</u>	<u>✓</u>										
<small>PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>																									
Relinquished By: <u>Eddie W Seay</u>		Date: <u>2/17</u>		Received By: <u>Adi Nenson</u>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #:																	
Time: <u>9:45</u>		Time: <u>9:45</u>		Time: <u>9:45</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Fax #:																	
Relinquished By:		Date:		Received By:		REMARKS:																			
Time:		Time:		Time:																					
Delivered By: (Circle One)				Sample Condition				CHECKED BY: (Initials)																	
Sampler - UPS - Bus - Other:				Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>				<u>AS</u>																	
				<input type="checkbox"/> Yes <input type="checkbox"/> No																					

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476