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

David Martin
Cabinet Secretary

Brett F. Woods, Ph.D. 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,

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 Mr. Watson Jay Dan Landfarm Permit NM1-034 May 19, 2015 Page 2 of 4

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 C_6 to C_{36} . 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 biannual 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.

Mr. Watson Jay Dan Landfarm Permit NM1-034 May 19, 2015 Page 3 of 4

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

Mr. Watson Jay Dan Landfarm Permit NM1-034 May 19, 2015 Page 3 of 4

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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

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.

Mark J. Larson, P.G.

Sr. Project Manager/President

mark@laenvironmental.com

cc: Danny Watson

SIND MULTIN

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,

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

(ofto

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

Method EPA 552.2

Total Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

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

Method SM 9223-B

Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2

Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2

Total Haloacetic Acids (HAA-5)

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

Celeg D. Keene

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



JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF
Project Manager: GREG WATSON

31-Aug-14 11:56

Fax To:

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

REFACE NOTE: Jability and Demogres. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount celd by client for analyses. All claims, including those for negligence arising other cause whitsoever shall be deemed welved unless media in writing and received by Cardinal within thirty (30) days after competition of the applicable service. In no event shall be for incidental or consequential demogra-including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, difflictes or successors arising out of or related to the performance of the services nersunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services nersunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services nersunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services nersunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services nersunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services nersunder by Cardinal, regardless of whether successors arising out of or related to the performance of the services nersunder by Cardinal Laboratories.

Celley & Keena



JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF

Project Manager: GREG WATSON

Fax To:

CELL 1 - A H402388-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborato	ories					
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	
Phenois	ND		0.6 1	ng/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	
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 %	35-1	40	4083104	CK	09-Aug-14	8082	
Volatile Organic Compounds by	EPA Method 82601	3						<u> </u>		
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 Damagus. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount cold by client for analyses. All claims, including those for negligence or any other causes whatsoever shall be deemed watword unless made in withing and received by Cardinal within thirty (30) days after competion of the applicable service. In no event shall Cardinal be liable for inclaims or consequential damage including, without limitation, business interruptions, loss of use, or loss of small shall be contracted by Cardinal, regardless of whether suc claims is based upon any of the above stated researces or otherwise. Results related above, the same including those proposed except in full with written approval of Cardinal Laboratories.

Celey & Keena



JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632

Project Number: JAY DAN LF

31-Aug-14 11:56

LOVINGTON NM, 88260

Project Manager: GREG WATSON

Fax To:

CELL 1 - A H402388-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by E	PA Method 826	0B								
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-Dichloroeth ane*	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-Methyln aphth alene	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

*=Accredited Analyte

PLEASE NOTE: Liability and Demages. Cardina's lebility and client's exclusive remady for any claim arising, whether based in contract or tort, shall be limited to the amount caid by client for analyses. All claims, including those for negligence arising other cause whatsoever shall be deemed waked unlives made in writing and received by Cardinal within thirty. (30) days after completion of the applicable service. In no event shall cardinal be lable for inclaintal or consequential damage including, without limitation, business interruptions, loss of use, or loss of use, or loss of use, or loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services nereunder by Cardinal, regardless of whether successive is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celey D. Kuna



JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632

Project Number: JAY DAN LF

31-Aug-14 11:56

LOVINGTON NM, 88260

Project Manager: GREG WATSON

Fax To:

CELL 1 - A H402388-01 (Soil)

Analyte	Result	MDL Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	tories					
Semivolatile Organic Compound	ls 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]flouranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]flouranthene	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-0
Surrogate: Terphenyl-dl4		122 %	21.3-	-96.1	4080102	CK	19-Aug-14	8270C	S-0
		Green Anal	lytical Lab	oratories					
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	Н
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	·								

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Barium

Iron

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EPA6010 B

EPA6010 B

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1.00 mg/kg dry

5.00 mg/kg dry

100

100

B408112

B408112

JGS

JGS

20-Aug-14

20-Aug-14

Celey & Kuna

Celey D. Keene, Lab Director/Quality Manager

84.8

8270



JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632

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

LOVINGTON NM, 88260

Fax To:

CELL 1 - A H402388-01 (Soil)

Analyte	Result	MDL Reporting	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Labo	oratories					
Total Metals by ICP									
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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JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported:

LOVINGTON NM, 88260

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

Fax To:

CELL 1 - B H402388-02 (Soil)

Analyte	Result	MDL Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	al Laborato	ories					
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	
Phenois	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	
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 %	35-1-	40	4083104	CK	09-Aug-14	8082	
Volatile Organic Compounds by EF	'A 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	82 60	

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JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

PO BOX 632 LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON

Fax To:

CELL 1 - B H402388-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	Laborat	ories					
Volatile Organic Compounds by E	PA Method 8260)B								
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-Dichloroeth ane*	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-Methyln aphth alene	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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JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF
Project Manager: GREG WATSON

Cov. To.

Fax To:

CELL 1 - B H402388-02 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	ories					
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]flouranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]flouranthene	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	827 0 C	S-04
Surrogate: 2-Fluorobiphenyl		119 %	27.2-	92.9	4080102	CK	19-Aug-14	827 0 C	S-04
Surrogate: Terphenyl-dl4		146 %	21.3-	96.1	4080102	CK	19-Aug-14	8270C	S-04
		Green Ana	lytical Lab	oratories					
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	H
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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JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF

Project Manager: GREG WATSON

Fax To:

CELL 1 - B H402388-02 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Lab	oratories					
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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JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF

Project Manager: GREG WATSON

Fax To:

CELL 1 - C H402388-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborato	ries					
Inorganic Compounds										
Chloride	ND		16.0	mg/kg	4	4080710	AP	11-Aug-14	4500-C1-B	
pH*	7.95		0.100	pH Units	1	4081203	AP	12-Aug-14	9045	
Phenols	ND		0.5	ng/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	
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 %	35-14	40	4083104	CK	09-Aug-14	8082	
Volatile Organic Compounds by El	PA Method 8260	В								
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	40807 01	MS	07-Aug-14	8260	

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Celey D. Keena

Reported:

31-Aug-14 11:56



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:

CELL 1 - C H402388-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Not
			Cardina	Laborat	ories					
Volatile Organic Compounds by F	PA Method 8260)B								
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-Dichloroeth ane*	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	40807 01	MS	07-Aug-14	8260	
1,2-Dibromoethane*	ND		0.0500	mg/kg	50	40807 01	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 %	7 0 -	130	4080701	MS	07-Aug-14	8260	
Surrogate: Toluene-d8			111 %	7 0 -	130	4080701	MS	07-Aug-14	8260	
Surrogate: 4-Bromofluorobenzene			96.5 %	7 0 -	130	4080701	MS	07-Aug-14	8260	
Semivolatile Organic Compounds	by GCMS									
Naphthalene	ND		0.040	mg/kg	40	4080102	СК	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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JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF
Project Manager: GREG WATSON

Fax To:

CELL 1 - C H402388-03 (Soil)

Analyte	Result	Report MDL Li	ing mit Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Car	dinal Labo	ratories					
Semivolatile Organic Compounds	by GCMS								
Fluoranthene	ND	0.0	140 mg/kg	40	4080102	CK	19-Aug-14	8270C	
Pyrene	ND	0.0	140 mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]anthracene	ND	0.0	140 mg/kg	40	4080102	CK	19-Aug-14	8270C	
Chrysene	ND	0.0	140 mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[b]flouranthene	ND	0.0	140 mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]flouranthene	ND	0.0	40 mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]pyrene	ND	0.0	140 mg/kg	40	4080102	CK	19-Aug-14	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.0	140 mg/kg	40	4080102	CK	19-Aug-14	8270C	
Dibenz[a,h]anthracene	ND	0.0	140 mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[g,h,i]perylene	ND	0.0	140 mg/kg	40	4080102	CK	19-Aug-14	8270C	
Surrogate: Nitrobenzene-d5		51.5	% 10	5.1-91.8	4080102	CK	19-Aug-14	8270C	
Surrogate: 2-Fluorobiphenyl		60.8	% 2:	7.2-92.9	4080102	CK	19-Aug-14	8270C	
Surrogate: Terphenyl-dl4		72.6	% 2	1.3-96.1	4080102	CK	19-Aug-14	8270C	
		Green A	nalytical L	aboratories					
General Chemistry									
Cyanide, Total	ND	1	.00 mg/kg d	ry 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	0.8	00 mg/kg d	ry 4	B408235	ABP	26-Aug-14	4500-F- C	
Nitrate/Nitrite as N	28.1	1	.00 mg/kg d	ry 50	B408161	KLJ	19-Aug-14	EPA353.2	
Nitrite as N	0.286	0.2	200 mg/kgd	ry 10	B408065	KLJ	08-Aug-14	EPA353.2	
Total Metals by ICP									
Barium	95.5	1	.00 mg/kg d	ry 100	B408112	JGS	20-Aug-14	EPA6010 B	
Iron	8150	5	.00 mg/kgd	ry 100	B408112	JGS	20-Aug-14	EPA6010 B	
Zinc	29.8	5	.00 mg/kgd	ry 100	B408112	JGS	20-Aug-14	EPA6010 B	

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JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

LOVINGTON NM, 88260

Project Number: JAY DAN LF

Project Manager: GREG WATSON

Fax To:

CELL 1 - C H402388-03 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Lab	oratories					
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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JAY DAN LANDFARM PO BOX 632 LOVINGTON NM, 88260 Project: JAY DAN LF (NM1-0045)

Project Number: JAY DAN LF

Reported: 31-Aug-14 11:56

Project Manager: GREG WATSON

Fax To:

CELL 1 - D H402388-04 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	al Laborato	ories					
Inorganic Compounds					<u></u>				
Chloride	ND	16.0	mg/kg	4	4080710	AP	11-Aug-14	4500-Cl-B	
pH*	7.78	0.100	pH Units	1	4081203	AΡ	12-Aug-14	9045	
Phenois	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	
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 %	35-1	40	4083104	CK	09-Aug-14	8082	
Volatile Organic Compounds by E	PA Method 8260I	3							
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



JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

PO BOX 632 LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON

Fax To:

CELL 1 - D H402388-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardína	l Laborat	ories					
Volatile Organic Compounds by I	EPA Method 8260)B								
Carbon tetrachloride*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	826 0	
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	826 0	
1,2-Dichloroeth ane*	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 %	7 0 -	130	4080701	MS	07-Aug-14	8260	
Surrogate: 4-Bromofluorobenzene			92.8 %	7 0	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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JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF

Project Manager: GREG WATSON

Fax To:

CELL 1 - D H402388-04 (Soil)

Analyte	Result	MDL Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	ories					
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]flouranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]flouranthene	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	C K	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-dl4		173%	21.3-	96.1	4080102	CK	19-Aug-14	8270C	S-04
		Green Anal	ytical Lab	oratories					
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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Celley D. Keine



JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

PO BOX 632 LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON

Fax To:

CELL 1 - D H402388-04 (Soil)

Analyte	Result	Reporti MDL Lir		Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green A	alytical Lab	oratories					
Total Metals by ICPMS									
Arsenic	2.55	0.5	00) mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Cadmium	0.406	0.1)() 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	0.1	00 mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Lead	7.36	0.5	00 mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Manganese	139	0.5	00 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	0.1)() mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Uranium	0.302	0.1	00 mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Total Mercury by CVAA									
Mercury	ND	0.09	95 mg/kg dry	480	B408163	JGS	20-Aug-14	EPA7471	

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JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

PO BOX 632

Project Number: JAY DAN LF Project Manager: GREG WATSON

LOVINGTON NM, 88260

Fax To:

CELL 2 - A H402388-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborato	ories					
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	
Phenois	ND		0.5	ng/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	
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	C K	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 %	35-1-	40	4083104	CK	09-Aug-14	8082	-
Volatile Organic Compounds by E	PA Method 8260	В						<u> </u>		
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-Dichloroeth ane*	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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JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF
Project Manager: GREG WATSON

Fax To:

CELL 2 - A H402388-05 (Soil)

Analyte	Result	MDL Lin	ng nit Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Card	inal Labora	tories					
Volatile Organic Compounds by E	PA Method 826)B							
Carbon tetrachloride*	ND	0.05)() mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,1-Trichloroethane*	ND	0.05	00 mg/kg	50	4080701	MS	07-Aug-14	8260	
Benzene*	ND	0.05	00 mg/kg	50	4080701	MS	07-Aug-14	826 0	
1,2-Dichloroethane*	ND	0.05	00 mg/kg	50	4080701	MS	07-Aug-14	8260	
Trichloroethene*	ND	0.05	00 mg/kg	50	4080701	MS	07-Aug-14	8260	
Toluene*	ND	0.05	00 mg/kg	50	4080701	MS	07-Aug-14	8260	
Tetrachloroethene*	ND	0.05	00 mg/kg	50	4080701	MS	07-Aug-14	826 0	
1,1,2-Trichloroethane*	ND	0.05)() mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dibromoethane*	ND	0.05)() mg/kg	50	4080701	MS	07-Aug-14	8260	
Ethylbenzene*	ND	0.05	00 mg/kg	50	4080701	MS	07-Aug-14	8260	
m-p Xylenes*	ND	0.1)() mg/kg	50	4080701	MS	07-Aug-14	8260	
o-Xylene*	ND	0.05	00 mg/kg	50	4080701	MS	07-Aug-14	8260	
Total Xylenes*	ND	0.1	50 mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,2,2-Tetrachloroethane*	ND	0.05	00 mg/kg	50	4080701	MS	07-Aug-14	8260	
Naphthalene*	ND	0.05	00 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	0.0	40 mg/kg	40	4080102	CK	19-Aug-14	8270C	
2-Methylnaphthalene	ND	0.0	40 mg/kg	40	4080102	CK	19-Aug-14	8270C	
1-Methylnaphthalene	ND	0.0	40 mg/kg	40	4080102	CK	19-Aug-14	8270C	
Acenaphthylene	ND	0.0	40 mg/kg	40	4080102	CK	19-Aug-14	8270C	
Acenaphthene	ND	0.0	40 mg/kg	40	4080102	CK	19-Aug-14	8270C	
Fluorene	ND	0.0	40 mg/kg	40	4080102	CK	19-Aug-14	8270C	
Phenanthrene	ND	0.0	40 mg/kg	40	4080102	CK	19-Aug-14	8270C	
Anthracene	ND	0.0	40 mg/kg	40	4080102	CK	19-Aug-14	8270C	
Carbazole	ND	0.0	40 mg∕kg	40	4080102	CK	19-Aug-14	8270C	

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JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

LOVINGTON NM, 88260

Project Number: JAY DAN LF

Project Manager: GREG WATSON

Fax To:

CELL 2 - A H402388-05 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	d Laborat	ories					
Semivolatile Organic Compound	ls 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]flouranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]flouranthene	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-0
Surrogate: 2-Fluorobiphenyl		124 %	27.2-	92.9	4080102	CK	19-Aug-14	8270C	S-0
Surrogate: Terphenyl-dl4		164 %	21.3-	96.1	4080102	CK	19-Aug-14	8270C	S-0
		Green Anal	ytical Lab	oratories					
General Chemistry									
Cyanide, Total	ND	1.00	mg/kg dry	100	B408150	KLJ	18-Aug-14	EPA9012B	
% Dry Solids	96.9		%	1	B408097	LLG	13-Aug-14	EPA160.3	Н
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 ICP								.,	
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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JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF
Project Manager: GREG WATSON

31-Aug-14 11:56

Fax To:

CELL 2 - A H402388-05 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Labo	oratories					
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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Jay dan landfarm Po box 632 Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF

Reported: 31-Aug-14 11:56

LOVINGTON NM, 88260 Project Manager: GREG WATSON

Fax To:

CELL 2 - B H402388-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	d Laborato	ries					
Inorganic Compounds										
Chloride	ND		16.0	mg/kg	4	4080710	AP	11-Aug-14	4500-CI-B	
pH*	8.06		0.100	pH Units	1	4081204	AP	12-Aug-14	9045	
Phenols	ND		0.7	ng/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					,,					
ГРН 418.1	ND		100	mg/kg	10	4080611	CK	18-Aug-14	418.1	
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: Tetrachioro-meta-xylene			66.2 %	35-14	40	4083104	CK	09-Aug-14	8082	
Volatile Organic Compounds by	EPA Method 82601	В								
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-Dichloroeth ane*	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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JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON

Fax To:

CELL 2 - B H402388-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by E	PA Method 8260)B								
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 %	<i>70</i> -	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-Methyln aphth alene	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	
Phen an thren e	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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JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF Project Manager: GREG WATSON

ATSON

Fax To:

CELL 2 - B H402388-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Semivolatile Organic Compounds l	oy 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]flouranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]flouranthene	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-dl4			159 %	21.3-	96.1	4080102	CK	19-Aug-14	8270C	S-04
		Ć	Green Analy	ytical Lab	oratories					
General Chemistry										
Cyanide, Total	ND		1.00	mg/kg dry	100	B408150	KLJ	18-Aug-14	EPA9012B	
% Dry Solids	98.5			%	1	B408097	LLG	13-Aug-14	EPA160.3	H
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 ICP										
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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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	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Lab	oratories					
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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Celen D. Keine



JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF
Project Manager: GREG WATSON

oject mariager: GREG WAT

Fax To:

CELL 2 - C H402388-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	d Laborato	ories					
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	ΑP	12-Aug-14	9045	
Phenois	ND		0.4	ng/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	
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 %	35-1	40	4083104	CK	09-Aug-14	8082	
Volatile Organic Compounds by	EPA Method 8260	В								
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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Celly & Keine



JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

LOVINGTON NM, 88260

Project Number: JAY DAN LF
Project Manager: GREG WATSON

Fax To:

CELL 2 - C H402388-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	Laborat	ories					
Volatile Organic Compounds by E	PA Method 8260)B								
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	826 0	
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 %	7 0 -	130	4080701	MS	07-Aug-14	8260	
Surrogate: Toluene-d8			110 %	7 0 -	130	4080701	MS	07-Aug-14	8260	
Surrogate: 4-Bromofluorobenzene			91.7%	7 0 -	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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Celing & Keena



JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

LOVINGTON NM, 88260

Project Number: JAY DAN LF

Project Manager: GREG WATSON

Fax To:

CELL 2 - C H402388-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	d Laborat	ories					
Semivolatile Organic Compound	ls 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]flouranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]flouranthene	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-dl4			166 %	21.3-	96.1	4080102	CK	19-Aug-14	8270C	S-04
		G	reen Anal	ytical Labo	oratories					
General Chemistry										
Cyanide, Total	ND		1.00	mg/kg dry	100	B408150	KLJ	18-Aug-14	EPA9012B	
% 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 & Kuna



JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632

Project Number: JAY DAN LF

31-Aug-14 11:56

LOVINGTON NM, 88260

Project Manager: GREG WATSON

Fax To:

CELL 2 - C H402388-07 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Ana	lytical Lab	oratories					
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. Keena



Jay dan landfarm Po box 632 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF

Project Manager: GREG WATSON

Fax To:

CELL 2 - D H402388-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	d Laborato	ries					
Inorganic Compounds									-	
Chloride	ND		16.0	mg/kg	4	4080710	AP	11-Aug-14	4500-CI-B	
pH*	8.05		0.100	pH Units	1	4081204	AP	12-Aug-14	9045	
Phenols	ND		0.4 1	ng/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	
Radionuclides										SUB-RS
Radium-226	$\boldsymbol{0.7 \pm 0.1}$			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 %	35-14	4 0	4083104	CK	09-Aug-14	8082	
Volatile Organic Compounds by	EPA Method 8260B	3								
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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JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF

Project Manager: GREG WATSON

Fax To:

CELL 2 - D H402388-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by E	PA Method 8260)B								
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	40 807 01	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	826 0	
Tetrachloroethene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	826 0	
1,1,2-Trichloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	826 0	
1,2-Dibromoethane*	ND		0.0500	mg/kg	50	40807 01	MS	07-Aug-14	8260	
Ethylbenzene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	826 0	
m-p Xylenes*	ND		0.100	mg/kg	50	4080701	MS	0 7-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	40807 01	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 %	<i>70</i> -	130	4080701	MS	07-Aug-14	8260	
Surrogate: Toluene-d8			111 %	<i>70</i> -	130	4080701	MS	07-Aug-14	8260	
Surrogate: 4-Bromofluorobenzene			97.0%	<i>70</i> -	130	4080701	MS	07-Aug-14	8260	
Semivolatile Organic Compounds	by GCMS									
Naphth alene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
2-Methyln a phthalene	ND		0.040	mg/kg	40	4080102	C K	19-Aug-14	8270C	
1-Methyln aphthalene	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	C K	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 & Kuna



JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF

Project Manager: GREG WATSON

Fax To:

CELL 2 - D H402388-08 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	ories					
Semivolatile Organic Compoun	ds 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]flouranthene	ND	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]flouranthene	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	СК	19-Aug-14	8270C	S-0
Surrogate: 2-Fluorobiphenyl		130 %	27.2-	92.9	4080102	CK	19-Aug-14	827 0 C	S-0
Surrogate: Terphenyl-dl4		162 %	21.3-	96.1	4080102	CK	19-Aug-14	8270C	S-0
		Green Anal	ytical Lab	oratories					
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	Н
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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Celey & Keine



JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632 LOVINGTON NM, 88260

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

Fax To:

CELL 2 - D H402388-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Tmon Analy	Haal I ab	oretories					

Total Metals by ICPMS		Green Anal	,					
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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Celey D. Keine



JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON

Fax To:

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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:	0 7- 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				
рН	7.15		pH Units	7.00		102	90-110			
Duplicate (4081203-DUP1)	Sour	ce: H402339	-01	Prepared &	Analyzed:	12-Aug-14				
рН	7.45	0.100	pH Units		7.43			0.269	20	
Batch 4081204 - NO PREP										
LCS (4081204-BS1)				Prepared &	Analyzed:	12-Aug-14				
pН	7.09		pH Units	7.00		101	90-110			
Duplicate (4081204-DUP1)	Sour	ce: 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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JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

LOVINGTON NM, 88260

Project Number: JAY DAN LF

Project Manager: GREG WATSON

Fax To:

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	7	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: 1	15-Aug-14 A	Analyzed: 1	9-Aug-14			
Phenois	ND	0.5	mg/kg dry wt.							,
LCS (4083105-BS1)				Prepared: 1	5-Aug-14 A	Analyzed: 1	9-Aug-14			
Phenols	0.4		mg/kg	0.400		90.2	70-130			
Matrix Spike (4083105-MS1)	Sou	rce: H402386	3-01	Prepared: 1	15-Aug-14 A	Analyzed: 1	9-Aug-14			
Phenols	19.7		mg/kg	20.3	0.0	97.0	70-130			
Matrix Spike Dup (4083105-MSD1)	Sou	rce: H402388	3-01	Prepared: 1	15-Aug-14 A	Analyzed: 1	9-Aug-14			
Phenols	19.1		mg/kg	20.3	0.0	94.1	70-130	3.09	20	

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JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

LOVINGTON NM, 88260

Project Number: JAY DAN LF
Project Manager: GREG WATSON

Fax To:

Organic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC	222	RPD	••
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4080611 - Solvent Extraction										
Blank (4080611-BLK1)				Prepared &	Analyzed:	18-Aug-14	ı			
TPH 418.1	ND	100	mg/kg							
LCS (4080611-BS1)				Prepared &	Analyzed:	18-Aug-14	ļ.			
TPH 418.1	5340	100	mg/kg	5000		107	80-120			
LCS Dup (4080611-BSD1)				Prepared &	Analyzed:	18-Aug-14	1			
TPH 418.1	5230	100	mg/kg	5000		105	80-120	2.06	20	

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JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

PO BOX 632 LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON

Fax To:

PCBs BY GC/ECD - Quality Control

Cardinal Laboratories

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

Prepared: 06-Aug-14 Analyzed: 09-Aug-14	
Prepared: 06-Aug-14 Analyzed: 09-Aug-14	
10.0 80.2 35-140	
Prepared: 06-Aug-14 Analyzed: 09-Aug-14	
100 63.5 40-130	
100 110 40-130	
10.0 97.8 35-140	
Prepared: 06-Aug-14 Analyzed: 09-Aug-14	
100 ND 62.9 40-130	
100 ND 66.1 40-130	
10.0 75.5 35-140	
Prepared: 06-Aug-14 Analyzed: 09-Aug-14	
100 ND 76.6 40-130 19.6 30	
100 ND 64.9 40-130 1.83 30	
10.0 79.6 35-140	
	10.0 80.2 35-140 Prepared: 06-Aug-14 Analyzed: 09-Aug-14 100 63.5 40-130 100 110 40-130 10.0 97.8 35-140 Prepared: 06-Aug-14 Analyzed: 09-Aug-14 100 ND 62.9 40-130 100 ND 66.1 40-130 10.0 75.5 35-140 Prepared: 06-Aug-14 Analyzed: 09-Aug-14 100 ND 76.6 40-130 19.6 30 100 ND 64.9 40-130 1.83 30

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JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

PO BOX 632 LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON

Fax To:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
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			B
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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Celley & Kenne



Analytical Results For:

JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Spike

Source

Reported: 31-Aug-14 11:56

RPD

LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON

Fax To:

Reporting

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
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	70-13 0			
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	
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	7 0-130	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	BS
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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Analytical Results For:

JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Spike

Source

Reported: 31-Aug-14 11:56

RPD

LOVINGTON NM, 88260

Project Number: JAY DAN LF

Project Manager: GREG WATSON

Fax To:

Reporting

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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	7 0 -130			
Surrogate: 4-Bromofluorobenzene	0.509		mg/kg	0.500		102	70-130			

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Celley & Kuna

Limits

RPD



Analytical Results For:

JAY DAN LANDFARM PO BOX 632

Analyte

Project: JAY DAN LF (NM1-0045)

Spike

Level

Source

Result

Reported: 31-Aug-14 11:56

RPD

Limit

Notes

PO BOX 632 LOVINGTON NM, 88260

Batch 4080102 - SW846-3510

Project Number: JAY DAN LF
Project Manager: GREG WATSON

%REC

105

115

105

107

109

110

101

110

5.46-157

16.1-146

21.6-144

27-143

30.9-138

38.6-149

36.1-149

29.8-144

Fax To:

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Result

0.419

0.459

0.421

0.426

0.438

0.440

0.403

0.439

0.040

0.040

0.040

0.040

0.040

0.040

0.040

0.040

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

0.400

0.400

0.400

0.400

0.400

0.400

0.400

Blank (4080102-BLK1)				Prepared: 01-Au	g-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				
Рутепе	ND	0.040	mg/kg				
Benzo[a]anthracene	ND	0.040	mg/kg				
Chrysene	ND	0.040	mg/kg				
Benzo[b]flouranthene	ND	0.040	mg/kg				
Benzo[k]flouranthene	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-dl4	2.09		mg/kg	2.00	105	21.3-96.1	
LCS (4080102-BS1)				Prepared: 01-Au	g-14 Analyzed:	05-Aug-14	

Cardinal Laboratories

Naphthalene

2-Methylnaphthalene

Acenaphthylene

Acenaphthene

Phenanthrene

Anthracene

Carbazole

Fluorene

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Celey & Keena



JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported:

LOVINGTON NM, 88260

Project Number: JAY DAN LF

31-Aug-14 11:56

Project Manager: GREG WATSON

Fax To:

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4080102 - SW846-3510										
LCS (4080102-BS1)				Prepared: 0	1-Aug-14 A	Analyzed: 0	5-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]flouranthene	0.393	0.040	mg/kg	0.400		98.2	17.6-158			
Benzo[k]flouranthene	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-dl4	2.09		mg/kg	2.00		104	21.3-96.1			
LCS Dup (4080102-BSD1)				Prepared: (1-Aug-14 A	Analyzed: 0	5-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	
Pluorene	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]flouranthene	0.430	0.040	mg/kg	0.400		107	17.6-158	9.04	31.4	
Benzo[k]flouranthene	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	
ndeno[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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Celly & Keens



JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON

Fax To:

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

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

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-dl4	2.09		mg/kg	2.00	105	21.3-96.1					

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Celly & Keine



JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632 LOVINGTON NM, 88260

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

Fax To:

General Chemistry - Quality Control

Green Analytical Laboratories

	- ·	Reporting	FT 14	Spike	Source	A/DEG	%REC	DDD	RPD	N-4
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
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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Celley & Kuna



JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:56

LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON

Fax To:

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B408065 - General Prep - Wet Chem										
Blank (B408065-BLK1)				Prepared &	t Analyzed: (8-Aug-14				
Nitrite as N	ND	0.200	mg/kg wet							
LCS (B408065-BS1)				Prepared &	Analyzed: (8-Aug-14				
Nitrite as N	0.101	0.020	mg/kg wet	0.100		101	80-120			
LCS Dup (B408065-BSD1)				Prepared &	Analyzed: ()8-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: 1	19-Aug-14				
Nitrate/Nitrite as N	ND	0.020	mg/kg wet							
LCS (B408161-BS1)				Prepared &	Analyzed: 1	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: 1	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: 2	26-Aug-14				
Fluoride	ND	0.200	mg/kg wet							
LCS (B408235-BS1)				Prepared &	Analyzed: 2	26-Aug-14				
Fluoride	1.06	0.200	mg/kg wet	1.00		106	85-115			

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Celley D. Keine



JAY DAN LANDFARM PO BOX 632 LOVINGTON NM, 88260 Project: JAY DAN LF (NM1-0045)

Project Number: JAY DAN LF

Reported: 31-Aug-14 11:56

Project Manager: GREG WATSON

Fax To:

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

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

Batch B408235 - General Prep - Wet Chem

LCS Dup (B408235-BSD1)			Prepared & A	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. Keine



JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF
Project Manager: GREG WATSON

31-Aug-14 11:56

Fax To:

Total Metals by ICP - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B408112 - EPA 3050				· · · · · · · · · · · · · · · · · · ·						
Blank (B408112-BLK1)				Prepared: 1	3-Aug-14	Analyzed: 2	0-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: 1	3-Aug-14	Analyzed: 2	0-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: 1	3-Aug-14	Analyzed: 2	0-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 & Keine

Limits

85-115

85-115

85-115

85-115

85-115

3.21

0.608

0.578

1.88

103

96.8

98.7

102

RPD



Analytical Results For:

JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Spike

Level

Source

Result

%REC

Reported: 31-Aug-14 11:56

RPD

Limit

20

20

20

20

Notes

LOVINGTON NM, 88260

Analyte

Cadmium

Chromium

Copper

Lead

Silver

Project Number: JAY DAN LF Project Manager: GREG WATSON

Fax To:

Total Metals by ICPMS - Quality Control

Green Analytical Laboratories

Units

Reporting

Limit

Result

0.516

0.484

0.494

0.509

0.453

Blank (B408169-BLK1)				Prepared & Anal	lyzed: 21-Aug-14	ļ			
Copper	0.0004	0.0001	mg/kg dry						В
Manganese	0.0016	0.0005	mg/kg dry						В
Lead	0.0008	0.0005	mg/kg dry						В
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 & Anal	yzed: 21-Aug-14	ı			
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			
Uranjum	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 & Anal	yzed: 21-Aug-14	ı			
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	

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0.500

0.500

0.500

0.500

0.0001 mg/kg dry

0.0010 mg/kg dry

0.0001 mg/kg dry

0.0005 mg/kg dry

0.0001 mg/kg dry

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Celley to Keena



JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported:

LOVINGTON NM, 88260

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

Fax To:

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. Kuna



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 blased low.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
B 1	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 SM4500CI-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 & Keens



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Sampler - UPS - Bus - Other: 44 6 #54 Sample Condition (Indiate) Sampler - UPS - Bus - Other: 44 6 #54 Sample Condition (Indiate) Sampler - UPS - Bus - Other: 44 6 #54 Sample Condition (Indiate)	Time: Received By: 0 A+B	COLLEGE REMARKS: REMARKS:	# DY DIN	alog has it regigeme sed sy she mas viabover shal to denset valued wises mak it villing set restent by Cashel white 36 days the I Cashel to habis its buildadd et empoquenti domgos, indicing wheel habitos, buildes intercepting by et us, et has et petts beared by it	The same of the sa	XC20 2 - D VK V V V V V V V X	ジ・ C ファーフーラー 8件に	C 2 2 - B V V V 9 12:35	5 Cest 2 - 17 06 0 3 94 11:50	4 C 20 1 - D 211 U U U SIF 11:10	3 C 04 1 - C 014 V V V V 19:35	2 500 1- 3 261 2 2 2 2 2 2 2	- Cabo - A J6 J J 34 5:40	BTEX	MATRIX PRESERV SAMPLING	Project Location: Unif E 32 - (5 · 35 Phone #:	State: Zip:	Project 8: The Dan LE Project Owner: D. Walden City:	348 2 Fax to Address 4	State: NIN Zip: 88260	32 Company:	CONTRACTOR OF THE PROPERTY OF
	20. L · 2313	J NO JAGUTAX 9	No Add Phone #:											Borch	الماري الماري الماري الماري	,						

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

+ Cardinal cann	Sampler - UPS - Bu	Delivered By: (Circle One)	Ų	100 C	Relinquished By:	eralyses. All dalow building bear for neg contine. In second shall Cardinal be Babb. Effects as oppositions white out of as ret-	PLEASE NOTE: Unbilly und Damag	37		3	ه ي (ج		C)	Ţ	4	はは	Lab I.D. Hyu3388	FOR LAB USE CHLY	Sampler Name: C.	Project Location:	Project Name:	Project #: Jan D	L .	City: LOU WAS	1 -	Project Manager:	Company Name:	(676) 3
Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326	Sampler - UPS - Bus - Other: 44 6 #	rcle One)	Time:	OC 9 930		Agence and any other cause whethcover st he heldertal or consequental damages, to ted to the performance of vervices herourd	Mr. Cardhai's fahiliy and clum's eachairs nonedy			2-12	10 2 - H		10 - J	8 - 6	11-B	1 - H	Sample I.D.		WEDSOM	洋E 32.15	tom LF (1	Day C4 Project Owner.	3497 Fax #	State: NN Zip:	632	. Western	THE CH	(576) 393-2326 FAX (575) 393-2476
ease fax written changes t	井 心子 日本語日	Sample Condition			Received By:	ad bo deemed wakted urbats made its valling i challing without faultation, bushees interruption of by Carolina, regardness of whether each chil	The say date artists whether based is seen	V 6	- 5	2	ر ا ا ا	,	ジ (ローレ	200	ンな	2 2	(G) (G) (C) OMP. CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	MATRIX		. 35	NM.81. 245)	er d. William		Zip: 947.40				
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		619		٥	Phone Result:	emphilim of the applicable Lex, the extended text.	by the class for the	1.58	1.10	/3:36	105:11		11:10	75.01	10:00	6.40	Benzo Copper	-	<u> </u>		-	ير	دو	-1/2				
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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 accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)

Method EPA 524.4 Regulated VOCs (V1, V2, V3)

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

Method SM 9223-B Total Coliform and E. coli (Colliert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keine

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632

Project Number: JAY DAN LF

31-Aug-14 12:16

LOVINGTON NM, 88260

Project Manager: GREG WATSON Fax To:

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

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JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 12:16

Project Number: JAY DAN LF LOVINGTON NM, 88260

Project Manager: GREG WATSON

Fax To:

CELL 3 - A H402389-01 (Soil)

Analyte	Result	MDL Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborato	ories					
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	
Phenois	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	
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 %	35-1	40	4083104	CK	09-Aug-14	8082	
Volatile Organic Compounds by	EPA Method 8260E	<u> </u>							
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	

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Celley D. Keena



JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 12:16

LOVINGTON NM, 88260

Project Number: JAY DAN LF
Project Manager: GREG WATSON

NAI .

Fax To:

CELL 3 - A H402389-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by E	PA Method 8260	OB								
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	

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Celeg & Kuna



JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 12:16

LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON

Fax To:

CELL3-A H402389-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	d Laborat	ories					
Semivolatile Organic Compoun	ds 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]flouranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]flouranthene	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-dl4			152 %	21.3-	96.1	4080102	CK	19-Aug-14	8270C	S-04
		Gr	een Anal	ytical Lab	oratories					
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	

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Celley & Keena



JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported:

LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON

31-Aug-14 12:16

Fax To:

CELL3-A H402389-01 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Lab	oratories					
Total Metals by ICP									
Zinc	34.2	5.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010 B	
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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Celeg to Krana



JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 12:16

LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON

Fax To:

CELL3-B H402389-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborato	ries					
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 r	ng∕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	
Radionuclides										
Radium-226	ND		0.30	pCi/gram	1	4083103	СК	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 %	35-14	10	4083104	CK	09-Aug-14	8082	
Volatile Organic Compounds by E	PA Method 8260	В								
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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alex Stream



JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632

Project Number: JAY DAN LF

31-Aug-14 12:16

LOVINGTON NM, 88260

Project Manager: GREG WATSON

Fax To:

CELL 3 - B H402389-02 (Soil)

Cardinal Laboratories Cardinal Laboratories Cardinal C	Analyte	Result	MDL R	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Carbon tetrachloride* ND 0.0500 mg/kg 50 4080701 MS 07-Aug-14 8260 L1,1,1-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 L2-Dichloroethane* ND 0.0500 mg/kg 50 4080701 MS 07-Aug-14 8260 Trichloroethane* ND 0.0500 mg/kg 50 4080701 MS 07-Aug-14 8260 Tetrachloroethane* ND 0.0500 mg/kg 50 4080701 MS 07-Aug-14 8260 L1,2-Trichloroethane* ND 0.0500 mg/kg 50 4080701 MS 07-Aug-14 8260 L1,2-Trichloroethane* ND 0.0500 mg/kg 50 4080701 MS 07-Aug-14 8260 L1,2-Trichloroethane* ND 0.0500 mg/kg 50 4080701				Cardinal	Laborate	ories					
1,1,1-Trichloroethane* ND 0.0500 mg/kg 50 4080701 MS 07-Aug-14 8260	Volatile Organic Compounds by E	PA Method 8260)B								
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 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 1,2-Dibromoethane* 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	Carbon tetrachloride*	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 1,2-Dibromoethane* ND 0.0500 mg/kg 50 4080701 MS 07-Aug-14 8260 1,1,2-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 Catal Yylene* ND 0.0500 mg/kg 50 4080701 MS 07-Aug-14 8260 Total Xylene* ND 0.0500 mg/kg 50 4080701 MS	1,1,1-Trichloroethane*	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	Benzene*	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	1,2-Dichloroethane*	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 0.0500 mg/kg 50 4080701 MS 07-Aug-14 8260 o-Xylene* ND 0.0500 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 0.0500 mg/kg 50 4080701 MS 07-Aug-14 8260 Total Xylenes* 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 Naphthalene* ND 0.0500 mg/kg 50 4080701 MS 07-Aug-14 8260 Surrogate: Dibromofluoromethane S8.1 % 70-130 4080701 MS 07-Aug-14 8260 Surrogate: Toluene-d8 Surrogate: Toluene-d8 Surrogate: 4-Bromofluorobenzene 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 Accenaphthylene 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 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 Phenanthrene 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	Trichloroethene*	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 Ethylbenzene* ND 0.0500 mg/kg 50 4080701 MS 07-Aug-14 8260 M-p Xylenes* ND 0.0500 mg/kg 50 4080701 MS 07-Aug-14 8260 O-Xylene* ND 0.0500 mg/kg 50 4080701 MS 07-Aug-14 8260 O-Xylene* ND 0.150 mg/kg 50 4080701 MS 07-Aug-14 8260 Naphthalene* 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 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 Semivolatile Organic Compounds by GCMS Semivolatile Organic Compounds by GCMS 94.6 % 70-130 4080102 CK 19-Aug-14 8270C C-Methylnaphthalene ND 0.040 mg/kg 40 4080102 CK 19-Aug-14 8270C C-Methylnaphthalene ND 0.040 mg/kg 40 4080102 CK 19-Aug-14 8270C Accenaphthylene ND 0.040 mg/kg 40 4080102 CK 19-Aug-14 8270C Accenaphthylene ND 0.040 mg/kg 40 4080102 CK 19-Aug-14 8270C C-Methylnaphthalene ND 0.040 mg/kg 40 4080102 CK 19-Aug-14 8270C C-Methylnaphthalene ND 0.040 mg/kg 40 4080102 CK 19-Aug-14 8270C C-Methylnaphthalene ND 0.040 mg/kg 40 4080102 CK 19-Aug-14 8270C C-Methylnaphthalene ND 0.040 mg/kg 40 4080102 CK 19-Aug-14 8270C C-Methylnaphthalene ND 0.040 mg/kg 40 4080102 CK 19-Aug-14 8270C C-Methylnaphthalene ND 0.040 mg/kg 40 4080102 CK 19-Aug-14 8270C C-Methylnaphthalene ND 0.040 mg/kg 40 4080102 CK 19-Au	Toluene*	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 I,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 <tr< td=""><td>Tetrachloroethene*</td><td>ND</td><td></td><td>0.0500</td><td>mg/kg</td><td>50</td><td>4080701</td><td>MS</td><td>07-Aug-14</td><td>8260</td><td></td></tr<>	Tetrachloroethene*	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 Total Xylenes* 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 Semivolatile Organic Compounds by GCMS Semivolatile Organic Compounds by GCMS ND 0.040 mg/kg 40 4080702 CK	1,1,2-Trichloroethane*	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-Xylenes* 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: A-Bromofluorobenzene 94.6 % 70-130 4080701 MS 07-Aug-14 8260 Semivolatile Organic Compounds by GCMS 0.040 mg/kg 40 4080701 MS 07-Aug-14 8260 Semivolatile Organic Compounds by GCMS 0.040 mg/kg 40 4080102 CK 19-Aug-14 8270C	1,2-Dibromoethane*	ND		0.0500	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 Semivolatile Organic Compounds by GCMS VI 4080701 MS 07-Aug-14 8260 Semivolatile Organic Compounds by GCMS Semivolatile Organic Compounds by GCMS VI 4080701 MS 07-Aug-14 8260	Ethylbenzene*	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	m-p Xylenes*	ND		0.100	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-dB 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 Semivolatile Organic Compounds by GCMS Naphthalene ND 0.040 mg/kg 40 4080102 CK 19-Aug-14 8270C Semivolatile Organic Compounds by GCMS ND 0.040 mg/kg 40 4080102 CK 19-Aug-14 8270C Semivolatile Organic Compounds by GCMS ND 0.040 mg/kg 40 4080102 CK 19-Aug-14 8270C Semivolatile Organic Compounds by GCMS ND	o-Xylene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Naphthalene	Total Xylenes*	ND		0.150	mg/kg	50	4080701	MS	07-Aug-14	8260	
Surrogate: Dibromofluoromethane	1,1,2,2-Tetrachloroethane*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
109 % 70-130 4080701 MS 07-Aug-14 8260	Naphthalene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
Surrogate: 4-Bromofluorobenzene 94.6 % 70-130 4080701 MS 07-Aug-14 8260	Surrogate: Dibromofluoromethane			88.1 %	70-1	30	4080701	MS	07-Aug-14	8260	
Naphthalene ND 0.040 mg/kg 40 4080102 CK 19-Aug-14 8270C	Surrogate: Toluene-d8			109%	70-1	30	4080701	MS	07-Aug-14	8260	
Naphthalene ND 0.040 mg/kg 40 4080102 CK 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	Surrogate: 4-Bromofluorobenzene			94.6 %	70-1	130	4080701	MS	07-Aug-14	8260	
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	Semivolatile Organic Compounds	by GCMS									
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	Naphthalene	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	2-Methylnaphthalene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Acenaphthene ND 0.040 mg/kg 40 4080102 CK 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	1-Methylnaphthalene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Fluorene ND 0.040 mg/kg 40 4080102 CK CK 19-Aug-14 8270C Phenanthrene ND 0.040 mg/kg 40 4080102 CK CK 19-Aug-14 8270C Anthracene 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	
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	Acenaphthene	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	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	
Carbazole 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 & Keena



JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 12:16

LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON

Fax To:

CELL3-B H402389-02 (Soil)

Analyte	Result	MDL Re	porting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		C	Cardina	al Laborat	ories					
Semivolatile Organic Compoun	ds 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)flouranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]flouranthene	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-0-
Surrogate: 2-Fluorobiphenyl			172%	27.2-	92.9	4080102	CK	19-Aug-14	8270C	S-0-
Surrogate: Terphenyl-dl4			222 %	21.3-	96.1	4080102	CK	19-Aug-14	8270C	S-0-
		Gree	n Anal	ytical Labo	oratories					
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	H
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	
l'otal Metals by ICP										
Barium	95.5		1.00	mg/kg dry	100	B408112	JGS	20-Aug-14	EPA6010B	
(ron	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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Celley D. Keena



JAY DAN LANDFARM LOVINGTON NM, 88260 Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632

Project Number: JAY DAN LF Project Manager: GREG WATSON 31-Aug-14 12:16

Fax To:

CELL3-B H402389-02 (Soil)

Analyte	Result	MDL L	ting imit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green A	naly	tical Labo	oratories					
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	0.1	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	0.5	500	mg/kg dry	1000	B408169	JGS	21-Aug-14	6020 A	
Selenium	ND	1	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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alex Druna



JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 12:16

LOVINGTON NM, 88260

Project Number: JAY DAN LF

Project Manager: GREG WATSON

Fax To:

CELL3-C H402389-03 (Soil)

Analyte	Result	Report MDL Li	ing mit Un	its Dilution	Batch	Analyst	Analyzed	Method	Notes
		Car	dinal Lal	oratories			-		
Inorganic Compounds									,
Chloride	ND	1	6.0 mg	√kg 4	4080710	AP	11-Aug-14	4500-CI-B	
pH*	8.07	0.1	00 pH (Inits 1	4081204	AP	12-Aug-14	9045	
Phenols	ND		2.7 mg/kg	drywt. 1	4083105	CK	19-Aug-14	EPA9065	SUB-AL
Sulfate	72.1	4).0 mg	%g 4	4081306	AP	13-Aug-14	375.4	
Organic Compounds									
TPH 418.1	ND	1	00 mg	Nog 10	4080611	CK	18-Aug-14	418.1	
Radionuclides									
Radium-226	ND	0	70 pCi/g	gram 1	4083103	CK	28-Aug-14	GammaRay HPGE	
Radium-228	ND	0	.90 pCi/g	gram 1	4083103	CK	28-Aug-14	GammaRay HPGE	
Total Radium	ND	0	.90 pCi/g	gram 1	4083103	CK	28-Aug-14	GammaRay HPGE	
PCBs BY GC/ECD									SUB-SS
PCB 1016	ND	1	0.0 ug/	kg 1	4083104	CK	09-Aug-14	8082	
PCB 1221	ND	1	0.0 ug/	kg 1	4083104	CK	09-Aug-14	8082	
PCB 1232	ND	1	0.0 ug/	kg 1	4083104	CK	09-Aug-14	8082	
PCB 1242	ND	1).0 ug/	kg 1	4083104	CK	09-Aug-14	8082	
PCB 1248	ND	1	0.0 ug/	kg 1	4083104	CK	09-Aug-14	8082	
PCB 1254	ND	1).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 E	PA Method 8260	В							
Vinyl chloride*	ND	0.05	00 mg	Nog 50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethene*	ND	0.05	00 mg/	kg 50	4080701	MS	07-Aug-14	8260	
Methylene chloride*	ND	0.05	00 mg/	kg 50	4080701	MS	07-Aug-14	8260	
1,1-Dichloroethane*	ND	0.05	00 mg/	kg 50	4080701	MS	07-Aug-14	8260	
Chloroform*	ND	0.05	00 mg/	kg 50	4080701	MS	07-Aug-14	8260	

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alex Steins



JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 12:16

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF

Project Manager: GREG WATSON

Fax To:

CELL 3 - C H402389-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by I	EPA Method 826	0B								
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 %	7 0 -	130	4080701	MS	07-Aug-14	8260	
Surrogate: 4-Bromofluorobenzene			93.1 %	7 0 -	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	82 7 0C	
Acen aphthylene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	82 7 0C	
Acenaphthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	82 7 0C	
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	82 70 C	
Carbazole	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	

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Celley & Keine



JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632 LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON 31-Aug-14 12:16

Fax To:

CELL3-C H402389-03 (Soil)

Analyte	Result	MDL Re	eporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		(Cardina	ıl Laborat	ories					
Semivolatile Organic Compoun	ds 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]flouranthene	ND		0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]flouranthene	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-dl4			148 %	21.3-	96.1	4080102	CK	19-Aug-14	8270C	S-04
		Gree	n Analy	ytical Lab	oratories					
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	H
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 ICP										
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 & Kenna

Celey D. Keene, Lab Director/Quality Manager



JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF

31-Aug-14 12:16

Project Manager: GREG WATSON

Fax To:

CELL 3 - C H402389-03 (Soil)

Analyte	Result	MDL Reporting	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Labo	oratories					
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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Celley & Keene



JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF
Project Manager: GREG WATSON

31-Aug-14 12:16

Fax To:

CELL 3 - D H402389-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	d Laborato	ries					
Inorganic Compounds										
Chloride	ND		16.0	mg/kg	4	408071 0	AP	11-Aug-14	4500-CI-B	
pH*	7.98		0.100	pH Units	1	4081204	AP	12-Aug-14	9045	
Phenois	ND		2.6 r	ng/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	
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 %	35-14	10	4083104	CK	09-Aug-14	8082	
Volatile Organic Compounds by 1	EPA Method 8260	В								
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 & Keena

Celey D. Keene, Lab Director/Quality Manager



JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF Project Manager: GREG WATSON 31-Aug-14 12:16

Fax To:

CELL 3 - D H402389-04 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Volatile Organic Compounds by E	PA Method 8260)B							
Carbon tetrachloride*	ND	0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,1,1-Trichloroethane ⁴	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 %	70-1	30	4080701	MS	07-Aug-14	8260	
Surrogate: Toluene-d8		109 %	70-1	30	4080701	MS	07-Aug-14	8260	
Surrogate: 4-Bromofluorobenzene		94.3 %	70-1	30	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 & Keine



JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632 LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON 31-Aug-14 12:16

Fax To:

CELL3-D H402389-04 (Soil)

Analyte	Result	MDL Repo	orting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
,		Ca	rdinal	Laborat	ories					
Semivolatile Organic Compound	ls by GCMS								···	
Fluoranthene	ND	0	0.040	mg/kg	40	4080102	CK	19 - Aug-14	8270C	
Pyrene	ND	0	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]anthracene	ND	0	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Chrysene	ND	0	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[b]flouranthene	ND	0).040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[k]flouranthene	ND	0	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[a]pyrene	ND	0	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Indeno[1,2,3-cd]pyrene	ND	0	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Dibenz[a,h]anthracene	ND	0	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Benzo[g,h,i]perylene	ND	0	0.040	mg/kg	40	4080102	CK	19-Aug-14	8270C	
Surrogate: Nitrobenzene-d5		88	3.4 %	16.1-	91.8	4080102	CK	19-Aug-14	8270C	
Surrogate: 2-Fluorobiphenyl		11	16%	27.2-	92.9	4080102	CK	19-Aug-14	8270C	S-0-
Surrogate: Terphenyl-dl4		13	56 %	21.3-	96.1	4080102	CK	19-Aug-14	8270C	S-0-
		Green	Analyt	tical Lab	oratories					
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	н
Soluble (DI Water Extraction)										
Fluoride	4.52	0		mg/kg dry	4	B408235	ABP	26-Aug-14	4500-F- C	
Nitrate/Nitrite as N	21.1	0		mg/kg dry	20	B408161	KLJ	19-Aug-14	EPA353.2	
Nitrite as N	ND	0	0.200 1	mg/kg dry	10	B408065	KLJ	08-Aug-14	EPA353.2	
Total Metals by ICP										
Barium	63.0			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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JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported:

Project Number: JAY DAN LF

31-Aug-14 12:16

LOVINGTON NM, 88260

Project Manager: GREG WATSON

Fax To:

CELL3-D H402389-04 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Lab	oratories					
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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JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 12:16

LOVINGTON NM, 88260

Project Number: JAY DAN LF
Project Manager: GREG WATSON

Fax To:

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	- Instant		2,110	20101	2135414					- 12-12-
Batch 4080710 - 1:4 DI Water										
Blank (4080710-BLK1)				Prepared &	Analyzed:	07-Aug-14				
Chloride	ND	16.0	mg/kg							
LCS (4080710-BS1)				Prepared &	t 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				. <u></u>						· · · · · · · · · · · · · · · · · · ·
LCS (4081204-BS1)				Prepared &	Analyzed:	12-Aug-14				
pH	7.09		pH Units	7.00		101	90-110			
Duplicate (4081204-DUP1)	Sou	rce: H402388	i-05	Prepared &	Analyzed:	12-Aug-14				
рН	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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JAY DAN LANDFARM PO BOX 632 LOVINGTON NM, 88260 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 12:16

Project Number: JAY DAN LF Project Manager: GREG WATSON

Fax To:

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4083105 - General Prep										
Błank (4083105-BLK1)				Prepared:	15-Aug-14	Analyzed: 1	9-Aug-14			
Phenois	ND	0.5	mg/kg dry wt.							
LCS (4083105-BS1)				Prepared:	15-Aug-14	Analyzed: 1	9-Aug-14			
Phenols	0.4		mg/kg	0.400		90.2	70-130			
Matrix Spike (4083105-MS1)	Sou	rce: H402380	3-01	Prepared:	15-Aug-14	Analyzed: 1	9-Aug-14			
Phenols	19.7		mg/kg	20.3	0.0	97.0	70-130			
Matrix Spike Dup (4083105-MSD1)	Sou	rce: H40238	3-01	Prepared:	15-Aug-14	Analyzed: 1	9-Aug-14			
Phenois	19.1		mg/kg	20.3	0.0	94.1	70-130	3.09	20	

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alex & Kuna



JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 12:16

LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON

Fax To:

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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%REC



Analytical Results For:

JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Source

Reported:

LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON 31-Aug-14 12:16

RPD

Fax To:

PCBs BY GC/ECD - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		WKEC		KPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4083104 - General Prep		,								
Blank (4083104-BLK1)				Prepared: (6-Aug-14	Analyzed: 0	9-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: ()6-Aug-14	Analyzed: 0	9-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)	Sour	rce: H402388-	-01	Prepared: ()6-Aug-14	Analyzed: 0	9-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)	Sour	rce: H402388-	-01	Prepared: ()6-Aug-14	Analyzed: 0	9-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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Analytical Results For:

JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Spike

Source

Reported: 31-Aug-14 12:16

RPD

LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON

Fax To:

Reporting

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
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							
,1,2-Trichloroethane	ND	0.0500	mg/kg							
,2-Dibromoethane	ND	0.0500	mg/kg							
Ethylbenzene	ND	0.0500	mg/kg							
n-p Xylenes	ND	0.100	mg/kg							
-Xylene	ND	0.0500	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
,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			
.CS (4080701-BS1)				Prepared &	: Analyzed:	07-Aug-14				
Vinyl chloride	1.24	0.0500	mg/kg				70-130			
,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			
,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	7 0-130			
Carbon tetrachloride	1.68	0.0500	mg/kg	2.00		84.2	70-130			
,1,1-Trichloroethane	1.55	0.0500	mg/kg	2.00		77.3	70-130			

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Celey D. Kruna

%REC



Analytical Results For:

JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Spike

Source

Reported:

RPD

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF
Project Manager: GREG WATSON

31-Aug-14 12:16

Fax To:

Reporting

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

		Keporung		Spike	Somoe		MEC		KFD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
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			BS
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	ı			
Vinyl chloride	1.32	0.0500	mg/kg			<u> </u>	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	BS
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	BS
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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JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632

Project Number: JAY DAN LF

31-Aug-14 12:16

LOVINGTON NM, 88260

Project Manager: GREG WATSON

Fax To:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

1		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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 & Keena



JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632

Project Number: JAY DAN LF Project Manager: GREG WATSON 31-Aug-14 12:16

LOVINGTON NM, 88260

Fax To:

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4080102 - SW846-3510										
Blank (4080102-BLK1)				Prepared: ()1-Aug-14	Analyzed: 0	5-Aug-14			
Naphthalene	ND	0.040	mg/kg							
2-Methylnaphthalene	ND	0.040	mg/kg							
l-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]flouranthene	ND	0.040	mg/kg							
Benzo[k]flouranthene	ND	0.040	mg/kg							
Benzo[a]py rene	ND	0.040	mg/kg							
ndeno[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-dl4	2.09		mg/kg	2.00		105	21.3-96.1			
LCS (4080102-BS1)				Prepared: (01-Aug-14	Analyzed: 0	5-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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JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 12:16

Project Number: JAY DAN LF LOVINGTON NM, 88260

Project Manager: GREG WATSON

Fax To:

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4080102 - SW846-3510										
LCS (4080102-BS1)				Prepared: 0)1-Aug-14 A	Analyzed: 0)5-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[bjflouranthene	0.393	0.040	mg/kg	0.400		98.2	17.6-158			
Benzo[k]flouranthene	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-dl4	2.09		mg/kg	2.00		104	21.3-96.1			
LCS Dup (4080102-BSD1)				Prepared: 0	1-Aug-14 A	Analyzed: 0	5-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	
Acermphthylene	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]flouranthene	0.430	0.040	mg/kg	0.400		107	17.6-158	9.04	31.4	
Benzo kjilouranthene	0.412	0.040	mg/kg	0.400		103	10.6-169	13.2	44.6	
Benzolajpyrene	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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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

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

Batch 4080102 - SW846-3510

LCS Dup (4080102-BSD1)				Prepared: 01-Au	g-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-dl4	2.09		mg/kg	2.00	105	21.3-96.1			

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JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 12:16

LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON

Fax To:

General Chemistry - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B408119 - General Prep - Wet Chem										
Blank (B408119-BLK1)				Prepared &	Analyzed:	13-Aug-14	l			
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	ļ <u> </u>			
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	1			
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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JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF Project Manager: GREG WATSON 31-Aug-14 12:16

Fax To:

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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			4							
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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JAY DAN LANDFARM PO BOX 632 LOVINGTON NM, 88260 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 12:16

Project Number: JAY DAN LF Project Manager: GREG WATSON

Fax To:

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD		l
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	١

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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Analytical Results For:

JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632

Project Number: JAY DAN LF Project Manager: GREG WATSON 31-Aug-14 12:16

LOVINGTON NM, 88260

Fax To:

Total Metals by ICP - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B408112 - EPA 3050		· · · · · · · · · · · · · · · · · · ·								
Blank (B408112-BLK1)				Prepared: 1	3-Aug-14	Analyzed: 2	0-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: 1	3-Aug-14	Analyzed: 2	0-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: 1	3-Aug-14 A	Analyzed: 2	0-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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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

A - lur	D 1	Reporting	TT - 54	Spike	Source	N/DEG	%REC	DDD	RPD	37-4
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B408169 - EPA 3050M										
Blank (B408169-BLK1)				Prepared &	Analyzed:	21-Aug-14				
Cadmium	ND	0.0001	mg/kg dry							
Соррет	0.0004	0.0001	mg/kg dry							1
Chromium	ND	0.0010	mg/kg dry							
Arsenic	ND	0.0005	mg/kg dry							
Lead	0.0008	0.0005	mg/kg dry							1
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							1
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	
Jranium	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 & Keine



JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF
Project Manager: GREG WATSON

31-Aug-14 12:16

Fax To:

Total Mercury by CVAA - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 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 & Keena



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 blased low.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially blased 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 SM4500CI-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 & Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page 36 of 38



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: Tay Cay CF Project Manager: G. W. O. Say Address: Say 632	P.O. #:	ANALYSIS REQUEST
Project #: 13192 Fax#:	Address:	blor ha ha
Ime: Jan Day LF (· 945)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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o Date	Fax #:	S IN C
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Lab I.D. Sample I.D. R. (C) OMP. CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	EDC DEE PCE TCE Methy Chlow EDF Trick Viny Polgar
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7 (9 %)		35.36
\$ C. 28 3 - D	2 2 2	5:(0
PLEASE RALE: Letting and United A. Common many and course exchange entered on the in- tendence. All debins behinding beans for negligence and any date causes whetherear shall be desired sarkers. In the present and Cordinal be liable for incidental or corresponded desirages, including valued afficience or exponence adming and of or injusted in the partnersector of services harmander by Cordinal.	united united made in willing majorally of by Conduct with 130 day building, business brancaption, and of they or less of profits branca tagetings of whether such data is bessel why any of the storms and	
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- 6	Sample Condition CHECKED BY:	
Sampler-UPS - Bus - Other: 4 4 45	₹ § ₹ §	. 3

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

Page 37 of 38



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Delivered By: (Circle One) Sampler - UPS - Bus - Other: 44; +54 - Sample Condition Sampler - UPS - Bus - Other: 44; +54 - Sample Condition No - No	Date:	TALASE NOTE: Usebly and Designs. Commits having and direct sections knowly at any case a ready where seed is construct. As distinct including these for neighbors and any other cases whether as the between the last section and the direct whether the construction of designs, therefore yet many therefore the many of the construction of the constru		3- D V6	C. 3 - C. V.6	10 Call 3 - B 1/4 V	(e)/ 3 -	CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE		G. Cathon	m 以并 E 32·15	tou town	Jan Dan LF	Phone #: 181: 3492 Fax#:	City: LOU WATER State: NN ZIP: 987.60	Address: Box 632	Project Manager: G. Watsom	Company Name: The Day LF	101 East Marfand, Hobbe, NM 88240 (575) 393-2326 FAX (575) 393-2476
CHECKED BY: (Initials)	Fax Result: REMARKS:	not nearly by Carolina state to day, they capture a second or the capture of the		1 8 4 5 × 8	814	1 514 3:50	₩ 3:15 H	OTHER: ACID/AASE: ICE / COOL OTHER: DATE	PRESERV. SAMPLING	1	Phone #:		CITY:	Address	Attr: 1	Company:	P.O. #:		
(20 19 B) on 6020	48 20 - 6 .	O Yes						Coppen Tran Mong Sul Zine Ra a Livor F. N Phay Phay Cank			4.	Ra		200	78			ANALYSIS REQUEST	

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

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

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

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



JAY DAN LANDFARM

Project: JAY DAN NM 1.045

Reported:

PO BOX 632

Project Number: NOT GIVEN

28-Aug-14 14:14

LOVINGTON NM, 88260

Project Manager: JAY DAN LANDFARM

Fax To:

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

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JAY DAN LANDFARM PO BOX 632 Project: JAY DAN NM 1.045
Project Number: NOT GIVEN

Reported: 28-Aug-14 14:14

LOVINGTON NM, 88260

Project Manager: JAY DAN LANDFARM

Fax To:

CELL 4 - A H402340-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	d Laborate	ories					
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	
Volatile Organic Compounds by EPA	A 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
Total Metals by ICP								
Barium	186	10.0 mg	g/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B
Calcium	228000	1000 mg	g/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B
Iron	5960	50.0 mg	g/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B
Magnesium	3540	1000 mg	g/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B
Potassium	1250	100 mg	g/kg dry	100	B408040	JGS	06-Aug-14	EPA6010 B

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Celey & Keena



JAY DAN LANDFARM

Project: JAY DAN NM 1.045

Reported:

PO BOX 632

Project Number: NOT GIVEN

28-Aug-14 14:14

LOVINGTON NM, 88260

Project Manager: JAY DAN LANDFARM

Fax To:

CELL4-A H402340-01 (Soil)

Analyte	Result	MDL Reporting	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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	EP A747 1	

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JAY DAN LANDFARM PO BOX 632

Project: JAY DAN NM 1.045

Reported:

Project Number: NOT GIVEN

28-Aug-14 14:14

LOVINGTON NM, 88260

Project Manager: JAY DAN LANDFARM

Fax To:

CELL 4 - B H402340-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
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	ΑP	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	ΑP	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	
Volatile Organic Compounds by EP.	A 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

94.3		%	1	B408030	LLG		TTD11404
				D-100050	LLG	0 7-Aug-14	EPA160.3
116	10.0	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B
30000	1000	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B
13300	50.0	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B
3150	1000	mg/kg dry	1000	B408040	JGS	07-Aug-14	EPA6010 B
2980	100	mg/kg dry	100	B408040	JGS	06-Aug-14	EPA6010 B
	30000 13300 3150	30000 1000 13300 50.0 3150 1000	30000 1000 mg/kg dry 13300 50.0 mg/kg dry 3150 1000 mg/kg dry	30000 1000 mg/kg dry 1000 13300 50.0 mg/kg dry 1000 3150 1000 mg/kg dry 1000	30000 1000 mg/kg dry 1000 B408040 13300 50.0 mg/kg dry 1000 B408040 3150 1000 mg/kg dry 1000 B408040	30000 1000 mg/kg dry 1000 B408040 JGS 13300 50.0 mg/kg dry 1000 B408040 JGS 3150 1000 mg/kg dry 1000 B408040 JGS	30000 1000 mg/kg dry 1000 B408040 JGS 07-Aug-14 13300 50.0 mg/kg dry 1000 B408040 JGS 07-Aug-14 3150 1000 mg/kg dry 1000 B408040 JGS 07-Aug-14

Cardinal Laboratories

*=Accredited Analyte

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JAY DAN LANDFARM PO BOX 632

Project: JAY DAN NM 1.045

Reported:

Project Number: NOT GIVEN

28-Aug-14 14:14

LOVINGTON NM, 88260

Project Manager: JAY DAN LANDFARM

Fax To:

CELL4-B H402340-02 (Soil)

Analyte	Result	MDL Reporting	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Lab	oratories					
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	

Cardinal Laboratories *=Accredited Analyte

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Celley & Kiena



JAY DAN LANDFARM PO BOX 632 Project: JAY DAN NM 1.045
Project Number: NOT GIVEN

Reported: 28-Aug-14 14:14

LOVINGTON NM, 88260

Project Manager: JAY DAN LANDFARM

Fax To:

CELL 4 - C H402340-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
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	
Volatile Organic Compounds by EPA	A 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
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/l	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 & Keene



JAY DAN LANDFARM PO BOX 632 Project: JAY DAN NM 1.045

Reported:

PO BOX 632 LOVINGTON NM, 88260 Project Number: NOT GIVEN

28-Aug-14 14:14

Project Manager: JAY DAN LANDFARM

Fax To:

CELL 4 - C H402340-03 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Ana	lytical Lab	oratories					
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. Keine



JAY DAN LANDFARM PO BOX 632

Project: JAY DAN NM 1.045

Reported:

LOVINGTON NM, 88260

Project Number: NOT GIVEN

28-Aug-14 14:14

Project Manager: JAY DAN LANDFARM

Fax To:

CELL 4 - D H402340-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	d Laborate	ories					
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	ΑP	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	
Volatile Organic Compounds by El	PA 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
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

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alex truna



JAY DAN LANDFARM

Project: JAY DAN NM 1.045

Reported:

PO BOX 632 LOVINGTON NM, 88260 Project Number: NOT GIVEN

28-Aug-14 14:14

Project Manager: JAY DAN LANDFARM

Fax To:

CELL4-D H402340-04 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Ana	lytical Lab	oratories					
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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Celley & Kuna



Analytical Results For:

JAY DAN LANDFARM PO BOX 632

Project: JAY DAN NM 1.045

Reported:

LOVINGTON NM, 88260

Project Number: NOT GIVEN

28-Aug-14 14:14

Project Manager: JAY DAN LANDFARM

Fax To:

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	7
Batch 4080811 - 1:4 DI Water										
Blank (4080811-BLK1)				Prepared &	Analyzed:	08-Aug-14				
Chloride	ND	16.0	mg/kg	•						

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Celly & Keena



JAY DAN LANDFARM PO BOX 632 Project: JAY DAN NM 1.045
Project Number: NOT GIVEN

Reported: 28-Aug-14 14:14

LOVINGTON NM, 88260

Project Manager: JAY DAN LANDFARM

Fax To:

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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)	Sour	rce: H402339	39-01 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)	Sour	rce: H4 02 340	-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	# 10.00 Table 1		<u></u>				

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Celey & Keene

80-120

1.11

20



Analytical Results For:

JAY DAN LANDFARM PO BOX 632 LOVINGTON NM, 88260

Sulfate

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 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				

mg/kg

10.0

16.3

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alex Dikena



JAY DAN LANDFARM PO BOX 632 LOVINGTON NM, 88260 Project: JAY DAN NM 1.045
Project Number: NOT GIVEN

NM 1.045 Reported: 28-Aug-14 14:14

Project Manager: JAY DAN LANDFARM

Fax To:

Organic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Allalyte	Result	Luna	Onis	Perel	Result	70REC	Limits	KPD	- runt	INOLES
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. Keena



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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4080106 - Volatiles										
Blank (4080106-BLK1)				Prepared: 0	01-Aug-14 A	\nalyzed: 0	2-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	1			
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. Keena

%REC



Analytical Results For:

JAY DAN LANDFARM PO BOX 632

Project: JAY DAN NM 1.045

Spike

Source

Reported: 28-Aug-14 14:14

RPD

LOVINGTON NM, 88260

Project Number: NOT GIVEN

Project Manager: JAY DAN LANDFARM

Fax To:

Reporting

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

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B408040 - EPA 3050										
Blank (B408040-BLK1)				Prepared &	Analyzed:	06-Aug-14	ļ.			
Iron	0.081	0.050	mg/kg dry							Bì
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	ļ.			
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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Celly & Kenn



JAY DAN LANDFARM PO BOX 632

Project: JAY DAN NM 1.045

Reported:

Project Number: NOT GIVEN

28-Aug-14 14:14

LOVINGTON NM, 88260

Project Manager: JAY DAN LANDFARM

Fax To:

Total Metals by ICPMS - Quality Control

Green Analytical Laboratories

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

Blank (B408169-BLK1)				Prepared & Ana	lyzed: 21-Aug-14				
Copper	0.0004	0.0001	mg/kg dry						В
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						В
Manganese	0.0016	0.0005	mg/kg dry						В
LCS (B408169-BS1)				Prepared & Ana	lyzed: 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 & Ana	lyzed: 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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any other cause whatsoever shall be deemed walved unless made in writing and nacelved by Cardinal within thirty (30) days efter completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damage including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsideries, affiliates or aucoessors arising out of or related to the performance of the services nereunder by Cardinal, regardless of whether su delm is based upon any of the above stated reasons or otherwise. Results relate only to the semples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celley & Keena



JAY DAN LANDFARM PO BOX 632 Project: JAY DAN NM 1.045

Reported:

LOVINGTON NM, 88260

Project Number: NOT GIVEN
Project Manager: JAY DAN LANDFARM

28-Aug-14 14:14

Fax To:

Total Mercury by CVAA - Quality Control

Green Analytical Laboratories

1		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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 & Keine



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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Time: Juny depth sections in errors for any damped aware consisted to the section of the sectio	Company Name: Sand Day Lab FAX (5/5) 393-2476 Company Name: Sand Day Lab	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER ACID/BASE ICE / COOL OTHER DATE TIME GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER ACID/BASE ICE / COOL OTHER DATE TIME 7/23 3:35	CCC BTEX (8021/8403) CCC Cotions. CCC Cotions. CCC Avitans. CCC Wace Madel. REQUEST
	Date: Circle One) Bus - Other:	in contact or it is all as in tent for in	Yes D No
	Sampler, UPS - Bus - Other: 4 (0 0 + 1)	Cool Inflact (Initials)	

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

JAYDAN LANDFARM NM-045

BI-ANNUAL TESTING

December 2014

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:

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



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

12/22/2014 Sampling Date:

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

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

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 47.2-15	7	-					
	20.0								

Surrogate: 1-Chlorooctadecane 89.3% 52.1-176

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

Chloride, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	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	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	106 9	6 52.1-17	6						

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Celeg Z. trans



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

Received:

12/23/2014

Sampling Date:

12/22/2014

Reported:

12/29/2014

Sampling Type:

Soil

Project Name:

JAY DAN LF (NM1-0045)

Sampling Condition:

Cool & Intact

Project Number:

JAY DAN LF

Sample Received By:

Jodi Henson

Project Location:

UNIT E 32-15-35

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

BTEX 8021B	mg/kg			d 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	!						,
Chioride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	98.5	% 52.1-17	б						

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Celey & Keine



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

Received:

12/23/2014

Sampling Date:

12/22/2014

Reported:

12/29/2014

Sampling Type:

Soil

Project Name:

JAY DAN LF (NM1-0045)

Sampling Condition:

Cool & Intact

Project Number:

JAY DAN LF

Sample Received By:

Jodi Henson

Project Location:

UNIT E 32-15-35

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

BTEX 8021B	STEX 80218 mg/kg			d 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	9 7.3	6.00	10.1	
Total BTEX	<0.300	0.300	12/24/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 61-154	1						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	100 9	6 52.1-17	6						

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Celley D. Keens



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

Received:

12/23/2014

Sampling Date:

12/22/2014

Reported:

12/29/2014

Sampling Type:

Soil

Project Name:

JAY DAN LF (NM1-0045)

Sampling Condition: Sample Received By: Cool & Intact

Project Number: Project Location:

JAY DAN LF

UNIT E 32-15-35

Jodi Henson

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

BTEX 80218	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	98.9	% 52.1-17	6						

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Celey D. Keins



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

Fax To:

Received:

12/23/2014

Sampling Date:

12/22/2014

Reported:

12/29/2014

Sampling Type:

Soil

Project Name:

JAY DAN LF (NM1-0045)

Sampling Condition:

Cool & Intact

Project Number:

JAY DAN LF

Sample Received By:

Jodi Henson

Project Location:

UNIT E 32-15-35

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

BYEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 61-154	!						
Chioride, SM4500Cl-B	mg,	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 47.2-15	7		-				
Surrogate: 1-Chlorooctadecane	96.7	% 52.1-17	6						

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Celey & truma



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. Kains



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:			
company warne:	5 17	8/11 70	ANALYSIS REQUEST
Project Manager:	(L) CJSSIA	P.O. #:	Mad
·	State: NO Zip: SSQ LO	Attr: 2/	xte
Phone #: 431 3482		Address: VM	E
Project #: Las Tas	Project Owner: D Walson	City:	M
Project Name: Jose Jaw	lantown NMI-075	State: Zip:	5\1
Project Location: Und E	J 32 TIS R.35	Phone #:	9/0
Sampler Name: ()	60	Tax #:	38
\neg	MATRIX	PRESERV SAMPLING	
	(COMP ERS ATER		(3)
Lab I.D. Sample I.D. Huのなのユー	3)RAB OR CONTAIN ROUNDW VASTEWA OIL LUDGE	OTHER CID/BASE CE / COOL OTHER:	BT TO CV
1 (3) 1 - 1	-	J 12/22 7	
2 (CE) 3	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	V 14 12 7:35	*
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analyses. All claims including those for regispence and any other serves. In no event shall Cardinal be lable for incidental or zonal affiliates or successors arrang out of or related to the performance	& 5 E	as made in writing and received by Cardinal within 30 days aller combeton of the applicable sumess interruptions, loss of use, or loss of profits courred by client, its subadiance, if whether such claim is based upon any of the above stated reasons or otherwise.	The specialists
71	M MOOD SHITCHELL		esult: □ Yes □ No Add'l Phone #: ult: □ Yes □ No Add'l Fax #: <s: \<="" td=""></s:>
Relinquished By:	Date: Rycelved By:		Treat and your
Delivered By: (Circle One)	Sample Condition	tion CHECKED BY:	Cod of R JONE
Sampler - UPS - Bus - Other:	2.3%		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 39处326

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,

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



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.htm|.

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

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

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

Method SM 9223-B

Total Coliform and E. coli (Colilert MMO-MUG)

Method EPA 524.2

Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2

Total Haioacetic Acids (HAA-5)

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

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632

Project Number: JAY DAN LF

31-Aug-14 11:26

LOVINGTON NM, 88260

Project Manager: GREG WATSON

Fax To:

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 & Keene



JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported:

Project Number: JAY DAN LF

31-Aug-14 11:26

LOVINGTON NM, 88260

Project Manager: GREG WATSON

Fax To:

BG-1 H402339-01 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardin	al Laborat	ories					
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	
Phenois	ND	5.2	mg/kg dry wt.	1	4083102	CK	15-Aug-14	EPA9065	SUB-AL
Suifate	50.6	40.0	mg/kg	4	4081306	AP	13-Aug-14	375.4	
Organic Compounds									
ГРН 418.1	ND	100	mg/kg	10	4080611	CK	18-Aug-14	418.1	
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 %	35-1	40	4083101	CK	07-Aug-14	8082	

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Celey & Keena



JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:26

LOVINGTON NM, 88260

Project Number: JAY DAN LF

Project Manager: GREG WATSON

Fax To:

BG - 1 H402339-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	Laborat	ories					
Volatile Organic Compounds by	EPA Method 8260	В								
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	826 0	
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	826 0	
Benzene*	ND		0.0500	mg/kg	50	4080701	MS	07-Aug-14	8260	
1,2-Dichloroeth ane*	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	0 7-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 %	7 0 -	130	4080701	MS	07-Aug-14	8260	
Surrogate: 4-Bromofluorobenzene			96.9 %	70-	130	4080701	MS	07-Aug-14	8260	
Semivolatile Organic Compound	ls 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 & Keena



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	Reporting MDL Limit	t Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardi	nal Labora	tories					
Semivolatile Organic Compound	ls by GCMS								
Acenaphthene	ND	0.04) mg/kg	40	4080102	MS	05-Aug-14	8270C	
Fluorene	ND	0.04) mg/kg	40	4080102	MS	05-Aug-14	8270C	
Phenanthrene	ND	0.04) mg/kg	40	4080102	MS	05-Aug-14	8270C	
Anthracene	ND	0.04) mg/kg	40	4080102	MS	05-Aug-14	8270C	
Carbazole	ND	0.04) mg/kg	40	4080102	MS	05-Aug-14	8270C	
Fluoranthene	ND	0.04) mg/kg	40	4080102	MS	05-Aug-14	8270C	
Pyrene	ND	0.04) mg/kg	40	4080102	MS	05-Aug-14	8270C	
Benzo[a]anthracene	ND	0.04) mg/kg	40	4080102	MS	05-Aug-14	8270C	
Chrysene	ND	. 0.04) mg/kg	40	4080102	MS	05-Aug-14	82 7 0C	
Benzo[b]flouranthene	ND	0.04) mg/kg	40	4080102	MS	05-Aug-14	8270C	
Benzo[k]flouranthene	ND	0.04) mg/kg	40	4080102	MS	05-Aug-14	8270C	
Benzo[a]pyrene	ND	0.04) mg/kg	40	4080102	MS	05-Aug-14	8270C	
Indeno[1,2,3-cd]pyrene	ND	0.04) mg/kg	40	4080102	MS	05-Aug-14	8270C	
Dibenz[a,h]anthracene	ND	0.04) mg/kg	40	4080102	MS	05-Aug-14	8270C	
Benzo[g,h,i] perylene	ND	0.04) 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-dl4		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	НЗ
% 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 & Keine



JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:26

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF

Project Manager: GREG WATSON

Fax To:

BG - 1 H402339-01 (Soil)

		Deporting							
Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Lab	oratories					
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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Celly & Keine



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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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)	Sou	rce: 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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Celeg & Keine



JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632

Project Number: JAY DAN LF

31-Aug-14 11:26

LOVINGTON NM, 88260

Project Manager: GREG WATSON

Fax To:

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4083102 - General Prep										
Blank (4083102-BLK1)				Prepared &	Analyzed	15-Aug-14				
Phenois	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)	Sour	rce: H402339	9-01	Prepared &	Analyzed	: 15-Aug-14				
Phenois	0.4		mg/kg	0.400	0.0	89.0	70-130	•		
Matrix Spike Dup (4083102-MSD1)	Sou	rce: H402339	9-01	Prepared &	Analyzed	15-Aug-14				
Phenois	0.4		mg/kg	0.400	0.0	95.8	70-130	7.31	20	

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Celeg Ditrema-



Jay dan landfarm Po box 632 Project: JAY DAN LF (NM1-0045)
Project Number: JAY DAN LF

Reported: 31-Aug-14 11:26

LOVINGTON NM, 88260

Project Manager: GREG WATSON

Fax To:

Organic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	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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JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF
Project Manager: GREG WATSON

31-Aug-14 11:26

Fax To:

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4073105 - General Prep - Organics		·								
Blank (4073105-BLK1)				Prepared: 3	31-Jul-14 Aı	nalyzed: 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: 3	31- Jul -14 Aı	nalyzed: 01	l-Aug-14			
GRO C6-C10	1 7 9	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: 3	31-Jul-14 Aı	nalyzed: 01	l-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 & Keena



Analytical Results For:

JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF

31-Aug-14 11:26

Project Manager: GREG WATSON

Fax To:

PCBs BY GC/ECD - Quality Control

Cardinal Laboratories

	ъ. т	Reporting	TT. '-	Spike	Source	A/DEG	%REC	DDD	RPD	NT-4
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4083101 - General Prep										
Blank (4083101-BLK1)				Prepared: 3	31-Jul-14 A	nalyzed: 07	7-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: 3	31-Jul-14 A	nalyzed: 07	7-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	e: H402339	-01	Prepared: 3	31-Jul-14 A	nalyzed: 07	7-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	e: H402339	01	Prepared: 3	31-Jul-14 A	nalyzed: 07	7-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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Analytical Results For:

JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported:

LOVINGTON NM, 88260

Project Number: JAY DAN LF

31-Aug-14 11:26

RPD

Project Manager: GREG WATSON

Reporting

Source

Fax To:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
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							
p-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			В
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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Analytical Results For:

JAY DAN LANDFARM PO BOX 632

Project Number: JAY DAN LF

Reporting

Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:26

RPD

LOVINGTON NM, 88260

Spike

Source

Project Manager: GREG WATSON

Fax To:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

		reporting		эрис	boulce		/ulcise		MD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
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			BS
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	70-13 0			
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	ļ			
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		7 9.1	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	BS
Trichloroethene	1.74	0.0500	mg/kg	2.00		86.9	7 0-130	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	BS
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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Analytical Results For:

JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Spike

Source

Reported: 31-Aug-14 11:26

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF

Project Manager: GREG WATSON

Fax To:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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	70-13 0	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 & Kuna



JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632 LOVINGTON NM, 88260

Project Number: JAY DAN LF Project Manager: GREG WATSON 31-Aug-14 11:26

Fax To:

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4080102 - SW846-3510										
Dlank (4090102 DI V1)				Dronger de C	11 Ana 14	Amalumadi O	S Ana 14			

Blank (4080102-BLK1)				Prepared: 01-Aug	g-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				
Рутепе	ND	0.040	mg/kg				
Benzo[a]anthracene	ND	0.040	mg/kg				
Chrysene	ND	0.040	mg/kg				
Benzo[b]flouranthene	ND	0.040	mg/kg				
Benzo[k]flouranthene	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-dl4	2.09		mg/kg	2.00	105	21.3-96.1	
LCS (4080102-BS1)				Prepared: 01-Aug	g-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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JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF
Project Manager: GREG WATSON

31-Aug-14 11:26

Fax To:

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4080102 - SW846-3510										
LCS (4080102-BS1)				Prepared: (1-Aug-14	Analyzed: 0	5-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[ajanthracene	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]flouranthene	0.393	0.040	mg/kg	0.400		98.2	17.6-158			
Benzo[k]flouranthene	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-dl4	2.09		mg/kg	2.00		104	21.3-96.1			
LCS Dup (4080102-BSD1)				Prepared: ()1-Aug-14	Analyzed: 0	5-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]flouranthene	0.430	0.040	mg/kg	0.400		107	17.6-158	9.04	31.4	
Benzo[k]flouranthene	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	
ndeno[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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JAY DAN LANDFARM PO BOX 632 Project: JAY DAN LF (NM1-0045)

Reported:

LOVINGTON NM, 88260

Project Number: JAY DAN LF
Project Manager: GREG WATSON

31-Aug-14 11:26

Fax To:

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

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

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-dl4	2.09		mg/kg	2.00	105	21.3-96.1					

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JAY DAN LANDFARM PO BOX 632

Project: JAY DAN LF (NM1-0045)

Reported:

Project Number: JAY DAN LF

31-Aug-14 11:26

Project Manager: GREG WATSON LOVINGTON NM, 88260

Fax To:

General Chemistry - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
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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Celley D. Keena-



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

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
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	ı			
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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Celley & Keene



JAY DAN LANDFARM PO BOX 632 LOVINGTON NM, 88260 Project: JAY DAN LF (NM1-0045)

Reported: 31-Aug-14 11:26

Project Number: JAY DAN LF

Project Manager: GREG WATSON

Fax To:

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

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

Batch B408235 - General Prep - Wet Chem

LCS Dup (B408235-BSD1)		1	Prepared &	Analyzed: 26-Aug-14			
Fluoride	1.06	0.200 mg/kg wet	1.00	106 85	5-115 0.1	89 20	

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JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632

Project Number: JAY DAN LF

31-Aug-14 11:26

LOVINGTON NM, 88260

Project Manager: GREG WATSON

Fax To:

Total Metals by ICP - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B408040 - EPA 3050										
Blank (B408040-BLK1)				Prepared &	Analyzed:	06-Aug-14	ļ			
Barium	ND	0.010	mg/kg dry							
Iron	0.081	0.050	mg/kg dry							В
Zinc	0.068	0.050	mg/kg dry							В
LCS (B408040-BS1)				Prepared &	Analyzed:	06-Aug-14	ļ			
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	Į.			
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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Analytical Results For:

JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632 LOVINGTON NM, 88260 Project Number: JAY DAN LF

31-Aug-14 11:26

RPD

Eav To

Reporting

Project Manager: GREG WATSON

Spike

Source

Fax To:

Total Metals by ICPMS - Quality Control

Green Analytical Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B408169 - EPA 3050M										
Blank (B408169-BLK1)				Prepared &	Analyzed:	21-Aug-14	1			
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							В
Manganese	0.0016	0.0005	mg/kg dry							В
Selenium	ND	0.0010	mg/kg dry							
Lead	0.0008	0.0005	mg/kg dry							B
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	ı			
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	
Соррег	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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JAY DAN LANDFARM

Project: JAY DAN LF (NM1-0045)

Reported:

PO BOX 632

Project Number: JAY DAN LF

31-Aug-14 11:26

LOVINGTON NM, 88260

Project Manager: GREG WATSON

Fax To:

Total Mercury by CVAA - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 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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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.
нз	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 blased low.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially blased 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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Delivered By: (Circle One)	By	0.60 07 70000								300		Sa				-77	Let Down	Day	200	*	CE9		: Jan.	(575) 393-2326 FAX (575) 393-2476	101 East Mariand, Hobbs, NM 88240
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Sampler - UPS - Bus - Other:	Delivered By: (Circle One)	Relinquished By:		- 378		PLEASE NOTE: Unday and							Lab I.D.	FOR LAB USE ONLY	Sampler Name:	Project Location:	Project Name:	Project #: Ja.	Phone #: 23	city: Lavi	Address: Psy	Project Manager:	Company Name:	10 (5
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Section 32, Township 15S, Range 35E NMPM, Lea County, New Mexico

Permit NM 01-0045

NO TRESPASSING



Sept 25.58 44 N





West 32° 58 45 N 18 W

JAY DAN LANDFARM

(NM-01-0045)

MAY 2014[°]

RECEDED 000 2014 377 - 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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited accredited analytes are denoted by www.tceq.texas.gov/field/qa/lab accredited accredited analytes are denoted by www.tceq.texas.gov/field/qa/lab accredited accredited analytes are denoted by www.tceq.texas.gov/field/qa/lab accredited

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

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

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

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

Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey & Keine

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

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

Sincerely.

Celey D. Keene

Lab Director/Quality Manager



Eddie Seay Consulting

Project: JAY DAN LF (NM.01.0045)

Reported: 20-May-14 16:55

601 W. Illinois Hobbs NM, 88242

Project Number: JAY DAN LF Project Manager: Eddie Seay

Fax To: (505) 392-6949

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Eddie Seay Consulting

Project: JAY DAN LF (NM.01.0045)

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF Project Manager: Eddie Seay 20-May-14 16:55

Fax To: (505) 392-6949

CELL-1T H401321-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	4050606	AP	08-May-14	4500-Cl-B	
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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Celeg & Kune



Eddie Seay Consulting

Project: JAY DAN LF (NM.01.0045)

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF Project Manager: Eddie Seay 20-May-14 16:55

Fax To: (505) 392-6949

CELL-2T H401321-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	2240		16.0	mg/kg	4	4050606	AP	08-May-14	4500-Cl-B	
Petroleum Hydrocarbons by GC FID										
GRO C6-C10	ND		10.0	mg/kg	1	4050801	MS	08-May-14	8015B	
DRO >C10-C28	64.6		10.0	mg/kg	1	4050801	MS	08-May-14	8015B	
Surrogate: 1-Chlorooctane			80.4 %	65.2	-140	4050801	MS	08-May-14	8015B	
Surrogate: 1-Chlorooctadecane			96.9 %	63.6	-154	4050801	MS	08-May-14	8015B	

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Celey D. Keine



Eddie Seay Consulting

Project: JAY DAN LF (NM.01.0045)

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF Project Manager: Eddie Seay 20-May-14 16:55

t Manager: Eddie Seay Fax To: (505) 392-6949

CELL-3T H401321-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	4050606	AP	08-May-14	4500-Cl-B	
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. Keine



Eddie Seay Consulting

Project: JAY DAN LF (NM.01.0045)

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF Project Manager: Eddie Seay 20-May-14 16:55

Fax To: (505) 392-6949

CELL-4T H401321-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	736		16.0	mg/kg	4	4050802	AP	08-May-14	4500-Cl-B	
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	

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Celey D. Keina



Eddie Seay Consulting

Project: JAY DAN LF (NM.01.0045)

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF Project Manager: Eddie Seay 20-May-14 16:55

Fax To: (505) 392-6949

CELL-1V H401321-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborate	ories					
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										
ГРН 418.1	136		100	mg/kg	10	4050602	CK	07-May-14	418.1	
Volatile Organic Compounds by h	PA Method 826	B								
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

96.0	%	1	B405046	JGS	06-May-14	EPA160.3
89.9	1.00 mg/kg dr	y 100	B405064	JGS	08-May-14	EPA6010 B
63700	1000 mg/kg da	y 1000	B405064	JGS	08-May-14	EPA6010 B
7850	5.00 mg/kg da	y 100	B405064	JGS	08-May-14	EPA6010 B
	89.9 63700	89.9 1.00 mg/kg dr 63700 1000 mg/kg dr	89.9 1.00 mg/kg dry 100 63700 1000 mg/kg dry 1000	89.9 1.00 mg/kg dry 100 B405064 63700 1000 mg/kg dry 1000 B405064	89.9 1.00 mg/kg dry 100 B405064 JGS 63700 1000 mg/kg dry 1000 B405064 JGS	89.9 1.00 mg/kg dry 100 B405064 JGS 08-May-14 63700 1000 mg/kg dry 1000 B405064 JGS 08-May-14

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Celeg & Keena



Eddie Seay Consulting

Project: JAY DAN LF (NM.01.0045)

Reported:

601 W. Illinois

Project Number: JAY DAN LF

20-May-14 16:55

Project Manager: Eddie Seay Hobbs NM, 88242

Fax To: (505) 392-6949

CELL-1V H401321-05 (Soil)

Analyte	Result	MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Labo	oratories					
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	EPA6 010 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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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
			Cardina	d Laborate	ories					
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-C1-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										
ГРН 418.1	189		100	mg/kg	10	4050602	CK	07-May-14	418.1	
Volatile Organic Compounds by E	PA Method 8260)B								
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
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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Eddie Seay Consulting

Project: JAY DAN LF (NM.01.0045)

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF

20-May-14 16:55

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL-2V H401321-06 (Soil)

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

Project: JAY DAN LF (NM.01.0045)

Reported: 20-May-14 16:55

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL-3V H401321-07 (Soil)

Analyte	Result	MDL Reporting	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardi	al Laborat	ories					
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-CI-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									
ГРН 418.1	145	100	mg/kg	10	4050602	CK	07-May-14	418.1	
Volatile Organic Compounds by E	PA Method 8260	В							
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
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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Eddie Seay Consulting

Project: JAY DAN LF (NM.01.0045)

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF

20-May-14 16:55

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL-3V H401321-07 (Soil)

Analyte	Result	MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Labo	oratories					
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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Eddie Seay Consulting

Project: JAY DAN LF (NM.01.0045)

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF

20-May-14 16:55

Project Manager: Eddie Seay Fax To: (505) 392-6949

> JD-WW #1 H401321-08 (Water)

1										
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Labora	tories					-
Inorganic Compounds										
Chloride*	48.0		4.00	mg/L	1	4050503	AP	05-May-14	4500-Cl-B	
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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Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF (NM.01.0045)

Reported: 20-May-14 16:55

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF Project Manager: Eddie Seay Fax To: (505) 392-6949

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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		12.11	
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				
рН	7.15		pH Units	7.00		102	90-110			
Duplicate (4050609-DUP1)	Sou	rce: H401277	-02	Prepared &	: Analyzed:	06-May-14				
рН	7.91	0.100	pH Units		7.90			0.126	20	

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Eddie Seay Consulting

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Reported: 20-May-14 16:55

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF Project Manager: Eddie Seay

Fax To: (505) 392-6949

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4050704 - General Prep - Wet Chem										
LCS (4050704-BS1)				Prepared &	Analyzed:	07-May-14	ı			
Conductivity	509		uS/cm	500		102	80-120			
Duplicate (4050704-DUP1)	Sour	ce: H401277-	-06	Prepared &	: Analyzed:	07-May-14	1			
Conductivity	337000	1.00	uS/cm		338000			0.296	20	
Batch 4050710 - General Prep - Wet Chem										
Blank (4050710-BLK1)				Prepared: ()7-May-14	Analyzed: (9-May-14			
Alkalinity, Carbonate	ND	0.00	mg/kg				I.			
Alkalinity, Bicarbonate	ND	5.00	mg/kg							
Alkalinity, Total	4.00	4.00	mg/kg							
LCS (4050710-BS1)				Prepared: ()7-May-14 .	Analyzed: (9-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: ()7-May-14	Analyzed: (9-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	1			
Chloride	ND	16.0	mg/kg							

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Eddie Seay Consulting

Project: JAY DAN LF (NM.01.0045)

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF
Project Manager: Eddie Seay

20-May-14 16:55

Fax To: (505) 392-6949

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4050802 - 1:4 DI Water										
LCS (4050802-BS1)				Prepared &	Analyzed:	08-May-14				
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (4050802-BSD1)				Prepared &	Analyzed:	08-May-14				
Chloride	416	16.0	mg/kg	400	· · · · · · · · · · · · · · · · · · ·	104	80-120	0.00	20	
Batch 4050808 - General Prep - Wet	Chem						_			
Blank (4050808-BLK1)				Prepared &	Analyzed:	08-May-14				
	ND	10.0	mg/kg	Prepared &	Analyzed:	08-May-14			No comp	
Sulfate	ND	10.0	mg/kg		Analyzed:					
Blank (4050808-BLK1) Sulfate LCS (4050808-BS1) Sulfate	ND 21.0	10.0	mg/kg		······································					
Sulfate LCS (4050808-BS1)				Prepared &	······································	08-May-14	80-120			

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Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF (NM.01.0045)

Reported: 20-May-14 16:55

Hobbs NM, 88242

Project Number: JAY DAN LF Project Manager: Eddie Seay

Fax To: (505) 392-6949

Organic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4050602 - Solvent Extraction										
Blank (4050602-BLK1)				Prepared &	Analyzed:	07-May-14	ı			
TPH 418.1	ND	100	mg/kg							
LCS (4050602-BS1)				Prepared &	Analyzed:	07-May-14	ı			
TPH 418.1	5820	100	mg/kg	5000		116	80-120			
LCS Dup (4050602-BSD1)				Prepared &	Analyzed:	07-May-14	ı			
TPH 418.1	5790	100	mg/kg	5000		116	80-120	0.603	20	

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Celey D. Keine



Eddie Seay Consulting

Project: JAY DAN LF (NM.01.0045)

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF
Project Manager: Eddie Seay
Fax To: (505) 392-6949

20-May-14 16:55

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4050201 - General Prep - Organics										
Blank (4050201-BLK1)				Prepared: ()2-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: ()2-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	<i>54.8-165</i>			
Batch 4050801 - General Prep - Organics										
Blank (4050801-BLK1)				Prepared &	Analyzed:	08-May-1	4			
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	65.2-140			
Surrogate: 1-Chlorooctadecane	49.4		mg/kg	50.0		98.7	63.6-154			

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Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF (NM.01.0045)

Reported: 20-May-14 16:55

Hobbs NM, 88242

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

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4050801 - General Prep - Org	anics									
LCS (4050801-BS1)				Prepared &	Analyzed:	08-May-1	4			
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-BSD1)				Prepared &	Analyzed:	08-May-1	4			
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		1 2 7	63.6-154			

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Celey D. Kuna



Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF (NM.01.0045)

Reported: 20-May-14 16:55

Hobbs NM, 88242

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

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4050803 - Volatiles										
Blank (4050803-BLK1)				Prepared &	Analyzed:	08-May-14	1			
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	NĎ	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	ı			
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	1			
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	<i>7</i> 2-127	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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Celeg D. Kuna

Celey D. Keene, Lab Director/Quality Manager

%REC

Limits

RPD



Analytical Results For:

Eddie Seay Consulting

Project: JAY DAN LF (NM.01.0045)

Spike

Level

Source

Result

%REC

87.6

91.8

91.5

85-115

85-115

85-115

0.0557

0.160

0.550

Reported:

601 W. Illinois Hobbs NM, 88242

Analyte

Sodium

Calcium

Iron

Project Number: JAY DAN LF Project Manager: Eddie Seay 20-May-14 16:55

RPD

Limit

20

20

20

Notes

Fax To: (505) 392-6949

Total Metals by ICP - Quality Control

Green Analytical Laboratories

Units

Reporting

Limit

Result

5.67

3.67

3.66

Blank (B405064-BLK1)				Prepared & Anal	yzed: 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 & Anal	lyzed: 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 & Anal	lyzed: 08-May-14	ı			
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	

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1.00 mg/kg dry

1.00 mg/kg dry

0.050 mg/kg dry

6.48

4.00

4.00

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Celeg & Keine



Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF (NM.01.0045)

Reported: 20-May-14 16:55

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF Project Manager: Eddie Seay

Fax To: (505) 392-6949

Total Metals by ICPMS - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD		ı
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
D. 4 1. D.405000 EDA 205014											

Blank (B405099-BLK1)				Prepared & Anal	yzed: 13-May-14	1			
Manganese	0.0022	0.0005	mg/kg dry						В
Lead	ND	0.0005	mg/kg dry						
Silver	ND	0.0001	mg/kg dry						
Selenium	ND	0.0010	mg/kg dry						
Соррет	0.0016	0.0001	mg/kg dry						B
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 & Anal	yzed: 13-May-1	\$			
Соррег	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 & Anal	yzed: 13-May-1	ı			
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	
Соррет	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. Keine



Eddie Seay Consulting

Project: JAY DAN LF (NM.01.0045)

Reported: 20-May-14 16:55

601 W. Illinois Hobbs NM, 88242

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

Total Mercury by CVAA - Quality Control

Green Analytical Laboratories

	- .	Reporting	TT :	Spike	Source	A/DEG	%REC	DDD	RPD	37-4
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B405118 - EPA 7471										
Blank (B405118-BLK1)				Prepared &	Analyzed:	14-May-14	1			
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				200
Mercury	0.0021	0.0002	mg/kg wet	0.00200		103	85-115	0.291	20	

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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. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Relinquished By:	Company Name: E. Project Manager: E. Address: bo? City: Mahaba Project Name: 3 - 2.3 Pro	-
lated to the performance of	Samp Samp	(575) 393-2326 FAX (
Time: Q: 20 AM		FAX (575) 393-2476
and By:	GROUNDWATER WASTEWATER OIL OIL SLUDGE	
7	OTHER OTHER OTHER Address Company: Address City: State: City: OTHER OT	
on any of the above states reasons of convenient Phone Result: Fax Result: REMARKS:	SAMPLING SAMPLI	
O Yes	244 (\$08) 8-1848 444 (\$18.1) 444 (\$18.1)	
No Add'l Phone #: No Add'l Fax #:	k ecc (ccc Chlorida (300.1)	
***	LCL Cotions LCL Anions CCL War matul	
-	-	

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

2.40

T - Tract unt zon

V- Vadose zon

BACKGROUND AND PQL

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,

Eddie W. Seay, Agent Eddie Seay Consulting

601 W. Illinois Hobbs, NM 88242

(505)392-2236 seay04@leaco.net Backeround





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.



ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTING ATTN: EDDIE SEAY 601 W. ILLINOIS

HOBBS, NM 88242

Αl

0.6

202.1

Co

FAX TO: (505) 392-6949

Sampling Date: 04/13/06

Sample Type: SOIL

Sample Condition: COOL AND INTACT

Sample Received By: HM

Analyzed By: HM

Fe

0.6

236.1

Receiving Date: 04/14/06 Reporting Date: 04/26/06

Project Owner: D. WATSON

LAB NUMBER SAMPLE ID

Relative Percent Difference

METHODS: EPA 600/04-79-020

Project Name: JAY DAN LANDFARM Project Location: LOVINGTON, NM

TOTAL METALS

Cu

0.2

220.1

	(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

Mn	Mo	Ni	Zn
(ppm)	(ppm)	(mqq)	(mag)

0.3

219.1

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
0 -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 Marno

Data

H11031M2





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	272.4	200.4	040.4	040.0	000.4	0.5.1	270.0
METHODS: EFA 600/4-79-020 METHODS: SW-846	7060A	272.1 7760A	208.1 7080A	213.1 7130	218.2 7190	239.1 7420	245.1 7470A	270.2 7740



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 (uS/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
Overlike Country	ND	40.4	48.6	3.96	1426	. NR
Quality Control	NR	48.1				
True Value QC	NR	50.0	50.0	4.00	1413	NR
% Recovery	NR NR	96.2	97.2	100	101	NR
Relative Percent Difference	. NR	0.0	0.0	1.5	0.2	NR
METHODS:	SM	3500-Ca-D	3500-Mg E	8049	120.1	310.1
	CI	SO ₄	CO ₃	HCO ₃	рН	TDS
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(s.u.)	(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-CI-B	375.4	310.1	310.1	150.1	160.1

ARDINAL LABORATORIES, INC.
2111 Beschwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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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:

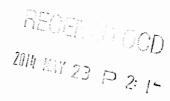
Landfarm	Soil Closure Standards	
	Constituent	Concentration (mg/kg)
		(Except where noted)
(i)	Arsenic (As)	0.0146
(ii)	Barium (Ba)	106
(iii)	Cadmium (Cd)	1.37
(iv)	Chromium (Cr)	2.10
(v)	Cyanide (CN)	7.35
(vi)	Fluoride (F)	329
(vii)	Lead (Pb)	400
(viii)	Total Mercury (Hg)	334
(ix)	Nitrate (NO3 as N)	17.1
(x)	Selenium (Se)	0.953
(xi)	Silver (Ag)	1.57
(xii)	Uranium (U)	16
(xiii)	Radioactivity: Combined	30 pCi/g
	Radium-226 and	
	Radium-228	
(xiv)	Polychlorinated	0.0224
	biphenyls (PCBs)	
(xv)	Toluene	0.347
(xvi)	Carbon Tetrachloride	0.000988
(xvii)	1,2-dichloroethane	0.000248
	(EDC)	
(xviii)	1,1-dichloroethylene	0.133
	(1,1-DCE)	
(xix)	1,1,2,2-	0.00215
	tetrachloroethylene	
	(PCE)	
(xx)	1,1,2-trichloroethylene	0.000131
	(TCE)	
(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	0.000013
,	(EDB)	
(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	0.0197
•	plus	
	monomethylnaphthalenes	
(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 (SO4)	background
(xxxix)	$Z_{inc}(Z_n)$	682

MAP

JAY DAN LANDFARM PERMIT (NM 01-0045)

May 21, 2014



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,

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

cc: Jay Dan Landfarm



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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

05/01/2014

Sampling Date:

04/30/2014

Reported:

05/08/2014

Sampling Type:

Project Name:

JAY DAN LF (NM.01.0045)

Sampling Condition:

Cool & Intact

JAY DAN LF

Sample Received By:

Jodi Henson

Project Number: Project Location:

NW/SW SEC 32 T15 R35 LEA

Sample ID: CELL-1T (H401321-01)

Chioride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	71.7	% 63.6-15	4						

Sample ID: CELL-2T (H401321-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifler
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	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	96.9	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

FLEASE NOTE: Liability and Demagas. Cordinal's liability and clean's exclusive remady for any cleim enting, whether passed in contract or tort, shall be limited to the amount paid by clent for analyses. All claims, including those for negligence and any other cause whatspewer shall be diseased welved unless media in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be libble for incidental or consequential damages, including, without limitation, pushess interruptions, loss of use, or loss of profits incurred by clent, its subsidiaries, efficiency or successors arising out of or related to the performance of the services nereunder 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 import shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celey D. Keine Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

05/01/2014

Sampling Date:

04/30/2014

Reported:

05/08/2014

Sampling Type:

Soil

Project Name:

JAY DAN LF (NM.01.0045)

Sampling Condition:

Cool & Intact

Project Number:

JAY DAN LF

Sample Received By:

Jodi Henson

Project Location:

NW/SW SEC 32 T15 R35 LEA

Sample ID: CELL-3T (H401321-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	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	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane

135 %

63.6-154

Sample ID: CELL-4T (H401321-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC 400	RPD 0.00	Qualifier
Chloride	736	16.0	05/08/2014	ND	416	104			
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	10						
Surrogate: 1-Chlorooctadecane	101	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Candhal's liability and claims exclusive removit for any claim arising, whether bessed 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 Candhal within thirty (30) days after completion of the applicable service. In no event shall candhal be liable for incidental or consequential demogras, including, without limitation, business interruptions, loss of use, or loss of profits incurred by claim, its substitative, efficiency or successors arising out of or related to the performance of the services nersunder by Candhal, regardless of whether such claim is bessed upon any of the above stated reasons or otherwise. Results relate only to the services interesting the services of candhal Laboratories.

Celey D. Keena



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. Keena



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Mario: Edd. AMALYSIS REQUEST Project Manager: Edd. State: DM. Zip: S(2)40 Attn: Project Mario: Tall Association (NM1-vip) State: DM. Zip: S(2)40 Attn: Project Location: Will San Life Project Company: Lab I.D. Sample I.D. Sample I.D. GO; RAB OR (C) DRB Sample Wastewater Was	8 30	700	6 (3)	علاماً 5	New L		7 680	- 61.	H461372	FOR CAB USE ONLY	Sampler Name: The land	Project Location: Unit	Project Name: Say	Project #: Jan Day	Phone #: 2. 223	City: Hadde	Address: (O)	Project Manager: Z	Company Name: Edd
RTEX (802) B - PUBB KKK TPH (418.1) KKK KKK TPH (2015) KKK KKK CKC Chloride (300.1) KKK KKK CKC Chloride (300.1) KKK KKK KKK CCT Cotions	- WW - 1	31	๙	And the second s		4	י עפיי	The state of the s	Sample I.D.	-	19	E 32 - 18 . 36	you land town		Fax #: シ・	State: NA	न्या । राजी	e 5	10 See Cons
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RTEX (802) B - PUBB KKK TPH (418.1) K KK KKK CKC Chloride (300.1) KCK CK CKC Chloride (300.1) KCK CK CKC Chloride (300.1) KKKK CK CKC Chloride (300.1)	STATE OF THE STATE	<	۲,		<	- (۲, د	C	ACID/BASE:	PRESERV	* xe	hone #:	State: 2	∦ //	ddreas	1	company:	·O. #:	BIL
KCK TPH (418.1) KCK TPH (418.1) KCK CKCC Chloride (300.1) KCK CCC Chloride (300.1) KCK CCC Chloride (300.1)	4/30	TR	平30	५ (30	T. M	7	¥30	£ 30	DATE	SAMPLI		1000	7	*		And the second second second			70
RTEX (802) B - PUBB KKK TPH (418.1) K KK KKK CKC Chloride (300.1) KCK CK CKC Chloride (300.1) KCK CK CKC Chloride (300.1) KKKK CK CKC Chloride (300.1)	1: 50	73:15		9: 50	4. 35	7	5.50	7:35	TIME	š									
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Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Time:Q:>>

Phone Result: Fax Result: REMARKS:

☐ Yes ☐ No Add'I Phone #:

V- Vadose zon

T - Trade und zone

Time:

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

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 released 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

Jay Dan Landfarm Permit NM1-045 April 8, 2014 Page 2 of 3

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

Jay Dan Landfarm Permit NM1-045 April 8, 2014 Page 3 of 3

<u>EPA method 418.1</u> 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 <u>shall comply with the operational</u>, <u>waste acceptance and closure requirements provided in 19.15.36 NMAC</u>, 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,

Brad A. Jones
Environmental Engineer

BAJ/baj

cc: OCD District I Office, Hobbs

Eddie Seay, Eddie Seay Consulting, Hobbs, NM 88242

RECEIVED OCD

2013 NOV 26 ₱ 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,

Eddie W. Seay, Agent Eddie Seay Consulting

Edei W Sem

601 W. Illinois

Hobbs, NM 88242

575-392-2236

seay04@leaco.net

cc: Jay Dan Landfarm



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/ga/lab accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To: (505) 392-6949

Received:

10/17/2013

Sampling Date:

10/16/2013

Reported:

10/22/2013

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:

NW/SW SECT 32 T15 R35

Sample ID: CELL 1 - T (H302514-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					S-04
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	% 65.2-14	0	1.4		•			

Surrogate: 1-Chlorooctadecane 115 % 03.2-140
Surrogate: 1-Chlorooctadecane 216 % 63.6-154

Sample ID: CELL 2 - T (H302514-02)

Chloride, SM4500Cl-B	mg /	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2013	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 9	% 65.2-140	9	,					
Surrogate: 1-Chlorooctadecane	1 0 8 9	63.6-154	4						

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*=Accredited Analyte

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Celey D. Keena



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To: (505) 392-6949

Received:

10/17/2013

Sampling Date:

10/16/2013

Reported:

10/22/2013

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:

NW/SW SECT 32 T15 R35

Sample ID: CELL 3 - T (H302514-03)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2013	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	1235	% 65.2-14	0				· MS	N. V.V	
Surrogate: 1-Chlorooctadecane	129 9	63.6-15	4						

Sample ID: CELL 4 - T (H302514-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS		***************************************			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2013	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	% 65.2-14	0		18		1.71.7	- A\1P	A + 4 × 1 × 4
Surrogate: 1-Chlorooctadecane	123	% 63.6-15	4						

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Celey D. Keena



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To: (505) 392-6949

Received:

10/17/2013

Sampling Date:

10/16/2013

Reported:

10/22/2013

Sampling Type:

Soil

Project Name:

JAY DAN LAND FARM JAY DAN LANDFARM Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

NW/SW SECT 32 T15 R35

Sample ID: CELL 1 - V (H302514-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS		44			
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 9	6 89.4-12	6			4.07			1.44
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/22/2013	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	1099	6 65.2-14	0						
Surrogate: 1-Chlorooctadecane	1179	63.6-15	4						

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Celey D. Keena



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242 Fax To: (505) 392-6949

Received: 10/17/2013

10/22/2013

Sampling Date:

10/16/2013

Reported:

Sampling Type:

Soil

Project Name:

JAY DAN LAND FARM JAY DAN LANDFARM

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

NW/SW SECT 32 T15 R35

Sample ID: CELL 2 - V (H302514-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2013	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 %	6 89. 4 -12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2013	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%	65.2-14	0						
Surrogate: 1-Chlorooctadecane	1179	63.6-15	4						

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Celey D. Keine



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To: (505) 392-6949

Received:

10/17/2013

Sampling Date:

10/16/2013

Reported:

10/22/2013

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:

NW/SW SECT 32 T15 R35

Sample ID: CELL 4 - V (H302514-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/19/2013	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	99.69	% 89.4-12e	6			10.70			
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/18/2013	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	1149	6 65.2-140	0			- 1487			
Surrogate: 1-Chlorooctadecane	115 %	6 63.6-154	4						

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*=Accredited Analyte

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Celuy D. Keene



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To: (505) 392-6949

Received: Reported: 10/17/2013

10/22/2013

117%

54.8-165

JAY DAN LAND FARM JAY DAN LANDFARM

Project Number: Project Location:

Surrogate: 1-Chlorooctadecane

Project Name:

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, SM4500CI-B	mg	/L	Analyze	d 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	Analyze	d 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	% 48.7-16	54					- 0/2	

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Celey D. Keine



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. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariand, Hobbe, NM 88240 (575) 393-2326 FAX (575) 393-2476

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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/ga/lab accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

601 W. Illinois Hobbs NM, 88242

Project Number: JAY DAN Project Manager: Eddie Seay

Fax To: (505) 392-6949

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. Keina



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

Project Number: JAY DAN Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3-A H302515-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	d Laborato	ories					
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 r	ng/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 Go	C 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 E	PA 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 %	35-1	40	3111904	CK	24-Oct-13	8082	

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Celey D. Keine



Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

Hobbs NM, 88242

Project Number: JAY DAN Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3-A H302515-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by E	PA Method 826	0B								
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-Dichloroeth ane*	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-Methyln aphth alene	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. Keine



Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN
Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3 - A H302515-01 (Soil)

Analyte	Result	MDL Reporting	Units	Dilution	Batch	Analyst	Analyzed	Method	Note
		Cardin	al Labora	tories					
Semivolatile Organic Compound	ds 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]flouranthene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[k]flouranthene	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-dl4		<i>57.4</i> %	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/	kgdry 4	B310283	ABP	29-Oct-13	4500-F- C
Nitrate/Nitrite as N	2.41	0.080 mg/	kgdry 4	B310216	KLJ	23-Oct-13	EPA353.2
Nitrite as N	0.163	0.160 mg/	kgdry 8	B310234	KLJ	25-Oct-13	EPA353.2

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Celey D. Keena



Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

Hobbs NM, 88242

Project Number: JAY DAN

Project Manager: Eddie Seay

19-Nov-13 15:11

Fax To: (505) 392-6949

CELL 3-A H302515-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		(Green Anal	ytical Labo	oratories					
Total Metals by ICP									4.00	
Iron	3040		5.00	mg/kg dry	100	B310226	JGS	24-Oct-13	EPA6010 B	
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	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keina



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3-B H302515-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborato	ories					
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	
Phenois	1.2		0.5	ng/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			14111							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							40		
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	A Method 8082						- www.			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 %	35-1	40	3111904	CK	24-Oct-13	8082	

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Celey D. Keine



Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

Project Number: JAY DAN Hobbs NM, 88242

Project Manager: Eddie Seay Fax To: (505) 392-6949

> CELL 3-B H302515-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Volatile Organic Compounds by E	PA Method 8260)B								
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-Dichloroeth ane*	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	826 0	
1,2-Dichloroethane*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	826 0	
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	826 0	
1,1,2-Trichloroethane*	ND		0.0500	mg/kg	50	3102108	MS	22-Oct-13	826 0	
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. Keine

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

Hobbs NM, 88242

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

> CELL 3-B H302515-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Note
			Cardina	l Laborat	ories					
Semivolatile Organic Compound	ls 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]flouranthene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[k]flouranthene	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-dl4			58.4 %	21.3	-96.I	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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Celey D. Keine



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

Project Number: JAY DAN

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3 - B H302515-02 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Labo	oratories					
Total Metals by ICP									
Iron	2510	5.00	mg/kg dry	100	B310226	JGS	24-Oct-13	EPA6010 B	
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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Celey D. Keina



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

Project Number: JAY DAN
Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3 - C H302515-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborato	ories					
Inorganic Compounds										
Chloride	ND		16.0	mg/kg	4	3102109	AP	22-Oct-13	4500-CI-B	
pH*	7.40		0.100	pH Units	1	3102204	AP	22-Oct-13	9045	
Phenols	5.0		0.5 г	ng/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 El	PA 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 %	35-1	40	3111904	CK	24-Oct-13	8082	

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Celey D. Keine



Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

Hobbs NM, 88242

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

> CELL 3-C H302515-03 (Soil)

Reporting

Analyte	Result	MDL	Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by E	PA Method 8260	B								
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 %	7 0	130	3102108	MS	22-Oct-13	8260	
Surrogate: 4-Bromofluorobenzene			114 %	7 0 -	130	3102108	MS	22-Oct-13	8260	
Semivolatile Organic Compounds	by GCMS		M-2							
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. Keine

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

601 W. Illinois Hobbs NM, 88242

Project Number: JAY DAN Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3-C H302515-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardinal	Laborat	ories					
Semivolatile Organic Compound	ds 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	
yrene	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]flouranthene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[k]flouranthene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Senzo[a]pyrene	ND		0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
ndeno[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	
urrogate: Nitrobenzene-d5			45.7%	16.1-	91.8	3102102	MS	28-Oct-13	8270C	
'urrogate: 2-Fluorobiphenyl			48.9 %	27.2-	92.9	3102102	MS	28-Oct-13	827 0 C	
Surrogate: Terphenyl-dl4			60.8 %	21.3-	96.1	3102102	MS	28-Oct-13	8270C	

Green Analytical Laboratories

General Chemistry								
Cyanide, Total	ND	1.00 mg	g/kg dry 10	00	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	g/kg dry	4	B310283	ABP	29-Oct-13	4500-F-C
Nitrate/Nitrite as N	35.3	0.800 mg	g/kg dry 4	Ю	B310216	KLJ	23-Oct-13	EPA353.2
Nitrite as N	0.279	0.160 mg	g/kg dry	8	B310234	KLJ	25-Oct-13	EPA353.2

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Celey D. Keina



Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

Hobbs NM, 88242

Project Number: JAY DAN Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3-C H302515-03 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Lab	oratories					
Total Metals by ICP									
Iron	6900	5.00	mg/kg dry	100	B310226	JGS	24-Oct-13	EPA6010 B	
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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Celey D. Keina



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

601 W. Illinois Hobbs NM, 88242

Project Number: JAY DAN Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3-D H302515-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborato	ories					
Inorganic Compounds				·						
Chloride	ND		16.0	mg/kg	4	3102109	AP	22-Oct-13	4500-CI-B	
рН*	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	GAI
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 El	PA 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 %	35-1-	40	3111904	CK	24-Oct-13	8082	

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Celey D. Keina

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN
Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3 - D H302515-04 (Soil)

Analyte	Result	MDL I	rting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Car	rdinal	Laborat	ories					
Volatile Organic Compounds by E	PA Method 826)B								
Vinyl chloride*	ND	0.0	500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1-Dichloroethene*	ND	0.0	500	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	0.0	500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Chloroform*	ND	0.0	500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Carbon tetrachloride*	ND	0.0	500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1,1-Trichloroethane*	ND	0.0	500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Benzene*	ND	0.0	0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,2-Dichloroethane*	ND	0.0	0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Trichloroethene*	ND	0.0	0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Toluene*	ND	0.0	0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Tetrachloroethene*	ND	0.0	500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,1,2-Trichloroethane*	ND	0.0	0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
1,2-Dibromoethane*	ND	0.0	0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Ethylbenzene*	ND	0.0	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	0.0	500	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	0.0	0500	mg/kg	50	3102108	MS	22-Oct-13	8260	
Naphthalene*	ND	0.0	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 %	7 0 -	130	3102108	MS	22-Oct-13	8260	
Surrogate: 4-Bromofluorobenzene		11	2%	7 0 -	130	3102108	MS	22-Oct-13	8260	
Semivolatile Organic Compounds							· · · · · ·			
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-Methyln aphthalene	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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Celay D. Kura

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN
Project Manager: Eddie Seay

19-Nov-13 15:11

Fax To: (505) 392-6949

CELL 3 - D H302515-04 (Soil)

Analyte	Result	MDL Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Note
		Cardina	d Laborat	ories					
Semivolatile Organic Compound	ds 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]flouranthene	ND	0.040	mg/kg	40	3102102	MS	28-Oct-13	8270C	
Benzo[k]flouranthene	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-dl4		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. Keine



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

Project Manager: Eddie Seay

19-Nov-13 15:11

Fax To: (505) 392-6949

CELL 3-D H302515-04 (Soil)

Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Lab	oratories					
Total Metals by ICP									
Iron	2310	5.00	mg/kg dry	100	B310226	JGS	24-Oct-13	EPA6010 B	
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. Keine



Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

Hobbs NM, 88242

Project Number: JAY DAN Project Manager: Eddie Seay

Fax To: (505) 392-6949

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC	RPD	RPD Limit	Notes
rumiy w	Result	Linut	Oilles	Level	Vesaut	/MCLX	Dimin	KI D	Dhiir	110003
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)	Sou	rce: H302515	⊢0 1	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. Keine



Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN Project Manager: Eddie Seay 19-Nov-13 15:11

Fax To: (505) 392-6949

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
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	1			
Phenois	0.4		mg/kg	0.400		91.5	70-130			
Matrix Spike (3111905-MS1)	Sour	ce: H30251	5-01	Prepared &	Analyzed:	05-Nov-13	1			
Phenols	4.9		mg/kg	4.08	0.9	96.3	70-130			
Matrix Spike Dup (3111905-MSD1)	Sour	ce: H30251	5-01	Prepared &	Analyzed:	05-Nov-13				
Phenois	4.4		mg/kg	4.08	0.9	85.6	70-130	9.46	20	

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Celey D. Keina



Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

Hobbs NM, 88242

Project Number: JAY DAN Project Manager: Eddie Seay

Fax To: (505) 392-6949

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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. Keina



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

Project Number: JAY DAN

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Polychlorinated Biphenyls by EPA Method 8082 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3111904 - 3550										
Blank (3111904-BLK1)				Prepared: 1	17-Oct-13 A	nalyzed: 2	4-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: 1	17-Oct-13 A	nalyzed: 2	4-Oct-13			
PCB 1016	104		ug/L	100		104	40-130			
PCB 1260	104		ug/L	100		104	40-130			
Surrogate: Tetrachloro-meta-xylene	6.10		ug/L	10.0		61.0	35-140			
Matrix Spike (3111904-MS1)	Source	ce: H302515-	01	Prepared: 1	17-Oct-13 A	nalyzed: 2	4-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	7.05		ug/L	10.0		70.5	35-140			
Matrix Spike Dup (3111904-MSD1)	Source	ce: H302515-	-01	Prepared: 1	17-Oct-13 A	nalyzed: 2	4-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	7.26	.,	ug/L	10.0		72.6	35-140			

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Celey D. Keine

%REC



Analytical Results For:

Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Source

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN
Project Manager: Eddie Seay

19-Nov-13 15:11

RPD

Fax To: (505) 392-6949

Spike

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3102108 - Volatiles	 									
Blank (3102108-BLK1)				Prepared: 2	21-Oct-13 A	nalyzed: 22	2-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	7 0 -1 3 0			
Surrogate: 4-Bromofluorobenzene	0.564		mg/kg	0.500		11 3	7 0-13 0			
LCS (3102108-BS1)				Prepared: 2	21-Oct-13 A	nalyzed: 2	2-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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

0/DEC



Analytical Results For:

Eddie Seay Consulting 601 W. Illinois Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

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Hobbs NM, 88242

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

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	20 20 20 20 20 20 20 20 20 20 20 20 20 2	Notes
Batch 3102108 - Volatiles										
LCS (3102108-BS1)				Prepared: 2	21-Oct-13 A	nalyzed: 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			
richloroethene	0.410	0.0500	mg/kg	0.400		102	70-130			
Coluene	0.362	0.0500	mg/kg	0.400		90.4	7 0-130			
etrachloroethene	0.368	0.0500	mg/kg	0.400		92.0	70-130			
,1,2-Trichloroethane	0.351	0.0500	mg/kg	0.400		87.7	7 0-130			
,2-Dibromoethane	0.349	0.0500	mg/kg	0.400		87.2	70-130			
Sthylbenzene	0.375	0.0500	mg/kg	0.400		93.8	70-130			
n-p Xylenes	0.762	0.100	mg/kg				70-130			
-Xylene	0.361	0.0500	mg/kg	0.400		90.3	70-130			
otal Xylenes	1.12	0.150	mg/kg	1.20		93.6	70-130			
,1,2,2-Tetrachloroethane	0.349	0.0500	mg/kg	0.400		87.2	70-130			
Taphthalene	0.375	0.0500	mg/kg	0.400		93.6	7 0-130			
urrogate: Dibromofluoromethane	0.517		mg/kg	0.500		103	70-130			
urrogate: Toluene-d8	0.506		mg/kg	0.500		101	70-130			
urrogate: 4-Bromofluorobenzene	0.562		mg/kg	0.500		112	70-130			
CS Dup (3102108-BSD1)				Prepared: 2	21-Oct-13 A	nalyzed: 22	2-Oct-13			
/inyl chloride	0.407	0.0500	mg/kg	0.400		102	70-130	13.2	20	
,1-Dichloroethene	0.401	0.0500	mg/kg	0.400		100	70-130	0.0899	20	
fethylene chloride	0.393	0.0500	mg/kg	0.400		98.2	7 0-1 3 0	1.71	20	
,1-Dichloroethane	0.394	0.0500	mg/kg	0.400		98.5	70-130	9.11		
Chloroform	0.360	0.0500	mg/kg	0.400		90.0	70-130	6.99		
Carbon tetrachloride	0.339	0.0500	mg/kg	0.400		84.6	70-130	19.9		
,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		
,2-Dichloroethane	0.401	0.0500	mg/kg	0.400		100	70-130	4.42		
richloroethene	0.350	0.0500	mg/kg	0.400		87.4	7 0-130	15.8		
oluene	0.310	0.0500	mg/kg	0.400		77.5	70-130	15.4	20	
etrachloroethene	0.443	0.0500	mg/kg	0.400		111	70-130	18.3		
,1,2-Trichloroethane	0.346	0.0500	mg/kg	0.400		86.4	70-130	1.52	20	
,2-Dibromoethane	0.330	0.0500	mg/kg	0.400		82.6	70-130	5.41	20	

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Celey D. Keena

Celey D. Keene, Lab Director/Quality Manager

%REC



Analytical Results For:

Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

RPD

Hobbs NM, 88242

Project Number: JAY DAN Project Manager: Eddie Seay

Fax To: (505) 392-6949

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

Analyte		Reporting		Spike	Source		%REC		RPD	
	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3102108 - Volatiles			. .							
LCS Dup (3102108-BSD1)				Prepared: 2	21-Oct-13 A	nalyzed: 2	2-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	7 0-1 3 0	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	7 0 -130			
Surrogate: 4-Bromofluorobenzene	0.552		mg/kg	0.500		110	7 0 -130			

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Celay D. Keina

%REC



Analytical Results For:

Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Source

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

19-Nov-13 15:11

RPD

Project Manager: Eddie Seay Fax To: (505) 392-6949

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Spike

Reporting

		Kebormig		Spike	Source		/MCE/C		KI D	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3102102 - SW846-3510										
Blank (3102102-BLK1)				Prepared: 2	21-Oct-13 A	nalyzed: 2	3-Oct-13			
Naphthalene	ND	0.040	mg/kg							
2-Methylnaphthalene	ND	0.040	mg/kg							
-Methylnaphthalene	ND	0.040	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Acensphthene	ND	0.040	mg/kg							
luorene	ND	0.040	mg/kg							
henanthrene	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]flouranthene	ND	0.040	mg/kg							
Benzo[k]flou ranthe ne	ND	0.040	mg/kg							
Benzo[a]pyrene	ND	0.040	mg/kg							
ndeno[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-dl4	1.25		mg/kg	2.00		62.4	21.3-96.1			
CS (3102102-BS1)				Prepared: 2	21-Oct-13 A	nalyzed: 28	3-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. Kuna



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Nov-13 15:11

Project Number: JAY DAN

Project Manager: Eddie Seay Fax To: (505) 392-6949

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3102102 - SW846-3510										
LCS (3102102-BS1)				Prepared: 2	21-Oct-13 A	nalvzed: 2	8-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			
Benzoja janthracene	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			
Benzol b flouranthene	0.236	0.040	mg/kg	0.400		59.0	17.6-158			
Benzo[k]flouranthene	0.243	0.040	mg/kg	0.400		60.8	10.6-169			
Benzola 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	2400	mg/kg	2.00	1.00	48.7	16.1-91.8			
Surrogate: 2-Fluorobiphenyl	1.01		mg/kg	2.00		50.3	27.2-92.9			
Surrogate: Terphenyl-dl4	1.14		mg/kg	2.00		57.1	21.3-96.1			
LCS Dup (3102102-BSD1)				Prenared: 2	21-Oct-13 A	nalvzed: 2	8-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	
Рутепе	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]flouranthene	0.237	0.040	mg/kg	0.400		59.3	17.6-158	0.435	31.4	
Benzo[k]flouranthene	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	
Dibenzja,hjanthracene	0.228	0.040	mg/kg	0.400		57.1	2.49-177	1.51	63.3	

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Celey & Keine

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242

Project Number: JAY DAN Project Manager: Eddie Seay Fax To: (505) 392-6949 19-Nov-13 15:11

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

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

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-dl4	1.14		mg/kg	2.00	56.8	21.3-96.1					

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Celey D. Keine



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN
Project Manager: Eddie Seay

19-Nov-13 15:11

Fax To: (505) 392-6949

General Chemistry - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B310288 - Cyanide Preparation										
Blank (B310288-BLK1)				Prepared: 2	28-Oct-13 A	nalyzed: 30	0-Oct-13			
Cyanide, Total	ND	0.0100	mg/kg wet							
LCS (B310288-BS1)				Prepared: 2	28-Oct-13 A	nalyzed: 30	0-Oct-13			
Cyanide, Total	0.103	0.0100	mg/kg wet	0.100		103	90-110			
LCS Dup (B310288-BSD1)				Prepared: 2	28-Oct-13 A	nalyzed: 30	0-Oct-13			
Cyanide, Total	0.104	0.0100	mg/kg wet	0.100		104	90-110	0.966	20	

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Celey & Keine



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN
Project Manager: Eddie Seay

19-Nov-13 15:11

Fax To: (505) 392-6949

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B310216 - General Prep - Wet Chem										
Blank (B310216-BLK1)				Prepared: 2	22-Oct-13 A	nalyzed: 2	3-Oct-13			
Nitrate/Nitrite as N	ND	0.020	mg/kg wet							
LCS (B310216-BS1)				Prepared: 2	22-Oct-13 A	nalyzed: 2	3-Oct-13			
Nitrate/Nitrite as N	1.05	0.020	mg/kg wet	1.00		105	90-110			
LCS Dup (B310216-BSD1)				Prepared: 2	22-Oct-13 A	nalyzed: 2	3-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. Kuna



Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

Hobbs NM, 88242

Project Number: JAY DAN Project Manager: Eddie Seay Fax To: (505) 392-6949 19-Nov-13 15:11

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD		١
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	1

Batch B310283 - General Prep - Wet Chem

LCS Dup (B310283-BSD1)			Prepared & Analys	zed: 29-Oct-13				
Fluoride	0.984	0.200 mg/kg w	et 1.00	98.4	85-115	0.102	20	

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Celey D. Keene, Lab Director/Quality Manager

Celey & Keene



Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN
Project Manager: Eddie Seay

19-Nov-13 15:11

Fax To: (505) 392-6949

Total Metals by ICP - Quality Control

Green Analytical Laboratories

	Reporting		Spike	Source		%REC		RPD	
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
			Prepared: 2	23-Oct-13 A	nalyzed: 24	4-Oct-13			
0.160	0.050	mg/kg dry							Bl
			Prepared: 2	23-Oct-13 A	nalyzed: 24	4-Oct-13			
3.99	0.050	mg/kg dry	4.00		99.8	85-115			
			Prepared: 2	23-Oct-13 A	nalyzed: 24	4-Oct-13			
3.99	0.050	mg/kg dry	4.00		99.9	85-115	0.0603	20	
	0.160	0.160 0.050 3.99 0.050	0.160 0.050 mg/kg dry 3.99 0.050 mg/kg dry	Prepared: 2	Prepared: 23-Oct-13 A	Prepared: 23-Oct-13 Analyzed: 24-Oct-13 Anal	Prepared: 23-Oct-13 Analyzed: 24-Oct-13	Prepared: 23-Oct-13 Analyzed: 24-Oct-13	Prepared: 23-Oct-13 Analyzed: 24-Oct-13

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Celeg & Keina

%REC



Analytical Results For:

Eddie Seay Consulting 601 W. Illinois

Hobbs NM, 88242

Project: JAY DAN LF NM-01-0045 5YR MAIN

Source

Reported:

Project Number: JAY DAN
Project Manager: Eddie Seay

Reporting

19-Nov-13 15:11

RPD

Fax To: (505) 392-6949

Spike

Total Metals by ICPMS - Quality Control

Green Analytical Laboratories

l		Kepormig		phike	504100		/ WILLIO		MD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B310225 - EPA 3050M										
Blank (B310225-BLK1)				Prepared: 2	23-Oct-13 A	nalyzed: 24	t-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							В
LCS (B310225-BS1)				Prepared: 2	23-Oct-13 A	nalyzed: 24	4-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			BS
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: 2	23-Oct-13 A	nalyzed: 24	I-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	BS
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. Kuna



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

19-Nov-13 15:11

Project Manager: Eddie Seay Fax To: (505) 392-6949

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 B310225 - EPA 3050M										
LCS Dup (B310225-BSD1)				Prepared: 2	23-Oct-13 A	nalyzed: 24	I-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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Celeg D. Kuna



Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN
Project Manager: Eddie Seay

19-Nov-13 15:11

Fax To: (505) 392-6949

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 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. Keina



Notes and Definitions

Z-01b 0.5 ± 0.1 0.4 ± 0.1 Z-01a 0.3 ± 0.1 Z-01 Analysis subcontracted to SunStar Laboratories, Inc. SUB-SS SUB-RS Analysis subcontracted to Radiation Safety Engineering, Inc. Analysis subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories. GAL Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially blased high. Will reanalyze per client BS1 Target analyte detected in method blank at or above method reporting limit. Sample concentration found to be 10 times above **B**1 the concentration found in the method blank or less than the reporting limit. Analyte NOT DETECTED at or above the reporting limit ND Relative Percent Difference RPD 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. Keine



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101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: E	P	P.O. #: Company:	YSIS REQUEST
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PLEASE NOTE: Liably and Damages. Cauchigit, lability and death exclusive rises by the graphess. At china inducing these for negligators and inp other cause whateverse that it may be not cause whateverse that it may be not cause whateverse that it may be not cause the cauchy includes a service. In no event that Court and he hade to be indicated or consequented demands, including the cause of the cauchy and the cauchy of	r any chim affeirg Whether based in eositre o cleaned waited cafees needs in scribing as by without balladien, bushaes inhemptions, r Certifus, researches of whether such deity	rack or lest, shad be levelated to the securate poid by the clears for the seaf received by Corolland within 30 days after completion of from re, been of time, or less of profits bearred by clears, its substitutions for its besself sector error of the aftern parties of research or officerable.	nd for the second secon
C) Charles and a second of the	Regulated By:	1	Phone Result: D Yes D No Add'! Phone #: Fax Result: D Yes D No Add'! Fax #: REMARKS:
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† Cardinal cannot accept verbal changes. Please fax written chapges to (575) 303-2328	se fax written chapges to	(\$75) 303-2328	



Sample 1.D. Sampl
BAMPLING BAMPLING BAMPLING DATE TIME TIME TIME TO do not the complete of the population of the application of the applic
Donzo - a - pyrene Copper Tran Managanese

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



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 accredited certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To: (505) 392-6949

Received:

04/30/2013

Sampling Date:

04/29/2013

Reported:

05/07/2013

Sampling Type:

Soil

Project Name:

JAY DAN LF (NM.01.0045)

Sampling Condition:

Cool & Intact

Project Number:

JAY DAN LF

Sample Received By:

Jodi Henson

Project Location:

NW/SW SEC 32 T15 R35 LEA

Sample ID: CELL 1 - T (H301015-01)

Chloride,	SM4500CI-B
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	•	

CRIDFINE, SM450UCFB	mg,	/ Kg	Analyze	a 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		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/01/2013	ND	194	97.1	200	4.64	
DRO >C10-C28	3380	10.0	05/01/2013	ND	19 2	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, SM4500CI-B	mg	/kg	Analyzed By: DW						
Analyte	Result	Result Reporting Limit		Analyzed Method Blank		% Recovery	True Value QC	RPD	Qualifier
Chloride	8080	16.0	04/30/2013	ND	416	104	400	3.77	
TPH 8015M	mg,	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	
			,, 2020					J.U1	

Surrogate: 1-Chlorooctane 94.2 % 65.2-140 Surrogate: 1-Chlorooctadecane 131% 63.6-154

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Celey D. Keine



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To: (505) 392-6949

Received:

04/30/2013

Sampling Date:

04/29/2013

Reported:

05/07/2013

Sampling Type:

Soil

Project Name:

JAY DAN LF (NM.01.0045)

Sampling Condition:

Cool & Intact

Project Number:

JAY DAN LF

93.5%

63.6-154

Sample Received By:

Jodi Henson

Project Location:

NW/SW SEC 32 T15 R35 LEA

Sample ID: CELL 3 - T (H301015-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					y
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	% 65.2-14	10						

Surrogate: 1-Chlorooctahe /9.5 % 03.2-140
Surrogate: 1-Chlorooctahecane 102 % 63.6-154

Sample ID: CELL 4 - T (H301015-04)

Surrogate: 1-Chlorooctadecane

Chloride, SM4500CI-B	mg/kg Result Reporting Limit		Analyze	d 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	Analyze	d By: MS					.,
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	10						

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Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To: (505) 392-6949

Received:

04/30/2013

Sampling Date:

04/29/2013

Reported:

05/07/2013

Sampling Type:

Soil

Project Name:

JAY DAN LF (NM.01.0045)

Sampling Condition:

Soil
Cool & Intact

Project Number:

JAY DAN LF (NM.01.00

Sampling Condition: Sample Received By:

Jodi Henson

Project Location:

NW/SW SEC 32 T15 R35 LEA

Sample ID: CELL 1 - V (H301015-05)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/30/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	65.2-14	0			disch se tions of the second			
Surrogate: 1-Chlorooctadecane	1079	6 63.6-15	4						

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Celey D. Keine



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To: (505) 392-6949

Received:

04/30/2013

Sampling Date:

04/29/2013

Reported:

05/07/2013

Sampling Type:

Soil

Project Name:

JAY DAN LF (NM.01.0045)

Sampling Condition:

Cool & Intact

Project Number:

JAY DAN LF

Sample Received By:

Jodi Henson

Project Location:

NW/SW SEC 32 T15 R35 LEA

Sample ID: CELL 3 - V (H301015-06)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 %	6 89.4-12	6			,			
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/30/2013	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 9	65.2-14	0	, , , , , , , , , , , , , , , , , , , ,			,		
Surrogate: 1-Chlorooctadecane	87.79	63.6-15	4						

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Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To: (505) 392-6949

Received:

04/30/2013

Sampling Date:

04/29/2013

Reported:

05/07/2013

Sampling Type:

Soil

JAY DAN LF (NM.01.0045)

Sampling Condition:

Cool & Intact

Project Name: Project Number:

JAY DAN LF

Sample Received By:

Jodi Henson

Project Location:

NW/SW SEC 32 T15 R35 LEA

Sample ID: CELL 4 - V (H301015-07)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	6 89.4-12	6		, , , , , , , , , , , , , , , , , , , ,	1.554111			
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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 %	6 65.2-14	0				- Alexandre de	Antonio Manageria de la compansión de la	
Surrogate: 1-Chlorooctadecane	1069	6 63.6-15	4						

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Celey D. Keine



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

04/30/2013

Sampling Date:

04/29/2013

Reported:

05/07/2013

Sampling Type:

Water

Project Name:

JAY DAN LF (NM.01.0045)

Sampling Condition:

Cool & Intact

Project Number:

JAY DAN LF

Sample Received By:

Jodi Henson

Project Location:

NW/SW SEC 32 T15 R35 LEA

Sample ID: JD - WW #1 (H301015-08)

Chloride, SM4500Cl-B	mg/	L	Analyze	d 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	Analyze	d 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	94.39	% 48.7-16	4						
Surrogate: 1-Chlorooctadecane	102 %	6 54.8-16	5						

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Celey D. Keene, Lab Director/Quality Manager

Celey D. Keine

Page 7 of 9



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. Keine



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

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		Address	626	Phone # 2- 2236 Fax #: 2. 6849	Pho
		Attn:	2 +C% : 412	State: NA	City:
		Company:		address: 601 vs Ill Mars	Add
		P.O. #:		Project Manager: E. L. San	Proj
ANALYSIS REQUEST			OUN AND	Company Name: The Low County	Co



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/ga/lab accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 03-Jun-13 15:58

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

Project Manager: Eddie Seay

Fax To: (505) 392-6949

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



Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 03-Jun-13 15:58

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN
Project Manager: Eddie Seay
Fax To: (505) 392-6949

Fax 10: (505) 392-6945

CELL 2 - A H301016-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	d Laborate	ories					
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	ng/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 %	35-1	40	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 EP	A 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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Celeg & Keine



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 03-Jun-13 15:58

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 2 - A H301016-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Volatile Organic Compounds by EPA N	1ethod 8260B								
Carbon tetrachloride*	ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,1,1-Trichloroeth ane*	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-Dichloroeth ane*	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-Trichloroeth ane*	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 %	7 0 -	130	3050102	MS	01-May-13	8260	
Surrogate: 4-Bromofluorobenzene		101 %	7 0 -	130	3050102	MS	01-May-13	8260	
Semivolatile Organic Compounds by G	CMS								
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	

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Celeg & Keine



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

03-Jun-13 15:58

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 2 - A H301016-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	d Laborat	ories					
Semivolatile Organic Compounds by GCMS			-3117						
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]flouranthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[k]flouranthene	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-dl4		146 %	21.3-	96.1	3050603	ms	07-May-13	8270C	
		Green Anal	ytical Lab	oratories					
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	ЛM	09-May-13	EPA6010 B	

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Celey D. Keina



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

03-Jun-13 15:58

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 2 - A H301016-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Labo	ratories					
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	ЛM	09-May-13	6020 A	
Chromium	2.11	0.100	mg/kg dry	100	B305051	ЛM	09-May-13	6020 A	
Соррег	1.24	0.0100	mg/kg dry	100	B305051	ЛM	09-May-13	6020 A	
Lead	2.08	0.0500	mg/kg dry	100	B305051	ЛM	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	ЛM	09-May-13	6020 A	
Uranium	0.565	0.0100	mg/kg dry	100	B305051	ЛM	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 & Keene



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 03-Jun-13 15:58

601 W. Illinois Hobbs NM, 88242

Project Number: JAY DAN Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 2-B H301016-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborate	ories					
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	
Phenois	ND	0.5 r	ng/kg d r y 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: Tetrachioro-meta-xylene		51.1 %	35-1	40	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	$\mathbf{C}\mathbf{K}$	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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Celeg & Keine

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

03-Jun-13 15:58

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 2 - B H301016-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	tories					
Volatile Organic Compounds by EPA M	lethod 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-Tetrachioroethane*	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 %	7 0 -	130	3050102	MS	01-May-13	8260	
Surrogate: Toluene-d8		98.6 %	<i>70</i> -	130	3050102	MS	01-May-13	8260	
Surrogate: 4-Bromofluorobenzene		102 %	<i>70</i> -	130	3050102	MS	01 -May-13	8260	
Semivolatile Organic Compounds by G	CMS								
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-Methyln aphth alene	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	82 7 0C	
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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Celeg & Keene

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 03-Jun-13 15:58

601 W. Illinois Hobbs NM, 88242

Project Number: JAY DAN

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 2-B H301016-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	d Laborat	ories					
Semivolatile Organic Compounds by GC	MS								
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]flouranthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[k]flouranthene	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-dl4		142 %	21.3-	96.1	3050603	ms	07-May-13	8270C	
		Green Analy	ytical Lab	oratories					
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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Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

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601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

03-Jun-13 15:58

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 2 - B H301016-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Anal	ytical Labo	oratories					
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	ЛM	09-May-13	6020 A	
Cadmium	1.78	0.0100	mg/kg dry	100	B305051	ЛLМ	09-May-13	6020 A	
Chromium	3.42	0.100	mg/kg dry	100	B305051	ЛM	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	ЛM	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	Jl.M	09-May-13	6020 A	
Silver	0.268	0.0100	mg/kg dry	100	B305051	ЛLМ	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	ЛM	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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Celey & Keine



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242

Project Number: JAY DAN

03-Jun-13 15:58

Project Manager: Eddie Seay Fax To: (505) 392-6949

> CELL 2-C H301016-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	d Laborato	ories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	3043008	DW	01-May-13	4500-CI-B	
pH*	6.99	0.100	pH Units	1	3050303	DW	03-May-13	150.1	
Phenols	ND	0.5 1	ng/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 %	35-1-	40	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	$U \pm 0.58$	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	826 0	

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Celey D. Keine



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

03-Jun-13 15:58

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 2 - C H301016-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories	,				
Volatile Organic Compounds by EPA Met	hod 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 %	7 0 -1	130	3050102	MS	01-May-13	8260	
Surrogate: 4-Bromofluorobenzene		98.1 %	7 0 -	130	3050102	MS	01-May-13	8260	
Semivolatile Organic Compounds by GCN	MS								
Naphthalene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	82 7 0C	
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 & Keine



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

03-Jun-13 15:58

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 2 - C H301016-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	d Laborat	ories					
Semivolatile Organic Compounds by Ge	CMS								
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]flouranthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[k]flouranthene	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-dl4		161 %	21.3-	96.1	3050603	ms	07-May-13	8270C	
		Green Analy	ytical Lab	oratories					
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-Мау-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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Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

03-Jun-13 15:58

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 2 - C H301016-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Analy	ytical Labo	oratories					
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	ЛM	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	ЛM	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	ЛLМ	09-May-13	6020 A	
Uranium	0.167	0.0100	mg/kg dry	100	B305051	ЛM	09-May-13	6020 A	
Zinc	14.9	0.100	mg/kg dry	100	B305051	ЛLМ	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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Celey & Keena



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN
Project Manager: Eddie Seay

03-Jun-13 15:58

Fax To: (505) 392-6949

CELL 2 - D H301016-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	d Laborato	ries					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	3043008	DW	01-May-13	4500-CI-B	
pH*	8.20	0.100	pH Units	1	3050303	DW	03-May-13	150.1	
Phenols	ND	0.5	ng/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	υg/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 %	35-1-	40	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-	40	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 EP.	A 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 & Kuna



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 03-Jun-13 15:58

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 2 - D H301016-04 (Soil)

Volatile Organic Compounds by EPA Method 8260B 1,1,1-Trichloroethane* ND Benzene* ND 1,2-Dichloroethane* ND Trichloroethene* ND Toluene* ND 1,1,2-Trichloroethane* ND 1,1,2-Trichloroethane* ND 1,2-Dibromoethane* ND Ethylbenzene* ND m-p Xylenes* ND Total Xylenes* ND 1,1,2,2-Tetrachloroethane* ND ND Naphthalene* ND Surrogate: Dibromofluoromethane Surrogate: Toluene-d8	Cardina 0.0500	l Laborato	ories					
1,1,1-Trichloroethane* Benzene* ND 1,2-Dichloroethane* ND Trichloroethene* ND Toluene* ND Tetrachloroethene* ND 1,1,2-Trichloroethane* ND 1,2-Dibromoethane* ND Ethylbenzene* ND m-p Xylenes* ND Total Xylenes* ND 1,1,2,2-Tetrachloroethane* ND Naphthalene* ND Surrogate: Dibromoftuoromethane	0.0500							
Benzene* ND	0.0500							
1,2-Dichloroethane* ND Trichloroethene* ND Toluene* ND 1,1,2-Trichloroethane* ND 1,1,2-Trichloroethane* ND 1,2-Dibromoethane* ND Ethylbenzene* ND m-p Xylenes* ND o-Xylene* ND Total Xylenes* ND 1,1,2,2-Tetrachloroethane* ND Naphthalene* ND Surrogate: Dibromoftuoromethane		mg/kg	50	3050102	MS	01-May-13	8260	
Trichloroethene* ND Toluene* ND Tetrachloroethene* ND 1,1,2-Trichloroethane* ND 1,2-Dibromoethane* ND Ethylbenzene* ND m-p Xylenes* ND o-Xylene* ND Total Xylenes* ND 1,1,2,2-Tetrachloroethane* ND Naphthalene* ND Surrogate: Dibromoftuoromethane	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Toluene* ND Tetrachloroethene* ND 1,1,2-Trichloroethane* ND 1,2-Dibromoethane* ND Ethylbenzene* ND m-p Xylenes* ND o-Xylene* ND Total Xylenes* ND 1,1,2,2-Tetrachloroethane* ND Naphthalene* ND Surrogate: Dibromoftuoromethane	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Tetrachloroethene* ND 1,1,2-Trichloroethane* ND 1,2-Dibromoethane* ND Ethylbenzene* ND m-p Xylenes* ND O-Xylene* ND Total Xylenes* ND 1,1,2,2-Tetrachloroethane* ND Surrogate: Dibromofluoromethane	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,1,2-Trichloroethane* ND 1,2-Dibromoethane* ND Ethylbenzene* ND m-p Xylenes* ND o-Xylene* ND Total Xylenes* ND 1,1,2,2-Tetrachloroethane* ND Naphthalene* ND	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
1,2-Dibromoethane* ND Ethylbenzene* ND m-p Xylenes* ND O-Xylene* ND Total Xylenes* ND 1,1,2,2-Tetrachloroethane* ND Naphthalene* ND Surrogate: Dibromofluoromethane	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Ethylbenzene* ND m-p Xylenes* ND o-Xylene* ND Total Xylenes* ND 1,1,2,2-Tetrachloroethane* ND Naphthalene* ND Surrogate: Dibromoftuoromethane	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
m-p Xylenes* ND o-Xylene* ND Total Xylenes* ND 1,1,2,2-Tetrachloroethane* ND Naphthalene* ND Surrogate: Dibromofluoromethane	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
o-Xylene* ND Total Xylenes* ND 1,1,2,2-Tetrachloroethane* ND Naphthalene* ND Surrogate: Dibromofluoromethane	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Total Xylenes* ND 1,1,2,2-Tetrachloroethane* ND Naphthalene* ND Surrogate: Dibromofluoromethane	0.100	mg/kg	50	3050102	MS	01-May-13	8260	
1,1,2,2-Tetrachloroethane* ND Naphthalene* ND Surrogate: Dibromofluoromethane	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Naphthalene* ND Surrogate: Dibromofluoromethane	0.150	mg/kg	50	3050102	MS	01-May-13	8260	
Surrogate: Dibromoftuoromethane	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
·	0.0500	mg/kg	50	3050102	MS	01-May-13	8260	
Surroyate: Toluene-d8	99.1 %	70-1	30	3050102	MS	01-May-13	8260	
9	97.7 %	7 0-1 .	30	3050102	MS	01-May-13	8260	
Surrogate: 4-Bromofluorobenzene	98.0 %	70-1	30	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	
Fluor anthene ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	

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Celey D. Keine



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

03-Jun-13 15:58

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 2-D H301016-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	d Laborat	ories					
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]flouranthene	ND	0.040	mg/kg	40	3050603	ms	07-May-13	8270C	
Benzo[k]flouranthene	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-dl4		160 %	21.3-	96.1	3050603	ms	07-May-13	8270C	
		Green Anal	ytical Lab	oratories					
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	ЛM	09-May-13	EPA6010 B	

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Celey & Kuna



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

03-Jun-13 15:58

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 2 - D H301016-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Green Analy	ytical Labo	oratories					
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	ЛM	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-Мау-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	ЛLМ	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	ЛM	09-May-13	6020 A	
Uranium	0.581	0.0100	mg/kg dry	100	B305051	ЛM	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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Celey D. Keena



Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 03-Jun-13 15:58

Project Number: JAY DAN Hobbs NM, 88242

Project Manager: Eddie Seay Fax To: (505) 392-6949

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3043008 - 1:4 DI Water		***************************************				***************************************				
Blank (3043008-BLK1)			and Southfloods about Andrews	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-Арт-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)	So	urce: 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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Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 03-Jun-13 15:58

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN
Project Manager: Eddie Seay

OS-SUIT-1

Fax To: (505) 392-6949

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3060305 - General Prep										
Blank (3060305-BLK1)				Prepared &	Analyzed:	27-May-13	3			
Phenols	ND	0.5	mg/kg dry wt.							
LCS (3060305-BS1)				Prepared &	Analyzed:	27-May-13	3			
Phenois	0.4		mg/kg	0.400		101	70-130			
Matrix Spike (3060305-MS1)	Sour	rce: H301016	5-02	Prepared &	: Analyzed:	27-May-13	3			
Phenois	4.3		mg/kg	4.08	0.0	106	70-130			
Matrix Spike Dup (3060305-MSD1)	Sour	rce: H301016	5-02	Prepared &	: Analyzed:	27-May-13	3			
Phenols	4.4		mg/kg	4.08	0.0	107	70-130	1.45	20	-

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Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 03-Jun-13 15:58

Hobbs NM, 88242

Project Number: JAY DAN Project Manager: Eddie Seay

Fax To: (505) 392-6949

Organic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
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: ()1-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: ()1-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: I-Chlorooctane	54.1		mg/kg	50.0		108	65.2-140		Atten	
Surrogate: 1-Chlorooctadecane	54.3		mg/kg	50.0		109	63.6-154			
Batch 3053110 - 3550										
Blank (3053110-BLK1)				Prepared: (3-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. Keine



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242

Project Number: JAY DAN

Project Manager: Eddie Seay

03-Jun-13 15:58

Fax To: (505) 392-6949

Organic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3053110 - 3550										
LCS (3053110-BS1)				Prepared: (03-May-13	Analyzed: 1	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)	Sou	rce: H301027-	-01	Prepared: ()3-May-13	Analyzed: 1	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	1000	ug/L	10.0		70.2	35-140			
Matrix Spike Dup (3053110-MSD1)	Sou	rce: H301027-	-01	Prepared: ()3-May-13	Analyzed: 1	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		70-13 0		20	
PCB 1260	0.00		ug/L	100	ND		70-130		20	
Surrogate: Tetrachloro-meta-xylene	0.00		ug/L	10.0			35-140		1400	S-01

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%REC



Analytical Results For:

Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Source

Reported:

RPD

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN
Project Manager: Eddie Seay

03-Jun-13 15:58

Fax To: (505) 392-6949

Spike

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

Reporting

		Kepotung		Shire	30 til ce		MICEC		KrD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3050102 - Volatiles										
Blank (3050102-BLK1)				Prepared &	Analyzed:	01-May-13	3			
Vinyl chloride	.ND	0.0500	mg/kg							
1,1-Dichloroethene	.ND	0.0500	mg/kg							
Methylene chloride	.ND	0.0500	mg/kg							
l, I-Dichloroethane	ND	0.0500	mg/kg							
Chloroform	ND	0.0500	mg/kg							
Carbon tetrachloride	ND	0.0500	mg/kg							
,1,1-Trichloroethane	ND	0.0500	mg/kg							
Benzene	ND	0.0500	mg/kg							
,2-Dichloroethane	ND	0.0500	mg/kg							
Trichloroethene	ND	0.0500	mg/kg							
Toluene	ND	0.0500	mg/kg							
etrachloroethene	ND	0.0500	mg/kg							
,1,2-Trichloroethane	ND	0.0500	mg/kg							
,2-Dibromoethane	ND	0.0500	mg/kg							
Sthylbenzene	ND	0.0500	mg/kg							
n-p Xylenes	ND	0.100	mg/kg							
-Xylene	ND	0.0500	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
,1,2,2-Tetrachloroethane	ND	0.0500	mg/kg							
Vaphthalene	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	1			
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-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	7 0-130			

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%REC



Analytical Results For:

Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Source

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN
Project Manager: Eddie Seay

03-Jun-13 15:58

RPD

Fax To: (505) 392-6949

Spike

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

Reporting

		Reporting		эріке	Source		70REC		KPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
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			
,1,2-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			
p-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			
,1,2,2-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-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-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-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	
,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	
l'oluene	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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Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

03-Jun-13 15:58

Project Manager: Eddie Seay

Fax To: (505) 392-6949

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 3050102 - Volatiles										
LCS Dup (3050102-BSD1)				Prepared &	Analyzed:	01-May-13	}			
Ethylbenzene	1.93	0.0500	mg/kg	2.00		96.3	7 0-1 3 0	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. 7 7	20	
Total Xylenes	6.14	0.150	mg/kg	6.00		102	70-13 0	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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Celeg & Keene



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

03-Jun-13 15:58

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3050603 - SW846-3510										
Blank (3050603-BLK1)				Prepared: (06-May-13 A	Analyzed: 0	7-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]flouranthene	ND	0.040	mg/kg							
Benzo[k]flouranthene	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-dl4	2.69		mg/kg	2.00		134	21.3-96.1			
LCS (3050603-BS1)				Prepared &	Analyzed:	06-May-13	ı			
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. Keine

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Analytical Results For:

Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN
Project Manager: Eddie Seay

03-Jun-13 15:58

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Fax To: (505) 392-6949

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
latch 3050603 - SW846-3510										
.CS (3050603-BS1)				Prepared &	Analyzed:	06-May-13	3			
luoranthene	0.463	0.040	mg/kg	0.400		116	34.6-148			
^у утепе	0.446	0.040	mg/kg	0.400		112	24.8-154			
Senzo[a]anthracene	0.447	0.040	mg/kg	0.400		112	0-179			
hrysene	0.456	0.040	mg/kg	0.400		114	35.1-150			
enzo[b]flouranthene	0.378	0.040	mg/kg	0.400		94.5	17.6-158			
enzo[k]flouranthene	0.412	0.040	mg/kg	0.400		103	10.6-169			
вепхо[а]рутеле	0.382	0.040	mg/kg	0.400		95.4	2.25-166			
ndeno[1,2,3-cd]pyrene	0.412	0.040	mg/kg	0.400		103	0-181			
ribenz[a,h]anthracene	0.401	0.040	mg/kg	0.400		100	2.49-177			
enzo[g,h,i]perylene	0.421	0.040	mg/kg	0.400		105	0-173			
urrogate: Nitrobenzene-d5	3,34		mg/kg	0.400		835	16.1-91.8			
urrogate: 2-Fluorobiphenyl	3.14		mg/kg	0.400		785	27.2-92.9			
urrogate: Terphenyl-dl4	3.08		mg/kg	0.400		771	21.3-96.1			
CS Dup (3050603-BSD1)				Prepared &	Analyzed:	06-May-13	3			
aphthalene	0.500	0.040	mg/kg	0.400		125	5.46-157	0.654	6.7	
Methylnaphthalene	0.488	0.040	mg/kg	0.400		122	16.1-146	2.11	8.99	
cenaphthylene	0.464	0.040	mg/kg	0.400		116	21.6-144	0.601	14.6	
cenaphthene	0.462	0.040	mg/kg	0.400		116	27-143	2.48	6.99	
luorene	0.460	0.040	mg/kg	0.400		115	30.9-138	1.38	13.9	
henanthrene	0.468	0.040	mg/kg	0.400		117	38.6-149	1.13	14.6	
inthracene	0.462	0.040	mg/kg	0.400		116	36.1-149	0.799	18.5	
arbazole	0.472	0.040	mg/kg	0.400		118	29.8-144	0.829	23.4	
luoranthene	0.472	0.040	mg/kg	0.400		118	34.6-148	2.06	19.7	
yrene	0.460	0.040	mg/kg	0.400		115	24.8-154	3.05	23	
enzo[a]anthracene	0.450	0.040	mg/kg	0.400		113	0-179	0.604	32.5	
hrysene	0.453	0.040	mg/kg	0.400		113	35.1-150	0.700	19.4	
enzo[b]flouranthene	0.402	0.040	mg/kg	0.400		101	17.6-158	6.18	31.4	
enzo[k]flouranthene	0.399	0.040	mg/kg	0.400		99.8	10.6-169	3.10	44.6	
enzo[a]pyrene	0.392	0.040	mg/kg	0.400		98.1	2.25-166	2.76	60.5	
ndeno[1,2,3-cd]pyrene	0.406	0.040	mg/kg	0.400		101	0-181	1.54	77	
Dibenzja, h janthracene	0.393	0.040	mg/kg	0.400		98.1	2.49-177	2.02	63.3	

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Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

03-Jun-13 15:58

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

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

Batch 3050603 - SW846-3510

LCS Dup (3050603-BSD1)		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. <i>31</i>		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-dl4	3.16		mg/kg	0.400	790	21.3-96.1								

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Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

03-Jun-13 15:58

Project Manager: Eddie Seay

Fax To: (505) 392-6949

General Chemistry - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois

Project Number: JAY DAN
Project Manager: Eddie Seay

03-Jun-13 15:58

Hobbs NM, 88242

Fax To: (505) 392-6949

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	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: 2	3-May-13	Analyzed: 2	24-May-13			
Nitrate/Nitrite as N	ND	0.100	mg/kg wet							
LCS (B305173-BS1)				Prepared: 2	23-May-13 A	Analyzed: 2	24-May-13			
Nitrate/Nitrite as N	0.566	0.100	mg/kg wet	0.500		113	75-125			
LCS Dup (B305173-BSD1)				Prepared: 2	23-May-13 A	Analyzed: 2	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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Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

03-Jun-13 15:58

Project Manager: Eddie Seay Fax To: (505) 392-6949

Total Metals by ICP - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 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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Celeg D. Keena



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN
Project Manager: Eddie Seay

03-Jun-13 15:58

Fax To: (505) 392-6949

Total Metals by ICPMS - Quality Control

Green Analytical Laboratories

İ		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B305051 - EPA 3050M										
Blank (B305051-BLK1)				Prepared: 0)8-May-13	Analyzed: 0	Q-May-13			
Arsenic	ND	0.0005	mg/kg dry	Troparou.	70-141ay-13 2	mmyzou.	7-14my-13			
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: 0	08-May-13	Analyzed: 0	9-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: 0	8-May-13	Analyzed: 0	9-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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*=Accredited Analyte

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Celey & Keena

%DEC



Analytical Results For:

Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

03-Jun-13 15:58

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Total Metals by ICPMS - Quality Control

Green Analytical Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B305051 - EPA 3050M										
LCS Dup (B305051-BSD1)				Prepared: (8-May-13	Analyzed: 0	9-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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Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 03-Jun-13 15:58

601 W. Illinois Hobbs NM, 88242

Project Number: JAY DAN Project Manager: Eddie Seay

Fax To: (505) 392-6949

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 B305046 - EPA 7471										
Blank (B305046-BLK1)				Prepared &	Analyzed:	08-May-13				
Mercury	ND	0.0002	mg/kg wet				72			
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. Keena



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

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Celey & Keena



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

+ "vrdinal cannot accept verbal changes. Please fax written changes to (575) 293-	Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Relinquished By: Date:	3	PLEASE NOTE: Limitly and Darmegas. Condust's leaking and effects exclusive removity analyses. At eather schooling shoes for medigence good any other causes witesbeever shell earwise. In no event shell Condust be taked to include the consequential desinges, betake earlies, or successors gridge and of or reliand in the particularity of sections have been presented.			4 3 3 5	3 c. 11 2 - C	2012 2 - 8	(a) a-)	Lab I.D. Sample I.D.	Sampler Name: Full	on: Die Sw	me: Charles Dans	Section	1.2236	503	Address: 101 W III NOOK	The C	101 East Mariand, Hobbs, NM 88240 (575) 393-2328 FAX (575) 393-2476 Company Name: FJI
nse fax written changes	Semple Con Cool Antas Cool Antas Cool Antas	Refered By:	O Received by:	made in writin knees interrupti shefter even o			5		5	2	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	MATRIX	154.35	CNOM . DI . DO YES States:	Project Owner: D. Wallow	1944	zip: Wa42		į	38240 476
86 C E E E E E E E E E E E E E E E E E E	Condition CHECKED BY:	•	lendon	nel within 30 days of profits incurred of the obers similar			2	Z/H	12, b	9/29	OTHER: ACIDIBASE: ICE/COOL OTHER:	PRESERV SAMPLING	Phone *:	State: Zip. Vy	CIIV:	Address	Attr. /	Company:	P.O. #:	
	•	20-E-2-3) B 184	190	pleate.	and the first state of the stat				1:30	3, 45	BTEX TPH (Calordy Auson Bouch	\$000 - 100 -	<u>. </u>							ANALYSIS REQUEST



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

State: St	State: Zip: Attn: Fax #: Address: Dig: Attn: Project Owner: Company: City: Attn: Project Owner: City: State
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (576) 393-2476

+ Cardinal	Delivered By Sampler - UPS	Relinquished B	Relinquished By	PLEASE NOTE: Liceny a analyses. All delins includi service. In so event shell C affiliates or successes still							Lab I.D.	Sampler Name:	Project Location:	Project Name: Jou	Project #:	Phone 井	Clty:	Address:	Project Manager:	Company Name:
cannot accept verb	Delivered By: (Circle One) Sampler - UPS - Bus - Other:	/		ing thereges. Cerome's access of ing these-for regigence and any of Ceronal be liable for incidental or or sing out of or related to the perform			C. 90 2 ~	- हि हिंदिन	2)	- F A-	Sample I.D.			The state of						ELL SE
al changes. Please		Date: Time:	11mog:20	o ceens accounts remony for any her cause whetherver shall be de me equental damages, including a <u>mos of services hyrounder by Car</u>			t	C	03					- and	Project Owner:	Fax #:	State:		,	Said Co
Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2828	Sample Cont	Received By:	Received By:	emed welved unte theid testadon, b		-	25	N C	2 2	La.	GROUNDWATER WASTEWATER SOIL OIL						Zip:		ز	CHARLES
16 (575) 383-2626	Condition CHECKED		Menson	ng and residued by Cardinal within 30 day ing and residued by Cardinal within 30 day stone, bee of the, or lose of profits incurre dains is been luppy any of the above state			2	2	2	A	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	Fax #:	Phone #:	State: Zip:	CHAN		Affr	Company:	P.O. #:	
	1,1		Phone Result: REMARKS:	amount past by the cent for the applicable to drys efter completion of the applicable restricted by others, he subsidiaries, we stated inspects or otherwise.			1	72	125	129	DATE TIME			Z	5					
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											P. H. Conloon			<u> </u>	ra.	7	·	7	ر د	

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,

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

Peldie W Soan

seay04@leaco.net

cc: Jay Dan Landfarm



September 24, 2012

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.qov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Eddie Seay Consulting Eddie Seay 601 W. Illinois Hobbs NM, 88242

Fax To:

(505) 392-6949

Received:

09/18/2012

Sampling Date: Sampling Type: 09/17/2012

Reported:

09/24/2012

Soil

Project Name:

JAY DAN LAND FARM JAY DAN LANDFARM

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

W. LOVINGTON

Sample ID: CELL 1 - T (H202248-01)

Chioride, SM4500CI-B	mg/kg		Analyze	d 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	
Surrogate: 1-Chlorooctane	89.5	% 65.2-14	0			~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			

Surrogate: 1-Chlorooctadecane 96.9% 63.6-154

Sample ID: CELL 2 - T (H202248-02)

Chloride, SM4500Cl-B	mg/kg		Analyze	d 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	Analyze	d 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	
Surrogate: 1-Chlorooctane	90.6	% 65.2-14	0				,		
Surrogate: 1-Chlorooctadecane	97.3	% 63.6-15	4						

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Celey Thema-



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 3 - T (H202248-03)

Chloride, SM4500Cl-B	mg/kg		Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0						

Surrogate: 1-Chlorooctadecane

87.1 %

63.6-154

Sample ID: CELL 4 - T (H202248-04)

Chloride, SM4500Cl-B	mg/kg		Analyze	d 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	Qualifie
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

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Celey & Keens



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

Reported:

JAY DAN LAND FARM

Sampling Condition:

Cool & Intact

Project Name: Project Number:

JAY DAN LANDFARM

Sample Received By:

Jodi Henson

Project Location:

W. LOVINGTON

Sample ID: CELL 2 - V (H202248-05)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 89. 4 -12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	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	Analyze	d By: MS			· · · · · · · · · · · · · · · · · · ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	10		-	, , , , , , , , , , , , , , , , , , , ,			
Surrogate: 1-Chlorooctadecane	87.9	% 63.6-15	4						

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Celey & Keens



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: Project Number: JAY DAN LAND FARM JAY DAN LANDFARM

Project Location:

W. LOVINGTON

Sampling Date:

09/17/2012

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: CELL 3 - V (H202248-06)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 89.4-12	6						
Chloride, SM4500Cl-B	4500CI-B mg/kg			d By: AP			<u>.</u>		
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	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	% 65.2-14	0	-		4.7			
Surrogate: 1-Chlorooctadecane	65.9	% 63.6-15	4						

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Celey & Keens



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: Sample Received By: Cool & Intact Jodi Henson

Project Number: Project Location:

JAY DAN LANDFARM

W. LOVINGTON

Sample ID: CELL 4 - V (H202248-07)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 %	6 89.4-120	5						
Chloride, SM4500Cl-B	ie, SM4500Cl-B mg/kg			d 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	88.69	6 65.2-140)						· · · · · · · · · · · · · · · · · · ·
Surrogate: 1-Chlorooctadecane	91.29	6 63.6-154	1						

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Celey & Keens



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: Project Number: JAY DAN LAND FARM 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		Analyze	d 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	Analyze	d 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	% 48.7-16	4						Marines de la Artina de Marine
Surrogate: 1-Chlorooctadecane	92.3	% 54.8-16	5						

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Celeg & Keens



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 & Keens

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST									ACT											No Add'l Phone #:	the Valor
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B/LL 70	P.O.#:	Company:	Attn: 🔨	Address	City:	State: Zip:	Phone #:	PRESERV. SAMPLING	<u> </u>	BYSE:	OTHE DATE	7 116	200	8 11/6		9 19/17 9	0/11/6	01 71/6 1		talm is based upon any of the above stated tensoms	May Re
Consutting	5		Zip: (8340	75%	O O	NM. 01 . DOLES State	Ϋ́ ,	Campon + Vactore.	SR A3T	O) AO 8. IAMINEI AWDN(BTAWE	иоэ # 10Я9	S	7	27		2 2	V 1		any daim arising whether hased in portrard deemed waived utdess made in wr.bing and g without Linitation, business interruptions,	Received By:	Received By:
33-2326 FAX (6/6) 393-	Fellin San	w Illinois	State: NM	236 Fax# 3.	Project #: Jaw Ookn Project Owner	1 San Laure aum	سکر ج سکر چ	THE THE		Sample I.D.	American Company	J-1 11-	コン・トー・	7-7	V = C 00°	× . w	7 - 7	1 # war was Two	is, Cardinats liability and the rinegligence and any other or incidental or consectiable for incidental or consectiable.	Sing out at or related to the performance of services hereunder ty Ca 3y:	Time; O:10
Company Name:	Project Manager:	Address: US \	City: 14 das	Phone #: 8. 22-36	Project #: Jan	Project Name: So.	Project Location: Dis	Sampler Name: E. S.		Lab I.D.	Huosays	<u>ٿ</u>	200	33	, 7t	2	3	S Jan	PLEASE NOTE: Liability and Damage analysos. Ali claimis including those to service, in no every shall Cardanal bei	Relinquished By:	Relinquished By:

Sample Condition
Cool Intact
Tyo Cool Intact
Tyour Pres Sampler - UPS - Bus - Other: Delivered By: (Circle One)

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



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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois

Project Number: JAY DAN

19-Oct-12 11:19

Hobbs NM, 88242 Project Manager: Eddie Seay
Fax To: (505) 392-6949

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

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Celey D. Keine



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Oct-12 11:19

601 W. Illinois Hobbs NM, 88242

Project Number: JAY DAN Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 1-A H202249-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardinal	Laborato	ries					
Total Metals									
Arsenic	2.63	0.050 m	g/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Barium	93.7	1.00 m	g/kg dry wt.	100	2101706	CK	05-Oct-12	6010B	GAL
Cadmium	0.278	0.0100 m	g/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Chromium	1.82	0.100 m	g/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Copper	3.30	2.00 m	g/kg dry wt.	100	2101706	CK	05-Oct-12	6010	GAL
Iron	2780	5.0 m	g/kg dry wt.	100	2101706	CK	05-Oct-12	6010	GAL
Lead	1.22	0.05 m	g/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Manganese	34.7	0.5 m	g/kg dry wt.	100	2101706	CK	05-Oct-12	6010	GAL
Mercury	ND	0.099 m	g/kg dry wt.	495	2101707	CK	03-Oct-12	7471A	GAL
Selenium	0.294	0.100 m	g/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Silver	0.0254	0.0100 m	g/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Uranium	0.354	0.0100 m	g/kg dry wt.	100	2101705	CK	24-Sep-12	6020	GAL
Zinc	19.0	5.0 m	g/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 m	g/kg dry wt.	5	2101711	CK	08-Oct-12	353.2	GAL
Nitrite as N	ND	0.080 m	g/kg dry wt.	4	2101712	CK	28-Sep-12	353.2	GAL
рН*	8.25	0.100	pH Units	1	2092609	HM	26-Sep-12	150.1	
Phenols	ND	0.5 m	g/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

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN
Project Manager: Eddie Seay

19-Oct-12 11:19

Fax To: (505) 392-6949

CELL 1 - A H202249-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	il Laborat	ories					
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-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-Trichloroeth ane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	826 0	
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. Keens



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN
Project Manager: Eddie Seay

19-Oct-12 11:19

Fax To: (505) 392-6949

CELL 1 - A H202249-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	Laborat	tories					
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	826 0	
1,2-Dibromoethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	826 0	
Ethylbenzene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	826 0	
m-p Xylenes*	ND	0.100	mg/kg	50	2091906	ms	19-Sep-12	826 0	
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	826 0	
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 %	<i>70</i> -	130	2091906	ms	19-Sep-12	8260	
Surrogate: 4-Bromoftworobenzene		113 %	<i>70</i> -	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	82 7 0C	
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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Celeg & Keens



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

19-Oct-12 11:19

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 1 - A H202249-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	tories					
Semivolatile Organic Compounds by C	CMS								
Benzo[b]flouranthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[k]flouranthene	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		<i>33.3</i> %	27.2	92.9	2092502	ms	25-Sep-12	8270C	
Surrogate: Terphenyl-dl4		38.4 %	21.3	96.1	2092502	ms	25-Sep-12	8270C	

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Celeg Li Keens



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

19-Oct-12 11:19

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 1 - B H202249-02 (Soil)

Analyte	Result	Reporting Limit Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardinal Laborat	ories					
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-CI-B	
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	
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



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN
Project Manager: Eddie Seay

19-Oct-12 11:19

Fax To: (505) 392-6949

CELL 1 - B H202249-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	d Laborat	ories					
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	C K	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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Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois

Project Number: JAY DAN

19-Oct-12 11:19

Hobbs NM, 88242

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 1 - B H202249-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	Laborat	ories					
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	m\$	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



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

19-Oct-12 11:19

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 1 - B H202249-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Semivolatile Organic Compounds by GCMS									
Benzo[b]flouranthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[k]flouranthene	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		<i>34.8</i> %	27.2-	92.9	2092502	ms	25-Sep-12	8270C	
Surrogate: Terphenyl-dl4		56,7 %	21.3	96.1	2092502	ms	25-Sep-12	8270C	

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Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

19-Oct-12 11:19

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 1 - C H202249-03 (Soil)

Analyte	Result	Reporting Limit Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardinal Laborato	ories					
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	
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	
Phenois	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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Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

19-Oct-12 11:19

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 1 - C H202249-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	al Laborat	ories					
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	826 0	
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	826 0	
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	826 0	
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



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

19-Oct-12 11:19

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 1-C H202249-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories		<u> </u>			
Volatile Organic Compounds by GCMS									
Trichloroethene ^a	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	82 60	
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 G	CMS								
Naphthalene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
2-Methyln aphthalene	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	
Acen aphthylene	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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Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

19-Oct-12 11:19

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 1 - C H202249-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
	,	Cardina	i Laborat	ories					
Semivolatile Organic Compounds by GCM	IS								
Benzo[b]flouranthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[k]flouranthene	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-dl4		40.3 %	21.3	-96.1	2092502	ms	25-Sep-12	8270C	

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Celey & Keens



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

19-Oct-12 11:19

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 1 - D H202249-04 (Soil)

Analyte	Result	Reporting Limit Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardinal Labor	ratories					
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-CI-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 Unit	s 1	2092609	HM	26-Sep-12	150.1	
Phenois	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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Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

19-Oct-12 11:19

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 1 - D H202249-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	d Laborat	ories					
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	$\textbf{0.7} \pm \textbf{0.1}$		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	$\textbf{0.7} \pm \textbf{0.1}$		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-Dichloroeth ane*	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-Dichloroeth ane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	

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Celey D. Keens

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois

Project Number: JAY DAN

19-Oct-12 11:19

Hobbs NM, 88242

Project Manager: Eddie Seay Fax To: (505) 392-6949

> CELL 1 - D H202249-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Volatile Organic Compounds by GCMS									
Trichloroethene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Coluene*	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	
,2-Dibromoethane*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
Ethyl benzene*	ND	0.0500	mg/kg	50	2091906	ms	19-Sep-12	8260	
n-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	
l,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	
-Methylnaphthalene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
-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	
luorene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Phen anthrene	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	
yrene	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. Keens



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

19-Oct-12 11:19

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 1 - D H202249-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	Laborat	tories					
Semivolatile Organic Compounds by GCMS									
Benzo[b]flouranthene	ND	0.040	mg/kg	40	2092502	ms	25-Sep-12	8270C	
Benzo[k]flouranthene	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-dl4		41.8 %	21.3	-96.1	2092502	ms	25-Sep-12	8270C	

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Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois

Project Number: JAY DAN

19-Oct-12 11:19

Hobbs NM, 88242

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Total Metals by ICPMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
nalyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
atch 2101705 - EPA 3050										
ank (2101705-BLK1)				Prepared &	Analyzed:	24-Sep-12				
hromium	ND	0.001	mg/kg dry							
			wt.							
rsenic	ND	0.0005	mg/kg dry							
,	ND.	0.000	wt.							
ead	ND	0.0005	mg/kg dry wt.							
lver	ND	0.0001	mg/kg dry							
	112	0.000	wt.							
admium	ND	0.0001	mg/kg dry							
			wt.							
elenium	ND	0.001	mg/kg dry							
			wt.							
ranium	ND	0.0001	mg/kg dry							
			wt.							
CS (2101705-BS1)				Prepared &	Analyzed:	24-Sep-12				
rsenic	0.055		mg/L	0.0500		111	85-115			
ead	0.05		mg/L	0.0500		105	85-115			
lver	0.0530		mg/L	0.0500		106	85-115			
ranium	0.0504		mg/kg	0.0500		101	85-115			
admium	0.0541		mg/L	0.0500		108	85-115			
hromium	0.056		mg/L	0.0500		112	85-115			
elenium	0.283		mg/L	0.250		113	85-115			
CS Dup (2101705-BSD1)				Prepared &	Analyzed:	24-Sep-12				
admium	0.0543		mg/L	0.0500		109	85-115	0.369	20	
rsenic	0.053		mg/L	0.0500		106	85-115	4.05	20	
ead	0.05		mg/L	0.0500		101	85-115	3.68	20	
anium	0.0532		mg/kg	0.0500		106	85-115	5.41	20	
romium	0.051		mg/L	0.0500		103	85-115	8.21	20	
elenium	0.270		mg/L	0.250		108	85-115	4.70	20	
ilver	0.0524		mg/L	0.0500		105	85-115	1.14	20	

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Celey D. Keens

%REC

Limite

DDD

%DEC



Analytical Results For:

Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Source

Decult

Prepared: 02-Oct-12 Analyzed: 03-Oct-12

105

85-115

Reported:

601 W. Illinois

Project Number: JAY DAN

19-Oct-12 11:19

RPD

I imit

Hobbs NM, 88242

Project Manager: Eddie Seay Fax To: (505) 392-6949

Spike

Lavel

Total Metals - Quality Control

Cardinal Laboratories

Reporting

I imit

Domilt

1.05

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2101706 - EPA 3050										
Blank (2101706-BLK1)				Prepared: (03-Oct-12 A	nalyzed: 05	5-Oct-12			
Barium	ND	0.0100	mg/kg dry							
			wt.							
Manganese	ND	0.005	mg/kg dry wt.							
ron	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 A	nalyzed: 05	5-Oct-12			
Zinc	1.9		mg/kg	2.00		96.5	85-115			
Barium	1.96		mg/kg	2.00		98.0	85-115			
Соррет	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 A	nalyzed: 0	5-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	
Соррег	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 A	nalyzed: 03	3-Oct-12			
Mercury	ND	0.100	mg/kg dry				·····			
			wt.							

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LCS (2101707-BS1)

Mercury

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mg/kg

1.00

Celey D. Keine



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

19-Oct-12 11:19

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Mercury (Total) by CVAA - Quality Control

Cardinal Laboratories

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



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported: 19-Oct-12 11:19

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2092609 - General Prep - Wet Chem										
.CS (2092609-BS1)				Prepared &	Analyzed:	26-Sep-12				
oH .	7.03		pH Units	7.00		100	90-110			
Duplicate (2092609-DUP1)	Sou	rce: H202249	-01	Prepared &	Analyzed:	26-Ѕер-12				
Н	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				
ulfate	ND	10.0	mg/kg							
CS (2101602-BS1)				Prepared &	Analyzed:	15-Oct-12				
ulfate	16.4	10.0	mg/kg	20.0		82.0	80-120			
.CS 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: 1	5-Oct-12 A	nalyzed: 16	5-Oct-12			
Chloride	ND	16.0	mg/kg							
CS (2101606-BS1)				Prepared: 1	5-Oct-12 A	nalyzed: 16	5-Oct-12			
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (2101606-BSD1)				Prepared: 1	5-Oct-12 A	nalyzed: 10	5-Oct-12			
Chloride	400	16.0	mg/kg	400		100	80-120	3.92	20	

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Celeg & Keens



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois

Project Number: JAY DAN
Project Manager: Eddie Seay

19-Oct-12 11:19

Hobbs NM, 88242

Fax To: (505) 392-6949

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2101709 - General Prep										
Blank (2101709-BLK1)				Prepared: 0)1-Oct-12 A	nalyzed: 02	?-Oct-12			
Cyanide (total)	ND	0.00500	mg/kg							
LCS (2101709-BS1)				Prepared: 0	01-Oct-12 A	nalyzed: 02	2-Oct-12			
Cyanide (total)	0.0511		mg/L	0.0500		102	85-115			
LCS Dup (2101709-BSD1)				Prepared: 0	01-Oct-12 A	nalyzed: 02	2-Oct-12			
Cyanide (total)	0.0516		mg/L	0.0500		103	85-115	0.974	20	
Batch 2101710 - General Prep										
Blank (2101716-BLK1)				Prepared &	Analyzed:	28-Ѕер-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 (2101716-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: 0	05-Oct-12 A	nalyzed: 0	3-Oct-12			
Nitrate/Nitrite as N	0.023	0.020	mg/kg dry wt.							F
LCS (2101711-BS1)				Prepared: 0	05-Oct-12 A	nalyzed: 0	3-Oct-12			
Nitrate/Nitrite as N	0.108		mg/L	0.100		108	85-115			

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Celey D. Keens



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois

Project Number: JAY DAN

19-Oct-12 11:19

Hobbs NM, 88242

Project Manager: Eddie Seay Fax To: (505) 392-6949

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2101711 - General Prep										
LCS Dup (2101711-BSD1)				Prepared: ()5-Oct-12 A	nalyzed: 08	3-Oct-12			
Nitrate/Nitrite as N	0.108		mg/L	0.100		108	85-115	0.462	20	
Batch 2101712 - General Prep										
Blank (2101712-BLK1)				Prepared: 2	26-Sep-12 A	nalyzed: 2	3-Sep-12			
Nitrite as N	ND	0.020	mg/kg dry wt.							
LCS (2101712-BS1)				Prepared: 2	26-Sep-12 A	nalyzed: 28	3-Sep-12			
Nitrite as N	0.094		mg/L	0.100		94.0	85-115			
LCS Dup (2101712-BSD1)				Prepared: 2	26-Sep-12 A	nalyzed: 28	3-Sep-12			
Nitrite as N	0.103		mg/L	0.100		103	85-115	9.14	20	
Batch 2101713 - General Prep										
Blank (2101713-BLK1)				Prepared &	Analyzed:	26-Sep-12				
Phenols	ND	0.5	mg/kg dry wt.							
LCS (2101713-BS1)				Prepared &	: Analyzed:	26-Sep-12				
Phenols	0.4		mg/kg	0.400		92.8	70-130			
Matrix Spike (2101713-MS1)	Sour	rce: H202249	-02	Prepared &	Analyzed:	26-Sep-12				
Phenols	4.2		mg/kg	4.08	0.0	103	70-130			
Matrix Spike Dup (2101713-MSD1)	Sour	rce: 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 & Keens



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

19-Oct-12 11:19

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Organic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2101611 - 3550	A COUNTY	Zamit.								
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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Celent Keine



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois

Project Number: JAY DAN

19-Oct-12 11:19

Hobbs NM, 88242

Project Manager: Eddie Seay Fax To: (505) 392-6949

Organic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2091908 - General Prep - Organics										
Blank (2091908-BLK1)				Prepared: 1	19-Sep-12 A	nalyzed: 2	0-S ep -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	63.6-15 4			
LCS (2091908-BS1)				Prepared: 1	19-Sep-12 A	nalyzed: 2	0-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: 1	9-Sep-12 A	nalyzed: 2	0-S ep- 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	1.00		
Surrogate: 1-Chlorooctadecane	46.9		mg/kg	50.5		92.9	63.6-154			

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%REC

Limits 1

%REC



Analytical Results For:

Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Source

Result

Reported:

601 W. Illinois

Analyte

Project Number: JAY DAN

19-Oct-12 11:19

RPD

Limit

Notes

RPD

Hobbs NM, 88242 Project Manager: Eddie Seay

Result

1.14

1.03

1.20

1.18

0.0500

0.0500

0.0500

0.0500

Fax To: (505) 392-6949

Spike

Level

Volatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Blank (2091906-BLK1)				Prepared & Anal	lyzed: 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 & Anal	yzed: 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	

Cardinal Laboratories

1.1-Dichloroethane

Carbon tetrachloride

1,1,1-Trichloroethane

Chloroform

*=Accredited Analyte

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mg/kg

mg/kg

mg/kg

mg/kg

1.00

1.00

1.00

1.00

114

103

120

118

70-130

70-130

70-130

70-130

Celey & Keens



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

19-Oct-12 11:19

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Volatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
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	7 0-1 3 0			
Toluene	1.14	0.0500	mg/kg	1.00		114	7 0-130			
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	7 0-1 3 0			
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	70-1 30			
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. Keine

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

19-Oct-12 11:19

Project Manager: Eddie Seay Fax To: (505) 392-6949

Volatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2091906 - Volatiles										
LCS Dup (2091906-BSD1)				Prepared &	Analyzed:	19-Ѕср-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	7 0-130	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. Keens

%REC

Limits

%REC

52.4

54.1

61.7

59.9

54.3

49.8

21.6-144

27-143

30.9-138

38.6-149

36.1-149

29.8-144



Analytical Results For:

Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Source

Result

Reported:

601 W. Illinois

Analyte

Project Number: JAY DAN

19-Oct-12 11:19

RPD

Limit

Notes

RPD

Hobbs NM, 88242 Project Manager: Eddie Seay

Result

0.262

0.270

0.308

0.299

0.271

0.249

0.040

0.040

0.040

0.040

0.040

0.040

Fax To: (505) 392-6949

Spike

Level

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

Blank (2092502-BLK1)				Prepared & Anal	yzed: 25-Sep-12	2	
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]flouranthene	ND	0.040	mg/kg				
Benzo[k]tlourenthene	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	<i>34</i> .8	27.2-92.9	
Surrogate: Terphenyl-dl4	0.852		mg/kg	2.00	42.6	21.3-96.1	
LCS (2092502-BS1)				Prepared & Anal	yzed: 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	

Cardinal Laboratories

Acenaphthylene

Acenaphthene

Phenanthrene

Anthracene

Carbazole

Fluorene

*=Accredited Analyte

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mg/kg

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mg/kg

mg/kg

mg/kg

0.500

0.500

0.500

0.500

0.500

0.500

Celey & Keens



Analytical Results For:

Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

19-Oct-12 11:19

Project Manager: Eddie Seay Fax To: (505) 392-6949

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2092502 - SW846-3510										
LCS (2092502-BS1)				Prepared &	t 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]flouranthene	0.282	0.040	mg/kg	0.500		56.5	17.6-158			
Benzo[k]flouranthene	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-dl4	0.994		mg/kg	2.00		49.7	21.3-96.1			
LCS Dup (2092502-BSD1)				Prepared &	t 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]flouranthene	0.302	0.040	mg/kg	0.500		60.3	17.6-158	6.62	31.4	
Benzo[k]flouranthene	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	
Dibenzja, h janthracene	0.201	0.040	mg/kg	0.500		40.3	2.49-177	23.2	63.3	

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*=Accredited Analyte

PLEASE NOTE: Liability and Demagas. Cardinal's liability and clerit's exclusive remedy for any claim arising, whether pased in contract or tort, shall be limited to the amount paid by clerit 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 demages, including, without limitation, pushess infarmuptions, loss of use, or loss of profits incurred by clerit, its substitatives, afflicates or successors arising out of or related to the performance of the services remander by Cardinal, regardless of whether such claim is based upon any of the above statistic 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. Keine

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting

Project: JAY DAN LF NM-01-0045 5YR MAIN

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN

19-Oct-12 11:19

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2092502 - SW846-3510										
LCS Dup (2092502-BSD1)				Prepared &	t Analyzed:	25-Ѕер-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-dl4	1.05		mg/kg	2.00		52.5	21.3-96.1			

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Celey D. Keens



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). NĐ 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. Keens



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	Company Name: Edice See, Consulting	Project Manager: Full See.	Address: Lot w Tyle (2) 318 Company:	City: 14010s State: NM ZIP: 8/24 0 Attn:	236 Fax#: 2.6	DEUM	Project Name: John Day LF (0345) State: Zip:	St32 T.15 P35		FOR LAB USE ONLY PRESERV SAMPLING	Lab I.D. Sample I.D. Sample I.D. Sample I.D. Sample I.D. Sharp or (C)OMP-WASTEWATER SOIL SOIL SOIL SOIL SOIL SOIL SOIL SOIL	(:) A - 1 (C.0)	>	3 Cal 1 - C DII v D ali 2:50 F	+ OF: S (1) () C C C C C C C C C			PLEASE NOTE: Liabiting and Demages. Cardinal's hisbility and clerat's exclusive remedy for tray cham using whether based in contract of Loct, shall be limited to the amount paid by the clerative the

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

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 accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



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

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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Celay D. Keene

Celey D. Keene, Lab Director/Quality Manager



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 1-1T H200433-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	336	16.0	mg/kg	4	2022102	AP	21-Feb-12	4500-C1-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		81.1 %	55.5	154	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		93.4 %	57.6	158	2021708	MS	18-Feb-12	8015M	

Cardinal Laboratories *=Accredited Analyte

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Celeg & Keens

Page 3 of 39



Eddie Seay Consulting

ulting Project: JAY DAN LF (NM.01.0045)

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF

09-Mar-12 17:00

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 1 - 1V H200433-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories			_		
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		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 Me	thod 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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Project Number: JAY DAN LF

Reported: 09-Mar-12 17:00

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 1 - 2V H200433-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes .
		Cardina	l Laborat	tories					
Inorganic Compounds	<u>-</u>								
Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-C1-B	
Organic Compounds				. <u>.</u>					
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 Metho	d 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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Reported: 09-Mar-12 17:00

Project Number: JAY DAN LF Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 1-3V H200433-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-CI-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		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 N	lethod 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	ΑP	21-Feb-12	8021B	

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Project Manager: Eddie Seay

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CELL 1 - 4V H200433-05 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
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	ī	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 Mo	ethod 8021							<u></u>	
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	ΑP	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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045) Reported: 09-Mar-12 17:00

Project Number: JAY DAN LF Project Manager: Eddie Seay

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CELL 1 - 5M H200433-06 (Soil)

Analyte	Result	Reporting Limit Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardinal Laborato	ries					
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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Project Manager: Eddie Seay

09-Mar-12 17:00

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CELL 2 - 1T H200433-07 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories			,		
Inorganic Compounds		-		***					
Chloride	2000	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-CI-B	
Organic Compounds									
GRO C6-C10	ND	10.0	mg/kg	I	2021708	MS	18-Feb-12	8015M	
DRO >C10-C28	505	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctane		94.3 %	55.5	-154	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		94.4 %	57.6	-158	2021708	MS	18-Feb-12	8015M	

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Project Manager: Eddie Seay

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CELL 2 - 1V H200433-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	2022103	ΑP	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		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 M	lethod 8021								
Benzene	ND	0.050	mg/kg	50	2022101	AP	22-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2022101	ΑP	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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Project Number: JAY DAN LF

Project Manager: Eddie Seay

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Reported: 09-Mar-12 17:00

CELL 2 - 2V H200433-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-CI-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		92.6 %	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 Met	thod 8021								
Benzene	ND	0.050	mg/kg	50	2022101	AP	21-Feb-12	8021B	
Toluene	ND	0.050	mg/kg	50	2022101	ΑP	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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Reported: 09-Mar-12 17:00

601 W. Illinois

Project Number: JAY DAN LF Project Manager: Eddie Seay

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CELL 2 - 3V H200433-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-CI-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		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 M	lethod 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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Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF

09-Mar-12 17:00

8242

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 2 - 4V H200433-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
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		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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Celey D. Keene, Lab Director/Quality Manager

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Project: JAY DAN LF (NM.01.0045)

Reported: 09-Mar-12 17:00

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF
Project Manager: Eddie Seay

lanager: Eddle Seay Fax To: (505) 392-6949

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CELL 2 - 5H H200433-12 (Soil)

Analyte	Result	Reporting Limit Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardinal Laborato	ries					
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

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Eddie Seay Consulting

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Project Number: JAY DAN LF

09-Mar-12 17:00

Hobbs NM, 88242

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3 - 1T H200433-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
<u></u>	***								
		Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	1040	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-Cl-B	
Organic Compounds		<u>. </u>							
GRO C6-C10	ND	50.0	mg/kg	5	2021708	MS	18-Feb-12	8015M	
DRO >C10-C28	3120	50.0	mg/kg	5	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctane		86.5 %	55.5	-154	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		88.1 %	57.6	-158	2021708	MS	18-Feb-12	8015M	

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Eddie Seay Consulting

Project: JAY DAN LF (NM.01.0045)

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF

09-Mar-12 17:00

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3 - 1V H200433-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
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		82.0 %	55.5-	154	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		95.2 %	57.6	158	2021708	MS	18-Feb-12	801 <i>5</i> M	
Volatile Organic Compounds by EPA Me	thod 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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Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF

09-Mar-12 17:00

Project Manager: Eddie Seay

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CELL 3 - 2V H200433-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
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		94.6 %	55.5	154	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		109 %	57.6	-158	2021708	MS	18-Feb-12	801 5M	
Volatile Organic Compounds by EPA Me	thod 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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Project: JAY DAN LF (NM.01.0045)

Reported: 09-Mar-12 17:00

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 3 - 3V H200433-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	tories		_			
Inorganic Compounds		<u></u>							
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 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 Me	thod 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	ΑP	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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Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF Project Manager: Eddie Seay 09-Mar-12 17:00

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CELL 3 - 4V H200433-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
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 M	lethod 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	ΑP	22-Feb-12	8021B	

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601 W. Illinois

Project Number: JAY DAN LF Project Manager: Eddie Seay

09-Mar-12 17:00

Fax To: (505) 392-6949

CELL 3 - 5H H200433-18 (Soil)

Analyte	Result	Reporting Limit Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardinal Laborato	ries					
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

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Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF

09-Mar-12 17:00

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 4 - 1T H200433-19 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	tories					
Inorganic Compounds									
Chloride	176	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	120	10.0	mg/kg	1	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctane		87.2 %	55.5	-154	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		89.8 %	57.6	-158	2021708	MS	18-Feb-12	8015M	

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Project: JAY DAN LF (NM.01.0045)

Project Number: JAY DAN LF

Reported: 09-Mar-12 17:00

Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 4 - 1V H200433-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Labora	tories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	2022103	AP	21-Feb-12	4500-CI-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		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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Reported: 09-Mar-12 17:00

Hobbs NM, 88242

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CELL 4 - 2V H200433-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
Inorganic Compounds									
Chloride	ND	16.0	mg/kg	4	2022103	ΑP	21-Feb-12	4500-CI-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		91.5 %	55.5	-154	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		104 %	57.6	-158	2021708	MS	18-Feb-12	8015M	
Volatile Organic Compounds by EPA Metho	od 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	ΑP	22-Feb-12	8021B	

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CELL 4 - 3V H200433-22 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	ories					
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		86.7 %	55.5	-154	2021708	MS	18-Feb-12	8015M	
Surrogate: 1-Chlorooctadecane		104 %	57.6	-158	2021708	MS	18-Feb-12	8015M	
Volatile Organic Compounds by EPA Met	hod 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	ΑP	22-Feb-12	8021B	

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Project: JAY DAN LF (NM.01.0045)

Reported: 09-Mar-12 17:00

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF
Project Manager: Eddie Seay

Fax To: (505) 392-6949

CELL 4 - 4V H200433-23 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Laborat	tories					
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		92.9 %	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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Project: JAY DAN LF (NM.01.0045)

Reported: 09-Mar-12 17:00

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF Project Manager: Eddie Seay

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CELL 4 - 5H H200433-24 (Soil)

Analyte	Result	Reporting Limit Units	Dilution	Batch	Analyst	Analyzed	Method	Notes						
		Cardinal Laborato	ries											
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						

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Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF (NM.01.0045)

Reported: 09-Mar-12 17:00

Hobbs NM, 88242

Project Number: JAY DAN LF Project Manager: Eddie Seay

Fax To: (505) 392-6949

JD - MW #1 H200433-25 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	l Labora	tories					
Inorganic Compounds					_				
Chloride	68.0	4.00	mg/L	1	2021717	НМ	20-Feb-12	4500-Cl-B	
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	
Surrogate: 1-Chlorooctadecane		78.5 %	56.6	-166	2022106	MS	22-Feb-12	8015M	

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Celey D. Kune

%DEC



Analytical Results For:

Eddie Seay Consulting 601 W. Illinois

Project: JAY DAN LF (NM.01.0045)

Smiles

Reported: 09-Mar-12 17:00

Hobbs NM, 88242

Project Number: JAY DAN LF Project Manager: Eddie Seay

Fax To: (505) 392-6949

Total Metals - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2030910 - EPA 3050									·	
Blank (2030910-BLK1)				Prepared &	Analyzed:	07-Mar-12				
Lead	ND	10.0	mg/kg dry			-				
Zinc	ND	0.05	wt. mg/kg dry							
Sinc	ND	0.03	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							
		0.005	wt.							
Cadmium	ND	5.00	mg/kg dry							
			wt.							
Selenium	ND	20.0	mg/kg dry							
7	0.02	0.00	wt.							
Copper	0.03	0.03	mg/kg dry wt.							
3arium	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			
ron	3.9		mg/kg	4.00		98.2	85-115			
Zinc	1.9		mg/kg	2.00		93.0	85-115			
Соррег	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			
Lead	1.99		mg/kg	2.00		99.5	85-115			

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



Eddie Seay Consulting

Project: JAY DAN LF (NM.01.0045)

Reported:

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF

09-Mar-12 17:00

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Total Metals - Quality Control

Cardinal Laboratories

		Reporting	Spike	Source		%REC		RPD	
Analyte	Result	Limit Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2030910 - EPA 3050		·							
LCS (2030910-BS1)			Prepared &	Analyzed:	07-Mar-12				
Selenium	7.68	mg/kg	8.00		96.0	85-115			
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 &	t Analyzed:	01-Mar-12	!			
Mercury	ND	0.100 mg/kg dry							
		wt.							
LCS (2030911-BS1)			Prepared 8	Analyzed:	01-Mar-12	!			
Mercury	1.05	mg/kg	1.00		105	85-115			
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 & Keins



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)

Reported: 09-Mar-12 17:00

Project Number: JAY DAN LF Project Manager: Eddie Seay

Fax To: (505) 392-6949

Inorganic Compounds - Quality Control

Cardinal Laboratories

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

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Celey D. Keens



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: JAY DAN LF (NM.01.0045)

Reported: 09-Mar-12 17:00

nois Project Number: JAY DAN LF

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Inorganic Compounds - Quality Control

Cardinal Laboratories

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

Batch 2022103 - General Prep - Wet Chem

LCS Dup (2022103-BSD1)				Prepared & Aı	nalyzed: 21-Feb-12				
Chloride	416	16.0	mg/kg	400	104	80-120	0.00	20	

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Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)

Reported: 09-Mar-12 17:00 Project Number: JAY DAN LF

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Organic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2021708 - General Prep - Organics										
Blank (2021708-BLK1)				Prepared: 1	17-Feb-12 A	nalyzed: 1	8-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. I	55.5-154			
Surrogate: 1-Chlorooctadecane	54.2		mg/kg	50.0		108	<i>57.6-158</i>			
LCS (2021708-BS1)				Prepared: 1	17-Feb-12 A	nalyzed: 1	8-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	<i>57.6-158</i>			
LCS Dup (2021708-BSD1)				Prepared:	17-Feb-12 A	nalyzed: 1	8-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	<i>57.6-158</i>			
Batch 2022106 - General Prep - Organics										
Blank (2022106-BLK1)				Prepared: 2	21-Feb-12 A	malyzed: 2	2-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		<i>73.7</i>	56.6-166			

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Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242

Project: JAY DAN LF (NM.01.0045)

Reported: 09-Mar-12 17:00

Project Number: JAY DAN LF

Project Manager: Eddie Seay

Fax To: (505) 392-6949

Organic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Attanyte	Result	Limit	Onus	Tevel	Kesun	70REC	Limits	KPD	- Lillit	Notes
Batch 2022106 - General Prep - Organics										
LCS (2022106-BS1)				Prepared: 2	21-Feb-12 A	Analyzed: 2	2-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: 2	21-Feb-12 A	Analyzed: 2	2-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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Eddie Seay Consulting

Project: JAY DAN LF (NM.01.0045)

Reported: 09-Mar-12 17:00

601 W. Illinois Hobbs NM, 88242 Project Number: JAY DAN LF Project Manager: Eddie Seay

Fax To: (505) 392-6949

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 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: 2	21-Feb-12 A	nalyzed: 2	2-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			

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Celey D. Keens



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242 Project: JAY DAN LF (NM.01.0045)

Reported: 09-Mar-12 17:00

Project Number: JAY DAN LF Project Manager: Eddie Seay

Fax To: (505) 392-6949

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2022109 - Volatiles										
LCS (2022109-BS1)				Prepared: 2	21-Feb-12 A	Analyzed: 2	2-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: 2	21-Feb-12 A	Analyzed: 2	2-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			

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Celeg & Keens



Notes and Definitions

GAL Analysis subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.

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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PLEASE NOTE: Liability and Damages. Cardinal's liability and clear's exclusive remedy for any claim arising, whether passed 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 wathed unless made in withing 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, pushess interruptions, loss of use, or loss of profits incurred by client, its subsidiatives, affiliates or successors arising out of or related to the performance of the services renunder by Cardinal, regardless of whether such claims is bessed upon any of the above stated reasons or otherwise. Results related above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Page 38 of 39



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Company Name: Edite San Caus	alling.	BILL TO		ANALYSIS REQUE	ST
Project Manager: Eddin Sam		P.O. #:			
Address: Los w Illindio		Company:			
City: Habbas State: NM Zip: 84242		Attn:			
Phone #: 2 · 2236 Fax #: 3 · 6949		Address			
Project #: Joan LF. Project Owner:	City:				
Project Name: Tay Dan LF (NM. 01, Do45) State: Zip:					
Project Location: NWISW 5.732 T15 R35 Lea Phone #:					
Sampler Name: Eddie Sam		Fax #:	3108		
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