

NM1-_23_ Background Sampling Results May 27, 2015



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

May 27, 2015

JACOB KAMPLAIN

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: J & L LANDFARM

Enclosed are the results of analyses for samples received by the laboratory on 04/29/15 9:00.

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

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BG AREA 1 - SP 1 @ 2.5'	H501114-01	Soil	22-Apr-15 13:19	29-Apr-15 09:00
BG AREA 1 - SP 2 @ 2.5'	H501114-02	Soil	22-Apr-15 13:30	29-Apr-15 09:00
BG AREA 1 - SP 3 @ 2.5'	H501114-03	Soil	22-Apr-15 13:37	29-Apr-15 09:00
BG AREA 1 - SP 4 @ 2.5'	H501114-04	Soil	22-Apr-15 13:45	29-Apr-15 09:00
BG AREA 1 - SP 5 @ 2.5'	H501114-05	Soil	22-Apr-15 15:00	29-Apr-15 09:00
BG AREA 1 - SP 6 @ 2.5'	H501114-06	Soil	22-Apr-15 14:10	29-Apr-15 09:00
BG AREA 1 - SP 7 @ 2.5'	H501114-07	Soil	22-Apr-15 15:10	29-Apr-15 09:00
BG AREA 1 - SP 8 @ 2.5'	H501114-08	Soil	22-Apr-15 15:25	29-Apr-15 09:00
BG AREA 1 - SP 9 @ 2.5'	H501114-09	Soil	23-Apr-15 08:30	29-Apr-15 09:00
BG AREA 1 - SP 10 @ 2.5'	H501114-10	Soil	23-Apr-15 08:40	29-Apr-15 09:00
BG AREA 2 - SP 1 @ 2.5'	H501114-11	Soil	23-Apr-15 12:30	29-Apr-15 09:00
BG AREA 2 - SP 2 @ 2.5'	H501114-12	Soil	23-Apr-15 12:40	29-Apr-15 09:00
BG AREA 2 - SP 3 @ 2.5'	H501114-13	Soil	23-Apr-15 13:00	29-Apr-15 09:00
BG AREA 2 - SP 4 @ 2.5'	H501114-14	Soil	23-Apr-15 13:10	29-Apr-15 09:00
BG AREA 2 - SP 5 @ 2.5'	H501114-15	Soil	23-Apr-15 13:40	29-Apr-15 09:00
BG AREA 2 - SP 6 @ 2.5'	H501114-16	Soil	23-Apr-15 13:50	29-Apr-15 09:00
BG AREA 2 - SP 7 @ 2.5'	H501114-17	Soil	23-Apr-15 14:00	29-Apr-15 09:00
BG AREA 2 - SP 8 @ 2.5'	H501114-18	Soil	23-Apr-15 14:10	29-Apr-15 09:00
BG AREA 2 - SP 9 @ 2.5'	H501114-19	Soil	23-Apr-15 14:30	29-Apr-15 09:00
BG AREA 2 - SP 10 @ 2.5'	H501114-20	Soil	23-Apr-15 14:40	29-Apr-15 09:00
BG AREA 3 - SP 1 @ 2.5'	H501114-21	Soil	23-Apr-15 09:00	29-Apr-15 09:00
BG AREA 3 - SP 2 @ 2.5'	H501114-22	Soil	23-Apr-15 09:30	29-Apr-15 09:00
BG AREA 3 - SP 3 @ 2.5'	H501114-23	Soil	23-Apr-15 09:20	29-Apr-15 09:00
BG AREA 3 - SP 4 @ 2.5'	H501114-24	Soil	23-Apr-15 09:10	29-Apr-15 09:00
BG AREA 3 - SP 5 @ 2.5'	H501114-25	Soil	23-Apr-15 09:40	29-Apr-15 09:00
BG AREA 3 - SP 6 @ 2.5'	H501114-26	Soil	23-Apr-15 09:50	29-Apr-15 09:00
BG AREA 3 - SP 7 @ 2.5'	H501114-27	Soil	23-Apr-15 10:05	29-Apr-15 09:00

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BG AREA 3 - SP 8 @ 2.5'	H501114-28	Soil	23-Apr-15 10:11	29-Apr-15 09:00
BG AREA 3 - SP 9 @ 2.5'	H501114-29	Soil	23-Apr-15 10:30	29-Apr-15 09:00
BG AREA 3 - SP 10 @ 2.5'	H501114-30	Soil	23-Apr-15 10:40	29-Apr-15 09:00

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Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 1 @ 2.5'

11501114-01 (Soil)

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

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5042905	AP	29-Apr-15	4500-Cl-B	
pH*	8.40		0.100	pH Units	1	5050401	AP	04-May-15	9045	
Phenols	<2.7		2.7	mg/kg dry wt.	1	5052707	CK	07-May-15	EPA9065	SUB-AL
Sulfate	<40.0		40.0	mg/kg	4	5050703	AP	12-May-15	375.4	

Organic Compounds

TPH 418.1	17.8	2.70	20.0	mg/kg	2	5050504	CK	18-May-15	418.1	J
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Radionuclides

Radium-226	<0.40		0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052703	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
Surrogate: Tetrachloro-meta-xylene			47.4 %	35-140		5052703	CK	01-May-15	8082	
Surrogate: Decachlorobiphenyl			65.7 %	35-140		5052703	CK	01-May-15	8082	

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 1 @ 2.5'
H501114-01 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	01-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Surrogate: Dibromofluoromethane			97.1 %	30.8-114		5043001	CK	01-May-15	8260	
Surrogate: Toluene-d8			99.2 %	93.7-121		5043001	CK	01-May-15	8260	
Surrogate: 4-Bromofluorobenzene			95.3 %	57.9-154		5043001	CK	01-May-15	8260	

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	

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Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
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BG AREA 1 - SP 1 @ 2.5'

H501114-01 (Soil)

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

Semivolatile Organic Compounds by GCMS

Anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Carbazole	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	J
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
S surrogate: Nitrobenzene-d5			61.7 %	20.4-109		5050305	CK	08-May-15	8270C	
S surrogate: 2-Fluorobiphenyl			57.3 %	23.4-133		5050305	CK	08-May-15	8270C	
S surrogate: Terphenyl-d14			73.8 %	38.4-163		5050305	CK	08-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505074	KLJ	06-May-15	EPA9012 B	
% Dry Solids	91.8			%	1	B505011	LLG	04-May-15	EPA160.3/25 10C	HI

Soluble (DI Water Extraction)

Fluoride	2.90	0.240	1.09	mg/kg dry	4	B505119	ABP	14-May-15	4500-F- C	
Nitrate/Nitrite as N	0.380	0.041	0.120	mg/kg dry	4	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.119	0.021	0.080	mg/kg dry	4	B505070	KLJ	07-May-15	EPA353.2	

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BG AREA 1 - SP 1 @ 2.5'
H501114-01 (Soil)

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

Total Metals by ICP

Barium	92.5	0.191	1.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Iron	6910	3.85	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Manganese	73.3	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	26.0	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	3.30	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	0.103	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Chromium	5.05	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Copper	3.36	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	4.57	0.0565	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	<0.374	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Silver	0.0536	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Uranium	0.220	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	

Total Mercury by CVAA

Mercury	0.0119	0.0112	0.103	mg/kg dry	475	B505056	JGS	08-May-15	EPA7471	Ja
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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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BG AREA 1 - SP 2 @ 2.5'
H501114-02 (Soil)

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

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5042914	AP	03-May-15	4500-Cl-B	
pH*	8.57		0.100	pH Units	1	5050403	AP	04-May-15	9045	
Phenols	6.2		2.7	mg/kg dry wt.	1	5052707	CK	07-May-15	EPA9065	SUB-AL
Sulfate	<40.0		40.0	mg/kg	4	5050703	AP	12-May-15	375.4	

Organic Compounds

TPH 418.1	12.0	2.70	20.0	mg/kg	2	5050504	CK	18-May-15	418.1	J
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Radionuclides

Radium-226	<0.40		0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052703	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	

Surrogate: Tetra chloro-meta-xylene

Surrogate: Decachlorobiphenyl

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	

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Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 2 @ 2.5'
H501114-02 (Soil)

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

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	01-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Surrogate: 1-Bromofluoromethane			99.2 %	80.8-114		5043001	CK	01-May-15	8260	
Surrogate: Toluene-d8			101 %	83.7-121		5043001	CK	01-May-15	8260	
Surrogate: 4-Bromofluorobenzene			96.3 %	57.9-154		5043001	CK	01-May-15	8260	

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 2 @ 2.5'
H501114-02 (Soil)

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

Semivolatile Organic Compounds by GCMS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Pyrene	0.021	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	J
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	J
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	10	5050305	CK	08-May-15	8270C	
S surrogate: Nitrobenzene-d5			73.1 %		20.4-109	5050305	CK	08-May-15	8270C	
S surrogate: 2-Fluorobiphenyl			67.9 %		23.4-133	5050305	CK	08-May-15	8270C	
S surrogate: Terphenyl-d14			88.5 %		38.4-163	5050305	CK	08-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505074	KLJ	06-May-15	EPA9012 B	
% Dry Solids	93.1			%	1	B505011	LLG	04-May-15	EPA160.3/25 40C	H1

Soluble (DI Water Extraction)

Fluoride	1.59	0.236	1.07	mg/kg dry	4	B505119	ABP	14-May-15	1500-F-C	
Nitrate/Nitrite as N	0.278	0.041	0.120	mg/kg dry	4	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.180	0.021	0.080	mg/kg dry	4	B505070	KLJ	07-May-15	EPA353.2	

Total Metals by ICP

Barium	78.4	0.191	1.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Iron	5040	3.85	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BG AREA 1 - SP 2 @ 2.5'
H501114-02 (Soil)

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

Total Metals by ICP

Manganese	63.7	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	21.1	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	2.91	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	0.0727	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Chromium	4.24	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Copper	2.77	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	3.93	0.0565	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	<0.374	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Silver	0.0419	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Uranium	0.173	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	

Total Mercury by CVAA

Mercury	<0.0111	0.0111	0.103	mg/kg dry	480	B505056	JGS	08-May-15	EPA7471	
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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 3 @ 2.5'
H50H14-03 (Soil)

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

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5042914	AP	03-May-15	4500-Cl-B	
pH*	8.55		0.100	pH Units	1	5050403	AP	04-May-15	9045	
Phenols	<2.7		2.7	mg/kg dry wt.	1	5052707	CK	07-May-15	EPA9065	SUB-AL
Sulfate	<40.0		40.0	mg/kg	4	5050703	AP	12-May-15	375.4	

Organic Compounds

TPH 418.1	14.4	2.70	20.0	mg/kg	2	5050504	CK	18-May-15	418.1	J
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Radionuclides

SUB-RS

Radium-226	0.8 ± 0.2			pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	0.8 ± 0.2			pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

SUB-SS

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
Surrogate: Tetrachloro-meta-xylene			45.4 %	35-140		5052703	CK	01-May-15	8082	
Surrogate: Decachlorobiphenyl			72.4 %	35-140		5052703	CK	01-May-15	8082	

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 3 @ 2.5'
11501114-03 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	01-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Surrogate: Dibromofluoromethane			97.2 %	80.8-114		5043001	CK	01-May-15	8260	
Surrogate: Toluene-d8			103 %	83.7-121		5043001	CK	01-May-15	8260	
Surrogate: 4-Bromofluorobenzene			104 %	57.9-154		5043001	CK	01-May-15	8260	

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 3 @ 2.5'
H501114-03 (Soil)

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

Semivolatile Organic Compounds by GC/MS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	J
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Surrogate: N-methylbenzene-d5			89.2 %	20.4-109		5050305	CK	08-May-15	8270C	
Surrogate: 2,4-dibromobiphenyl			85.9 %	23.4-133		5050305	CK	08-May-15	8270C	
Surrogate: Terphenyl-d14			111 %	38.4-163		5050305	CK	08-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505074	KLJ	06-May-15	EPA9012 B	
% Dry Solids	91.4			%	1	B505011	LLG	04-May-15	EPA160.3/25.40C	III

Soluble (DI Water Extraction)

Fluoride	3.57	0.241	1.09	mg/kg dry	4	B505119	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	0.230	0.041	0.120	mg/kg dry	4	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.228	0.021	0.080	mg/kg dry	4	B505070	KLJ	07-May-15	EPA353.2	

Total Metals by ICP

Barium	58.3	0.191	1.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Iron	13100	3.85	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

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Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BG AREA 1 - SP 3 @ 2.5'
H501114-03 (Soil)

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

Total Metals by ICP

Manganese	60.1	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	22.7	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	3.40	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	0.0579	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Chromium	6.88	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Copper	2.89	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	5.79	0.0565	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	<0.374	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Silver	0.0786	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Uranium	0.164	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	

Total Mercury by CVAA

Mercury	0.0164	0.0118	0.109	mg/kg dry	500	B505056	JGS	08-May-15	EPA7471	Ja
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 4 @ 2.5'
11501114-04 (Soil)

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

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5042914	AP	03-May-15	4500-Cl-B	
pH*	8.62		0.100	pH Units	1	5050403	AP	04-May-15	9045	
Phenols	<2.7		2.7	mg/kg dry wt.	1	5052707	CK	07-May-15	EPA9065	SUB-AL
Sulfate	54.0		40.0	mg/kg	4	5050703	AP	12-May-15	375.4	

Organic Compounds

TPH 418.1	18.7	2.70	20.0	mg/kg	2	5050504	CK	18-May-15	418.1	J
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Radionuclides

Radium-226	<0.40		0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052703	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	

Surrogate: Tetrachloro-meta-xylene

58.6 % 35-140 5052703 CK 01-May-15 8082

Surrogate: Decachlorobiphenyl

75.1 % 35-140 5052703 CK 01-May-15 8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 4 @ 2.5'
H501114-04 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	01-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Surrogate: Dibromofluoromethane			92.8 %	30.8-114	5043001	CK	01-May-15	8260		
Surrogate: Toluene-d8			100 %	83.7-121	5043001	CK	01-May-15	8260		
Surrogate: 4-Bromofluorobenzene			95.4 %	57.9-154	5043001	CK	01-May-15	8260		

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	

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Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 4 @ 2.5'
11501114-04 (Soil)

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

Semivolatile Organic Compounds by GC/MS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Pyrene	0.021	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	J
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	J
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Surrogate: Nitrobenzene-d5			36.3 %	20.4-109		5050305	CK	08-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			30.1 %	23.4-133		5050305	CK	08-May-15	8270C	
Surrogate: Terphenyl-d14			100 %	38.4-163		5050305	CK	08-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505074	KLJ	06-May-15	EPA9012 B	
% Dry Solids	91.7			%	1	B505011	LLG	04-May-15	EPA160.3/25 40C	HI

Soluble (DI Water Extraction)

Fluoride	3.97	0.240	1.09	mg/kg dry	4	B505119	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	1.87	0.041	0.120	mg/kg dry	4	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.122	0.021	0.080	mg/kg dry	4	B505070	KLJ	07-May-15	EPA353.2	

Total Metals by ICP

Barium	70.2	0.191	1.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Iron	8610	3.85	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BG AREA 1 - SP 4 @ 2.5'
H501114-04 (Soil)

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

Total Metals by ICP

Manganese	64.1	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	22.0	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	3.57	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	0.0558	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Chromium	6.29	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Copper	2.85	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	5.78	0.0565	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	<0.374	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Silver	0.0353	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Uranium	0.154	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	

Total Mercury by CVAA

Mercury	<0.0124	0.0124	0.114	mg/kg dry	525	B505056	JGS	08-May-15	EPA7471	
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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 5 @ 2.5'

11501114-05 (Soil)

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

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5042914	AP	03-May-15	4500-Cl-B	
pH*	8.44		0.100	pH Units	1	5050403	AP	04-May-15	9045	
Phenols	<2.6		2.6	mg/kg dry wt.	1	5052707	CK	07-May-15	EPA9065	
Sulfate	50.0		40.0	mg/kg	4	5050703	AP	12-May-15	375.4	SUB-AL

Organic Compounds

TPH 418.1	9.48	2.70	20.0	mg/kg	2	5050504	CK	18-May-15	418.1	
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Radionuclides

Radium-226	<0.40		0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052703	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	

Surrogate: Tetrachloro-meta-xylene

58.9 % 35-140 5052703 CK 01-May-15 8082

Surrogate: Decachlorobiphenyl

74.5 % 35-140 5052703 CK 01-May-15 8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	

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Celestine

Celestine D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 5 @ 2.5'
H501114-05 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	01-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Surrogate: Dibromofluoromethane			96.0 %	80.8-114	5043001	CK	01-May-15	8260		
Surrogate: Toluene-d8			99.0 %	93.7-121	5043001	CK	01-May-15	8260		
Surrogate: 1-Bromofluorobenzene			94.5 %	57.9-154	5043001	CK	01-May-15	8260		

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 5 @ 2.5'

H501114-05 (Soil)

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

Semivolatile Organic Compounds by GC/MS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Surrogate: Nitrobenzene-d5			83.9 %	20.4-109	5050305	CK	08-May-15	8270C		
Surrogate: 2-Fluorobiphenyl			80.4 %	23.4-133	5050305	CK	08-May-15	8270C		
Surrogate: Terphenyl-d14			103 %	38.4-163	5050305	CK	08-May-15	8270C		

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505074	KLJ	06-May-15	EPA9012 B	
% Dry Solids	95.2			%	1	B505011	LLG	04-May-15	EPA160.3/25-10C	111

Soluble (DI Water Extraction)

Fluoride	3.26	0.231	1.05	mg/kg dry	4	B505119	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	8.91	0.041	0.120	mg/kg dry	4	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.126	0.021	0.080	mg/kg dry	4	B505070	KLJ	07-May-15	EPA353.2	

Total Metals by ICP

Barium	56.9	0.191	1.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Iron	7490	3.85	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

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Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BG AREA 1 - SP 5 @ 2.5'
H501114-05 (Soil)

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

Total Metals by ICP

Manganese	143	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	19.9	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by IC PMS

Arsenic	2.62	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	0.0627	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Chromium	5.79	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Copper	3.83	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	5.73	0.0565	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	<0.374	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Silver	0.0398	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Uranium	0.200	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja

Total Mercury by CVAA

Mercury	0.0131	0.0113	0.105	mg/kg dry	500	B505056	JGS	08-May-15	EPA7471	Ja
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Celestine D. Keene

Celestine D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 6 @ 2.5'
H501114-06 (Soil)

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

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5042914	AP	03-May-15	4500-Cl-B	
pH*	8.52		0.100	pH Units	1	5050403	AP	04-May-15	9045	
Phenols	8.6		2.6	mg/kg dry wt.	1	5052707	CK	07-May-15	EPA9065	SUB-AL
Sulfate	<40.0		40.0	mg/kg	4	5050703	AP	12-May-15	375.4	

Organic Compounds

TPH 418.1	8.34	2.70	20.0	mg/kg	2	5050504	CK	18-May-15	418.1	J
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Radionuclides

SUB-RS

Radium-226	<0.40		0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

SUB-SS

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
Surrogate: Tetrachloro-meta-xylene			64.3 %	35-140		5052703	CK	01-May-15	8082	
Surrogate: Decachlorobiphenyl			78.7 %	35-140		5052703	CK	01-May-15	8082	

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 6 @ 2.5'

11501114-06 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	01-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Surrogate: Dibromofluoromethane			101 %		50.8-114	5043001	CK	01-May-15	8260	
Surrogate: Toluene-d8			99.0 %		83.7-121	5043001	CK	01-May-15	8260	
Surrogate: 4-Bromofluorobenzene			98.6 %		57.9-154	5043001	CK	01-May-15	8260	

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 6 @ 2.5'

H501114-06 (Soil)

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

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Surrogate: Nitrobenzene-d5			85.9 %	20.4-109		5050305	CK	08-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			85.5 %	23.4-133		5050305	CK	08-May-15	8270C	
Surrogate: Terphenyl-d14			119 %	38.4-163		5050305	CK	08-May-15	8270C	

Green Analytical Laboratories**General Chemistry**

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505074	KLJ	06-May-15	EPA9012 B	
% Dry Solids	93.7			%	1	B505011	LLG	04-May-15	EPA160.3/25 40C	H1

Soluble (DI Water Extraction)

Fluoride	1.16	0.235	1.07	mg/kg dry	4	B505119	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	0.385	0.041	0.120	mg/kg dry	4	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.251	0.021	0.080	mg/kg dry	4	B505070	KLJ	07-May-15	EPA353.2	

Total Metals by ICP

Barium	83.8	0.191	1.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Iron	6250	3.85	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 6 @ 2.5'
H501114-06 (Soil)

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

Total Metals by ICP

Manganese	73.0	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	23.4	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	3.31	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	0.0944	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Chromium	5.58	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Copper	3.41	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	4.53	0.0565	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	<0.374	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Silver	0.0313	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Uranium	0.231	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja

Total Mercury by CVAA

Mercury	<0.0109	0.0109	0.101	mg/kg dry	475	B505056	JGS	08-May-15	EPA7471	
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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 7 @ 2.5'
H501114-07 (Soil)

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

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	5042914	AP	03-May-15	4500-Cl-B	
pH*	7.85		0.100	pH Units	1	5050403	AP	04-May-15	9045	
Phenols	<2.7		2.7	mg/kg dry wt.	1	5052707	CK	07-May-15	EPA9065	SUB-AL
Sulfate	89.0		40.0	mg/kg	4	5050703	AP	12-May-15	375.4	

Organic Compounds

TPH 418.1	19.7	2.70	20.0	mg/kg	2	5050504	CK	18-May-15	418.1	J
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Radionuclides

Radium-226	<0.40		0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/EC

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052703	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	

Surrogate: Tetrachloro-meta-xylene

65.3 % 35-140 5052703 CK 01-May-15 8082

Surrogate: Decachlorobiphenyl

81.5 % 35-140 5052703 CK 01-May-15 8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	

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Creley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 7 @ 2.5'
11501114-07 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	01-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Surrogate: Dibromofluoromethane			96.8 %	80.8-114		5043001	CK	01-May-15	8260	
Surrogate: Toluene-d8			101 %	93.7-121		5043001	CK	01-May-15	8260	
Surrogate: 4-Bromofluorobenzene			96.0 %	57.9-154		5043001	CK	01-May-15	8260	

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 7 @ 2.5'
H501114-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Semivolatile Organic Compounds by GC/MS**

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Pyrene	0.021	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	J
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	J
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Surrogate: Nitrobenzene-d5			95.6 %	20.4-109		5050305	CK	08-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			89.5 %	23.4-133		5050305	CK	08-May-15	8270C	
Surrogate: Terphenyl-d14			112 %	38.4-163		5050305	CK	08-May-15	8270C	

Green Analytical Laboratories**General Chemistry**

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505075	KLJ	06-May-15	EPA9012 B	
% Dry Solids	93.4			%	1	B505011	LLG	04-May-15	EPA160.3/25-10C	111

Soluble (DI Water Extraction)

Fluoride	6.13	0.235	1.07	mg/kg dry	4	B505119	ABP	14-May-15	4500-F- C	
Nitrate/Nitrite as N	71.2	0.811	2.40	mg/kg dry	80	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.067	0.021	0.080	mg/kg dry	4	B505070	KLJ	07-May-15	EPA353.2	Ja

Total Metals by ICP

Barium	216	0.191	1.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Iron	5350	3.85	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 7 @ 2.5'
H501114-07 (Soil)

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

Total Metals by ICP

Manganese	46.7	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	25.1	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	3.10	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	0.0729	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Chromium	4.45	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Copper	1.82	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	3.37	0.0565	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	<0.374	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Silver	<0.0242	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Uranium	0.270	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	

Total Mercury by CVAA

Mercury	<0.0118	0.0118	0.109	mg/kg dry	510	B505056	JGS	08-May-15	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 8 @ 2.5'
H501114-08 (Soil)

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

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5042914	AP	03-May-15	4500-Cl-B	
pH*	8.22		0.100	pH Units	1	5050505	AP	05-May-15	9045	
Phenols	<2.7		2.7	mg/kg dry wt	1	5052707	CK	07-May-15	EPA9065	
Sulfate	56.0		40.0	mg/kg	4	5050703	AP	12-May-15	375.4	SUB-AL

Organic Compounds

TPH 418.1	15.8	2.70	20.0	mg/kg	2	5050504	CK	18-May-15	418.1	J
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Radionuclides

Radium-226	<0.40		0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052703	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	

Surrogate: Tetrachloro-meta-xylene

59.1 % 35-140 5052703 CK 01-May-15 8082

Surrogate: Decachlorobiphenyl

70.8 % 35-140 5052703 CK 01-May-15 8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 8 @ 2.5'
H501114-08 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	01-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Surrogate: Dibromofluoromethane			99.9 %	80.8-114		5043001	CK	01-May-15	8260	
Surrogate: Toluene-d8			103 %	83.7-121		5043001	CK	01-May-15	8260	
Surrogate: 4-Bromofluorobenzene			101 %	57.9-154		5043001	CK	01-May-15	8260	

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	

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* = Accredited Analyte

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 8 @ 2.5'

H501114-08 (Soil)

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

Semivolatile Organic Compounds by GC/MS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Pyrene	0.021	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	J
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	J
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Surrogate: Nitrobenzene-d5			88.4 %	20.4-109		5050305	CK	08-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			87.3 %	23.4-133		5050305	CK	08-May-15	8270C	
Surrogate: Terphenyl-d11			113 %	38.4-163		5050305	CK	08-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505075	KLJ	06-May-15	EPA9012 B	
% Dry Solids	92.8			%	1	B505011	LLG	04-May-15	EPA160.3/25-40C	III

Soluble (DI Water Extraction)

Fluoride	2.69	0.237	1.08	mg/kg dry	4	B505119	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	0.991	0.041	0.120	mg/kg dry	4	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.474	0.021	0.080	mg/kg dry	4	B505070	KLJ	07-May-15	EPA353.2	

Total Metals by ICP

Barium	46.8	0.191	1.00	mg/kg dry	100	B505052	JCS	07-May-15	EPA6010 B	
Iron	9950	3.85	5.00	mg/kg dry	100	B505052	JCS	07-May-15	EPA6010 B	

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Cecley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 8 @ 2.5'

H501114-08 (Soil)

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

Total Metals by ICP

Manganese	66.3	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	22.0	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	3.12	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	<0.0474	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Chromium	6.98	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Copper	3.06	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	5.58	0.0565	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	<0.374	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Silver	0.0496	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Uranium	0.176	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	

Total Mercury by CVA

Mercury	0.0157	0.0113	0.105	mg/kg dry	485	B505056	JGS	08-May-15	EPA7471	Ja
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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 9 @ 2.5'
H501114-09 (Soil)

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

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5042914	AP	03-May-15	4500-C1-B	
pH*	8.20		0.100	pH Units	1	5050505	AP	05-May-15	9045	
Phenols	<2.6		2.6	mg/kg dry wt.	1	5052707	CK	07-May-15	EPA9065	SUB-AL
Sulfate	<40.0		40.0	mg/kg	4	5050703	AP	12-May-15	375.4	

Organic Compounds

TPH 418.1	<2.70	2.70	20.0	mg/kg	2	5050504	CK	18-May-15	418.1	
Radionuclides										SUB-RS
Radium-226	<0.40		0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052703	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
Surrogate: Tetrachloro-meta-xylene			46.4%	35-140		5052703	CK	01-May-15	8082	
Surrogate: Decachlorobiphenyl			74.8%	35-140		5052703	CK	01-May-15	8082	

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	

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Celestine Keene

Celestine D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP9 @ 2.5'
11501114-09 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	01-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Surrogate: Dibromofluoromethane			101 %	80.8-114		5043001	CK	01-May-15	8260	
Surrogate: Toluene-d8			98.7 %	83.7-121		5043001	CK	01-May-15	8260	
Surrogate: 4-Bromofluorobenzene			94.5 %	57.9-154		5043001	CK	01-May-15	8260	

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

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27-May-15 16:13

BG AREA 1 - SP 9 @ 2.5'
H501114-09 (Soil)

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

Semivolatile Organic Compounds by GC/MS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Pyrene	0.021	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	J
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	J
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Surrogate: Nitrobenzene-d5			84.1 %	20.4-109		5050305	CK	08-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			85.9 %	23.4-133		5050305	CK	08-May-15	8270C	
Surrogate: Terphenyl-d14			118 %	38.4-163		5050305	CK	08-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505075	KLJ	06-May-15	EPA9012 B	
% Dry Solids	94.7			%	1	B505011	LLG	04-May-15	EPA160.3/25 10C	HI

Soluble (DI Water Extraction)

Fluoride	1.07	0.232	1.06	mg/kg dry	4	B505119	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	0.469	0.041	0.120	mg/kg dry	4	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.044	0.021	0.080	mg/kg dry	4	B505070	KLJ	07-May-15	EPA353.2	Ja

Total Metals by ICP

Barium	40.9	0.191	1.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Iron	7460	3.85	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

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Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BG AREA 1 - SP 9 @ 2.5'
11501114-09 (Soil)

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

Total Metals by ICP

Manganese	90.8	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	18.9	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	2.27	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	<0.0474	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Chromium	5.68	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Copper	3.10	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	4.64	0.0565	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	<0.374	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Silver	0.0448	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Uranium	0.180	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	

Total Mercury by CVAA

Mercury	0.0140	0.0116	0.108	mg/kg dry	510	B505056	JGS	08-May-15	EPA7471	Ja
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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 10 @ 2.5'
H501114-10 (Soil)

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

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5042914	AP	03-May-15	4500-Cl-B	
pH*	8.29		0.100	pH Units	1	5050505	AP	05-May-15	9045	
Phenols	<2.6		2.6	mg/kg dry wt.	1	5052707	CK	07-May-15	EPA9065	
Sulfate	126		40.0	mg/kg	4	5050703	AP	12-May-15	375.4	SUB-AL

Organic Compounds

TPH 418.1	4.72	2.70	20.0	mg/kg	2	5050504	CK	18-May-15	418.1	J
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Radionuclides

Radium-226	<0.40		0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052703	CK	01-May-15	8082	SUB-S5
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	

Surrogate: Tetrachloro-meta-xylene

Surrogate: Decachlorobiphenyl

61.9 %	35-140	5052703	CK	01-May-15	8082
75.7 %	35-140	5052703	CK	01-May-15	8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 10 @ 2.5'

11501114-10 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	01-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
S surrogate: Dibromofluoromethane			97.8 %	80.8-114	5043001	CK	01-May-15	8260		
S surrogate: Toluene-d8			97.0 %	83.7-121	5043001	CK	01-May-15	8260		
S surrogate: 4-Bromofluorobenzene			99.5 %	57.9-154	5043001	CK	01-May-15	8260		

Semivolatile Organic Compounds by GC/MS

Naphthalene	0.019	0.002	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	J
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	

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Ceiley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 10 @ 2.5'
H501114-10 (Soil)

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

Semivolatile Organic Compounds by GC/MS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Surrogate: Nitrobenzene-d5			86.5 %	20.4-109		5050305	CK	08-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			79.3 %	23.4-133		5050305	CK	08-May-15	8270C	
Surrogate: Terphenyl-d14			102 %	38.4-163		5050305	CK	08-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505075	KLJ	06-May-15	EPA9012 B	
% Dry Solids	96.1			%	1	B505011	LLG	04-May-15	EPA160.3/25 40C	III

Soluble (DI Water Extraction)

Fluoride	5.62	0.229	1.04	mg/kg dry	4	B505119	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	1.04	0.041	0.120	mg/kg dry	4	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.067	0.021	0.080	mg/kg dry	1	B505070	KLJ	07-May-15	EPA353.2	Ja

Total Metals by ICP

Barium	459	0.191	1.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Iron	4020	3.85	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 1 - SP 10 @ 2.5'
H501114-10 (Soil)

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

Total Metals by ICP

Manganese	51.6	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	22.2	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	5.87	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	0.0694	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Chromium	4.60	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Copper	3.64	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	2.80	0.0563	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	0.402	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Silver	0.0384	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Uranium	0.649	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	

Total Mercury by CVAA

Mercury	0.0171	0.0116	0.107	mg/kg dry	515	B505056	JGS	08-May-15	EPA7471	Ja
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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 1 @ 2.5'
H501114-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	5042914	AP	03-May-15	4500-Cl-B	
pH*	8.20		0.100	pH Units	1	5050505	AP	05-May-15	9045	
Phenols	4.2		2.6	mg/kg dry wt.	1	5052707	CK	07-May-15	EPA9065	
Sulfate	226		40.0	mg/kg	4	5050703	AP	12-May-15	375.4	SUB-AL
Organic Compounds										
TPH 418.1	11.3	2.70	20.0	mg/kg	2	5050504	CK	18-May-15	418.1	J
Radionuclides										
Radium-226	<0.40		0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
PCBs BY GC/ECD										
PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052703	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
Surrogate: Tetrachloro-meta-xylene			80.5 %	35-140		5052703	CK	01-May-15	8082	
Surrogate: Decachlorobiphenyl			107 %	35-140		5052703	CK	01-May-15	8082	
Volatile Organic Compounds by EPA Method 8260B										
Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	

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* = Accredited Analyte

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Colleen D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 1 @ 2.5'
H50H14-11 (Soil)

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

Cardinal Laboratories

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	01-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
S surrogate: Dibromofluoromethane			98.0 %	\$0.8-114		5043001	CK	01-May-15	8260	
S surrogate: Toluene-d8			102 %	83.7-121		5043001	CK	01-May-15	8260	
S surrogate: 4-Bromofluorobenzene			96.9 %	57.9-154		5043001	CK	01-May-15	8260	

Semivolatile Organic Compounds by GC/MS

Naphthalene	0.018	0.002	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	10	5050305	CK	08-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	

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C. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 1 @ 2.5'

H501114-11 (Soil)

Analyte	Result	NIDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Semivolatile Organic Compounds by GC/MS**

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Pyrene	0.021	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	J
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	J
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Surrogate: Nitrobenzene-d5			78.6 %	20.4-109		5050305	CK	08-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			73.3 %	23.4-133		5050305	CK	08-May-15	8270C	
Surrogate: Terphenyl-d14			97.9 %	38.4-163		5050305	CK	08-May-15	8270C	

Green Analytical Laboratories**General Chemistry**

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505075	KLJ	06-May-15	EPA9012 B	
% Dry Solids	94.8			%	1	B505011	L.L.G.	04-May-15	EPA160.3/25 10C	HI

Soluble (DI Water Extraction)

Fluoride	3.84	0.232	1.05	mg/kg dry	4	B505119	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	5.15	0.041	0.120	mg/kg dry	4	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.070	0.021	0.080	mg/kg dry	4	B505070	KLJ	07-May-15	EPA353.2	Ja

Total Metals by ICP

Barium	199	0.191	1.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Iron	2370	3.85	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

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Celestine

Ceiley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BG AREA 2 - SP 1 @ 2.5'
H501114-11 (Soil)

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

Total Metals by ICP

Manganese	34.6	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	18.8	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	4.43	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	0.0790	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Chromium	2.95	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Copper	2.71	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	1.95	0.0565	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	0.459	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Silver	<0.0242	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Uranium	0.627	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	

Total Mercury by CVA

Mercury	0.0238	0.0109	0.101	mg/kg dry	480	B505056	JGS	08-May-15	EPA7471	Ja
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP2 @ 2.5'
H501H4-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	5042914	AP	03-May-15	4500-Cl-B	
pH*	8.38		0.100	pH Units	1	5050505	AP	05-May-15	9045	
Phenols	<2.6		2.6	mg/kg dry wt	1	5052707	CK	07-May-15	EPA9065	
Sulfate	73.4		40.0	mg/kg	4	5050703	AP	12-May-15	375.4	SUB-AL
Organic Compounds										
TPH 418.1	14.4	2.70	20.0	mg/kg	2	5050504	CK	18-May-15	418.1	J
Radionuclides										
Radium-226	<0.40		0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	HPGE	
Total Radium	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay	
									HPGE	
PCBs BY GC/ECD										
PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052703	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
Surrogate: Tetrachloro-meta-xylene			60.1 %	35-140		5052703	CK	01-May-15	8082	
Surrogate: Decachlorobiphenyl			69.5 %	35-140		5052703	CK	01-May-15	8082	
Volatile Organic Compounds by EPA Method 8260B										
Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

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27-May-15 16:13

BG AREA 2 - SP 2 @ 2.5'
H501114-12 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	01-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Surrogate: Dibromofluoromethane			96.3 %	80.8-114		5043001	CK	01-May-15	8260	
Surrogate: Toluene-d8			99.9 %	83.7-121		5043001	CK	01-May-15	8260	
Surrogate: 1-Bromofluorobenzene			96.5 %	57.9-154		5043001	CK	01-May-15	8260	

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	10	5050305	CK	08-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	

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Coley D. Keene, Lab Director/Quality Manager



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Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 2 @ 2.5'

H501114-12 (Soil)

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

Cardinal Laboratories**Semivolatile Organic Compounds by GCMS**

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Surrogate: Nitrobenzene-d5			89.4 %	20.4-109		5050305	CK	08-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			80.4 %	23.4-133		5050305	CK	08-May-15	8270C	
Surrogate: Terphenyl-d14			104 %	38.4-163		5050305	CK	08-May-15	8270C	

Green Analytical Laboratories**General Chemistry**

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505075	KLJ	06-May-15	EPA9012 B	
% Dry Solids	96.4			%	1	B505011	LLG	04-May-15	EPA160.3/25	HI
									40C	

Soluble (DI Water Extraction)

Fluoride	1.68	0.228	1.04	mg/kg dry	4	B505119	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	0.412	0.041	0.120	mg/kg dry	4	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.142	0.021	0.080	mg/kg dry	4	B505070	KLJ	07-May-15	EPA353.2	

Total Metals by ICP

Barium	70.5	0.191	1.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Potassium	3140	3.85	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

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Colley D. Keene
Colley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 2 @ 2.5'
H501114-12 (Soil)

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

Total Metals by ICP

Manganese	35.8	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	16.9	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	2.48	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	0.0600	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Chromium	2.69	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Copper	2.37	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	1.82	0.0565	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	<0.374	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Silver	<0.0242	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Uranium	0.252	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	

Total Mercury by CVA

Mercury	<0.0108	0.0108	0.0996	mg/kg dry	480	B505056	JGS	08-May-15	EPA7471	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 3 @ 2.5'
H501114-13 (Soil)

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

Chloride	<16.0		16.0	mg/kg	4	5042914	AP	03-May-15	4500-Cl-B	
pH*	8.16		0.100	pH Units	1	5050505	AP	05-May-15	9045	
Phenols	<2.6		2.6	mg/kg dry wt.	1	5052707	CK	07-May-15	EPA9065	
Sulfate	112		40.0	mg/kg	4	5050703	AP	12-May-15	375.4	SUB-AL

Organic Compounds

TPH 418.1	13.3	2.70	20.0	mg/kg	2	5051809	CK	20-May-15	418.1	J
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Radionuclides

Radium-226	<0.40		0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	HPGE	
Total Radium	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay	
									HPGE	

PCBs BY GC/ECD

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052703	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	

Surrogate: Tetrachloro-meta-ylene

Surrogate: Decachlorobiphenyl

67.4 %	35-140	5052703	CK	01-May-15	8082
73.0 %	35-140	5052703	CK	01-May-15	8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043001	CK	01-May-15	8260
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 3 @ 2.5'
H501114-13 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	01-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Surrogate: Dibromofluoromethane			102 %	80.8-114		5043001	CK	01-May-15	8260	
Surrogate: Toluene-d8			97.7 %	83.7-121		5043001	CK	01-May-15	8260	
Surrogate: 4-Bromofluorobenzene			97.5 %	57.9-154		5043001	CK	01-May-15	8260	

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 3 @ 2.5'
H501114-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Semivolatile Organic Compounds by GC/MS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Pyrene	0.021	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050305	CK	08-May-15	8270C	
Surrogate: Nitrobenzene-d5			98.8 %	20.4-109		5050305	CK	08-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			90.5 %	23.4-133		5050305	CK	08-May-15	8270C	
Surrogate: Terphenyl-d14			117 %	38.4-163		5050305	CK	08-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505075	KLJ	06-May-15	EPA9012 B	
% Dry Solids	94.7			%	1	B505011	LLG	04-May-15	EPA160.3/25 10C	III

Soluble (DI Water Extraction)

Fluoride	2.60	0.232	1.06	mg/kg dry	4	B505119	ABP	11-May-15	1500-F-C	
Nitrate/Nitrite as N	4.20	0.041	0.120	mg/kg dry	4	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.118	0.021	0.080	mg/kg dry	4	B505070	KLJ	07-May-15	EPA353.2	

Total Metals by ICP

Barium	141	0.191	1.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Cadmium	2830	3.85	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 3 @ 2.5'
H501114-13 (Soil)

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

Total Metals by ICP

Manganese	34.7	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	19.2	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	4.37	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	0.0551	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Chromium	2.82	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Copper	2.59	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	1.98	0.0565	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	0.389	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Silver	<0.0242	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Uranium	0.422	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	

Total Mercury by CVAA

Mercury	0.0188	0.0120	0.111	mg/kg dry	525	B505056	JGS	08-May-15	EPA7471	Ja
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 4 @ 2.5'

H501114-14 (Soil)

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

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	01-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Surrogate: Dibromofluoromethane			98.0 %	80.8-114	5043001	CK	01-May-15	8260		
Surrogate: Toluene-d8			101 %	83.7-121	5043001	CK	01-May-15	8260		
Surrogate: 4-Bromofluorobenzene			99.8 %	57.9-154	5043001	CK	01-May-15	8260		

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050305	MS	11-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	

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Cardinal Laboratories

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 4 @ 2.5'
H501114-14 (Soil)

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

Semivolatile Organic Compounds by GC/MS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Pyrene	0.021	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	J
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	J
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Surrogate: Nitrobenzene-d5			81.4 %	20.4-109		5050305	MS	11-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			82.6 %	23.4-133		5050305	MS	11-May-15	8270C	
Surrogate: Terphenyl-d14			97.7 %	38.4-163		5050305	MS	11-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505076	KLJ	06-May-15	EPA9012 B	
% Dry Solids	94.9			%	1	B505011	LLG	04-May-15	EPA160.3/25 10C	111

Soluble (DI Water Extraction)

Fluoride	5.01	0.232	1.05	mg/kg dry	4	B505119	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	3.58	0.041	0.120	mg/kg dry	4	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.120	0.021	0.080	mg/kg dry	4	B505070	KLJ	07-May-15	EPA353.2	

Total Metals by ICP

Barium	251	0.191	1.00	mg/kg dry	100	B505052	JCS	07-May-15	EPA6010 B	
Iron	2250	3.85	5.00	mg/kg dry	100	B505052	JCS	07-May-15	EPA6010 B	

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Cately D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 4 @ 2.5'
H501114-14 (Soil)

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

Total Metals by ICP

Manganese	29.7	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	19.0	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	4.75	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	0.0686	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Chromium	2.59	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Copper	2.45	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	1.85	0.0565	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	0.454	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Silver	<0.0242	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Uranium	0.565	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	

Total Mercury by CVA

Mercury	0.0177	0.0116	0.107	mg/kg dry	510	B505056	JGS	08-May-15	EPA7471	Ja
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Celcy D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 5 @ 2.5'

11501114-15 (Soil)

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

Chloride	32.0		16.0	mg/kg	4	5042914	AP	03-May-15	4500-Cl-B	
pH*	8.22		0.100	pH Units	1	5050505	AP	05-May-15	9045	
Phenols	<2.6		2.6	mg/kg dry wt.	1	5052707	CK	07-May-15	EPA9065	SUB-AL
Sulfate	191		40.0	mg/kg	4	5050703	AP	12-May-15	375.4	

Organic Compounds

TPH 418.1	26.2	2.70	20.0	mg/kg	2	5051809	CK	20-May-15	418.1	
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Radionuclides

Radium-226	0.5 ± 0.2			pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	0.5 ± 0.2			pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052703	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	

Surrogate: Tetrachloro-metaxylene

68.9 % 35-140 5052703 CK 01-May-15 8082

Surrogate: Decachlorobiphenyl

80.6 % 35-140 5052703 CK 01-May-15 8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 5 @ 2.5'
11501114-15 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	01-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Surrogate: Dibromofluoromethane			97.3 %	80.8-114		5043001	CK	01-May-15	8260	
Surrogate: Toluene-d8			101 %	83.7-121		5043001	CK	01-May-15	8260	
Surrogate: 4-Bromofluorobenzene			99.7 %	57.9-154		5043001	CK	01-May-15	8260	

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050305	MS	11-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 5 @ 2.5'
H50H14-15 (Soil)

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

Semivolatile Organic Compounds by GC/MS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Pyrene	0.021	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	J
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	J
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
S surrogate: Nitrobenzene-d5			103 %	20.4-109		5050305	MS	11-May-15	8270C	
S surrogate: 2-Fluorobiphenyl			83.6 %	23.4-133		5050305	MS	11-May-15	8270C	
S surrogate: Terphenyl-d14			112 %	38.4-163		5050305	MS	11-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505076	KLJ	06-May-15	EPA9012 B	
% Dry Solids	95.6			%	1	B505011	LLG	04-May-15	EPA160.3/25-40C	HI

Soluble (DI Water Extraction)

Fluoride	3.95	0.230	1.05	mg/kg dry	4	B505119	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	1.49	0.041	0.120	mg/kg dry	4	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.114	0.021	0.080	mg/kg dry	4	B505070	KLJ	07-May-15	EPA353.2	

Total Metals by ICP

Barium	423	0.191	1.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Iron	2700	3.85	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

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[Signature]

Celey D. Keene, Lab Director/Quality Manager



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Fax To: (575) 396-1429

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BG AREA 2 - SP 5 @ 2.5'
H501114-15 (Soil)

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

Total Metals by ICP

Manganese	36.3	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	20.1	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	4.46	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	0.0631	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Chromium	2.67	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Copper	2.79	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	1.85	0.0565	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	0.561	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Silver	<0.0242	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Uranium	0.608	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	

Total Mercury by CVAA

Mercury	0.0165	0.0115	0.107	mg/kg dry	510	B505056	JGS	08-May-15	EPA7471	Ja
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Cardinal Laboratories

*=Accredited Analyte

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Ceiley D. Keene, Lab Director/Quality Manager



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P.O. Box 301
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Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 6 @ 2.5'
H501114-16 (Soil)

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

Chloride	<16.0		16.0	mg/kg	4	5042914	AP	03-May-15	4500-CL-B	
pH*	8.09		0.100	pH Units	1	5050505	AP	05-May-15	9045	
Phenols	<2.7		2.7	mg/kg dry wt	1	5052707	CK	07-May-15	EPA9065	
Sulfate	71.0		40.0	mg/kg	4	5050703	AP	12-May-15	375.4	SUB-AL

Organic Compounds

TPH 418.1	18.7	2.70	20.0	mg/kg	2	5051809	CK	20-May-15	418.1	J
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Radionuclides

Radium-226	0.5 ± 0.2			pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	0.5 ± 0.2			pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052703	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
Surrogate: Tetrachloro-meta-xylene			68.5 %	35-140		5052703	CK	01-May-15	8082	
Surrogate: Decachlorobiphenyl			79.1 %	35-140		5052703	CK	01-May-15	8082	

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	

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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 6 @ 2.5'
H501114-16 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
m-p Nylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	01-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Total Nylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Surrogate: Dibromofluoromethane			102 %	80.8-114	5043001	CK	01-May-15	8260		
Surrogate: Toluene-d8			99.3 %	83.7-121	5043001	CK	01-May-15	8260		
Surrogate: 4-Bromofluorobenzene			93.9 %	57.9-154	5043001	CK	01-May-15	8260		

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050305	MS	11-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	10	5050305	MS	11-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	10	5050305	MS	11-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 6 @ 2.5'
H50114-16 (Soil)

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

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Pyrene	0.021	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Surrogate: Nitrobenzene-d5			86.8 %	20.4-109		5050305	MS	11-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			81.7 %	23.4-133		5050305	MS	11-May-15	8270C	
Surrogate: Terphenyl-d14			105 %	38.4-163		5050305	MS	11-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505076	KLJ	06-May-15	EPA9012 B	
% Dry Solids	92.6			%	1	B505011	LLG	04-May-15	EPA160.3/25 10C	HI

Soluble (DI Water Extraction)

Fluoride	2.64	0.238	1.08	mg/kg dry	4	B505119	ABP	11-May-15	4500-F-C	
Nitrate/Nitrite as N	4.17	0.041	0.120	mg/kg dry	4	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.208	0.021	0.080	mg/kg dry	4	B505070	KLJ	07-May-15	EPA353.2	

Total Metals by ICP

Barium	102	0.191	1.00	mg/kg dry	100	H505052	JGS	07-May-15	EPA6010 B	
Iron	9100	3.85	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

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Colley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BG AREA 2 - SP 6 @ 2.5'
H501H14-16 (Soil)

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

Total Metals by ICP

Manganese	89.3	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	29.3	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	3.65	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	0.0987	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Chromium	7.91	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Copper	4.18	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	5.82	0.0565	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	0.680	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Silver	0.0505	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Uranium	0.251	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	

Total Mercury by CVAA

Mercury	0.0196	0.0118	0.109	mg/kg dry	505	B505056	JGS	08-May-15	EPA7471	Ja
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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 7 @ 2.5'

H501114-17 (Soil)

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

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5042914	AP	03-May-15	4500-Cl-B	
pH*	8.41		0.100	pH Units	1	5050505	AP	05-May-15	9045	
Phenols	<2.6		2.6	mg/kg dry wt	1	5052707	CK	07-May-15	EPA9065	
Sulfate	146		40.0	mg/kg	4	5050703	AP	12-May-15	375.4	SUB-AL

Organic Compounds

TPH 418.1	5.16	2.70	20.0	mg/kg	2	5051809	CK	30-May-15	418.1	J
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Radionuclides

Radium-226	0.5 ± 0.2			pCi/gram	1	5052711	CK	21-May-15	GammaRay	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	HPGE	
Total Radium	0.5 ± 0.2			pCi/gram	1	5052711	CK	21-May-15	GammaRay	
									HPGE	

PCBs BY GC/ECD

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052703	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	

Surrogate: Tetrachloro-meta-xylene

67.6 %

35-140

5052703

CK

01-May-15

8082

Surrogate: Decachlorobiphenyl

71.0 %

35-140

5052703

CK

01-May-15

8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 7 @ 2.5'
H501114-17 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	01-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Surrogate: Dibromofluoromethane			96.7 %	80.8-114	5043001	CK	01-May-15	8260		
Surrogate: Toluene-d8			99.6 %	83.7-121	5043001	CK	01-May-15	8260		
Surrogate: 1-Bromofluorobenzene			103 %	57.9-154	5043001	CK	01-May-15	8260		

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050305	MS	11-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 7 @ 2.5'
H50114-17 (Soil)

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

Semivolatile Organic Compounds by GC/MS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Surrogate: Nitrobenzene-d5			97.3 %	20.4-109		5050305	MS	11-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			83.3 %	23.4-133		5050305	MS	11-May-15	8270C	
Surrogate: Terphenyl-d14			107 %	38.4-163		5050305	MS	11-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505076	KLJ	06-May-15	EPA9012 B	
% Dry Solids	96.1			%	1	B505011	LLG	04-May-15	EPA160.3/25 40C	III

Soluble (DI Water Extraction)

Fluoride	4.07	0.229	1.04	mg/kg dry	4	B505119	ABP	14-May-15	4500-F- C	
Nitrate/Nitrite as N	4.66	0.041	0.120	mg/kg dry	4	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.031	0.021	0.080	mg/kg dry	4	B505070	KLJ	07-May-15	EPA353.2	

Total Metals by ICP

Barium	453	0.191	1.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Cadmium	2480	3.85	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 7 @ 2.5'
H501114-17 (Soil)

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

Total Metals by ICP

Manganese	25.3	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	22.5	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	3.01	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	0.0643	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Chromium	2.73	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Copper	2.06	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	1.40	0.0565	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	0.583	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Silver	<0.0242	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Uranium	0.648	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	

Total Mercury by CVAA

Mercury	0.0146	0.0117	0.108	mg/kg dry	520	B505056	JGS	08-May-15	EPA7471	Ja
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Celley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BG AREA 2 - SP 8 @ 2.5'
11501114-18 (Soil)

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

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5042914	AP	03-May-15	4500-Cl-B	
pH*	7.87		0.100	pH Units	1	5050506	AP	05-May-15	9045	
Phenols	<3.3		3.3	mg/kg dry wt	1	5052707	CK	07-May-15	EPA9065	
Sulfate	<40.0		40.0	mg/kg	4	5050703	AP	12-May-15	375.4	SUB-AL

Organic Compounds

TPH 418.1	13.3	2.70	20.0	mg/kg	2	5051809	CK	20-May-15	418.1	J
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Radionuclides

Radium-226	0.6 ± 0.2			pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	0.6 ± 0.2			pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/EC

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052703	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
Surrogate: Tetrachloroethylene			66.9 %	35-140		5052703	CK	01-May-15	8082	
Surrogate: Decachlorobiphenyl			79.3 %	35-140		5052703	CK	01-May-15	8082	

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	

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Celely D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 8 @ 2.5'
H501114-18 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	01-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Surrogate: Dibromofluoromethane			96.4 %	80.8-114	5043001	CK	01-May-15	8260		
Surrogate: Toluene-d8			98.3 %	83.7-121	5043001	CK	01-May-15	8260		
Surrogate: 4-Bromofluorobenzene			98.5 %	57.9-154	5043001	CK	01-May-15	8260		

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	10	5050305	MS	11-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	10	5050305	MS	11-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	10	5050305	MS	11-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	10	5050305	MS	11-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	10	5050305	MS	11-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	10	5050305	MS	11-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	10	5050305	MS	11-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	10	5050305	MS	11-May-15	8270C	

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Coley D. Keene, Lab Director/Quality Manager



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Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 8 @ 2.5'

H501114-18 (Soil)

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

Carbazole	<0.004	0.004	0.040	mg/kg	10	5050305	MS	11-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Pyrene	0.021	0.003	0.040	mg/kg	10	5050305	MS	11-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	10	5050305	MS	11-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	10	5050305	MS	11-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Surrogate: Nitrobenzene-d5			83.0 %	20.4-109		5050305	MS	11-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			103 %	23.4-133		5050305	MS	11-May-15	8270C	
Surrogate: Terphenyl-d4			107 %	38.4-163		5050305	MS	11-May-15	8270C	

Green Analytical Laboratories**General Chemistry**

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505076	KLJ	06-May-15	EPA9012 B	
% Dry Solids	84.2			%	1	B505011	LLG	04-May-15	EPA160 3/25 40C	III

Soluble (DI Water Extraction)

Fluoride	2.05	0.261	1.19	mg/kg dry	4	B505119	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	0.936	0.041	0.120	mg/kg dry	4	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.247	0.021	0.080	mg/kg dry	4	B505070	KLJ	07-May-15	EPA353.2	

Total Metals by ICP

Barium	62.0	0.191	1.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Iron	6970	3.85	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BG AREA 2 - SP 8 @ 2.5'
H501114-18 (Soil)

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

Total Metals by ICP

Manganese	90.5	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	21.2	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	2.60	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	0.0737	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Chromium	6.06	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Copper	3.87	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	4.91	0.0565	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	<0.374	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Silver	0.0249	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Uranium	0.166	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	

Total Mercury by CVA

Mercury	0.0138	0.0130	0.120	mg/kg dry	505	B505056	JGS	08-May-15	EPA7471	Ja
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Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 9 @ 2.5'
11501114-19 (Soil)

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

Chloride	80.0		16.0	mg/kg	4	5042914	AP			
pH*	7.78		0.100	pH Units	1	5050506	AP	03-May-15	4500-Cl-B	
Phenols	<2.7		2.7	mg/kg dry wt.	1	5052707	CK	05-May-15	9045	
Sulfate	128		40.0	mg/kg	4	5050703	AP	07-May-15	EPA9065	SUB-AL
								12-May-15	375.4	

Organic Compounds

TPH 418.1	12.6	2.70	20.0	mg/kg	2	5051809	CK	20-May-15	418.1	J
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Radionuclides

Radium-226	<0.40		0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052703	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	

Surrogate: TetraChloro-meta-xylene

56.7 % 35-140 5052703 CK 01-May-15 8082

Surrogate: Decachlorobiphenyl

69.9 % 35-140 5052703 CK 01-May-15 8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BG AREA 2 - SP 9 @ 2.5'
H501114-19 (Soil)

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

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	01-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	01-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	01-May-15	8260	
Surrogate: Dibromofluoromethane			100 %	80.8-114		5043001	CK	01-May-15	8260	
Surrogate: Toluene-d8			98.8 %	83.7-121		5043001	CK	01-May-15	8260	
Surrogate: 4-Bromofluorobenzene			98.4 %	57.9-154		5043001	CK	01-May-15	8260	

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050305	MS	11-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 9 @ 2.5'
H501114-19 (Soil)

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

Semivolatile Organic Compounds by GC/MS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	J
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Surrogate: Nitrobenzene-d5			73.3 %	20.4-109		5050305	MS	11-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			76.1 %	23.4-133		5050305	MS	11-May-15	8270C	
Surrogate: Terphenyl-d14			107 %	38.4-163		5050305	MS	11-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505076	KLJ	06-May-15	EPA9012 B	
% Dry Solids	93.0			%	1	B505011	LLG	04-May-15	EPA160.3/25 10C	111

Soluble (DI Water Extraction)

Fluoride	3.90	0.237	1.08	mg/kg dry	4	B505119	ABP	11-May-15	4500-F-C	
Nitrate/Nitrite as N	2.75	0.041	0.120	mg/kg dry	4	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.068	0.021	0.080	mg/kg dry	4	B505070	KLJ	07-May-15	EPA353.2	Ja

Total Metals by ICP

Barium	190	0.191	1.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Iron	4120	3.85	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 9 @ 2.5'
H501114-19 (Soil)

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

Total Metals by ICP

Manganese	36.3	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	24.5	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	4.14	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	0.0916	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Chromium	4.63	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Copper	2.76	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	2.56	0.0565	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	0.429	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Silver	<0.0242	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Uranium	0.518	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	

Total Mercury by CVAA

Mercury	0.0150	0.0120	0.111	mg/kg dry	515	B505056	JGS	08-May-15	EPA7471	Ja
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Caley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16.13

BG AREA 2 - SP 10 @ 2.5'**H501114-20 (Soil)**

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

Chloride	64.0		16.0	mg/kg	4	5042914	AP	03-May-15	4500-Cl-B	
pH*	7.66		0.100	pH Units	1	5050506	AP	05-May-15	9045	
Phenols	<2.7		2.7	mg/kg dry wt.	1	5052707	CK	07-May-15	EPA9065	SUB-AL
Sulfate	138		40.0	mg/kg	4	5050703	AP	12-May-15	375.4	

Organic Compounds

TPH 418.1	17.5	2.70	20.0	mg/kg	2	5051809	CK	20-May-15	418.1	J
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Radionuclides

Radium-226	<0.40		0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052703	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052703	CK	01-May-15	8082	

Surrogate: Tetrachloro-meta-xylene

49.7 %

35-140

5052703

CK

01-May-15

8082

Surrogate: Decachlorobiphenyl

66.5 %

35-140

5052703

CK

01-May-15

8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043001	CK	02-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	02-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	02-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	02-May-15	8260	

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* = Accredited Analyte

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 10 @ 2.5'
H50114-20 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043001	CK	02-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043001	CK	02-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	02-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	02-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	02-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043001	CK	02-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043001	CK	02-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043001	CK	02-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043001	CK	02-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043001	CK	02-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	02-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043001	CK	02-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043001	CK	02-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043001	CK	02-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043001	CK	02-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043001	CK	02-May-15	8260	
Surrogate: Dibromofluoromethane			95.2 %	80.8-114	5043001	CK	02-May-15	8260		
Surrogate: Toluene-d8			100 %	83.7-121	5043001	CK	02-May-15	8260		
Surrogate: 4-Bromofluorobenzene			102 %	57.9-154	5043001	CK	02-May-15	8260		

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050305	MS	11-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 10 @ 2.5'
H501114-20 (Soil)

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

Semivolatile Organic Compounds by GC/MS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050305	MS	11-May-15	8270C	
Surrogate: Nitrobenzene-d5			114 %	20.4-109		5050305	MS	11-May-15	8270C*	S-BN
Surrogate: 2-Fluorobiphenyl			85.4 %	23.4-133		5050305	MS	11-May-15	8270C*	
Surrogate: Terphenyl-d14			117 %	38.4-163		5050305	MS	11-May-15	8270C*	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505076	KLJ	06-May-15	EPA9012 B	
% Dry Solids	93.7			%	1	B505011	LLG	04-May-15	EPA160.3/25-40C	HI

Soluble (DI Water Extraction)

Fluoride	5.63	0.235	1.07	mg/kg dry	4	B505119	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	34.0	0.811	2.40	mg/kg dry	80	B505066	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.081	0.021	0.080	mg/kg dry	4	B505070	KLJ	07-May-15	EPA353.2	

Total Metals by ICP

Barium	151	0.191	1.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Iron	5000	3.85	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 2 - SP 10 @ 2.5'
H501114-20 (Soil)

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

Total Metals by ICP

Manganese	51.4	0.218	0.500	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	
Zinc	25.8	0.792	5.00	mg/kg dry	100	B505052	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	2.86	0.260	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Cadmium	0.108	0.0474	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Chromium	4.84	0.336	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Copper	2.78	0.270	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Lead	2.60	0.0565	0.500	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Selenium	0.442	0.374	1.00	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	
Silver	<0.0242	0.0242	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	Ja
Uranium	0.376	0.0133	0.100	mg/kg dry	1000	B505054	JGS	08-May-15	6020 A	

Total Mercury by CVA

Mercury	0.0131	0.0113	0.105	mg/kg dry	490	B505056	JGS	08-May-15	EPA7471	Ja
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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 1 @ 2.5'
H501114-21 (Soil)

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

Inorganic Compounds

Chloride	<16.0	16.0	mg/kg	4	5042914	AP	03-May-15	4500-CI-B		
pH*	8.17	0.100	pH Units	1	5050506	AP	05-May-15	9045		
Phenols	<3.1	3.1	mg/kg dry wt.	1	5052707	CK	07-May-15	EPA9065		
Sulfate	<40.0	40.0	mg/kg	4	5050704	AP	12-May-15	375.4		SUB-AL

Organic Compounds

TPH 418.1	<2.70	2.70	20.0	mg/kg	2	5051809	CK	20-May-15	418.1	
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Radionuclides

Radium-226	0.7 ± 0.2			pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	SUB-RS
Radium-228	<0.70	0.70		pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	0.7 ± 0.2			pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052704	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
Surrogate: Tetrachloro-meta-xylene		57.7 %	35-140			5052704	CK	01-May-15	8082	
Surrogate: Decachlorobiphenyl		75.1 %	35-140			5052704	CK	01-May-15	8082	

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 1 @ 2.5'

H501114-21 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043004	CK	02-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Surrogate: Dibromofluoromethane			98.7 %	80.8-114	5043004	CK	02-May-15	8260		
Surrogate: Toluene-d8			97.8 %	83.7-121	5043004	CK	02-May-15	8260		
Surrogate: 4-Bromofluorobenzene			102 %	57.9-154	5043004	CK	02-May-15	8260		

Semivolatile Organic Compounds by GCMS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050306	MS	11-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 1 @ 2.5'
H501114-21 (Soil)

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

Semivolatile Organic Compounds by GC/MS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Pyrene	0.021	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	J
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	J
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Surrogate: Nitrobenzene-d5			70.9 %	20.4-109		5050306	MS	11-May-15	8270C	
Surrogate: 2,4-Dichlorobiphenyl			58.2 %	23.4-133		5050306	MS	11-May-15	8270C	
Surrogate: Terphenyl-d14			84.3 %	38.4-163		5050306	MS	11-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505077	KLJ	06-May-15	EPA9012 B	
% Dry Solids	91.7			%	1	B505011	LLG	04-May-15	EPA160.3/25 40C	HI

Soluble (DI Water Extraction)

Fluoride	0.480	0.240	1.09	mg/kg dry	4	B505120	ABP	11-May-15	4500-F-C	Ja
Nitrate/Nitrite as N	0.506	0.041	0.120	mg/kg dry	4	B505067	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.101	0.021	0.080	mg/kg dry	4	B505071	KLJ	07-May-15	EPA353.2	

Total Metals by ICP

Barium	44.2	0.191	1.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Iron	8250	3.85	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 1 @ 2.5'
H501114-21 (Soil)

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

Total Metals by ICP

Manganese	69.6	0.218	0.500	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Zinc	20.9	0.792	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	3.31	0.260	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Cadmium	0.0590	0.0474	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Chromium	7.44	0.336	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja
Copper	3.06	0.270	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Lead	5.24	0.0565	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Selenium	0.397	0.374	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Silver	0.0696	0.0242	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja
Uranium	0.216	0.0133	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja

Total Mercury by CVAA

Mercury	0.0237	0.0119	0.110	mg/kg dry	505	B505057	JGS	08-May-15	EPA7471	Ja
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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 2 @ 2.5'
H501114-22 (Soil)

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

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5042915	AP	05-May-15	4500-Cl-B	
pH*	8.18		0.100	pH Units	1	5050506	AP	05-May-15	9045	
Phenols	<3.1		3.1	mg/kg dry wt	1	5052707	CK	07-May-15	EPA9065	
Sulfate	<40.0		40.0	mg/kg	4	5050704	AP	12-May-15	375.4	SUB-AL

Organic Compounds

TPH 418.1	<2.70	2.70	20.0	mg/kg	2	5051809	CK	20-May-15	418.1	
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Radionuclides

Radium-226	0.7 ± 0.2			pCi/gram	1	5052711	CK	21-May-15	GammaRay	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	HPGE	
Total Radium	0.7 ± 0.2			pCi/gram	1	5052711	CK	21-May-15	GammaRay	
									HPGE	

PCBs BY GC/ECD

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052704	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	

Surrogate: Tetrachloro-meta-xylene

61.7 % 35-140 5052704 CK 01-May-15 8082

Surrogate: Decachlorobiphenyl

76.8 % 35-140 5052704 CK 01-May-15 8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 2 @ 2.5'
H501114-22 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043004	CK	02-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Surrogate: Dibromofluoromethane			96.0 %	80.8-114	5043004	CK	02-May-15	8260		
Surrogate: Toluene-d8			98.5 %	83.7-121	5043004	CK	02-May-15	8260		
Surrogate: 4-Bromofluorobenzene			95.4 %	57.9-154	5043004	CK	02-May-15	8260		

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050306	MS	11-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 2 @ 2.5'
H50114-22 (Soil)

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

Semivolatile Organic Compounds by GC/MS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Pyrene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	J
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Surrogate: Nitrobenzene-d5				65.8 %	20.4-109	5050306	MS	11-May-15	8270C	
Surrogate: 2-Fluorobiphenyl				72.0 %	23.4-133	5050306	MS	11-May-15	8270C	
Surrogate: Terphenyl-H4				89.3 %	38.4-163	5050306	MS	11-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505077	KLJ	06-May-15	EPA9012 B	
% Dry Solids	91.2			%	1	B505011	LIG	04-May-15	EPA160.3/25-40C	III

Soluble (DI Water Extraction)

Fluoride	1.83	0.241	1.10	mg/kg dry	4	B505120	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	0.921	0.041	0.120	mg/kg dry	4	B505067	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.068	0.021	0.080	mg/kg dry	4	B505071	KLJ	07-May-15	EPA353.2	Ja

Total Metals by ICP

Barium	47.3	0.191	1.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Iron	9310	3.85	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 2 @ 2.5'
H50H14-22 (Soil)

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

Total Metals by ICP

Manganese	71.8	0.218	0.500	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Zinc	21.9	0.792	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	3.10	0.260	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Cadmium	0.0511	0.0474	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja
Chromium	7.34	0.336	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Copper	2.80	0.270	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Lead	5.41	0.0565	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Selenium	0.516	0.374	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja
Silver	0.0656	0.0242	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja
Uranium	0.389	0.0133	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	

Total Mercury by CVA

Mercury	0.0156	0.0113	0.104	mg/kg dry	475	B505057	JGS	08-May-15	EPA7171	Ja
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 3 (@ 2.5'
H501114-23 (Soil)

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

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5042915	AP	05-May-15	4500-Cl-B	
pH*	7.85		0.100	pH Units	1	5050506	AP	05-May-15	9045	
Phenols	17.7		2.7	mg/kg dry wt.	1	5052707	CK	07-May-15	EPA9065	
Sulfate	<40.0		40.0	mg/kg	4	5050704	AP	12-May-15	375.4	SUB-AL

Organic Compounds

TPH 418.1	16.3	2.70	20.0	mg/kg	2	5051809	CK	20-May-15	418.1	J
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Radionuclides

Radium-226	<0.40		0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052704	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	

Surrogate: Tetrachloro-meta-xylene

61.6 % 35-140 5052704 CK 01-May-15 8082

Surrogate: Decachlorobiphenyl

79.1 % 35-140 5052704 CK 01-May-15 8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	

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Cole D. Keene

Cole D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 3 @ 2.5'
H50H14-23 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043004	CK	02-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Surrogate: Dibromofluoromethane			95.7 %	80.8-114	5043004	CK	02-May-15	8260		
Surrogate: Toluene-d8			100 %	83.7-121	5043004	CK	02-May-15	8260		
Surrogate: 4-Bromofluorobenzene			102 %	57.9-154	5043004	CK	02-May-15	8260		

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050306	MS	11-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	

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Caley D. Keene, Lab Director/Quality Manager



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Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
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Fax To: (575) 396-1429

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BG AREA 3 - SP 3 @ 2.5'
H501114-23 (Soil)

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

Semivolatile Organic Compounds by GC/MS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Pyrene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	J
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Surrogate: Nitrobenzene-d5			70.4 %	20.4-109		5050306	MS	11-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			65.9 %	23.4-133		5050306	MS	11-May-15	8270C	
Surrogate: Terphenyl-d14			85.2 %	38.4-163		5050306	MS	11-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505077	KLJ	06-May-15	EPA9012 B	
% Dry Solids	90.2			%	1	B505011	LLG	04-May-15	EPA160.3/25 40C	III

Soluble (DI Water Extraction)

Fluoride	1.88	0.244	1.11	mg/kg dry	4	B505120	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	0.656	0.041	0.120	mg/kg dry	4	B505067	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.072	0.021	0.080	mg/kg dry	4	B505071	KLJ	07-May-15	EPA353.2	Ja

Total Metals by ICP

Barium	54.1	0.191	1.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Iron	9470	3.85	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 3 @ 2.5'
H501114-23 (Soil)

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

Total Metals by ICP

Manganese	79.1	0.218	0.500	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Zinc	21.0	0.792	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	3.26	0.260	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Cadmium	0.0562	0.0474	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja
Chromium	7.85	0.336	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Copper	2.99	0.270	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Lead	5.56	0.0565	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Selenium	<0.374	0.374	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Silver	0.0560	0.0242	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja
Uranium	0.305	0.0133	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	

Total Mercury by CVAA

Mercury	0.0161	0.0116	0.108	mg/kg dry	485	B505057	JGS	08-May-15	EPA7471	Ja
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BG AREA 3 - SP 4 @ 2.5'
H501114-24 (Soil)

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

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5042915	AP	05-May-15	4500-Cl-B	
pH*	7.85		0.100	pH Units	1	5050506	AP	05-May-15	9045	
Phenols	<3.3		3.3	mg/kg dry wt.	1	5052707	CK	07-May-15	EPA9065	SUB-AL
Sulfate	<40.0		40.0	mg/kg	4	5050704	AP	12-May-15	375.4	

Organic Compounds

TPH 418.1	11.8	2.70	20.0	mg/kg	2	5051809	CK	20-May-15	418.1	J
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Radionuclides

SUB-RS

Radium-226	<0.40		0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

SUB-SS

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	

Surrogate: Tetrachloro-meta-xylene	54.0 %	35-140	5052704	CK	01-May-15	8082
Surrogate: Decachlorobiphenyl	71.9 %	35-140	5052704	CK	01-May-15	8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BG AREA 3 - SP 4 @ 2.5'
H501114-24 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043004	CK	02-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Surrogate: Dibromofluoromethane			97.8 %	80.8-114		5043004	CK	02-May-15	8260	
Surrogate: Toluene-d8			101 %	83.7-121		5043004	CK	02-May-15	8260	
Surrogate: 4-Bromofluorobenzene			99.4 %	57.9-154		5043004	CK	02-May-15	8260	

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050306	MS	11-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 4 @ 2.5'
H501114-24 (Soil)

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

Semivolatile Organic Compounds by GCMS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Pyrene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	J
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Surrogate: Nurobenzene-d5			65.8 %	20.4-109		5050306	MS	11-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			64.6 %	23.4-133		5050306	MS	11-May-15	8270C	
Surrogate: Terphenyl-d14			82.4 %	38.4-163		5050306	MS	11-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505077	KLJ	06-May-15	EPA9012 B	
% Dry Solids	93.1			%	1	B505011	L.L.G.	04-May-15	EPA160.3/25 40C	III

Soluble (DI Water Extraction)

Fluoride	2.08	0.236	1.07	mg/kg dry	4	B505120	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	0.730	0.041	0.120	mg/kg dry	4	B505067	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.052	0.021	0.080	mg/kg dry	4	B505071	KLJ	07-May-15	EPA353.2	Ja

Total Metals by ICP

Barium	47.0	0.191	1.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Iron	8420	3.85	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 4 @ 2.5'
H501114-24 (Soil)

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

Total Metals by ICP

Manganese	98.3	0.218	0.500	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Zinc	18.8	0.792	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	2.81	0.260	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Cadmium	<0.0474	0.0474	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Chromium	6.20	0.336	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Copper	2.70	0.270	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Lead	4.87	0.0565	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Selenium	<0.374	0.374	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Silver	0.0379	0.0242	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Uranium	0.217	0.0133	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja

Total Mercury by CVAA

Mercury	0.0133	0.0110	0.102	mg/kg dry	475	B505057	JGS	08-May-15	EPA7471	Ja
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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 5 @ 2.5'

H501114-25 (Soil)

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

Chloride	<16.0		16.0	mg/kg	4	5042915	AP	05-May-15	4500-Cl-B	
pH*	8.03		0.100	pH Units	1	5050506	AP	05-May-15	9045	
Phenols	3.0		2.6	mg/kg dry wt	1	5052707	CK	11-May-15	EPA9065	SUB-AL
Sulfate	165		40.0	mg/kg	4	5050704	AP	12-May-15	375.4	

Organic Compounds

TPH 418.1	21.4	2.70	20.0	mg/kg	2	5051809	CK	20-May-15	418.1	
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Radionuclides

Radium-226	0.5 ± 0.2			pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	0.5 ± 0.2			pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052704	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	

Surrogate: Tetrachloro-meta-xylene

62.0 % 35-140

5052704

CK

01-May-15

8082

Surrogate: Decachlorobiphenyl

76.9 % 35-140

5052704

CK

01-May-15

8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 5 @ 2.5'
11501114-25 (Soil)

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

Cardinal Laboratories**Volatile Organic Compounds by EPA Method 8260B**

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043004	CK	02-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Surrogate: Dibromofluoromethane			98.4 %			5043004	CK	02-May-15	8260	
Surrogate: Toluene-d8			100 %	80.8-114		5043004	CK	02-May-15	8260	
Surrogate: 4-Bromofluorobenzene			101 %	83.7-121		5043004	CK	02-May-15	8260	
				57.9-154		5043004	CK	02-May-15	8260	

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050306	MS	11-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	10	5050306	MS	11-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	10	5050306	MS	11-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	10	5050306	MS	11-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	10	5050306	MS	11-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 5 @ 2.5'
H501H4-25 (Soil)

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

Semivolatile Organic Compounds by GC/MS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Pyrene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	J
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Surrogate: Naphthalene-d5			74.6 %	20.4-109		5050306	MS	11-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			65.5 %	23.4-133		5050306	MS	11-May-15	8270C	
Surrogate: Terphenyl-d4			84.5 %	38.4-163		5050306	MS	11-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505077	KLJ	06-May-15	EPA9012 B	
% Dry Solids	95.8			%	1	B505011	LLG	04-May-15	EPA160.3/25 40C	H1

Soluble (DI Water Extraction)

Fluoride	5.09	0.230	1.04	mg/kg dry	4	B505120	ABP	14-May-15	4500-F- C	
Nitrate/Nitrite as N	2.97	0.041	0.120	mg/kg dry	4	B505067	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.068	0.021	0.080	mg/kg dry	4	B505071	KLJ	07-May-15	EPA353.2	Ja

Total Metals by ICP

Barium	840	0.191	1.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Iron	1770	3.85	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

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Celley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BG AREA 3 - SP 5 @ 2.5'
H501114-25 (Soil)

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

Total Metals by ICP

Manganese	25.6	0.218	0.500	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Zinc	18.4	0.792	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	6.13	0.260	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Cadmium	<0.0474	0.0474	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Chromium	2.03	0.336	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Copper	1.98	0.270	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Lead	1.17	0.0565	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Selenium	0.646	0.374	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja
Silver	<0.0242	0.0242	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Uranium	0.716	0.0133	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	

Total Mercury by CVAA

Mercury	0.0121	0.0114	0.105	mg/kg dry	505	B505057	JGS	08-May-15	EPA7471	Ja
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 6 @ 2.5'
11501114-26 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
Cardinal Laboratories										
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	5042915	AP	05-May-15	4500-Cl-B	
pH*	8.16		0.100	pH Units	1	5050506	AP	05-May-15	9045	
Phenols	<2.6		2.6	mg/kg dry wt	1	5052707	CK	11-May-15	EPA9065	
Sulfate	154		40.0	mg/kg	4	5050704	AP	12-May-15	375.4	SUB-AL
Organic Compounds										
TPH 418.1	36.8	2.70	20.0	mg/kg	2	5051809	CK	20-May-15	418.1	
Radionuclides										
Radium-226	<0.40		0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	SUB-RS
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
PCBs BY GC/ECD										
PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052704	CK	01-May-15	8082	SUB-SS
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
Surrogate: TetraChloro-meta-xylene			64.6 %	35-140		5052704	CK	01-May-15	8082	
Surrogate: Decachlorobiphenyl			80.7 %	35-140		5052704	CK	01-May-15	8082	
Volatile Organic Compounds by EPA Method 8260B										
Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Basin Environmental Service
P.O. Box 301
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Project: J & L LANDFARM
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Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

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27-May-15 16:13

BG AREA 3 - SP 6 @ 2.5'
H50114-26 (Soil)

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

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043004	CK	02-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
S surrogate: Dibromofluoromethane			103 %	80.8-114	5043004	CK	02-May-15	8260		
S surrogate: Toluene-d8			99.8 %	83.7-121	5043004	CK	02-May-15	8260		
S surrogate: 4-Bromofluorobenzene			94.2 %	57.9-154	5043004	CK	02-May-15	8260		

Semivolatile Organic Compounds by GC/MS

Naphthalene	0.018	0.002	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050306	MS	11-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	

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Coley D. Keene, Lab Director/Quality Manager



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BG AREA 3 - SP 6 @ 2.5'

H501114-26 (Soil)

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

Cardinal Laboratories**Semivolatile Organic Compounds by GCMS**

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Pyrene	0.021	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	J
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	10	5050306	MS	11-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	J
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Surrogate: Nitrobenzene-d5			67.8 %	20.4-109		5050306	MS	11-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			60.4 %	23.4-133		5050306	MS	11-May-15	8270C	
Surrogate: Terphenyl-d14			79.5 %	38.4-163		5050306	MS	11-May-15	8270C	

Green Analytical Laboratories**General Chemistry**

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505077	KLJ	06-May-15	EPA9012 B	MS
% Dry Solids	94.2			%	1	B505011	LLG	04-May-15	EPA160.3/25 40C	HI

Soluble (DI Water Extraction)

Fluoride	5.73	0.233	1.06	mg/kg dry	4	B505120	ABP	14-May-15	1500-F-C	
Nitrate/Nitrite as N	5.39	0.041	0.120	mg/kg dry	4	B505067	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.066	0.021	0.080	mg/kg dry	4	B505071	KLJ	07-May-15	EPA353.2	Ja

Total Metals by ICP

Barium	439	0.191	1.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Iron	1650	3.85	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

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* = Accredited Analyte

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Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BG AREA 3 - SP 6 @ 2.5'
H501H14-26 (Soil)

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

Total Metals by ICP

Manganese	21.4	0.218	0.500	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Zinc	18.3	0.792	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	5.46	0.260	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Cadmium	0.0718	0.0474	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja
Chromium	2.06	0.336	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Copper	2.15	0.270	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Lead	1.17	0.0565	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Selenium	0.544	0.374	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja
Silver	<0.0242	0.0242	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Uranium	0.685	0.0133	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	

Total Mercury by CVAA

Mercury	<0.0118	0.0118	0.109	mg/kg dry	515	B505057	JGS	08-May-15	EPA7471	
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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BG AREA 3 - SP 7 @ 2.5'

11501114-27 (Soil)

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

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5042915	AP	05-May-15	4500-Cl-B	
pH*	8.19		0.100	pH Units	1	5050506	AP	05-May-15	9045	
Phenols	8.5		2.9	mg/kg dry wt.	1	5052707	CK	11-May-15	EPA9065	SUB-AL
Sulfate	173		40.0	mg/kg	4	5050704	AP	12-May-15	375-4	

Organic Compounds

TPH 418.1	8.44	2.70	20.0	mg/kg	2	5051809	CK	20-May-15	118.1	J
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Radionuclides

SUB-RS

Radium-226	1.0 ± 0.2			pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	1.0 ± 0.2			pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

SUB-SS

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	

Surrogate: Tetrachloro-meta-xylene

64.7 % 35-140 5052704 CK 01-May-15 8082

Surrogate: Decachlorobiphenyl

81.1 % 35-140 5052704 CK 01-May-15 8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 7 @ 2.5'
H501114-27 (Soil)

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

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
m-p-Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043004	CK	02-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Surrogate: Dibromofluoromethane			99.1 %	30.8-114	5043004	CK	02-May-15	8260		
Surrogate: Toluene-d8			102 %	83.7-121	5043004	CK	02-May-15	8260		
Surrogate: 4-Bromofluorobenzene			97.8 %	57.9-154	5043004	CK	02-May-15	8260		

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050306	MS	11-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 7 @ 2.5'
H501114-27 (Soil)

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

Semivolatile Organic Compounds by GC/MS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Pyrene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	J
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Dibenzo[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Surrogate: Nitrobenzene-d5			56.2 %	20.4-109		5050306	MS	11-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			67.4 %	23.4-133		5050306	MS	11-May-15	8270C	
Surrogate: Terphenyl-d14			108 %	38.4-163		5050306	MS	11-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505078	KLJ	08-May-15	EPA9012 B	
% Dry Solids	95.9			%	1	B505011	LLG	04-May-15	EPA160.3/25 40C	HI

Soluble (DI Water Extraction)

Fluoride	6.53	0.229	1.04	mg/kg dry	4	B505120	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	4.46	0.041	0.120	mg/kg dry	4	B505067	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.074	0.021	0.080	mg/kg dry	4	B505071	KLJ	07-May-15	EPA353.2	Ja

Total Metals by ICP

Barium	282	0.191	1.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Iron	1980	3.85	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 7 @ 2.5'
11501114-27 (Soil)

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

Total Metals by ICP

Manganese	27.4	0.218	0.500	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Zinc	18.3	0.792	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	7.59	0.260	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Cadmium	<0.0474	0.0474	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Chromium	3.71	0.336	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Copper	3.28	0.270	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Lead	1.44	0.0565	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Selenium	0.572	0.374	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Silver	<0.0242	0.0242	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja
Uranium	1.19	0.0133	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	

Total Mercury by CVAA

Mercury	0.0123	0.0110	0.102	mg/kg dry	490	B505057	JGS	08-May-15	EPA7471	Ja
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Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BG AREA 3 - SP 8 @ 2.5'
11501114-28 (Soil)

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

Inorganic Compounds

Chloride	<16.0	16.0	mg/kg	4	5042915	AP	05-May-15	4500-Cl-B		
pH*	7.60	0.100	pH Units	1	5050507	AP	05-May-15	9045		
Phenols	7.4	2.6	mg/kg dry wt	1	5052707	CK	11-May-15	EPA9065		SUB-AL
Sulfate	195	40.0	mg/kg	4	5050704	AP	12-May-15	375.4		

Organic Compounds

TPH 418.1	39.4	2.70	20.0	mg/kg	2	5051809	CK	20-May-15	418.1	
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Radionuclides

SUB-RS

Radium-226	<0.40	0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE		
Radium-228	<0.70	0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE		
Total Radium	<0.70	0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE		

PCBs BY GC/ECD

SUB-SS

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	

Surrogate: Tetrachloro-meta-xylene	59.8 %	35-140	5052704	CK	01-May-15	8082	
Surrogate: Decachlorobiphenyl	76.3 %	35-140	5052704	CK	01-May-15	8082	

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 8 @ 2.5'

H501114-28 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043004	CK	02-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Surrogate: Dibromofluoromethane			95.2 %	80.8-114		5043004	CK	02-May-15	8260	
Surrogate: Toluene-d8			101 %	83.7-121		5043004	CK	02-May-15	8260	
Surrogate: 4-Bromofluorobenzene			94.0 %	57.9-154		5043004	CK	02-May-15	8260	

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050306	MS	11-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	

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Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BG AREA 3 - SP 8 @ 2.5'
H501114-28 (Soil)

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

Semivolatile Organic Compounds by GCMS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Pyrene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	J
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Surrogate: Nitrobenzene-d5			90.7 %	20.4-109		5050306	MS	11-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			67.1 %	23.4-133		5050306	MS	11-May-15	8270C	
Surrogate: Triphenyl-d14			84.7 %	38.4-163		5050306	MS	11-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505078	KLJ	08-May-15	EPA9012 B	
% Dry Solids	94.1			%	1	B505011	LLG	04-May-15	EPA160.3/25 40C	111

Soluble (DI Water Extraction)

Fluoride	4.67	0.234	1.06	mg/kg dry	4	B505120	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	1.94	0.041	0.120	mg/kg dry	4	B505067	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.092	0.021	0.080	mg/kg dry	4	B505071	KLJ	07-May-15	EPA353.2	

Total Metals by ICP

Barium	132	0.191	1.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Iron	2660	3.85	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

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Colley D. Keene

Colley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 8 @ 2.5'
11501114-28 (Soil)

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

Total Metals by ICP

Manganese	49.6	0.218	0.500	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Zinc	20.1	0.792	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	4.19	0.260	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Cadmium	0.151	0.0474	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja
Chromium	3.18	0.336	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Copper	3.92	0.270	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Lead	2.39	0.0565	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Selenium	0.548	0.374	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja
Silver	<0.0242	0.0242	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Uranium	0.487	0.0133	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	

Total Mercury by CVAA

Mercury	0.0204	0.0119	0.110	mg/kg dry	520	B505057	JGS	08-May-15	EPA7471	Ja
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Celay D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 9 @ 2.5'
11501114-29 (Soil)

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

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5042915	AP	05-May-15	4500-Cl-B	
pH*	7.77		0.100	pH Units	1	5050507	AP	05-May-15	9045	
Phenols	<2.6		2.6	mg/kg dry wt.	1	5052707	CK	11-May-15	EPA9065	SUB-AL
Sulfate	115		40.0	mg/kg	4	5050704	AP	12-May-15	375.4	

Organic Compounds

TPH 418.1	26.4	2.70	20.0	mg/kg	2	5051809	CK	20-May-15	418.1	
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Radionuclides

SUB-RS

Radium-226	<0.40		0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

SUB-SS

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	

Surrogate: Tetrachloro-meta-xylene 68.3 % 35-140 5052704 CK 01-May-15 8082

Surrogate: Decachlorobiphenyl 50.1 % 35-140 5052704 CK 01-May-15 8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 9 @ 2.5'

11501114-29 (Soil)

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

Volatile Organic Compounds by EPA Method 8260B

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043004	CK	02-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Surrogate: Dibromofluoromethane			101 %	80.8-114	5043004	CK	02-May-15	8260		
Surrogate: Toluene-d8			97.1 %	83.7-121	5043004	CK	02-May-15	8260		
Surrogate: 4-Bromofluorobenzene			98.7 %	57.9-154	5043004	CK	02-May-15	8260		

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050306	MS	11-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	

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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP9 @ 2.5'

H1501114-29 (Soil)

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

Cardinal Laboratories**Semivolatile Organic Compounds by GCMS**

Carbazole	<0.004	0.004	0.040	mg/kg	10	5050306	MS	11-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Pyrene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	J
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050306	MS	11-May-15	8270C	
Surrogate: Nitrobenzene-d3			58.6 %	20.4-109		5050306	MS	11-May-15	8270C	
Surrogate: 2-Fluorobiphenyl			63.2 %	23.4-133		5050306	MS	11-May-15	8270C	
Surrogate: Terphenyl-1,11			82.0 %	38.4-163		5050306	MS	11-May-15	8270C	

Green Analytical Laboratories**General Chemistry**

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505078	KLJ	08-May-15	EPA9012 B	
% Dry Solids	94.0			%	1	B505011	LLG	04-May-15	EPA160.3/25 40C	H1

Soluble (DI Water Extraction)

Fluoride	4.91	0.234	1.06	mg/kg dry	4	B505120	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	2.45	0.041	0.120	mg/kg dry	4	B505067	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.196	0.021	0.080	mg/kg dry	4	B505071	KLJ	07-May-15	EPA353.2	

Total Metals by ICP

Barium	184	0.191	1.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Iron	4760	3.85	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BC AREA 3 - SP 9 @ 2.5'
H501114-29 (Soil)

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

Total Metals by ICP

Manganese	59.7	0.218	0.500	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Zinc	22.4	0.792	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	3.55	0.260	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Cadmium	0.0762	0.0474	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja
Chromium	4.49	0.336	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Copper	4.07	0.270	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Lead	3.03	0.0565	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Selenium	0.453	0.374	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja
Silver	0.0321	0.0242	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja
Uranium	0.426	0.0133	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	

Total Mercury by CVAA

Mercury	0.0138	0.0110	0.102	mg/kg dry	480	B505057	JGS	08-May-15	EPA7471	Ja
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Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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BG AREA 3 - SP 10 @ 2.5'
H501114-30 (Soil)

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

Inorganic Compounds

Chloride	<16.0		16.0	mg/kg	4	5042915	AP	05-May-15	4500-Cl-B	
pH*	8.36		0.100	pH Units	1	5050507	AP	05-May-15	9045	
Phenols	<2.7		2.7	mg/kg dry wt	1	5052707	CK	11-May-15	EPA9065	SUB-AL
Sulfate	108		40.0	mg/kg	4	5050704	AP	12-May-15	375.4	

Organic Compounds

TPH 418.1	17.2	2.70	20.0	mg/kg	2	5051809	CK	20-May-15	418.1	J
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Radionuclides

SUB-RS

Radium-226	<0.40		0.40	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Radium-228	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	
Total Radium	<0.70		0.70	pCi/gram	1	5052711	CK	21-May-15	GammaRay HPGE	

PCBs BY GC/ECD

SUB-SS

PCB 1016	<0.130	0.130	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1221	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1232	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1242	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1248	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1254	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	
PCB 1260	<0.150	0.150	10.0	ug/kg	1	5052704	CK	01-May-15	8082	

Surrogate: Tetrachloro-meta-xylene	65.8 %	35-140	5052704	CK	01-May-15	8082
Surrogate: Decachlorobiphenyl	79.3 %	35-140	5052704	CK	01-May-15	8082

Volatile Organic Compounds by EPA Method 8260B

Vinyl chloride*	<0.0205	0.0205	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethene*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Methylene chloride*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1-Dichloroethane*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 10 @ 2.5'

H50114-30 (Soil)

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

Chloroform*	<0.0210	0.0210	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Carbon tetrachloride*	<0.00600	0.00600	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,1-Trichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Benzene*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dichloroethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Trichloroethene*	<0.0170	0.0170	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Toluene*	<0.0150	0.0150	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Tetrachloroethene*	<0.0135	0.0135	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2-Trichloroethane*	<0.0155	0.0155	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
1,2-Dibromoethane*	<0.0120	0.0120	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Ethylbenzene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
m-p Xylenes*	<0.0100	0.0100	0.100	mg/kg	50	5043004	CK	02-May-15	8260	
o-Xylene*	<0.0140	0.0140	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Total Xylenes*	<0.0415	0.0415	0.150	mg/kg	50	5043004	CK	02-May-15	8260	
1,1,2,2-Tetrachloroethane*	<0.0130	0.0130	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Naphthalene*	<0.00900	0.00900	0.0500	mg/kg	50	5043004	CK	02-May-15	8260	
Surrogate: Dibromofluoromethane			98.0 %	80.8-114	5043004	CK	02-May-15	8260		
Surrogate: Toluene-d8			96.8 %	83.7-121	5043004	CK	02-May-15	8260		
Surrogate: 1-Bromofluorobenzene			90.9 %	57.9-154	5043004	CK	02-May-15	8260		

Semivolatile Organic Compounds by GC/MS

Naphthalene	<0.002	0.002	0.040	mg/kg	40	5050306	MS	12-May-15	8270C	
2-Methylnaphthalene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	12-May-15	8270C	
1-Methylnaphthalene	<0.001	0.001	0.020	mg/kg	40	5050306	MS	12-May-15	8270C	
Acenaphthylene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	12-May-15	8270C	
Acenaphthene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	12-May-15	8270C	
Fluorene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	12-May-15	8270C	
Phenanthrene	<0.006	0.006	0.040	mg/kg	40	5050306	MS	12-May-15	8270C	
Anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	12-May-15	8270C	

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 10 @ 2.5'
H501114-30 (Soil)

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

Semivolatile Organic Compounds by GC/MS

Carbazole	<0.004	0.004	0.040	mg/kg	40	5050306	MS	12-May-15	8270C	
Fluoranthene	<0.007	0.007	0.040	mg/kg	40	5050306	MS	12-May-15	8270C	
Pyrene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	12-May-15	8270C	
Benzo[a]anthracene	<0.016	0.016	0.040	mg/kg	40	5050306	MS	12-May-15	8270C	
Chrysene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	12-May-15	8270C	
Benzo[b]fluoranthene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	12-May-15	8270C	
Benzo[k]fluoranthene	<0.004	0.004	0.040	mg/kg	40	5050306	MS	12-May-15	8270C	
Benzo[a]pyrene	0.014	0.003	0.040	mg/kg	40	5050306	MS	12-May-15	8270C	J
Indeno[1,2,3-cd]pyrene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	12-May-15	8270C	
Dibenz[a,h]anthracene	<0.003	0.003	0.040	mg/kg	40	5050306	MS	12-May-15	8270C	
Benzo[g,h,i]perylene	<0.030	0.030	0.040	mg/kg	40	5050306	MS	12-May-15	8270C	

Surrogate: Nurobenzene-d5	64.8 %	20.4-109	5050306	MS	12-May-15	8270C	
Surrogate: 2-Fluorobiphenyl	58.3 %	23.4-133	5050306	MS	12-May-15	8270C	
Surrogate: Terphenyl-d14	76.6 %	38.4-163	5050306	MS	12-May-15	8270C	

Green Analytical Laboratories

General Chemistry

Cyanide, Total	<0.497	0.497	1.00	mg/kg dry	100	B505078	KLJ	08-May-15	EPA9012 B	
% Dry Solids	96.4			%	1	B505011	LUG	04-May-15	EPA160.3/25 40C	III

Soluble (DI Water Extraction)

Fluoride	5.46	0.228	1.04	mg/kg dry	4	B505120	ABP	14-May-15	4500-F-C	
Nitrate/Nitrite as N	3.89	0.041	0.120	mg/kg dry	4	B505067	KLJ	07-May-15	EPA353.2	
Nitrite as N	0.025	0.021	0.080	mg/kg dry	4	B505071	KLJ	07-May-15	EPA353.2	Ja

Total Metals by ICP

Barium	246	0.191	1.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Iron	840	3.85	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

BG AREA 3 - SP 10 @ 2.5'
H501114-30 (Soil)

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

Total Metals by ICP

Manganese	9.89	0.218	0.500	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	
Zinc	16.1	0.792	5.00	mg/kg dry	100	B505053	JGS	07-May-15	EPA6010 B	

Total Metals by ICPMS

Arsenic	5.92	0.260	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Cadmium	<0.0474	0.0474	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Chromium	1.18	0.336	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Copper	2.32	0.270	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Lead	0.457	0.0565	0.500	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja
Selenium	0.392	0.374	1.00	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	Ja
Silver	<0.0242	0.0242	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	
Uranium	0.826	0.0133	0.100	mg/kg dry	1000	B505055	JGS	08-May-15	6020 A	

Total Mercury by CVAA

Mercury	<0.0106	0.0106	0.0986	mg/kg dry	475	B505057	JGS	08-May-15	EPA7471	
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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5042905 - 1:4 DI Water										
Blank (5042905-BLK1)										
Chloride	ND	16.0	mg/kg							Prepared & Analyzed: 29-Apr-15
LCS (5042905-BS1)										
Chloride	416	16.0	mg/kg	400		104	80-120			Prepared & Analyzed: 29-Apr-15
LCS Dup (5042905-BSD1)										
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	Prepared & Analyzed: 29-Apr-15
Batch 5042914 - 1:4 DI Water										
Blank (5042914-BLK1)										
Chloride	ND	16.0	mg/kg							Prepared & Analyzed: 03-May-15
LCS (5042914-BS1)										
Chloride	400	16.0	mg/kg	400		100	80-120			Prepared & Analyzed: 03-May-15
LCS Dup (5042914-BSD1)										
Chloride	432	16.0	mg/kg	400		108	80-120	7.69	20	Prepared & Analyzed: 03-May-15
Batch 5042915 - 1:4 DI Water										
Blank (5042915-BLK1)										
Chloride	ND	16.0	mg/kg							Prepared & Analyzed: 29-Apr-15
LCS (5042915-BS1)										
Chloride	416	16.0	mg/kg	100		104	80-120			Prepared & Analyzed: 29-Apr-15

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Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5042915 - 1:4 DI Water										
LCS Dup (5042915-BSD1)					Prepared & Analyzed: 29-Apr-15					
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
Batch 5050401 - 1:1 DI										
LCS (5050401-BS1)					Prepared & Analyzed: 04-May-15					
pH	7.05		pH Units	7.00		101	90-110			
Duplicate (5050401-DUP1)					Source: H501083-01 Prepared & Analyzed: 04-May-15					
pH	7.39	0.100	pH Units		7.45			0.809	20	
Batch 5050403 - General Prep - Wet Chem										
LCS (5050403-BS1)					Prepared: 04-May-15 Analyzed: 05-May-15					
pH	7.15		pH Units	7.00		102	90-110			
Duplicate (5050403-DUP1)					Source: H501138-01 Prepared: 04-May-15 Analyzed: 05-May-15					
pH	8.19	0.100	pH Units		8.20			0.122	20	
Batch 5050505 - General Prep - Wet Chem										
LCS (5050505-BS1)					Prepared & Analyzed: 05-May-15					
pH	7.17		pH Units	7.00		102	90-110			
Duplicate (5050505-DUP1)					Source: H501114-08 Prepared & Analyzed: 05-May-15					
pH	8.31	0.100	pH Units		8.22			1.09	20	



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Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Batch 5050506 - General Prep - Wet Chem										
LCS (5050506-BS1)					Prepared & Analyzed: 05-May-15					
pH	7.15		pH Units	7.00		102	90-110			
Duplicate (5050506-DUP1)					Source: H501114-18 Prepared & Analyzed: 05-May-15					
pH	7.90	0.100	pH Units		7.87			0.380	20	
Batch 5050507 - General Prep - Wet Chem										
LCS (5050507-BS1)					Prepared & Analyzed: 05-May-15					
pH	6.99		pH Units	7.00		99.9	90-110			
Duplicate (5050507-DUP1)					Source: H501114-28 Prepared & Analyzed: 05-May-15					
pH	7.76	0.100	pH Units		7.60			2.08	20	
Batch 5050703 - General Prep - Wet Chem										
Blank (5050703-BLK1)					Prepared: 07-May-15 Analyzed: 12-May-15					
Sulfate	ND	100	mg/kg							
LCS (5050703-BS1)					Prepared: 07-May-15 Analyzed: 12-May-15					
Sulfate	17.0	100	mg/kg	20.0		85.0	80-120			
LCS Dup (5050703-BSD1)					Prepared: 07-May-15 Analyzed: 12-May-15					
Sulfate	18.2	100	mg/kg	20.0		91.0	80-120	6.70	20	
Batch 5050704 - General Prep - Wet Chem										
Blank (5050704-BLK1)					Prepared: 07-May-15 Analyzed: 12-May-15					
Sulfate	ND	100	mg/kg							

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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5050704 - General Prep - Wet Chem

LCS (5050704-BS1)				Prepared: 07-May-15 Analyzed: 12-May-15						
Sulfate	20.5	10.0	mg/kg	20.0		102	80-120			
LCS Dup (5050704-BSD1)				Prepared: 07-May-15 Analyzed: 12-May-15						
Sulfate	17.9	10.0	mg/kg	20.0		89.6	80-120	13.4	20	

Batch 5052707 - General Prep

Blank (5052707-BLK1)				Prepared & Analyzed: 07-May-15						
Phenols	ND	0.5	mg/kg dry wt.							
Blank (5052707-BLK2)				Prepared & Analyzed: 07-May-15						
Phenols	ND	0.5	mg/kg dry wt.							
Blank (5052707-BLK3)				Prepared & Analyzed: 11-May-15						
Phenols	ND	0.5	mg/kg dry wt.							
LCS (5052707-BS1)				Prepared & Analyzed: 07-May-15						
Phenols	0.4		mg/kg	0.400		88.8	70-130			
LCS (5052707-BS2)				Prepared & Analyzed: 07-May-15						
Phenols	0.3		mg/kg	0.400		85.8	70-130			
LCS (5052707-BS3)				Prepared & Analyzed: 11-May-15						
Phenols	0.5		mg/kg	0.400		122	70-130			
Matrix Spike (5052707-MS1)				Source: H50H14-01 Prepared & Analyzed: 07-May-15						
Phenols	16.9		mg/kg	20.0	0.0	84.7	70-130			

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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5052707 - General Prep										
Matrix Spike (5052707-MS2)										
Phenols	20.4	Source: H501114-08	mg/kg	20.0	0.0	102	70-130			Prepared & Analyzed: 07-May-15
Matrix Spike (5052707-MS3)										
Phenols	17.5	Source: H501114-25	mg/kg	20.0	3.0	72.1	70-130			Prepared & Analyzed: 11-May-15
Matrix Spike Dup (5052707-MSD1)										
Phenols	18.3	Source: H501114-01	mg/kg	20.0	0.0	91.7	70-130	7.94	20	Prepared & Analyzed: 07-May-15
Matrix Spike Dup (5052707-MSD2)										
Phenols	18.0	Source: H501114-08	mg/kg	20.0	0.0	90.2	70-130	12.2	20	Prepared & Analyzed: 07-May-15
Matrix Spike Dup (5052707-MSD3)										
Phenols	17.8	Source: H501114-25	mg/kg	20.0	3.0	73.9	70-130	1.70	20	Prepared & Analyzed: 11-May-15

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Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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Organic Compounds - Quality Control
Cardinal Laboratories

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5050504 - Solvent Extraction										
Blank (5050504-BLK1)										
TPH 418.1	ND	100	mg/kg	Prepared & Analyzed: 05-May-15						
LCS (5050504-BS1)										
TPH 418.1	5020	100	mg/kg	5000		100	70-130			
LCS Dup (5050504-BSD1)										
TPH 418.1	5370	100	mg/kg	5000		107	70-130	6.84	20	
Batch 5051809 - Solvent Extraction										
Blank (5051809-BLK1)										
TPH 418.1	ND	20.0	mg/kg	Prepared: 19-May-15 Analyzed: 20-May-15						
LCS (5051809-BS1)										
TPH 418.1	5310	20.0	mg/kg	5000		106	70-130			
LCS Dup (5051809-BSD1)										
TPH 418.1	5300	20.0	mg/kg	5000		106	70-130	0.170	20	

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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

PCBs BY GC/ECD - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5052703 - 3550

Blank (5052703-BL.K1)

Prepared: 30-Apr-15 Analyzed: 01-May-15

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	8.59		ug/L	10.0		85.9	35-140			
Surrogate: Decachlorobiphenyl	8.47		ug/L	10.0		84.7	35-140			

LCS (5052703-BS1)

Prepared: 30-Apr-15 Analyzed: 01-May-15

PCB 1016	7.21		ug/L	10.0		72.1	40-130			
PCB 1260	6.80		ug/L	10.0		68.0	40-130			
Surrogate: Tetrachloro-meta-xylene	6.65		ug/L	10.0		66.5	35-140			
Surrogate: Decachlorobiphenyl	7.43		ug/L	10.0		74.3	35-140			

Matrix Spike (5052703-MS1)

Source: H501114-01

Prepared: 30-Apr-15 Analyzed: 01-May-15

PCB 1016	6.08		ug/L	10.0	ND	60.8	40-130			
PCB 1260	6.80		ug/L	10.0	ND	68.0	40-130			
Surrogate: Tetrachloro-meta-xylene	5.19		ug/L	10.0		51.9	35-140			
Surrogate: Decachlorobiphenyl	6.54		ug/L	10.0		65.4	35-140			

Matrix Spike Dup (5052703-MSD1)

Source: H501114-01

Prepared: 30-Apr-15 Analyzed: 01-May-15

PCB 1016	7.42		ug/L	10.0	ND	74.2	40-130	10.0	30	
PCB 1260	7.84		ug/L	10.0	ND	78.4	40-130	14.2	30	
Surrogate: Tetrachloro-meta-xylene	5.13		ug/L	10.0		51.3	35-140			
Surrogate: Decachlorobiphenyl	6.67		ug/L	10.0		66.7	35-140			

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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

PCBs BY GC/ECD - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5052704 - 3550

Blank (5052704-BL K1)

Prepared & Analyzed: 30-Apr-15

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	5.61		ug/L	10.0		56.1	35-140			
Surrogate: Decachlorobiphenyl	6.46		ug/L	10.0		64.6	35-140			

LCS (5052704-BS1)

Prepared & Analyzed: 30-Apr-15

PCB 1016	6.68		ug/L	10.0		66.8	40-130			
PCB 1260	6.38		ug/L	10.0		63.8	40-130			
Surrogate: Tetrachloro-meta-xylene	6.96		ug/L	10.0		69.6	35-140			
Surrogate: Decachlorobiphenyl	8.02		ug/L	10.0		80.2	35-140			

Matrix Spike (5052704-MS1)

Source: H501114-21

Prepared & Analyzed: 30-Apr-15

PCB 1016	4.72		ug/L	10.0	ND	47.2	40-130			
PCB 1260	8.32		ug/L	10.0	ND	83.2	40-130			
Surrogate: Tetrachloro-meta-xylene	5.34		ug/L	10.0		53.4	35-140			
Surrogate: Decachlorobiphenyl	6.89		ug/L	10.0		68.9	35-140			

Matrix Spike Dup (5052704-MSD1)

Source: H501114-21

Prepared & Analyzed: 30-Apr-15

PCB 1016	4.83		ug/L	10.0	ND	48.3	40-130	2.30	30	
PCB 1260	8.32		ug/L	10.0	ND	83.2	40-130	0.00	30	
Surrogate: Tetrachloro-meta-xylene	5.63		ug/L	10.0		56.3	35-140			
Surrogate: Decachlorobiphenyl	5.91		ug/L	10.0		59.1	35-140			

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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5043001 - Volatiles**Blank (5043001-BLK1)**

Prepared: 30-Apr-15 Analyzed: 01-May-15

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	0.0173	0.0500	mg/kg							
Surrogate: Dibromofluoromethane	0.471		mg/kg	0.500		94.1	80.8-114			
Surrogate: Toluene-d8	0.512		mg/kg	0.500		102	83.7-121			
Surrogate: 4-Bromofluorobenzene	0.471		mg/kg	0.500		94.1	57.9-154			

I.C.S (5043001-BS1)

Prepared: 30-Apr-15 Analyzed: 01-May-15

Vinyl chloride	1.72	0.0500	mg/kg	2.00		86.1	27.3-182			
1,1-Dichloroethene	1.84	0.0500	mg/kg	2.00		92.2	49.8-244			
Methylene chloride	1.83	0.0500	mg/kg	2.00		91.6	39.3-197			
1,1-Dichloroethane	2.03	0.0500	mg/kg	2.00		101	54.8-185			
Chloroform	1.96	0.0500	mg/kg	2.00		97.9	58.3-118			
Carbon tetrachloride	1.95	0.0500	mg/kg	2.00		97.7	63.1-149			
1,1,1-Trichloroethane	2.10	0.0500	mg/kg	2.00		105	63.5-152			

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

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 5043001 - Volatiles										
LCS (5043001-BS1)										
Prepared: 30-Apr-15 Analyzed: 01-May-15										
Benzene	1.95	0.0500	mg/kg	2.00		97.4	78.3-139			
1,2-Dichloroethane	1.79	0.0500	mg/kg	2.00		89.7	41.8-156			
Trichloroethene	1.93	0.0500	mg/kg	2.00		96.4	60.7-142			
Toluene	1.89	0.0500	mg/kg	2.00		94.5	75.1-137			
Tetrachloroethene	2.05	0.0500	mg/kg	2.00		102	66-153			
1,1,2-Trichloroethane	1.79	0.0500	mg/kg	2.00		89.7	57.8-129			
1,2-Dibromoethane	1.88	0.0500	mg/kg	2.00		94.2	67.2-120			
Ethylbenzene	1.95	0.0500	mg/kg	2.00		97.4	71.7-131			
m-p Xylenes	4.09	0.100	mg/kg	4.00		102	70-130			
o-Xylene	2.04	0.0500	mg/kg	2.00		102	69.8-132			
Total Xylenes	6.13	0.150	mg/kg	6.00		102	70.9-136			
1,1,2,2-Tetrachloroethane	1.71	0.0500	mg/kg	2.00		85.3	42.4-125			
Naphthalene	2.25	0.0500	mg/kg	2.00		113	28.2-126			
Surrogate: Dibromofluoromethane	0.505		mg/kg	0.500		101	50.8-114			
Surrogate: Toluene-d8	0.493		mg/kg	0.500		98.5	83.7-121			
Surrogate: 4-Bromofluorobenzene	0.487		mg/kg	0.500		97.5	57.9-154			
LCS Dup (5043001-BS1)										
Prepared: 30-Apr-15 Analyzed: 01-May-15										
Vinyl chloride	1.74	0.0500	mg/kg	2.00		86.9	27.3-182	0.870	27.6	
1,1-Dichloroethene	1.84	0.0500	mg/kg	2.00		92.1	49.8-244	0.0662	29.8	
Methylene chloride	1.80	0.0500	mg/kg	2.00		89.9	39.3-197	1.96	37.6	
1,1-Dichloroethane	2.07	0.0500	mg/kg	2.00		103	54.8-185	1.94	37.3	
Chloroform	1.96	0.0500	mg/kg	2.00		97.8	58.3-148	0.0148	35	
Carbon tetrachloride	1.92	0.0500	mg/kg	2.00		96.0	63.1-149	1.77	33.1	
1,1,1-Trichloroethane	2.07	0.0500	mg/kg	2.00		104	63.5-152	1.12	33.8	
Benzene	1.96	0.0500	mg/kg	2.00		98.1	78.3-139	0.653	17.9	
1,2-Dichloroethane	1.77	0.0500	mg/kg	2.00		88.6	41.8-156	1.22	34.1	
Trichloroethene	1.93	0.0500	mg/kg	2.00		96.7	60.7-142	0.300	36.2	
Toluene	1.96	0.0500	mg/kg	2.00		98.2	75.1-137	3.86	20.7	
Tetrachloroethene	2.16	0.0500	mg/kg	2.00		103	66-153	5.29	58.9	
1,1,2-Trichloroethane	1.83	0.0500	mg/kg	2.00		91.5	57.8-129	2.01	38.9	
1,2-Dibromoethane	1.93	0.0500	mg/kg	2.00		96.5	67.2-120	2.45	34.4	

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Deley D. Keene
Deley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5043001 - Volatiles**LCS Dup (5043001-BSD1)**

Prepared: 30-Apr-15 Analyzed: 01-May-15

Ethylbenzene	2.05	0.0500	mg/kg	2.00		103	71.7-131	5.29	18.5	
m-p Xylenes	4.24	0.100	mg/kg	4.00		106	70-130	3.50	20	
o-Xylene	2.12	0.0500	mg/kg	2.00		106	69.8-132	3.98	18.8	
Total Xylenes	6.36	0.150	mg/kg	6.00		106	70.9-136	3.66	19.9	
1,1,2,2-Tetrachloroethane	1.72	0.0500	mg/kg	2.00		86.2	42.4-125	1.05	32.2	
Naphthalene	2.20	0.0500	mg/kg	2.00		110	28.2-126	2.21	35	
Surrogate: Dibromofluoromethane	0.470		mg/kg	0.500		94.1	50.8-114			
Surrogate: Toluene-d8	0.511		mg/kg	0.500		102	83.7-121			
Surrogate: 4-Bromofluorobenzene	0.508		mg/kg	0.500		102	57.9-154			

Batch 5043004 - Volatiles**Blank (5043004-BLK1)**

Prepared: 30-Apr-15 Analyzed: 02-May-15

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							

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Coley D. Koene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

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 5043004 - Volatiles										
Blank (5043004-BLK1)										
					Prepared: 30-Apr-15 Analyzed: 02-May-15					
Naphthalene	ND	0.0500	mg/kg							
Surrogate: Dibromofluoromethane	0.488		mg/kg	0.500		97.7	80.8-114			
Surrogate: Toluene-d8	0.489		mg/kg	0.500		97.9	83.7-121			
Surrogate: 4-Bromofluorobenzene	0.487		mg/kg	0.500		97.3	57.9-154			
LCS (5043004-BS1)										
					Prepared: 30-Apr-15 Analyzed: 02-May-15					
Vinyl chloride	1.68	0.0500	mg/kg	2.00		84.2	27.3-182			
1,1-Dichloroethene	1.72	0.0500	mg/kg	2.00		86.0	49.8-244			
Methylene chloride	1.80	0.0500	mg/kg	2.00		89.8	39.3-197			
1,1-Dichloroethane	2.00	0.0500	mg/kg	2.00		99.9	54.8-185			
Chloroform	1.95	0.0500	mg/kg	2.00		97.3	58.3-148			
Carbon tetrachloride	1.94	0.0500	mg/kg	2.00		97.1	63.1-149			
1,1,1-Trichloroethane	2.11	0.0500	mg/kg	2.00		105	63.5-152			
Benzene	1.92	0.0500	mg/kg	2.00		95.9	78.3-139			
1,2-Dichloroethane	1.78	0.0500	mg/kg	2.00		89.1	41.8-156			
Trichloroethene	1.91	0.0500	mg/kg	2.00		95.7	60.7-142			
Toluene	1.87	0.0500	mg/kg	2.00		93.5	75.1-137			
Tetrachloroethene	2.05	0.0500	mg/kg	2.00		102	66-153			
1,1,2-Trichloroethane	1.77	0.0500	mg/kg	2.00		88.4	57.8-129			
1,2-Dibromoethane	1.92	0.0500	mg/kg	2.00		95.9	67.2-120			
Ethylbenzene	2.00	0.0500	mg/kg	2.00		100	71.7-131			
m-p Xylenes	4.11	0.100	mg/kg	4.00		103	70-130			
o-Xylene	2.08	0.0500	mg/kg	2.00		104	69.8-132			
Total Xylenes	6.19	0.150	mg/kg	6.00		103	70.9-136			
1,1,2,2-Tetrachloroethane	1.66	0.0500	mg/kg	2.00		83.0	42.4-125			
Naphthalene	2.17	0.0500	mg/kg	2.00		109	28.2-126			
Surrogate: Dibromofluoromethane	0.484		mg/kg	0.500		96.9	80.8-114			
Surrogate: Toluene-d8	0.500		mg/kg	0.500		100	83.7-121			
Surrogate: 4-Bromofluorobenzene	0.478		mg/kg	0.500		95.7	57.9-154			

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5043004 - Volatiles

LCS Dup (5043004-BSD1)

Prepared: 30-Apr-15 Analyzed: 02-May-15

Vinyl chloride	1.70	0.0500	mg/kg	2.00		84.9	27.3-182	0.817	27.6	
1,1-Dichloroethene	1.76	0.0500	mg/kg	2.00		88.0	49.8-244	2.29	29.8	
Methylene chloride	1.79	0.0500	mg/kg	2.00		89.4	39.3-197	0.480	37.6	
1,1-Dichloroethane	1.94	0.0500	mg/kg	2.00		96.8	54.8-185	3.12	37.3	
Chloroform	1.90	0.0500	mg/kg	2.00		95.1	58.3-148	2.32	35	
Carbon tetrachloride	1.90	0.0500	mg/kg	2.00		94.9	63.1-149	2.28	33.1	
1,1,1-Trichloroethane	2.03	0.0500	mg/kg	2.00		102	63.5-152	3.52	33.8	
Benzene	1.88	0.0500	mg/kg	2.00		94.0	78.3-139	1.94	17.9	
1,2-Dichloroethane	1.74	0.0500	mg/kg	2.00		87.1	41.8-156	2.32	34.1	
Trichloroethene	1.87	0.0500	mg/kg	2.00		93.7	60.7-142	2.16	36.2	
Toluene	1.82	0.0500	mg/kg	2.00		91.2	75.1-137	2.45	20.7	
Tetrachloroethene	2.02	0.0500	mg/kg	2.00		101	66-153	1.47	58.9	
1,1,2-Trichloroethane	1.72	0.0500	mg/kg	2.00		86.1	57.8-129	2.65	38.9	
1,2-Dibromoethane	1.87	0.0500	mg/kg	2.00		93.5	67.2-120	2.52	34.4	
Ethylbenzene	1.94	0.0500	mg/kg	2.00		96.8	71.7-131	3.17	18.5	
m-p Xylenes	4.02	0.100	mg/kg	4.00		100	70-130	2.27	20	
o-Xylene	2.05	0.0500	mg/kg	2.00		102	69.8-132	1.44	18.8	
Total Xylenes	6.06	0.150	mg/kg	6.00		101	70.9-136	1.99	19.9	
1,1,2,2-Tetrachloroethane	1.61	0.0500	mg/kg	2.00		80.4	42.4-125	3.14	32.2	
Naphthalene	2.11	0.0500	mg/kg	2.00		105	28.2-126	2.97	35	
Surrogate: Dibromofluoromethane	0.501		mg/kg	0.500		100	80.8-114			
Surrogate: Toluene-d8	0.496		mg/kg	0.500		99.3	83.7-121			
Surrogate: 1-Bromofluorobenzene	0.492		mg/kg	0.500		96.4	57.9-154			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

Semivolatile Organic Compounds by GCMS - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5050305 - SW846-3510**Blank (5050305-BLK1)**

Prepared: 03-May-15 Analyzed: 08-May-15

Naphthalene	0.018	0.040	mg/kg							
2-Methylnaphthalene	ND	0.040	mg/kg							J
1-Methylnaphthalene	ND	0.020	mg/kg							
Acenaphthylene	ND	0.040	mg/kg							
Acenaphthene	ND	0.010	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	0.021	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							J
Chrysene	0.012	0.040	mg/kg							
Benzo[b]fluoranthene	ND	0.040	mg/kg							J
Benzo[k]fluoranthene	0.022	0.040	mg/kg							
Benzo[a]pyrene	0.010	0.040	mg/kg							J
Indeno[1,2,3-cd]pyrene	ND	0.040	mg/kg							J
Dibenz[a,h]anthracene	ND	0.040	mg/kg							
Benzo[g,h,i]perylene	ND	0.040	mg/kg							
Surrogate: Nitrobenzene-d5	0.867		mg/kg	2.00		43.3	20.4-109			
Surrogate: 2-Fluorobiphenyl	0.668		mg/kg	2.00		33.1	23.4-133			
Surrogate: Terphenyl-d14	1.14		mg/kg	2.00		56.9	38.4-163			

LCS (5050305-BST)

Prepared: 03-May-15 Analyzed: 08-May-15

Naphthalene	0.183	0.040	mg/kg	0.400		45.8	33.8-147			
2-Methylnaphthalene	0.184	0.010	mg/kg	0.100		15.9	41.4-151			
Acenaphthylene	0.154	0.010	mg/kg	0.400		38.6	39.2-150			BS2
Acenaphthene	0.145	0.010	mg/kg	0.100		36.4	39.3-154			BS2
Fluorene	0.112	0.010	mg/kg	0.400		35.6	40.4-158			BS2
Phenanthrene	0.180	0.040	mg/kg	0.400		44.9	34.7-161			
Anthracene	0.176	0.040	mg/kg	0.100		11.0	33.5-162			
Carbazole	0.177	0.040	mg/kg	0.400		44.2	31.6-163			

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Celey D. Keene, Lab Director/Quality Manager



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Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

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27-May-15 16:13

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5050305 - SW846-3510

LCS (5050305-BS1)

Prepared: 03-May-15 Analyzed: 08-May-15

Fluoranthene	0.201	0.040	mg/kg	0.400		50.2	38.5-165			
Pyrene	0.199	0.040	mg/kg	0.400		49.8	28-180			
Benzo[a]anthracene	0.205	0.040	mg/kg	0.400		51.1	28.6-167			
Chrysene	0.202	0.040	mg/kg	0.400		50.4	27.7-171			
Benzo[b]fluoranthene	0.168	0.040	mg/kg	0.400		42.1	24-168			
Benzo[k]fluoranthene	0.185	0.040	mg/kg	0.400		46.2	28.9-170			
Benzo[a]pyrene	0.179	0.040	mg/kg	0.400		44.8	27.2-163			
Indeno[1,2,3-cd]pyrene	0.169	0.040	mg/kg	0.400		42.3	21.9-162			
Dibenz[a,h]anthracene	0.171	0.040	mg/kg	0.100		42.8	19-164			
Benzo[g,h,i]perylene	0.167	0.040	mg/kg	0.400		41.7	14.1-172			
Surrogate: Nitrobenzene-d5	1.11		mg/kg	2.00		55.3	20.4-109			
Surrogate: 2-Fluorobiphenyl	0.804		mg/kg	2.00		40.2	23.4-133			
Surrogate: Toluene-d8	1.18		mg/kg	2.00		59.1	38.4-163			

LCS Dup (5050305-BSD1)

Prepared: 03-May-15 Analyzed: 08-May-15

Naphthalene	0.184	0.040	mg/kg	0.400		46.0	33.8-147	0.452	20	
2-Methylnaphthalene	0.190	0.040	mg/kg	0.400		47.5	41.4-151	3.49	20	
Acenaphthylene	0.162	0.040	mg/kg	0.400		10.4	39.2-150	4.68	20	
Acenaphthene	0.157	0.040	mg/kg	0.400		39.2	39.3-154	7.47	20	BS2
Fluorene	0.160	0.040	mg/kg	0.400		39.9	40.4-158	11.3	20	BS2
Phenanthrene	0.198	0.040	mg/kg	0.400		49.6	34.7-164	9.90	20	
Anthracene	0.199	0.040	mg/kg	0.400		49.8	33.5-162	12.5	20	
Carbazole	0.203	0.040	mg/kg	0.400		50.8	31.6-163	13.8	20	
Fluoranthene	0.203	0.040	mg/kg	0.400		50.6	38.5-165	0.863	20	
Pyrene	0.196	0.040	mg/kg	0.400		48.9	28-180	1.75	20	
Benzo[a]anthracene	0.206	0.040	mg/kg	0.400		51.4	28.6-167	0.527	20	
Chrysene	0.200	0.040	mg/kg	0.400		50.1	27.7-171	0.602	20	
Benzo[b]fluoranthene	0.168	0.040	mg/kg	0.100		42.1	24-168	0.0119	21.5	
Benzo[k]fluoranthene	0.186	0.040	mg/kg	0.400		46.6	28.9-170	0.781	20.5	
Benzo[a]pyrene	0.179	0.040	mg/kg	0.400		44.8	27.2-163	0.0112	20	
Indeno[1,2,3-cd]pyrene	0.170	0.040	mg/kg	0.400		42.6	21.9-162	0.819	32.1	
Dibenz[a,h]anthracene	0.175	0.040	mg/kg	0.400		43.6	19-164	1.82	30.5	

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Coley D. Keene, Lab Director/Quality Manager



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27-May-15 16:13

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5050305 - SW846-3510

LCS Dup (5050305-BSD1)

Prepared: 03-May-15 Analyzed: 08-May-15

Benzo[g,h,i]perylene	0.168	0.040	mg/kg	0.400		41.9	14.1-172	0.514	39.3	
Surrogate: Nitrobenzene-d5	1.08		mg/kg	2.00		53.9	20.4-109			
Surrogate: 2-Fluorobiphenyl	0.804		mg/kg	2.00		40.2	23.4-133			
Surrogate: Terphenyl-d4	1.18		mg/kg	2.00		58.9	39.4-163			

Batch 5050306 - SW846-3510

Blank (5050306-BLK1)

Prepared: 03-May-15 Analyzed: 11-May-15

Naphthalene	ND	0.040	mg/kg							
2-Methylnaphthalene	ND	0.040	mg/kg							
1-Methylnaphthalene	ND	0.020	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	0.021	0.040	mg/kg							
Benzo[a]anthracene	ND	0.040	mg/kg							J
Chrysene	0.014	0.040	mg/kg							J
Benzo[b]fluoranthene	ND	0.040	mg/kg							
Benzo[k]fluoranthene	ND	0.040	mg/kg							
Benzo[a]pyrene	0.014	0.040	mg/kg							J
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	1.38		mg/kg	2.00		69.2	20.4-109			
Surrogate: 2-Fluorobiphenyl	1.19		mg/kg	2.00		54.8	23.4-133			
Surrogate: Terphenyl-d4	1.75		mg/kg	2.00		87.6	39.4-163			

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Coley D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

Semivolatile Organic Compounds by GCMS - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5050306 - SW846-3510

LCS (5050306-BS1)

Prepared: 03-May-15 Analyzed: 11-May-15

Naphthalene	0.230	0.040	mg/kg	0.400		57.5	33.8-147			
2-Methylnaphthalene	0.244	0.040	mg/kg	0.400		61.0	41.4-151			
Acenaphthylene	0.275	0.040	mg/kg	0.400		68.7	39.2-150			
Acenaphthene	0.241	0.040	mg/kg	0.400		60.2	39.3-154			
Fluorene	0.236	0.040	mg/kg	0.400		58.9	40.4-158			
Phenanthrene	0.247	0.040	mg/kg	0.400		61.8	34.7-164			
Anthracene	0.247	0.040	mg/kg	0.400		61.8	33.5-162			
Carbazole	0.244	0.040	mg/kg	0.400		61.1	31.6-163			
Fluoranthene	0.331	0.040	mg/kg	0.400		82.6	38.5-165			
Pyrene	0.232	0.040	mg/kg	0.400		57.9	28-180			
Benzo[a]anthracene	0.244	0.040	mg/kg	0.400		61.0	28.6-167			
Chrysene	0.242	0.040	mg/kg	0.400		60.6	27.7-171			
Benzo[b]fluoranthene	0.170	0.040	mg/kg	0.400		42.4	24-168			
Benzo[k]fluoranthene	0.204	0.040	mg/kg	0.400		51.0	28.9-170			
Benzo[a]pyrene	0.269	0.040	mg/kg	0.400		67.3	27.2-163			
Indeno[1,2,3-cd]pyrene	0.252	0.040	mg/kg	0.400		63.1	21.9-162			
Dibenz[a,h]anthracene	0.260	0.040	mg/kg	0.400		64.9	19-164			
Benzo[g,h,i]perylene	0.247	0.040	mg/kg	0.400		61.6	14.1-172			
Surrogate: Nitrobenzene-d5	1.33		mg/kg	2.00		66.4	20.1-109			
Surrogate: 2-Fluorobiphenyl	1.34		mg/kg	2.00		67.0	23.4-133			
Surrogate: Terphenyl-d14	1.77		mg/kg	2.00		88.3	38.4-163			

LCS Dup (5050306-BSD1)

Prepared: 03-May-15 Analyzed: 11-May-15

Naphthalene	0.224	0.040	mg/kg	0.400		56.0	33.8-147	2.53	20	
2-Methylnaphthalene	0.238	0.040	mg/kg	0.400		59.6	41.4-151	2.35	20	
Acenaphthylene	0.234	0.040	mg/kg	0.400		58.5	39.2-150	16.1	20	
Acenaphthene	0.240	0.040	mg/kg	0.400		60.1	39.3-154	0.212	20	
Fluorene	0.218	0.040	mg/kg	0.400		62.0	40.4-158	5.12	20	
Phenanthrene	0.283	0.040	mg/kg	0.400		70.8	34.7-164	13.6	20	
Anthracene	0.299	0.040	mg/kg	0.400		74.8	33.5-162	19.1	20	
Carbazole	0.326	0.040	mg/kg	0.400		81.4	31.6-163	28.5	20	
Fluoranthene	0.377	0.040	mg/kg	0.400		94.3	38.5-165	13.2	20	QR-02

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Cefey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

Semivolatile Organic Compounds by GCMS - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5050306 - SW846-3510										
LCS Dup (5050306-BSD1)										
Prepared: 03-May-15 Analyzed: 11-May-15										
Pyrene	0.319	0.040	mg/kg	0.400		79.8	28-180	31.8	20	QR-02
Benzo[a]anthracene	0.240	0.040	mg/kg	0.400		60.1	28.6-167	1.48	20	
Chrysene	0.236	0.040	mg/kg	0.400		59.0	27.7-171	2.64	20	
Benzo[b]fluoranthene	0.213	0.040	mg/kg	0.400		53.3	24-168	22.8	21.5	QR-02
Benzo[k]fluoranthene	0.252	0.040	mg/kg	0.400		63.0	28.9-170	21.0	20.5	QR-02
Benzo[a]pyrene	0.249	0.040	mg/kg	0.400		62.4	27.2-163	7.62	20	
Indeno[1,2,3-cd]pyrene	0.236	0.040	mg/kg	0.400		59.0	21.9-162	6.72	32.1	
Dibenz[a,h]anthracene	0.244	0.040	mg/kg	0.400		61.0	19-164	6.28	30.5	
Benzo[g,h,i]perylene	0.226	0.040	mg/kg	0.400		56.6	14.1-172	8.56	39.3	
Surrogate: Nitrobenzene-d5	1.72		mg/kg	2.00		86.0	20.4-109			
Surrogate: 2-Fluorobiphenyl	1.31		mg/kg	2.00		65.4	23.4-133			
Surrogate: Terphenyl-d14	2.20		mg/kg	2.00		110	38.4-163			

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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

General Chemistry - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B505011 - General Prep - Wet Chem										
Duplicate (B505011-DUP1)										
Source: H501114-01					Prepared: 01-May-15 Analyzed: 04-May-15					
% Dry Solids	91.8		%		91.8			0.00	20	
Duplicate (B505011-DUP2)										
Source: H501114-11					Prepared: 01-May-15 Analyzed: 04-May-15					
% Dry Solids	94.8		%		94.8			0.0422	20	
Duplicate (B505011-DUP3)										
Source: H501114-21					Prepared: 01-May-15 Analyzed: 04-May-15					
% Dry Solids	91.9		%		91.7			0.229	20	
Batch B505074 - General Prep - Wet Chem										
Blank (B505074-BLK1)										
Prepared: 04-May-15 Analyzed: 06-May-15										
Cyanide, Total	ND	1.00	mg/kg wet							
LCS (B505074-BS1)										
Prepared: 04-May-15 Analyzed: 06-May-15										
Cyanide, Total	94.1	1.00	mg/kg wet	100	94.1		80-120			
LCS Dup (B505074-BSD1)										
Prepared: 04-May-15 Analyzed: 06-May-15										
Cyanide, Total	93.8	1.00	mg/kg wet	100	93.8		80-120	0.319	20	
Batch B505075 - General Prep - Wet Chem										
Blank (B505075-BLK1)										
Prepared: 04-May-15 Analyzed: 06-May-15										
Cyanide, Total	ND	1.00	mg/kg wet							
LCS (B505075-BS1)										
Prepared: 04-May-15 Analyzed: 06-May-15										
Cyanide, Total	91.9	1.00	mg/kg wet	100	91.9		80-120			

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Ceiley D. Keene
Ceiley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

General Chemistry - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B505075 - General Prep - Wet Chem										
LCS Dup (B505075-BSD1)					Prepared: 04-May-15 Analyzed: 06-May-15					
Cyanide, Total	91.8	1.00	mg/kg wet	100		91.8	80-120	0.109	20	
Batch B505076 - General Prep - Wet Chem										
Blank (B505076-BLK1)					Prepared & Analyzed: 06-May-15					
Cyanide, Total	ND	0.0100	mg/kg wet							
LCS (B505076-BS1)					Prepared & Analyzed: 06-May-15					
Cyanide, Total	90.5	1.00	mg/kg wet	100		90.5	80-120			
LCS Dup (B505076-BSD1)					Prepared & Analyzed: 06-May-15					
Cyanide, Total	90.7	1.00	mg/kg wet	100		90.7	80-120	0.221	20	
Batch B505077 - General Prep - Wet Chem										
Blank (B505077-BLK1)					Prepared & Analyzed: 06-May-15					
Cyanide, Total	ND	1.00	mg/kg wet							
LCS (B505077-BS1)					Prepared & Analyzed: 06-May-15					
Cyanide, Total	11.4	1.00	mg/kg wet	10.0		11.4	80-120			
LCS Dup (B505077-BSD1)					Prepared & Analyzed: 06-May-15					
Cyanide, Total	11.4	1.00	mg/kg wet	10.0		11.4	80-120	0.00	20	
Batch B505078 - General Prep - Wet Chem										
Blank (B505078-BLK1)					Prepared: 07-May-15 Analyzed: 08-May-15					
Cyanide, Total	ND	1.00	mg/kg wet							

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Celey D. Keone, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

General Chemistry - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	*REC	*REC Limit	RPD	RPD Limit	Notes
Batch B505078 - General Prep - Wet Chem										
LCS (B505078-BS1)										
					Prepared: 07-May-15 Analyzed: 08-May-15					
Cyanide, Total	88.5	1.00	mg/kg wet	100		88.5	80-120			
LCS Dup (B505078-BSD1)										
					Prepared: 07-May-15 Analyzed: 08-May-15					
Cyanide, Total	90.6	1.00	mg/kg wet	100		90.6	80-120	2.35	20	

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Analytical Results For:

Basin Environmental Service	Project: J & L LANDFARM	Reported:
P.O. Box 301	Project Number: NOT GIVEN	27-May-15 16:13
Lovington NM, 88260	Project Manager: JACOB KAMPLAIN	
	Fax To: (575) 396-1429	

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B505066 - General Prep - Wet Chem

Blank (B505066-BLK1)	Prepared & Analyzed: 07-May-15									
Nitrate/Nitrite as N	ND	0.020	mg/kg wet							

LCS (B505066-BS1)	Prepared & Analyzed: 07-May-15									
Nitrate/Nitrite as N	1.02	0.020	mg/kg wet	1.00		102	80-120			

LCS Dup (B505066-BSD1)	Prepared & Analyzed: 07-May-15									
Nitrate/Nitrite as N	1.01	0.020	mg/kg wet	1.00		101	80-120	0.985	20	

Batch B505067 - General Prep - Wet Chem

Blank (B505067-BLK1)	Prepared & Analyzed: 07-May-15									
Nitrate/Nitrite as N	0.027	0.020	mg/kg wet							

LCS (B505067-BS1)	Prepared & Analyzed: 07-May-15									
Nitrate/Nitrite as N	1.04	0.020	mg/kg wet	1.00		104	80-120			

LCS Dup (B505067-BSD1)	Prepared & Analyzed: 07-May-15									
Nitrate/Nitrite as N	1.07	0.020	mg/kg wet	1.00		107	80-120	2.84	20	

Batch B505070 - General Prep - Wet Chem

Blank (B505070-BLK1)	Prepared & Analyzed: 07-May-15									
Nitrite as N	0.006	0.020	mg/kg wet							Ja

LCS (B505070-BS1)	Prepared & Analyzed: 07-May-15									
Nitrite as N	0.222	0.020	mg/kg wet	0.200		111	80-120			

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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B505070 - General Prep - Wet Chem										
LCS Dup (B505070-BSD1)					Prepared & Analyzed: 07-May-15					
Nitrite as N	0.224	0.020	mg/kg wet	0.200		112	80-120	0.897	20	
Batch B505071 - General Prep - Wet Chem										
Blank (B505071-BLK1)					Prepared: 06-May-15 Analyzed: 07-May-15					
Nitrite as N	0.008	0.020	mg/kg wet							Ja
LCS (B505071-BS1)					Prepared: 06-May-15 Analyzed: 07-May-15					
Nitrite as N	0.228	0.020	mg/kg wet	0.200		114	80-120			
LCS Dup (B505071-BSD1)					Prepared: 06-May-15 Analyzed: 07-May-15					
Nitrite as N	0.228	0.020	mg/kg wet	0.200		114	80-120	0.00	20	
Batch B505119 - General Prep - Wet Chem										
Blank (B505119-BLK1)					Prepared & Analyzed: 14-May-15					
Fluoride	ND	0.250	mg/kg wet							
LCS (B505119-BS1)					Prepared & Analyzed: 14-May-15					
Fluoride	1.07	0.250	mg/kg wet	1.00		107	85-115			
LCS Dup (B505119-BSD1)					Prepared & Analyzed: 14-May-15					
Fluoride	0.970	0.250	mg/kg wet	1.00		97.0	85-115	9.62	20	
Batch B505120 - General Prep - Wet Chem										
Blank (B505120-BLK1)					Prepared & Analyzed: 14-May-15					
Fluoride	ND	0.250	mg/kg wet							

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Analytical Results For:

Basin Environmental Service P.O. Box 301 Lovington NM, 88260	Project: J & L LANDFARM Project Number: NOT GIVEN Project Manager: JACOB KAMPLAIN Fax To: (575) 396-1429	Reported: 27-May-15 16:13
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Soluble (DI Water Extraction) - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B505120 - General Prep - Wet Chem										
LCS (B505120-BS1)					Prepared & Analyzed: 14-May-15					
Fluoride	1.07	0.250	mg/kg wet	1.00		107	85-115			
LCS Dup (B505120-BSD1)					Prepared & Analyzed: 14-May-15					
Fluoride	0.970	0.250	mg/kg wet	1.00		97.0	85-115	9.62	20	

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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

Total Metals by ICP - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B505052 - EPA 3050

Blank (B505052-BLK1)

Prepared & Analyzed: 07-May-15

Iron	0.057	0.050	mg/kg dry							BI
Zinc	ND	0.050	mg/kg dry							
Barium	ND	0.010	mg/kg dry							
Manganese	ND	0.005	mg/kg dry							

LCS (B505052-BS1)

Prepared & Analyzed: 07-May-15

Zinc	1.77	0.050	mg/kg dry	2.00		88.4	85-115			
Barium	1.75	0.010	mg/kg dry	2.00		87.4	85-115			
Iron	3.77	0.050	mg/kg dry	4.00		94.2	85-115			
Manganese	1.80	0.005	mg/kg dry	2.00		90.2	85-115			

LCS Dup (B505052-BSD1)

Prepared & Analyzed: 07-May-15

Barium	1.74	0.010	mg/kg dry	2.00		87.2	85-115	0.176	20	
Zinc	1.75	0.050	mg/kg dry	2.00		87.7	85-115	0.878	20	
Iron	3.73	0.050	mg/kg dry	4.00		93.2	85-115	1.10	20	
Manganese	1.79	0.005	mg/kg dry	2.00		89.3	85-115	0.932	20	

Batch B505053 - EPA 3050

Blank (B505053-BLK1)

Prepared & Analyzed: 07-May-15

Manganese	ND	0.005	mg/kg dry							
Barium	ND	0.010	mg/kg dry							
Zinc	ND	0.050	mg/kg dry							
Iron	0.059	0.050	mg/kg dry							BI

LCS (B505053-BS1)

Prepared & Analyzed: 07-May-15

Zinc	1.76	0.050	mg/kg dry	2.00		87.8	85-115			
Barium	1.73	0.010	mg/kg dry	2.00		86.6	85-115			
Iron	3.74	0.050	mg/kg dry	4.00		93.4	85-115			
Manganese	1.79	0.005	mg/kg dry	2.00		89.4	85-115			

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Coley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

Total Metals by ICP - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B505053 - EPA 3050										
LCS Dup (B505053-BSD1)					Prepared & Analyzed: 07-May-15					
Barium	1.74	0.010	mg/kg dry	2.00		87.2	85-115	0.665	20	
Zinc	1.76	0.050	mg/kg dry	2.00		87.9	85-115	0.0850	20	
Manganese	1.79	0.005	mg/kg dry	2.00		89.4	85-115	0.0348	20	
Iron	3.74	0.050	mg/kg dry	1.00		93.4	85-115	0.0104	20	

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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

Total Metals by ICPMS - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B505054 - EPA 3050M

Blank (B505054-BLK1)

Prepared: 07-May-15 Analyzed: 08-May-15

Chromium	ND	0.0010	mg/kg dry
Uranium	ND	0.0001	mg/kg dry
Copper	ND	0.0005	mg/kg dry
Lead	ND	0.0005	mg/kg dry
Selenium	ND	0.0010	mg/kg dry
Cadmium	ND	0.0005	mg/kg dry
Silver	0.000030	0.0001	mg/kg dry
Arsenic	0.0005	0.0005	mg/kg dry

Ja
B1

LCS (B505054-BS1)

Prepared: 07-May-15 Analyzed: 08-May-15

Cadmium	0.0490	0.0005	mg/kg dry	0.0500	98.0	85-115
Copper	0.0501	0.0005	mg/kg dry	0.0500	100	85-115
Silver	0.0482	0.0001	mg/kg dry	0.0500	96.3	85-115
Selenium	0.256	0.0010	mg/kg dry	0.250	102	85-115
Chromium	0.0490	0.0010	mg/kg dry	0.0500	98.0	85-115
Uranium	0.0467	0.0001	mg/kg dry	0.0500	93.5	85-115
Arsenic	0.0541	0.0005	mg/kg dry	0.0500	108	85-115
Lead	0.0493	0.0005	mg/kg dry	0.0500	98.7	85-115

LCS Dup (B505054-BSD1)

Prepared: 07-May-15 Analyzed: 08-May-15

Cadmium	0.0490	0.0005	mg/kg dry	0.0500	98.0	85-115	0.0381	20
Arsenic	0.0531	0.0005	mg/kg dry	0.0500	106	85-115	1.95	20
Copper	0.0498	0.0005	mg/kg dry	0.0500	99.7	85-115	0.417	20
Lead	0.0481	0.0005	mg/kg dry	0.0500	96.1	85-115	2.61	20
Chromium	0.0484	0.0010	mg/kg dry	0.0500	96.9	85-115	1.18	20
Silver	0.0474	0.0001	mg/kg dry	0.0500	94.8	85-115	1.61	20
Uranium	0.0456	0.0001	mg/kg dry	0.0500	91.3	85-115	2.35	20
Selenium	0.253	0.0010	mg/kg dry	0.250	101	85-115	1.09	20

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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

Total Metals by ICPMS - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B505055 - EPA 3050M

Blank (B505055-BLK1)

Prepared: 07-May-15 Analyzed: 08-May-15

Lead	ND	0.0005	mg/kg dry
Copper	ND	0.0005	mg/kg dry
Silver	ND	0.0001	mg/kg dry
Arsenic	ND	0.0005	mg/kg dry
Uranium	ND	0.0001	mg/kg dry
Selenium	ND	0.0010	mg/kg dry
Chromium	ND	0.0010	mg/kg dry
Cadmium	ND	0.0005	mg/kg dry

LCS (B505055-B51)

Prepared: 07-May-15 Analyzed: 08-May-15

Selenium	0.245	0.0010	mg/kg dry	0.250	93.1	85-115
Cadmium	0.0479	0.0005	mg/kg dry	0.0500	95.9	85-115
Uranium	0.0474	0.0001	mg/kg dry	0.0500	94.9	85-115
Silver	0.0467	0.0001	mg/kg dry	0.0500	93.4	85-115
Arsenic	0.0529	0.0005	mg/kg dry	0.0500	106	85-115
Chromium	0.0483	0.0010	mg/kg dry	0.0500	97.5	85-115
Copper	0.0486	0.0005	mg/kg dry	0.0500	97.2	85-115
Lead	0.0463	0.0005	mg/kg dry	0.0500	92.6	85-115

ICS Dup (BS05055-BSDI)

Prepared: 07-May-15 Analyzed: 08-May-15

Uranium	0.0459	0.0001	mg/kg dry	0.0500	91.8	85-115	3.29	20
Chromium	0.0184	0.0010	mg/kg dry	0.0500	96.7	85-115	0.827	20
Cadmium	0.0479	0.0005	mg/kg dry	0.0500	95.9	85-115	0.00909	20
Copper	0.0484	0.0005	mg/kg dry	0.0500	96.9	85-115	0.371	20
Silver	0.0464	0.0001	mg/kg dry	0.0500	92.9	85-115	0.627	20
Selenium	0.212	0.0010	mg/kg dry	0.250	96.7	85-115	1.44	20
Arsenic	0.0499	0.0005	mg/kg dry	0.0500	99.8	85-115	5.89	20
Lead	0.0465	0.0005	mg/kg dry	0.0500	92.9	85-115	0.193	20

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Analytical Results For:

Basin Environmental Service
P.O. Box 301
Lovington NM, 88260

Project: J & L LANDFARM
Project Number: NOT GIVEN
Project Manager: JACOB KAMPLAIN
Fax To: (575) 396-1429

Reported:
27-May-15 16:13

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 B505056 - EPA 7471										
Blank (B505056-BLK1)										
					Prepared: 07-May-15 Analyzed: 08-May-15					
Mercury	ND	0.0002	mg/kg wet							
LCS (B505056-BS1)										
					Prepared: 07-May-15 Analyzed: 08-May-15					
Mercury	0.0020	0.0002	mg/kg wet	0.00200		101	85-115			
LCS Dup (B505056-BSD1)										
					Prepared: 07-May-15 Analyzed: 08-May-15					
Mercury	0.0021	0.0002	mg/kg wet	0.00200		104	85-115	3.16	20	
Batch B505057 - EPA 7471										
Blank (B505057-BLK1)										
					Prepared: 07-May-15 Analyzed: 08-May-15					
Mercury	ND	0.0002	mg/kg wet							
LCS (B505057-BS1)										
					Prepared: 07-May-15 Analyzed: 08-May-15					
Mercury	0.0019	0.0002	mg/kg wet	0.00200		93.1	85-115			
LCS Dup (B505057-BSD1)										
					Prepared: 07-May-15 Analyzed: 08-May-15					
Mercury	0.0019	0.0002	mg/kg wet	0.00200		96.1	85-115	3.12	20	

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Notes and Definitions

SUB-AL	Analysis subcontracted to Anatek Labs, Inc.
BS2	Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
H1	Sample was received several days after collected and subsequently analyzed past hold time.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
Ja	Estimated concentration. Analyte concentration between MDL and RL.
MS	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.
S-BN	Base/Neutral surrogate recovery outside of control limits. The data was accepted based on valid recovery of remaining two base/neutral surrogates.
Z-01d	1.0 ± 0.2
SUB-RS	Analysis subcontracted to Radiation Safety Engineering, Inc.
SUB-SS	Analysis subcontracted to SimStar Laboratories, Inc.
Z-01	0.5 ± 0.2
Z-01a	0.6 ± 0.2
Z-01b	0.7 ± 0.2
Z-01c	0.8 ± 0.2
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
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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Coley D. Keene, Lab Director/Quality Manager



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(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS RECORD

#54



ARDINAL LABORATORIES

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(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325) 673-7020

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: J&L Landfarm		P.O. #:		ANALYSIS REQUEST											
Project Manager: Jacob Kampman		Company: Basin Env.													
Address:		Attn:		Chlorides		TPH 8015 M		BTEX		Texas TPH		Complete Cations/Anions		TDS	
City:		State:		Zip:											
Phone #:		Fax #:		Address:											
Project #:		Project Owner:		City:											
Project Name: J&L Landfarm		State:		Zip:											
Project Location: Background Area 2		Phone #:		Fax #:											
Sample Name: Kyle Schmidt															
For Lab Use Only															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP		# CONTAINERS		MATRIX		PRESERV		SAMPLING					
#50114						GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER		ACID/BASE ICE / COOL OTHER		DATE		TIME			
11	5.1 1 0 2.5	5		1		✓		✓		4/25/15		12:30			
12	5.2 3 0 2.5	5		1		✓		✓		4/25/15		12:40			
13	5.3 3 0 2.5	5		1		✓		✓		4/25/15		1:00			
14	5.4 4 0 2.5	5		1		✓		✓		4/25/15		1:10			
15	5.5 5 0 2.5	5		1		✓		✓		4/25/15		1:40			
16	5.6 6 0 2.5	5		1		✓		✓		4/25/15		1:50			
17	5.7 7 0 2.5	5		1		✓		✓		4/25/15		2:00			
18	5.8 8 0 2.5	5		1		✓		✓		4/25/15		2:10			
19	5.9 9 0 2.5	5		1		✓		✓		4/25/15		2:30			
20	6.0 10 0 2.5	5		1		✓		✓		4/25/15		2:40			
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Relinquished By:		Date: 4/27/15		Received By:		Date: 4/27/15		Time: 2:10		Time: 2:10		Time: 2:10		Time: 2:10	
Relinquished By: Kyle Schmidt				Received By: [Signature]											
Delivered By: (Circle One)		Time: 9:00		Received By: [Signature]		Date: 4/27/15		Time: 2:10		Time: 2:10		Time: 2:10		Time: 2:10	
Sampler - UPS - Bus - Other:		Sample Condition:		CHECK BY:		Allyson		Allyson		Allyson		Allyson		Allyson	
		☐ Cool ☐ Intact ☐ Pres ☐ Pres		☐ Cool ☐ Intact ☐ Pres ☐ Pres		☐ Cool ☐ Intact ☐ Pres ☐ Pres		☐ Cool ☐ Intact ☐ Pres ☐ Pres		☐ Cool ☐ Intact ☐ Pres ☐ Pres		☐ Cool ☐ Intact ☐ Pres ☐ Pres		☐ Cool ☐ Intact ☐ Pres ☐ Pres	
		☐ No ☐ No ☐ No		☐ No ☐ No ☐ No		☐ No ☐ No ☐ No		☐ No ☐ No ☐ No		☐ No ☐ No ☐ No		☐ No ☐ No ☐ No		☐ No ☐ No ☐ No	
		Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476													
		#54													



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: J&L Landfarm		P.O. #:		ANALYSIS REQUEST											
Project Manager: Jacob Kamplain		Company: Basin Env.													
Address:		Attn:		BILL TO		ANALYSIS REQUEST									
City:		Address:													
Phone #:		State:		City:		ANALYSIS REQUEST									
Fax #:		State:		City:											
Project #:		Project Owner:		State:		ANALYSIS REQUEST									
Project Name: J&L Landfarm		State:		City:											
Project Location: Background Area 3		State:		City:		ANALYSIS REQUEST									
Sampler Name: Kyle Schmitt		State:		City:											
For Lab Use Only		Fax #:		State:		ANALYSIS REQUEST									
Lab I.D.		Sample I.D.		DATE										TIME	
HSC114		5.8 1 0.25		4-23-01		9:00		ANALYSIS REQUEST							
5.8 2 0.25		5.8 3 0.25		4-23-01		9:30									
5.8 4 0.25		5.8 5 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 6 0.25		5.8 7 0.25		4-23-01		10:11									
5.8 8 0.25		5.8 9 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 10 0.25		5.8 11 0.25		4-23-01		10:11									
5.8 12 0.25		5.8 13 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 14 0.25		5.8 15 0.25		4-23-01		10:11									
5.8 16 0.25		5.8 17 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 18 0.25		5.8 19 0.25		4-23-01		10:11									
5.8 20 0.25		5.8 21 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 22 0.25		5.8 23 0.25		4-23-01		10:11									
5.8 24 0.25		5.8 25 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 26 0.25		5.8 27 0.25		4-23-01		10:11									
5.8 28 0.25		5.8 29 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 30 0.25		5.8 31 0.25		4-23-01		10:11									
5.8 32 0.25		5.8 33 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 34 0.25		5.8 35 0.25		4-23-01		10:11									
5.8 36 0.25		5.8 37 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 38 0.25		5.8 39 0.25		4-23-01		10:11									
5.8 40 0.25		5.8 41 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 42 0.25		5.8 43 0.25		4-23-01		10:11									
5.8 44 0.25		5.8 45 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 46 0.25		5.8 47 0.25		4-23-01		10:11									
5.8 48 0.25		5.8 49 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 50 0.25		5.8 51 0.25		4-23-01		10:11									
5.8 52 0.25		5.8 53 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 54 0.25		5.8 55 0.25		4-23-01		10:11									
5.8 56 0.25		5.8 57 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 58 0.25		5.8 59 0.25		4-23-01		10:11									
5.8 60 0.25		5.8 61 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 62 0.25		5.8 63 0.25		4-23-01		10:11									
5.8 64 0.25		5.8 65 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 66 0.25		5.8 67 0.25		4-23-01		10:11									
5.8 68 0.25		5.8 69 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 70 0.25		5.8 71 0.25		4-23-01		10:11									
5.8 72 0.25		5.8 73 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 74 0.25		5.8 75 0.25		4-23-01		10:11									
5.8 76 0.25		5.8 77 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 78 0.25		5.8 79 0.25		4-23-01		10:11									
5.8 80 0.25		5.8 81 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 82 0.25		5.8 83 0.25		4-23-01		10:11									
5.8 84 0.25		5.8 85 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 86 0.25		5.8 87 0.25		4-23-01		10:11									
5.8 88 0.25		5.8 89 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 90 0.25		5.8 91 0.25		4-23-01		10:11									
5.8 92 0.25		5.8 93 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 94 0.25		5.8 95 0.25		4-23-01		10:11									
5.8 96 0.25		5.8 97 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 98 0.25		5.8 99 0.25		4-23-01		10:11									
5.8 100 0.25		5.8 101 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 102 0.25		5.8 103 0.25		4-23-01		10:11									
5.8 104 0.25		5.8 105 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 106 0.25		5.8 107 0.25		4-23-01		10:11									
5.8 108 0.25		5.8 109 0.25		4-23-01		10:11		ANALYSIS REQUEST							
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5.8 116 0.25		5.8 117 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 118 0.25		5.8 119 0.25		4-23-01		10:11									
5.8 120 0.25		5.8 121 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 122 0.25		5.8 123 0.25		4-23-01		10:11									
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5.8 132 0.25		5.8 133 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 134 0.25		5.8 135 0.25		4-23-01		10:11									
5.8 136 0.25		5.8 137 0.25		4-23-01		10:11		ANALYSIS REQUEST							
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5.8 148 0.25		5.8 149 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 150 0.25		5.8 151 0.25		4-23-01		10:11									
5.8 152 0.25		5.8 153 0.25		4-23-01		10:11		ANALYSIS REQUEST							
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5.8 156 0.25		5.8 157 0.25		4-23-01		10:11		ANALYSIS REQUEST							
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5.8 164 0.25		5.8 165 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 166 0.25		5.8 167 0.25		4-23-01		10:11									
5.8 168 0.25		5.8 169 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 170 0.25		5.8 171 0.25		4-23-01		10:11									
5.8 172 0.25		5.8 173 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 174 0.25		5.8 175 0.25		4-23-01		10:11									
5.8 176 0.25		5.8 177 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 178 0.25		5.8 179 0.25		4-23-01		10:11									
5.8 180 0.25		5.8 181 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 182 0.25		5.8 183 0.25		4-23-01		10:11									
5.8 184 0.25		5.8 185 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 186 0.25		5.8 187 0.25		4-23-01		10:11									
5.8 188 0.25		5.8 189 0.25		4-23-01		10:11		ANALYSIS REQUEST							
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5.8 194 0.25		5.8 195 0.25		4-23-01		10:11									
5.8 196 0.25		5.8 197 0.25		4-23-01		10:11		ANALYSIS REQUEST							
5.8 198 0.25		5.8 199 0.25		4-23-01		10:11									
5.8 200 0.25		5.8 201 0.25		4-23-01		10:11		ANALYSIS REQUEST							
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5.8 210 0.25		5.8 211 0.25		4-23-01		10:11									
5.8 212 0.25		5.8 213 0.25		4-23-01		10									

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1625 N. French Dr., Hobbs, NM 88240
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District IV
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Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 391291

CONDITIONS

Operator: J&L LANDFARM INC PO Box 356 Hobbs, NM 88241	OGRID:
	195303
	Action Number:
	391291
Action Type:	
[C-137] Non-Fee SWMF Submittal (SWMF NON-FEE SUBMITTAL)	

CONDITIONS

Created By	Condition	Condition Date
joseph.kennedy	None	10/9/2024