ANALYTICAL SUMMARY REPORT

August 02, 2018

Adamas Construction 16550 Cottontail Trail Shepherd, MT 59079-3008

Work Order:

B18072386

Project Name:

Lame Deer Lagoon Sludge Remove

Energy Laboratories Inc Billings MT received the following 2 samples for Adamas Construction on 7/26/2018 for analysis.

Lab ID	Client Sample ID	Collect Date R	eceive Date	Matrix	Test
B18072386-001	Soil Sample	07/26/18 11:32	07/26/18	Soil	Moisture Nitrate as N, KCL Extract pH, Saturated Paste Phosphorus-Olsen Saturated Paste Extraction ASA
B18072386-002	Sludge Sample	07/26/18 14:45	07/26/18	Sludge	Metals by ICP/ICPMS, Total or Soluble Bacteria, Fecal Coliform - MPN Mercury in Solid By CVAA Moisture Ammonia as N, KCL Extract Nitrate as N, KCL Extract Total Kjeldahl Nitrogen Percent Moisture Total Metals Digestion by SW3050 Mercury Digestion by SW7471B Solids Content

The analyses presented in this report were performed by Energy Laboratories, Inc., 1120 S 27th St., Billings, MT 59101, unless otherwise noted. Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:

Digitally signed by

Jillian B. Miller

Date: 2018.08.02 17:14:23 -06:00

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client:

Adamas Construction

Project:

Lame Deer Lagoon Sludge Remove

Lab ID:

B18072386-001

Client Sample ID: Soil Sample

Report Date: 08/02/18

Collection Date: 07/26/18 11:32

DateReceived: 07/26/18

Matrix: Soil

					MCL/		
Analyses	Result	Units	Qualifiers	RL	QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS							
Moisture (As Received)	10.4	wt%		0.2		D2974	07/30/18 07:41 / srm
SATURATED PASTE EXTRACT							
pH, sat. paste	7.3	s.u.		0.1		ASA10-3	07/31/18 08:17 / srm
CHEMICAL CHARACTERISTICS							
Phosphorus, Olsen	8	mg/kg		1		ASA24-5	08/01/18 08:36 / srm
Nitrate as N, KCL Extract	6	mg/kg		1		ASA33-8	08/01/18 09:52 / srm

LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client:

Adamas Construction

Project:

Lame Deer Lagoon Sludge Remove

Lab ID:

B18072386-002

Client Sample ID: Sludge Sample

Report Date: 08/02/18

Collection Date: 07/26/18 14:45

DateReceived: 07/26/18

Matrix: Sludge

					MCL/	
Analyses	Result	Units	Qualifiers	RL	QCL Method	Analysis Date / By
MICROBIOLOGICAL						
Bacteria, Fecal Coliform, as Received	1100	mpn/g		2	A9221 E	07/26/18 16:54 / jh
Bacteria, Fecal Coliform, Dry Basis		mpn/g		2	A9221 E	07/26/18 16:54 / jh
PHYSICAL CHARACTERISTICS						
Noisture	96.0	wt%		0.20	A2540 G	07/31/18 11:24 / ptz
Solids, Total	3.96	wt%		0.01	A2540 G	07/31/18 11:24 / ptz
CHEMICAL CHARACTERISTICS						
Ammonia as N, KCL Extract	1950	mg/kg-dry		200	ASA33-7	08/01/18 09:56 / srm
litrate as N, KCL Extract	ND	mg/kg-dry		30	ASA33-8	08/01/18 09:58 / srm
otal Kjeldahl Nitrogen	19800	mg/kg-dry		300	ASA31-3	08/01/18 14:04 / srm
METALS, TOTAL - EPA SW846						
Arsenic	ND	mg/kg-dry		6	SW6020	07/30/18 22:31 / car
Cadmium	1.4	mg/kg-dry		0.5	SW6020	07/30/18 22:31 / car
Chromium	25	mg/kg-dry		20	SW6020	07/30/18 22:31 / car
Copper	334	mg/kg-dry		3	SW6020	07/30/18 22:31 / car
ead	29	mg/kg-dry		4	SW6020	07/30/18 22:31 / car
Mercury	7.2	mg/kg-dry		0.2	SW7471B	08/02/18 15:37 / jag
Nolybdenum	16.1	mg/kg-dry		0.5	SW6020	07/30/18 22:31 / car
lickel	18	mg/kg-dry		3	SW6020	07/30/18 22:31 / car
Selenium	13	mg/kg-dry		10	SW6020	07/30/18 22:31 / car
Zinc	592	mg/kg-dry		6	SW6020	07/30/18 22:31 / car

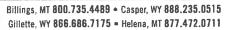
Report Definitions:

RL - Analyte reporting limit.

QCL - Quality control limit.

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.





Prepared by Billings, MT Branch

Client: Adamas Construction

Report Date: 08/02/18

Project: Lame Deer Lagoon Sludge Remove

Analyte		Count Result	Units	RL	%REC Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	A2540 G							Batch:	R304812
Lab ID:	B18071962-001A DUF	Sample Duplica	ate		Run: BAL H	ZW1_180731C		07/31/	18 11:24
Moisture		2.62	wt%	0.20					
Lab ID:	B18071962-001A DUF	Sample Duplica	ate		Run: BAL H	ZW1_180731C		07/31/	18 11:24
Solids, Tot	tal	97.4	wt%	0.01			0.2	10	
Lab ID:	B18072636-001A DUF	Sample Duplica	ate		Run: BAL H	ZW1_180731C		07/31/	18 11:24
Solids, Tot	tal	86.2	wt%	0.01			0.1	10	
Lab ID:	MBLK_MOISTHZW18	Method Blank			Run: BAL F	ZW1_180731C		07/31/	/18 11:24
Solids, Tot	tal	0.02	wt%	0.01					

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Adamas Construction

Project: Lame Deer Lagoon Sludge Remove

Report Date: 08/02/18 **Work Order:** B18072386

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD RPDLimit	Qual
Method:	SW6020							Analytica	I Run: ICPMS207-B	_1807301
.ab ID:	ICSA	9 Inte	erference Cl	heck Sample A	٨				07/30)/18 17:5
Arsenic		-	0.000109	mg/L	0.0010					
Cadmium		0	.0000586	mg/L	0.0010					
Chromium			0.00102	mg/L	0.0010					
Copper			0.000137	mg/L	0.0010					
Lead		0	.0000250	mg/L	0.0010					
Molybdenu	ım		0.778	mg/L	0.0010	97	80	120		
Nickel		0	.0000331	mg/L	0.0010					
Selenium			0.000294	mg/L	0.0010					
Zinc			0.000294	mg/L	0.0027					
ab ID:	ICSAB	9 Inte	erference C	heck Sample /	\ Β				07/30)/18 17:5
Arsenic			0.00990	mg/L	0.0010	99	70	130		
Cadmium			0.00979	mg/L	0.0010	98	70	130		
Chromium			0.0203	mg/L	0.0010	102	70	130		
Copper			0.0193	mg/L	0.0010	96	70	130		
Lead			0.000224	mg/L	0.0010					
Molybdent	ım		0.803	mg/L	0.0010	100	70	130		
Nickel			0.0200	mg/L	0.0010	100	70	130		
Selenium			0.0101	mg/L	0.0010	101	70	130		
Zinc			0.0105	mg/L	0.0027	105	70	130		
ab ID:	QCS	9 Init	ial Calibration	on Verification	Standard				07/30)/18 17:1
Arsenic			0.0510	mg/L	0.0010	102	90	110		
Cadmium			0.0253	mg/L	0.0010	101	90	110		
Chromium			0.0500	mg/L	0.0010	100	90	110		
Соррег			0.0513	mg/L	0.0010	103	90	110		
Lead			0.0502	mg/L	0.0010	100	90	110		
Molybdenu	ım		0.0494	mg/L	0.0010	99	90	110		
Nickel			0.0509	mg/L	0.0010	102	90	110		
Selenium			0.0494	mg/L	0.0010	99	90	110		
Zinc			0.0512	mg/L	0.0027	102	90	110		
Method:	SW6020								Bato	h: 1238
ab ID:	MB-123858	9 Me	thod Blank				Run: ICPM	S207-B_180730I	B 07/30)/18 21:3
Arsenic			ND	mg/kg	0.3					
Cadmium			- ND	mg/kg	0.01					
Chromium			ND	mg/kg	0.10					
Copper			ND	mg/kg	0.2					
Lead			ND	mg/kg	0.2					
Molybdent	ım		0.05	mg/kg	0.02					
Nickel			ND	mg/kg	0.2					
Selenium			ND	mg/kg	0.5					
Zinc			0.3	mg/kg	0.3					

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.



Prepared by Billings, MT Branch

Client: Adamas Construction

Report Date: 08/02/18

Project: Lame Deer Lagoon Sludge Remove

Work Order: B18072386

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	SW6020								1	Batc	h: 123858
Lab ID:	B18071109-023ADIL	9 Seria	l Dilution				Run: ICPM	S207-B_180730B		07/30	/18 22:39
Arsenic			20.0	mg/kg-dry	4.2					10	N
Cadmium			1.93	mg/kg-dry	1.0				3.1	10	
Chromium	55		4290	mg/kg-dry	1.3				13	10	R
Copper			89.5	mg/kg-dry	2.4				9.2	10	
Lead			1130	mg/kg-dry	2.9				0.5	10	
Molybdenu	m		10.9	mg/kg-dry	1.0				2.5	10	
Nickel			30.9	mg/kg-dry	2.1				7.4	10	
Selenium			29.4	mg/kg-dry	6.7					10	N
Zinc			199	mg/kg-dry	4.1				12	10	R
Lab ID:	B18071109-023APDS	S1 9 Post	Digestio	n/Distillation Spike			Run: ICPM	S207-B_180730B		07/30	/18 22:43
Arsenic			24.1	mg/kg-dry	1.0	82	75	125			
Cadmium			8.16	mg/kg-dry	1.0	93	75	125			
Chromium			3880	mg/kg-dry	1.0		75	125			Α
Copper			82.9	mg/kg-dry	1.0		75	125			Α
Lead			1120	mg/kg-dry	1.0		75	125			Α
Molybdenu	m		17.7	mg/kg-dry	1.0	96	75	125			
Nickel			33.4	mg/kg-dry	1.0		75	125			Α
Selenium			32.1	mg/kg-dry	1.4		75	125			Α
Zinc			172	mg/kg-dry	1.0		75	125			Α
Lab ID:	B18071109-023AMS	3 9 Sam	ple Matri:	x Spike			Run: ICPM	S207-B_180730B	3	07/30	/18 22:47
Arsenic			141	mg/kg-dry	4.0	97	75	125			
Cadmium			59.2	mg/kg-dry	1.0	92	75	125			
Chromium			4190	mg/kg-dry	1.2		75	125			Α
Copper			203	mg/kg-dry	2.3	97	75	125			
Lead			1220	mg/kg-dry	2.8		75	125			Α
Molybdenu	ım		123	mg/kg-dry	1.0	89	75	125			
Nickel			150	mg/kg-dry	2.0	97	75	125			
Selenium			147	mg/kg-dry	6.4	96	75	125			
Zinc			295	mg/kg-dry	3.9	94	75	125			
Lab ID:	B18071109-023AMS	D 9 Sam	ple Matri	x Spike Duplicate				S207-B_180730E		07/30	/18 22:51
Arsenic			149		4.0	104		125	5.7	20	
Cadmium			63.7	mg/kg-dry	1.0	99		125	7.3	20	
Chromium			4390	mg/kg-dry	1.2		75	125	4.6	20	Α
Copper			216	mg/kg-dry	2.3	107	75	125	6.0	20	
Lead			1280	mg/kg-dry	2.8		75	125	4.7	20	Α
Molybdenu	ım		132	mg/kg-dry	1.0	96		125	6.9	20	
Nickel			157	mg/kg-dry	2.0	102	75	125	4.2	20	
Selenium			154	mg/kg-dry	6.4	101	75	125	4.5	20	
Zinc			312	mg/kg-dry	3.9	108	75	125	5.6	20	
Lab ID:	SRM3-123858	9 Stan	dard Ref	erence Material			Run: ICPM	IS207-B_180730E	3	07/30)/18 22:55
Arsenic			184	mg/kg	1.6	94	71	120			

Qualifiers:

 $\ensuremath{\mathsf{RL}}$ - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

 $[\]mbox{N}$ - The analyte concentration was not sufficiently high to calculate a RPD for the serial dilution test.

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Adamas Construction

Report Date: 08/02/18

Project: Lame Deer Lagoon Sludge Remove

1					_						
Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	SW6020									Batc	h: 123858
Lab ID:	SRM3-123858	9 Sta	andard Refe	rence Material			Run: ICPM	S207-B_180730B		07/30/	/18 22:55
Cadmium			104	mg/kg	1.0	105	73.2	120			
Chromium			115	mg/kg	1.0	98	73	120			
Copper			139	mg/kg	1.0	101	76	120			
Lead			109	mg/kg	1.1	103	74	120			
Molybdenu	m		119	mg/kg	1.0	94	66	120			
Nickel			88.7	mg/kg	1.0	103	72	120			
Selenium			207	mg/kg	2.5	101	71	120			
Zinc			264	mg/kg	1.5	114	65	120			





Prepared by Billings, MT Branch

Client: Adamas Construction

Report Date: 08/02/18

Project: Lame Deer Lagoon Sludge Remove

Analyte		Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	SW7471B							Analytica	al Run:	HGCV202-B	180802A
Lab ID:	ICV	Init	ial Calibrat	ion Verification Sta	an d ard					08/02/	18 14:42
Mercury			0.00200	mg/kg	1.0	100	90	110			
Method:	SW7471B		" ",	 .						Batcl	n: 123944
Lab ID:	MB-123944	Me	thod Blank				Run: HGC\	/202-B_180802A		08/02/	18 14:47
Mercury			ND	mg/kg	0.005						
Lab ID:	LCS3-123944	Lat	oratory Co	ontrol Sample			Run: HGC\	/202-B_180802A		08/02	18 14:49
Mercury			0.219	mg/kg	1.0	110	80	120			
Lab ID:	B18072618-001ADIL	Se	rial Dilutior	n			Run: HGC\	/202-B_180802A		08/02	18 14:59
Mercury			0.0759	mg/kg-dry	1.0					10	
Lab ID:	B18072618-001AMS	3 Sa	mple Matri	x Spike			Run: HGC\	/202-B_180802A		08/02	18 15:01
Mercury			0.297	mg/kg-dry	1.0	106	80	120			
Lab ID:	B18072618-001AMS	D Sa	mple Matri	x Spike Duplicate			Run: HGC\	/202-B_180802A		08/02	18 15:03
Mercury			0.300	mg/kg-dry	1.0	106	80	120		20	

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Adamas Construction

Report Date: 08/01/18

Project: Lame Deer Lagoon Sludge Remove

Analyte	Result Units	RL %REC Low Limit High Limit RPD RPD	Limit Qual
Method: ASA10-3			Batch: 123905
Lab ID: LCS-R304729 pH, sat. paste	Laboratory Control Sample 7.00 s.u.	Run: MISC-SOIL_180731A 0.10 93 90 110	07/31/18 08:17
Lab ID: B18072386-001A DUP pH, sat. paste	Sample Duplicate 7.40 s.u.	Run: MISC-SOIL_180731A 0.10 1.4	07/31/18 08:17 10

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Adamas Construction

Project: Lame Deer Lagoon Sludge Remove

Report Date: 08/01/18 **Work Order:** B18072386

Analyte	Result Units	RL %REC Low Limit High Limit RPD RPDLimit Qual
Method: ASA24-5		Batch: OM_8-1-2018_08-28-40AM
Lab ID: LCS Phosphorus, Olsen	Laboratory Control Sample 46 mg/kg	Run: FIA205-B_180801A 08/01/18 08:31 1.0 104 70 130
Lab ID: B18072386-001ADUP Phosphorus, Olsen	Sample Duplicate 7.3 mg/kg	Run: FIA205-B_180801A 08/01/18 08:38 1.0 4.5 30
Lab ID: B18072386-001AMS Phosphorus, Olsen	Sample Matrix Spike 19 mg/kg	Run: FIA205-B_180801A 08/01/18 08:40 1.0 109 70 130

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Adamas Construction

Project: Lame Deer Lagoon Sludge Remove

Report Date: 08/01/18

Analyte	Result Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit Qual
Method: ASA31-3							Batch: R304872
Lab ID: B18072386-002A DUP Total Kjeldahl Nitrogen	Sample Duplicate 21200 mg/kg-dry	250		Run: MISC	-SOIL_180801A	6.9	08/01/18 14:04 3 0
Lab ID: LCS-1808011404 Total Kjeldahl Nitrogen	Laboratory Control Sample 504 mg/kg	10	86	Run: MISC 50	-SOIL_180801A 150		08/01/18 14:04
Lab ID: B18072386-002A MS Total Kjeldahl Nitrogen	Sample Matrix Spike 90500 mg/kg-dry	250	70	Run: MISC 70	-SOIL_180801A 1 3 0		08/01/18 14:07

Prepared by Billings, MT Branch

Client: Adamas Construction

Project: Lame Deer Lagoon Sludge Remove

Report Date: 08/01/18

Analyte	Result Units	RL	%REC Low Limit High Limit RPD RPDLimit Qual
Method: ASA33-7			Batch: OM_8-1-2018_09-47-55AM
Lab ID: LCS Ammonia as N, KCL Extract	Laboratory Control Sample 16.8 mg/kg	1.0	Run: FIA205-B_180801A 08/01/18 09:49 83 70 130
Lab ID: B18072386-002ADUP Ammonia as N, KCL Extract	Sample Duplicate 2000 mg/kg-dry	150	Run: FIA205-B_180801A 08/01/18 09:56 2.3 3 0
Lab ID: B18072386-002AMS Ammonia as N, KCL Extract	Sample Matrix Spike 3500 mg/kg-dry	160	Run: FIA205-B_180801A 08/01/18 09:57 97 70 130

QA/QC Summary Report

Prepared by Billings, MT Branch

Client: Adamas Construction

Report Date: 08/01/18

Project: Lame Deer Lagoon Sludge Remove

Analyte	Result Units	RL %REC Low Limit High Limit RPD RPDLimit Qual
Method: ASA33-8		Batch: OM_8-1-2018_09-47-55AM
Lab ID: LCS Nitrate as N, KCL Extract	Laboratory Control Sample 10.7 mg/kg	Run: FIA205-B_180801A 08/01/18 09:49 1.0 98 70 130
Lab ID: B18072386-002ADUP Nitrate as N, KCL Extract	Sample Duplicate ND mg/kg-dry	Run: FIA205-B_180801A 08/01/18 09:59 25 30
Lab ID: B18072386-002AMS Nitrate as N, KCL Extract	Sample Matrix Spike 289 mg/kg-dry	Run: FIA205-B_180801A 08/01/18 10:00 26 109 70 130

Work Order Receipt Checklist

Adamas Construction

B18072386

Login completed by:	Tabitha Edwards		Date F	Received: 7/26/2018
Reviewed by:	BL2000\raschim		Rec	eived by: snk
Reviewed Date:	7/31/2018		Carri	er name: Hand Del
Shipping container/cooler in	good condition?	Yes ✓	No 🗍	Not Present
Custody seals intact on all si	hipping container(s)/cooler(s)?	Yes 🗌	No 🗌	Not Present ✓
Custody seals intact on all sa	ample bottles?	Yes 🗀	No 🗌	Not Present 🗹
Chain of custody present?		Yes ✓	No 🗌	
Chain of custody signed whe	en relinquished and received?	Yes 🗸	No 🗌	
Chain of custody agrees with	n sample labels?	Yes ✓	No 🗌	
Samples in proper container	/bottle?	Yes √	No 🗌	
Sample containers intact?		Yes ✓	No 🗌	
Sufficient sample volume for	indicated test?	Yes √	No 🗌	
All samples received within h (Exclude analyses that are c such as pH, DO, Res CI, Su	onsidered field parameters	Yes √	No 🗌	
Temp Blank received in all s	hipping container(s)/cooler(s)?	Yes	No 🗹	Not Applicable
Container/Temp Blank temp	erature:	°C On Ice		
Water - VOA vials have zero	headspace?	Yes 🗌	No 🗌	No VOA vials submitted
Water - pH acceptable upon	receipt?	Yes 🗌	No 🗌	Not Applicable

Standard Reporting Procedures:

Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH, Dissolved Oxygen and Residual Chlorine, are qualified as being analyzed outside of recommended holding time.

Solid/soil samples are reported on a wet weight basis (as received) unless specifically indicated. If moisture corrected, data units are typically noted as -dry. For agricultural and mining soil parameters/characteristics, all samples are dried and ground prior to sample analysis.

Contact and Corrective Action Comments:

The temperature of the sample(s) for shipping container 1 was 30.8°C and the Temperature Blank temperature for shipping container 2 was 1.0°C.

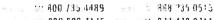




Chain of Custody & Analytical Request Record

www.energylab.com Page of ____ Account Information (Billing information) Report Information (if different than Account Information) **Comments** Company/Name Adamas Construction Adamas Construction Phone 401- (87-3022 Mailing Address Mailing Address City, State, Zip City, State, Zip Alamas, MT. 4/06/06mi Adamas, MT. 4/06 (d'amail. Com Email A Receive Report Hard Copy Fmail Purchase Order Quote Bottle Order Special Report/Formats: □ LEVEL IV □ NELAC □ EDD/EDT (contact laboratory) □ Other **Project Information Matrix Codes Analysis Requested** A - Air Project Name, PWSID, Permit, etc. Lane Deer Lagoon Sk All turnaround times are W- Water standard unless marked as S - Soits/ RUSH. Solids V - Vegetation **Energy Laboratories** Sample Origin State / EPA/State Compliance MUST be contacted prior to 8 - Bioassav See Attached RUSH sample submittal for O - Other MINING CLIENTS, please Indicate sample type. charges and scheduling -DW - Drinking "If ore has been processed or refined, call before sending. See Instructions Page ☐ Byproduct 11 (e)2 material ☐ Unprocessed ore (NOT ground or refined)* Collection Matrix Sample Identification Number of (See Codes (Name, Location, Interval, etc.) Date Time 11:32 10 Relinquished by (privi), Nathan Fierce Custody Received by (print) Date/Time 16:47 7/26 Record MUST be signed Relinquished by (print) Received by Laboratory (print) LABORATORY USE ONLY Shipped By Cooler ID(s) Custody Seals Intact Receipt Temp Temp Blank On Ice Payment Type Amount Receipt Number (cash/check only) YNCB Y N YN Cash Check

ELI-COC-12/16 v.1



866 586 7175 977 472 9711



LABORATORY ANALYTICAL REPORT

Prepared by Billings, MT Branch

Client:

Indian Health Service

Project:

Lame Deer Lagoon

Lab ID:

B17060708-001

Client Sample ID: 1-Pivot

Report Date: 06/16/17

Collection Date: 06/06/17 14:00

DateReceived: 06/07/17

Matrix: Soil

Analyses	Result	Units	Qualiflers	RL	MCL/	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS Moisture (As Received)	12 1	wt%		0.2		D2974	06/12/17 00:00 / srm
,		******		707			
SATURATED PASTE EXTRACT pH, sat. paste	8.2	8.U.		0.1		ASA10-3	06/16/17 13:13 / srm
CHEMICAL CHARACTERISTICS							
Phosphorus, Olsen	2	mg/kg		1		ASA24-5	06/16/17 11:04 / srm
Nilrate as N, KCL Extract	9	mg/kg		t		ASA33-8	06/15/17 13:36 / srm
R17060708-002						Collectio	n Date: 06/06/17 14:20

B17060708-002

Client Sample ID: 2-Field

Collection Date: 06/06/17 14:20

DateReceived: 06/07/17 Matrix: Soil

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS Moisture (As Received)	9.2	wt%		0.2		D2974	06/12/17 00 00 / srm
SATURATED PASTE EXTRACT	0.2	*** 75		0.2		52014	00,72,77,00,00,73,111
H, sat. paste	8.3	s.u.		0.1		ASA10-3	06/16/17 13:13 / srm
CHEMICAL CHARACTERISTICS							
Phosphorus, Olsen	2	mg/kg		1		ASA24-5	06/16/17 11:06 / srm
Nitrate as N, KCL Extract	ND	mg/kg		1		ASA33-8	06/15/17 13:37 / srm

Lab ID:

B17060708-003

Client Sample ID: 3-Field

Collection Date: 06/06/17 14:30 DateReceived: 06/07/17

Matrix: Soil

Analyses	Resuit	Units	Qualifiers	RL.	MCL/	Method	Analysis Date / By
PHYSICAL CHARACTERISTICS Moisture (As Received)	13.6	wt%		0.2		D2974	06/12/17 00 00 / srm
SATURATED PASTE EXTRACT pH, sat. paste	8.4	ş.u.		0.1		ASA10-3	06/16/17 13:1 3 / sm
CHEMICAL CHARACTERISTICS Phosphorus, Olsen Nitrate as N, KCL Extract		mg/kg mg/kg		1 1		ASA24-5 ASA33-8	06/16/17 11:08 / srm 06/15/17 13:37 / srm



RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

MCL - Maximum contaminant level, ND - Not detected at the reporting limit.



: 800 735 4489

- 888 235 B145

LABORATORY ANALYTICAL REPORT Prepared by Billings, MT Branch



Cllent:

Indian Health Service

Section Property on a Trans

Project:

Lame Deer Lagoon

Lab ID: Client Sample ID: 503-1

B17060160-008

Report Date: 06/13/17

Collection Date: 06/01/17 15:00

DateReceived: 06/01/17

Matrix: Sludge

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MICROBIOLOGICAL				2	2100		
Bacteria, Fecal Coliform, as Received	260	mpn/g		2		A9221 E	06/02/17 09:58 / fap
lacteria, Fecal Coliform, Dry Basis	4244	mpn/g		2		A9221 E	06/02/17 09:58 / fap
HYSICAL CHARACTERISTICS							·
foisture	93.9	wt%		0.20		A2540 G	06/02/17 11:35 / dah
olids, Total	6.13	wt%		0.01		A2540 G	06/02/17 11:35 / dah
HEMICAL CHARACTERISTICS							
mmonia as N, KCL Extract	1410	mg/kg-dry		20		ASA33-7	06/07/17 11:57 / srm
ilrate as N, KCL Extract		mg/kg-dry		20		ASA33-8	06/07/17 11:57 / srm
otal Kjeldahl Nitrogen	21000	mg/kg-dry		200		ASA31-3	06/07/17 13:52 / srm
IETALS, TOTAL - EPA SW846							
rsenic	5.0	mg/kg-dry		0.5		SW6020	06/12/17 01:36 / jpv
admium	2.4	mg/kg-dry		0.5		SW6020	06/12/17 01:36 / jpv
hromium	23	mg/kg-dry		1		SW6020	06/12/17 01:36 / jpv
opper	325	mg/kg-dry		2		SW6020	06/12/17 01:36 / ipv
ead	19	mg/kg-dry		2		SW6020	06/12/17 01:36 / jpv
lercury	1.0	mg/kg-dry		0.2		SW7471B	06/09/17 11:21 / jh
lolybdenum	14.5	mg/kg-dry		0.5		SW6020	06/12/17 01:36 / jpv
ickel	18	mg/kg-dry		1		SW6020	06/12/17 01:36 / jpv
elenium	13.2	mg/kg-dry		0.6		SW6020	06/12/17 01:36 / jpv
linc	545	mg/kg-dry		4		SW6020	06/12/17 01:36 / ipv



RL - Analyte reporting limit. QCL - Quality control limit.

MCL - Maximum contaminant level ND - Not detected at the reporting limit.