AP - 119

2012 GWMR

11 / 07 / 2012

TABLE 1

2012 GROUNDWATER ELEVATION DATA

PRO-KEM, INC. LOVINGTON YARD LEA COUNTY, NEW MEXICO NMOCD REF NO: API-119

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO WATER	CORRECTED GROUNDWATER ELEVATION	TOTAL WELL DEPTH	FREE PRODUCT THICKNESS
MW-1	10/24/12	3,895.67	65.43	3,830.24	73.06	0.00
MW-2	10/24/12	3,894.33	64.81	3,829.52	69.87	0.00
MW-3	10/24/12	3,894.13	65.51	3,828.62	70.68	0.00

TABLE 2

2012 CONCENTRATIONS OF BENZENE & BTEX IN GROUNDWATER

PRO-KEM, INC. LOVINGTON YARD LEA COUNTY, NEW MEXICO NMOCD REFERENCE NO: API-119

			METHODS: EPA SW 846-8260b													
SAMPLE LOCATION	SAMPLE DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL- BENZENE (mg/L)	M,P- XYLENES (mg/L)	O-XYLENES (mg/L)	TOTAL XYLENE (mg/L)	TOTAL BTEX (mg/L)	CARBON TERTRACHLORIDE (mg/L)							
MW-1	10/24/2012	<0.001	<0.001	< 0.001	< 0.002	<0.001	< 0.003	< 0.003	1.55							
MW-2	10/24/2012	<0.010	< 0.010	< 0.010	< 0.020	< 0.010	< 0.030	< 0.030	0.034							
MW-3	10/24/2012	< 0.001	<0.001	<0.001	<0.002	<0.001	< 0.003	< 0.003	0.180							
WQCC Standard		0.01	0.75	0.75	TOTAL >	YLENES	0.62		0.002							



October 26, 2012

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: LOVINGTON YARD (AP1-119)

Enclosed are the results of analyses for samples received by the laboratory on 10/25/12 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keeno

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To: (575) 396-1429

Received: 10/25/2012 Reported: 10/26/2012

Project Name: LOVINGTON YARD (AP1-119)

Project Number: NONE GIVEN

Project Location: LEA COUNTY, NM

Sampling Date: 10/24/2012 Sampling Type: Water

Sampling Type: Water
Sampling Condition: Cool & Intact

Sample Received By: Jodi Henson

Sample ID: MW-2 (H202596-01)

Volatile 8260	mg/	L	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Carbon tetrachloride*	1.55	0.010	10/26/2012	ND	0.025	102	0.0250	6.31	
Benzene*	< 0.010	0.010	10/26/2012	ND	0.024	97.8	0.0250	5.51	
Toluene*	< 0.010	0.010	10/26/2012	ND	0.025	101	0.0250	7.84	
Ethylbenzene*	< 0.010	0.010	10/26/2012	ND	0.026	104	0.0250	8.40	
m+p - Xylene*	<0.020	0.020	10/26/2012	ND	0.054	109	0.0500	7.61	
o-Xylene*	< 0.010	0.010	10/26/2012	ND	0.027	107	0.0250	8.60	
Total Xylenes*	<0.030	0.030	10/26/2012	ND	0.081	108	0.0750	7.93	
Surrogate: Dibromofluoromethane	123 %	% 70.2-14	3						
Surrogate: Toluene-d8	106 % 73.8-116		8						
Surrogate: 4-Bromofluorobenzene		% 48-134	1						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 10/25/2012 Reported: 10/26/2012

Project Name: LOVINGTON YARD (AP1-119)

Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 10/24/2012 Sampling Type: Water

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

Sample ID: MW-3 (H202596-02)

Volatile 8260	mg/	'L	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Carbon tetrachloride*	0.034	0.001	10/26/2012	ND	0.025	102	0.0250	6.31	
Benzene*	< 0.001	0.001	10/26/2012	ND	0.024	97.8	0.0250	5.51	
Toluene*	< 0.001	0.001	10/26/2012	ND	0.025	101	0.0250	7.84	
Ethylbenzene*	< 0.001	0.001	10/26/2012	ND	0.026	104	0.0250	8.40	
m+p - Xylene*	<0.002	0.002	10/26/2012	ND	0.054	109	0.0500	7.61	
o-Xylene*	< 0.001	0.001	10/26/2012	ND	0.027	107	0.0250	8.60	
Total Xylenes*	<0.003	0.003	10/26/2012	ND	0.081	108	0.0750	7.93	
Surrogate: Dibromofluoromethane	117 %	% 70.2-14	3						
Surrogate: Toluene-d8	102 % 73.8-116		8						
Surrogate: 4-Bromofluorobenzene 81.4 %		% 48-134	1						

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Fax To: (575) 396-1429

Received: 10/25/2012 Reported: 10/26/2012

Project Name: LOVINGTON YARD (AP1-119)

Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 10/24/2012 Sampling Type: Water

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

Sample ID: MW-1 (H202596-03)

Volatile 8260	mg/	'L	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Carbon tetrachloride*	0.180	0.001	10/25/2012	ND	0.025	102	0.0250	6.31	
Benzene*	< 0.001	0.001	10/25/2012	ND	0.024	97.8	0.0250	5.51	
Toluene*	< 0.001	0.001	10/25/2012	ND	0.025	101	0.0250	7.84	
Ethylbenzene*	< 0.001	0.001	10/25/2012	ND	0.026	104	0.0250	8.40	
m+p - Xylene*	<0.002	0.002	10/25/2012	ND	0.054	109	0.0500	7.61	
o-Xylene*	< 0.001	0.001	10/25/2012	ND	0.027	107	0.0250	8.60	
Total Xylenes*	<0.003	0.003	10/25/2012	ND	0.081	108	0.0750	7.93	
Surrogate: Dibromofluoromethane	124 %	% 70.2-14	3						
Surrogate: Toluene-d8	103 %	103 % 73.8-118							
Surrogate: 4-Bromofluorobenzene 80.1 % 48-134		1							

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

LAB Order ID	# H202596)																					***************************************						Pag	е			of		1
(Cardinal Lab	ora	to	rie	S		H T	101 Eas lobbs, I el (575) ax (575	NM 8) 393-	3 8240 -2326										y = 100 m															
Company Name:	Basin Environmental Service	ce Techi	nologi	es, LL	.C	Phor	ne #:	ecunistii (Austria	AND THE PERSON NAMED IN	MAY SECURE		(57	5)3	96-2	237	В		ANALYSIS REQUEST																	
Address:	P.O. Box Lovington, Ni					Fax #: (575)396-1429												1				1	1				12 (8)	1							
Contact Person:						E-mail: pm@ basinenv.com prokem@windstream.net																								***************************************					
Invoice to:	Basin Environmental Service Tec	chnologie	s, LLC	,																										andar					
Project #:				enne mer de l'écolomistre pa	niek currens	Project Name: Lovington Yard (API-119)												N															from st		
Project Location: (include state)						Sampler Signature:																											different		
LAB ID SAMPLE ID		(C)OMP	VERS		MA	ATRI	T	I	PF		ETH		VE		SAMI	PLING	1B	rachloride															Id Time if		
		(G)RAB or (C)OMP	# CONTAINERS	WATER	SOIL	AIR	SLUDGE	HCL	HNO3	H ₂ SO₄	NaOH	ICE	NONE		DATE	TIME	BTEX 8021B	Carbon Tetrachloride															Turn Around Time if different from standard	Hold	
1	MW-2		G	2	Х				X	_			X			10/24/12	10:00			T	T			1	\top		T	\Box				\top	T		Ť
2	MW-3		G	2	Х				X				Х			10/24/12	10:30	Х	X																
.3	MW-1		G	2	X				Х				Х			10/24/12	11:00	Х	X									П		$oxed{\Box}$		$oldsymbol{\perp}$			
						\dashv	-	_	+	_	\vdash	-			-			\perp	+	+		\vdash	-	\dashv	\dashv	-		\square	-	-		+	\perp	_	_
					\vdash	-	\dashv		╀	+					-	11,0000 118.000 1100		\vdash	\dashv	+	+	\vdash	-	\dashv	+	+	╁	\vdash	+	+	\vdash	+	-		-
					\vdash	\dashv	\dashv	+	t	+	+	\dagger						H		+	-	Н		+	+	+	+		+	+	H	+	+	-	\vdash
		*******					\exists	\top	T		T	†								T	1	Ħ		\dagger	\top				\dagger		\Box	\top	1	T	
																-									and the same of	Maria Maga			Security	NATION SERVICE					
Relinguished by:	<i>?</i> ⊶Λ	ime:	Recei	ved by:	(Line		iomp [//	any: DO	1	Date	∍: J()	67.			OB CO	S	ر 2 0 0 0 0 0			B U	SE Y		REN	VIAR	RKS:	:									
Relinquished by:	Øompany: Date: 1	Time:	Recei	ved by:		С	omp	any:		Date	9:	Ti	ime:		OB CO	s	 ي 	Inta Hea	ct	ce <u>Y</u>	*	NA_	Dry Weight Basis Required TRRP Report Required												
Relinquished by:	Company: Date: 1	ſime:	Recei	ved by:		C	omp	any:	APPLICATION	Date	9:	Ti	ime:		OB CO	s	°c °c										al Reporting Limits Are Needed								
Submittal of sample	es constitutes agreement to Terms and	Condition	IS	alakeri di saman manana m Antara kanana manana manan	MARION COLUMN	depotent states		entoruser.m	APER DE		- (*364).	ادر	4	seg .	J	September 1985		Carrier #																	
												C. P. S. C. C.	1	Samuel .	hand																				