

MALEY WATER WELL



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

March 10, 2011

Allen Hodge
Phoenix Environmental, LLC
P.O. Box 1856
Hobbs, NM 88240

RE: BASIC TRUCK ROLL OVER

Enclosed are the results of analyses for samples received by the laboratory on 02/18/11 16:20.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

 Phoenix Environmental, LLC
 Allen Hodge
 P.O. Box 1856
 Hobbs NM, 88240
 Fax To: (575) 391-9687

Received:	02/18/2011	Sampling Date:	02/18/2011
Reported:	03/10/2011	Sampling Type:	Water
Project Name:	BASIC TRUCK ROLL OVER	Sampling Condition:	** (See Notes)
Project Number:	MALEY WELL	Sample Received By:	Jodi Henson
Project Location:	HWY 285 & NORTH TRUCK ROUTE, NM		

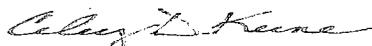
Sample ID: MALEY WATER WELL (H100333-01)

Arsenic, 200.7		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Arsenic	<0.100	0.100	02/23/2011	ND	4.33	108	4.00	0.928	GAL	
Barium, 200.7		mg/L		Analyzed By: CK						
Barium	<0.010	0.010	02/23/2011	ND	2.12	106	2.00	1.43	GAL	
Bicarbonate 310.1M		mg/L		Analyzed By: HM						
Alkalinity, Bicarbonate	259	5.00	02/23/2011	ND	952	95.2	1000	7.31		
Cadmium, 200.7		mg/L		Analyzed By: CK						
Cadmium	<0.010	0.010	02/23/2011	ND	2.08	104	2.00	0.966	GAL	
Calcium, 200.7		mg/L		Analyzed By: CK						
Calcium	174	0.500	02/23/2011	ND	5.36	107	5.00	3.30	GAL	
Carbonate 310.1M		mg/L		Analyzed By: HM						
Alkalinity, Carbonate	<0.00	0.00	02/23/2011	ND	ND		0.00			
Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Chloride	216	4.00	02/23/2011	ND	108	108	100	0.00		
Chromium, 200.7		mg/L		Analyzed By: CK						

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* = Accredited Analyte

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Celestine D. Keene, Lab Director/Quality Manager

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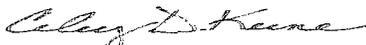
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Chromium, 200.7		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chromium	<0.010	0.010	02/23/2011	ND	1.09	109	1.00	0.922	GAL	
Conductivity 120.1		uS/cm		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Conductivity	1860	1.00	02/22/2011	ND	1410	100	1410	0.539		
Copper, 200.7		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Copper	<0.020	0.020	02/23/2011	ND	4.43	111	4.00	1.59	GAL	
Cyanide 335.4		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Cyanide (total)	<0.005	0.005	03/02/2011	ND	0.053	106	0.0500		GAL	
Iron 200.7		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Iron	<0.050	0.050	02/23/2011	ND	4.13	103	4.00	1.22	GAL	
Lead, 200.7		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Lead	<0.050	0.050	02/23/2011	ND	4.45	111	4.00	1.13	GAL	
Magnesium, 200.7		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Magnesium	62.5	0.500	02/23/2011	ND	4.29	107	4.00	0.465	GAL	
Manganese 200.7		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	

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Project Location:	HWY 285 & NORTH TRUCK ROUTE, NM		

Sample ID: MALEY WATER WELL (H100333-01)

Manganese 200.7		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Manganese	<0.005	0.005	02/23/2011	ND	2.17	108	2.00	1.39	GAL	
Mercury, 245.1		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Mercury	<0.0002	0.0002	03/01/2011	ND	0.0020	100	0.00200	0.00	GAL	
PAH 8270C		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Naphthalene	<0.001	0.001	03/02/2011	ND	0.010	103	0.0100	1.35		
2-Methylnaphthalene	<0.001	0.001	03/02/2011	ND	0.010	104	0.0100	4.52		
1-Methylnaphthalene	<0.001	0.001	03/02/2011	ND						
Acenaphthylene	<0.001	0.001	03/02/2011	ND	0.010	96.5	0.0100	11.3		
Acenaphthene	<0.001	0.001	03/02/2011	ND	0.010	100	0.0100	3.34		
Fluorene	<0.001	0.001	03/02/2011	ND	0.010	96.2	0.0100	1.78		
Phenanthrene	<0.001	0.001	03/02/2011	ND	0.010	102	0.0100	1.79		
Anthracene	<0.001	0.001	03/02/2011	ND	0.010	104	0.0100	5.01		
Carbazole	<0.001	0.001	03/02/2011	ND	0.011	109	0.0100	17.3		
Fluoranthene	<0.001	0.001	03/02/2011	ND	0.011	106	0.0100	14.6		
Pyrene	<0.001	0.001	03/02/2011	ND	0.011	106	0.0100	12.6		
Benzo[a]anthracene	<0.001	0.001	03/02/2011	ND	0.014	136	0.0100	19.4		
Chrysene	<0.001	0.001	03/02/2011	ND	0.010	104	0.0100	1.74		
Benzo[b]fluoranthene	<0.001	0.001	03/02/2011	ND	0.012	123	0.0100	3.40		
Benzo[k]fluoranthene	<0.001	0.001	03/02/2011	ND	0.015	146	0.0100	6.15		
Benzo[a]pyrene	<0.0002	0.0002	03/02/2011	ND	0.013	131	0.0100	6.45		

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PAH 8270C		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Indeno[1,2,3-cd]pyrene	<0.001	0.001	03/02/2011	ND	0.007	72.9	0.0100	17.3		
Dibenz[a,h]anthracene	<0.001	0.001	03/02/2011	ND	0.007	68.8	0.0100	21.2		
Benzo[g,h,i]perylene	<0.001	0.001	03/02/2011	ND	0.006	64.1	0.0100	21.4		

Surrogate: Nitrobenzene-d5 47.3 % 35-114

Surrogate: 2-Fluorobiphenyl 37.5 % 43-116

Surrogate: Terphenyl-d14 51.0 % 33-141

pH		pH Units		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
pH	7.12	0.100	02/22/2011		7.03	100	7.00	0.420		

Phenols, 420.1		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Phenols	0.010	0.005	03/08/2011	ND	0.053	106	0.0500	50.0	A-01, GAL	

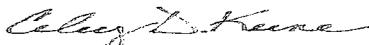
Potassium, 200.7		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Potassium	2.30	0.500	02/23/2011	ND	10.8	108	10.0	1.46	GAL	

Regulated Volatiles EPA 524.2		ug/L		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Dichlorodifluoromethane	<1.00	1.00	02/22/2011	ND	20.0	100	20.0	6.88		
Chloromethane	<1.00	1.00	02/22/2011	ND	19.0	95.2	20.0	4.73		
Vinyl chloride	<1.00	1.00	02/22/2011	ND	20.2	101	20.0	4.76		
Bromomethane	<1.00	1.00	02/22/2011	ND	21.4	107	20.0	4.89		

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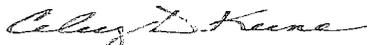
Sample ID: MALEY WATER WELL (H100333-01)

Regulated Volatiles EPA 524.2		ug/L		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloroethane	<1.00	1.00	02/22/2011	ND	21.0	105	20.0	2.72		
Trichlorofluoromethane	<1.00	1.00	02/22/2011	ND	24.1	120	20.0	5.91		
1,1-Dichloroethene	<1.00	1.00	02/22/2011	ND	21.2	106	20.0	4.83		
Methylene chloride	<1.00	1.00	02/22/2011	ND	19.9	99.4	20.0	4.90		
trans-1,2-Dichloroethene	<1.00	1.00	02/22/2011	ND	21.8	109	20.0	20.9		
1,1-Dichloroethane	<1.00	1.00	02/22/2011	ND	20.8	104	20.0	6.70		
Acrylonitrile	<1.00	1.00	02/22/2011	ND	19.9	99.7	20.0	16.2		
Acrolein	<50.0	50.0	02/22/2011	ND	99.6	99.6	100	2.43		
cis-1,2-Dichloroethene	<1.00	1.00	02/22/2011	ND	21.0	105	20.0	6.55		
2,2-Dichloropropane	<1.00	1.00	02/22/2011	ND	20.9	104	20.0	4.81		
Bromochloromethane	<1.00	1.00	02/22/2011	ND	20.7	104	20.0	5.30		
Chloroform	<1.00	1.00	02/22/2011	ND	20.5	102	20.0	6.29		
Carbon tetrachloride	<1.00	1.00	02/22/2011	ND	19.8	98.8	20.0	8.16		
1,1,1-Trichloroethane	<1.00	1.00	02/22/2011	ND	18.2	90.8	20.0	5.55		
1,1-Dichloropropene	<1.00	1.00	02/22/2011	ND	20.9	104	20.0	7.40		
Benzene	<1.00	1.00	02/22/2011	ND	20.2	101	20.0	7.02		
1,2-Dichloroethane	<1.00	1.00	02/22/2011	ND	19.8	99.0	20.0	4.49		
Trichloroethene	<1.00	1.00	02/22/2011	ND	20.5	103	20.0	6.59		
Dibromomethane	<1.00	1.00	02/22/2011	ND	20.9	104	20.0	5.06		
1,2-Dichloropropane	<1.00	1.00	02/22/2011	ND	20.8	104	20.0	6.59		
Bromodichloromethane	<1.00	1.00	02/22/2011	ND	18.8	94.2	20.0	5.28		
cis-1,3-Dichloropropene	<1.00	1.00	02/22/2011	ND	18.6	93.0	20.0	8.11		

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Sample ID: MALEY WATER WELL (H100333-01)

Regulated Volatiles EPA 524.2		ug/L		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Toluene	<1.00	1.00	02/22/2011	ND	20.4	102	20.0	8.27		
Tetrachloroethene	<1.00	1.00	02/22/2011	ND	20.7	104	20.0	8.72		
trans-1,3-Dichloropropene	<1.00	1.00	02/22/2011	ND	18.8	93.8	20.0	8.67		
1,1,2-Trichloroethane	<1.00	1.00	02/22/2011	ND	21.2	106	20.0	3.44		
Dibromochloromethane	<1.00	1.00	02/22/2011	ND	18.7	93.6	20.0	8.12		
1,3-Dichloropropane	<1.00	1.00	02/22/2011	ND	20.4	102	20.0	5.95		
1,2-Dibromoethane	<0.0500	0.0500	02/22/2011	ND	21.8	109	20.0	5.58		
2-Chloroethyl vinyl ether	<5.00	5.00	02/22/2011	ND	ND		20.0			
Chlorobenzene	<1.00	1.00	02/22/2011	ND	20.4	102	20.0	7.61		
Ethylbenzene	<1.00	1.00	02/22/2011	ND	21.2	106	20.0	7.43		
1,1,1,2-Tetrachloroethane	<1.00	1.00	02/22/2011	ND	19.7	98.4	20.0	7.76		
m+p - Xylene	<2.00	2.00	02/22/2011	ND	42.8	107	40.0	7.71		
o-Xylene	<1.00	1.00	02/22/2011	ND	21.5	108	20.0	7.77		
Total Xylenes	<3.00	3.00	02/22/2011	ND	64.4	107	60.0	7.73		
Bromoform	<1.00	1.00	02/22/2011	ND	17.4	87.0	20.0	7.08		
Styrene	<1.00	1.00	02/22/2011	ND	19.5	97.6	20.0	6.78		
Isopropylbenzene	<1.00	1.00	02/22/2011	ND	21.7	109	20.0	8.14		
Bromobenzene	<1.00	1.00	02/22/2011	ND	20.8	104	20.0	7.19		
n-Propylbenzene	<1.00	1.00	02/22/2011	ND	21.7	109	20.0	8.00		
1,1,2,2-Tetrachloroethane	<1.00	1.00	02/22/2011	ND	22.0	110	20.0	7.19		
2-Chlorotoluene	<1.00	1.00	02/22/2011	ND	21.0	105	20.0	6.95		
1,2,3-trichloropropane	<1.00	1.00	02/22/2011	ND	ND		20.0			

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Regulated Volatiles EPA 524.2

ug/L

Analyzed By: CMS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
1,3,5-Trimethylbenzene	<1.00	1.00	02/22/2011	ND	22.2	111	20.0	8.12	
4-Chlorotoluene	<1.00	1.00	02/22/2011	ND	21.1	106	20.0	7.01	
tert-Butylbenzene	<1.00	1.00	02/22/2011	ND	21.6	108	20.0	8.01	
1,2,4-Trimethylbenzene	<1.00	1.00	02/22/2011	ND	22.2	111	20.0	7.78	
sec-Butylbenzene	<1.00	1.00	02/22/2011	ND	21.7	108	20.0	8.21	
p-Isopropyltoluene	<1.00	1.00	02/22/2011	ND	22.4	112	20.0	7.61	
1,3-Dichlorobenzene	<1.00	1.00	02/22/2011	ND	20.6	103	20.0	7.87	
1,4 Dichlorobenzene	<1.00	1.00	02/22/2011	ND	19.8	99.2	20.0	7.36	
n-Butylbenzene	<1.00	1.00	02/22/2011	ND	22.1	111	20.0	7.89	
1,2-Dichlorobenzene	<1.00	1.00	02/22/2011	ND	20.4	102	20.0	7.30	
1,2-Dibromo-3-chloropropane	<1.00	1.00	02/22/2011	ND	18.3	91.6	20.0	7.88	
Hexachlorobutadiene	<1.00	1.00	02/22/2011	ND	21.8	109	20.0	7.27	
1,2,4-Trichlorobenzene	<1.00	1.00	02/22/2011	ND	20.9	104	20.0	7.81	
Naphthalene	<1.00	1.00	02/22/2011	ND	21.5	107	20.0	7.69	
1,2,3-Trichlorobenzene	<1.00	1.00	02/22/2011	ND	20.9	104	20.0	6.48	

Surrogate: Dibromofluoromethane 98.1 % 80-120

Surrogate: Toluene-d8 96.2 % 80-120

Surrogate: 4-Bromofluorobenzene 92.6 % 80-120

Selenium, 200.7

mg/L

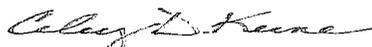
Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Selenium	<0.200	0.200	02/23/2011	ND	4.28	107	4.00	1.18	GAL

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Phoenix Environmental, LLC
 Allen Hodge
 P.O. Box 1856
 Hobbs NM, 88240
 Fax To: (575) 391-9687

Received:	02/18/2011	Sampling Date:	02/18/2011
Reported:	03/10/2011	Sampling Type:	Water
Project Name:	BASIC TRUCK ROLL OVER	Sampling Condition:	** (See Notes)
Project Number:	MALEY WELL	Sample Received By:	Jodi Henson
Project Location:	HWY 285 & NORTH TRUCK ROUTE, NM		

Sample ID: MALEY WATER WELL (H100333-01)

Silver, 200.7		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Silver	<0.010	0.010	02/23/2011	ND	0.050	100	0.0500	0.00	GAL	
Sodium, 200.7		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sodium	129	0.500	02/23/2011	ND	18.6	115	16.2	0.375	GAL	
Sulfate 375.4		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate	419	10.0	02/23/2011	ND	37.5	93.8	40.0	1.06		
TDS 160.1		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS	1230	5.00	02/23/2011	ND				0.734		
Total Alkalinity 310.1M		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Alkalinity, Total	212	4.00	02/23/2011	ND	780	95.1	820	4.88		
Zinc 200.7		mg/L		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Zinc	<0.050	0.050	02/23/2011	ND	2.25	112	2.00	2.25	GAL	

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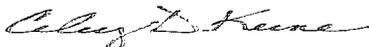
Notes and Definitions

GAL	Analysis subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.
A-01	RPD of the duplicate analysis was outside historical limits. Both results still above regulatory limit.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500C1-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

