

Bratcher, Mike, EMNRD

From: Cliff P. Brunson [cbrunson@bbcinternational.com]
Sent: Wednesday, January 12, 2011 3:11 PM
To: Bratcher, Mike, EMNRD
Cc: Kelton Beaird; Ken Swinney; Jennifer Gilkey
Subject: Oxy MidCon-Lakewood "15" State #1
Attachments: Oxy Lakewood 15 State #1.pdf

Mike,

This e-mail is to confirm our discussion yesterday, Jan. 11, 2010, concerning the remediation plan for the Oxy Lakewood "15" State #1 release. I have attached the information that we reviewed together.

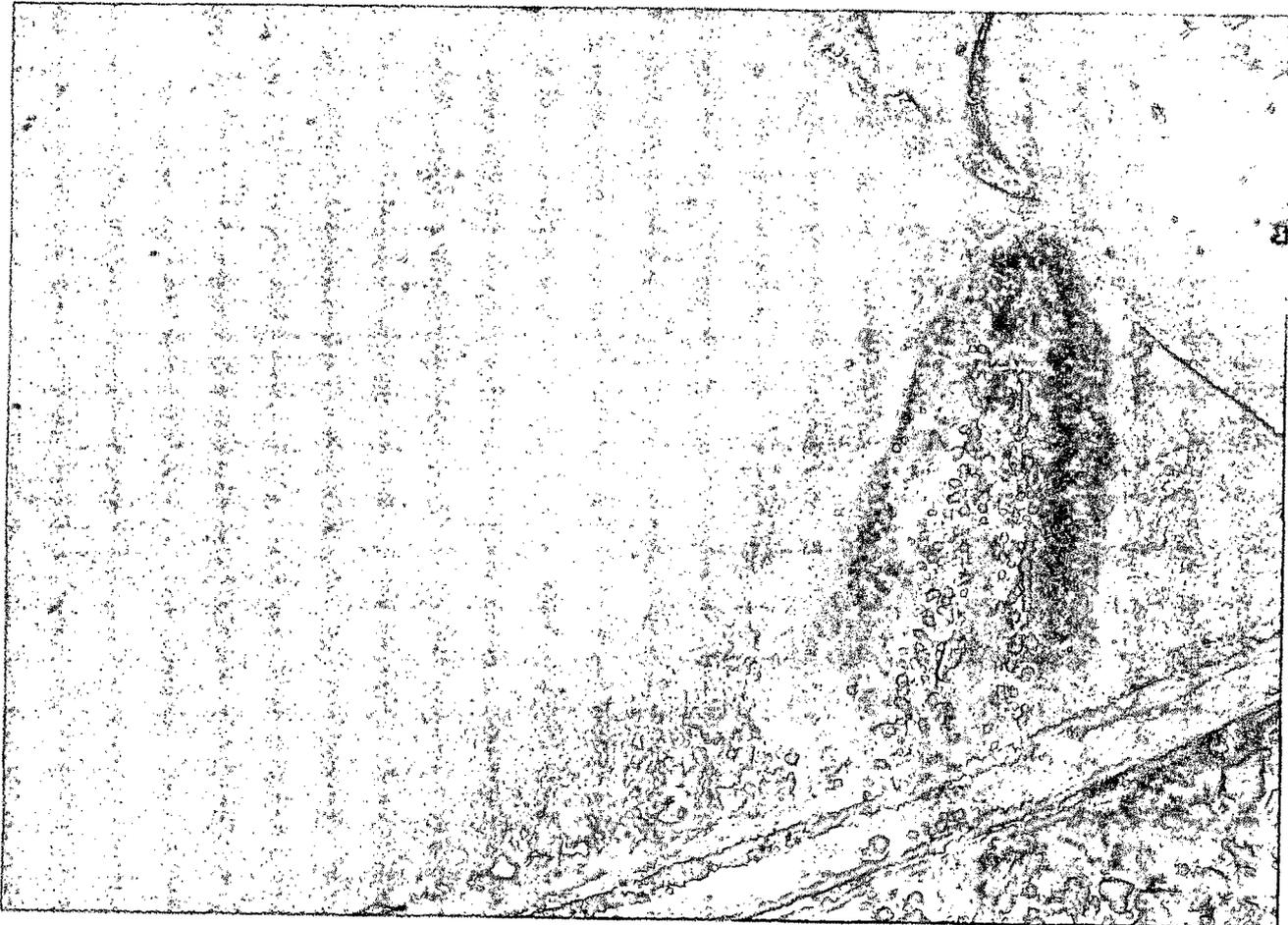
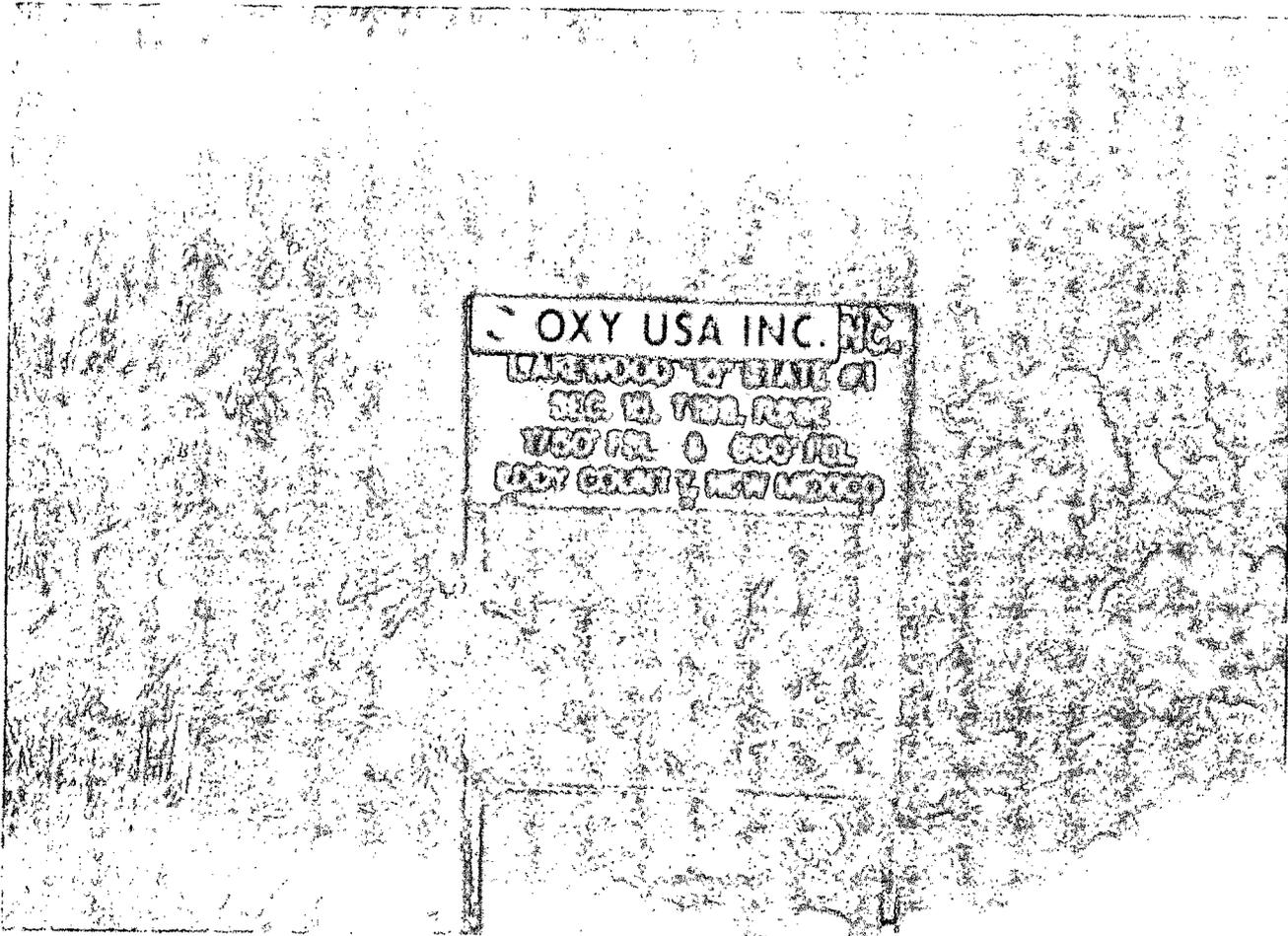
As you recall, Oxy proposed a two foot excavation inside the battery firewall across the spill site and the areas just outside the firewall. The excavated soil will be disposed of at an OCD-approved facility and the site will be backfilled with clean soil.

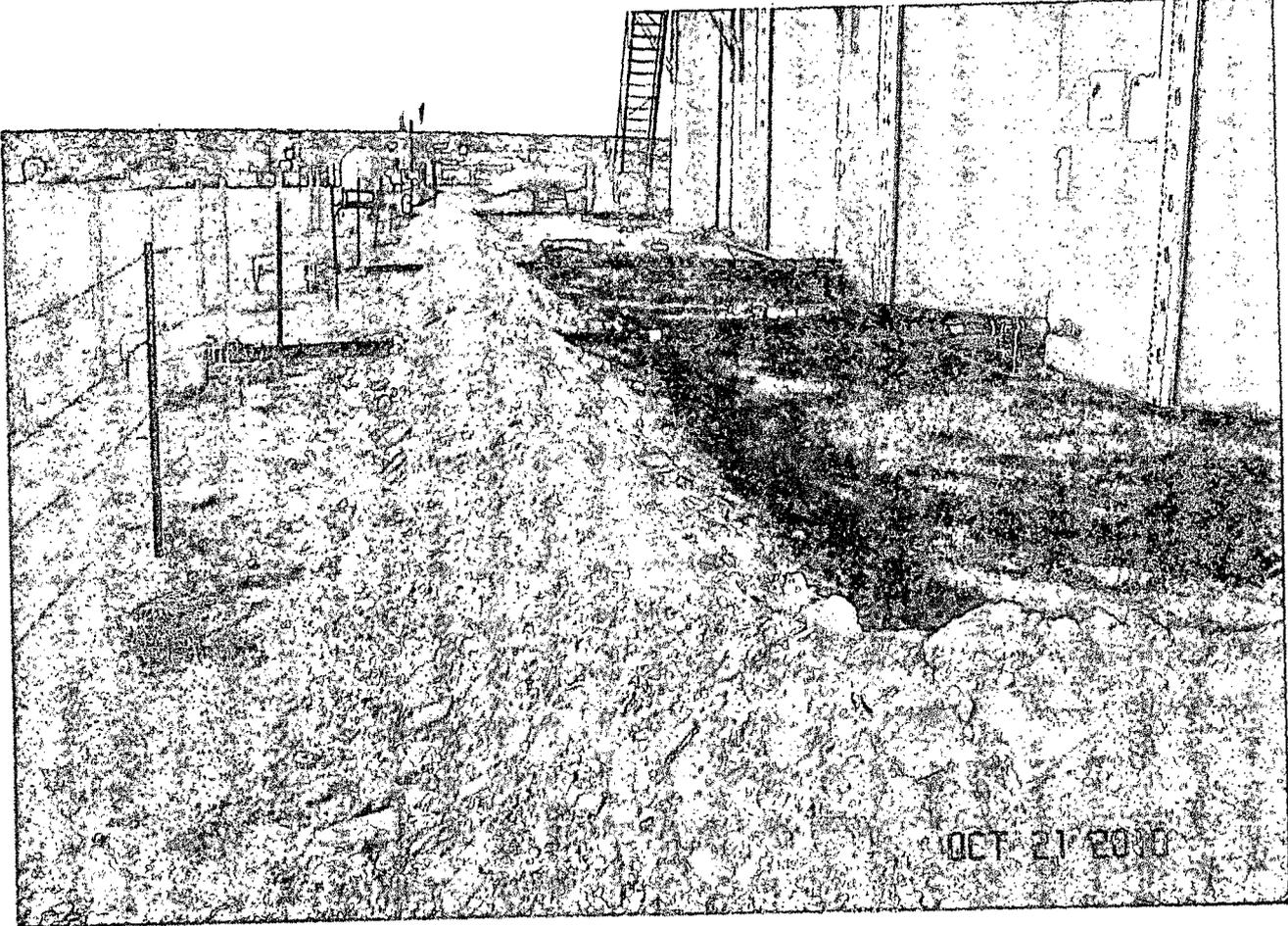
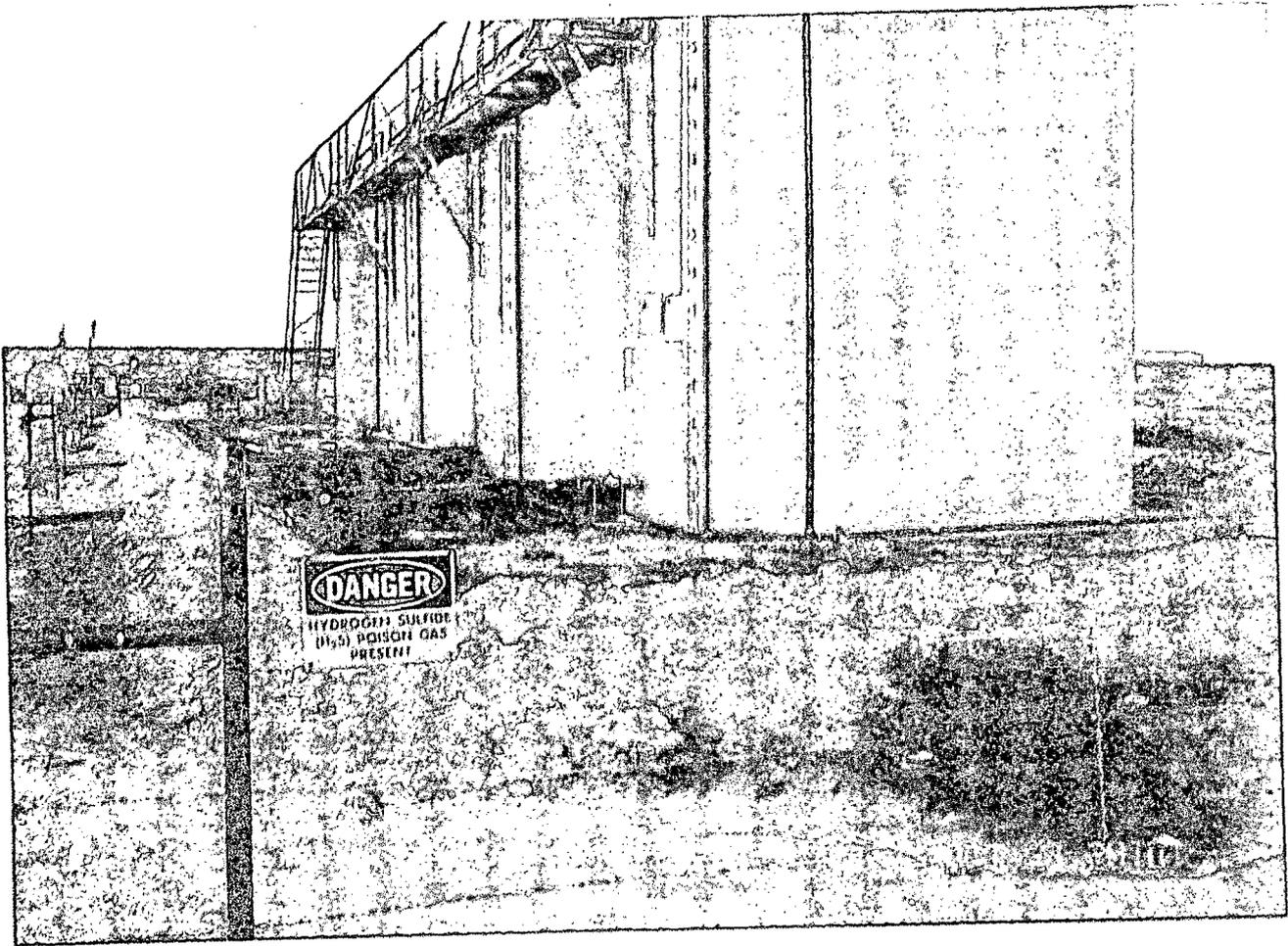
Please respond back via e-mail with your concurrence and approval.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
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World-Wide Environmental Specialists
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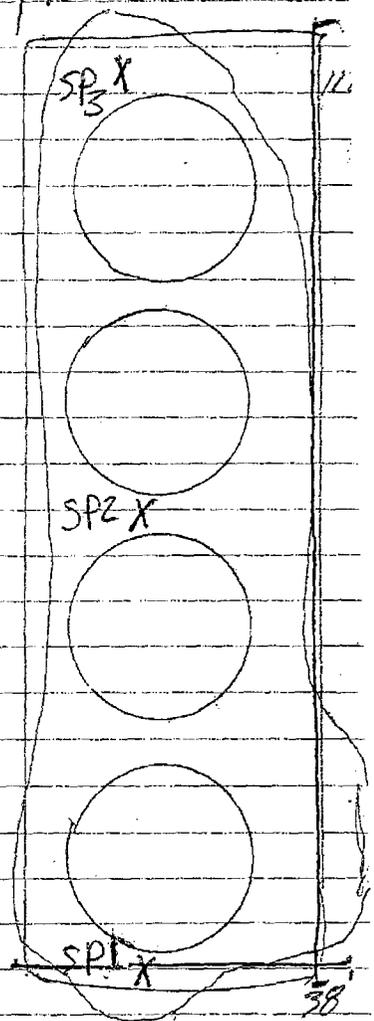
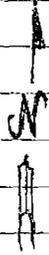






014 / LAKEWOOD "15" St#1

11/4/10



	CL-	ODOR	SOIL	TIME
✓ SP1 @ Surface	200	Strong	DARK	10:00
✓ @ 1'	200	Slight	Caliche / stained	10:30
@ 2'	200	Slight	caliche / stained	10:50
✓ @ 3'	200	NO	BRWN	11:20
✓ SP2 @ Surface	200	Strong	DARK	12:20
✓ @ 1'	200	Slight	caliche / stained	12:45
@ 2'	200	Slight	Brown	1:10
✓ @ 3'	200	NO	Brown	1:40
✓ SP3 @ Surface	200	strong	Dark	2:00
✓ @ 1'	200	slight	caliche / stained	2:30
@ 2'	200	slight	Brown	2:50
✓ @ 3'	200	NO	BROWN	3:10

GPS
 SP1 32.65765°
 104.36276°

SP2 32.67771°
 104.36275°

SP3 32.65783°
 104.36277°

SUBMITTED
 11/5/10



PHONE (575) 393-7326 • 181 E. MARLAND • HOBBS, NM 88240

November 21, 2010

Cliff Brunson
BBC International, Inc.
P.O. Box 805
Hobbs, NM 88241

RE: LAKEWOOD "15" ST #1

Enclosed are the results of analyses for samples received by the laboratory on 11/12/10 16:40.

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,

Celey D. Keene
Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received:	11/12/2010	Sampling Date:	11/04/2010
Reported:	11/21/2010	Sampling Type:	Soil
Project Name:	LAKEWOOD "15" ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NM		

Sample ID: S P 1 @ SURFACE (H021290-01)

BTEX 8021B		mg/kg		Analyzed By: cms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/17/2010	ND	1.82	90.8	2.00	3.41	
Toluene*	19.8	0.500	11/17/2010	ND	1.76	88.0	2.00	2.70	
Ethylbenzene*	7.99	0.500	11/17/2010	ND	1.72	86.0	2.00	3.59	
Total Xylenes*	49.7	1.50	11/17/2010	ND	5.34	88.9	6.00	4.09	

Surrogate: 4-Bromofluorobenzene (PIL) 60.5 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	11/15/2010	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: AB				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2760	50.0	11/16/2010	ND	154	76.9	200	3.79	
DRO >C10-C28	30500	50.0	11/16/2010	ND	152	76.1	200	0.995	

Surrogate: 1-Chlorooctane 160 % 70-130

Surrogate: 1-Chlorooctadecane 133 % 70-130

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received:	11/12/2010	Sampling Date:	11/04/2010
Reported:	11/21/2010	Sampling Type:	Soil
Project Name:	LAKWOOD "15" ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NM		

Sample ID: S P 1 @ 1' (H021290-02)

BTEX 8021B		mg/kg		Analyzed By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2010	ND	1.82	90.8	2.00	3.41	
Toluene*	0.741	0.050	11/17/2010	ND	1.76	88.0	2.00	2.70	
Ethylbenzene*	0.086	0.050	11/17/2010	ND	1.72	86.0	2.00	3.59	
Total Xylenes*	0.471	0.150	11/17/2010	ND	5.34	88.9	6.00	4.09	

Surrogate: 4-Bromofluorobenzene (PII) 110 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	11/15/2010	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	67.3	10.0	11/16/2010	ND	154	76.9	200	3.79	
DRO >C10-C28	505	10.0	11/16/2010	ND	152	76.1	200	0.995	

Surrogate: 1-Chlorooctane 101 % 70-130

Surrogate: 1-Chlorooctadecane 100 % 70-130

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Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 11/12/2010
Reported: 11/21/2010
Project Name: LAKEWOOD "15" ST #1
Project Number: NONE GIVEN
Project Location: CARLSBAD, NM

Sampling Date: 11/04/2010
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: S P 1 @ 3' (H021290-03)

BTEX 8021B		mg/kg		Analyzed By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/17/2010	ND	1.82	90.8	2.00	3.41	
Toluene*	2.07	0.100	11/17/2010	ND	1.76	88.0	2.00	2.70	
Ethylbenzene*	0.648	0.100	11/17/2010	ND	1.72	86.0	2.00	3.59	
Total Xylenes*	3.75	0.300	11/17/2010	ND	5.34	88.9	6.00	4.09	

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/15/2010	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/16/2010	ND	154	76.9	200	3.79	
DRO >C10-C28	<10.0	10.0	11/16/2010	ND	152	76.1	200	0.995	

Surrogate: 1-Chlorooctane 89.9 % 70-130

Surrogate: 1-Chlorooctadecane 93.5 % 70-130

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Hobbs NM, 88241
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Received: 11/12/2010
Reported: 11/21/2010
Project Name: LAKEWOOD "15" ST #1
Project Number: NONE GIVEN
Project Location: CARLSBAD, NM

Sampling Date: 11/04/2010
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: S P 2 @ SURFACE (H021290-04)

BTEX 8021B		mg/kg		Analyzed By: cms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2010	ND	1.82	90.8	2.00	3.41		
Toluene*	1.09	0.050	11/17/2010	ND	1.76	88.0	2.00	2.70		
Ethylbenzene*	0.652	0.050	11/17/2010	ND	1.72	86.0	2.00	3.59		
Total Xylenes*	3.95	0.150	11/17/2010	ND	5.34	88.9	6.00	4.09		

Surrogate: 4-Bromofluorobenzene (PII) 85.4 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	816	16.0	11/15/2010	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	188	10.0	11/16/2010	ND	154	76.9	200	3.79		
DRO >C10-C28	964	10.0	11/16/2010	ND	152	76.1	200	0.995		

Surrogate: 1-Chlorooctane 101 % 70-130

Surrogate: 1-Chlorooctadecane 105 % 70-130

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Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received:	11/12/2010	Sampling Date:	11/04/2010
Reported:	11/21/2010	Sampling Type:	Soil
Project Name:	LAKEWOOD "15" ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NM		

Sample ID: S P 2 @ 1' (H021290-05)

BTEX 8021B		mg/kg		Analyzed By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/17/2010	ND	1.82	90.8	2.00	3.41	
Toluene*	0.521	0.050	11/17/2010	ND	1.76	88.0	2.00	2.70	
Ethylbenzene*	0.067	0.050	11/17/2010	ND	1.72	86.0	2.00	3.59	
Total Xylenes*	0.385	0.150	11/17/2010	ND	5.34	88.9	6.00	4.09	

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	11/15/2010	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	192	10.0	11/16/2010	ND	154	76.9	200	3.79	
DRO >C10-C28	1000	10.0	11/16/2010	ND	152	76.1	200	0.995	

Surrogate: 1-Chlorooctane 107 % 70-130

Surrogate: 1-Chlorooctadecane 112 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

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Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received:	11/12/2010	Sampling Date:	11/04/2010
Reported:	11/21/2010	Sampling Type:	Soil
Project Name:	LAKWOOD "15" ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NM		

Sample ID: S P 2 @ 3' (H021290-06)

BTEX 8021B		mg/kg		Analyzed By: cms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.250	0.250	11/17/2010	ND	1.82	90.8	2.00	3.41	
Toluene*	0.381	0.250	11/17/2010	ND	1.76	88.0	2.00	2.70	
Ethylbenzene*	0.250	0.250	11/17/2010	ND	1.72	86.0	2.00	3.59	
Total Xylenes*	<0.750	0.750	11/17/2010	ND	5.34	88.9	6.00	4.09	

Surrogate: 4-Bromofluorobenzene (PIL) 110 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/15/2010	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: AB					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/16/2010	ND	154	76.9	200	3.79	
DRO >C10-C28	<10.0	10.0	11/16/2010	ND	152	76.1	200	0.995	

Surrogate: 1-Chlorooctane 95.3 % 70-130

Surrogate: 1-Chlorooctadecane 95.3 % 70-130

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Received:	11/12/2010	Sampling Date:	11/04/2010
Reported:	11/21/2010	Sampling Type:	Soil
Project Name:	LAKEWOOD "15" ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Celey D. Keene
Project Location:	CARLSBAD, NM		

Sample ID: S P 3 @ SURFACE (H021290-07)

BTEX 8021B		mg/kg		Analyzed By: cms					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<1.00	1.00	11/17/2010	ND	1.82	90.8	2.00	3.41		
Toluene*	39.4	1.00	11/17/2010	ND	1.76	88.0	2.00	2.70		
Ethylbenzene*	15.4	1.00	11/17/2010	ND	1.72	86.0	2.00	3.59		
Total Xylenes*	90.2	3.00	11/17/2010	ND	5.34	88.9	6.00	4.09		

Surrogate: 4-Bromofluorobenzene (PIL) 66.2 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/15/2010	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: AB					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2970	50.0	11/16/2010	ND	154	76.9	200	3.79		
DRO >C10-C28	26600	50.0	11/16/2010	ND	152	76.1	200	0.995		

Surrogate: 1-Chlorooctane 162 % 70-130

Surrogate: 1-Chlorooctadecane 121 % 70-130

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Received:	11/12/2010	Sampling Date:	11/04/2010
Reported:	11/21/2010	Sampling Type:	Soil
Project Name:	LAKEWOOD "15" ST #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Cel�y D. Keene
Project Location:	CARLSBAD, NM		

Sample ID: S P 3 @ 1' (H021290-08)

BTEX 8021B		mg/kg		Analyzed By: cms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/17/2010	ND	1.82	90.8	2.00	3.41		
Toluene*	1.22	0.050	11/17/2010	ND	1.76	88.0	2.00	2.70		
Ethylbenzene*	0.363	0.050	11/17/2010	ND	1.72	86.0	2.00	3.59		
Total Xylenes*	2.04	0.150	11/17/2010	ND	5.34	88.9	6.00	4.09		

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	784	16.0	11/15/2010	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	76.5	10.0	11/16/2010	ND	154	76.9	200	3.79		
DRO >C10-C28	492	10.0	11/16/2010	ND	152	76.1	200	0.995		

Surrogate: 1-Chlorooctane 96.7 % 70-130

Surrogate: 1-Chlorooctadecane 99.4 % 70-130

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Cel y D. Keene, Lab Director/Quality Manager

Analytical Results For:

BBC International, Inc.
Cliff Brunson
P.O. Box 805
Hobbs NM, 88241
Fax To: (505) 397-0397

Received: 11/12/2010
Reported: 11/21/2010
Project Name: LAKEWOOD "15" ST #1
Project Number: NONE GIVEN
Project Location: CARLSBAD, NM

Sampling Date: 11/04/2010
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Celey D. Keene

Sample ID: S P 3 @ 3' (H021290-09)

BTEX 8021B		mg/kg		Analyzed By: cms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.250	0.250	11/17/2010	ND	1.82	90.8	2.00	3.41		
Toluene*	0.562	0.250	11/17/2010	ND	1.76	88.0	2.00	2.70		
Ethylbenzene*	<0.250	0.250	11/17/2010	ND	1.72	86.0	2.00	3.59		
Total Xylenes*	<0.750	0.750	11/17/2010	ND	5.34	88.9	6.00	4.09		

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/15/2010	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: AB						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	11/16/2010	ND	154	76.9	200	3.79		
DRO >C10-C28	<10.0	10.0	11/16/2010	ND	152	76.1	200	0.995		

Surrogate: 1-Chlorooctane 92.6 % 70-130

Surrogate: 1-Chlorooctadecane 93.3 % 70-130

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Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

