

Bratcher, Mike, EMNRD

From: Bradley Blevins [bradley.blevins@chk.com]
Sent: Wednesday, May 02, 2012 10:11 AM
To: Bratcher, Mike, EMNRD
Cc: Bradley Blevins
Subject: Brushy 12 Federal- Release
Attachments: 20120502095827929.pdf; 20120411074246242.pdf

Follow Up Flag: Follow up
Flag Status: Flagged

Mike,

Please find the attached lab data and initial C-141 for the Brushy 12 Federal release, this is the location that we had a release on due to hot oil unit catching fire. We have excavated and hauled 1.5 feet from the flow path. As seen in the lab data the initial samples showed high chlorides and after further excavation the numbers dropped off pretty good. Depth to ground water shows to be around 125 feet. I would like to get your approval to backfill the site based on the data provided. If you have any questions please give me a call, I will be out of town Thursday and Friday of this week but should still have phone service.

Thanks,

Bradley Blevins
EH & S Field Specialist
DAR
Hobbs Field Office
North Permian Division
Office: (575) 391-1462 x 86424
Cell: (575) 441-0341
Fax: (575) 391-6679



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

April 27, 2012

Daniel Dominguez
Environmental Plus, Inc.
P.O. Box 1558
Eunice, NM 88231

RE: BRUSHY 12 TB

Enclosed are the results of analyses for samples received by the laboratory on 04/26/12 9:52.

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 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 (V1, 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:

 Environmental Plus, Inc.
 Daniel Dominguez
 P.O. Box 1558
 Eunice NM, 88231
 Fax To: (505) 394-2601

Received:	04/10/2012	Sampling Date:	04/09/2012
Reported:	04/17/2012	Sampling Type:	Soil
Project Name:	BRUSHY 12 TB	Sampling Condition:	** (See Notes)
Project Number:	160894	Sample Received By:	Celey D. Keene
Project Location:	UL-N, SEC. 12 T26S R29E		

Sample ID: BH-1 (10") (H200818-01)

BTEx 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2012	ND	2.05	102	2.00	3.62	
Toluene*	<0.050	0.050	04/13/2012	ND	2.16	108	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/13/2012	ND	2.17	109	2.00	2.55	
Total Xylenes*	<0.150	0.150	04/13/2012	ND	6.79	113	6.00	2.15	

Surrogate 4-Bromofluorobenzene (PIL) 102 % 61.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/13/2012	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/13/2012	ND	202	101	200	1.06	
DRO >C10-C28	<10.0	10.0	04/13/2012	ND	198	99.0	200	6.49	

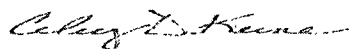
Surrogate 1-Chlorooctane 110 % 55.5-154

Surrogate 1-Chlorooctadecane 118 % 57.6-158

Cardinal Laboratories

* = 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:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 04/10/2012
Reported: 04/17/2012
Project Name: BRUSHY 12 TB
Project Number: 160894
Project Location: UL-N, SEC. 12 T26S R29E

Sampling Date: 04/09/2012
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: BH-2 (10") (H200818-02)

BTX 8021B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2012	ND	2.05	102	2.00	3.62	
Toluene*	<0.050	0.050	04/13/2012	ND	2.16	108	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/13/2012	ND	2.17	109	2.00	2.55	
Total Xylenes*	<0.150	0.150	04/13/2012	ND	6.79	113	6.00	2.15	

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 64.4-134

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	04/13/2012	ND	416	104	400	3.92	

TPH 8015M

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/14/2012	ND	202	101	200	1.06	
DRO >C10-C28	35.6	10.0	04/14/2012	ND	198	99.0	200	6.49	

Surrogate: 1-Chlorooctane 111 % 55.5-154

Surrogate: 1-Chlorooctadecane 118 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 04/26/2012
Reported: 04/27/2012
Project Name: BRUSHY 12 TB
Project Number: 160894
Project Location: UL-N, SEC. 12 T26S R29E

Sampling Date: 04/25/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-2 (1,5') (H200957-01)

BTEX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2012	ND	2.13	107	2.00	1.14	
Toluene*	<0.050	0.050	04/26/2012	ND	2.22	111	2.00	0.710	
Ethylbenzene*	<0.050	0.050	04/26/2012	ND	2.23	112	2.00	0.0436	
Total Xylenes*	<0.150	0.150	04/26/2012	ND	6.88	115	6.00	0.304	

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 64.4-134

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	04/26/2012	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/26/2012	ND	182	90.8	200	2.08	
DRO >C10-C28	21.8	10.0	04/26/2012	ND	196	98.2	200	12.3	

Surrogate: 1-Chlorooctane 103 % 55.5-151

Surrogate: 1-Chlorooctadecane 111 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Environmental Plus, Inc.
 Daniel Dominguez
 P.O. Box 1558
 Eunice NM, 88231
 Fax To: (505) 394-2601

 Received: 04/26/2012
 Reported: 04/27/2012
 Project Name: BRUSHY 12 TB
 Project Number: 160894
 Project Location: UL-N, SEC. 12 T26S R29E

 Sampling Date: 04/25/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP-2 (3') (H200957-02)

BTEX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2012	ND	2.13	107	2.00	1.14	
Toluene*	<0.050	0.050	04/26/2012	ND	2.22	111	2.00	0.710	
Ethylbenzene*	<0.050	0.050	04/26/2012	ND	2.23	112	2.00	0.0436	
Total Xylenes*	<0.150	0.150	04/26/2012	ND	6.88	115	6.00	0.304	

Surrogate 4-Bromofluorobenzene (PIL) 103 % 61.4-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	04/26/2012	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/26/2012	ND	182	90.8	200	2.08	
DRO >C10-C28	<10.0	10.0	04/26/2012	ND	196	98.2	200	12.3	

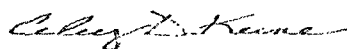
Surrogate 1-Chlorooctane 107 % 55.5-154

Surrogate 1-Chlorooctadecane 110 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 04/26/2012
Reported: 04/27/2012
Project Name: BRUSHY 12 TB
Project Number: 160894
Project Location: UL-N, SEC. 12 T26S R29E

Sampling Date: 04/25/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-2 (7%) (H200957-03)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2012	ND	2.13	107	2.00	1.14	
Toluene*	<0.050	0.050	04/26/2012	ND	2.22	111	2.00	0.710	
Ethylbenzene*	<0.050	0.050	04/26/2012	ND	2.23	112	2.00	0.0436	
Total Xylenes*	<0.150	0.150	04/26/2012	ND	6.88	115	6.00	0.304	

Surrogate 4-Bromofluorobenzene (PII) 103 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	04/26/2012	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/26/2012	ND	182	90.8	200	2.08		
DRO >C10-C28	<10.0	10.0	04/26/2012	ND	196	98.2	200	12.3		

Surrogate 1-Chlorooctane 104 % 55.5-154

Surrogate 1-Chlorooctadecane 106 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 04/10/2012
Reported: 04/17/2012
Project Name: BRUSHY 12 TB
Project Number: 160894
Project Location: UL-N, SEC. 12 T26S R29E

Sampling Date: 04/09/2012
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: BH-3 (10") (H200818-03)

BTX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2012	ND	2.05	102	2.00	3.62	
Toluene*	<0.050	0.050	04/13/2012	ND	2.16	108	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/13/2012	ND	2.17	109	2.00	2.55	
Total Xylenes*	<0.150	0.150	04/13/2012	ND	6.79	113	6.00	2.15	

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 64.4-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	04/13/2012	ND	416	104	400	3.92	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/14/2012	ND	202	101	200	1.06	
DRO >C10-C28	191	10.0	04/14/2012	ND	198	99.0	200	6.49	

Surrogate: 1-Chlorooctane 102 % 55.5-154

Surrogate: 1-Chlorooctadecane 114 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Environmental Plus, Inc.
 Daniel Dominguez
 P.O. Box 1558
 Eunice NM, 88231
 Fax To: (505) 394-2601

 Received: 04/26/2012
 Reported: 04/27/2012
 Project Name: BRUSHY 12 TB
 Project Number: 160894
 Project Location: UL-N, SEC. 12 T26S R29E

 Sampling Date: 04/25/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP-3 (1.5') (H200957-04)

BTX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2012	ND	2.13	107	2.00	1.14	
Toluene*	<0.050	0.050	04/26/2012	ND	2.22	111	2.00	0.710	
Ethylbenzene*	<0.050	0.050	04/26/2012	ND	2.23	112	2.00	0.0436	
Total Xylenes*	<0.150	0.150	04/26/2012	ND	6.88	115	6.00	0.304	

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	04/26/2012	ND	432	108	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/26/2012	ND	182	90.8	200	2.08	
DRO >C10-C28	<10.0	10.0	04/26/2012	ND	196	98.2	200	12.3	

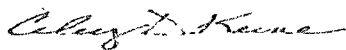
Surrogate: 1-Chlorooctane 101 % 55.5-154

Surrogate: 1-Chlorooctadecane 102 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Environmental Plus, Inc.
 Daniel Dominguez
 P.O. Box 1558
 Eunice NM, 88231
 Fax To: (505) 394-2601

 Received: 04/26/2012
 Reported: 04/27/2012
 Project Name: BRUSHY 12 TB
 Project Number: 160894
 Project Location: UL-N, SEC. 12 T26S R29E

 Sampling Date: 04/25/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP-3 (3') (H200957-05)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2012	ND	2.13	107	2.00	1.14	
Toluene*	<0.050	0.050	04/26/2012	ND	2.22	111	2.00	0.710	
Ethylbenzene*	<0.050	0.050	04/26/2012	ND	2.23	112	2.00	0.0436	
Total Xylenes*	<0.150	0.150	04/26/2012	ND	6.88	115	6.00	0.304	

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/26/2012	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/26/2012	ND	182	90.8	200	2.08	
DRO >C10 C28	<10.0	10.0	04/26/2012	ND	196	98.2	200	12.3	

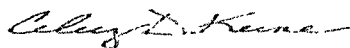
Surrogate: 1-Chlorooctane 101 % 55.5-154

Surrogate: 1-Chlorooctadecane 103 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Environmental Plus, Inc.
 Daniel Dominguez
 P.O. Box 1558
 Eunice NM, 88231
 Fax To: (505) 394-2601

 Received: 04/26/2012
 Reported: 04/27/2012
 Project Name: BRUSHY 12 TB
 Project Number: 160894
 Project Location: UL-N, SEC. 12 T26S R29E

 Sampling Date: 04/25/2012
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP-3 (5') (H200957-06)

BTX 8021B			mg/kg							Analyzed By: AP
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2012	ND	2.13	107	2.00	1.14		
Toluene*	<0.050	0.050	04/26/2012	ND	2.22	111	2.00	0.710		
Ethylbenzene*	<0.050	0.050	04/26/2012	ND	2.23	112	2.00	0.0436		
Total Xylenes*	<0.150	0.150	04/26/2012	ND	6.88	115	6.00	0.304		

Surrogate, 1-Bromofluorobenzene (PIL) 103 % 64.4-134

Chloride, SM4500Cl-B			mg/kg							Analyzed By: HM
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	04/26/2012	ND	432	108	400	3.77		

TPH 8015M			mg/kg							Analyzed By: MS
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/26/2012	ND	182	90.8	200	2.08		
DRO >C10-C28	<10.0	10.0	04/26/2012	ND	196	98.2	200	12.3		

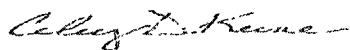
Surrogate, 1-Chlorooctane 93.2 % 55.5-154

Surrogate, 1-Chloronadecane 94.4 % 57.6-158

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Analytical Results For:

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 Daniel Dominguez
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 Eunice NM, 88231
 Fax To: (505) 394-2601

 Received: 04/10/2012
 Reported: 04/17/2012
 Project Name: BRUSHY 12 TB
 Project Number: 160894
 Project Location: UL-N, SEC. 12 T26S R29E

 Sampling Date: 04/09/2012
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Celey D. Keene

Sample ID: BH-4 (1') (H200818-04)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2012	ND	2.05	102	2.00	3.62	
Toluene*	<0.050	0.050	04/13/2012	ND	2.16	108	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/13/2012	ND	2.17	109	2.00	2.55	
Total Xylenes*	<0.150	0.150	04/13/2012	ND	6.79	113	6.00	2.15	

Surrogate 4-Bromofluorobenzene (PIL) 99.8% 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3400	16.0	04/13/2012	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/14/2012	ND	202	101	200	1.06	
DRO > C10-C28	351	10.0	04/14/2012	ND	198	99.0	200	6.19	

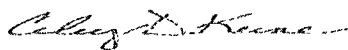
Surrogate 1-Chlorooctane 99.1% 55.5-154

Surrogate 1-Chlorooctadecane 99.0% 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
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Fax To: (505) 394-2601

Received: 04/26/2012
Reported: 04/27/2012
Project Name: BRUSHY 12 TB
Project Number: 160894
Project Location: UL-N, SEC. 12 T26S R29E

Sampling Date: 04/25/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-4 (1.5') (H200957-07)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2012	ND	2.13	107	2.00	1.14		
Toluene*	<0.050	0.050	04/26/2012	ND	2.22	111	2.00	0.710		
Ethylbenzene*	<0.050	0.050	04/26/2012	ND	2.23	112	2.00	0.0436		
Total Xylenes*	<0.150	0.150	04/26/2012	ND	6.88	115	6.00	0.304		

Surrogate 4-Bromofluorobenzene (PIL) 104 % 644-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	04/26/2012	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/26/2012	ND	182	90.8	200	2.08		
DRO >C10-C28	<10.0	10.0	04/26/2012	ND	196	98.2	200	12.3		

Surrogate 1-Chlorooctane 90.5 % 555-154

Surrogate 1-Chlorooctadecane 89.3 % 576-158

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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Received: 04/26/2012
Reported: 04/27/2012
Project Name: BRUSHY 12 TB
Project Number: 160894
Project Location: UL-N, SEC. 12 T26S R29E

Sampling Date: 04/25/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-4 (3') (H200957-08)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2012	ND	2.13	107	2.00	1.14	
Toluene*	<0.050	0.050	04/26/2012	ND	2.22	111	2.00	0.710	
Ethylbenzene*	<0.050	0.050	04/26/2012	ND	2.23	112	2.00	0.0436	
Total Xylenes*	<0.150	0.150	04/26/2012	ND	6.88	115	6.00	0.304	

Surrogate 4-Bromofluorobenzene (PIL) 104% 61.4-13.4

Chloride, SM4500Cl-B		mg/kg		Analyzed By: IIM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/26/2012	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/26/2012	ND	182	90.8	200	2.08	
DRO >C10-C28	<10.0	10.0	04/26/2012	ND	196	98.2	200	12.3	

Surrogate 1-Chlorooctane 107% 55.5-15.4

Surrogate 1-Chlorooctadecane 110% 57.6-15.8

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Celest D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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Fax To: (505) 394-2601

Received: 04/26/2012
Reported: 04/27/2012
Project Name: BRUSHY 12 TB
Project Number: 160894
Project Location: UL-N, SEC. 12 T26S R29E

Sampling Date: 04/25/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-4 (7') (H200957-09)

BTEx 8021B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2012	ND	2.13	107	2.00	1.14	
Toluene*	<0.050	0.050	04/26/2012	ND	2.22	111	2.00	0.710	
Ethylbenzene*	<0.050	0.050	04/26/2012	ND	2.23	112	2.00	0.0436	
Total Xylenes*	<0.150	0.150	04/26/2012	ND	6.88	115	6.00	0.304	

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 64.1-131

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	04/26/2012	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/26/2012	ND	182	90.8	200	2.08	
DRO >C10-C28	<10.0	10.0	04/26/2012	ND	196	98.2	200	12.3	

Surrogate: 1-Chlorooctane 92.1 % 55.5-154

Surrogate: 1-Chlorooctadecane 95.2 % 57.6-158

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Celest D. Keene, Lab Director/Quality Manager

Analytical Results For:

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 Received: 04/10/2012
 Reported: 04/17/2012
 Project Name: BRUSHY 12 TB
 Project Number: 160894
 Project Location: UL-N, SEC. 12 T26S R29E

 Sampling Date: 04/09/2012
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Celey D. Keene

Sample ID: BH-5 (1') (H200818-05)
BTEX 8021B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2012	ND	2.05	102	2.00	3.62	
Toluene*	<0.050	0.050	04/13/2012	ND	2.16	108	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/13/2012	ND	2.17	109	2.00	2.55	
Total Xylenes*	<0.150	0.150	04/13/2012	ND	6.79	113	6.00	2.15	

Surrogate 4-Bromofluorobenzene (PH) 104 % 64.4-134

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	04/13/2012	ND	416	104	400	3.92	

TPH 8015M

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/14/2012	ND	191	95.6	200	6.82	
DRO >C10-C28	166	10.0	04/14/2012	ND	208	104	200	3.99	

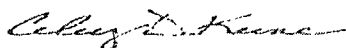
Surrogate 1-Chlorooctane 97.0 % 55.5-154

Surrogate 1-Chlorooctadecane 97.1 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
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Fax To: (505) 394-2601

Received: 04/10/2012
Reported: 04/17/2012
Project Name: BRUSHY 12 TB
Project Number: 160894
Project Location: UL-N, SEC. 12 T26S R29E

Sampling Date: 04/09/2012
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: BH-6 (4") (H200818-06)

BTX 80210		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/13/2012	ND	2.05	102	2.00	3.62	
Toluene*	<0.050	0.050	04/13/2012	ND	2.16	108	2.00	3.01	
Ethylbenzene*	<0.050	0.050	04/13/2012	ND	2.17	109	2.00	2.55	
Total Xylenes*	<0.150	0.150	04/13/2012	ND	6.79	113	6.00	2.15	

Surrogate 4-Bromofluorobenzene (PIL) 102 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	04/13/2012	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/14/2012	ND	191	95.6	200	6.82	
DRO >C10-C28	249	10.0	04/14/2012	ND	208	104	200	3.99	

Surrogate 1-Chlorooctane 108 % 55.5-154

Surrogate 1-Chlorooctadecane 108 % 57.6-158

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Analytical Results For:

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Received: 04/10/2012
Reported: 04/17/2012
Project Name: BRUSHY 12 TB
Project Number: 160894
Project Location: UL-N, SEC. 12 T26S R29E

Sampling Date: 04/09/2012
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Caley D. Keene

Sample ID: BH-7 (4") (H200818-07)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2012	ND	2.08	104	2.00	2.80	
Toluene*	<0.050	0.050	04/16/2012	ND	2.15	108	2.00	2.84	
Ethylbenzene*	<0.050	0.050	04/16/2012	ND	2.14	107	2.00	2.99	
Total Xylenes*	<0.150	0.150	04/16/2012	ND	6.61	110	6.00	2.53	

Surrogate 4-Bromofluorobenzene (PIL) 109 % 61.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/13/2012	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	04/14/2012	ND	191	95.6	200	6.82	
DRO >C10-C28	2800	100	04/14/2012	ND	208	104	200	3.99	

Surrogate, 1-Chlorooctane 102 % 55.5-154

Surrogate, 1-Chlorooctadecane 168 % 57.6-158

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Caley D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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P.O. Box 1558
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Fax To: (505) 394-2601

Received: 04/26/2012
Reported: 04/27/2012
Project Name: BRUSHY 12 TB
Project Number: 160894
Project Location: UL-N, SEC. 12 T26S R29E

Sampling Date: 04/25/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-7 (1.5') (H200957-10)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2012	ND	2.13	107	2.00	1.14	
Toluene*	<0.050	0.050	04/26/2012	ND	2.22	111	2.00	0.710	
Ethylbenzene*	<0.050	0.050	04/26/2012	ND	2.23	112	2.00	0.0436	
Total Xylenes*	<0.150	0.150	04/26/2012	ND	6.88	115	6.00	0.304	

Surrogate: 4-Bromofluorobenzene (PII) 102 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/26/2012	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/26/2012	ND	182	90.8	200	2.08	
DRO >C10-C28	19.4	10.0	04/26/2012	ND	196	98.2	200	12.3	

Surrogate: 1-Chlorooctane 105 % 55.5-154

Surrogate: 1-Chlorooctadecane 107 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 04/10/2012
Reported: 04/17/2012
Project Name: BRUSHY 12 TB
Project Number: 160894
Project Location: UL-N, SEC. 12 T26S R29E

Sampling Date: 04/09/2012
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: BH-8 (4") (H200818-08)

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2012	ND	2.08	104	2.00	2.80	
Toluene*	<0.050	0.050	04/16/2012	ND	2.15	108	2.00	2.84	
Ethylbenzene*	<0.050	0.050	04/16/2012	ND	2.14	107	2.00	2.99	
Total Xylenes*	<0.150	0.150	04/16/2012	ND	6.61	110	6.00	2.53	

Surrogate: 4-Bromofluorobenzene (PH) 115 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/13/2012	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	04/14/2012	ND	191	95.6	200	6.82		
DRO >C10-C28	2820	100	04/14/2012	ND	208	104	200	3.99		

Surrogate: 1-Chlorooctane 119 % 55.5-154

Surrogate: 1-Chlorooctadecane 161 % 57.6-158

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Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 04/26/2012
Reported: 04/27/2012
Project Name: BRUSHY 12 TB
Project Number: 160894
Project Location: UL-N, SEC. 12 T26S R29E

Sampling Date: 04/25/2012
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-8 (1') (H200957-11)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/26/2012	ND	2.13	107	2.00	1.14	
Toluene*	<0.050	0.050	04/26/2012	ND	2.22	111	2.00	0.710	
Ethylbenzene*	<0.050	0.050	04/26/2012	ND	2.23	112	2.00	0.0436	
Total Xylenes*	<0.150	0.150	04/26/2012	ND	6.88	115	6.00	0.304	

Surrogate: 4-Bromofluorobenzene (PII) 103 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/26/2012	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10	<10.0	10.0	04/26/2012	ND	182	90.8	200	2.08	
DRO >C10-C28	25.3	10.0	04/26/2012	ND	196	98.2	200	12.3	

Surrogate: 1-Chlorooctane 107 % 55.5-151

Surrogate: 1-Chlorooctadecane 115 % 57.6-158

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Analytical Results For:

Environmental Plus, Inc.
Daniel Dominguez
P.O. Box 1558
Eunice NM, 88231
Fax To: (505) 394-2601

Received: 04/10/2012
Reported: 04/17/2012
Project Name: BRUSHY 12 TB
Project Number: 160894
Project Location: UL-N, SEC. 12 T265 R29E

Sampling Date: 04/09/2012
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Celey D. Keene

Sample ID: BH9 (4") (H200818-09)

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2012	ND	2.08	104	2.00	2.80	
Toluene*	<0.050	0.050	04/16/2012	ND	2.15	108	2.00	2.84	
Ethylbenzene*	<0.050	0.050	04/16/2012	ND	2.14	107	2.00	2.99	
Total Xylenes*	<0.150	0.150	04/16/2012	ND	6.61	110	6.00	2.53	

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 64.4-131

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192.	16.0	04/13/2012	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	04/14/2012	ND	191	95.6	200	6.82	
DRO >C10-C28	3740	100	04/14/2012	ND	208	104	200	3.99	

Surrogate: 1-Chlorooctane 117 % 55.5-154

Surrogate: 1-Chlorooctadecane 106 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Environmental Plus, Inc.
 Daniel Dominguez
 P.O. Box 1558
 Eunice NM, 88231
 Fax To: (505) 394-2601

Received:	04/26/2012	Sampling Date:	04/25/2012
Reported:	04/27/2012	Sampling Type:	Soil
Project Name:	BRUSHY 12 TB	Sampling Condition:	Cool & Intact
Project Number:	160894	Sample Received By:	Jodi Henson
Project Location:	UL-N, SEC. 12 T26S R29E		

Sample ID: SP-29 (6") (H200957-12)

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/26/2012	ND	2.13	107	2.00	1.14		
Toluene*	<0.050	0.050	04/26/2012	ND	2.22	111	2.00	0.710		
Ethylbenzene*	<0.050	0.050	04/26/2012	ND	2.23	112	2.00	0.0436		
Total Xylenes*	<0.150	0.150	04/26/2012	ND	6.88	115	6.00	0.304		

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 64.4-134

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	04/26/2012	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/26/2012	ND	182	90.8	200	2.08		
DRO >C10-C28	70.4	10.0	04/26/2012	ND	196	98.2	200	12.3		

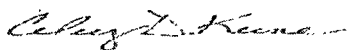
Surrogate: 1-Chlorooctane 98.5 % 55.5-151

Surrogate: 1-Chlorooctadecane 102 % 57.6-158

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Celey D. Keene, Lab Director/Quality Manager

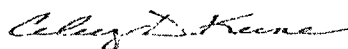
Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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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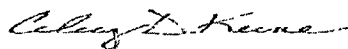
Notes and Definitions

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.
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-	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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