



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

December 19, 2016

TODD ROBERSON

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: OGDEN FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 12/16/16 15:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received:	12/16/2016	Sampling Date:	12/16/2016
Reported:	12/19/2016	Sampling Type:	Soil
Project Name:	OGDEN FLOWLINE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	BTA		

Sample ID: SP 5 - 0 (H602824-01)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2016	ND	1.92	96.0	2.00	2.10	
Toluene*	<0.050	0.050	12/17/2016	ND	2.00	100	2.00	1.88	
Ethylbenzene*	<0.050	0.050	12/17/2016	ND	1.97	98.6	2.00	1.55	
Total Xylenes*	<0.150	0.150	12/17/2016	ND	5.93	98.8	6.00	1.47	
Total BTEX	<0.300	0.300	12/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	12/17/2016	ND	416	104	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	12/17/2016	ND	205	102	200	1.71	
DRO >C10-C28	<10.0	10.0	12/17/2016	ND	211	106	200	5.31	

Surrogate: 1-Chlorooctane 80.4 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TRINITY OILFIELD SERVICES & RENTALS, LLC
 TODD ROBERSON
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

 Received: 12/16/2016
 Reported: 12/19/2016
 Project Name: OGDEN FLOWLINE
 Project Number: NONE GIVEN
 Project Location: BTA

 Sampling Date: 12/16/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 5 - 1 (H602824-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2016	ND	1.92	96.0	2.00	2.10	
Toluene*	<0.050	0.050	12/17/2016	ND	2.00	100	2.00	1.88	
Ethylbenzene*	<0.050	0.050	12/17/2016	ND	1.97	98.6	2.00	1.55	
Total Xylenes*	<0.150	0.150	12/17/2016	ND	5.93	98.8	6.00	1.47	
Total BTEx	<0.300	0.300	12/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3880	16.0	12/17/2016	ND	416	104	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	12/17/2016	ND	205	102	200	1.71	
DRO >C10-C28	<10.0	10.0	12/17/2016	ND	211	106	200	5.31	

Surrogate: 1-Chlorooctane 81.1 % 35-147

Surrogate: 1-Chlorooctadecane 93.7 % 28-171

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TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 12/16/2016
Reported: 12/19/2016
Project Name: OGDEN FLOWLINE
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 12/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 - 2 (H602824-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2016	ND	1.92	96.0	2.00	2.10	
Toluene*	<0.050	0.050	12/17/2016	ND	2.00	100	2.00	1.88	
Ethylbenzene*	<0.050	0.050	12/17/2016	ND	1.97	98.6	2.00	1.55	
Total Xylenes*	<0.150	0.150	12/17/2016	ND	5.93	98.8	6.00	1.47	
Total BTEx	<0.300	0.300	12/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	12/17/2016	ND	416	104	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	12/17/2016	ND	205	102	200	1.71	
DRO >C10-C28	<10.0	10.0	12/17/2016	ND	211	106	200	5.31	

Surrogate: 1-Chlorooctane 84.3 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

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Fax To: NONE

Received: 12/16/2016
Reported: 12/19/2016
Project Name: OGDEN FLOWLINE
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 12/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 - 3 (H602824-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2016	ND	1.92	96.0	2.00	2.10	
Toluene*	<0.050	0.050	12/17/2016	ND	2.00	100	2.00	1.88	
Ethylbenzene*	<0.050	0.050	12/17/2016	ND	1.97	98.6	2.00	1.55	
Total Xylenes*	<0.150	0.150	12/17/2016	ND	5.93	98.8	6.00	1.47	
Total BTEx	<0.300	0.300	12/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	12/17/2016	ND	416	104	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	12/17/2016	ND	205	102	200	1.71	
DRO >C10-C28	<10.0	10.0	12/17/2016	ND	211	106	200	5.31	

Surrogate: 1-Chlorooctane 75.0 % 35-147

Surrogate: 1-Chlorooctadecane 92.6 % 28-171

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TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 12/16/2016
Reported: 12/19/2016
Project Name: OGDEN FLOWLINE
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 12/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 12 - 0 (H602824-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2016	ND	1.92	96.0	2.00	2.10	
Toluene*	<0.050	0.050	12/17/2016	ND	2.00	100	2.00	1.88	
Ethylbenzene*	0.078	0.050	12/17/2016	ND	1.97	98.6	2.00	1.55	
Total Xylenes*	0.249	0.150	12/17/2016	ND	5.93	98.8	6.00	1.47	
Total BTX	0.327	0.300	12/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6530	16.0	12/17/2016	ND	416	104	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	12/17/2016	ND	205	102	200	1.71	
DRO >C10-C28	<10.0	10.0	12/17/2016	ND	211	106	200	5.31	

Surrogate: 1-Chlorooctane 74.5 % 35-147

Surrogate: 1-Chlorooctadecane 82.4 % 28-171

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 12/16/2016
Reported: 12/19/2016
Project Name: OGDEN FLOWLINE
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 12/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 12 - 1 (H602824-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2016	ND	1.92	96.0	2.00	2.10	
Toluene*	<0.050	0.050	12/17/2016	ND	2.00	100	2.00	1.88	
Ethylbenzene*	<0.050	0.050	12/17/2016	ND	1.97	98.6	2.00	1.55	
Total Xylenes*	<0.150	0.150	12/17/2016	ND	5.93	98.8	6.00	1.47	
Total BTEx	<0.300	0.300	12/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	12/17/2016	ND	416	104	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	12/17/2016	ND	205	102	200	1.71	
DRO >C10-C28	12.2	10.0	12/17/2016	ND	211	106	200	5.31	

Surrogate: 1-Chlorooctane 76.1 % 35-147

Surrogate: 1-Chlorooctadecane 86.5 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 TRINITY OILFIELD SERVICES & RENTALS, LLC
 TODD ROBERSON
 P. O. BOX 2587
 HOBBS NM, 88241
 Fax To: NONE

 Received: 12/16/2016
 Reported: 12/19/2016
 Project Name: OGDEN FLOWLINE
 Project Number: NONE GIVEN
 Project Location: BTA

 Sampling Date: 12/16/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 12 - 2 (H602824-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2016	ND	1.92	96.0	2.00	2.10	
Toluene*	<0.050	0.050	12/17/2016	ND	2.00	100	2.00	1.88	
Ethylbenzene*	<0.050	0.050	12/17/2016	ND	1.97	98.6	2.00	1.55	
Total Xylenes*	<0.150	0.150	12/17/2016	ND	5.93	98.8	6.00	1.47	
Total BTEx	<0.300	0.300	12/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1880	16.0	12/17/2016	ND	416	104	400	0.00	QM-07	

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	12/17/2016	ND	205	102	200	1.71	
DRO >C10-C28	<10.0	10.0	12/17/2016	ND	211	106	200	5.31	

Surrogate: 1-Chlorooctane 79.7 % 35-147

Surrogate: 1-Chlorooctadecane 89.8 % 28-171

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 12/16/2016
Reported: 12/19/2016
Project Name: OGDEN FLOWLINE
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 12/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 12 - 3 (H602824-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2016	ND	1.92	96.0	2.00	2.10	
Toluene*	<0.050	0.050	12/17/2016	ND	2.00	100	2.00	1.88	
Ethylbenzene*	<0.050	0.050	12/17/2016	ND	1.97	98.6	2.00	1.55	
Total Xylenes*	<0.150	0.150	12/17/2016	ND	5.93	98.8	6.00	1.47	
Total BTX	<0.300	0.300	12/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	12/17/2016	ND	416	104	400	0.00	

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	12/17/2016	ND	205	102	200	1.71	
DRO >C10-C28	<10.0	10.0	12/17/2016	ND	211	106	200	5.31	

Surrogate: 1-Chlorooctane 77.3 % 35-147

Surrogate: 1-Chlorooctadecane 77.9 % 28-171

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*=Accredited Analyte

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 12/16/2016
Reported: 12/19/2016
Project Name: OGDEN FLOWLINE
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 12/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 21 - 0 (H602824-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2016	ND	1.92	96.0	2.00	2.10	
Toluene*	<0.050	0.050	12/17/2016	ND	2.00	100	2.00	1.88	
Ethylbenzene*	<0.050	0.050	12/17/2016	ND	1.97	98.6	2.00	1.55	
Total Xylenes*	<0.150	0.150	12/17/2016	ND	5.93	98.8	6.00	1.47	
Total BTX	<0.300	0.300	12/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1420	16.0	12/17/2016	ND	416	104	400	0.00		

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	12/17/2016	ND	205	102	200	1.71	
DRO >C10-C28	<10.0	10.0	12/17/2016	ND	211	106	200	5.31	

Surrogate: 1-Chlorooctane 67.8 % 35-147

Surrogate: 1-Chlorooctadecane 84.7 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 12/16/2016
Reported: 12/19/2016
Project Name: OGDEN FLOWLINE
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 12/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 21 - 1 (H602824-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2016	ND	1.92	96.0	2.00	2.10	
Toluene*	<0.050	0.050	12/17/2016	ND	2.00	100	2.00	1.88	
Ethylbenzene*	<0.050	0.050	12/17/2016	ND	1.97	98.6	2.00	1.55	
Total Xylenes*	<0.150	0.150	12/17/2016	ND	5.93	98.8	6.00	1.47	
Total BTX	<0.300	0.300	12/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2160	16.0	12/17/2016	ND	416	104	400	0.00	

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	12/17/2016	ND	205	102	200	1.71	
DRO >C10-C28	<10.0	10.0	12/17/2016	ND	211	106	200	5.31	

Surrogate: 1-Chlorooctane 76.9 % 35-147

Surrogate: 1-Chlorooctadecane 99.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 12/16/2016
Reported: 12/19/2016
Project Name: OGDEN FLOWLINE
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 12/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 21 - 2 (H602824-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/17/2016	ND	1.92	96.0	2.00	2.10	
Toluene*	<0.050	0.050	12/17/2016	ND	2.00	100	2.00	1.88	
Ethylbenzene*	<0.050	0.050	12/17/2016	ND	1.97	98.6	2.00	1.55	
Total Xylenes*	<0.150	0.150	12/17/2016	ND	5.93	98.8	6.00	1.47	
Total BTX	<0.300	0.300	12/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2680	16.0	12/17/2016	ND	416	104	400	0.00	

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	12/17/2016	ND	205	102	200	1.71	
DRO >C10-C28	<10.0	10.0	12/17/2016	ND	211	106	200	5.31	

Surrogate: 1-Chlorooctane 79.4 % 35-147

Surrogate: 1-Chlorooctadecane 99.0 % 28-171

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Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 12/16/2016
Reported: 12/19/2016
Project Name: OGDEN FLOWLINE
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 12/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 21 - 3 (H602824-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/17/2016	ND	1.92	96.0	2.00	2.10		
Toluene*	<0.050	0.050	12/17/2016	ND	2.00	100	2.00	1.88		
Ethylbenzene*	<0.050	0.050	12/17/2016	ND	1.97	98.6	2.00	1.55		
Total Xylenes*	<0.150	0.150	12/17/2016	ND	5.93	98.8	6.00	1.47		
Total BTEx	<0.300	0.300	12/17/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	12/17/2016	ND	416	104	400	0.00	

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	12/17/2016	ND	205	102	200	1.71	
DRO >C10-C28	<10.0	10.0	12/17/2016	ND	211	106	200	5.31	

Surrogate: 1-Chlorooctane 66.4 % 35-147

Surrogate: 1-Chlorooctadecane 84.1 % 28-171

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TODD ROBERSON
P. O. BOX 2587
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Fax To: NONE

Received: 12/16/2016
Reported: 12/19/2016
Project Name: OGDEN FLOWLINE
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 12/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BG 1-0 (H602824-13)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2016	ND	2.13	107	2.00	0.0690	
Toluene*	<0.050	0.050	12/19/2016	ND	2.19	110	2.00	2.25	
Ethylbenzene*	<0.050	0.050	12/19/2016	ND	2.16	108	2.00	2.36	
Total Xylenes*	<0.150	0.150	12/19/2016	ND	6.47	108	6.00	2.22	
Total BTX	<0.300	0.300	12/19/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/17/2016	ND	416	104	400	0.00	

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	12/17/2016	ND	205	102	200	1.71	
DRO >C10-C28	<10.0	10.0	12/17/2016	ND	211	106	200	5.31	

Surrogate: 1-Chlorooctane 79.4 % 35-147

Surrogate: 1-Chlorooctadecane 98.0 % 28-171

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TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 12/16/2016
Reported: 12/19/2016
Project Name: OGDEN FLOWLINE
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 12/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BG 1-1 (H602824-14)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2016	ND	2.13	107	2.00	0.0690	
Toluene*	<0.050	0.050	12/19/2016	ND	2.19	110	2.00	2.25	
Ethylbenzene*	<0.050	0.050	12/19/2016	ND	2.16	108	2.00	2.36	
Total Xylenes*	<0.150	0.150	12/19/2016	ND	6.47	108	6.00	2.22	
Total BTX	<0.300	0.300	12/19/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 73.6-140

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	12/17/2016	ND	416	104	400	0.00	

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	12/19/2016	ND	199	99.5	200	7.12	
DRO >C10-C28	<10.0	10.0	12/19/2016	ND	206	103	200	9.14	

Surrogate: 1-Chlorooctane 76.6 % 35-147

Surrogate: 1-Chlorooctadecane 81.4 % 28-171

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Analytical Results For:

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TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 12/16/2016
Reported: 12/19/2016
Project Name: OGDEN FLOWLINE
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 12/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BG 1-2 (H602824-15)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2016	ND	2.13	107	2.00	0.0690	
Toluene*	<0.050	0.050	12/19/2016	ND	2.19	110	2.00	2.25	
Ethylbenzene*	<0.050	0.050	12/19/2016	ND	2.16	108	2.00	2.36	
Total Xylenes*	<0.150	0.150	12/19/2016	ND	6.47	108	6.00	2.22	
Total BTEx	<0.300	0.300	12/19/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	12/17/2016	ND	416	104	400	0.00	

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	12/19/2016	ND	199	99.5	200	7.12	
DRO >C10-C28	<10.0	10.0	12/19/2016	ND	206	103	200	9.14	

Surrogate: 1-Chlorooctane 72.3 % 35-147

Surrogate: 1-Chlorooctadecane 81.1 % 28-171

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TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 12/16/2016
Reported: 12/19/2016
Project Name: OGDEN FLOWLINE
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 12/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BG 1-3 (H602824-16)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2016	ND	2.13	107	2.00	0.0690	
Toluene*	<0.050	0.050	12/19/2016	ND	2.19	110	2.00	2.25	
Ethylbenzene*	<0.050	0.050	12/19/2016	ND	2.16	108	2.00	2.36	
Total Xylenes*	<0.150	0.150	12/19/2016	ND	6.47	108	6.00	2.22	
Total BTEx	<0.300	0.300	12/19/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	12/17/2016	ND	416	104	400	0.00	

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	12/19/2016	ND	199	99.5	200	7.12	
DRO >C10-C28	<10.0	10.0	12/19/2016	ND	206	103	200	9.14	

Surrogate: 1-Chlorooctane 77.1 % 35-147

Surrogate: 1-Chlorooctadecane 92.4 % 28-171

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Analytical Results For:

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TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 12/16/2016
Reported: 12/19/2016
Project Name: OGDEN FLOWLINE
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 12/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BG 2-0 (H602824-17)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2016	ND	2.13	107	2.00	0.0690	
Toluene*	0.050	0.050	12/19/2016	ND	2.19	110	2.00	2.25	
Ethylbenzene*	<0.050	0.050	12/19/2016	ND	2.16	108	2.00	2.36	
Total Xylenes*	<0.150	0.150	12/19/2016	ND	6.47	108	6.00	2.22	
Total BTX	<0.300	0.300	12/19/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/17/2016	ND	416	104	400	0.00	

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	12/19/2016	ND	199	99.5	200	7.12	
DRO >C10-C28	<10.0	10.0	12/19/2016	ND	206	103	200	9.14	

Surrogate: 1-Chlorooctane 78.7 % 35-147

Surrogate: 1-Chlorooctadecane 86.0 % 28-171

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TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 12/16/2016
Reported: 12/19/2016
Project Name: OGDEN FLOWLINE
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 12/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BG 2-1 (H602824-18)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2016	ND	2.13	107	2.00	0.0690	
Toluene*	<0.050	0.050	12/19/2016	ND	2.19	110	2.00	2.25	
Ethylbenzene*	<0.050	0.050	12/19/2016	ND	2.16	108	2.00	2.36	
Total Xylenes*	<0.150	0.150	12/19/2016	ND	6.47	108	6.00	2.22	
Total BTX	<0.300	0.300	12/19/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 122 % 73.6-140

Chloride, SM4500CI-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	12/17/2016	ND	416	104	400	0.00	

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	12/19/2016	ND	199	99.5	200	7.12	
DRO >C10-C28	<10.0	10.0	12/19/2016	ND	206	103	200	9.14	

Surrogate: 1-Chlorooctane 79.2 % 35-147

Surrogate: 1-Chlorooctadecane 100 % 28-171

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TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 12/16/2016
Reported: 12/19/2016
Project Name: OGDEN FLOWLINE
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 12/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BG 2-2 (H602824-19)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2016	ND	2.13	107	2.00	0.0690	
Toluene*	<0.050	0.050	12/19/2016	ND	2.19	110	2.00	2.25	
Ethylbenzene*	<0.050	0.050	12/19/2016	ND	2.16	108	2.00	2.36	
Total Xylenes*	<0.150	0.150	12/19/2016	ND	6.47	108	6.00	2.22	
Total BTX	<0.300	0.300	12/19/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 119 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	12/17/2016	ND	416	104	400	0.00	

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	12/19/2016	ND	199	99.5	200	7.12	
DRO >C10-C28	<10.0	10.0	12/19/2016	ND	206	103	200	9.14	

Surrogate: 1-Chlorooctane 73.9 % 35-147

Surrogate: 1-Chlorooctadecane 87.4 % 28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC
TODD ROBERSON
P. O. BOX 2587
HOBBS NM, 88241
Fax To: NONE

Received: 12/16/2016
Reported: 12/19/2016
Project Name: OGDEN FLOWLINE
Project Number: NONE GIVEN
Project Location: BTA

Sampling Date: 12/16/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: BG 2-3 (H602824-20)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/19/2016	ND	2.13	107	2.00	0.0690	
Toluene*	<0.050	0.050	12/19/2016	ND	2.19	110	2.00	2.25	
Ethylbenzene*	<0.050	0.050	12/19/2016	ND	2.16	108	2.00	2.36	
Total Xylenes*	<0.150	0.150	12/19/2016	ND	6.47	108	6.00	2.22	
Total BTEx	<0.300	0.300	12/19/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	12/17/2016	ND	416	104	400	0.00	

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	12/19/2016	ND	199	99.5	200	7.12	
DRO >C10-C28	<10.0	10.0	12/19/2016	ND	206	103	200	9.14	

Surrogate: 1-Chlorooctane 74.3 % 35-147

Surrogate: 1-Chlorooctadecane 78.6 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Trinity Oilfield		P.O. #:		ANALYSIS REQUEST																																							
Project Manager: Todd Robertson		Company: BTA																																									
Address:		Attn: Clay Tipton																																									
City:		Address:																																									
Phone #:		City:																																									
Fax #:		State:																																									
Project #:		Zip:																																									
Project Name: Ogden Flowline		City:																																									
Project Location:		State:																																									
Sample Name: Tyson Pierce		Phone #:																																									
FOR LAB USE ONLY		Fax #:																																									
Lab I.D. Sample I.D.		(G)RAB OR (C)OMP.		MATRIX		PRESERV		SAMPLING																																			
H602824		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME																			
1		G		1		X																16-Dec		11:01a		X		X		X													
2		G		1		X																16-Dec		11:05a		X		X		X													
3		G		1		X																16-Dec		11:10a		X		X		X													
4		G		1		X																16-Dec		11:18a		X		X		X													
5		G		1		X																16-Dec		11:28a		X		X		X													
6		G		1		X																16-Dec		11:29a		X		X		X													
7		G		1		X																16-Dec		11:31a		X		X		X													
8		G		1		X																16-Dec		11:36a		X		X		X													
9		G		1		X																16-Dec		11:50a		X		X		X													
10		G		1		X																16-Dec		11:52a		X		X		X													
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Relinquished By:		Date:		Received By:		Time:		Sample Condition: Cool Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: (Initials) [Signature]																																	
Delivered By: (Circle One)		UPS - Bus - Other: #75		5.22		No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>		No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>																																	
FORM 600-R-20		f Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476																																									



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Trinity Oilfield		P.O. #:		BILL TO												ANALYSIS REQUEST																							
Project Manager: Todd Robertson		City: State: Zip:		Company: BTA																																			
Address:		Attn: Clay Tipton		Address:																																			
Phone #: Fax #:		Project Owner: BTA		City: State: Zip:																																			
Project Name: Ogden Flowline		Project Location:		Phone #:																																			
Sampler Name: Tyson Pierce		Fax #:		DATE																																			
FOR LAB USE ONLY		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
Lab I.D. Sample I.D.		11		SP21-2		G		1		X		16-Dec		11:58a		X		X		X																			
12		SP21-3		G		1		X		16-Dec		12:03p		X		X		X																					
13		BG1-0		G		1		X		16-Dec		12:15p		X		X		X																					
14		BG1-1		G		1		X		16-Dec		12:17p		X		X		X																					
15		BG1-2		G		1		X		16-Dec		12:19p		X		X		X																					
16		BG1-3		G		1		X		16-Dec		12:24p		X		X		X																					
17		BG2-0		G		1		X		16-Dec		12:35p		X		X		X																					
18		BG2-1		G		1		X		16-Dec		12:38p		X		X		X																					
19		BG2-2		G		1		X		16-Dec		12:42p		X		X		X																					
20		BG2-3		G		1		X		16-Dec		12:45p		X		X		X																					
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Delivered By: (Circle One)		Sampler - UPS - Bus - Other: #75 5:22		Sample Condition: Cool Intact Yes [X] No []		CHECKED BY: [Signature]																																	

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