



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

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October 29, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: A-4 / NERBERG SWD POLYLINE

Enclosed are the results of analyses for samples received by the laboratory on 10/28/14 13:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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](http://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,

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
DAVID ADKINS  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	10/28/2014	Sampling Date:	10/28/2014
Reported:	10/29/2014	Sampling Type:	Soil
Project Name:	A-4 / NERBERG SWD POLYLINE	Sampling Condition:	** (See Notes)
Project Number:	70070209201	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: S-1 (H403307-01)**

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/28/2014	ND	2.04	102	2.00	3.57	
Toluene*	<0.200	0.200	10/28/2014	ND	1.96	97.9	2.00	5.20	
Ethylbenzene*	<b>0.361</b>	0.200	10/28/2014	ND	1.88	93.8	2.00	5.49	
<b>Total Xylenes*</b>	<b>1.74</b>	0.600	10/28/2014	ND	5.53	92.2	6.00	4.72	
<b>Total BTX</b>	<b>2.10</b>	1.20	10/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2014	ND	384	96.0	400	4.08	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>118</b>	50.0	10/28/2014	ND	176	87.9	200	0.451	
<b>DRO &gt;C10-C28</b>	<b>1680</b>	50.0	10/28/2014	ND	196	98.0	200	3.25	

Surrogate: 1-Chlorooctane 89.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 125 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
DAVID ADKINS  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	10/28/2014	Sampling Date:	10/28/2014
Reported:	10/29/2014	Sampling Type:	Soil
Project Name:	A-4 / NERBERG SWD POLYLINE	Sampling Condition:	** (See Notes)
Project Number:	70070209201	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: S-2 (H403307-02)**

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	10/28/2014	ND	2.04	102	2.00	3.57	
Toluene*	<0.050	0.050	10/28/2014	ND	1.96	97.9	2.00	5.20	
Ethylbenzene*	<0.050	0.050	10/28/2014	ND	1.88	93.8	2.00	5.49	
Total Xylenes*	<0.150	0.150	10/28/2014	ND	5.53	92.2	6.00	4.72	
Total BTX	<0.300	0.300	10/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	10/28/2014	ND	384	96.0	400	4.08	

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	10/28/2014	ND	176	87.9	200	0.451	
DRO >C10-C28	<10.0	10.0	10/28/2014	ND	196	98.0	200	3.25	

Surrogate: 1-Chlorooctane 74.7 % 47.2-157

Surrogate: 1-Chlorooctadecane 103 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
DAVID ADKINS  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	10/28/2014	Sampling Date:	10/28/2014
Reported:	10/29/2014	Sampling Type:	Soil
Project Name:	A-4 / NERBERG SWD POLYLINE	Sampling Condition:	** (See Notes)
Project Number:	70070209201	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: S-3 (H403307-03)**

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	10/28/2014	ND	2.04	102	2.00	3.57	
Toluene*	<0.050	0.050	10/28/2014	ND	1.96	97.9	2.00	5.20	
Ethylbenzene*	<0.050	0.050	10/28/2014	ND	1.88	93.8	2.00	5.49	
Total Xylenes*	<0.150	0.150	10/28/2014	ND	5.53	92.2	6.00	4.72	
Total BTX	<0.300	0.300	10/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/28/2014	ND	400	100	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	10/28/2014	ND	176	87.9	200	0.451	
DRO >C10-C28	19.0	10.0	10/28/2014	ND	196	98.0	200	3.25	

Surrogate: 1-Chlorooctane 76.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 99.9 % 52.1-176

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ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	10/28/2014	Sampling Date:	10/28/2014
Reported:	10/29/2014	Sampling Type:	Soil
Project Name:	A-4 / NERBERG SWD POLYLINE	Sampling Condition:	** (See Notes)
Project Number:	70070209201	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: S-4 (H403307-04)**

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	10/28/2014	ND	2.04	102	2.00	3.57	
Toluene*	<0.050	0.050	10/28/2014	ND	1.96	97.9	2.00	5.20	
Ethylbenzene*	<0.050	0.050	10/28/2014	ND	1.88	93.8	2.00	5.49	
Total Xylenes*	<0.150	0.150	10/28/2014	ND	5.53	92.2	6.00	4.72	
Total BTX	<0.300	0.300	10/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	10/28/2014	ND	400	100	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	10/28/2014	ND	176	87.9	200	0.451	
DRO >C10-C28	71.0	10.0	10/28/2014	ND	196	98.0	200	3.25	

Surrogate: 1-Chlorooctane 79.9 % 47.2-157

Surrogate: 1-Chlorooctadecane 93.9 % 52.1-176

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ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	10/28/2014	Sampling Date:	10/28/2014
Reported:	10/29/2014	Sampling Type:	Soil
Project Name:	A-4 / NERBERG SWD POLYLINE	Sampling Condition:	** (See Notes)
Project Number:	70070209201	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: S-5 (H403307-05)**

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	10/28/2014	ND	2.04	102	2.00	3.57	
Toluene*	<0.050	0.050	10/28/2014	ND	1.96	97.9	2.00	5.20	
Ethylbenzene*	<0.050	0.050	10/28/2014	ND	1.88	93.8	2.00	5.49	
Total Xylenes*	<0.150	0.150	10/28/2014	ND	5.53	92.2	6.00	4.72	
Total BTX	<0.300	0.300	10/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2014	ND	400	100	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	10/28/2014	ND	176	87.9	200	0.451	
DRO >C10-C28	<10.0	10.0	10/28/2014	ND	196	98.0	200	3.25	

Surrogate: 1-Chlorooctane 81.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 88.5 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
DAVID ADKINS  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	10/28/2014	Sampling Date:	10/28/2014
Reported:	10/29/2014	Sampling Type:	Soil
Project Name:	A-4 / NERBERG SWD POLYLINE	Sampling Condition:	** (See Notes)
Project Number:	70070209201	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: S-6 (H403307-06)**

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	10/28/2014	ND	2.04	102	2.00	3.57	
Toluene*	<0.050	0.050	10/28/2014	ND	1.96	97.9	2.00	5.20	
Ethylbenzene*	<0.050	0.050	10/28/2014	ND	1.88	93.8	2.00	5.49	
Total Xylenes*	<0.150	0.150	10/28/2014	ND	5.53	92.2	6.00	4.72	
Total BTX	<0.300	0.300	10/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/28/2014	ND	400	100	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	10/28/2014	ND	176	87.9	200	0.451	
DRO >C10-C28	<10.0	10.0	10/28/2014	ND	196	98.0	200	3.25	

Surrogate: 1-Chlorooctane 76.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 90.2 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
DAVID ADKINS  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	10/28/2014	Sampling Date:	10/28/2014
Reported:	10/29/2014	Sampling Type:	Soil
Project Name:	A-4 / NERBERG SWD POLYLINE	Sampling Condition:	** (See Notes)
Project Number:	70070209201	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: S-7 (H403307-07)**

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	10/28/2014	ND	2.04	102	2.00	3.57	
Toluene*	<0.200	0.200	10/28/2014	ND	1.96	97.9	2.00	5.20	
Ethylbenzene*	0.443	0.200	10/28/2014	ND	1.88	93.8	2.00	5.49	
Total Xylenes*	2.21	0.600	10/28/2014	ND	5.53	92.2	6.00	4.72	
Total BTEX	2.66	1.20	10/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/28/2014	ND	400	100	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	87.0	50.0	10/28/2014	ND	176	87.9	200	0.451	
DRO >C10-C28	1210	50.0	10/28/2014	ND	196	98.0	200	3.25	

Surrogate: 1-Chlorooctane 91.1 % 47.2-157

Surrogate: 1-Chlorooctadecane 114 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager



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DAVID ADKINS  
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ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	10/28/2014	Sampling Date:	10/28/2014
Reported:	10/29/2014	Sampling Type:	Soil
Project Name:	A-4 / NERBERG SWD POLYLINE	Sampling Condition:	** (See Notes)
Project Number:	70070209201	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: S-8 (H403307-08)**

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	10/28/2014	ND	2.04	102	2.00	3.57	
Toluene*	<0.050	0.050	10/28/2014	ND	1.96	97.9	2.00	5.20	
Ethylbenzene*	<0.050	0.050	10/28/2014	ND	1.88	93.8	2.00	5.49	
Total Xylenes*	<0.150	0.150	10/28/2014	ND	5.53	92.2	6.00	4.72	
Total BTEX	<0.300	0.300	10/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2014	ND	400	100	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	10/28/2014	ND	176	87.9	200	0.451	
DRO >C10-C28	<10.0	10.0	10/28/2014	ND	196	98.0	200	3.25	

Surrogate: 1-Chlorooctane 75.8 % 47.2-157

Surrogate: 1-Chlorooctadecane 88.1 % 52.1-176

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
DAVID ADKINS  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received:	10/28/2014	Sampling Date:	10/28/2014
Reported:	10/29/2014	Sampling Type:	Soil
Project Name:	A-4 / NERBERG SWD POLYLINE	Sampling Condition:	** (See Notes)
Project Number:	70070209201	Sample Received By:	Celey D. Keene
Project Location:	NOT GIVEN		

**Sample ID: S-9 (H403307-09)**

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	10/28/2014	ND	2.04	102	2.00	3.57	
Toluene*	<0.050	0.050	10/28/2014	ND	1.96	97.9	2.00	5.20	
Ethylbenzene*	<0.050	0.050	10/28/2014	ND	1.88	93.8	2.00	5.49	
Total Xylenes*	<0.150	0.150	10/28/2014	ND	5.53	92.2	6.00	4.72	
Total BTX	<0.300	0.300	10/28/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 61-154

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/28/2014	ND	400	100	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	10/28/2014	ND	176	87.9	200	0.451	
DRO >C10-C28	<10.0	10.0	10/28/2014	ND	196	98.0	200	3.25	

Surrogate: 1-Chlorooctane 79.3 % 47.2-157

Surrogate: 1-Chlorooctadecane 91.2 % 52.1-176

Cardinal Laboratories

\*=Accredited Analyte

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



Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: D. Atkins		Company: Talon/LPE					
Address: 408 W. Texas Ave.		Attn:					
City: Artesia		Address:					
Phone #: 575-746-8768		City:					
Fax #: 575-746-8905		State:					
Project #: 700702, 09201		Zip:					
Project Name: A-4 verberg 6" Poly line strike		Phone #:					
Project Location:		Fax #:					
Sampler Name: S. Hitchcock		PRESERV		SAMPLING			
FOR LAB USE ONLY							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	
1	5-1	G-1	1	GROUNDWATER	10/28/14	11:12	TPH
2	5-2	G-1	1	WASTEWATER		11:13	BTEX
3	5-3	G-1	1	SOIL		11:14	Chlorides
4	5-4	G-1	1	OIL		11:15	
5	5-5	G-1	1	SLUDGE		11:16	
6	5-6	G-1	1	OTHER :		11:17	
7	5-7	G-1	1	ACID/BASE:		11:18	
8	5-8	G-1	1	ICE / COOL		11:19	
9	5-9	G-1	1	OTHER :		11:20	
Relinquished By: <i>S. Hitchcock</i>		Date: <i>10/28/14</i>		Received By: <i>S. Hitchcock</i>		Date: <i>10/28/14</i>	
Relinquished By: <i>S. Hitchcock</i>		Time: <i>11:20</i>		Received By: <i>S. Hitchcock</i>		Time: <i>11:20</i>	
Delivered By: (Circle One) <i>UPS</i>		Sample Condition		CHECKED BY: <i>RU5H</i>		REMARKS: <i>Samples just taken &amp; brought to lab. OK</i>	
Sampler - UPS - Bus - Other:		Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/>		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	
		No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>		Add'l Phone #:		Add'l Fax #:	