

## Bratcher, Mike, EMNRD

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**From:** Michael Stubblefield [mstubblefield@talonlpe.com]  
**Sent:** Friday, December 23, 2011 10:02 AM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** dusty\_wilson@oxy.com  
**Subject:** FW: MIDWEST FEDERAL L NO 5 RELEASE  
**Attachments:** H102745 TALON.pdf

Dear Mr. Mike Bratcher,

Talon/LPE is sending you the analytical results for the soil samples collected on 12/19/2011 from the Occidental Petroleum Company Midwest L No. 5 release.

Based on the analytical results Occidental Petroleum Company is requesting approval to backfill the excavated area using new soil transported to the location. If further information is requested please contact me at 575-441-7254.

Mike Stubblefield  
Project Manager  
Talon/LPE  
408 West Texas Avenue  
Artesia, New Mexico 88210  
(575) 746.8768 phone  
(575) 746.8905 fax  
(575) 441.7254 cell



Better Business Bureau Torch Award for Marketplace Ethics: 2010 Winner, 2009 Finalist  
Staples Foundation for Learning Hall of Fame Recipient: 2010  
ICIC and Business Week- Top 100: 2010, 2009, 2008, 2007, 2006

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**From:** Celey Keene [mailto:[celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)]  
**Sent:** Thursday, December 22, 2011 3:27 PM  
**To:** Michael Stubblefield  
**Cc:** David Adkins  
**Subject:** MIDWEST FEDERAL L NO 5 RELEASE

THANK YOU,

**Celey Keene**  
**Lab Director**  
**Cardinal Laboratories**  
101 East Marland  
Hobbs, NM 88240  
T: (575) 393-2326  
F: (575) 393-2476  
e-mail: [celey.keene@cardinallabsnm.com](mailto:celey.keene@cardinallabsnm.com)

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

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December 22, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MIDWEST FEDERAL L NO. 5 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 12/20/11 14:32.

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](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,

A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	12/20/2011	Sampling Date:	12/19/2011
Reported:	12/22/2011	Sampling Type:	Soil
Project Name:	MIDWEST FEDERAL L NO. 5 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700608.019.01	Sample Received By:	Jodi Henson
Project Location:	SEC.34.T22S.R26E		

**Sample ID: S-1 SOUTHSIDE WALL (H102745-01)**

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	12/21/2011	ND	2.15	108	2.00	5.54		
Toluene*	<0.050	0.050	12/21/2011	ND	2.09	104	2.00	6.44		
Ethylbenzene*	<0.050	0.050	12/21/2011	ND	2.40	120	2.00	7.08		
Total Xylenes*	<0.150	0.150	12/21/2011	ND	6.92	115	6.00	7.04		

Surrogate: 4-Bromofluorobenzene (PII) 109 % 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	<16.0	16.0	12/21/2011	ND	448	112	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	12/21/2011	ND	228	114	200	3.85		
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	234	117	200	4.15		

Surrogate: 1-Chlorooctane 102 % 55.5-154

Surrogate: 1-Chlorooctadecane 110 % 57.6-158

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	12/20/2011	Sampling Date:	12/19/2011
Reported:	12/22/2011	Sampling Type:	Soil
Project Name:	MIDWEST FEDERAL L NO. 5 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700608.019.01	Sample Received By:	Jodi Henson
Project Location:	SEC.34.T22S.R26E		

**Sample ID: S-2 WESTSIDE WALL (H102745-02)**

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	12/21/2011	ND	2.15	108	2.00	5.54		
Toluene*	<0.050	0.050	12/21/2011	ND	2.09	104	2.00	6.44		
Ethylbenzene*	<0.050	0.050	12/21/2011	ND	2.40	120	2.00	7.08		
Total Xylenes*	<0.150	0.150	12/21/2011	ND	6.92	115	6.00	7.04		

*Surrogate: 4-Bromofluorobenzene (PIL) 108 % 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	
<b>Chloride</b>	<b>32.0</b>	16.0	12/21/2011	ND	448	112	400	0.00		

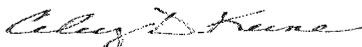
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/21/2011	ND	228	114	200	3.85		
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	234	117	200	4.15		

*Surrogate: 1-Chlorooctane 92.3 % 55.5-154*
*Surrogate: 1-Chlorooctadecane 100 % 57.6-158*

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	12/20/2011	Sampling Date:	12/19/2011
Reported:	12/22/2011	Sampling Type:	Soil
Project Name:	MIDWEST FEDERAL L NO. 5 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700608.019.01	Sample Received By:	Jodi Henson
Project Location:	SEC.34.T22S.R26E		

**Sample ID: S-3 EASTSIDE WALL (H102745-03)**

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	12/21/2011	ND	2.15	108	2.00	5.54		
Toluene*	<0.050	0.050	12/21/2011	ND	2.09	104	2.00	6.44		
Ethylbenzene*	<0.050	0.050	12/21/2011	ND	2.40	120	2.00	7.08		
Total Xylenes*	<0.150	0.150	12/21/2011	ND	6.92	115	6.00	7.04		

*Surrogate: 4-Bromofluorobenzene (PII)* 109 % 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	<16.0	16.0	12/21/2011	ND	448	112	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	12/21/2011	ND	228	114	200	3.85		
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	234	117	200	4.15		

*Surrogate: 1-Chlorooctane* 99.8 % 55.5-154

*Surrogate: 1-Chlorooctadecane* 109 % 57.6-158

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	12/20/2011	Sampling Date:	12/19/2011
Reported:	12/22/2011	Sampling Type:	Soil
Project Name:	MIDWEST FEDERAL L NO. 5 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700608.019.01	Sample Received By:	Jodi Henson
Project Location:	SEC.34.T22S.R26E		

**Sample ID: S-4 NORTHSIDE WALL (H102745-04)**

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	12/21/2011	ND	2.15	108	2.00	5.54		
Toluene*	<0.050	0.050	12/21/2011	ND	2.09	104	2.00	6.44		
Ethylbenzene*	<0.050	0.050	12/21/2011	ND	2.40	120	2.00	7.08		
Total Xylenes*	<0.150	0.150	12/21/2011	ND	6.92	115	6.00	7.04		

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 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	
<b>Chloride</b>	<b>48.0</b>	16.0	12/21/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRD C6-C10	<50.0	50.0	12/21/2011	ND	228	114	200	3.85		
<b>DRO &gt;C10-C28</b>	<b>360</b>	50.0	12/21/2011	ND	234	117	200	4.15		

Surrogate: 1-Chlorooctane 105 % 55.5-154

Surrogate: 1-Chlorooctadecane 128 % 57.6-158

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	12/20/2011	Sampling Date:	12/19/2011
Reported:	12/22/2011	Sampling Type:	Soil
Project Name:	MIDWEST FEDERAL L NO. 5 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700608.019.01	Sample Received By:	Jodi Henson
Project Location:	SEC.34.T22S.R26E		

**Sample ID: S-5 BOTTOM 4' BGS (H102745-05)**

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	12/21/2011	ND	2.15	108	2.00	5.54		
<b>Toluene*</b>	<b>0.342</b>	0.050	12/21/2011	ND	2.09	104	2.00	6.44		
<b>Ethylbenzene*</b>	<b>1.11</b>	0.050	12/21/2011	ND	2.40	120	2.00	7.08		
<b>Total Xylenes*</b>	<b>2.22</b>	0.150	12/21/2011	ND	6.92	115	6.00	7.04		

Surrogate: 4-Bromofluorobenzene (PIL) 185 % 64.4-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>176</b>	16.0	12/21/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>306</b>	50.0	12/21/2011	ND	228	114	200	3.85		
<b>DRO &gt;C10-C28</b>	<b>4470</b>	50.0	12/21/2011	ND	234	117	200	4.15		

Surrogate: 1-Chlorooctane 130 % 55.5-154

Surrogate: 1-Chlorooctadecane 187 % 57.6-158

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	12/20/2011	Sampling Date:	12/19/2011
Reported:	12/22/2011	Sampling Type:	Soil
Project Name:	MIDWEST FEDERAL L NO. 5 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700608.019.01	Sample Received By:	Jodi Henson
Project Location:	SEC.34.T22S.R26E		

**Sample ID: S-6 SOUTHSIDE WALL (H102745-06)**

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	12/21/2011	ND	2.15	108	2.00	5.54		
Toluene*	<0.050	0.050	12/21/2011	ND	2.09	104	2.00	6.44		
Ethylbenzene*	<0.050	0.050	12/21/2011	ND	2.40	120	2.00	7.08		
Total Xylenes*	<0.150	0.150	12/21/2011	ND	6.92	115	6.00	7.04		

Surrogate: 4-Bromofluorobenzene (PIL) 111 % 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	64.0	16.0	12/21/2011	ND	432	108	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	12/21/2011	ND	228	114	200	3.85		
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	234	117	200	4.15		

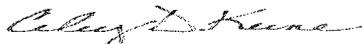
Surrogate: 1-Chlorooctane 110 % 55.5-154

Surrogate: 1-Chlorooctadecane 122 % 57.6-158

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	12/20/2011	Sampling Date:	12/19/2011
Reported:	12/22/2011	Sampling Type:	Soil
Project Name:	MIDWEST FEDERAL L NO. 5 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700608.019.01	Sample Received By:	Jodi Henson
Project Location:	SEC.34.T22S.R26E		

**Sample ID: S-7 EASTSIDE WALL (H102745-07)**

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	12/21/2011	ND	2.15	108	2.00	5.54		
Toluene*	<0.050	0.050	12/21/2011	ND	2.09	104	2.00	6.44		
Ethylbenzene*	<0.050	0.050	12/21/2011	ND	2.40	120	2.00	7.08		
Total Xylenes*	<0.150	0.150	12/21/2011	ND	6.92	115	6.00	7.04		

*Surrogate: 4-Bromofluorobenzene (PIL) 109 % 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	
<b>Chloride</b>	<b>288</b>	16.0	12/21/2011	ND	432	108	400	0.00		

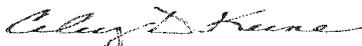
TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	12/21/2011	ND	228	114	200	3.85		
DRO >C10-C28	<10.0	10.0	12/21/2011	ND	234	117	200	4.15		

*Surrogate: 1-Chlorooctane 85.5 % 55.5-154*
*Surrogate: 1-Chlorooctadecane 87.8 % 57.6-158*

Cardinal Laboratories

\*=Accredited Analyte

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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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\*=Accredited Analyte

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---

Celey D. Keene, Lab Director/Quality Manager



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: <b>Talon/LPE</b>		<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																				
Project Manager: <b>Mike Stubblefield</b>		P.O. #:																								
Address: <b>408 West Texas Ave.</b>		Company: <b>Talon/LPE</b>																								
City: <b>Artesia</b> State: <b>NM</b> Zip: <b>88210</b>		Attn:																								
Phone #: <b>575-441-7254</b> Fax #:		Address:																								
Project #: <b>700608.019.01</b> Project Owner: <b>OXY USA Inc.</b>		City:																								
Project Name: <b>Midwest Federal L No.5 release</b>		State: Zip:																								
Project Location: <b>sec. 34. T22S. R26E</b>		Phone #:																								
Sampler Name: <b>Mike Stubblefield</b>		Fax #:																								
FOR LAB USE ONLY				MATRIX		PRESERV.		SAMPLING																		
Lab I.D.	Sample I.D.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	8015 M TPH	8021 G BTEX	Total chlorides										
<b>H102745</b>																										
1	S-1 Southside wall	G			✓				✓			12/19/11	10:49A	✓	✓	✓										
2	S-2 Westside wall	G			✓				✓			12/19/11	10:54A	✓	✓	✓										
3	S-3 Eastside wall	G			✓				✓			12/19/11	11:01A	✓	✓	✓										
4	S-4 North side wall	G			✓				✓			12/19/11	11:06A	✓	✓	✓										
5	S-5 Bottom 4' bgs	G			✓				✓			12/19/11	11:14A	✓	✓	✓										
6	S-6 Southside wall	G			✓				✓			12/19/11	11:31A	✓	✓	✓										
7	S-7 Eastside wall	G			✓				✓			12/19/11	11:42A	✓	✓	✓										

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 the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <b>Mike Stubblefield</b>	Date: <b>12/20/2011</b>	Received By: <b>Kimberly M. Wilcox</b>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <b>4:00 am</b>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <b>Kimberly M. Wilcox</b>	Date: <b>12/20/11</b>	Received By: <b>Alexo M. Landge</b>	REMARKS:	
	Time: <b>10:38 am</b>			
Delivered By: (Circle One)	Sample Condition:	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other:	Cool / Intact			
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476