



Contaminated Soil (RCRA Exempt)

Permian Basin

Customer:

Frontier Field Services

Customer #: CRI2900

Ordered by: JESSE CUETO

AFE #:

PO #:

Manifest #: 66939

Manif. Date: 6/22/2015

Hauler: Driver

C&A **CLAUDIO**

Truck # Card #

Job Ref #

Ticket #:

700-703076

Bid #: Date:

Walk-in Bid 6/22/2015

Frontier Field Services LLC Generator:

Generator #:

Well Ser. #: 999908

Well Name: 10" CEDAR BRECK

Well #:

Field: Field #:

Rig:

NON-DRILLING

County

Facility: CRI

Product / Service

Quantity Units

20.00 yards

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

MSDS Information _ RCRA Hazardous Waste Analysis

Process Knowledge _ Other (Provide description above)

Driver/Agent Signature R360 Representative Signature

Gustomer Approval

THIS IS NOT AN INVOICE!

Date: 6-23-15

6/22/2015 12:23:58PM





August 18, 2015

HARLEY EVERHART
FRONTIER FIELD SERVICES
4200 SKELLY DRIVE, SUITE 700
TULSA, OK 74135

RE: CEDAR BREAK LATERAL 10"

Enclosed are the results of analyses for samples received by the laboratory on 08/12/15 11:00.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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



FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 08/12/2015 Sampling Date: 08/12/2015

Reported: 08/18/2015 Sampling Type: Soil

Project Name: CEDAR BREAK LATERAL 10" Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: CEDAR BREAK

Sample ID: CBL #1 - NE WALL (H502098-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2015	ND	2.25	113	2.00	0.0430	
Toluene*	< 0.050	0.050	08/14/2015	ND	2.15	107	2.00	0.127	
Ethylbenzene*	< 0.050	0.050	08/14/2015	ND	2.34	117	2.00	0.668	
Total Xylenes*	<0.150	0.150	08/14/2015	ND	6.57	110	6.00	0.479	
Total BTEX	<0.300	0.300	08/14/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	85.6-13	7						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/13/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/13/2015	ND	182	91.2	200	0.0636	
DRO >C10-C28	<10.0	10.0	08/13/2015	ND	194	97.2	200	0.823	
Surrogate: 1-Chlorooctane	77.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	85.8	% 52.1-17	6						

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 08/12/2015 Sampling Date: 08/12/2015

Reported: 08/18/2015 Sampling Type: Soil

Project Name: CEDAR BREAK LATERAL 10" Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: CEDAR BREAK

Sample ID: CBL #2 - SE WALL (H502098-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2015	ND	2.25	113	2.00	0.0430	
Toluene*	<0.050	0.050	08/14/2015	ND	2.15	107	2.00	0.127	
Ethylbenzene*	<0.050	0.050	08/14/2015	ND	2.34	117	2.00	0.668	
Total Xylenes*	<0.150	0.150	08/14/2015	ND	6.57	110	6.00	0.479	
Total BTEX	<0.300	0.300	08/14/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	% 85.6-13	7						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/13/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/13/2015	ND	182	91.2	200	0.0636	
DRO >C10-C28	<10.0	10.0	08/13/2015	ND	194	97.2	200	0.823	
Surrogate: 1-Chlorooctane	74.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	82.4	% 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 08/12/2015 Sampling Date: 08/12/2015

Reported: 08/18/2015 Sampling Type: Soil

Project Name: CEDAR BREAK LATERAL 10" Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: CEDAR BREAK

Sample ID: CBL #3 - S FLOOR (H502098-03)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/14/2015	ND	2.25	113	2.00	0.0430	
Toluene*	<0.050	0.050	08/14/2015	ND	2.15	107	2.00	0.127	
Ethylbenzene*	<0.050	0.050	08/14/2015	ND	2.34	117	2.00	0.668	
Total Xylenes*	<0.150	0.150	08/14/2015	ND	6.57	110	6.00	0.479	
Total BTEX	<0.300	0.300	08/14/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 85.6-13	7						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/13/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/13/2015	ND	182	91.2	200	0.0636	
DRO >C10-C28	<10.0	10.0	08/13/2015	ND	194	97.2	200	0.823	
Surrogate: 1-Chlorooctane	79.1	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	82.0	% 52 1-17	6						

Surrogate: 1-Chlorooctadecane 82.0 % 52.1-176

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FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 08/12/2015 Sampling Date: 08/12/2015

Reported: 08/18/2015 Sampling Type: Soil

Project Name: CEDAR BREAK LATERAL 10" Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: CEDAR BREAK

Sample ID: CBL #4 - N FLOOR (H502098-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2015	ND	2.23	112	2.00	1.51	
Toluene*	<0.050	0.050	08/15/2015	ND	2.12	106	2.00	2.75	
Ethylbenzene*	<0.050	0.050	08/15/2015	ND	2.33	116	2.00	2.48	
Total Xylenes*	<0.150	0.150	08/15/2015	ND	6.49	108	6.00	2.28	
Total BTEX	<0.300	0.300	08/15/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	6 85.6-13	7						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/13/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/13/2015	ND	182	91.2	200	0.0636	
DRO >C10-C28	<10.0	10.0	08/13/2015	ND	194	97.2	200	0.823	
Surrogate: 1-Chlorooctane	72.0 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	79.3 9	% 52.1-17	6						

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FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 08/12/2015 Sampling Date: 08/12/2015

Reported: 08/18/2015 Sampling Type: Soil

Project Name: CEDAR BREAK LATERAL 10" Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: CEDAR BREAK

Sample ID: CBL #5 - SW WALL (H502098-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2015	ND	2.23	112	2.00	1.51	
Toluene*	<0.050	0.050	08/15/2015	ND	2.12	106	2.00	2.75	
Ethylbenzene*	<0.050	0.050	08/15/2015	ND	2.33	116	2.00	2.48	
Total Xylenes*	<0.150	0.150	08/15/2015	ND	6.49	108	6.00	2.28	
Total BTEX	<0.300	0.300	08/15/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	% 85.6-13	7						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/13/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/13/2015	ND	182	91.2	200	0.0636	
DRO >C10-C28	42.4	10.0	08/13/2015	ND	194	97.2	200	0.823	
Surrogate: 1-Chlorooctane	76.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	85.7	% 52.1-17	6						

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FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 08/12/2015 Sampling Date: 08/12/2015

Reported: 08/18/2015 Sampling Type: Soil

Project Name: CEDAR BREAK LATERAL 10" Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: CEDAR BREAK

Sample ID: CBL #6 - NW WALL (H502098-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/15/2015	ND	2.23	112	2.00	1.51	
Toluene*	<0.050	0.050	08/15/2015	ND	2.12	106	2.00	2.75	
Ethylbenzene*	< 0.050	0.050	08/15/2015	ND	2.33	116	2.00	2.48	
Total Xylenes*	<0.150	0.150	08/15/2015	ND	6.49	108	6.00	2.28	
Total BTEX	<0.300	0.300	08/15/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	% 85.6-13	7						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/13/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/13/2015	ND	182	91.2	200	0.0636	
DRO >C10-C28	159	10.0	08/13/2015	ND	194	97.2	200	0.823	
Surrogate: 1-Chlorooctane	78.8	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	85.0	% 52.1-17	6						

Surrogate: 1-Chlorooctadecane 85.0 % 52.1-176

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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.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Maine. Frontic Field Services	Aka Emusy)	BILL TO	ANALYSIS REQUEST
	111	P.O. #:	
Address: 30/3 10\		Company:	
City: Malanar State: NM Zip:		Attn:	
Phone #: 525 5/3 492 1 Fax #:		Address:	
Project #: Project Owner:		City:	
Project Name: Cedor Break hetero 1 10"		State: Zip:	
Project Location: Product Sect		Phone #:	
Sampler Name: West Trackert		Fax #:	
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	,
lah ID Sample ID	WATER		de s
150209	# CONT GROUN WASTE SOIL OIL SLUDG	OTHER ACID/B/ ICE / CC OTHER DATE TIME	TP BTS Chi
1 CBL # 1 - NE Wall	K	ਲ	* *
2 CBL #2 - 58 Wall	6	Y \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	* *
3 COL #3 . S Floor	ر ا	V 68: 65	x x
4 CBL #4 - N Floor	~	(080	* * *
	8	2 1 08:10	× × ×
6 CBL #6-NW Wall	*	b 8.15.15 08: 13	* 4
PLEASE NOTE: Liability and Damages. Cardinal's liability and cleru'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 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 30 days after completion of the applicable service. In one event that if Cardinal he liable for ignore and are received by Cardinal within 30 days after completion of the applicable.	edy for any claim arising whether based in contract or shall be deemed waived unless made in writing and re-	ract or tort, shall be limited to the amount paid by the client to and received by Cardinal within 30 days after completion of t	the applicable

Relinquished By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Time: 1.80 Sample Condition
Cool Intact
Yes Pres Phone Result: Fax Result: REMARKS: ☐ Yes ☐ No Add'l Phone #:





October 19, 2015

HARLEY EVERHART
FRONTIER FIELD SERVICES
4200 SKELLY DRIVE, SUITE 700
TULSA, OK 74135

RE: CEDAR BREAK 12" LATERAL

Enclosed are the results of analyses for samples received by the laboratory on 10/15/15 11:14.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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)

Celey D. Keine

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



FRONTIER FIELD SERVICES HARLEY EVERHART 4200 SKELLY DRIVE, SUITE 700 TULSA OK, 74135

Fax To: (575) 676-2401

Received: 10/15/2015 Sampling Date: 10/15/2015

Reported: 10/19/2015 Sampling Type: Soil

Project Name: CEDAR BREAK 12" LATERAL Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Judy Garcia

Project Location: CEDAR BREAK 12" LATERAL

Sample ID: #7- CEDAR BREAK (SW WALL) (H502697-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/15/2015	ND	1.81	90.3	2.00	0.905	
Toluene*	<0.050	0.050	10/15/2015	ND	1.93	96.5	2.00	1.98	
Ethylbenzene*	<0.050	0.050	10/15/2015	ND	1.72	86.1	2.00	0.174	
Total Xylenes*	<0.150	0.150	10/15/2015	ND	5.59	93.2	6.00	1.20	
Total BTEX	<0.300	0.300	10/15/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 %	85.6-13	7						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/16/2015	ND	416	104	400	7.41	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/16/2015	ND	193	96.4	200	5.03	
DRO >C10-C28	<10.0	10.0	10/16/2015	ND	205	102	200	4.87	
Surrogate: 1-Chlorooctane	93.6	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	98.5	% 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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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.

*** 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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(5	(575) 393-2326 FAX (575) 393-2476			•				mir				BILL	L 70		П		≥	ANALYSIS	ا≾ا	S	اقا	REQUEST	TS	4 1		1	1	
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FOR LAB USE ONLY		P.				MAIKIX			_	- 2	- NEOLINA	- 3				9												
Lab I.D.	Sample I.D.	(G)RAB OR (C)ON	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE TIME	TPH	BTEX	Chlorid												
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Sampler - UPS - Bus - Other: # 7

Delivered By: (Circle One)

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business is

Relinquished By

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Time:

Received By:

unless made in writing and received by Cardinal within 30 days after completion of the applicable on, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

Phone Result:
Fax Result:
REMARKS:

☐ Yes

No No

Add'l Phone #: Add'l Fax #:

tort, shall be limited to the amount paid by the client for the

Received By:

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10

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[†] Cardinal cannot accept verbal changes. Please fax written changes to (575) 393/2326

