STATE OF COLOR

Dedicated to protecting and improving the health and environment of the people of Colorado

4300 Cherry Creek Dr. S. Denver, Colorado 80246-1530 Phone (303) 692-2000 TDD Line (303) 691-7700 Located in Glendale, Colorado

http://www.cdphe.state.co.us

Laboratory Services Division 8100 Lowry Blvd. Denver, Colorado 80230-6928 (303) 692-3090

RECEIVED

Colorado Department of Public Health

MAY 0 7 2012

and Environment

WATER QUALITY CONTROL DIVISION

Requested by Date requested____ Date entered

DIVISION USE ONLY WQCD Division Initiated Modification

MODIFICATION APPLICATION

Please print or type all information. All items must be filled out completely and correctly. If the form is not complete, it will be returned. All modification dates are established by the Division. This form is for modifying an established permit or certification. Terminations, Change of Contacts, Transfer of Permit, and Withdrawl of Permit Application and/or modification requests must be submitted on the appropriate form:

MAIL ORIGINAL FORM WITH INK SIGNATURES TO THE FOLLOWING ADDRESS:

Colorado Dept of Public Health and Environment **Water Quality Control Division** 4300 Cherry Creek Dr South WQCD-P-B2 Denver, CO 80246-1530

FAXED or EMAILED FORMS WILL NOT BE ACCEPTED.

PART A. IDENTIFICATION OF PERMIT Please write the permit number to be modified									
PERMIT NUMBER COG 840005									
	FEE INFORMATION (application must be sign		-						
Company Name	Diamond Operating, Ive								
Mailing Address	Diamond Operating, Ive 6666 Gunpark Drive	Suit	te 200						
City	BOULDER								
Legal Contact Name	David C. Peterson	Phone Number							
Title	President	Email	dave pæ flativon energy.com						
PART C. FACILIT	Y/PROJECT INFORMATION		energy.com						
Facility/Project Name	Ward Unit								
Location (address)	SE/4 SE/4 Section 3								
City	5.5 mi, north of Lindon, Co	County	Washington						
Local Contact Name	as above	Phone Number	/						
Title		Email							

COLORADO WATER QUALITY CONTROL DIVISION MODIFICATION APPLICATION www.coloradowaterpermits.com

PART D. DESCRIPTION OF MODIFICATION REQUESTED:

#1) REQUEST ELIMINATION OF THE REQUIREMENT TO PERFORM QUARTERLY WET TESTING -

Attached is a location map and photographs from three locations down gradient from the Ward discharge point. These photographs show there is no standing water immediately down gradient from the discharge point. The first standing water from the discharge point is a seasonal stock watering pond located about .6 miles down gradient. Water from the Ward discharge as well as surface run-off from an area of roughly 700 acres flows into the stock pond. The stock pond dries up during the summer and fall months of the year.

In that there is no standing water immediately down gradient from the discharge point and that the stock pond located .6 miles down gradient includes a combination of discharge water and normal run-off from rainfall and snow melt, we are requesting the wet testing requirement be eliminated from the monitoring requirement.

#2) REQUEST REQUIREMENT FOR MONITORING OF TSS, TDS, PH, AND ALL METALS BE DECREASED TO QUARTLERLY FREQUENCY –

The water produced in association with the oil from the Ward wells originates from the Cretaceous "J" Sandstone formation at a depth of approximately 4800'. Each day we produce roughly the same amount of total fluid from the same rock formation. There is no variation in the source of the water that makes its way from the wells through the surface equipment and eventually to the Ward discharge point. There is no chance that the character of the produced water at the Ward Unit will vary to any significant degree.

Years of monthly testing for TSS, TDS, and pH has shown very little variation in the testing results. Recent metals tests, a copy of which is attached, shows all the test results fell below the reporting limit (RL).

In light of this information, we would like to request that the monitoring frequency of the testing for TSS, TDS, pH, and all the metals be uniformly decreased to a once per quarter basis.

PART E. CERTIFICATION Required Signatures

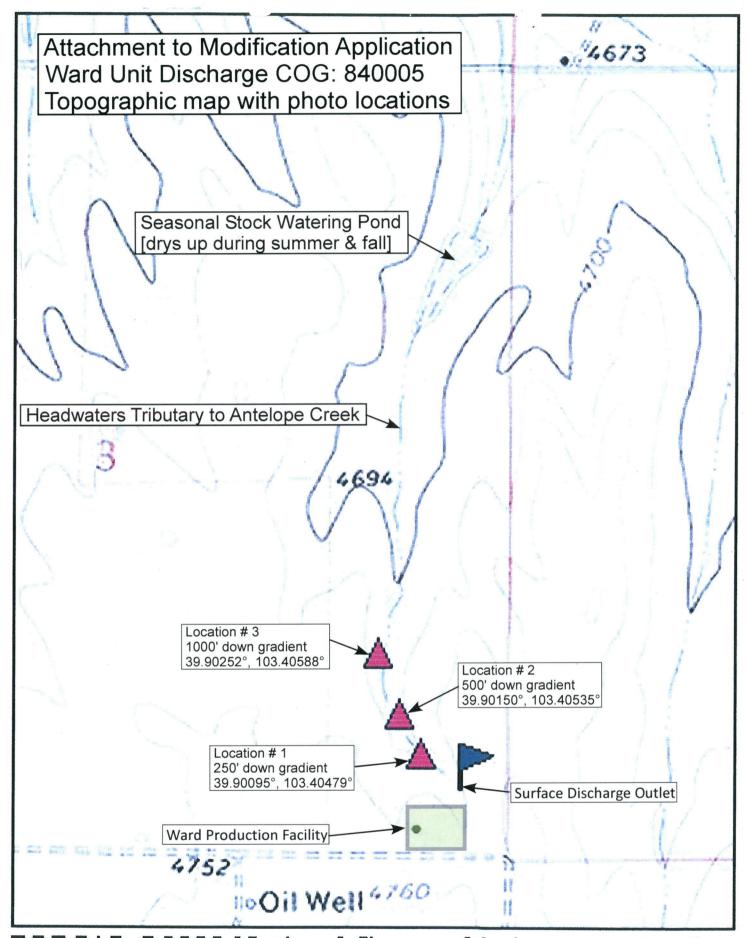
"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

"I understand that submittal of this application is for coverage under the State of Colorado Discharge Permit System until such time as the application is amended or the certification is transferred, inactivated, or expired."

Signature of Legally Responsible Party

Title

Name (printed)



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April 2012 Metals Tests





04/26/12





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Technical	Report	tor

Diamond Operating Inc.

Ward Discharge

Accutest Job Number: D33733

Sampling Date: 04/16/12

Report to:

Diamond Operating Inc. 6666 Gunpark Drive Suite 200 Boulder, CO 80301

ATTN: Dave Peterson

Total number of pages in report: 25



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Brad Madadian
Laboratory Director

Client Service contact: Renea Jackson 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW), UT (NELAP CO00049), TX (T104704511-12-1) This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

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5.4: Matrix Spike Duplicate Results Summary	



Sections:



Sample Summary

Diamond Operating Inc.

Job No:

D33733

Ward Discharge

Sample Number	Collected Date	l Time By	Received	Matr Code		Client Sample ID
D33733-1	04/16/12	18:30 RG	04/18/12	AQ	Water	WARD LEASE
D33733-1F	04/16/12	18:30 RG	04/18/12	AQ	Potentially Diss. AQ	WARD LEASE









Sample Results	
Report of Analysis	

Report of Analysis

Page 1 of 1

Client Sample ID: WARD LEASE

Lab Sample ID: D33733-1

Matrix: AQ - Water

Date Sampled: 04/16/12

Date Received: 04/18/12

Percent Solids: n/a

Project: Ward Discharge

Total Recoverable Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Arsenic	< 25	25	ug/l	1	04/18/12	04/19/12 јв	EPA 200.7 ¹	EPA 200.7 ³
Beryllium	< 10	10	ug/l	1	04/18/12	04/20/12 JB	EPA 200.7 ²	EPA 200.7 ³
Cadmium	< 10	10	ug/l	1	04/18/12	04/19/12 јв	EPA 200.7 ¹	EPA 200.7 ³
Chromium	< 10	10	ug/l	1	04/18/12	04/19/12 јв	EPA 200.7 ¹	EPA 200.7 ³
Copper	< 10	10	ug/l	1	04/18/12	04/19/12 јв	EPA 200.7 1	EPA 200.7 ³
Lead	< 50	50	ug/l	1	04/18/12	04/19/12 јв	EPA 200.7 ¹	EPA 200.7 ³
Nickel	< 30	30	ug/l	1	04/18/12	04/19/12 JB	EPA 200.7 ¹	EPA 200.7 ³
Selenium	< 50	50	ug/l	1	04/18/12	04/19/12 јв	EPA 200.7 1	EPA 200.7 ³
Zinc	< 30	30	ug/l	1	04/18/12	04/20/12 JB	EPA 200.7 ²	EPA 200.7 ³

(1) Instrument QC Batch: MA2346(2) Instrument QC Batch: MA2353(3) Prep QC Batch: MP7318

Report of Analysis

Page 1 of 1

Client Sample ID: WARD LEASE

Lab Sample ID: D33733-1

Matrix: AQ - Water

Date Sampled: 04/16/12

Date Received: 04/18/12

Percent Solids: n/a

Project: Ward Discharge

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	Ву	Method
Chromium, Hexavalent ^a Chromium, Trivalent ^b	< 0.010 < 0.020	0.010 0.020	mg/l mg/l	1 1	04/18/12 11:30 04/19/12 10:25	•	SM20 3500CR B SW846 6010/7196A M

(a) Analysis performed past the recommended method holding time as per client instructions.

(b) Calculated as: (Chromium) - (Chromium, Hexavalent)

Report of Analysis

Page 1 of 1

Client Sample ID: WARD LEASE

Lab Sample ID: Matrix:

D33733-1F

AQ - Potentially Diss. AQ

Date Sampled: 04/16/12 Date Received: 04/18/12

04/16/12

....

Percent Solids: n/a

Project:

Ward Discharge

Potentially Dissolved Metals Analysis

Analyte Result RL Units DF Prep Analyzed By Method Prep Method

Arsenic < 25 25 ug/l 1 04/18/12 04/19/12 JB EPA 200.7 1 EPA 200.7 2

(1) Instrument QC Batch: MA2346(2) Prep QC Batch: MP7318





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MISC. FORMS	
Custody Documents and Other Forms	
Includes the following where applicable:	-
 Chain of Custody 	



ACCUTEST

CHAIN OF CUSTODY

FED-EX Trucking #

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Phone # Fax #	Client PO#			City			Sto	te		- 2	Žip	-		W		1						SOL - Oth	ner Solid
Phone # Pax #	Client PO#												57	015	8	4						FB-Field EB- Equipm	Blank
363-494-4420 363-494-3771 Sampler(s) Name(s) Phone #	Project Manager			Attenti	on:			F	90#					0	2	M	0					RB- Rins	e Blank
RICK GIBSER 970-768-6885												-	6/4	1	N	1	24					16-Inp	BIOTIK
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WARD LEASE		4-16-12	6:30pm		3	2	+	H	+	++	-	+	+	+		No.		+	_	+		1	
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D33733: Chain of Custody

Page 1 of 3





Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D3373	33	Clien	t: Dimond Op	eration		Immediate Client Serv	ices Action	Required	I: No
Date / Time Received: 4/18/2	012 10 2	20:00 AM	Delive	ry Metho	d:				
Project: Ward Discharge	_		No. Co	olers:		Airbill #'s: UPS			
Cooler Security 1. Custody Seals Present: 2. Custody Seals Intact: Cooler Temperature 1. Temp cnteria achieved: 2. Cooler temp verification: 3. Cooler media:		4 Smpl D	C Present: ates/Time OK	<u>Y or</u> ☑ ☑	<u>N</u>	Sample Integrity - Documentation 1. Sample labels present on bottles: 2 Container labeling complete. 3. Sample container label / COC agree: Sample Integrity - Condition 1. Sample rec'd within HT: 2. All containers accounted for:	Y	or N	
Quality Control Preservation	<u>Y</u>		N/A_			3 Condition of sample.	!	ntact	
1. Trip Blank present / cooler: 2. Trip Blank listed on COC: 3. Samples preserved properly: 4. VOCs headspace free. Comments		0 0	Ø			Sample Integrity - Instructions 1. Analysis requested is clear: 2. Bottles received for unspecified tests 3. Sufficient volume rec'd for analysis. 4. Compositing instructions clear 5. Filtering instructions clear	Y 0 0 0		_NVA_
XCR is out of hold	**								
Accutest Laboratories V 303 425 6021				4036 F	Youngfield	i Street 854			it Ridge, CO accutest com

D33733: Chain of Custody

Page 2 of 3





Scanned 12:53:44 03/26/2014



Sample Receipt Summary - Problem Resolution

Accutest Job Number: D33733

CSR: Renea Jackson Response Date 4/18/2012

Response: Per Dave Peterson, please run and report XCR out of hold. Thank you.



Accutest Laboratories V 303 425 6021 4036 Youngfield Street F 303 425 6854

D33733: Chain of Custody

Wheat Ridge, CO www/accutest com

Page 3 of 3





Metals	Anal	vsis
TITOTECTO		,,

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: D33733 Account: DIAMOCOB - Diamond Operating Inc. Project: Ward Discharge

QC Batch ID: MP7318 Matrix Type: AQUEOUS

Methods: EPA 200.7 Units: ug/l

Prep Date:

04/18/12

Prep Date:					04/18/12
Metal	RL	IDL	MDL	MB raw	final
Aluminum	100	5.9	9.6		
Antimony	30	3.1	2.3		
Arsenic	25	5,9	4.4	1.3	<25
Barium	10	1.1	.25		
Beryllıum	10	. 44	1.3	-0.60	<10
Boron	50	4.8	1		
Cadmium	10	.27	.59	-0.10	<10
Calcium	400	9.6	5 . 4		
Chromium	10	.18	.29	0.0	<10
Cobalt	5.0	.35	.39		
Copper	10	.85	1.2	-2.0	<10
Iron	10	3.4	4.3		
Lead	50	1.6	2.5	-0.40	<50
Lithium	2.0	.28	.51		
Magnesium	200	5.8	6.5		
Manganese	5.0	.053	1.2		
Molybdenum	10	.45	2.1		
Nickel	30	. 43	2.6	0.10	<30
Phosphorus	100	11	14		
Potassium	1000	55	61		
Selenium	50	3.8	5.4	-2.9	<50
Silicon	50	3.8	3.2		
Silver	30	.18	. 4		
Sodium	400	110	8.2		
Strontium	5.0		1.2		
Thallium	10	2.9	2.9		
Tin	50	5.5	15		
Titanium	10	.11	3		
Uranium	50	1.5	2.2		
Vanadium	10	.16	. 35		
Zinc	30	.28	.5	0.60	<30

Associated samples MP7318: D33733-1, D33733-1F

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits



BLANK RESULTS SUMMARY Part 2 - Method Blanks

Login Number: D33733 Account: DIAMOCOB - Diamond Operating Inc. Project: Ward Discharge

QC Batch ID:	MP7318	Methods:	EPA 200.7
Matrix Type:	AQUEQUS	Units:	ug / 1

Prep Date:
Metal

(anr) Analyte not requested

Login Number: D33733
Account: DIAMOCOB - Diamond Operating Inc.
Project: Ward Discharge

QC Batch ID: MP7318 Matrix Type: AQUEOUS

Methods: EPA 200.7 Units: ug/l

Prep Date:

04/18/12

	D33683	-1	Spikel	ot	QC
Metal	Origina			2 % Rec	Limits
Aluminum					
Antimony					
Arsenic	128	1210	1000	108.2	70-130
Barium					
Beryllium	3.0	534	500	106.4	70-130
Boron					
Cadmium	18.7	557	500	107.7	70-130
Calcium	anr				
Chromium	5.2	523	500	103.6	70-130
Cobalt					
Copper	44.6	605	500	112.1	70-130
Iron	anr				
Lead	0.0	1010	1000	101.0	70-130
Lithium					
Magnesium	anr				
Manganese					
Molybdenum					
Nickel	65.6	551	500	97.1	70-130
Phosphorus	anr				
Potassium					
Selenium	0.0	1180	1000	118.0	70-130
Silicon					
Silver	anr				
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc	22300	22000	500	-60.0(a	70-130
Associated sa	mples MP7	318: D33	733-1, D3:	3733-1F	

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits

Login Number: D33733
Account DIAMOCOB - Diamond Operating Inc.
Project: Ward Discharge

QC Batch ID: MP7318 Matrix Type: AQUEOUS

Methods: EPA 200.7

Units: ug/l

Prep Date:

Metal

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

Login Number: D33733
Account: DIAMOCOB - Diamond Operating Inc.
Project: Ward Discharge

QC Batch ID: MP7318 Matrix Type: AQUEOUS

Methods: EPA 200.7 Units: ug/l

Prep Date:

04/18/12

rrep bate.					04/10/1	•
Metal	D33683-1 Original		Spikelot ICPALL2		MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	128	1250	1000	112.2	3.3	20
Barium						
Beryllium	3.0	543	500	108.2	1.7	20
Boron						
Cadmium	18.7	563	500	108.9	1.1	20
Calcium	anr					
Chromium	5.2	532	500	105.4	1.7	20
Cobalt						
Copper	44.6	612	500	113.5	1.2	20
Iron	anr					
Lead	0.0	1020	1000	102.0	1.0	20
Lithium						
Magnesium	anr					
Manganese						
Molybdenum						
Nickel	65.6	559	500	98.7	1.4	20
Phosphorus	anr					
Potassium						
Selenium	0.0	1200	1000	120.0	1.7	20
Silicon						
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc	22300	22600	500	60.0 (a)	2.7	20
Associated sa	mples MP73	18: D337	33-1, D337	33-1F		

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits



Login Number: D33733
Account: DIAMOCOB - Diamond Operating Inc.
Project: Ward Discharge

QC Batch ID: MP7318 Matrix Type: AQUEOUS Methods: EPA 200.7 Units: ug/l

Prep Date:

Metal

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested
(a) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D33733 Account: DIAMOCOB - Diamond Operating Inc. Project: Ward Discharge

QC Batch ID: MP7318 Matrix Type: AQUEOUS

Methods: EPA 200.7 Units: ug/l

Prep Date:

04/18/12

Prep Date:			04/18/1	2
Metal	BSP Result	Spikelot ICPALL2		QC Limits
Aluminum				
Antimony				
Arsenic	1090	1000	109.0	85-115
Barium				
Beryllium	560	500	112.0	85-115
Boron				
Cadmium	547	500	109.4	85-115
Calcium	anr			
Chromium	546	500	109.2	85-115
Cobalt				
Copper	508	500	101.6	85-115
Iron	anr			
Lead	1050	1000	105.0	85-115
Lithium				
Magnesium	anr			
Manganese				
Molybdenum				
Nickel	520	500	104.0	85-115
Phosphorus	anr			
Potassium				
Selenium	1140	1000	114.0	85-115
Silicon				
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	530	500	106.0	85-115
Associated sa	mples MP7	318: D3373	3-1, D33	733-1F
Pecults - Thi	are show	n ac gero	for calc	ulation n

Results < IDL are shown as zero for calculation purposes (*) Outside of QC limits

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: D33733
Account: DIAMOCOB - Diamond Operating Inc.
Project: Ward Discharge

QC Batch ID: Matrix Type:	Methods: EPA 200.7 Units: ug/l
Prep Date:	
Metal	

(anr) Analyte not requested





General Chemistry

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QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY GENERAL CHEMISTRY

Login Number: D33733 Account: DIAMOCOB - Diamond Operating Inc. Project: Ward Discharge

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Re cov	QC Limits
Chromium, Hexavalent	GN14579	0.010	0.0	mg/l	0.1	0.10	99.7	90-110%

Associated Samples: Batch GN14579: D33733-1 (*) Outside of QC limits

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DUPLICATE RESULTS SUMMARY GENERAL CHEMISTRY

Login Number: D33733
Account DIAMOCOB - Diamond Operating Inc.
Project: Ward Discharge

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GN14579	D33720-1F	mg/l	0.0	0.0	66.7(a)	0-20%

Associated Samples:
Batch GN14579: D33733-1
(*) Outside of QC limits
(a) RPD acceptable due to low duplicate and sample concentrations.



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MATRIX SPIKE RESULTS SUMMARY GENERAL CHEMISTRY

Login Number: D33733 Account: DIAMOCOB - Diamond Operating Inc. Project: Ward Discharge

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GN14579	D33720-1F	mg/l	0.0	0.1	0.0	0.0*(a)	85-115%

Associated Samples:
Batch GN14579: D33733-1
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Spike recovery indicates possible matrix interference.



MATRIX SPIKE DUPLICATE RESULTS SUMMARY GENERAL CHEMISTRY

Login Number: D33733
Account: DIAMOCOB - Diamond Operating Inc.
Project: Ward Discharge

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chromium, Hexavalent	GN14579	D33720-1F	mg/l	0.0	0.1	0.00400	0.0(a)	20%

Associated Samples: Batch GN14579: D33733-1

- (*) Outside of QC limits
- (N) Matrix Spike Rec. outside of QC limits
 (a) Spike recovery indicates possible matrix interference.

