# Hernandez, Alysha

From: Talvitie, Marcia

Sent: Monday, December 19, 2011 10:47 AM

To: Hernandez, Alysha

Subject: Field Well Analysis - 2011 Q4

Attachments: King I & King II Water Analysis Report 2011 Q4.pdf

Hi, Alysha

I received the attached electronic submittal of well data from the King Coal Mine. Please file in Laserfiche for Permit No. C-1981-035 – Hydrology.

Thanks,

Marcia

From: <a href="mailto:tbird@gcc.com">tbird@gcc.com</a> [mailto:tbird@gcc.com]
Sent: Monday, December 19, 2011 10:15 AM

**To:** Talvitie, Marcia

**Cc:** kpoulson@gcc.com; jjarvis@gcc.com **Subject:** Field Well Analysis - 2011 Q4

Tom Bird Manager of Coal Services GCC Energy, LLC 970.385.4528 x 6503 970.769.1160 Cell



Telephone: 970.385.4528 Facsimile: 970.385.4638 GCC Energy, LLC 6473 County Road 120 Hesperus, CO 81326

December 13, 2011

State of Colorado Division of Reclamation, Mining & Safety 1313 Sherman Street, Room 215 Denver, Colorado 80203-2273

Attn: Marcia Talvitie

Re: Field Well Water Analysis; King I & King II

4th Quarter 2011

Dear Ms. Talvitie,

Please find enclosed a copy of the King I quarterly water analysis for the Wiltze Well for the 4th quarter of 2011.

Also, please find enclosed a copy of the King II quarterly water analysis for the #1 upgradient monitoring well, the #2 down-gradient monitoring well and the #3 Hay Gulch Irrigation Ditch.

Please call Tom Bird at (970) 385-4528 x 6503 if you have any questions or comments.

Sincerely,

Tom Bird

Manager, Coal Services

GCC Energy, LLC



75 Suttle Street Durango, CO 81303 970.247.4220 Phone 970.247.4227 Fax www.greenanalytical.com

13 December 2011

Tom Bird GCC Energy, LLC 6473 CR 120 Hesperus, CO 81326

RE: Quarterly

Enclosed are the results of analyses for samples received by the laboratory on 11/30/11 14:10. If you need any further assistance, please feel free to contact me.

Sincerely,

Debbie Zufelt

Reports Manager

Deldie Zufett



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GCC Energy, LLC 6473 CR 120 Hesperus CO, 81326 Project: Quarterly
Project Name / Number: King I & King II
Project Manager: Tom Bird

Reported: 12/13/11 13:53

# ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Wiltze Well	1111123-01	Water	11/29/11 12:30	11/30/11 14:10
#1 Upgradient	1111123-02	Water	11/29/11 13:00	11/30/11 14:10
#2 Downgradient	1111123-03	Water	11/29/11 13:15	11/30/11 14:10
#3 Hay Gulch Ditch	1111123-04	Water	11/29/11 13:30	11/30/11 14:10

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GCC Energy, LLC 6473 CR 120 Hesperus CO, 81326 Project: Quarterly
Project Name / Number: King I & King II
Project Manager: Tom Bird

Reported: 12/13/11 13:53

# Wiltze Well King I

# 1111123-01 (Water)

	Reporting						
Analyte Re	sult Limit	Units	Dilution	Analyzed	Method	Notes	Analyst
Cananal Chamiatur							
General Chemistry	1707 192		Tartier		Non-company of the Company of the Co		
Alkalinity, Bicarbonate	<b>520</b> 10.0	mg/L	10	12/01/11	2320 B		ABP
Alkalinity, Carbonate	ND 10.0	mg/L	10	12/01/11	2320 B		ABP
Alkalinity, Hydroxide	ND 10.0	mg/L	10	12/01/11	2320 B		ABP
Alkalinity, Total	<b>520</b> 10.0	mg/L	10	12/01/11	2320 B		ABP
pH 7	.46	pH Units	1	11/30/11	150.1		MJV
Sulfate	800 200	mg/L	20	12/02/11	4500SO4		ABP
TDS 1	730 10.0	mg/L	1	12/01/11	160.1/2540C		ABP
Dissolved Metals by ICP							
Calcium	1.00	mg/L	1	12/05/11	200.7		JGS
Hardness 1	180 6.62	mg/L	1	12/05/11	Calc		JGS
Iron	ND 0.050	mg/L	1	12/05/11	200.7		JGS
Magnesium	1.00	mg/L	1	12/05/11	200.7		JGS
Manganese 0.	0.005	mg/L	1	12/05/11	200.7		JGS
Sodium	1.00	mg/L	1	12/05/11	200.7		JGS

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GCC Energy, LLC 6473 CR 120 Hesperus CO, 81326 Project: Quarterly
Project Name / Number: King I & King II
Project Manager: Tom Bird

Reported:

12/13/11 13:53

# #1 Upgradient King II

# 1111123-02 (Water)

		Reporting						
Analyte	Result	Limit	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry								
Alkalinity, Bicarbonate	580	10.0	mg/L	10	12/01/11	2320 B		ABP
Alkalinity, Carbonate	40.0	10.0	mg/L	10	12/01/11	2320 B		ABP
Alkalinity, Hydroxide	ND	10.0	mg/L	10	12/01/11	2320 B		ABP
Alkalinity, Total	620	10.0	mg/L	10	12/01/11	2320 B		ABP
pН	9.03		pH Units	1	11/30/11	150.1		MJV
Sulfate	27.0	10.0	mg/L	1	12/02/11	4500SO4		ABP
TDS	460	10.0	mg/L	1	12/01/11	160.1/2540C		ABP
Dissolved Metals by ICP								
Calcium	8.63	1.00	mg/L	1	12/05/11	200.7		JGS
Hardness	292	6.62	mg/L	1	12/05/11	Calc		JGS
Iron	ND	0.050	mg/L	1	12/05/11	200.7		JGS
Magnesium	65.7	1.00	mg/L	1	12/05/11	200.7		JGS
Manganese	0.019	0.005	mg/L	1	12/05/11	200.7		JGS
Sodium	138	1.00	mg/L	1	12/05/11	200.7		JGS

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GCC Energy, LLC 6473 CR 120 Hesperus CO, 81326 Project: Quarterly
Project Name / Number: King I & King II
Project Manager: Tom Bird

Reported: 12/13/11 13:53

# #2 Downgradient King II

# 1111123-03 (Water)

Alkalinity, Hydroxide  ND  10.0 mg/L  2 12/01/11 2320 B  ABP  Alkalinity, Total  316  10.0 mg/L  2 12/01/11 2320 B  ABP  PH  8.01  pH Units  1 11/30/11 150.1  MJV  Sulfate  100  20.0 mg/L  2 12/02/11 4500SO4  ABP  TDS  335  10.0 mg/L  1 12/01/11 160.1/2540C  ABP  Dissolved Metals by ICP  Calcium  68.4  1.00 mg/L  1 12/05/11 200.7  JGS  Hardness  407  6.62 mg/L  1 12/05/11 200.7  JGS  Iron  ND  0.050 mg/L  1 12/05/11 200.7  JGS  Magnesium  57.4  1.00 mg/L  1 12/05/11 200.7  JGS  Magnesium  57.4  1.00 mg/L  1 12/05/11 200.7  JGS  Magnesium  1 12/05/11 200.7  JGS			Reporting	32 (					
Alkalinity, Bicarbonate         312         10.0         mg/L         2         12/01/11         2320 B         ABP           Alkalinity, Carbonate         ND         10.0         mg/L         2         12/01/11         2320 B         ABP           Alkalinity, Hydroxide         ND         10.0         mg/L         2         12/01/11         2320 B         ABP           Alkalinity, Total         316         10.0         mg/L         2         12/01/11         2320 B         ABP           Alkalinity, Total         8.01         pH Units         1         11/30/11         150.1         MJV           Sulfate         100         20.0         mg/L         2         12/02/11         45008O4         ABP           TDS         335         10.0         mg/L         1         12/05/11         160.1/2540C         ABP           Dissolved Metals by ICP           Calcium         68.4         1.00         mg/L         1         12/05/11         200.7         JGS           Hardness         407         6.62         mg/L         1         12/05/11         200.7         JGS           Magnesium         57.4         1.00         mg/L         1         12	Analyte	Result	Limit	Units	Dilution	Analyzed	Method	Notes	Analyst
Alkalinity, Bicarbonate         312         10.0         mg/L         2         12/01/11         2320 B         ABP           Alkalinity, Carbonate         ND         10.0         mg/L         2         12/01/11         2320 B         ABP           Alkalinity, Hydroxide         ND         10.0         mg/L         2         12/01/11         2320 B         ABP           Alkalinity, Total         316         10.0         mg/L         2         12/01/11         2320 B         ABP           Alkalinity, Total         8.01         pH Units         1         11/30/11         150.1         MJV           Sulfate         100         20.0         mg/L         2         12/02/11         45008O4         ABP           TDS         335         10.0         mg/L         1         12/05/11         160.1/2540C         ABP           Dissolved Metals by ICP           Calcium         68.4         1.00         mg/L         1         12/05/11         200.7         JGS           Hardness         407         6.62         mg/L         1         12/05/11         200.7         JGS           Magnesium         57.4         1.00         mg/L         1         12	Canaval Chamiatur								
Alkalinity, Carbonate  ND  10.0 mg/L  2 12/01/11 2320 B  ABP  Alkalinity, Hydroxide  ND  10.0 mg/L  2 12/01/11 2320 B  ABP  Alkalinity, Total  316  10.0 mg/L  2 12/01/11 2320 B  ABP  ABP  ABP  ABP  ABP  ABP  ABP  BUTIS  1 11/30/11 150.1 MJV  BUTIS  BUTIS  1 100 mg/L  2 12/02/11 45008O4  ABP  BUTIS  BUT									
Alkalinity, Hydroxide  ND  10.0 mg/L  2 12/01/11 2320 B  ABP  Alkalinity, Total  316  10.0 mg/L  2 12/01/11 2320 B  ABP  PH  B.01  PH Units  1 11/30/11 150.1  MJV  Sulfate  100  20.0 mg/L  2 12/02/11 4500SO4  ABP  TDS  335  10.0 mg/L  1 12/01/11 160.1/2540C  ABP  Dissolved Metals by ICP  Calcium  68.4  1.00 mg/L  1 12/05/11 200.7  JGS  Hardness  407  6.62 mg/L  1 12/05/11 200.7  JGS  Iron  ND  0.050 mg/L  1 12/05/11 200.7  JGS  Magnesium  57.4  1.00 mg/L  1 12/05/11 200.7  JGS  Magnesium  ABP  1 12/05/11 200.7  JGS  Magnesium  1 12/05/11 200.7  JGS	Alkalinity, Bicarbonate	312	10.0	mg/L	2	12/01/11	2320 B		ABP
Alkalinity, Total         316         10.0         mg/L         2         12/01/11         2320 B         ABP           pH         8.01         pH Units         1         11/30/11         150.1         MJV           Sulfate         100         20.0         mg/L         2         12/02/11         4500SO4         ABP           IDS         335         10.0         mg/L         1         12/01/11         160.1/2540C         ABP           Dissolved Metals by ICP         Calcium         68.4         1.00         mg/L         1         12/05/11         200.7         JGS           Hardness         407         6.62         mg/L         1         12/05/11         200.7         JGS           Iron         ND         0.050         mg/L         1         12/05/11         200.7         JGS           Magnesium         57.4         1.00         mg/L         1         12/05/11         200.7         JGS           Manganese         0.005         0.005         mg/L         1         12/05/11         200.7         JGS	Alkalinity, Carbonate	ND	10.0	mg/L	2	12/01/11	2320 B		ABP
PH	Alkalinity, Hydroxide	ND	10.0	mg/L	2	12/01/11	2320 B		ABP
Sulfate   100   20.0   mg/L   2   12/02/11   4500SO4   ABP     PDS   335   10.0   mg/L   1   12/01/11   160.1/2540C   ABP     Dissolved Metals by ICP	Alkalinity, Total	316	10.0	mg/L	2	12/01/11	2320 B		ABP
TDS   335   10.0 mg/L   1   12/01/11   160.1/2540C   ABP	pH	8.01		pH Units	1	11/30/11	150.1		MJV
Dissolved Metals by ICP   Calcium   68.4   1.00   mg/L   1   12/05/11   200.7   JGS     Hardness   407   6.62   mg/L   1   12/05/11   Calc   JGS     Iron   ND   0.050   mg/L   1   12/05/11   200.7   JGS     Magnesium   57.4   1.00   mg/L   1   12/05/11   200.7   JGS     Manganese   0.005   0.005   mg/L   1   12/05/11   200.7   JGS	Sulfate	100	20.0	mg/L	2	12/02/11	4500SO4		ABP
Calcium         68.4         1.00 mg/L         1 12/05/11         200.7         JGS           Hardness         407         6.62 mg/L         1 12/05/11         Calc         JGS           Iron         ND         0.050 mg/L         1 12/05/11         200.7         JGS           Magnesium         57.4         1.00 mg/L         1 12/05/11         200.7         JGS           Manganese         0.005         0.005 mg/L         1 12/05/11         200.7         JGS	TDS	335	10.0	mg/L	1	12/01/11	160.1/2540C		ABP
Hardness         407         6.62         mg/L         1         12/05/11         Calc         JGS           fron         ND         0.050         mg/L         1         12/05/11         200.7         JGS           Magnesium         57.4         1.00         mg/L         1         12/05/11         200.7         JGS           Manganese         0.005         0.005         mg/L         1         12/05/11         200.7         JGS	Dissolved Metals by ICP								
Iron         ND         0.050         mg/L         1         12/05/11         200.7         JGS           Magnesium         57.4         1.00         mg/L         1         12/05/11         200.7         JGS           Manganese         0.005         0.005         mg/L         1         12/05/11         200.7         JGS	Calcium	68.4	1.00	mg/L	1	12/05/11	200.7		JGS
Magnesium         57.4         1.00 mg/L         1 12/05/11         200.7         JGS           Manganese         0.005         0.005 mg/L         1 12/05/11         200.7         JGS	Hardness	407	6.62	mg/L	1	12/05/11	Calc		JGS
Manganese 0.005 0.005 mg/L 1 12/05/11 200.7 JGS	Iron	ND	0.050	mg/L	1	12/05/11	200.7		JGS
Side the second	Magnesium	57.4	1.00	mg/L	1	12/05/11	200.7		JGS
Sodium 15.8 1.00 mg/L 1 12/05/11 200.7 JGS	Manganese	0.005	0.005	mg/L	1	12/05/11	200.7		JGS
	Sodium	15.8	1.00	mg/L	1	12/05/11	200.7		JGS

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GCC Energy, LLC 6473 CR 120 Hesperus CO, 81326 Project: Quarterly
Project Name / Number: King I & King II
Project Manager: Tom Bird

Reported:

12/13/11 13:53

# #3 Hay Gulch Ditch King II

# 1111123-04 (Water)

		Reporting						
Analyte	Result	Limit	Units	Dilution	Analyzed	Method	Notes	Analyst
Constant								
General Chemistry								
Alkalinity, Bicarbonate	108	10.0	mg/L	1	12/01/11	2320 B		ABP
Alkalinity, Carbonate	ND	10.0	mg/L	1	12/01/11	2320 B		ABP
Alkalinity, Hydroxide	ND	10.0	mg/L	1	12/01/11	2320 B		ABP
Alkalinity, Total	110	10.0	mg/L	1	12/01/11	2320 B		ABP
pH	8.25		pH Units	1	11/30/11	150.1		MJV
Sulfate	56.0	20.0	mg/L	2	12/02/11	4500SO4		ABP
TDS	120	10.0	mg/L	1	12/01/11	160.1/2540C		ABP
Dissolved Metals by ICP								
Calcium	41.0	1.00	mg/L	1	12/05/11	200.7		JGS
Hardness	163	6.62	mg/L	1	12/05/11	Calc		JGS
Iron	ND	0.050	mg/L	1	12/05/11	200.7		JGS
Magnesium	14.8	1.00	mg/L	1	12/05/11	200.7		JGS
Manganese	ND	0.005	mg/L	1	12/05/11	200.7		JGS
Sodium	5.58	1.00	mg/L	1	12/05/11	200.7		JGS

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GCC Energy, LLC Project: Quarterly
6473 CR 120 Project Name / Number: King I & King II
Hesperus CO, 81326 Project Manager: Tom Bird

Reported:

12/13/11 13:53

# **General Chemistry - Quality Control**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B112003 - General Prep - Wet Chem										
Duplicate (B112003-DUP4)	Sou	rce: 1111123-	-01	Prepared &	Analyzed:	11/30/11				
pH	7.46		pH Units		7.46			0.00	20	
Reference (B112003-SRM1)				Prepared &	: Analyzed:	11/30/11				
pH	8.41		pH Units	8.30		101	90-110			
Batch B112010 - General Prep - Wet Chem										
Blank (B112010-BLK1)				Prepared &	: Analyzed:	12/01/11				
Alkalinity, Total	ND	10.0	mg/L							
LCS (B112010-BS1)				Prepared &	Analyzed:	12/01/11				
Alkalinity, Total	101	10.0	mg/L	100		101	85-115			
LCS Dup (B112010-BSD1)				Prepared &	: Analyzed:	12/01/11				
Alkalinity, Total	105	10.0	mg/L	100		105	85-115	3.88	20	
Batch B112012 - General Prep - Wet Chem										
Blank (B112012-BLK1)				Prepared &	: Analyzed:	12/02/11				
Sulfate	ND	10.0	mg/L							
LCS (B112012-BS1)				Prepared &	: Analyzed:	12/02/11				
Sulfate	50.0	10.0	mg/L	50.0		100	80-120			
LCS Dup (B112012-BSD1)				Prepared &	: Analyzed:	12/02/11				
Sulfate	54.0	10.0	mg/L	50.0		108	80-120	7.69	20	

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GCC Energy, LLC 6473 CR 120 Hesperus CO, 81326 Project: Quarterly
Project Name / Number: King I & King II
Project Manager: Tom Bird

Reported:

12/13/11 13:53

# **General Chemistry - Quality Control**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B112013 - General Prep - Wet Chem										
Blank (B112013-BLK1)				Prepared &	: Analyzed:	12/01/11				
TDS	ND	10.0	mg/L							
Duplicate (B112013-DUP2)	Source: 1111128-01		Prepared &	: Analyzed:	12/01/11					
TDS	30.0	10.0	mg/L		40.0			28.6	20	R1
Reference (B112013-SRM1)				Prepared &	: Analyzed:	12/01/11				
TDS	3490	10.0	mg/L	3510		99.4	85-115			

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Source

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%REC

GCC Energy, LLC 6473 CR 120 Hesperus CO, 81326

Project: Quarterly Project Name / Number: King I & King II Project Manager: Tom Bird

Spike

Reported:

RPD

12/13/11 13:53

# **Dissolved Metals by ICP - Quality Control**

Reporting

Batch B112020 - Dissolved/Potentially Dissolved Metals  Blank (B112020-BLK1)  Calcium ND  Iron ND	1.00 0.050 1.00 0.005	mg/L mg/L mg/L	Prepared &	Analyzed:	12/05/11				
Calcium ND	0.050 1.00	mg/L	Prepared &	Analyzed:	12/05/11				
	0.050 1.00	mg/L							
Iron ND	1.00	10-11							
		mø/L							
Magnesium	0.005	B' L							
Manganese ND		mg/L							
Sodium ND	1.00	mg/L							
LCS (B112020-BS1)			Prepared &	Analyzed:	12/05/11				
Calcium 4.64	1.00	mg/L	5.00		92.8	85-115			
Iron 4.69	0.050	mg/L	5.00		93.8	85-115			
Magnesium 23.9	1.00	mg/L	25.0		95.4	85-115			
Manganese 2.40	0.005	mg/L	2.50		95.9	85-115			
Sodium 7.53	1.00	mg/L	8.10		93.0	85-115			
LCS Dup (B112020-BSD1)			Prepared &	Analyzed:	12/05/11				
Calcium 4.62	1.00	mg/L	5.00		92.3	85-115	0.565	20	
Iron 4.65	0.050	mg/L	5.00		92.9	85-115	1.01	20	
Magnesium 23.7	1.00	mg/L	25.0		94.8	85-115	0.688	20	
Manganese 2.38	0.005	mg/L	2.50		95.2	85-115	0.764	20	
Sodium 7.47	1.00	mg/L	8.10		92.2	85-115	0.915	20	

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GCC Energy, LLC Project: Quarterly
6473 CR 120 Project Name / Number: King I & King II Reported:
Hesperus CO, 81326 Project Manager: Tom Bird 12/13/11 13:53

## **Notes and Definitions**

Pl Duplicate sample RPD exceeded laboratory acceptance criteria. BS/BSD RPD was acceptable.

Sample received outside of acceptable temperature range for analyses requiring cold storage.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

\*Results reported on as received basis unless designated as dry.

RPD Relative Percent Difference

LCS Laboratory Control Sample (Blank Spike)

Green Analytical Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, 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 within thirty days after completion of the applicable service.

Seldie Zufett



# CHAIN OF CUSTODY RECORD

Contact: 70 m Client: FAX Number: 970 - 385 - 4638 Phone Number: 970,385, 4528 x6503 Address: 6473 HESDERUS シンの ENERGY P1326

NOTES:

- 1) Ensure proper container packaging.
- 2) Ship samples promptly following collection.
- 3) Designate Sample Reject Disposition.

Project Name: KING I & KING IT

3 = Soil/Sediment, 4 = Rinsate, 5 = Oil1 =Surface Water, 2 =Ground Water Table 1. – Matrix Type

1111-123 FOR GAL USE ONLY GAL JOB#

Samplers Signature: 6 =Waste, 7 =Other (Specify)

	Collection	75 Suttle Street, Durango, CO 81303	Green Analytical Laboratories	
ī	Miscellaneous		(970) 247-4220 FAX (970) 247-4227	PLEASE BILL SEPARATELY
y)	Preservative(s)	www.greenanalytical.com	AX (970) 247-4227	SEPARATELY
<i>Qu</i>	AR		Analyses Required	
		n di sun successor		

Lab Name:

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Relinquished by:	Relinquished by:	)						3 HAY GULCH WACK	3.#2 DOWNERADENT	10 PERAPIENT	1. WILTZE WELL	Sample ID		Address: 75 Suttle S
	Mound		2					11/29/11	11/29/11	11/29/11	11/29/11	Date	Collection	75 Suttle Street, Durango, CO 81303
_	莽	7			ayas asan da qilana			1:30pm	1:15 pm	licopm	1230pm	Time	tion	go, CO 813
							(	7	8	B	77	Collected by: (Init.)		03
Date:	Date:		lar.	41.				N	V	N	2	Matrix Type From Table 1	Miscellaneous	
	1-20-11							N	2	7	N	No. of Containers	aneous	www
	•						2/3000000 Outlier	T	2	2	2	Sample Filtered ? Y/N		www.greenanalytical.com
Time:	Time:		7					<			X	Unpreserved (Ice Only)		nana
010	2											HNO3	Pre	ılyti
												HCL	serva	cal.
Received by:	Received by:											H2SO4	Preservative(s)	con
ved b	ved b											NAOH	(s)	
y:	y:								ASSESSED AND ADDRESS OF THE PARTY OF THE PAR			Other (Specify)		
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<sup>\*</sup>Sample Reject: [ ] Return [ ] Dispose [ ] Store (30 Days)

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