
Appendix 3C.5
Water Chemistry Data
Ballinger Way Portal

December 2005



Received
FEB 03 2005
CDM

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27 January 2005

Scott Coffey
CDM - Camp, Dresser & McKee - Bellevue
11811 NE 1st Suite 201
Bellevue, WA 98005
RE: Brightwater

Enclosed are the results of analyses for samples received by the laboratory on 01/14/05 11:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to be 'Amar Gill', written over a horizontal line.

Amar Gill
Project Manager



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CDM - Camp, Dresser & McKee - Bellevue
 11811 NE 1st Suite 201
 Bellevue, WA 98005

Project: Brightwater
 Project Number: 19897-43507-Lab.Sub.Land
 Project Manager: Scott Coffey

Reported:
 01/27/05 11:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
P5-01	B5A0319-01	Water	01/13/05 16:15	01/14/05 11:15

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CDM - Camp, Dresser & McKee - Bellevue 11811 NE 1st Suite 201 Bellevue, WA 98005	Project: Brightwater Project Number: 19897-43507-Lab.Sub.Land Project Manager: Scott Coffey	Reported: 01/27/05 11:51
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**Total Metals by EPA 6000/7000 Series Methods
 North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

P5-01 (B5A0319-01) Water **Sampled: 01/13/05 16:15** **Received: 01/14/05 11:15**

Calcium	13.5	0.250		mg/l	1	5A20036	01/20/05	01/24/05	EPA 6010B	
Iron	ND	0.150		"	"	"	"	"	"	
Potassium	3.88	2.00		"	"	"	"	"	"	
Magnesium	3.61	0.500		"	"	"	"	"	"	
Manganese	ND	0.0100		"	"	5A21048	01/21/05	01/22/05	EPA 6020	
Sodium	24.1	0.250		"	"	5A20036	01/20/05	01/24/05	EPA 6010B	

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CDM - Camp, Dresser & McKee - Bellevue 11811 NE 1st Suite 201 Bellevue, WA 98005	Project: Brightwater Project Number: 19897-43507-Lab.Sub.Land Project Manager: Scott Coffey	Reported: 01/27/05 11:51
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Conventional Chemistry Parameters by APHA/EPA Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								

P5-01 (BSA0319-01) Water **Sampled: 01/13/05 16:15** **Received: 01/14/05 11:15**

Bicarbonate Alkalinity	86.9	5.00		mg/L as CaCO3	1	5A19036	01/18/05	01/18/05	SM 2320B	
Carbonate Alkalinity	11.6	5.00		"	"	"	"	"	"	
Hydroxide Alkalinity	ND	5.00		"	"	"	"	"	"	
Total Alkalinity	98.5	5.00		"	"	"	"	"	"	
Orthophosphate-phosphorus	0.247	0.00200		mg/l	"	5A14056	01/14/05	01/14/05	EPA 365.2	

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Anions by EPA Method 300.0
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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P5-01 (B5A0319-01) Water **Sampled: 01/13/05 16:15** **Received: 01/14/05 11:15**

Chloride	2.52	0.400	mg/l	1	5A17040	01/14/05	01/14/05	EPA 300.0	
Fluoride	0.210	0.200	"	"	5A20058	01/19/05	01/19/05	"	
Nitrate-Nitrogen	ND	0.200	mg/l as N	"	5A17040	01/14/05	01/14/05	"	
Nitrite-Nitrogen	ND	0.200	"	"	"	"	"	"	
Sulfate	3.00	0.400	mg/l	"	"	"	"	"	

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**Total Metals by EPA 6000/7000 Series Methods - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5A20036: Prepared 01/20/05 Using EPA 3010A										
Blank (5A20036-BLK1)										
Calcium	ND	0.250	mg/l							
Iron	ND	0.150	"							
Potassium	ND	2.00	"							
Magnesium	ND	0.500	"							
Sodium	ND	0.250	"							
LCS (5A20036-BS1)										
Calcium	5.02	0.250	mg/l	5.00		100	80-120			
Iron	5.12	0.150	"	5.00		102	80-120			
Potassium	10.4	2.00	"	10.0		104	80-120			
Magnesium	5.04	0.500	"	5.00		101	80-120			
Sodium	5.25	0.250	"	5.00		105	80-120			
LCS Dup (5A20036-BSD1)										
Calcium	5.04	0.250	mg/l	5.00		101	80-120	0.398	20	
Iron	5.18	0.150	"	5.00		104	80-120	1.17	20	
Potassium	11.1	2.00	"	10.0		111	80-120	6.51	20	
Magnesium	5.09	0.500	"	5.00		102	80-120	0.987	20	
Sodium	5.40	0.250	"	5.00		108	80-120	2.82	20	
Matrix Spike (5A20036-MS1) Source: B5A0300-02										
Calcium	53.8	0.250	mg/l	5.00	54.4	-12.0	75-125			Q-03
Iron	42.9	0.150	"	5.00	41.5	28.0	75-125			Q-03
Potassium	13.6	2.00	"	10.0	3.08	105	80-120			
Magnesium	18.8	0.500	"	5.00	15.0	76.0	80-120			Q-03
Sodium	29.8	0.250	"	5.00	26.0	76.0	75-125			
Matrix Spike Dup (5A20036-MSD1) Source: B5A0300-02										
Calcium	52.3	0.250	mg/l	5.00	54.4	-42.0	75-125	2.83	20	Q-03
Iron	41.8	0.150	"	5.00	41.5	6.00	75-125	2.60	20	Q-03
Potassium	13.7	2.00	"	10.0	3.08	106	80-120	0.733	20	
Magnesium	18.4	0.500	"	5.00	15.0	68.0	80-120	2.15	20	Q-03
Sodium	29.4	0.250	"	5.00	26.0	68.0	75-125	1.35	20	Q-03

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**Total Metals by EPA 6000/7000 Series Methods - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5A20036: Prepared 01/20/05 Using EPA 3010A

Post Spike (5A20036-PS1)				Source: B5A0300-02						
Calcium	54.7		ug/ml	5.00	54.4	6.00	75-125			Q-03
Iron	43.6		"	5.00	41.5	42.0	75-125			Q-03
Potassium	12.9		"	10.0	3.08	98.2	75-125			
Magnesium	18.9		"	5.00	15.0	78.0	75-125			
Sodium	29.4		"	5.00	26.0	68.0	75-125			Q-03

Batch 5A21048: Prepared 01/21/05 Using EPA 3020A

Blank (5A21048-BLK1)

Manganese	ND	0.0100	mg/l							
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LCS (5A21048-BS1)

Manganese	0.0820	0.0100	mg/l	0.0800		102	80-120			
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LCS Dup (5A21048-BSD1)

Manganese	0.0825	0.0100	mg/l	0.0800		103	80-120	0.608	20	
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Matrix Spike (5A21048-MS1)

Source: B5A0395-01

Manganese	0.180	0.0100	mg/l	0.0800	0.0971	104	54-158			
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Matrix Spike Dup (5A21048-MSD1)

Source: B5A0395-01

Manganese	0.177	0.0100	mg/l	0.0800	0.0971	99.9	54-158	1.68	20	
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Post Spike (5A21048-PS1)

Source: B5A0395-01

Manganese	0.199		ug/ml	0.100	0.0971	102	75-125			
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**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5A14056: Prepared 01/14/05 Using General Preparation

Blank (5A14056-BLK1)

Orthophosphate-phosphorus	ND	0.00200	mg/l							
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LCS (5A14056-BS1)

Orthophosphate-phosphorus	0.102	0.00200	mg/l	0.0999		102	90-110			
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LCS Dup (5A14056-BSD1)

Orthophosphate-phosphorus	0.101	0.00200	mg/l	0.0999		101	90-110	0.985	20	
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Duplicate (5A14056-DUP1)

Source: B5A0319-01

Orthophosphate-phosphorus	0.245	0.00200	mg/l		0.247			0.813	25	
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Matrix Spike (5A14056-MS1)

Source: B5A0319-01

Orthophosphate-phosphorus	0.628	0.0100	mg/l	0.388	0.247	98.2	80-120			
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Batch 5A19036: Prepared 01/18/05 Using General Preparation

Blank (5A19036-BLK1)

Bicarbonate Alkalinity	ND	5.00	mg/L as CaCO3							
Carbonate Alkalinity	ND	5.00	"							
Hydroxide Alkalinity	ND	5.00	"							
Total Alkalinity	ND	5.00	"							

LCS (5A19036-BS1)

Total Alkalinity	49.2	5.00	mg/L as CaCO3	50.0		98.4	90-110			
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LCS Dup (5A19036-BSD1)

Total Alkalinity	49.5	5.00	mg/L as CaCO3	50.0		99.0	90-110	0.608	20	
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**Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5A19036: Prepared 01/18/05 Using General Preparation

Duplicate (5A19036-DUP1)

Source: B5A0300-02

Bicarbonate Alkalinity	260	5.00 mg/L as CaCO3			247			5.13	20	
Carbonate Alkalinity	ND	5.00	"		ND			NA	20	
Hydroxide Alkalinity	ND	5.00	"		ND			NA	20	
Total Alkalinity	260	5.00	"		247			5.13	20	

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**Anions by EPA Method 300.0 - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5A17040: Prepared 01/14/05 Using General Preparation

Blank (5A17040-BLK1)

Chloride	ND	0.400	mg/l							
Nitrate-Nitrogen	ND	0.200	mg/l as N							
Nitrite-Nitrogen	ND	0.200	"							
Sulfate	ND	0.400	mg/l							

LCS (5A17040-BS1)

Chloride	1.99	0.400	mg/l	2.00		99.5	90-110			
Nitrate-Nitrogen	1.03	0.200	mg/l as N	1.00		103	90-110			
Nitrite-Nitrogen	1.00	0.200	"	1.00		100	90-110			
Sulfate	5.96	0.400	mg/l	6.00		99.3	90-110			

LCS Dup (5A17040-BSD1)

Chloride	2.00	0.400	mg/l	2.00		100	90-110	0.501	20	
Nitrate-Nitrogen	1.02	0.200	mg/l as N	1.00		102	90-110	0.976	20	
Nitrite-Nitrogen	0.999	0.200	"	1.00		99.9	90-110	0.100	20	
Sulfate	6.01	0.400	mg/l	6.00		100	90-110	0.835	20	

Duplicate (5A17040-DUP2)

Source: B5A0319-01

Chloride	2.45	0.400	mg/l		2.52			2.82	25	
Nitrate-Nitrogen	0.0530	0.200	mg/l as N		0.0480			9.90	25	
Nitrite-Nitrogen	ND	0.200	"		ND			NA	25	
Sulfate	2.97	0.400	mg/l		3.00			1.01	25	

Matrix Spike (5A17040-MS1)

Source: B5A0300-02

Nitrate-Nitrogen	1.06	0.200	mg/l as N	1.00	ND	106	54-124			
Nitrite-Nitrogen	1.07	0.200	"	1.00	ND	107	56-133			
Sulfate	7.50	0.400	mg/l	6.00	1.41	102	58-135			

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 Project Manager: Scott Coffey

Reported:
 01/27/05 11:51

Anions by EPA Method 300.0 - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5A17040: Prepared 01/14/05 Using General Preparation

Matrix Spike (5A17040-MS2)

Source: B5A0319-01

Chloride	4.40	0.400	mg/l	2.00	2.52	94.0	52-134			
Nitrate-Nitrogen	1.06	0.200	mg/l as N	1.00	0.0480	101	54-124			
Nitrite-Nitrogen	1.03	0.200	"	1.00	ND	103	56-133			
Sulfate	9.07	0.400	mg/l	6.00	3.00	101	58-135			

Matrix Spike Dup (5A17040-MSD1)

Source: B5A0300-02

Nitrate-Nitrogen	1.08	0.200	mg/l as N	1.00	ND	108	54-124	1.87	25	
Nitrite-Nitrogen	1.08	0.200	"	1.00	ND	108	56-133	0.930	25	
Sulfate	7.56	0.400	mg/l	6.00	1.41	102	58-135	0.797	25	

Batch 5A20058: Prepared 01/19/05 Using General Preparation

Blank (5A20058-BLK1)

Fluoride	ND	0.200	mg/l							
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LCS (5A20058-BS1)

Fluoride	0.776	0.200	mg/l	0.800		97.0	90-110			
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LCS Dup (5A20058-BSD1)

Fluoride	0.784	0.200	mg/l	0.800		98.0	90-110	1.03	20	
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Duplicate (5A20058-DUP1)

Source: B5A0319-01

Fluoride	0.203	0.200	mg/l		0.210			3.39	25	
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Matrix Spike (5A20058-MS1)

Source: B5A0319-01

Fluoride	0.932	0.200	mg/l	0.800	0.210	90.2	49-146			
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Amar Gill, Project Manager

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CDM - Camp, Dresser & McKee - Bellevue 11811 NE 1st Suite 201 Bellevue, WA 98005	Project: Brightwater Project Number: 19897-43507-Lab.Sub.Land Project Manager: Scott Coffey	Reported: 01/27/05 11:51
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Notes and Definitions

- Q-03 The percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte already present in the sample.
- 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
- RPD Relative Percent Difference

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