

APPENDIX C
TYPE CURVE MATCHES

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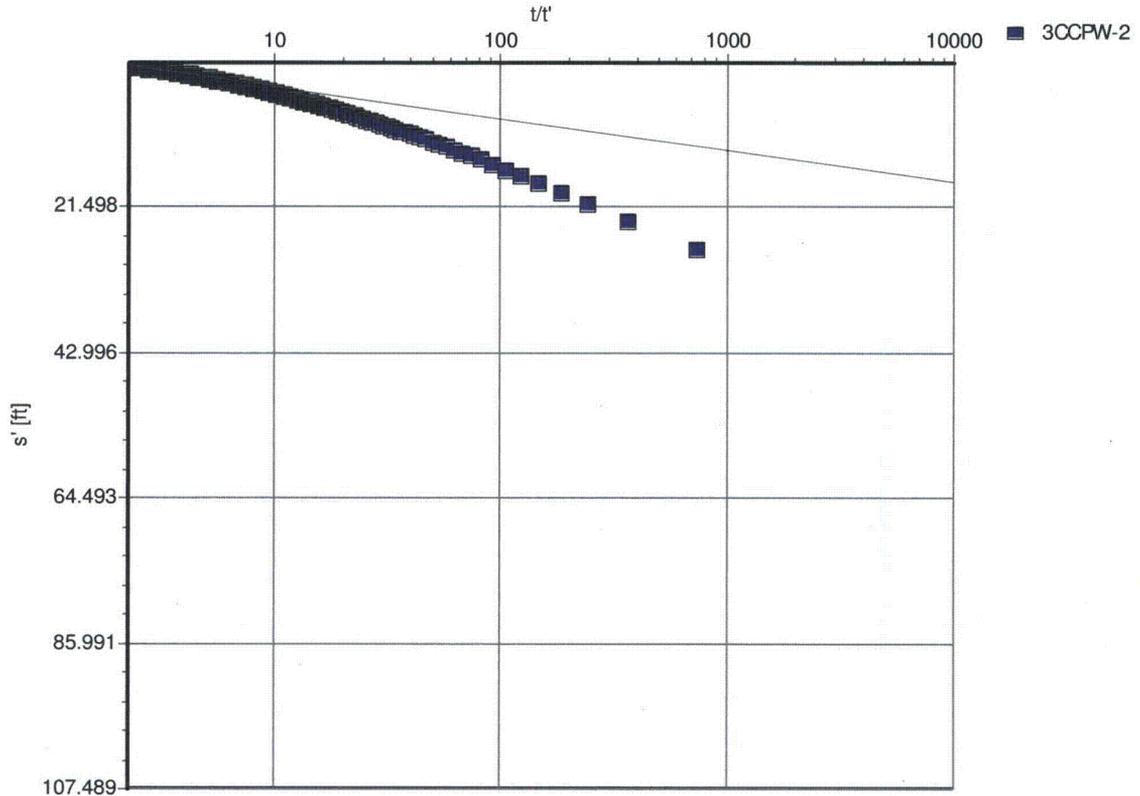
Pumping Test Analysis Report

Project: Three Crow Regional Pump Test

Number: 223-42

Client: Crow Butte Resources, Inc.

Three Crow Regional Pump Test [Theis Recovery]



Pumping Test: **Three Crow Regional Pump Test**

Analysis Method: **Theis Recovery**

Analysis Results: Transmissivity: 3.35E+2 [ft²/d] Conductivity: 5.24E+0 [ft/d]

Test parameters:

Pumping Well:	3CCPW-2	Aquifer Thickness:	64 [ft]
Casing radius:	0.19 [ft]	Confined Aquifer	
Screen length:	55 [ft]		
Boring radius:	0.33 [ft]		
Discharge Rate:	44.7 [U.S. gal/min]		
Pumping Time	10980 [min]		

Comments:

Evaluated by: KRS/HPD

Evaluation Date: 6/13/2008



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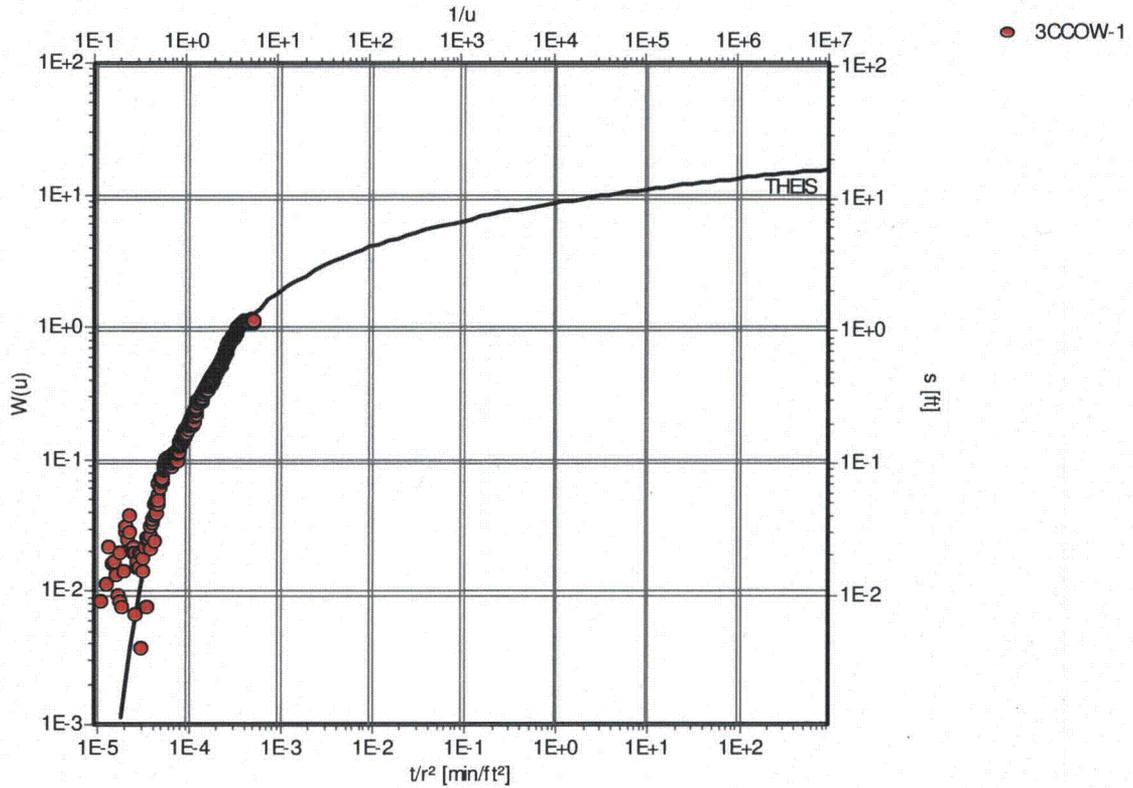
Pumping Test Analysis Report

Project: Three Crow Regional Pump Test

Number: 223-42

Client: Crow Butte Resources, Inc.

Three Crow Regional Pump Test [Theis]



Pumping Test: **Three Crow Regional Pump Test**

Analysis Method: **Theis**

Analysis Results: Transmissivity: 6.38E+2 [ft²/d] Conductivity: 9.97E+0 [ft/d]
 Storativity: 1.64E-4

Test parameters: Pumping Well: 3CCPW-2 Aquifer Thickness: 64 [ft]
 Casing radius: 0.19 [ft] Confined Aquifer
 Screen length: 55 [ft]
 Boring radius: 0.33 [ft]
 Discharge Rate: 44.7 [U.S. gal/min]

Comments:

Evaluated by: KRS/HPD

Evaluation Date: 6/16/2008



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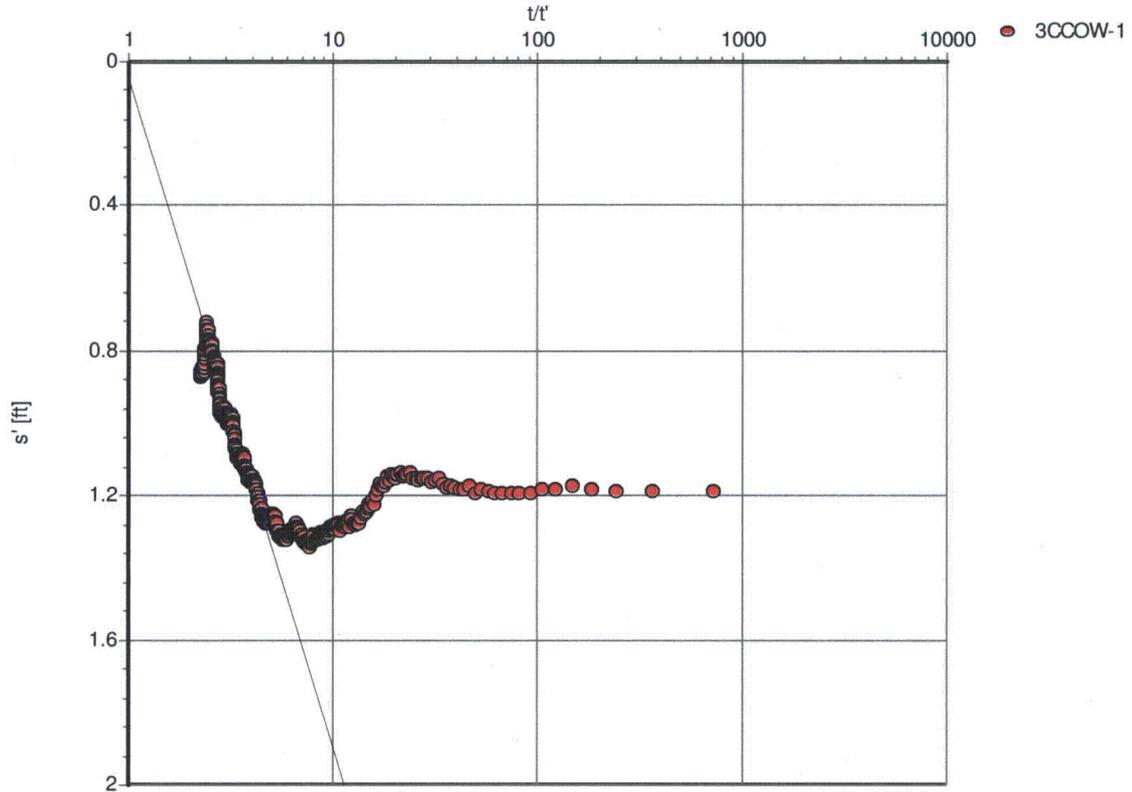
Pumping Test Analysis Report

Project: Three Crow Regional Pump Test

Number: 223-42

Client: Crow Butte Resources, Inc.

Three Crow Regional Pump Test [Theis Recovery]



Pumping Test: **Three Crow Regional Pump Test**

Analysis Method: **Theis Recovery**

Analysis Results: Transmissivity: 8.48E+2 [ft²/d] Conductivity: 1.32E+1 [ft/d]

Test parameters: Pumping Well: 3CCPW-2 Aquifer Thickness: 64 [ft]
 Casing radius: 0.19 [ft] Confined Aquifer
 Screen length: 55 [ft]
 Boring radius: 0.33 [ft]
 Discharge Rate: 44.7 [U.S. gal/min]
 Pumping Time: 10980 [min]

Comments:

Evaluated by: KRS/HPD

Evaluation Date: 6/13/2008



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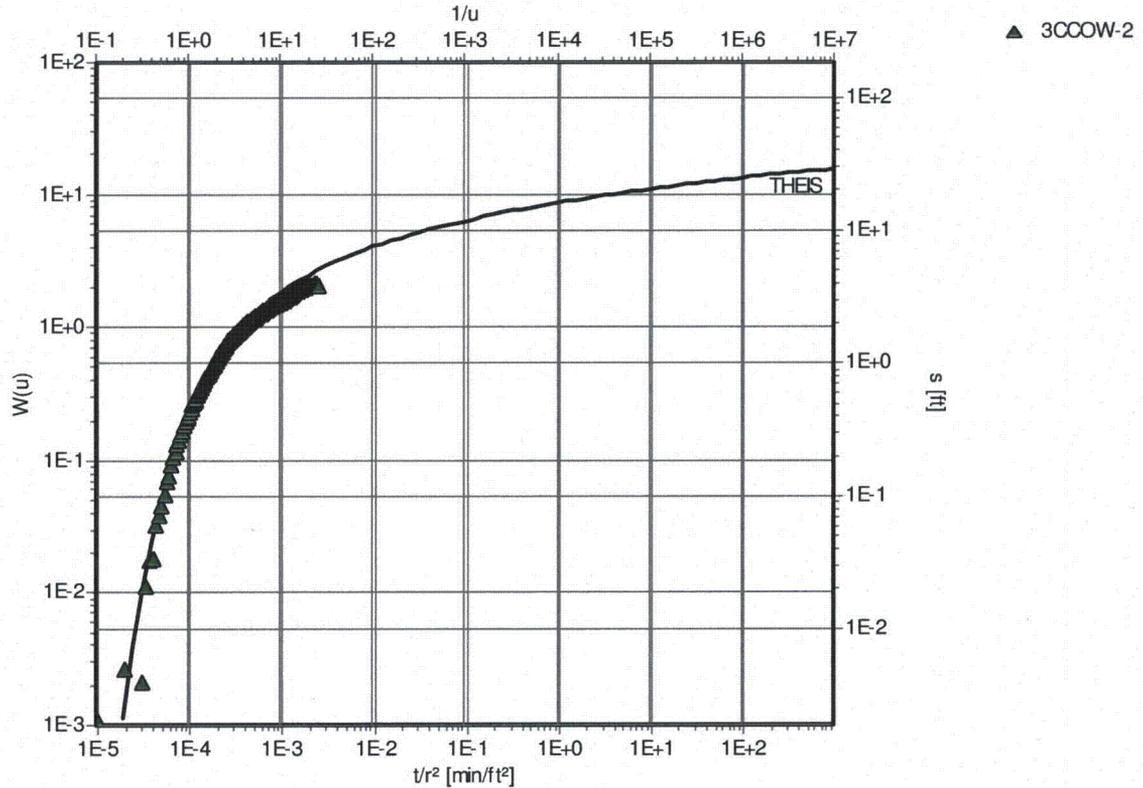
Pumping Test Analysis Report

Project: Three Crow Regional Pump Test

Number: 223-42

Client: Crow Butte Resources, Inc.

Three Crow Regional Pump Test [Theis]



Pumping Test: **Three Crow Regional Pump Test**

Analysis Method: **Theis**

Analysis Results: Transmissivity: 3.67E+2 [ft²/d] Conductivity: 5.74E+0 [ft/d]
 Storativity: 9.66E-5

Test parameters: Pumping Well: 3CCPW-2 Aquifer Thickness: 64 [ft]
 Casing radius: 0.19 [ft] Confined Aquifer
 Screen length: 55 [ft]
 Boring radius: 0.33 [ft]
 Discharge Rate: 44.7 [U.S. gal/min]

Comments:

Evaluated by: KRS/HPD

Evaluation Date: 6/13/2008



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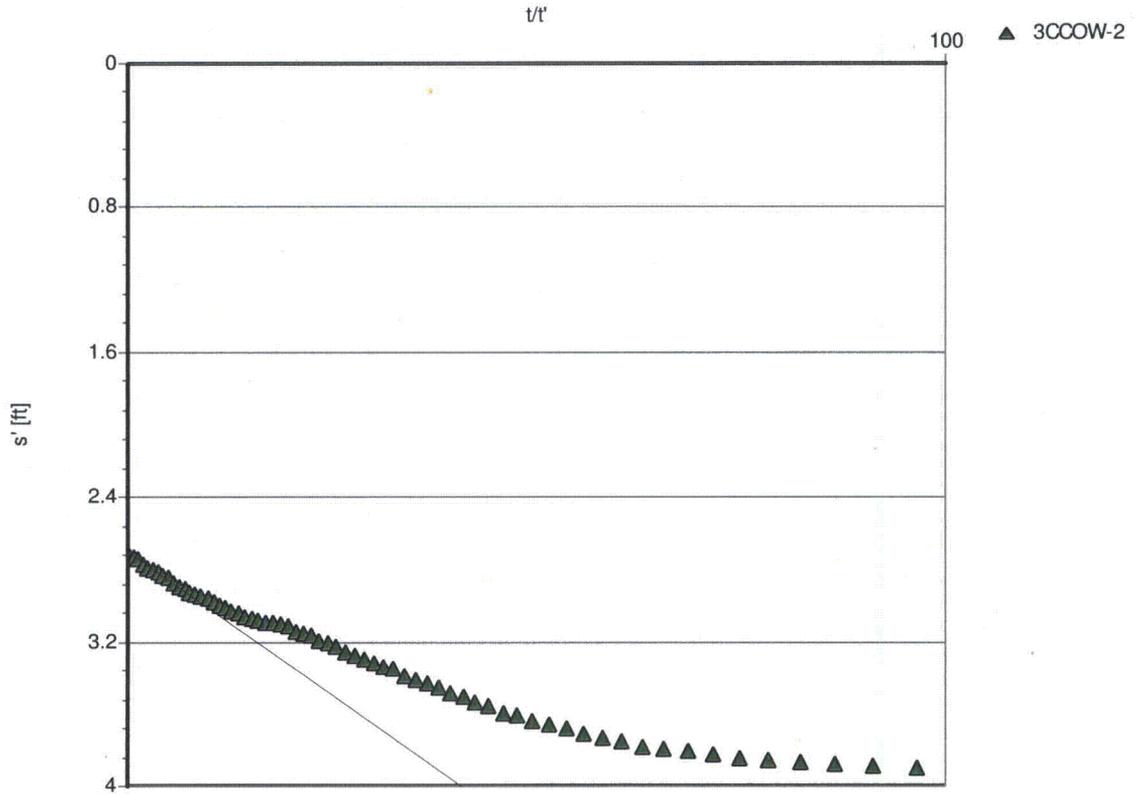
Pumping Test Analysis Report

Project: Three Crow Regional Pump Test

Number: 223-42

Client: Crow Butte Resources, Inc.

Three Crow Regional Pump Test [Theis Recovery]



Pumping Test: **Three Crow Regional Pump Test**

Analysis Method: **Theis Recovery**

Analysis Results: Transmissivity: 4.73E+2 [ft²/d] Conductivity: 7.39E+0 [ft/d]

Test parameters: Pumping Well: 3CCPW-2 Aquifer Thickness: 64 [ft]
 Casing radius: 0.19 [ft] Confined Aquifer
 Screen length: 55 [ft]
 Boring radius: 0.33 [ft]
 Discharge Rate: 44.7 [U.S. gal/min]
 Pumping Time: 10980 [min]

Comments:

Evaluated by: KRS/HPD

Evaluation Date: 6/13/2008



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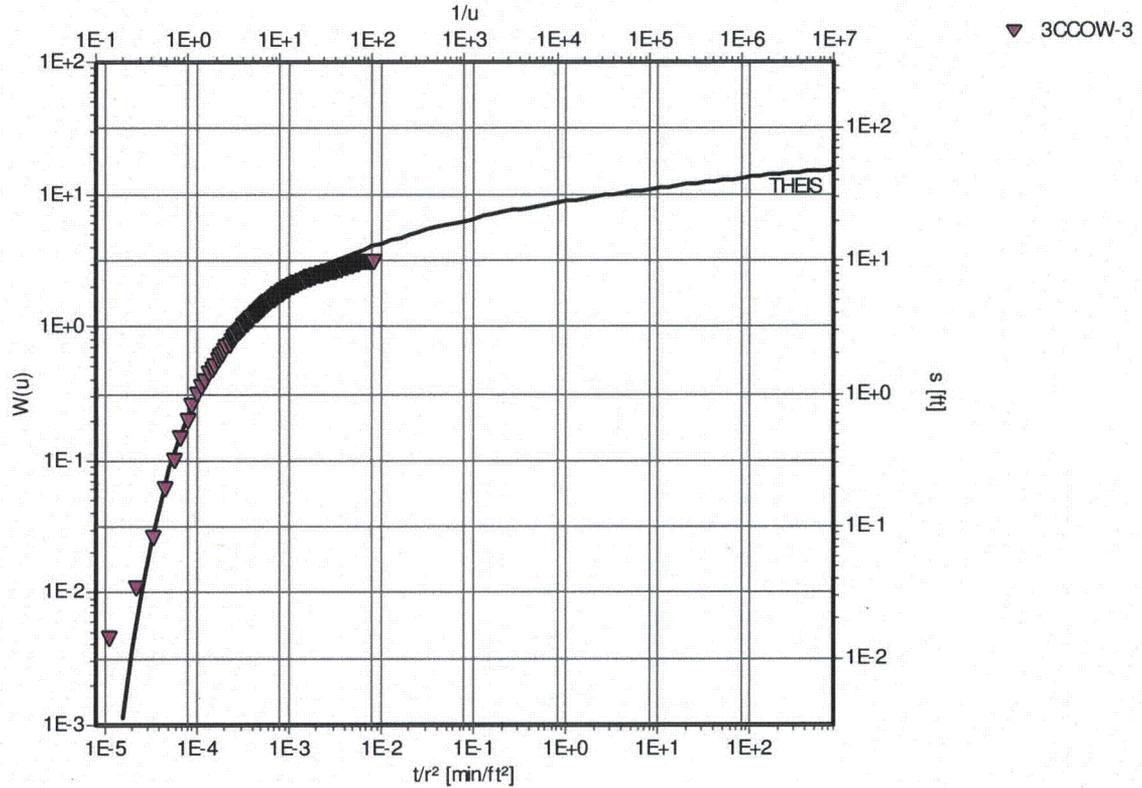
Pumping Test Analysis Report

Project: Three Crow Regional Pump Test

Number: 223-42

Client: Crow Butte Resources, Inc.

Three Crow Regional Pump Test [Theis]



Pumping Test: **Three Crow Regional Pump Test**

Analysis Method: **Theis**

Analysis Results: Transmissivity: 2.16E+2 [ft²/d] Conductivity: 3.38E+0 [ft/d]
Storativity: 4.84E-5

Test parameters: Pumping Well: 3CCPW-2 Aquifer Thickness: 64 [ft]
Casing radius: 0.19 [ft] Confined Aquifer
Screen length: 55 [ft]
Boring radius: 0.33 [ft]
Discharge Rate: 44.7 [U.S. gal/min]

Comments:

Evaluated by: KRS/HPD

Evaluation Date: 6/13/2008



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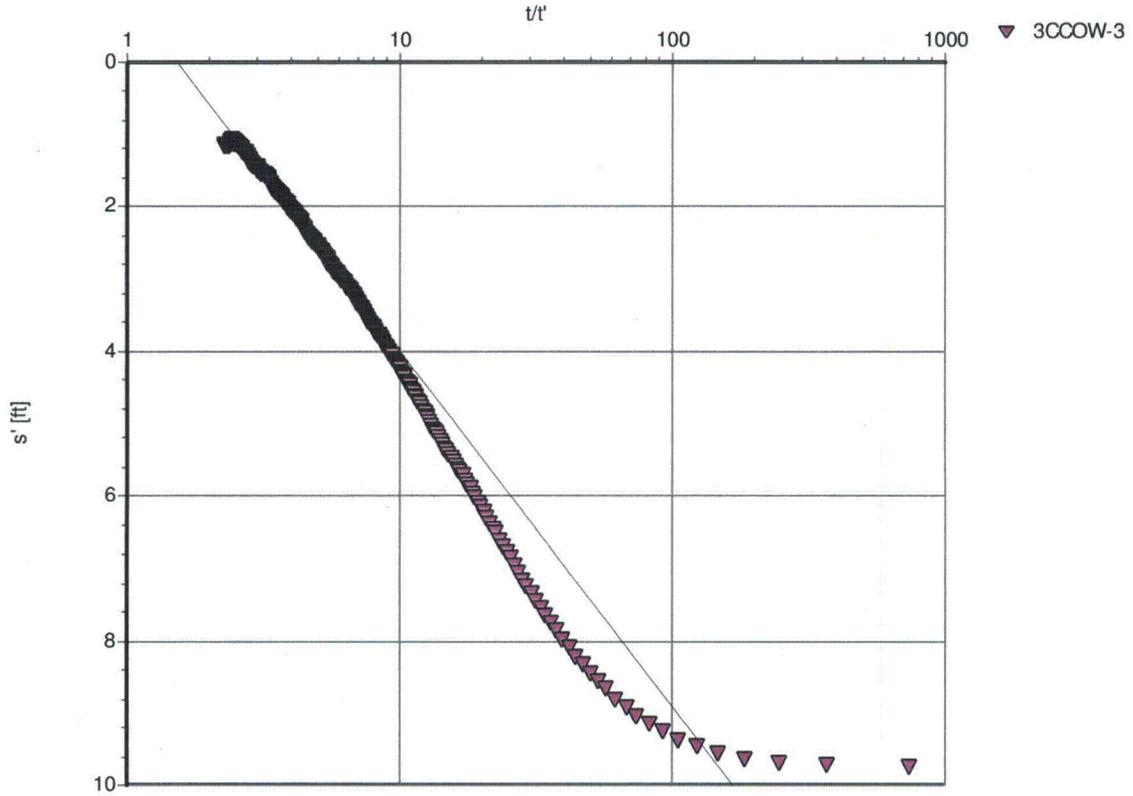
Pumping Test Analysis Report

Project: Three Crow Regional Pump Test

Number: 223-42

Client: Crow Butte Resources, Inc.

Three Crow Regional Pump Test [Theis Recovery]



Pumping Test: Three Crow Regional Pump Test

Analysis Method: Theis Recovery

Analysis Results: Transmissivity: 3.22E+2 [ft²/d] Conductivity: 5.04E+0 [ft/d]

Test parameters: Pumping Well: 3CCPW-2 Aquifer Thickness: 64 [ft]
 Casing radius: 0.19 [ft] Confined Aquifer
 Screen length: 55 [ft]
 Boring radius: 0.33 [ft]
 Discharge Rate: 44.7 [U.S. gal/min]
 Pumping Time: 10980 [min]

Comments:

Evaluated by: KRS/HPD

Evaluation Date: 6/13/2008



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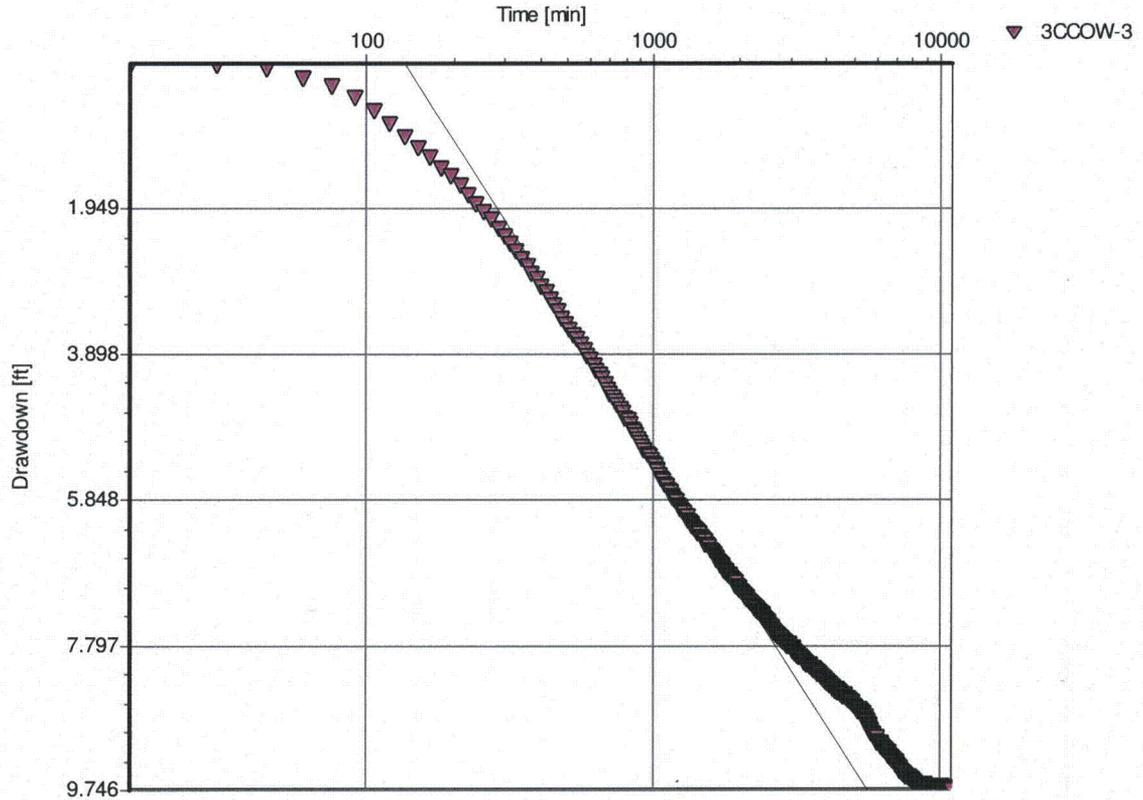
Pumping Test Analysis Report

Project: Three Crow Regional Pump Test

Number: 223-42

Client: Crow Butte Resources, Inc.

Three Crow Regional Pump Test [Cooper-Jacob Time-Drawdown]



Pumping Test: **Three Crow Regional Pump Test**

Analysis Method: **Cooper-Jacob Time-Drawdown**

<u>Analysis Results:</u>	Transmissivity:	2.61E+2 [ft ² /d]	Conductivity:	4.08E+0 [ft/d]
	Storativity:	4.14E-5		

<u>Test parameters:</u>	Pumping Well:	3CCPW-2	Aquifer Thickness:	64 [ft]
	Casing radius:	0.19 [ft]	Confined Aquifer	
	Screen length:	55 [ft]		
	Boring radius:	0.33 [ft]		
	Discharge Rate:	44.7 [U.S. gal/min]		

Comments:

Evaluated by: KRS/HPD

Evaluation Date: 6/16/2008



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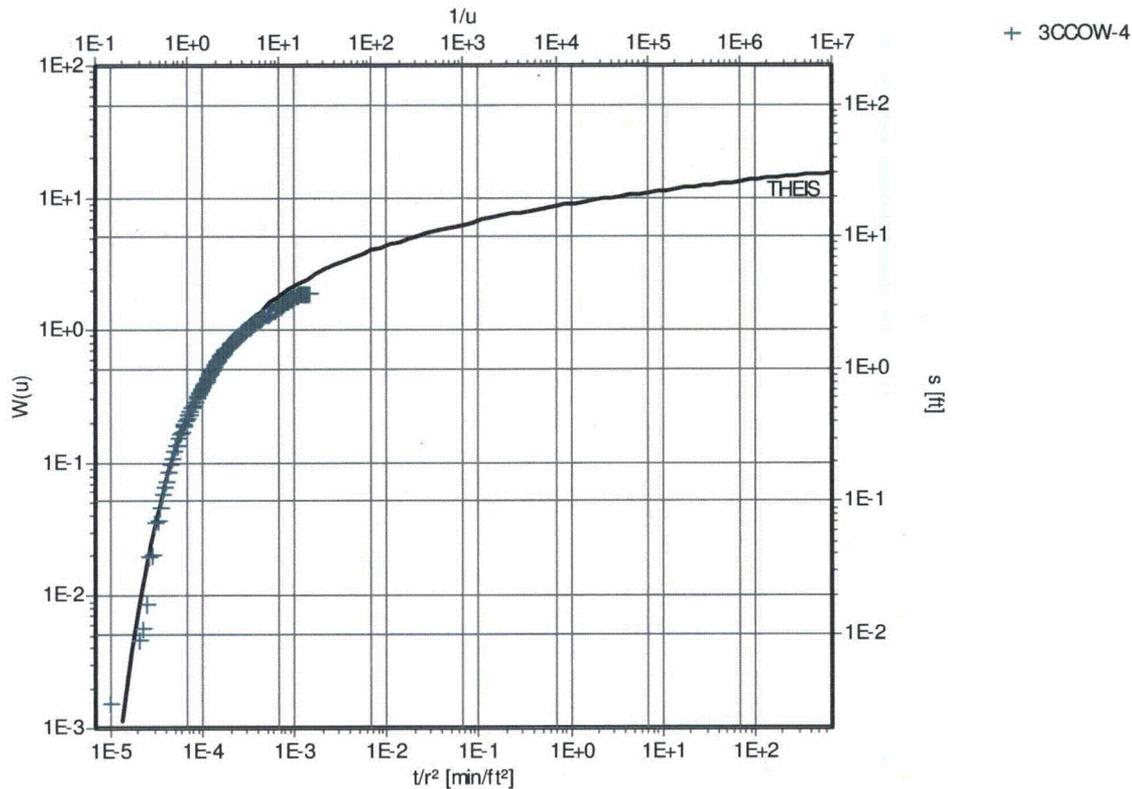
Pumping Test Analysis Report

Project: Three Crow Regional Pump Test

Number: 223-42

Client: Crow Butte Resources, Inc.

Three Crow Regional Pump Test [Theis]



Pumping Test: **Three Crow Regional Pump Test**

Analysis Method: **Theis**

Analysis Results: Transmissivity: 3.51E+2 [ft²/d] Conductivity: 5.48E+0 [ft/d]
Storativity: 6.68E-5

Test parameters: Pumping Well: 3CCPW-2 Aquifer Thickness: 64 [ft]
Casing radius: 0.19 [ft] Confined Aquifer
Screen length: 55 [ft]
Boring radius: 0.33 [ft]
Discharge Rate: 44.7 [U.S. gal/min]

Comments:

Evaluated by: KRS/HPD

Evaluation Date: 6/13/2008



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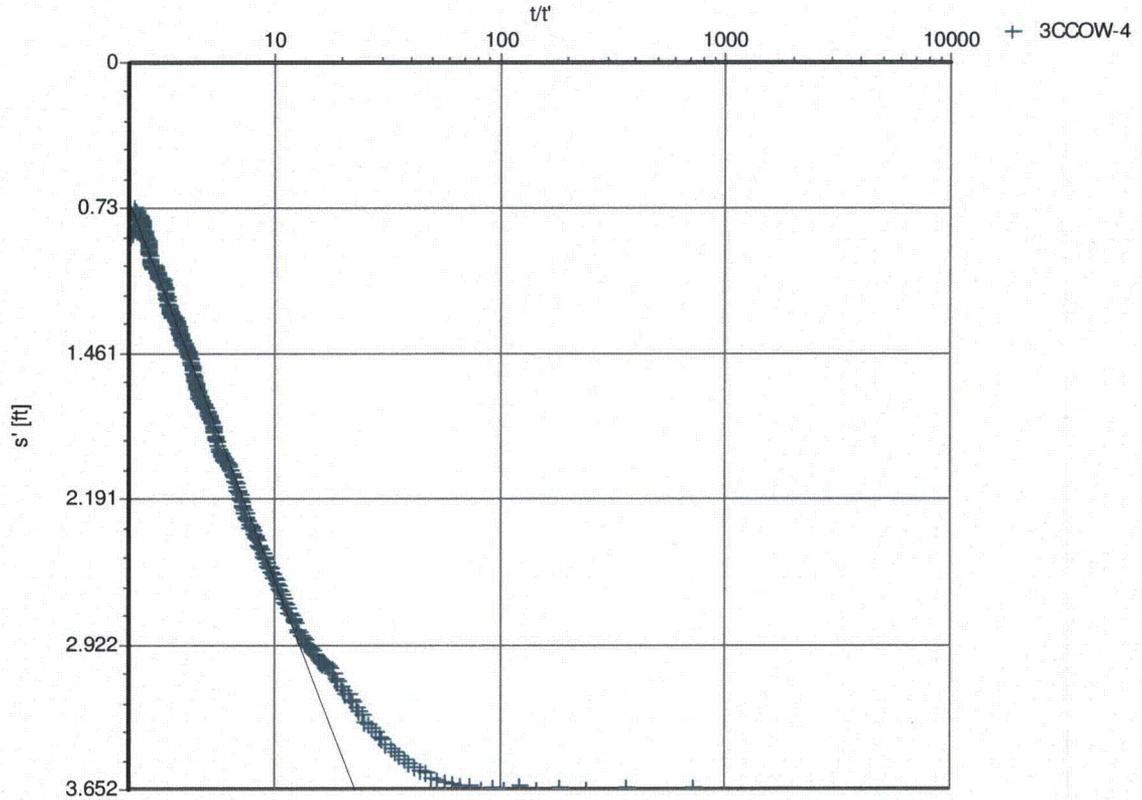
Pumping Test Analysis Report

Project: Three Crow Regional Pump Test

Number: 223-42

Client: Crow Butte Resources, Inc.

Three Crow Regional Pump Test [This Recovery]



Pumping Test: **Three Crow Regional Pump Test**

Analysis Method: **This Recovery**

Analysis Results: Transmissivity: 5.31E+2 [ft²/d] Conductivity: 8.29E+0 [ft/d]

Test parameters: Pumping Well: 3CCPW-2 Aquifer Thickness: 64 [ft]
 Casing radius: 0.19 [ft] Confined Aquifer
 Screen length: 55 [ft]
 Boring radius: 0.33 [ft]
 Discharge Rate: 44.7 [U.S. gal/min]
 Pumping Time: 10980 [min]

Comments:

Evaluated by: KRS/HPD

Evaluation Date: 6/13/2008



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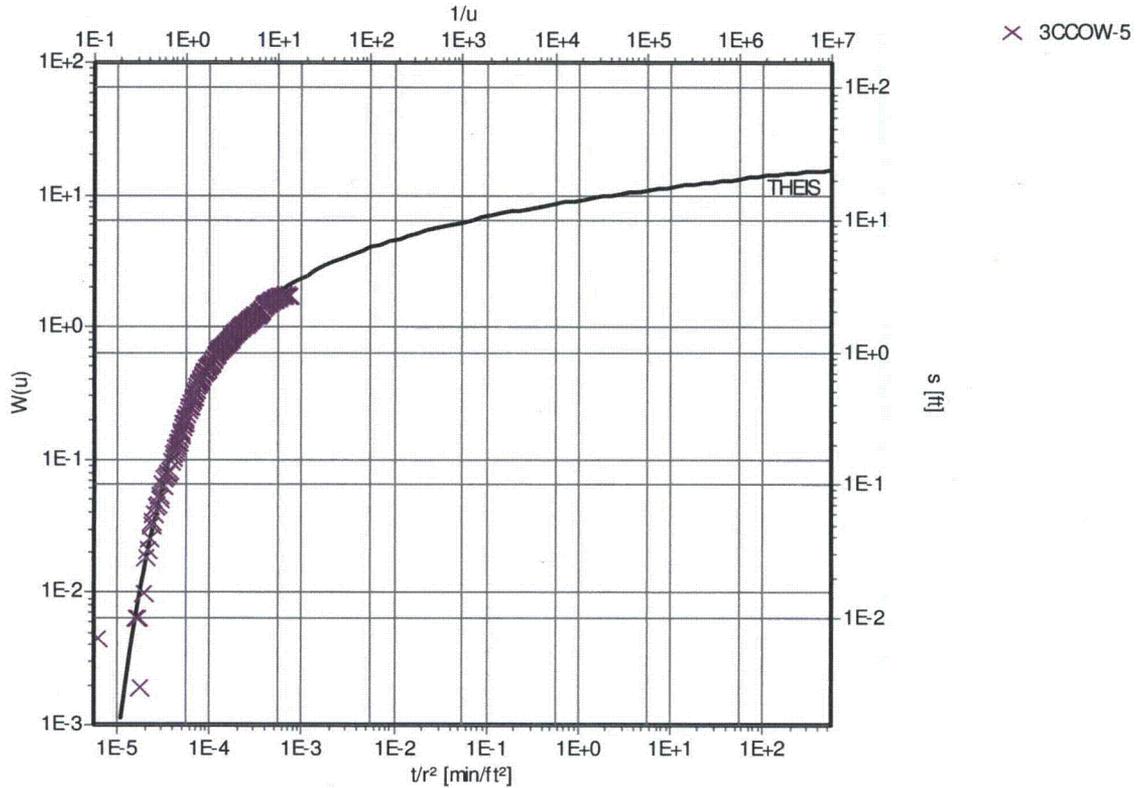
Pumping Test Analysis Report

Project: Three Crow Regional Pump Test

Number: 223-42

Client: Crow Butte Resources, Inc.

Three Crow Regional Pump Test [Theis]



Pumping Test: **Three Crow Regional Pump Test**

Analysis Method: **Theis**

Analysis Results: Transmissivity: 4.42E+2 [ft²/d] Conductivity: 6.90E+0 [ft/d]
 Storativity: 6.84E-5

Test parameters: Pumping Well: 3CCPW-2 Aquifer Thickness: 64 [ft]
 Casing radius: 0.19 [ft] Confined Aquifer
 Screen length: 55 [ft]
 Boring radius: 0.33 [ft]
 Discharge Rate: 44.7 [U.S. gal/min]

Comments:

Evaluated by: KRS/HPD

Evaluation Date: 6/13/2008



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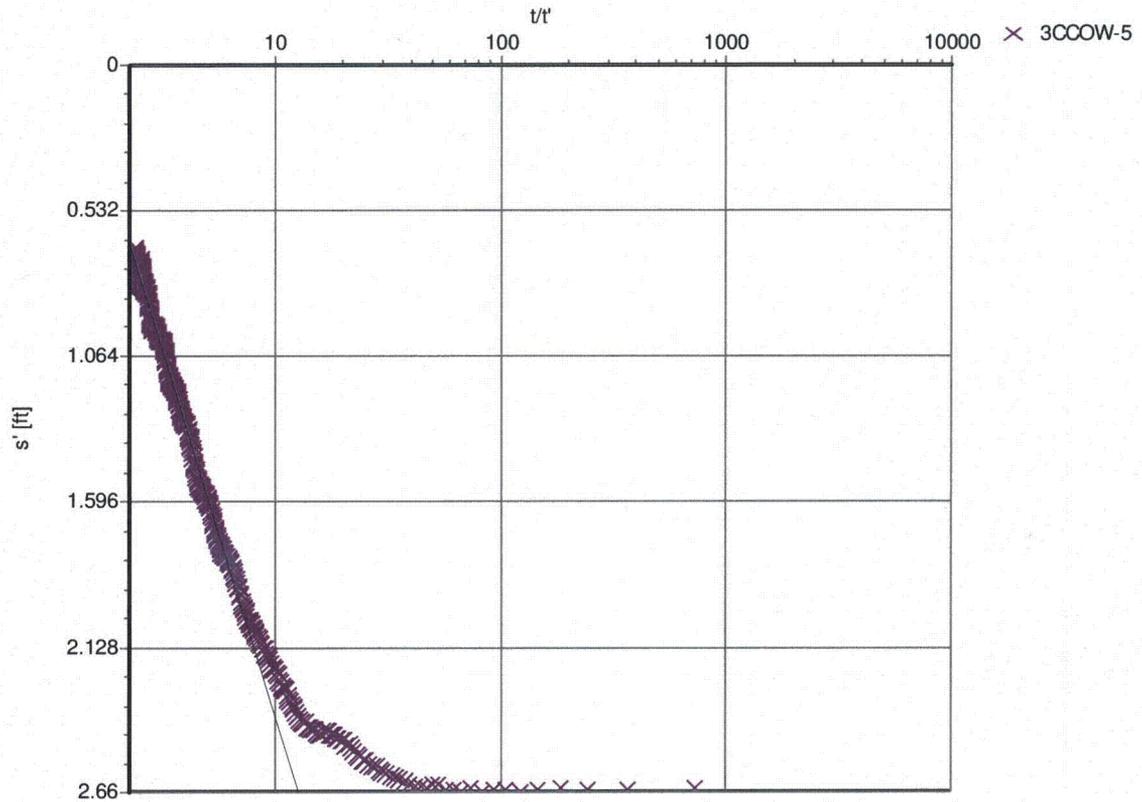
Pumping Test Analysis Report

Project: Three Crow Regional Pump Test

Number: 223-42

Client: Crow Butte Resources, Inc.

Three Crow Regional Pump Test [This Recovery]



Pumping Test: **Three Crow Regional Pump Test**

Analysis Method: **This Recovery**

Analysis Results: Transmissivity: 5.83E+2 [ft²/d] Conductivity: 9.11E+0 [ft/d]

Test parameters: Pumping Well: 3CCPW-2 Aquifer Thickness: 64 [ft]
 Casing radius: 0.19 [ft] Confined Aquifer
 Screen length: 55 [ft]
 Boring radius: 0.33 [ft]
 Discharge Rate: 44.7 [U.S. gal/min]
 Pumping Time: 10980 [min]

Comments:

Evaluated by: KRS/HPD

Evaluation Date: 6/13/2008

APPENDIX D
WATER LEVEL DATA (CDROM)

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Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/7/08 17:00	0	181.10	0.00	191.69	0.00	211.12	0.00	183.91	0.00	232.20	0.00	260.27	0.00
4/7/08 17:15	15	181.11	0.01	272.38	80.69	211.12	0.00	183.93	0.01	232.20	0.00	260.27	0.00
4/7/08 17:30	30	181.11	0.01	276.32	84.63	211.12	0.00	183.95	0.03	232.19	0.00	260.28	0.01
4/7/08 17:45	45	181.11	0.01	279.28	87.60	211.12	0.00	183.99	0.08	232.20	0.00	260.28	0.00
4/7/08 18:00	60	181.09	-0.01	280.91	89.22	211.11	0.00	184.11	0.19	232.19	-0.01	260.27	0.00
4/7/08 18:15	75	181.09	-0.01	281.90	90.21	211.11	0.00	184.22	0.31	232.20	0.00	260.27	0.00
4/7/08 18:30	90	181.10	0.00	283.66	91.97	211.12	0.00	184.37	0.46	232.20	0.00	260.28	0.01
4/7/08 18:45	105	181.08	-0.02	284.41	92.73	211.11	-0.01	184.54	0.63	232.19	0.00	260.26	-0.01
4/7/08 19:00	120	181.10	0.00	285.12	93.43	211.12	0.00	184.71	0.80	232.19	-0.01	260.26	-0.01
4/7/08 19:15	135	181.09	-0.01	285.68	93.99	211.12	0.00	184.89	0.98	232.19	0.00	260.26	-0.01
4/7/08 19:30	150	181.09	-0.01	286.20	94.51	211.14	0.02	185.05	1.13	232.20	0.01	260.27	0.00
4/7/08 19:45	165	181.10	0.00	287.01	95.32	211.15	0.03	185.17	1.26	232.21	0.01	260.26	-0.01
4/7/08 20:00	180	181.10	0.00	287.29	95.60	211.15	0.03	185.31	1.40	232.21	0.02	260.27	0.00
4/7/08 20:15	195	181.10	0.00	287.77	96.08	211.18	0.06	185.43	1.51	232.23	0.04	260.27	0.00
4/7/08 20:30	210	181.10	0.00	287.50	95.82	211.19	0.07	185.54	1.63	232.23	0.04	260.27	0.00
4/7/08 20:45	225	181.10	0.00	287.93	96.25	211.20	0.08	185.67	1.76	232.26	0.07	260.27	0.00
4/7/08 21:00	240	181.11	0.01	288.28	96.59	211.22	0.10	185.80	1.88	232.27	0.07	260.28	0.01
4/7/08 21:15	255	181.10	0.00	288.84	97.16	211.25	0.13	185.90	1.98	232.29	0.09	260.28	0.01
4/7/08 21:30	270	181.11	0.01	288.86	97.17	211.26	0.14	186.00	2.09	232.31	0.11	260.27	0.00
4/7/08 21:45	285	181.12	0.02	289.32	97.63	211.29	0.17	186.13	2.21	232.32	0.13	260.29	0.01
4/7/08 22:00	300	181.10	0.00	289.52	97.83	211.31	0.20	186.23	2.32	232.34	0.14	260.30	0.03
4/7/08 22:15	315	181.12	0.02	290.04	98.35	211.34	0.22	186.34	2.42	232.36	0.17	260.30	0.03
4/7/08 22:30	330	181.12	0.02	289.98	98.29	211.36	0.25	186.44	2.53	232.38	0.19	260.31	0.04
4/7/08 22:45	345	181.11	0.01	290.16	98.47	211.39	0.27	186.54	2.63	232.40	0.21	260.32	0.05
4/7/08 23:00	360	181.11	0.01	290.29	98.60	211.41	0.29	186.63	2.72	232.43	0.24	260.32	0.05
4/7/08 23:15	375	181.12	0.02	290.67	98.99	211.43	0.31	186.73	2.82	232.45	0.26	260.33	0.06
4/7/08 23:30	390	181.11	0.01	290.61	98.93	211.46	0.34	186.81	2.90	232.46	0.28	260.34	0.07
4/7/08 23:45	405	181.11	0.01	290.41	98.73	211.49	0.37	186.90	2.99	232.49	0.29	260.34	0.07
4/8/08 0:00	420	181.11	0.02	290.76	99.07	211.51	0.39	187.00	3.08	232.51	0.31	260.35	0.08
4/8/08 0:15	435	181.13	0.03	290.70	99.02	211.53	0.41	187.09	3.18	232.52	0.33	260.36	0.08
4/8/08 0:30	450	181.13	0.03	291.34	99.65	211.55	0.44	187.16	3.25	232.55	0.36	260.37	0.10
4/8/08 0:45	465	181.13	0.03	291.13	99.44	211.58	0.46	187.25	3.34	232.57	0.37	260.37	0.10
4/8/08 1:00	480	181.13	0.03	291.57	99.89	211.61	0.49	187.33	3.41	232.59	0.40	260.38	0.11
4/8/08 1:15	495	181.14	0.04	291.32	99.64	211.62	0.51	187.41	3.50	232.60	0.41	260.39	0.11
4/8/08 1:30	510	181.12	0.02	291.50	99.82	211.65	0.53	187.48	3.57	232.63	0.43	260.39	0.12
4/8/08 1:45	525	181.12	0.02	291.80	100.11	211.67	0.55	187.55	3.64	232.64	0.44	260.39	0.12
4/8/08 2:00	540	181.12	0.02	291.82	100.13	211.69	0.58	187.63	3.71	232.67	0.47	260.40	0.13
4/8/08 2:15	555	181.12	0.02	292.03	100.35	211.71	0.60	187.70	3.79	232.69	0.49	260.42	0.15
4/8/08 2:30	570	181.11	0.01	291.80	100.11	211.73	0.61	187.77	3.85	232.70	0.50	260.42	0.15
4/8/08 2:45	585	181.12	0.02	292.30	100.62	211.75	0.64	187.83	3.92	232.72	0.52	260.43	0.16
4/8/08 3:00	600	181.12	0.02	292.32	100.64	211.78	0.66	187.90	3.98	232.74	0.54	260.44	0.17
4/8/08 3:15	615	181.12	0.02	292.63	100.94	211.79	0.68	187.96	4.05	232.75	0.56	260.45	0.18
4/8/08 3:30	630	181.12	0.02	292.42	100.73	211.82	0.71	188.03	4.12	232.77	0.58	260.46	0.19
4/8/08 3:45	645	181.12	0.02	292.97	101.29	211.84	0.73	188.09	4.18	232.80	0.60	260.47	0.19
4/8/08 4:00	660	181.10	0.00	292.61	100.92	211.86	0.75	188.15	4.24	232.81	0.62	260.48	0.21
4/8/08 4:15	675	181.11	0.02	292.67	100.99	211.89	0.78	188.21	4.30	232.84	0.65	260.48	0.21
4/8/08 4:30	690	181.12	0.02	292.89	101.20	211.91	0.80	188.28	4.37	232.86	0.67	260.49	0.22
4/8/08 4:45	705	181.12	0.02	292.64	100.95	211.93	0.81	188.33	4.42	232.87	0.68	260.51	0.23
4/8/08 5:00	720	181.12	0.02	292.91	101.23	211.96	0.84	188.39	4.48	232.89	0.70	260.52	0.25
4/8/08 5:15	735	181.11	0.01	292.66	100.98	211.98	0.86	188.44	4.53	232.92	0.72	260.53	0.25
4/8/08 5:30	750	181.13	0.03	293.31	101.63	212.00	0.88	188.50	4.59	232.93	0.74	260.54	0.27
4/8/08 5:45	765	181.13	0.03	292.94	101.25	212.02	0.90	188.55	4.64	232.95	0.76	260.56	0.29
4/8/08 6:00	780	181.12	0.03	293.16	101.47	212.04	0.93	188.61	4.69	232.97	0.77	260.56	0.29
4/8/08 6:15	795	181.13	0.03	293.65	101.97	212.07	0.95	188.66	4.75	232.99	0.80	260.58	0.31
4/8/08 6:30	810	181.13	0.03	293.49	101.80	212.09	0.97	188.70	4.79	233.02	0.82	260.59	0.32

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/8/08 6:45	825	181.13	0.03	293.24	101.56	212.11	0.99	188.75	4.84	233.04	0.84	260.61	0.34
4/8/08 7:00	840	181.12	0.02	293.58	101.89	212.13	1.02	188.81	4.90	233.06	0.86	260.61	0.34
4/8/08 7:15	855	181.13	0.03	293.68	101.99	212.15	1.04	188.86	4.95	233.07	0.88	260.63	0.35
4/8/08 7:30	870	181.14	0.04	293.79	102.10	212.17	1.06	188.91	5.00	233.09	0.89	260.64	0.36
4/8/08 7:45	885	181.12	0.03	293.62	101.94	212.20	1.08	188.95	5.04	233.10	0.91	260.65	0.38
4/8/08 8:00	900	181.14	0.04	293.65	101.97	212.21	1.10	189.00	5.09	233.13	0.93	260.66	0.39
4/8/08 8:15	915	181.15	0.05	293.86	102.17	212.23	1.12	189.05	5.14	233.14	0.95	260.68	0.41
4/8/08 8:30	930	181.15	0.05	294.05	102.37	212.26	1.14	189.09	5.18	233.17	0.97	260.69	0.42
4/8/08 8:45	945	181.15	0.05	294.10	102.42	212.28	1.16	189.14	5.23	233.18	0.98	260.69	0.42
4/8/08 9:00	960	181.14	0.04	294.22	102.53	212.29	1.17	189.18	5.27	233.20	1.00	260.71	0.44
4/8/08 9:15	975	181.16	0.06	294.12	102.43	212.32	1.20	189.22	5.31	233.23	1.03	260.72	0.45
4/8/08 9:30	990	181.15	0.05	293.75	102.06	212.34	1.22	189.27	5.36	233.24	1.04	260.73	0.46
4/8/08 9:45	1,005	181.15	0.05	294.15	102.46	212.36	1.24	189.31	5.40	233.26	1.07	260.75	0.48
4/8/08 10:00	1,020	181.17	0.07	294.38	102.69	212.37	1.26	189.35	5.44	233.28	1.08	260.77	0.50
4/8/08 10:15	1,035	181.18	0.08	294.50	102.81	212.40	1.28	189.39	5.48	233.29	1.10	260.79	0.51
4/8/08 10:30	1,050	181.18	0.08	294.29	102.60	212.42	1.30	189.43	5.52	233.32	1.12	260.79	0.52
4/8/08 10:45	1,065	181.16	0.06	294.46	102.77	212.43	1.31	189.47	5.56	233.33	1.13	260.81	0.54
4/8/08 11:00	1,080	181.17	0.07	294.25	102.56	212.46	1.34	189.51	5.60	233.35	1.16	260.82	0.55
4/8/08 11:15	1,095	181.17	0.07	294.27	102.58	212.48	1.36	189.55	5.63	233.37	1.17	260.83	0.56
4/8/08 11:30	1,110	181.18	0.08	294.57	102.88	212.49	1.38	189.58	5.67	233.38	1.19	260.84	0.57
4/8/08 11:45	1,125	181.19	0.09	294.64	102.95	212.51	1.39	189.62	5.71	233.39	1.20	260.85	0.58
4/8/08 12:00	1,140	181.19	0.09	294.53	102.84	212.53	1.41	189.65	5.74	233.41	1.21	260.86	0.59
4/8/08 12:15	1,155	181.19	0.09	294.50	102.82	212.54	1.43	189.69	5.78	233.42	1.23	260.87	0.60
4/8/08 12:30	1,170	181.20	0.10	294.48	102.79	212.55	1.43	189.72	5.81	233.44	1.25	260.88	0.61
4/8/08 12:45	1,185	181.20	0.10	294.51	102.82	212.57	1.45	189.75	5.84	233.46	1.26	260.89	0.62
4/8/08 13:00	1,200	181.20	0.10	294.93	103.25	212.60	1.48	189.79	5.88	233.47	1.28	260.91	0.64
4/8/08 13:15	1,215	181.20	0.10	294.46	102.77	212.61	1.50	189.82	5.91	233.49	1.29	260.92	0.65
4/8/08 13:30	1,230	181.21	0.11	294.63	102.95	212.62	1.51	189.85	5.94	233.50	1.31	260.93	0.66
4/8/08 13:45	1,245	181.21	0.11	294.78	103.10	212.64	1.53	189.88	5.97	233.52	1.33	260.94	0.67
4/8/08 14:00	1,260	181.20	0.10	295.01	103.33	212.65	1.53	189.91	6.00	233.53	1.34	260.95	0.68
4/8/08 14:15	1,275	181.20	0.10	294.76	103.07	212.67	1.56	189.94	6.03	233.55	1.35	260.96	0.69
4/8/08 14:30	1,290	181.21	0.11	294.94	103.25	212.68	1.57	189.97	6.06	233.57	1.37	260.97	0.70
4/8/08 14:45	1,305	181.20	0.10	295.06	103.37	212.70	1.58	189.99	6.08	233.57	1.37	260.98	0.71
4/8/08 15:00	1,320	181.21	0.11	295.11	103.42	212.72	1.60	190.03	6.11	233.59	1.39	260.99	0.72
4/8/08 15:15	1,335	181.21	0.11	295.37	103.68	212.72	1.60	190.05	6.14	233.59	1.39	260.99	0.72
4/8/08 15:30	1,350	181.20	0.11	295.39	103.70	212.73	1.62	190.08	6.16	233.61	1.41	261.00	0.72
4/8/08 15:45	1,365	181.21	0.11	295.22	103.54	212.74	1.63	190.10	6.19	233.62	1.42	261.02	0.75
4/8/08 16:00	1,380	181.19	0.09	295.29	103.61	212.75	1.64	190.14	6.22	233.63	1.44	261.02	0.75
4/8/08 16:15	1,395	181.20	0.10	295.51	103.83	212.77	1.65	190.15	6.24	233.63	1.44	261.02	0.75
4/8/08 16:30	1,410	181.21	0.11	295.33	103.64	212.78	1.66	190.17	6.26	233.65	1.46	261.03	0.78
4/8/08 16:45	1,425	181.20	0.10	295.49	103.81	212.79	1.67	190.20	6.29	233.65	1.46	261.05	0.78
4/8/08 17:00	1,440	181.20	0.10	295.67	103.98	212.80	1.69	190.22	6.31	233.67	1.47	261.05	0.78
4/8/08 17:15	1,455	181.22	0.12	295.58	103.90	212.82	1.70	190.25	6.34	233.68	1.49	261.06	0.79
4/8/08 17:30	1,470	181.21	0.11	295.48	103.79	212.83	1.71	190.26	6.35	233.70	1.51	261.07	0.80
4/8/08 17:45	1,485	181.21	0.11	295.52	103.83	212.84	1.72	190.29	6.38	233.71	1.52	261.08	0.80
4/8/08 18:00	1,500	181.22	0.12	295.19	103.50	212.85	1.74	190.32	6.41	233.72	1.52	261.09	0.81
4/8/08 18:15	1,515	181.21	0.11	295.73	104.04	212.87	1.75	190.35	6.44	233.73	1.54	261.09	0.82
4/8/08 18:30	1,530	181.22	0.12	295.50	103.82	212.87	1.76	190.36	6.45	233.74	1.54	261.10	0.83
4/8/08 18:45	1,545	181.21	0.12	296.05	104.36	212.88	1.77	190.39	6.47	233.75	1.55	261.11	0.84
4/8/08 19:00	1,560	181.20	0.10	295.56	103.88	212.89	1.78	190.39	6.48	233.77	1.57	261.12	0.85
4/8/08 19:15	1,575	181.20	0.10	295.93	104.24	212.90	1.79	190.43	6.52	233.77	1.58	261.12	0.85
4/8/08 19:30	1,590	181.22	0.12	295.87	104.18	212.91	1.80	190.44	6.53	233.78	1.58	261.13	0.86
4/8/08 19:45	1,605	181.22	0.12	295.90	104.22	212.93	1.81	190.47	6.56	233.80	1.60	261.15	0.88
4/8/08 20:00	1,620	181.22	0.12	295.88	104.20	212.93	1.81	190.49	6.57	233.81	1.61	261.15	0.87
4/8/08 20:15	1,635	181.23	0.13	296.20	104.52	212.95	1.84	190.52	6.60	233.82	1.63	261.16	0.88

Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/8/08 20:30	1,650	181.22	0.12	296.20	104.51	212.96	1.85	190.54	6.63	233.84	1.64	261.17	0.90
4/8/08 20:45	1,665	181.23	0.14	296.29	104.60	212.97	1.85	190.55	6.64	233.84	1.65	261.18	0.91
4/8/08 21:00	1,680	181.24	0.14	296.25	104.56	212.99	1.88	190.58	6.67	233.85	1.65	261.19	0.92
4/8/08 21:15	1,695	181.23	0.14	296.47	104.79	213.00	1.89	190.60	6.69	233.87	1.68	261.20	0.93
4/8/08 21:30	1,710	181.24	0.14	296.29	104.60	213.02	1.90	190.62	6.71	233.87	1.68	261.20	0.93
4/8/08 21:45	1,725	181.24	0.14	296.61	104.93	213.03	1.91	190.64	6.73	233.89	1.70	261.22	0.95
4/8/08 22:00	1,740	181.25	0.15	296.23	104.55	213.03	1.91	190.65	6.74	233.89	1.70	261.22	0.95
4/8/08 22:15	1,755	181.25	0.15	296.51	104.83	213.04	1.92	190.67	6.76	233.91	1.71	261.23	0.96
4/8/08 22:30	1,770	181.24	0.14	296.21	104.53	213.06	1.94	190.70	6.79	233.91	1.72	261.23	0.96
4/8/08 22:45	1,785	181.24	0.14	296.86	105.17	213.07	1.95	190.71	6.80	233.92	1.73	261.24	0.96
4/8/08 23:00	1,800	181.24	0.15	296.48	104.79	213.08	1.97	190.73	6.82	233.94	1.74	261.26	0.99
4/8/08 23:15	1,815	181.25	0.15	296.57	104.89	213.09	1.97	190.76	6.84	233.95	1.75	261.27	0.99
4/8/08 23:30	1,830	181.26	0.16	296.47	104.78	213.10	1.98	190.76	6.85	233.96	1.77	261.29	1.01
4/8/08 23:45	1,845	181.26	0.16	296.70	105.02	213.11	1.99	190.79	6.88	233.98	1.78	261.29	1.02
4/9/08 0:00	1,860	181.25	0.16	296.57	104.88	213.12	2.00	190.81	6.90	233.98	1.78	261.29	1.02
4/9/08 0:15	1,875	181.26	0.16	296.50	104.82	213.13	2.01	190.82	6.91	234.00	1.80	261.29	1.02
4/9/08 0:30	1,890	181.27	0.17	296.42	104.73	213.15	2.03	190.84	6.93	234.00	1.80	261.30	1.03
4/9/08 0:45	1,905	181.26	0.16	296.85	105.16	213.15	2.03	190.87	6.96	234.01	1.81	261.32	1.04
4/9/08 1:00	1,920	181.26	0.16	296.55	104.86	213.15	2.03	190.87	6.96	234.02	1.82	261.32	1.05
4/9/08 1:15	1,935	181.28	0.18	296.58	104.89	213.17	2.05	190.90	6.99	234.03	1.84	261.33	1.06
4/9/08 1:30	1,950	181.27	0.17	296.72	105.03	213.17	2.06	190.92	7.01	234.03	1.84	261.34	1.07
4/9/08 1:45	1,965	181.28	0.18	297.08	105.39	213.19	2.07	190.93	7.02	234.04	1.85	261.35	1.08
4/9/08 2:00	1,980	181.26	0.17	296.84	105.15	213.18	2.07	190.94	7.03	234.06	1.86	261.35	1.08
4/9/08 2:15	1,995	181.27	0.17	296.94	105.25	213.20	2.08	190.97	7.06	234.07	1.87	261.35	1.08
4/9/08 2:30	2,010	181.27	0.17	296.58	104.90	213.21	2.09	190.98	7.07	234.07	1.87	261.35	1.08
4/9/08 2:45	2,025	181.29	0.19	297.18	105.49	213.22	2.10	190.99	7.08	234.07	1.87	261.36	1.09
4/9/08 3:00	2,040	181.27	0.17	296.93	105.24	213.23	2.11	191.01	7.10	234.08	1.89	261.37	1.10
4/9/08 3:15	2,055	181.27	0.17	296.98	105.30	213.24	2.12	191.02	7.11	234.09	1.89	261.38	1.11
4/9/08 3:30	2,070	181.29	0.19	296.96	105.27	213.24	2.13	191.04	7.13	234.09	1.90	261.39	1.12
4/9/08 3:45	2,085	181.29	0.19	296.70	105.01	213.25	2.14	191.05	7.14	234.10	1.91	261.39	1.11
4/9/08 4:00	2,100	181.29	0.19	296.89	105.21	213.26	2.14	191.07	7.16	234.11	1.92	261.39	1.12
4/9/08 4:15	2,115	181.28	0.18	297.04	105.35	213.26	2.14	191.07	7.16	234.12	1.92	261.40	1.13
4/9/08 4:30	2,130	181.28	0.18	297.10	105.41	213.27	2.16	191.09	7.18	234.13	1.93	261.41	1.14
4/9/08 4:45	2,145	181.29	0.19	297.22	105.54	213.28	2.16	191.11	7.20	234.14	1.94	261.41	1.14
4/9/08 5:00	2,160	181.28	0.18	297.53	105.84	213.29	2.17	191.12	7.20	234.15	1.95	261.42	1.15
4/9/08 5:15	2,175	181.29	0.19	297.09	105.41	213.28	2.17	191.13	7.22	234.15	1.96	261.42	1.14
4/9/08 5:30	2,190	181.29	0.19	297.22	105.54	213.30	2.18	191.15	7.23	234.15	1.96	261.43	1.16
4/9/08 5:45	2,205	181.29	0.19	297.43	105.74	213.30	2.18	191.15	7.24	234.16	1.96	261.43	1.16
4/9/08 6:00	2,220	181.29	0.19	297.36	105.68	213.31	2.20	191.17	7.26	234.17	1.97	261.43	1.16
4/9/08 6:15	2,235	181.29	0.19	297.25	105.57	213.32	2.20	191.18	7.27	234.17	1.98	261.45	1.18
4/9/08 6:30	2,250	181.30	0.20	297.42	105.73	213.32	2.20	191.20	7.29	234.18	1.99	261.45	1.18
4/9/08 6:45	2,265	181.29	0.19	297.54	105.85	213.33	2.22	191.21	7.30	234.19	2.00	261.45	1.18
4/9/08 7:00	2,280	181.30	0.20	297.48	105.80	213.34	2.22	191.22	7.31	234.20	2.01	261.47	1.20
4/9/08 7:15	2,295	181.30	0.20	297.17	105.48	213.36	2.24	191.23	7.32	234.20	2.01	261.47	1.20
4/9/08 7:30	2,310	181.29	0.19	297.33	105.64	213.36	2.24	191.25	7.34	234.22	2.02	261.48	1.21
4/9/08 7:45	2,325	181.29	0.19	297.55	105.86	213.36	2.25	191.27	7.35	234.24	2.04	261.49	1.22
4/9/08 8:00	2,340	181.30	0.20	297.28	105.59	213.37	2.26	191.28	7.37	234.23	2.04	261.49	1.22
4/9/08 8:15	2,355	181.29	0.20	297.65	105.96	213.38	2.26	191.29	7.38	234.24	2.05	261.49	1.22
4/9/08 8:30	2,370	181.30	0.20	297.66	105.97	213.39	2.27	191.30	7.39	234.25	2.05	261.50	1.23
4/9/08 8:45	2,385	181.30	0.20	297.78	106.09	213.40	2.28	191.30	7.39	234.25	2.06	261.51	1.24
4/9/08 9:00	2,400	181.31	0.22	297.67	105.98	213.40	2.28	191.32	7.41	234.25	2.06	261.51	1.24
4/9/08 9:15	2,415	181.31	0.21	297.55	105.86	213.41	2.29	191.34	7.42	234.27	2.08	261.52	1.25
4/9/08 9:30	2,430	181.32	0.22	297.01	105.32	213.42	2.30	191.34	7.43	234.27	2.07	261.52	1.25
4/9/08 9:45	2,445	181.31	0.21	297.56	105.87	213.41	2.30	191.35	7.44	234.27	2.08	261.53	1.26
4/9/08 10:00	2,460	181.33	0.23	297.64	105.95	213.43	2.32	191.36	7.45	234.28	2.08	261.53	1.26

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/9/08 10:15	2,475	181.33	0.23	297.24	105.56	213.44	2.32	191.38	7.47	234.30	2.10	261.54	1.27
4/9/08 10:30	2,490	181.33	0.23	297.87	106.18	213.45	2.33	191.40	7.49	234.31	2.12	261.56	1.28
4/9/08 10:45	2,505	181.33	0.23	297.27	105.58	213.46	2.35	191.41	7.50	234.32	2.13	261.57	1.30
4/9/08 11:00	2,520	181.35	0.25	297.59	105.90	213.47	2.35	191.43	7.51	234.32	2.13	261.57	1.30
4/9/08 11:15	2,535	181.33	0.23	297.98	106.30	213.48	2.36	191.44	7.53	234.33	2.13	261.58	1.31
4/9/08 11:30	2,550	181.35	0.25	297.66	105.97	213.48	2.37	191.45	7.53	234.34	2.15	261.59	1.31
4/9/08 11:45	2,565	181.35	0.26	297.81	106.12	213.50	2.38	191.47	7.56	234.36	2.17	261.59	1.32
4/9/08 12:00	2,580	181.36	0.26	297.64	105.96	213.50	2.39	191.48	7.57	234.36	2.16	261.61	1.33
4/9/08 12:15	2,595	181.37	0.27	297.72	106.03	213.51	2.39	191.49	7.58	234.37	2.18	261.60	1.33
4/9/08 12:30	2,610	181.37	0.27	298.07	106.38	213.52	2.40	191.51	7.60	234.38	2.19	261.62	1.35
4/9/08 12:45	2,625	181.37	0.27	297.89	106.21	213.52	2.41	191.51	7.60	234.38	2.19	261.62	1.35
4/9/08 13:00	2,640	181.37	0.27	297.44	105.76	213.53	2.41	191.53	7.62	234.39	2.20	261.63	1.36
4/9/08 13:15	2,655	181.39	0.29	297.82	106.13	213.55	2.43	191.54	7.63	234.41	2.21	261.64	1.37
4/9/08 13:30	2,670	181.38	0.28	298.01	106.33	213.55	2.44	191.55	7.64	234.41	2.22	261.65	1.38
4/9/08 13:45	2,685	181.39	0.29	297.71	106.02	213.56	2.44	191.56	7.65	234.42	2.23	261.65	1.38
4/9/08 14:00	2,700	181.39	0.29	298.00	106.32	213.57	2.45	191.58	7.66	234.43	2.24	261.66	1.39
4/9/08 14:15	2,715	181.39	0.29	297.80	106.11	213.57	2.46	191.58	7.67	234.43	2.23	261.66	1.39
4/9/08 14:30	2,730	181.38	0.28	297.43	105.74	213.58	2.46	191.59	7.68	234.43	2.24	261.67	1.40
4/9/08 14:45	2,745	181.39	0.29	297.58	105.89	213.58	2.47	191.60	7.69	234.44	2.25	261.67	1.40
4/9/08 15:00	2,760	181.40	0.30	297.90	106.21	213.59	2.47	191.60	7.69	234.45	2.25	261.68	1.41
4/9/08 15:15	2,775	181.39	0.29	297.92	106.23	213.60	2.48	191.63	7.71	234.45	2.26	261.69	1.41
4/9/08 15:30	2,790	181.40	0.30	298.24	106.56	213.59	2.48	191.63	7.72	234.46	2.26	261.69	1.41
4/9/08 15:45	2,805	181.39	0.29	297.91	106.23	213.61	2.49	191.64	7.73	234.46	2.27	261.69	1.42
4/9/08 16:00	2,820	181.40	0.30	297.89	106.20	213.61	2.50	191.64	7.73	234.47	2.28	261.70	1.43
4/9/08 16:15	2,835	181.40	0.30	297.98	106.29	213.61	2.49	191.65	7.74	234.48	2.28	261.71	1.44
4/9/08 16:30	2,850	181.39	0.29	297.63	105.95	213.62	2.51	191.66	7.75	234.47	2.28	261.71	1.43
4/9/08 16:45	2,865	181.40	0.30	297.97	106.29	213.63	2.51	191.67	7.76	234.48	2.29	261.71	1.44
4/9/08 17:00	2,880	181.39	0.29	298.09	106.40	213.63	2.51	191.68	7.77	234.49	2.29	261.71	1.44
4/9/08 17:15	2,895	181.41	0.31	297.75	106.07	213.64	2.52	191.69	7.78	234.50	2.30	261.71	1.44
4/9/08 17:30	2,910	181.40	0.31	297.78	106.10	213.64	2.52	191.70	7.78	234.51	2.31	261.72	1.45
4/9/08 17:45	2,925	181.41	0.31	298.02	106.33	213.64	2.53	191.71	7.80	234.50	2.31	261.72	1.45
4/9/08 18:00	2,940	181.41	0.31	298.32	106.63	213.65	2.53	191.72	7.81	234.51	2.32	261.72	1.45
4/9/08 18:15	2,955	181.40	0.30	298.40	106.71	213.64	2.53	191.71	7.79	234.51	2.31	261.72	1.45
4/9/08 18:30	2,970	181.40	0.30	298.07	106.38	213.65	2.53	191.73	7.81	234.51	2.32	261.73	1.46
4/9/08 18:45	2,985	181.41	0.31	298.29	106.60	213.66	2.54	191.73	7.81	234.53	2.33	261.73	1.46
4/9/08 19:00	3,000	181.41	0.31	298.21	106.52	213.66	2.54	191.74	7.82	234.53	2.33	261.74	1.46
4/9/08 19:15	3,015	181.40	0.30	298.38	106.69	213.67	2.55	191.74	7.83	234.53	2.33	261.74	1.47
4/9/08 19:30	3,030	181.41	0.31	298.12	106.44	213.67	2.55	191.75	7.84	234.53	2.34	261.74	1.47
4/9/08 19:45	3,045	181.41	0.31	298.47	106.78	213.68	2.56	191.76	7.84	234.53	2.33	261.75	1.48
4/9/08 20:00	3,060	181.43	0.33	298.48	106.79	213.69	2.57	191.77	7.86	234.54	2.35	261.76	1.49
4/9/08 20:15	3,075	181.43	0.33	298.41	106.72	213.69	2.57	191.78	7.87	234.55	2.36	261.76	1.49
4/9/08 20:30	3,090	181.43	0.33	298.41	106.72	213.70	2.58	191.79	7.88	234.56	2.37	261.78	1.50
4/9/08 20:45	3,105	181.43	0.34	298.62	106.93	213.71	2.60	191.79	7.88	234.58	2.38	261.78	1.51
4/9/08 21:00	3,120	181.44	0.34	298.55	106.86	213.72	2.60	191.81	7.90	234.58	2.39	261.79	1.51
4/9/08 21:15	3,135	181.45	0.35	298.52	106.84	213.72	2.61	191.81	7.90	234.59	2.39	261.79	1.52
4/9/08 21:30	3,150	181.45	0.35	298.74	107.06	213.73	2.61	191.83	7.91	234.59	2.39	261.79	1.52
4/9/08 21:45	3,165	181.45	0.35	298.78	107.09	213.72	2.61	191.83	7.92	234.59	2.40	261.80	1.53
4/9/08 22:00	3,180	181.45	0.35	298.27	106.58	213.74	2.62	191.84	7.93	234.60	2.41	261.80	1.53
4/9/08 22:15	3,195	181.45	0.35	298.78	107.09	213.74	2.63	191.85	7.94	234.60	2.41	261.80	1.53
4/9/08 22:30	3,210	181.44	0.34	298.61	106.93	213.75	2.63	191.86	7.95	234.61	2.42	261.81	1.54
4/9/08 22:45	3,225	181.44	0.34	298.46	106.78	213.75	2.63	191.87	7.95	234.62	2.43	261.82	1.55
4/9/08 23:00	3,240	181.45	0.35	298.80	107.12	213.76	2.64	191.86	7.95	234.62	2.42	261.82	1.55
4/9/08 23:15	3,255	181.45	0.36	298.63	106.95	213.76	2.64	191.88	7.97	234.62	2.43	261.82	1.55
4/9/08 23:30	3,270	181.45	0.35	298.69	107.01	213.76	2.64	191.88	7.96	234.63	2.43	261.83	1.56
4/9/08 23:45	3,285	181.46	0.36	298.56	106.87	213.76	2.65	191.89	7.98	234.64	2.44	261.84	1.56

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/10/08 0:00	3,300	181.45	0.35	298.88	107.19	213.77	2.65	191.90	7.99	234.64	2.44	261.83	1.56
4/10/08 0:15	3,315	181.46	0.36	298.68	106.99	213.77	2.65	191.90	7.98	234.64	2.45	261.85	1.58
4/10/08 0:30	3,330	181.47	0.37	298.78	107.09	213.78	2.67	191.90	7.99	234.64	2.45	261.85	1.58
4/10/08 0:45	3,345	181.45	0.35	299.16	107.47	213.79	2.67	191.92	8.01	234.66	2.46	261.85	1.58
4/10/08 1:00	3,360	181.46	0.36	299.05	107.37	213.78	2.66	191.92	8.01	234.65	2.46	261.86	1.58
4/10/08 1:15	3,375	181.47	0.37	298.92	107.23	213.80	2.68	191.94	8.03	234.67	2.47	261.86	1.59
4/10/08 1:30	3,390	181.47	0.38	298.80	107.11	213.79	2.68	191.95	8.04	234.67	2.47	261.86	1.59
4/10/08 1:45	3,405	181.48	0.38	298.91	107.23	213.80	2.69	191.94	8.03	234.67	2.48	261.87	1.59
4/10/08 2:00	3,420	181.46	0.36	298.83	107.14	213.80	2.69	191.95	8.04	234.68	2.48	261.88	1.60
4/10/08 2:15	3,435	181.46	0.36	298.80	107.11	213.80	2.68	191.96	8.05	234.67	2.48	261.87	1.60
4/10/08 2:30	3,450	181.47	0.38	299.12	107.43	213.81	2.69	191.96	8.05	234.67	2.48	261.86	1.59
4/10/08 2:45	3,465	181.47	0.37	299.02	107.34	213.81	2.69	191.96	8.05	234.68	2.48	261.87	1.60
4/10/08 3:00	3,480	181.46	0.36	299.24	107.55	213.81	2.70	191.98	8.07	234.69	2.50	261.88	1.61
4/10/08 3:15	3,495	181.48	0.38	298.87	107.18	213.82	2.71	191.98	8.07	234.70	2.50	261.87	1.60
4/10/08 3:30	3,510	181.48	0.38	299.16	107.47	213.83	2.71	191.99	8.08	234.71	2.51	261.89	1.62
4/10/08 3:45	3,525	181.48	0.38	299.20	107.52	213.84	2.72	192.00	8.09	234.71	2.51	261.90	1.63
4/10/08 4:00	3,540	181.48	0.38	299.22	107.54	213.84	2.73	192.00	8.09	234.72	2.52	261.90	1.63
4/10/08 4:15	3,555	181.49	0.39	299.06	107.37	213.85	2.73	192.01	8.10	234.71	2.52	261.90	1.63
4/10/08 4:30	3,570	181.48	0.38	299.28	107.59	213.84	2.72	192.02	8.11	234.72	2.53	261.90	1.63
4/10/08 4:45	3,585	181.49	0.39	299.26	107.57	213.85	2.73	192.02	8.11	234.72	2.53	261.92	1.64
4/10/08 5:00	3,600	181.48	0.38	299.21	107.52	213.85	2.73	192.02	8.11	234.72	2.52	261.91	1.63
4/10/08 5:15	3,615	181.48	0.38	299.12	107.43	213.85	2.74	192.03	8.12	234.72	2.53	261.91	1.64
4/10/08 5:30	3,630	181.49	0.39	299.16	107.47	213.85	2.74	192.03	8.12	234.72	2.53	261.91	1.64
4/10/08 5:45	3,645	181.49	0.39	299.31	107.62	213.86	2.74	192.04	8.13	234.72	2.53	261.91	1.64
4/10/08 6:00	3,660	181.49	0.39	299.24	107.55	213.86	2.74	192.04	8.13	234.74	2.54	261.91	1.64
4/10/08 6:15	3,675	181.49	0.39	299.15	107.46	213.86	2.75	192.05	8.14	234.74	2.55	261.92	1.65
4/10/08 6:30	3,690	181.48	0.38	299.21	107.52	213.87	2.75	192.06	8.14	234.75	2.55	261.93	1.66
4/10/08 6:45	3,705	181.50	0.40	299.48	107.79	213.87	2.76	192.06	8.15	234.75	2.56	261.92	1.65
4/10/08 7:00	3,720	181.49	0.39	299.62	107.93	213.87	2.76	192.07	8.16	234.74	2.55	261.93	1.66
4/10/08 7:15	3,735	181.50	0.40	299.28	107.59	213.88	2.76	192.08	8.16	234.75	2.56	261.94	1.67
4/10/08 7:30	3,750	181.51	0.41	299.39	107.70	213.89	2.77	192.08	8.17	234.76	2.56	261.94	1.67
4/10/08 7:45	3,765	181.51	0.41	299.52	107.83	213.89	2.78	192.09	8.18	234.76	2.57	261.94	1.67
4/10/08 8:00	3,780	181.50	0.40	299.45	107.76	213.89	2.77	192.09	8.18	234.76	2.57	261.95	1.68
4/10/08 8:15	3,795	181.50	0.40	299.45	107.76	213.89	2.77	192.09	8.18	234.77	2.57	261.95	1.68
4/10/08 8:30	3,810	181.50	0.40	299.42	107.73	213.90	2.78	192.10	8.19	234.77	2.58	261.95	1.68
4/10/08 8:45	3,825	181.51	0.41	299.18	107.49	213.90	2.79	192.10	8.19	234.77	2.58	261.96	1.69
4/10/08 9:00	3,840	181.52	0.42	299.76	108.08	213.91	2.79	192.12	8.21	234.78	2.58	261.96	1.69
4/10/08 9:15	3,855	181.52	0.42	299.27	107.59	213.91	2.80	192.12	8.21	234.79	2.59	261.97	1.69
4/10/08 9:30	3,870	181.52	0.42	299.42	107.73	213.92	2.80	192.13	8.22	234.79	2.60	261.97	1.70
4/10/08 9:45	3,885	181.53	0.43	299.49	107.80	213.92	2.81	192.14	8.23	234.80	2.60	261.98	1.70
4/10/08 10:00	3,900	181.53	0.43	299.81	108.12	213.92	2.81	192.14	8.23	234.81	2.62	261.98	1.71
4/10/08 10:15	3,915	181.52	0.42	299.41	107.72	213.94	2.82	192.15	8.24	234.81	2.61	261.98	1.70
4/10/08 10:30	3,930	181.53	0.43	299.90	108.21	213.94	2.82	192.15	8.24	234.81	2.61	261.99	1.71
4/10/08 10:45	3,945	181.54	0.44	299.72	108.03	213.95	2.83	192.16	8.25	234.82	2.63	261.99	1.72
4/10/08 11:00	3,960	181.54	0.44	299.94	108.25	213.95	2.83	192.17	8.26	234.83	2.63	261.99	1.72
4/10/08 11:15	3,975	181.53	0.43	299.94	108.25	213.96	2.84	192.17	8.26	234.83	2.64	262.00	1.72
4/10/08 11:30	3,990	181.55	0.45	299.78	108.09	213.96	2.85	192.19	8.27	234.84	2.64	262.01	1.73
4/10/08 11:45	4,005	181.54	0.44	299.93	108.24	213.96	2.85	192.19	8.28	234.84	2.64	262.01	1.74
4/10/08 12:00	4,020	181.55	0.45	299.73	108.05	213.97	2.85	192.19	8.28	234.85	2.65	262.02	1.75
4/10/08 12:15	4,035	181.55	0.45	300.04	108.35	213.97	2.85	192.19	8.28	234.84	2.65	262.02	1.75
4/10/08 12:30	4,050	181.55	0.45	300.07	108.38	213.97	2.85	192.21	8.30	234.84	2.65	262.02	1.75
4/10/08 12:45	4,065	181.55	0.45	299.79	108.11	213.98	2.86	192.20	8.29	234.85	2.65	262.02	1.75
4/10/08 13:00	4,080	181.55	0.45	300.01	108.32	213.98	2.86	192.22	8.31	234.87	2.67	262.04	1.77
4/10/08 13:15	4,095	181.57	0.47	299.81	108.12	213.99	2.87	192.22	8.31	234.87	2.67	262.04	1.77
4/10/08 13:30	4,110	181.56	0.47	299.78	108.09	213.99	2.88	192.24	8.32	234.86	2.67	262.04	1.77

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/10/08 13:45	4,125	181.57	0.47	299.97	108.28	214.00	2.88	192.24	8.33	234.88	2.68	262.04	1.77
4/10/08 14:00	4,140	181.57	0.48	299.29	107.60	214.00	2.89	192.25	8.33	234.87	2.68	262.04	1.77
4/10/08 14:15	4,155	181.58	0.48	299.79	108.10	214.01	2.89	192.25	8.34	234.88	2.68	262.05	1.78
4/10/08 14:30	4,170	181.58	0.48	299.86	108.17	214.01	2.90	192.26	8.35	234.88	2.69	262.05	1.78
4/10/08 14:45	4,185	181.58	0.48	299.65	107.97	214.02	2.90	192.25	8.34	234.88	2.69	262.05	1.78
4/10/08 15:00	4,200	181.58	0.48	299.94	108.26	214.02	2.91	192.27	8.36	234.90	2.71	262.06	1.78
4/10/08 15:15	4,215	181.59	0.49	300.14	108.45	214.02	2.91	192.27	8.36	234.90	2.70	262.07	1.79
4/10/08 15:30	4,230	181.58	0.48	299.87	108.19	214.03	2.91	192.28	8.37	234.90	2.71	262.07	1.80
4/10/08 15:45	4,245	181.59	0.49	299.68	107.99	214.03	2.92	192.28	8.36	234.90	2.71	262.07	1.80
4/10/08 16:00	4,260	181.58	0.48	299.84	108.15	214.04	2.92	192.29	8.38	234.90	2.71	262.08	1.81
4/10/08 16:15	4,275	181.59	0.49	299.94	108.25	214.04	2.93	192.30	8.39	234.91	2.72	262.09	1.82
4/10/08 16:30	4,290	181.60	0.50	299.65	107.97	214.05	2.93	192.30	8.39	234.92	2.72	262.10	1.83
4/10/08 16:45	4,305	181.60	0.50	299.49	107.81	214.05	2.93	192.32	8.41	234.92	2.73	262.10	1.83
4/10/08 17:00	4,320	181.59	0.50	299.52	107.83	214.05	2.93	192.31	8.39	234.93	2.73	262.11	1.83
4/10/08 17:15	4,335	181.61	0.51	299.53	107.85	214.06	2.94	192.30	8.39	234.93	2.74	262.11	1.84
4/10/08 17:30	4,350	181.61	0.51	299.78	108.09	214.06	2.94	192.32	8.41	234.93	2.73	262.12	1.84
4/10/08 17:45	4,365	181.61	0.51	299.47	107.78	214.07	2.95	192.33	8.42	234.94	2.75	262.12	1.85
4/10/08 18:00	4,380	181.62	0.52	299.38	107.69	214.07	2.95	192.34	8.42	234.95	2.75	262.13	1.85
4/10/08 18:15	4,395	181.62	0.52	299.57	107.89	214.08	2.96	192.33	8.42	234.96	2.76	262.13	1.86
4/10/08 18:30	4,410	181.62	0.52	299.53	107.85	214.08	2.96	192.34	8.43	234.95	2.75	262.13	1.86
4/10/08 18:45	4,425	181.62	0.52	299.60	107.91	214.08	2.96	192.34	8.43	234.96	2.76	262.13	1.86
4/10/08 19:00	4,440	181.62	0.52	299.63	107.95	214.09	2.97	192.34	8.43	234.96	2.76	262.13	1.86
4/10/08 19:15	4,455	181.61	0.51	299.83	108.14	214.09	2.97	192.35	8.44	234.97	2.77	262.13	1.86
4/10/08 19:30	4,470	181.63	0.53	299.63	107.94	214.09	2.98	192.36	8.45	234.96	2.77	262.13	1.86
4/10/08 19:45	4,485	181.63	0.53	299.81	108.12	214.09	2.98	192.35	8.44	234.97	2.78	262.14	1.87
4/10/08 20:00	4,500	181.63	0.53	299.88	108.19	214.10	2.98	192.37	8.46	234.97	2.77	262.14	1.87
4/10/08 20:15	4,515	181.63	0.53	299.87	108.18	214.11	2.99	192.36	8.45	234.98	2.78	262.15	1.88
4/10/08 20:30	4,530	181.63	0.53	299.93	108.24	214.10	2.99	192.36	8.45	234.97	2.78	262.15	1.88
4/10/08 20:45	4,545	181.64	0.54	300.06	108.37	214.11	2.99	192.37	8.46	234.98	2.78	262.15	1.88
4/10/08 21:00	4,560	181.64	0.54	299.56	107.87	214.11	2.99	192.38	8.47	234.98	2.79	262.16	1.89
4/10/08 21:15	4,575	181.64	0.54	300.06	108.37	214.12	3.00	192.38	8.47	234.98	2.78	262.17	1.90
4/10/08 21:30	4,590	181.64	0.54	299.83	108.15	214.11	2.99	192.39	8.48	234.99	2.80	262.16	1.89
4/10/08 21:45	4,605	181.64	0.54	300.16	108.48	214.11	3.00	192.38	8.47	234.99	2.79	262.16	1.89
4/10/08 22:00	4,620	181.64	0.55	300.20	108.52	214.11	3.00	192.39	8.47	235.00	2.80	262.17	1.90
4/10/08 22:15	4,635	181.64	0.54	300.03	108.35	214.13	3.01	192.40	8.48	235.00	2.80	262.17	1.90
4/10/08 22:30	4,650	181.65	0.56	300.36	108.67	214.13	3.01	192.40	8.48	235.01	2.81	262.18	1.91
4/10/08 22:45	4,665	181.65	0.55	300.31	108.62	214.13	3.02	192.39	8.48	235.02	2.82	262.17	1.90
4/10/08 23:00	4,680	181.65	0.55	300.15	108.46	214.14	3.02	192.41	8.50	235.00	2.80	262.17	1.90
4/10/08 23:15	4,695	181.64	0.54	300.28	108.59	214.13	3.02	192.42	8.51	235.01	2.82	262.18	1.91
4/10/08 23:30	4,710	181.65	0.55	300.23	108.54	214.14	3.02	192.41	8.50	235.01	2.81	262.19	1.92
4/10/08 23:45	4,725	181.64	0.55	300.29	108.60	214.14	3.02	192.42	8.51	235.02	2.83	262.18	1.91
4/11/08 0:00	4,740	181.65	0.56	300.13	108.44	214.14	3.03	192.43	8.51	235.01	2.82	262.18	1.91
4/11/08 0:15	4,755	181.66	0.56	300.12	108.43	214.14	3.02	192.43	8.52	235.02	2.82	262.20	1.92
4/11/08 0:30	4,770	181.66	0.56	299.95	108.27	214.14	3.03	192.44	8.53	235.03	2.84	262.19	1.92
4/11/08 0:45	4,785	181.65	0.55	300.01	108.32	214.16	3.04	192.44	8.53	235.03	2.83	262.19	1.92
4/11/08 1:00	4,800	181.66	0.56	300.29	108.61	214.16	3.04	192.45	8.54	235.03	2.84	262.19	1.92
4/11/08 1:15	4,815	181.67	0.58	299.93	108.24	214.16	3.04	192.46	8.54	235.03	2.84	262.20	1.93
4/11/08 1:30	4,830	181.67	0.58	299.97	108.28	214.17	3.05	192.46	8.55	235.04	2.85	262.21	1.93
4/11/08 1:45	4,845	181.68	0.58	299.98	108.29	214.16	3.05	192.46	8.54	235.05	2.85	262.21	1.94
4/11/08 2:00	4,860	181.67	0.57	300.18	108.49	214.18	3.06	192.48	8.56	235.05	2.85	262.21	1.94
4/11/08 2:15	4,875	181.68	0.58	300.30	108.61	214.17	3.05	192.48	8.57	235.06	2.86	262.22	1.94
4/11/08 2:30	4,890	181.68	0.58	300.55	108.86	214.18	3.07	192.48	8.57	235.05	2.86	262.22	1.95
4/11/08 2:45	4,905	181.68	0.59	300.43	108.74	214.19	3.07	192.49	8.58	235.06	2.86	262.23	1.96
4/11/08 3:00	4,920	181.69	0.59	300.44	108.76	214.19	3.07	192.49	8.57	235.07	2.86	262.24	1.96
4/11/08 3:15	4,935	181.68	0.58	300.06	108.37	214.19	3.07	192.49	8.58	235.07	2.87	262.23	1.96

Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/11/08 3:30	4,950	181.70	0.60	300.11	108.42	214.20	3.08	192.51	8.60	235.08	2.88	262.24	1.97
4/11/08 3:45	4,965	181.70	0.60	300.18	108.50	214.20	3.09	192.50	8.59	235.08	2.89	262.24	1.97
4/11/08 4:00	4,980	181.70	0.60	300.54	108.86	214.21	3.10	192.51	8.60	235.09	2.89	262.24	1.97
4/11/08 4:15	4,995	181.71	0.61	300.56	108.88	214.22	3.10	192.53	8.61	235.09	2.90	262.25	1.98
4/11/08 4:30	5,010	181.71	0.61	300.18	108.50	214.23	3.11	192.53	8.62	235.10	2.91	262.25	1.98
4/11/08 4:45	5,025	181.70	0.60	300.19	108.50	214.22	3.10	192.52	8.61	235.11	2.91	262.26	1.99
4/11/08 5:00	5,040	181.71	0.61	300.21	108.52	214.22	3.11	192.53	8.62	235.10	2.91	262.27	2.00
4/11/08 5:15	5,055	181.72	0.62	300.51	108.83	214.23	3.12	192.54	8.63	235.11	2.92	262.27	2.00
4/11/08 5:30	5,070	181.73	0.63	300.28	108.59	214.24	3.12	192.55	8.64	235.12	2.92	262.28	2.01
4/11/08 5:45	5,085	181.73	0.63	300.47	108.78	214.24	3.12	192.55	8.64	235.11	2.92	262.27	2.00
4/11/08 6:00	5,100	181.73	0.63	300.59	108.90	214.25	3.13	192.56	8.65	235.12	2.93	262.28	2.01
4/11/08 6:15	5,115	181.72	0.63	300.45	108.76	214.25	3.13	192.56	8.65	235.12	2.93	262.28	2.01
4/11/08 6:30	5,130	181.72	0.62	300.36	108.67	214.25	3.13	192.56	8.65	235.12	2.93	262.29	2.01
4/11/08 6:45	5,145	181.73	0.64	300.58	108.89	214.25	3.14	192.57	8.66	235.13	2.93	262.28	2.01
4/11/08 7:00	5,160	181.74	0.64	300.29	108.60	214.26	3.14	192.58	8.66	235.14	2.94	262.29	2.02
4/11/08 7:15	5,175	181.74	0.64	300.45	108.77	214.26	3.14	192.57	8.66	235.14	2.94	262.30	2.03
4/11/08 7:30	5,190	181.75	0.65	300.58	108.89	214.28	3.16	192.59	8.68	235.15	2.95	262.30	2.03
4/11/08 7:45	5,205	181.75	0.65	300.54	108.86	214.27	3.16	192.57	8.66	235.14	2.95	262.31	2.04
4/11/08 8:00	5,220	181.75	0.66	300.30	108.62	214.28	3.16	192.59	8.68	235.15	2.95	262.31	2.04
4/11/08 8:15	5,235	181.74	0.65	300.47	108.78	214.29	3.17	192.59	8.68	235.15	2.96	262.31	2.04
4/11/08 8:30	5,250	181.75	0.65	300.71	109.03	214.28	3.16	192.59	8.68	235.16	2.96	262.32	2.05
4/11/08 8:45	5,265	181.76	0.66	300.37	108.68	214.29	3.17	192.60	8.69	235.16	2.97	262.33	2.06
4/11/08 9:00	5,280	181.75	0.65	300.58	108.89	214.29	3.17	192.60	8.68	235.17	2.97	262.32	2.05
4/11/08 9:15	5,295	181.76	0.66	300.07	108.39	214.30	3.18	192.61	8.70	235.18	2.99	262.33	2.06
4/11/08 9:30	5,310	181.77	0.67	300.37	108.68	214.29	3.18	192.62	8.71	235.17	2.98	262.33	2.06
4/11/08 9:45	5,325	181.78	0.68	300.48	108.79	214.31	3.19	192.62	8.71	235.18	2.98	262.34	2.07
4/11/08 10:00	5,340	181.78	0.68	300.91	109.22	214.31	3.19	192.61	8.70	235.18	2.99	262.35	2.07
4/11/08 10:15	5,355	181.77	0.67	300.63	108.94	214.32	3.20	192.63	8.72	235.18	2.99	262.35	2.08
4/11/08 10:30	5,370	181.78	0.68	300.37	108.68	214.32	3.21	192.65	8.74	235.20	3.00	262.35	2.08
4/11/08 10:45	5,385	181.79	0.69	303.60	111.92	214.33	3.21	192.64	8.72	235.20	3.01	262.36	2.09
4/11/08 11:00	5,400	181.79	0.69	303.62	111.93	214.32	3.21	192.66	8.75	235.20	3.01	262.36	2.09
4/11/08 11:15	5,415	181.80	0.70	304.05	112.36	214.33	3.22	192.66	8.75	235.20	3.00	262.37	2.09
4/11/08 11:30	5,430	181.80	0.70	304.04	112.35	214.33	3.21	192.68	8.77	235.21	3.01	262.37	2.10
4/11/08 11:45	5,445	181.79	0.69	303.88	112.19	214.34	3.22	192.68	8.77	235.22	3.02	262.38	2.11
4/11/08 12:00	5,460	181.81	0.71	303.95	112.27	214.35	3.23	192.68	8.77	235.23	3.03	262.38	2.11
4/11/08 12:15	5,475	181.80	0.70	303.98	112.29	214.35	3.24	192.69	8.78	235.23	3.03	262.38	2.11
4/11/08 12:30	5,490	181.82	0.72	303.93	112.24	214.36	3.25	192.71	8.80	235.22	3.03	262.39	2.12
4/11/08 12:45	5,505	181.82	0.72	303.83	112.15	214.36	3.25	192.71	8.80	235.24	3.04	262.40	2.13
4/11/08 13:00	5,520	181.83	0.73	304.04	112.36	214.37	3.26	192.73	8.82	235.24	3.05	262.40	2.13
4/11/08 13:15	5,535	181.83	0.73	304.17	112.48	214.37	3.26	192.73	8.82	235.24	3.05	262.41	2.14
4/11/08 13:30	5,550	181.84	0.74	304.27	112.59	214.38	3.26	192.74	8.83	235.25	3.06	262.41	2.14
4/11/08 13:45	5,565	181.84	0.74	304.19	112.51	214.39	3.27	192.76	8.85	235.26	3.06	262.43	2.16
4/11/08 14:00	5,580	181.84	0.74	303.99	112.31	214.39	3.27	192.76	8.85	235.26	3.07	262.42	2.15
4/11/08 14:15	5,595	181.84	0.74	304.21	112.52	214.40	3.28	192.77	8.86	235.28	3.08	262.43	2.16
4/11/08 14:30	5,610	181.86	0.76	304.01	112.33	214.41	3.29	192.80	8.89	235.27	3.07	262.43	2.16
4/11/08 14:45	5,625	181.86	0.76	304.05	112.36	214.41	3.30	192.79	8.88	235.29	3.09	262.44	2.16
4/11/08 15:00	5,640	181.86	0.76	303.99	112.30	214.42	3.30	192.81	8.90	235.29	3.10	262.44	2.17
4/11/08 15:15	5,655	181.87	0.77	304.15	112.46	214.42	3.31	192.81	8.90	235.28	3.09	262.45	2.18
4/11/08 15:30	5,670	181.87	0.77	303.70	112.01	214.43	3.32	192.82	8.91	235.30	3.11	262.45	2.18
4/11/08 15:45	5,685	181.86	0.76	303.97	112.28	214.43	3.31	192.82	8.91	235.30	3.11	262.46	2.19
4/11/08 16:00	5,700	181.88	0.78	303.54	111.85	214.43	3.31	192.85	8.94	235.31	3.11	262.46	2.19
4/11/08 16:15	5,715	181.89	0.79	304.11	112.43	214.45	3.33	192.85	8.94	235.31	3.12	262.48	2.20
4/11/08 16:30	5,730	181.89	0.79	303.72	112.03	214.45	3.33	192.87	8.96	235.33	3.14	262.46	2.19
4/11/08 16:45	5,745	181.90	0.80	304.22	112.53	214.45	3.34	192.85	8.94	235.33	3.13	262.48	2.21
4/11/08 17:00	5,760	181.90	0.80	304.10	112.42	214.46	3.34	192.88	8.97	235.33	3.14	262.47	2.20

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/11/08 17:15	5,775	181.88	0.78	304.35	112.67	214.46	3.34	192.90	8.99	235.33	3.14	262.48	2.21
4/11/08 17:30	5,790	181.90	0.80	303.90	112.22	214.47	3.35	192.89	8.98	235.34	3.15	262.49	2.22
4/11/08 17:45	5,805	181.90	0.80	303.94	112.25	214.48	3.36	192.90	8.99	235.35	3.16	262.50	2.23
4/11/08 18:00	5,820	181.90	0.80	304.11	112.43	214.47	3.35	192.89	8.98	235.35	3.15	262.49	2.22
4/11/08 18:15	5,835	181.90	0.80	304.18	112.49	214.48	3.36	192.90	8.99	235.35	3.16	262.50	2.22
4/11/08 18:30	5,850	181.91	0.81	304.00	112.31	214.47	3.36	192.92	9.01	235.36	3.16	262.50	2.23
4/11/08 18:45	5,865	181.91	0.81	304.25	112.56	214.49	3.37	192.92	9.01	235.35	3.16	262.50	2.23
4/11/08 19:00	5,880	181.91	0.81	304.16	112.48	214.48	3.36	192.93	9.02	235.36	3.16	262.50	2.22
4/11/08 19:15	5,895	181.92	0.82	304.45	112.77	214.50	3.38	192.94	9.03	235.37	3.18	262.51	2.24
4/11/08 19:30	5,910	181.91	0.81	304.67	112.99	214.50	3.39	192.96	9.04	235.37	3.18	262.51	2.24
4/11/08 19:45	5,925	181.93	0.83	304.68	113.00	214.51	3.39	192.94	9.03	235.37	3.18	262.53	2.25
4/11/08 20:00	5,940	181.93	0.83	304.71	113.02	214.51	3.39	192.96	9.05	235.39	3.19	262.52	2.24
4/11/08 20:15	5,955	181.93	0.83	304.66	112.98	214.51	3.40	192.97	9.06	235.39	3.19	262.52	2.25
4/11/08 20:30	5,970	181.94	0.84	304.56	112.87	214.52	3.40	192.98	9.07	235.39	3.20	262.53	2.26
4/11/08 20:45	5,985	181.94	0.84	304.69	113.00	214.51	3.40	192.96	9.05	235.40	3.21	262.54	2.27
4/11/08 21:00	6,000	181.95	0.85	304.68	112.99	214.53	3.41	192.99	9.08	235.40	3.21	262.54	2.27
4/11/08 21:15	6,015	181.94	0.84	304.62	112.93	214.52	3.41	192.99	9.08	235.41	3.21	262.54	2.27
4/11/08 21:30	6,030	181.94	0.84	304.22	112.53	214.54	3.42	193.00	9.08	235.41	3.22	262.55	2.28
4/11/08 21:45	6,045	181.95	0.86	304.45	112.77	214.54	3.42	193.02	9.10	235.42	3.22	262.55	2.28
4/11/08 22:00	6,060	181.96	0.86	304.79	113.10	214.54	3.42	193.04	9.12	235.41	3.22	262.55	2.28
4/11/08 22:15	6,075	181.95	0.85	305.12	113.43	214.54	3.43	193.02	9.10	235.42	3.22	262.56	2.29
4/11/08 22:30	6,090	181.96	0.86	304.61	112.92	214.55	3.43	193.02	9.11	235.43	3.23	262.55	2.28
4/11/08 22:45	6,105	181.94	0.84	304.87	113.18	214.56	3.44	193.03	9.12	235.42	3.23	262.56	2.29
4/11/08 23:00	6,120	181.96	0.86	304.47	112.78	214.55	3.44	193.03	9.11	235.43	3.23	262.56	2.29
4/11/08 23:15	6,135	181.96	0.86	304.79	113.10	214.56	3.44	193.03	9.12	235.43	3.24	262.55	2.28
4/11/08 23:30	6,150	181.96	0.86	304.81	113.12	214.55	3.43	193.03	9.12	235.42	3.23	262.55	2.28
4/11/08 23:45	6,165	181.96	0.86	304.70	113.02	214.55	3.44	193.04	9.13	235.44	3.25	262.56	2.29
4/12/08 0:00	6,180	181.96	0.86	305.07	113.38	214.55	3.43	193.04	9.13	235.43	3.24	262.56	2.29
4/12/08 0:15	6,195	181.95	0.85	304.96	113.27	214.57	3.45	193.05	9.13	235.44	3.24	262.56	2.28
4/12/08 0:30	6,210	181.96	0.86	304.91	113.22	214.56	3.45	193.06	9.15	235.45	3.25	262.56	2.29
4/12/08 0:45	6,225	181.96	0.86	305.16	113.47	214.57	3.45	193.06	9.15	235.44	3.24	262.56	2.29
4/12/08 1:00	6,240	181.96	0.86	305.08	113.39	214.57	3.45	193.06	9.15	235.44	3.25	262.57	2.29
4/12/08 1:15	6,255	181.96	0.86	305.00	113.31	214.57	3.46	193.07	9.16	235.44	3.25	262.57	2.30
4/12/08 1:30	6,270	181.97	0.87	305.26	113.57	214.57	3.46	193.07	9.16	235.45	3.26	262.57	2.30
4/12/08 1:45	6,285	181.96	0.86	305.05	113.36	214.57	3.46	193.08	9.16	235.45	3.25	262.58	2.31
4/12/08 2:00	6,300	181.97	0.87	304.76	113.07	214.58	3.46	193.07	9.16	235.45	3.26	262.58	2.30
4/12/08 2:15	6,315	181.95	0.86	304.95	113.26	214.58	3.46	193.07	9.16	235.46	3.26	262.57	2.30
4/12/08 2:30	6,330	181.97	0.87	304.79	113.10	214.58	3.47	193.08	9.16	235.46	3.27	262.58	2.31
4/12/08 2:45	6,345	181.97	0.87	304.95	113.27	214.59	3.47	193.10	9.19	235.46	3.26	262.58	2.31
4/12/08 3:00	6,360	181.98	0.88	304.84	113.15	214.59	3.47	193.10	9.18	235.46	3.27	262.57	2.30
4/12/08 3:15	6,375	181.98	0.88	304.93	113.25	214.59	3.48	193.11	9.20	235.46	3.26	262.58	2.31
4/12/08 3:30	6,390	181.98	0.89	304.80	113.11	214.60	3.48	193.10	9.19	235.47	3.28	262.59	2.32
4/12/08 3:45	6,405	181.98	0.88	304.63	112.94	214.60	3.49	193.11	9.19	235.47	3.27	262.58	2.31
4/12/08 4:00	6,420	181.98	0.88	304.79	113.11	214.61	3.49	193.12	9.21	235.47	3.27	262.59	2.32
4/12/08 4:15	6,435	181.99	0.89	304.74	113.06	214.61	3.49	193.12	9.21	235.47	3.28	262.60	2.33
4/12/08 4:30	6,450	181.98	0.89	304.71	113.02	214.61	3.49	193.12	9.21	235.48	3.29	262.60	2.33
4/12/08 4:45	6,465	181.98	0.88	304.90	113.22	214.61	3.49	193.13	9.21	235.48	3.29	262.60	2.33
4/12/08 5:00	6,480	182.00	0.90	304.88	113.19	214.62	3.50	193.14	9.23	235.48	3.29	262.60	2.33
4/12/08 5:15	6,495	182.00	0.90	304.87	113.18	214.61	3.50	193.15	9.23	235.48	3.29	262.60	2.33
4/12/08 5:30	6,510	181.99	0.90	305.23	113.55	214.62	3.51	193.15	9.24	235.49	3.30	262.61	2.34
4/12/08 5:45	6,525	182.00	0.90	305.01	113.33	214.62	3.51	193.15	9.24	235.49	3.29	262.62	2.35
4/12/08 6:00	6,540	181.98	0.88	304.84	112.95	214.63	3.52	193.16	9.25	235.49	3.30	262.62	2.35
4/12/08 6:15	6,555	182.00	0.90	304.86	113.17	214.63	3.51	193.17	9.25	235.50	3.30	262.62	2.35
4/12/08 6:30	6,570	182.01	0.91	305.03	113.34	214.64	3.52	193.17	9.26	235.50	3.31	262.63	2.36
4/12/08 6:45	6,585	182.01	0.91	305.24	113.55	214.64	3.53	193.18	9.27	235.51	3.31	262.63	2.36

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/12/08 7:00	6,600	182.00	0.90	305.29	113.60	214.64	3.53	193.18	9.27	235.51	3.31	262.63	2.35
4/12/08 7:15	6,615	182.01	0.91	305.12	113.43	214.65	3.53	193.19	9.27	235.51	3.32	262.63	2.36
4/12/08 7:30	6,630	182.01	0.92	305.22	113.53	214.65	3.54	193.19	9.28	235.52	3.32	262.63	2.36
4/12/08 7:45	6,645	182.02	0.93	305.17	113.48	214.66	3.55	193.19	9.28	235.52	3.33	262.64	2.37
4/12/08 8:00	6,660	182.03	0.93	304.88	113.20	214.66	3.54	193.20	9.29	235.54	3.34	262.64	2.37
4/12/08 8:15	6,675	182.02	0.92	304.85	113.16	214.67	3.55	193.20	9.29	235.54	3.35	262.64	2.37
4/12/08 8:30	6,690	182.03	0.93	304.92	113.24	214.67	3.56	193.21	9.30	235.54	3.35	262.64	2.37
4/12/08 8:45	6,705	182.03	0.93	305.20	113.51	214.67	3.55	193.21	9.30	235.54	3.35	262.64	2.37
4/12/08 9:00	6,720	182.03	0.93	305.35	113.66	214.68	3.56	193.22	9.31	235.55	3.35	262.65	2.38
4/12/08 9:15	6,735	182.04	0.94	305.46	113.77	214.68	3.56	193.22	9.31	235.55	3.35	262.65	2.38
4/12/08 9:30	6,750	182.03	0.93	305.57	113.88	214.67	3.55	193.22	9.30	235.54	3.34	262.66	2.38
4/12/08 9:45	6,765	182.04	0.94	305.21	113.52	214.68	3.56	193.22	9.31	235.55	3.35	262.66	2.39
4/12/08 10:00	6,780	182.03	0.93	305.47	113.78	214.69	3.57	193.23	9.32	235.55	3.35	262.66	2.39
4/12/08 10:15	6,795	182.04	0.94	305.22	113.53	214.68	3.57	193.23	9.33	235.55	3.36	262.66	2.39
4/12/08 10:30	6,810	182.04	0.94	305.17	113.48	214.69	3.57	193.24	9.33	235.55	3.35	262.66	2.39
4/12/08 10:45	6,825	182.05	0.95	305.48	113.79	214.69	3.58	193.23	9.32	235.56	3.37	262.66	2.39
4/12/08 11:00	6,840	182.04	0.94	305.21	113.52	214.70	3.58	193.24	9.33	235.56	3.37	262.66	2.39
4/12/08 11:15	6,855	182.04	0.95	305.38	113.69	214.69	3.58	193.25	9.34	235.56	3.36	262.67	2.39
4/12/08 11:30	6,870	182.03	0.93	305.18	113.49	214.70	3.58	193.25	9.34	235.56	3.36	262.67	2.40
4/12/08 11:45	6,885	182.05	0.95	304.96	113.27	214.69	3.57	193.25	9.34	235.56	3.36	262.67	2.40
4/12/08 12:00	6,900	182.05	0.95	304.76	113.07	214.71	3.59	193.26	9.34	235.57	3.37	262.68	2.41
4/12/08 12:15	6,915	182.05	0.95	305.40	113.72	214.71	3.59	193.25	9.34	235.57	3.37	262.68	2.40
4/12/08 12:30	6,930	182.05	0.95	305.01	113.32	214.71	3.59	193.27	9.36	235.58	3.39	262.68	2.41
4/12/08 12:45	6,945	182.05	0.95	305.12	113.44	214.71	3.60	193.27	9.35	235.59	3.40	262.68	2.41
4/12/08 13:00	6,960	182.06	0.96	305.15	113.46	214.72	3.60	193.29	9.38	235.60	3.40	262.69	2.42
4/12/08 13:15	6,975	182.06	0.96	305.24	113.55	214.72	3.60	193.29	9.38	235.59	3.39	262.68	2.41
4/12/08 13:30	6,990	182.07	0.98	305.19	113.51	214.73	3.61	193.28	9.37	235.59	3.40	262.70	2.43
4/12/08 13:45	7,005	182.07	0.97	305.21	113.52	214.73	3.62	193.30	9.39	235.61	3.41	262.70	2.43
4/12/08 14:00	7,020	182.07	0.97	305.70	114.02	214.73	3.61	193.30	9.39	235.59	3.40	262.70	2.43
4/12/08 14:15	7,035	182.08	0.98	305.39	113.70	214.74	3.62	193.31	9.40	235.61	3.41	262.70	2.43
4/12/08 14:30	7,050	182.08	0.98	305.33	113.65	214.73	3.62	193.32	9.41	235.62	3.42	262.71	2.44
4/12/08 14:45	7,065	182.09	0.99	305.53	113.84	214.75	3.63	193.32	9.41	235.61	3.42	262.71	2.44
4/12/08 15:00	7,080	182.10	1.00	305.54	113.85	214.75	3.63	193.33	9.41	235.62	3.42	262.72	2.45
4/12/08 15:15	7,095	182.09	0.99	305.51	113.82	214.76	3.64	193.33	9.41	235.62	3.43	262.71	2.44
4/12/08 15:30	7,110	182.10	1.00	305.40	113.71	214.75	3.64	193.33	9.42	235.62	3.43	262.72	2.45
4/12/08 15:45	7,125	182.11	1.01	305.71	114.02	214.77	3.65	193.34	9.43	235.64	3.44	262.73	2.46
4/12/08 16:00	7,140	182.11	1.01	305.63	113.94	214.77	3.65	193.34	9.43	235.64	3.44	262.73	2.46
4/12/08 16:15	7,155	182.11	1.01	305.46	113.77	214.77	3.66	193.35	9.44	235.64	3.45	262.72	2.45
4/12/08 16:30	7,170	182.11	1.01	305.52	113.83	214.78	3.66	193.35	9.44	235.64	3.44	262.74	2.47
4/12/08 16:45	7,185	182.11	1.01	305.36	113.67	214.78	3.66	193.36	9.45	235.64	3.45	262.73	2.46
4/12/08 17:00	7,200	182.12	1.02	305.34	113.65	214.78	3.67	193.36	9.44	235.65	3.45	262.75	2.48
4/12/08 17:15	7,215	182.13	1.03	305.23	113.55	214.78	3.66	193.36	9.45	235.65	3.46	262.75	2.48
4/12/08 17:30	7,230	182.13	1.03	305.19	113.50	214.79	3.67	193.36	9.45	235.65	3.46	262.75	2.48
4/12/08 17:45	7,245	182.13	1.03	305.37	113.68	214.80	3.68	193.37	9.46	235.66	3.47	262.75	2.48
4/12/08 18:00	7,260	182.14	1.04	305.18	113.49	214.81	3.69	193.38	9.47	235.67	3.48	262.76	2.49
4/12/08 18:15	7,275	182.14	1.04	305.28	113.59	214.80	3.68	193.39	9.48	235.68	3.48	262.76	2.49
4/12/08 18:30	7,290	182.13	1.03	305.68	114.00	214.82	3.70	193.39	9.48	235.68	3.49	262.77	2.50
4/12/08 18:45	7,305	182.14	1.04	305.52	113.84	214.82	3.70	193.40	9.49	235.69	3.49	262.77	2.50
4/12/08 19:00	7,320	182.15	1.05	305.64	113.95	214.82	3.70	193.39	9.48	235.69	3.49	262.77	2.50
4/12/08 19:15	7,335	182.15	1.05	305.47	113.78	214.83	3.71	193.41	9.50	235.68	3.49	262.77	2.50
4/12/08 19:30	7,350	182.16	1.06	305.68	113.99	214.82	3.71	193.40	9.49	235.69	3.50	262.78	2.51
4/12/08 19:45	7,365	182.15	1.05	305.47	113.78	214.83	3.72	193.41	9.50	235.71	3.51	262.77	2.50
4/12/08 20:00	7,380	182.15	1.05	305.41	113.72	214.83	3.72	193.41	9.50	235.70	3.50	262.78	2.51
4/12/08 20:15	7,395	182.15	1.05	305.69	114.00	214.84	3.72	193.42	9.51	235.71	3.51	262.78	2.51
4/12/08 20:30	7,410	182.16	1.06	305.99	114.31	214.83	3.71	193.42	9.51	235.71	3.51	262.78	2.51

Appendix D
Three Crow Level TROLL Depth to Water data

Date & Time	DT (minutes)	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/12/08 20:45	7,425	182.17	1.07	305.82	114.13	214.85	3.73	193.43	9.52	235.71	3.51	262.78	2.51
4/12/08 21:00	7,440	182.16	1.06	305.75	114.06	214.85	3.73	193.43	9.52	235.72	3.52	262.79	2.51
4/12/08 21:15	7,455	182.17	1.07	306.15	114.46	214.85	3.74	193.43	9.52	235.72	3.52	262.79	2.52
4/12/08 21:30	7,470	182.19	1.09	305.90	114.21	214.85	3.74	193.44	9.53	235.72	3.52	262.79	2.52
4/12/08 21:45	7,485	182.17	1.07	305.84	114.16	214.85	3.74	193.44	9.53	235.72	3.53	262.79	2.52
4/12/08 22:00	7,500	182.18	1.08	305.91	114.22	214.86	3.74	193.45	9.54	235.73	3.54	262.79	2.52
4/12/08 22:15	7,515	182.17	1.07	305.84	114.15	214.86	3.74	193.46	9.54	235.73	3.54	262.79	2.52
4/12/08 22:30	7,530	182.17	1.07	305.73	114.04	214.86	3.74	193.46	9.55	235.74	3.54	262.79	2.52
4/12/08 22:45	7,545	182.17	1.08	305.76	114.07	214.87	3.75	193.46	9.55	235.73	3.53	262.79	2.52
4/12/08 23:00	7,560	182.19	1.09	305.95	114.27	214.87	3.75	193.45	9.54	235.73	3.53	262.79	2.52
4/12/08 23:15	7,575	182.18	1.08	305.72	114.03	214.87	3.75	193.47	9.56	235.74	3.54	262.80	2.53
4/12/08 23:30	7,590	182.18	1.08	305.37	113.68	214.87	3.75	193.47	9.56	235.73	3.53	262.80	2.53
4/12/08 23:45	7,605	182.19	1.09	305.75	114.06	214.87	3.76	193.46	9.55	235.73	3.54	262.79	2.52
4/13/08 0:00	7,620	182.19	1.09	305.47	113.79	214.87	3.76	193.47	9.56	235.74	3.55	262.80	2.52
4/13/08 0:15	7,635	182.19	1.09	305.57	113.88	214.87	3.75	193.46	9.55	235.73	3.54	262.80	2.53
4/13/08 0:30	7,650	182.19	1.09	305.50	113.81	214.87	3.75	193.48	9.57	235.73	3.54	262.80	2.53
4/13/08 0:45	7,665	182.18	1.08	305.68	113.99	214.87	3.76	193.48	9.57	235.74	3.55	262.80	2.53
4/13/08 1:00	7,680	182.19	1.09	306.09	114.40	214.88	3.76	193.48	9.57	235.74	3.54	262.80	2.53
4/13/08 1:15	7,695	182.19	1.09	305.73	114.05	214.87	3.75	193.48	9.57	235.75	3.55	262.80	2.53
4/13/08 1:30	7,710	182.19	1.09	305.79	114.10	214.88	3.76	193.48	9.57	235.74	3.55	262.80	2.53
4/13/08 1:45	7,725	182.19	1.09	305.78	114.09	214.88	3.76	193.47	9.56	235.74	3.55	262.80	2.53
4/13/08 2:00	7,740	182.19	1.10	305.49	113.80	214.88	3.76	193.48	9.57	235.74	3.55	262.81	2.53
4/13/08 2:15	7,755	182.19	1.10	305.92	114.23	214.89	3.78	193.49	9.58	235.75	3.56	262.80	2.53
4/13/08 2:30	7,770	182.19	1.09	305.89	114.21	214.88	3.76	193.48	9.57	235.74	3.54	262.80	2.53
4/13/08 2:45	7,785	182.19	1.09	306.16	114.48	214.88	3.77	193.49	9.58	235.75	3.55	262.81	2.54
4/13/08 3:00	7,800	182.20	1.10	305.94	114.26	214.88	3.77	193.49	9.58	235.75	3.55	262.81	2.53
4/13/08 3:15	7,815	182.19	1.09	305.97	114.29	214.89	3.77	193.49	9.58	235.75	3.56	262.81	2.54
4/13/08 3:30	7,830	182.18	1.08	305.95	114.26	214.89	3.77	193.50	9.59	235.75	3.56	262.81	2.54
4/13/08 3:45	7,845	182.19	1.09	305.84	114.15	214.89	3.77	193.50	9.59	235.75	3.55	262.81	2.54
4/13/08 4:00	7,860	182.19	1.09	305.79	114.11	214.89	3.77	193.50	9.59	235.75	3.56	262.82	2.54
4/13/08 4:15	7,875	182.20	1.10	305.86	114.18	214.89	3.78	193.51	9.60	235.75	3.56	262.82	2.55
4/13/08 4:30	7,890	182.19	1.09	305.94	114.25	214.90	3.78	193.50	9.59	235.76	3.56	262.82	2.55
4/13/08 4:45	7,905	182.21	1.11	305.88	114.19	214.89	3.78	193.51	9.60	235.76	3.56	262.82	2.55
4/13/08 5:00	7,920	182.20	1.10	306.29	114.61	214.90	3.79	193.52	9.61	235.76	3.57	262.82	2.55
4/13/08 5:15	7,935	182.20	1.10	306.16	114.48	214.90	3.79	193.51	9.60	235.76	3.57	262.82	2.54
4/13/08 5:30	7,950	182.21	1.11	306.31	114.63	214.91	3.79	193.52	9.61	235.77	3.57	262.83	2.56
4/13/08 5:45	7,965	182.22	1.12	306.03	114.34	214.91	3.79	193.52	9.60	235.78	3.58	262.83	2.56
4/13/08 6:00	7,980	182.21	1.12	306.33	114.64	214.92	3.80	193.53	9.62	235.77	3.58	262.83	2.56
4/13/08 6:15	7,995	182.22	1.12	306.06	114.37	214.92	3.80	193.53	9.62	235.78	3.58	262.83	2.56
4/13/08 6:30	8,010	182.22	1.12	305.75	114.07	214.91	3.79	193.53	9.62	235.78	3.58	262.84	2.57
4/13/08 6:45	8,025	182.23	1.13	305.65	113.97	214.93	3.81	193.53	9.62	235.78	3.59	262.84	2.57
4/13/08 7:00	8,040	182.23	1.13	306.14	114.45	214.93	3.81	193.55	9.64	235.78	3.59	262.84	2.57
4/13/08 7:15	8,055	182.23	1.13	306.18	114.49	214.93	3.82	193.55	9.64	235.80	3.60	262.84	2.57
4/13/08 7:30	8,070	182.22	1.12	306.22	114.53	214.93	3.82	193.54	9.63	235.79	3.60	262.85	2.58
4/13/08 7:45	8,085	182.25	1.15	306.09	114.40	214.94	3.82	193.56	9.65	235.79	3.60	262.86	2.58
4/13/08 8:00	8,100	182.22	1.13	306.05	114.36	214.94	3.82	193.56	9.65	235.80	3.61	262.85	2.58
4/13/08 8:15	8,115	182.24	1.14	306.25	114.56	214.94	3.83	193.56	9.64	235.80	3.61	262.85	2.58
4/13/08 8:30	8,130	182.23	1.13	305.96	114.27	214.94	3.82	193.56	9.65	235.80	3.61	262.86	2.58
4/13/08 8:45	8,145	182.25	1.15	306.33	114.64	214.94	3.83	193.58	9.66	235.82	3.62	262.86	2.59
4/13/08 9:00	8,160	182.25	1.15	305.95	114.26	214.94	3.82	193.57	9.66	235.81	3.62	262.86	2.59
4/13/08 9:15	8,175	182.25	1.15	306.45	114.76	214.95	3.83	193.58	9.67	235.81	3.61	262.87	2.59
4/13/08 9:30	8,190	182.25	1.15	305.95	114.26	214.96	3.84	193.58	9.66	235.81	3.62	262.87	2.59
4/13/08 9:45	8,205	182.25	1.15	305.95	114.26	214.95	3.83	193.58	9.67	235.82	3.63	262.87	2.60
4/13/08 10:00	8,220	182.25	1.15	305.79	114.11	214.96	3.84	193.58	9.67	235.82	3.62	262.87	2.60
4/13/08 10:15	8,235	182.25	1.15	305.87	114.18	214.96	3.84	193.59	9.67	235.82	3.63	262.87	2.60

Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/13/08 10:30	8,250	182.26	1.16	305.40	113.72	214.96	3.84	193.58	9.67	235.82	3.62	262.88	2.60
4/13/08 10:45	8,265	182.25	1.16	305.66	113.97	214.95	3.84	193.59	9.68	235.82	3.62	262.88	2.60
4/13/08 11:00	8,280	182.26	1.16	305.38	113.69	214.96	3.85	193.59	9.68	235.82	3.63	262.88	2.61
4/13/08 11:15	8,295	182.26	1.16	305.04	113.35	214.96	3.84	193.59	9.68	235.83	3.63	262.88	2.61
4/13/08 11:30	8,310	182.25	1.15	304.94	113.25	214.96	3.85	193.59	9.68	235.82	3.62	262.88	2.61
4/13/08 11:45	8,325	182.26	1.16	305.02	113.34	214.96	3.84	193.59	9.68	235.82	3.62	262.88	2.61
4/13/08 12:00	8,340	182.26	1.16	304.69	113.00	214.96	3.85	193.59	9.68	235.82	3.62	262.89	2.62
4/13/08 12:15	8,355	182.26	1.16	305.11	113.42	214.97	3.85	193.59	9.68	235.82	3.62	262.88	2.61
4/13/08 12:30	8,370	182.25	1.15	305.06	113.37	214.96	3.85	193.59	9.68	235.82	3.63	262.89	2.62
4/13/08 12:45	8,385	182.25	1.16	305.16	113.47	214.97	3.85	193.59	9.68	235.82	3.63	262.89	2.62
4/13/08 13:00	8,400	182.25	1.15	305.17	113.49	214.97	3.85	193.58	9.67	235.82	3.62	262.89	2.62
4/13/08 13:15	8,415	182.25	1.15	305.22	113.53	214.96	3.85	193.59	9.68	235.82	3.62	262.89	2.62
4/13/08 13:30	8,430	182.25	1.15	305.03	113.34	214.96	3.85	193.59	9.68	235.82	3.63	262.89	2.62
4/13/08 13:45	8,445	182.25	1.15	304.74	113.05	214.96	3.84	193.59	9.68	235.82	3.62	262.89	2.62
4/13/08 14:00	8,460	182.25	1.15	304.77	113.08	214.96	3.84	193.58	9.67	235.82	3.63	262.89	2.62
4/13/08 14:15	8,475	182.25	1.15	304.70	113.02	214.97	3.85	193.58	9.66	235.82	3.62	262.90	2.63
4/13/08 14:30	8,490	182.25	1.15	304.74	113.05	214.97	3.85	193.58	9.67	235.83	3.63	262.90	2.62
4/13/08 14:45	8,505	182.25	1.15	305.16	113.47	214.96	3.85	193.57	9.66	235.82	3.62	262.90	2.63
4/13/08 15:00	8,520	182.25	1.15	304.98	113.30	214.96	3.84	193.59	9.68	235.82	3.63	262.90	2.63
4/13/08 15:15	8,535	182.25	1.15	304.97	113.29	214.97	3.85	193.58	9.67	235.83	3.63	262.91	2.64
4/13/08 15:30	8,550	182.24	1.14	304.83	113.14	214.97	3.85	193.58	9.67	235.83	3.63	262.89	2.62
4/13/08 15:45	8,565	182.26	1.16	304.98	113.29	214.97	3.85	193.58	9.67	235.82	3.62	262.91	2.64
4/13/08 16:00	8,580	182.24	1.14	304.84	113.15	214.97	3.85	193.59	9.68	235.82	3.63	262.91	2.64
4/13/08 16:15	8,595	182.25	1.15	304.43	112.74	214.97	3.86	193.58	9.67	235.82	3.63	262.91	2.64
4/13/08 16:30	8,610	182.26	1.16	304.48	112.80	214.97	3.86	193.59	9.68	235.83	3.63	262.90	2.63
4/13/08 16:45	8,625	182.26	1.16	304.49	112.81	214.98	3.86	193.59	9.68	235.83	3.64	262.91	2.64
4/13/08 17:00	8,640	182.26	1.16	304.49	112.81	214.97	3.85	193.59	9.68	235.83	3.63	262.91	2.64
4/13/08 17:15	8,655	182.26	1.16	304.41	112.72	214.98	3.86	193.59	9.68	235.83	3.63	262.91	2.64
4/13/08 17:30	8,670	182.26	1.17	304.57	112.89	214.98	3.86	193.59	9.68	235.83	3.64	262.92	2.64
4/13/08 17:45	8,685	182.26	1.16	304.48	112.79	214.97	3.85	193.59	9.68	235.83	3.64	262.91	2.64
4/13/08 18:00	8,700	182.26	1.16	304.66	112.97	214.97	3.86	193.58	9.67	235.84	3.65	262.92	2.64
4/13/08 18:15	8,715	182.26	1.17	304.94	113.26	214.99	3.87	193.59	9.68	235.84	3.65	262.93	2.65
4/13/08 18:30	8,730	182.27	1.17	304.30	112.62	214.99	3.87	193.59	9.68	235.84	3.64	262.92	2.65
4/13/08 18:45	8,745	182.27	1.17	304.87	113.18	214.98	3.86	193.60	9.68	235.84	3.64	262.93	2.66
4/13/08 19:00	8,760	182.26	1.16	304.72	113.04	214.99	3.88	193.59	9.68	235.83	3.64	262.93	2.65
4/13/08 19:15	8,775	182.26	1.16	304.76	113.07	214.98	3.86	193.60	9.68	235.84	3.65	262.92	2.65
4/13/08 19:30	8,790	182.26	1.16	305.15	113.46	214.99	3.87	193.59	9.67	235.85	3.65	262.92	2.65
4/13/08 19:45	8,805	182.26	1.17	305.06	113.37	214.99	3.87	193.59	9.68	235.84	3.64	262.93	2.65
4/13/08 20:00	8,820	182.27	1.17	305.02	113.34	214.98	3.87	193.60	9.69	235.84	3.65	262.93	2.66
4/13/08 20:15	8,835	182.28	1.18	305.25	113.56	214.99	3.88	193.59	9.68	235.84	3.65	262.93	2.66
4/13/08 20:30	8,850	182.27	1.17	305.20	113.52	215.00	3.88	193.59	9.68	235.84	3.65	262.93	2.66
4/13/08 20:45	8,865	182.29	1.19	304.97	113.29	215.00	3.88	193.61	9.69	235.85	3.65	262.93	2.66
4/13/08 21:00	8,880	182.28	1.19	305.28	113.59	215.00	3.88	193.60	9.69	235.85	3.65	262.93	2.66
4/13/08 21:15	8,895	182.28	1.18	305.33	113.65	215.00	3.88	193.60	9.69	235.85	3.66	262.94	2.67
4/13/08 21:30	8,910	182.29	1.19	305.36	113.67	215.00	3.89	193.62	9.70	235.85	3.66	262.94	2.67
4/13/08 21:45	8,925	182.29	1.19	305.21	113.53	215.01	3.89	193.62	9.71	235.85	3.66	262.93	2.66
4/13/08 22:00	8,940	182.28	1.18	305.43	113.75	215.01	3.89	193.60	9.69	235.85	3.65	262.94	2.67
4/13/08 22:15	8,955	182.29	1.19	305.44	113.75	215.01	3.89	193.61	9.70	235.87	3.67	262.94	2.67
4/13/08 22:30	8,970	182.29	1.19	305.21	113.52	215.00	3.88	193.60	9.69	235.85	3.65	262.93	2.66
4/13/08 22:45	8,985	182.28	1.18	305.22	113.54	215.01	3.89	193.61	9.70	235.86	3.66	262.93	2.66
4/13/08 23:00	9,000	182.29	1.19	305.20	113.51	215.00	3.88	193.61	9.69	235.86	3.67	262.93	2.66
4/13/08 23:15	9,015	182.29	1.19	305.59	113.90	215.00	3.88	193.61	9.70	235.85	3.66	262.94	2.67
4/13/08 23:30	9,030	182.29	1.19	305.56	113.87	215.00	3.88	193.61	9.69	235.85	3.66	262.94	2.67
4/13/08 23:45	9,045	182.27	1.17	305.57	113.89	215.00	3.88	193.61	9.70	235.84	3.65	262.94	2.66
4/14/08 0:00	9,060	182.29	1.19	305.94	114.25	215.00	3.89	193.61	9.70	235.85	3.65	262.93	2.65

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT (minutes)	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/14/08 0:15	9,075	182.28	1.18	305.48	113.80	215.00	3.88	193.60	9.69	235.84	3.65	262.93	2.66
4/14/08 0:30	9,090	182.28	1.18	305.66	113.97	215.00	3.88	193.61	9.70	235.84	3.65	262.93	2.66
4/14/08 0:45	9,105	182.28	1.18	305.48	113.79	214.99	3.88	193.61	9.70	235.85	3.65	262.93	2.66
4/14/08 1:00	9,120	182.27	1.17	305.70	114.02	215.00	3.88	193.60	9.69	235.84	3.65	262.92	2.65
4/14/08 1:15	9,135	182.28	1.18	305.68	113.99	215.00	3.88	193.61	9.70	235.85	3.65	262.93	2.66
4/14/08 1:30	9,150	182.28	1.18	306.01	114.32	215.00	3.88	193.61	9.70	235.84	3.64	262.93	2.66
4/14/08 1:45	9,165	182.28	1.18	305.97	114.28	215.00	3.88	193.60	9.69	235.85	3.65	262.93	2.65
4/14/08 2:00	9,180	182.27	1.17	305.87	114.18	214.99	3.88	193.61	9.69	235.84	3.64	262.93	2.65
4/14/08 2:15	9,195	182.28	1.18	305.86	114.17	214.99	3.87	193.60	9.69	235.84	3.64	262.92	2.65
4/14/08 2:30	9,210	182.26	1.16	306.01	114.32	214.98	3.87	193.60	9.69	235.84	3.64	262.92	2.65
4/14/08 2:45	9,225	182.26	1.16	305.85	114.16	214.99	3.88	193.60	9.69	235.84	3.64	262.92	2.65
4/14/08 3:00	9,240	182.26	1.16	305.93	114.24	214.98	3.87	193.60	9.69	235.84	3.64	262.91	2.64
4/14/08 3:15	9,255	182.27	1.17	306.36	114.68	214.99	3.87	193.60	9.69	235.84	3.64	262.92	2.65
4/14/08 3:30	9,270	182.27	1.17	306.24	114.56	214.99	3.87	193.60	9.69	235.84	3.65	262.91	2.64
4/14/08 3:45	9,285	182.26	1.16	306.00	114.32	214.99	3.87	193.60	9.69	235.84	3.65	262.92	2.65
4/14/08 4:00	9,300	182.27	1.17	305.83	114.15	214.99	3.87	193.62	9.71	235.83	3.64	262.91	2.64
4/14/08 4:15	9,315	182.27	1.17	306.02	114.33	214.98	3.86	193.60	9.69	235.84	3.65	262.92	2.65
4/14/08 4:30	9,330	182.27	1.17	306.18	114.50	214.99	3.87	193.61	9.70	235.83	3.64	262.92	2.65
4/14/08 4:45	9,345	182.27	1.17	306.22	114.53	214.99	3.87	193.61	9.70	235.84	3.64	262.91	2.64
4/14/08 5:00	9,360	182.26	1.16	306.01	114.32	215.00	3.88	193.61	9.70	235.84	3.64	262.91	2.64
4/14/08 5:15	9,375	182.27	1.17	305.81	114.12	214.99	3.88	193.62	9.71	235.83	3.64	262.93	2.65
4/14/08 5:30	9,390	182.28	1.18	305.70	114.02	214.99	3.87	193.61	9.70	235.84	3.64	262.92	2.65
4/14/08 5:45	9,405	182.26	1.16	305.86	114.17	215.00	3.88	193.61	9.70	235.84	3.65	262.92	2.65
4/14/08 6:00	9,420	182.28	1.18	305.96	114.28	215.00	3.88	193.63	9.72	235.84	3.65	262.94	2.66
4/14/08 6:15	9,435	182.28	1.18	306.25	114.56	215.00	3.89	193.62	9.71	235.85	3.65	262.93	2.66
4/14/08 6:30	9,450	182.28	1.18	306.13	114.45	215.01	3.89	193.63	9.72	235.85	3.66	262.93	2.66
4/14/08 6:45	9,465	182.28	1.19	306.07	114.38	215.01	3.89	193.64	9.73	235.85	3.66	262.94	2.66
4/14/08 7:00	9,480	182.29	1.19	305.94	114.25	215.01	3.89	193.65	9.73	235.86	3.67	262.95	2.67
4/14/08 7:15	9,495	182.29	1.19	305.81	114.12	215.01	3.90	193.65	9.73	235.86	3.66	262.94	2.67
4/14/08 7:30	9,510	182.28	1.18	305.91	114.22	215.01	3.89	193.65	9.74	235.85	3.66	262.94	2.67
4/14/08 7:45	9,525	182.29	1.19	305.73	114.05	215.01	3.89	193.64	9.73	235.86	3.66	262.94	2.67
4/14/08 8:00	9,540	182.29	1.19	305.63	113.94	215.02	3.90	193.64	9.73	235.86	3.66	262.94	2.67
4/14/08 8:15	9,555	182.29	1.19	306.06	114.38	215.02	3.90	193.65	9.73	235.87	3.68	262.94	2.67
4/14/08 8:30	9,570	182.29	1.19	306.05	114.36	215.02	3.90	193.66	9.75	235.86	3.67	262.95	2.68
4/14/08 8:45	9,585	182.30	1.20	306.06	114.37	215.02	3.90	193.65	9.74	235.86	3.66	262.95	2.67
4/14/08 9:00	9,600	182.30	1.20	305.68	113.99	215.02	3.91	193.66	9.74	235.86	3.67	262.94	2.67
4/14/08 9:15	9,615	182.29	1.19	305.05	113.37	215.02	3.91	193.66	9.75	235.85	3.66	262.95	2.68
4/14/08 9:30	9,630	182.29	1.19	305.52	113.83	215.01	3.90	193.65	9.74	235.86	3.67	262.94	2.67
4/14/08 9:45	9,645	182.29	1.19	305.23	113.54	215.02	3.90	193.65	9.74	235.86	3.66	262.94	2.67
4/14/08 10:00	9,660	182.29	1.19	305.26	113.58	215.02	3.90	193.66	9.74	235.86	3.66	262.95	2.67
4/14/08 10:15	9,675	182.29	1.19	305.16	113.48	215.02	3.90	193.65	9.74	235.86	3.66	263.00	2.72
4/14/08 10:30	9,690	182.28	1.18	305.09	113.41	215.02	3.90	193.65	9.74	235.86	3.67	262.95	2.68
4/14/08 10:45	9,705	182.29	1.20	305.32	113.64	215.02	3.90	193.64	9.73	235.87	3.67	262.94	2.67
4/14/08 11:00	9,720	182.28	1.19	305.22	113.53	215.02	3.90	193.65	9.74	235.86	3.67	262.94	2.66
4/14/08 11:15	9,735	182.28	1.18	305.04	113.36	215.02	3.90	193.65	9.74	235.86	3.66	262.94	2.67
4/14/08 11:30	9,750	182.29	1.19	304.89	113.21	215.02	3.90	193.65	9.74	235.86	3.67	262.94	2.67
4/14/08 11:45	9,765	182.28	1.18	304.96	113.27	215.02	3.90	193.65	9.74	235.86	3.66	262.94	2.67
4/14/08 12:00	9,780	182.29	1.19	304.87	113.19	215.02	3.90	193.65	9.74	235.86	3.67	262.93	2.66
4/14/08 12:15	9,795	182.29	1.19	304.70	113.01	215.02	3.90	193.65	9.73	235.85	3.65	262.93	2.66
4/14/08 12:30	9,810	182.29	1.19	304.88	113.19	215.02	3.90	193.64	9.72	235.86	3.66	262.93	2.66
4/14/08 12:45	9,825	182.29	1.19	304.98	113.29	215.01	3.90	193.64	9.73	235.85	3.65	262.93	2.66
4/14/08 13:00	9,840	182.29	1.19	304.76	113.07	215.01	3.90	193.64	9.73	235.85	3.65	262.93	2.66
4/14/08 13:15	9,855	182.27	1.17	304.84	113.15	215.01	3.90	193.63	9.72	235.85	3.65	262.93	2.66
4/14/08 13:30	9,870	182.27	1.17	304.77	113.08	215.01	3.89	193.64	9.72	235.85	3.66	262.93	2.66
4/14/08 13:45	9,885	182.27	1.17	304.58	112.89	215.00	3.89	193.63	9.72	235.84	3.65	262.93	2.65

Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/14/08 14:00	9,900	182.28	1.18	304.43	112.74	215.01	3.89	193.62	9.71	235.85	3.65	262.93	2.65
4/14/08 14:15	9,915	182.28	1.18	304.55	112.87	215.00	3.89	193.63	9.71	235.85	3.65	262.92	2.65
4/14/08 14:30	9,930	182.26	1.16	304.52	112.84	215.00	3.89	193.62	9.71	235.84	3.64	262.92	2.65
4/14/08 14:45	9,945	182.28	1.18	304.36	112.68	215.00	3.88	193.62	9.70	235.83	3.64	262.92	2.65
4/14/08 15:00	9,960	182.26	1.16	304.32	112.63	215.00	3.88	193.62	9.71	235.83	3.64	262.92	2.65
4/14/08 15:15	9,975	182.27	1.17	304.55	112.87	215.00	3.88	193.61	9.70	235.83	3.63	262.92	2.64
4/14/08 15:30	9,990	182.25	1.15	304.36	112.67	215.00	3.88	193.61	9.70	235.83	3.63	262.91	2.64
4/14/08 15:45	10,005	182.27	1.17	304.37	112.68	215.00	3.88	193.61	9.70	235.83	3.63	262.91	2.64
4/14/08 16:00	10,020	182.27	1.17	304.56	112.87	215.00	3.88	193.61	9.70	235.83	3.63	262.91	2.64
4/14/08 16:15	10,035	182.27	1.17	304.59	112.90	215.00	3.88	193.61	9.70	235.84	3.64	262.92	2.64
4/14/08 16:30	10,050	182.25	1.15	304.25	112.56	215.00	3.88	193.62	9.71	235.83	3.64	262.91	2.64
4/14/08 16:45	10,065	182.27	1.17	304.67	112.99	215.00	3.88	193.61	9.70	235.83	3.63	262.91	2.64
4/14/08 17:00	10,080	182.27	1.17	304.32	112.64	215.00	3.88	193.60	9.69	235.83	3.64	262.91	2.64
4/14/08 17:15	10,095	182.26	1.16	304.50	112.81	215.00	3.88	193.62	9.70	235.84	3.65	262.91	2.64
4/14/08 17:30	10,110	182.26	1.16	304.34	112.65	214.99	3.88	193.60	9.69	235.84	3.64	262.90	2.63
4/14/08 17:45	10,125	182.27	1.17	304.45	112.76	215.00	3.88	193.61	9.70	235.84	3.64	262.91	2.64
4/14/08 18:00	10,140	182.27	1.17	304.76	113.08	215.00	3.88	193.61	9.70	235.84	3.64	262.91	2.64
4/14/08 18:15	10,155	182.27	1.17	304.62	112.94	215.00	3.88	193.62	9.70	235.84	3.64	262.92	2.65
4/14/08 18:30	10,170	182.28	1.18	304.60	112.92	215.00	3.89	193.62	9.71	235.84	3.64	262.92	2.65
4/14/08 18:45	10,185	182.28	1.18	304.91	113.23	215.00	3.88	193.62	9.71	235.85	3.65	262.92	2.65
4/14/08 19:00	10,200	182.28	1.18	304.55	112.86	215.01	3.89	193.61	9.70	235.84	3.64	262.92	2.65
4/14/08 19:15	10,215	182.28	1.18	305.06	113.37	215.01	3.89	193.62	9.71	235.84	3.65	262.93	2.65
4/14/08 19:30	10,230	182.28	1.18	305.07	113.38	215.01	3.89	193.61	9.70	235.85	3.66	262.93	2.66
4/14/08 19:45	10,245	182.29	1.19	305.42	113.73	215.01	3.90	193.63	9.72	235.85	3.66	262.93	2.66
4/14/08 20:00	10,260	182.29	1.19	305.15	113.46	215.01	3.89	193.63	9.72	235.85	3.65	262.93	2.66
4/14/08 20:15	10,275	182.29	1.19	305.51	113.83	215.01	3.90	193.63	9.72	235.86	3.67	262.94	2.67
4/14/08 20:30	10,290	182.28	1.19	305.47	113.78	215.03	3.91	193.64	9.72	235.85	3.66	262.94	2.67
4/14/08 20:45	10,305	182.30	1.21	305.59	113.90	215.03	3.91	193.64	9.73	235.87	3.67	262.95	2.67
4/14/08 21:00	10,320	182.29	1.20	305.73	114.05	215.03	3.91	193.63	9.72	235.87	3.67	262.94	2.67
4/14/08 21:15	10,335	182.31	1.21	305.44	113.75	215.04	3.92	193.65	9.73	235.87	3.67	262.96	2.68
4/14/08 21:30	10,350	182.31	1.21	305.66	113.98	215.04	3.92	193.64	9.73	235.87	3.68	262.95	2.68
4/14/08 21:45	10,365	182.31	1.21	305.46	113.78	215.04	3.93	193.65	9.74	235.87	3.67	262.96	2.69
4/14/08 22:00	10,380	182.32	1.22	305.87	114.18	215.04	3.92	193.65	9.74	235.88	3.68	262.96	2.69
4/14/08 22:15	10,395	182.31	1.21	305.83	114.14	215.04	3.92	193.65	9.73	235.87	3.68	262.96	2.69
4/14/08 22:30	10,410	182.30	1.20	305.77	114.08	215.04	3.92	193.66	9.75	235.88	3.68	262.96	2.69
4/14/08 22:45	10,425	182.30	1.20	305.80	114.12	215.04	3.92	193.65	9.74	235.88	3.68	262.96	2.69
4/14/08 23:00	10,440	182.31	1.21	305.81	114.12	215.04	3.92	193.66	9.75	235.87	3.67	262.96	2.69
4/14/08 23:15	10,455	182.30	1.20	305.62	113.93	215.04	3.92	193.66	9.74	235.88	3.68	262.96	2.69
4/14/08 23:30	10,470	182.30	1.20	305.60	113.91	215.03	3.91	193.65	9.74	235.87	3.67	262.95	2.68
4/14/08 23:45	10,485	182.31	1.21	305.73	114.05	215.03	3.92	193.65	9.74	235.87	3.67	262.95	2.68
4/15/08 0:00	10,500	182.30	1.20	306.14	114.45	215.03	3.91	193.65	9.74	235.86	3.67	262.95	2.68
4/15/08 0:15	10,515	182.29	1.19	305.89	114.20	215.03	3.91	193.65	9.74	235.86	3.67	262.95	2.68
4/15/08 0:30	10,530	182.30	1.20	305.94	114.25	215.03	3.91	193.65	9.74	235.86	3.66	262.94	2.67
4/15/08 0:45	10,545	182.30	1.21	305.46	113.77	215.02	3.91	193.64	9.73	235.86	3.66	262.94	2.67
4/15/08 1:00	10,560	182.29	1.19	305.77	114.08	215.03	3.92	193.64	9.73	235.86	3.66	262.94	2.67
4/15/08 1:15	10,575	182.30	1.20	305.64	113.95	215.03	3.91	193.65	9.74	235.85	3.66	262.94	2.67
4/15/08 1:30	10,590	182.29	1.19	305.78	114.10	215.02	3.91	193.65	9.74	235.85	3.66	262.94	2.66
4/15/08 1:45	10,605	182.30	1.20	306.43	114.74	215.02	3.91	193.65	9.74	235.85	3.65	262.93	2.66
4/15/08 2:00	10,620	182.29	1.20	306.01	114.33	215.02	3.91	193.64	9.72	235.84	3.65	262.93	2.66
4/15/08 2:15	10,635	182.28	1.18	306.16	114.47	215.02	3.90	193.64	9.73	235.85	3.66	262.93	2.66
4/15/08 2:30	10,650	182.27	1.18	306.15	114.47	215.01	3.89	193.64	9.73	235.84	3.65	262.92	2.65
4/15/08 2:45	10,665	182.28	1.18	306.02	114.33	215.01	3.89	193.64	9.73	235.84	3.65	262.92	2.65
4/15/08 3:00	10,680	182.28	1.18	306.30	114.61	215.01	3.89	193.63	9.72	235.84	3.64	262.92	2.65
4/15/08 3:15	10,695	182.27	1.17	306.11	114.43	215.01	3.89	193.64	9.72	235.83	3.64	262.91	2.64
4/15/08 3:30	10,710	182.27	1.17	306.28	114.59	215.01	3.89	193.64	9.73	235.83	3.64	262.91	2.64

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT (minutes)	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/15/08 3:45	10,725	182.28	1.18	306.13	114.44	215.00	3.88	193.64	9.73	235.83	3.64	262.92	2.65
4/15/08 4:00	10,740	182.27	1.18	306.16	114.47	215.00	3.88	193.64	9.73	235.83	3.63	262.92	2.65
4/15/08 4:15	10,755	182.27	1.17	306.07	114.38	215.00	3.88	193.64	9.73	235.83	3.63	262.91	2.64
4/15/08 4:30	10,770	182.26	1.16	305.94	114.25	215.00	3.89	193.64	9.73	235.83	3.63	262.92	2.65
4/15/08 4:45	10,785	182.26	1.16	305.72	114.03	215.00	3.88	193.64	9.73	235.83	3.63	262.91	2.64
4/15/08 5:00	10,800	182.27	1.17	306.17	114.49	215.00	3.89	193.64	9.73	235.83	3.64	262.91	2.63
4/15/08 5:15	10,815	182.27	1.17	305.79	114.11	214.99	3.88	193.64	9.73	235.82	3.63	262.90	2.63
4/15/08 5:30	10,830	182.27	1.17	305.86	114.17	215.00	3.88	193.64	9.73	235.82	3.63	262.90	2.63
4/15/08 5:45	10,845	182.27	1.17	305.80	114.11	215.00	3.89	193.65	9.73	235.83	3.63	262.91	2.64
4/15/08 6:00	10,860	182.27	1.17	305.98	114.29	215.00	3.89	193.64	9.73	235.84	3.64	262.91	2.64
4/15/08 6:15	10,875	182.26	1.17	305.52	113.84	215.01	3.89	193.65	9.74	235.84	3.64	262.92	2.65
4/15/08 6:30	10,890	182.28	1.18	305.46	113.77	215.01	3.89	193.65	9.74	235.83	3.63	262.91	2.64
4/15/08 6:45	10,905	182.28	1.18	305.65	113.96	215.01	3.89	193.65	9.74	235.83	3.64	262.91	2.64
4/15/08 7:00	10,920	182.28	1.18	305.89	114.20	215.01	3.89	193.65	9.74	235.84	3.64	262.91	2.64
4/15/08 7:15	10,935	182.27	1.17	305.46	113.78	215.01	3.89	193.66	9.75	235.83	3.64	262.92	2.64
4/15/08 7:30	10,950	182.28	1.18	305.59	113.90	215.00	3.88	193.66	9.74	235.83	3.64	262.91	2.64
4/15/08 7:45	10,965	182.28	1.18	305.37	113.68	215.02	3.90	193.65	9.74	235.84	3.64	262.92	2.65
4/15/08 8:00	10,980	182.29	1.19	299.18	107.49	215.01	3.88	193.66	9.75	235.85	3.65	262.92	2.65
4/15/08 8:15	10,995	182.29	1.19	219.56	27.88	215.02	3.90	193.67	9.75	235.84	3.64	262.92	2.65
4/15/08 8:30	11,010	182.29	1.19	215.41	23.72	215.01	3.90	193.64	9.73	235.84	3.64	262.92	2.65
4/15/08 8:45	11,025	182.29	1.19	212.92	21.23	215.02	3.90	193.61	9.70	235.85	3.65	262.92	2.65
4/15/08 9:00	11,040	182.29	1.19	211.13	19.45	215.01	3.89	193.54	9.63	235.84	3.65	262.92	2.64
4/15/08 9:15	11,055	182.27	1.17	209.77	18.09	215.01	3.90	193.47	9.56	235.85	3.65	262.93	2.65
4/15/08 9:30	11,070	182.28	1.18	208.66	16.98	215.01	3.89	193.38	9.47	235.83	3.64	262.93	2.66
4/15/08 9:45	11,085	182.28	1.18	207.75	16.06	215.01	3.89	193.28	9.37	235.85	3.65	262.93	2.66
4/15/08 10:00	11,100	182.29	1.20	206.96	15.27	215.01	3.89	193.17	9.26	235.84	3.65	262.92	2.65
4/15/08 10:15	11,115	182.29	1.20	206.26	14.57	215.00	3.88	193.05	9.14	235.85	3.65	262.93	2.66
4/15/08 10:30	11,130	182.30	1.20	205.71	14.02	215.00	3.88	192.95	9.04	235.83	3.64	262.92	2.65
4/15/08 10:45	11,145	182.29	1.19	205.18	13.49	214.99	3.87	192.83	8.92	235.82	3.63	262.93	2.66
4/15/08 11:00	11,160	182.29	1.20	204.69	13.01	214.97	3.86	192.71	8.80	235.82	3.63	262.92	2.65
4/15/08 11:15	11,175	182.29	1.19	204.27	12.58	214.96	3.84	192.58	8.67	235.81	3.62	262.92	2.65
4/15/08 11:30	11,190	182.28	1.18	203.87	12.18	214.94	3.82	192.46	8.55	235.80	3.60	262.90	2.63
4/15/08 11:45	11,205	182.29	1.19	203.53	11.84	214.92	3.80	192.35	8.44	235.79	3.60	262.91	2.63
4/15/08 12:00	11,220	182.27	1.18	203.19	11.50	214.91	3.80	192.23	8.32	235.78	3.57	262.92	2.64
4/15/08 12:15	11,235	182.28	1.19	202.90	11.21	214.89	3.78	192.12	8.21	235.75	3.56	262.91	2.64
4/15/08 12:30	11,250	182.28	1.18	202.61	10.92	214.87	3.76	192.00	8.09	235.74	3.54	262.91	2.64
4/15/08 12:45	11,265	182.28	1.18	202.34	10.65	214.85	3.73	191.89	7.97	235.72	3.52	262.90	2.63
4/15/08 13:00	11,280	182.27	1.18	202.06	10.38	214.82	3.71	191.76	7.85	235.70	3.50	262.89	2.62
4/15/08 13:15	11,295	182.28	1.18	201.83	10.14	214.80	3.68	191.66	7.75	235.68	3.48	262.89	2.61
4/15/08 13:30	11,310	182.27	1.17	201.60	9.91	214.78	3.66	191.55	7.64	235.66	3.47	262.87	2.60
4/15/08 13:45	11,325	182.25	1.15	201.42	9.73	214.75	3.64	191.45	7.54	235.64	3.45	262.87	2.59
4/15/08 14:00	11,340	182.26	1.16	201.17	9.48	214.72	3.60	191.35	7.44	235.62	3.43	262.86	2.59
4/15/08 14:15	11,355	182.26	1.16	201.00	9.32	214.71	3.59	191.25	7.34	235.59	3.40	262.86	2.59
4/15/08 14:30	11,370	182.25	1.15	200.84	9.16	214.67	3.56	191.16	7.24	235.59	3.39	262.85	2.58
4/15/08 14:45	11,385	182.25	1.15	200.64	8.95	214.65	3.53	191.06	7.15	235.56	3.36	262.83	2.56
4/15/08 15:00	11,400	182.25	1.16	200.45	8.76	214.62	3.51	190.96	7.05	235.53	3.34	262.83	2.56
4/15/08 15:15	11,415	182.26	1.16	200.31	8.63	214.60	3.49	190.86	6.95	235.51	3.32	262.83	2.55
4/15/08 15:30	11,430	182.25	1.15	200.18	8.49	214.57	3.46	190.77	6.86	235.50	3.31	262.82	2.54
4/15/08 15:45	11,445	182.25	1.15	200.00	8.31	214.55	3.43	190.68	6.77	235.47	3.27	262.82	2.54
4/15/08 16:00	11,460	182.24	1.14	199.90	8.22	214.53	3.41	190.61	6.70	235.45	3.25	262.80	2.53
4/15/08 16:15	11,475	182.24	1.14	199.73	8.04	214.51	3.39	190.52	6.61	235.43	3.23	262.79	2.52
4/15/08 16:30	11,490	182.24	1.14	199.57	7.88	214.47	3.35	190.43	6.52	235.41	3.21	262.78	2.51
4/15/08 16:45	11,505	182.24	1.15	199.46	7.77	214.45	3.34	190.36	6.45	235.39	3.20	262.77	2.50
4/15/08 17:00	11,520	182.23	1.14	199.33	7.64	214.43	3.31	190.29	6.38	235.37	3.18	262.75	2.48
4/15/08 17:15	11,535	182.24	1.14	199.20	7.52	214.41	3.30	190.21	6.30	235.36	3.17	262.76	2.49

Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/15/08 17:30	11,550	182.25	1.15	199.11	7.43	214.39	3.27	190.14	6.23	235.34	3.15	262.74	2.47
4/15/08 17:45	11,565	182.25	1.15	198.98	7.29	214.37	3.25	190.07	6.16	235.33	3.13	262.74	2.47
4/15/08 18:00	11,580	182.24	1.14	198.86	7.17	214.34	3.22	190.00	6.09	235.30	3.11	262.73	2.46
4/15/08 18:15	11,595	182.26	1.16	198.78	7.10	214.33	3.21	189.93	6.02	235.29	3.09	262.73	2.46
4/15/08 18:30	11,610	182.25	1.15	198.68	7.00	214.31	3.19	189.88	5.96	235.27	3.07	262.72	2.45
4/15/08 18:45	11,625	182.26	1.16	198.58	6.90	214.28	3.16	189.80	5.89	235.26	3.07	262.72	2.44
4/15/08 19:00	11,640	182.27	1.17	198.47	6.78	214.27	3.16	189.75	5.84	235.24	3.04	262.72	2.44
4/15/08 19:15	11,655	182.27	1.17	198.41	6.72	214.25	3.14	189.69	5.78	235.22	3.03	262.70	2.43
4/15/08 19:30	11,670	182.27	1.17	198.30	6.61	214.23	3.11	189.63	5.72	235.21	3.02	262.70	2.43
4/15/08 19:45	11,685	182.29	1.19	198.26	6.57	214.21	3.10	189.58	5.67	235.21	3.02	262.71	2.44
4/15/08 20:00	11,700	182.30	1.20	198.16	6.48	214.21	3.10	189.54	5.62	235.21	3.02	262.71	2.44
4/15/08 20:15	11,715	182.32	1.22	198.09	6.40	214.21	3.10	189.50	5.59	235.21	3.01	262.72	2.45
4/15/08 20:30	11,730	182.31	1.21	197.99	6.31	214.19	3.07	189.45	5.54	235.20	3.00	262.72	2.44
4/15/08 20:45	11,745	182.33	1.23	197.90	6.22	214.19	3.07	189.40	5.49	235.18	2.99	262.71	2.44
4/15/08 21:00	11,760	182.34	1.24	197.87	6.18	214.18	3.06	189.34	5.43	235.17	2.97	262.70	2.43
4/15/08 21:15	11,775	182.32	1.23	197.75	6.06	214.15	3.04	189.30	5.38	235.15	2.96	262.70	2.43
4/15/08 21:30	11,790	182.35	1.25	197.74	6.05	214.14	3.02	189.26	5.35	235.14	2.95	262.69	2.42
4/15/08 21:45	11,805	182.35	1.25	197.63	5.94	214.12	3.00	189.20	5.29	235.13	2.93	262.69	2.42
4/15/08 22:00	11,820	182.35	1.25	197.56	5.87	214.11	2.99	189.17	5.26	235.12	2.93	262.69	2.42
4/15/08 22:15	11,835	182.36	1.26	197.53	5.85	214.09	2.97	189.12	5.21	235.12	2.92	262.67	2.40
4/15/08 22:30	11,850	182.36	1.26	197.45	5.76	214.07	2.96	189.06	5.15	235.09	2.90	262.67	2.40
4/15/08 22:45	11,865	182.38	1.28	197.41	5.72	214.06	2.94	189.04	5.13	235.09	2.89	262.68	2.41
4/15/08 23:00	11,880	182.38	1.28	197.34	5.65	214.05	2.94	188.99	5.08	235.08	2.88	262.67	2.40
4/15/08 23:15	11,895	182.38	1.28	197.26	5.57	214.04	2.92	188.94	5.03	235.06	2.86	262.66	2.39
4/15/08 23:30	11,910	182.38	1.28	197.18	5.49	214.02	2.90	188.90	4.99	235.06	2.86	262.65	2.38
4/15/08 23:45	11,925	182.37	1.28	197.17	5.49	214.01	2.89	188.85	4.94	235.05	2.85	262.65	2.38
4/16/08 0:00	11,940	182.37	1.27	197.09	5.40	213.99	2.87	188.82	4.91	235.01	2.82	262.63	2.36
4/16/08 0:15	11,955	182.36	1.26	197.02	5.33	213.96	2.84	188.76	4.85	235.00	2.80	262.62	2.35
4/16/08 0:30	11,970	182.38	1.29	196.96	5.27	213.94	2.83	188.74	4.82	234.99	2.79	262.62	2.34
4/16/08 0:45	11,985	182.38	1.28	196.88	5.19	213.93	2.82	188.69	4.78	234.97	2.78	262.61	2.34
4/16/08 1:00	12,000	182.37	1.27	196.83	5.15	213.92	2.80	188.64	4.73	234.96	2.76	262.59	2.32
4/16/08 1:15	12,015	182.39	1.29	196.78	5.10	213.91	2.79	188.60	4.69	234.96	2.76	262.59	2.32
4/16/08 1:30	12,030	182.37	1.27	196.76	5.07	213.88	2.77	188.56	4.65	234.93	2.73	262.58	2.31
4/16/08 1:45	12,045	182.38	1.28	196.71	5.03	213.86	2.74	188.53	4.62	234.91	2.72	262.55	2.28
4/16/08 2:00	12,060	182.38	1.28	196.64	4.95	213.84	2.73	188.49	4.58	234.90	2.71	262.56	2.28
4/16/08 2:15	12,075	182.38	1.28	196.58	4.89	213.83	2.71	188.45	4.54	234.88	2.69	262.54	2.27
4/16/08 2:30	12,090	182.40	1.30	196.54	4.85	213.82	2.71	188.43	4.52	234.88	2.69	262.55	2.27
4/16/08 2:45	12,105	182.39	1.29	196.48	4.79	213.81	2.69	188.39	4.48	234.86	2.67	262.54	2.27
4/16/08 3:00	12,120	182.38	1.28	196.46	4.77	213.78	2.67	188.35	4.44	234.85	2.65	262.53	2.26
4/16/08 3:15	12,135	182.38	1.28	196.41	4.72	213.78	2.66	188.32	4.41	234.83	2.64	262.52	2.25
4/16/08 3:30	12,150	182.38	1.28	196.35	4.66	213.76	2.64	188.28	4.37	234.82	2.63	262.50	2.23
4/16/08 3:45	12,165	182.38	1.28	196.31	4.62	213.73	2.62	188.24	4.33	234.81	2.61	262.49	2.22
4/16/08 4:00	12,180	182.39	1.29	196.25	4.56	213.73	2.61	188.22	4.31	234.79	2.60	262.49	2.22
4/16/08 4:15	12,195	182.38	1.29	196.20	4.51	213.72	2.60	188.19	4.28	234.78	2.58	262.48	2.21
4/16/08 4:30	12,210	182.39	1.29	196.16	4.47	213.70	2.58	188.16	4.25	234.78	2.59	262.48	2.20
4/16/08 4:45	12,225	182.38	1.29	196.12	4.43	213.68	2.57	188.12	4.21	234.76	2.57	262.47	2.20
4/16/08 5:00	12,240	182.39	1.29	196.12	4.44	213.68	2.56	188.11	4.19	234.75	2.56	262.46	2.19
4/16/08 5:15	12,255	182.40	1.30	196.07	4.38	213.67	2.55	188.07	4.16	234.74	2.54	262.46	2.18
4/16/08 5:30	12,270	182.40	1.31	196.03	4.34	213.66	2.54	188.05	4.14	234.74	2.54	262.44	2.17
4/16/08 5:45	12,285	182.39	1.30	196.01	4.33	213.64	2.53	188.01	4.10	234.72	2.53	262.43	2.16
4/16/08 6:00	12,300	182.41	1.31	195.96	4.27	213.63	2.52	187.98	4.07	234.72	2.53	262.43	2.16
4/16/08 6:15	12,315	182.41	1.31	195.92	4.24	213.63	2.51	187.96	4.05	234.70	2.51	262.43	2.16
4/16/08 6:30	12,330	182.40	1.30	195.88	4.19	213.61	2.50	187.94	4.03	234.69	2.49	262.42	2.15
4/16/08 6:45	12,345	182.41	1.31	195.87	4.18	213.60	2.49	187.91	3.99	234.68	2.48	262.41	2.13
4/16/08 7:00	12,360	182.42	1.32	195.84	4.16	213.58	2.47	187.89	3.98	234.68	2.48	262.40	2.13

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/16/08 7:15	12,375	182.40	1.30	195.79	4.11	213.58	2.47	187.87	3.98	234.66	2.46	262.40	2.13
4/16/08 7:30	12,390	182.41	1.31	195.75	4.06	213.56	2.45	187.83	3.92	234.64	2.45	262.39	2.12
4/16/08 7:45	12,405	182.40	1.30	195.71	4.02	213.56	2.44	187.81	3.90	234.64	2.44	262.39	2.11
4/16/08 8:00	12,420	182.41	1.31	195.69	4.01	213.54	2.43	187.79	3.88	234.63	2.43	262.38	2.11
4/16/08 8:15	12,435	182.42	1.32	195.64	3.95	213.53	2.41	187.76	3.85	234.62	2.43	262.37	2.10
4/16/08 8:30	12,450	182.42	1.32	195.61	3.93	213.53	2.41	187.74	3.83	234.62	2.42	262.36	2.09
4/16/08 8:45	12,465	182.42	1.32	195.58	3.90	213.52	2.40	187.70	3.79	234.59	2.40	262.36	2.09
4/16/08 9:00	12,480	182.42	1.32	195.54	3.85	213.50	2.38	187.69	3.78	234.58	2.38	262.35	2.08
4/16/08 9:15	12,495	182.42	1.32	195.54	3.85	213.48	2.36	187.67	3.76	234.57	2.38	262.36	2.08
4/16/08 9:30	12,510	182.42	1.32	195.52	3.84	213.49	2.37	187.65	3.74	234.58	2.38	262.34	2.07
4/16/08 9:45	12,525	182.41	1.31	195.48	3.79	213.48	2.36	187.63	3.72	234.56	2.37	262.33	2.06
4/16/08 10:00	12,540	182.41	1.31	195.43	3.74	213.47	2.35	187.61	3.70	234.54	2.35	262.33	2.05
4/16/08 10:15	12,555	182.43	1.33	195.41	3.72	213.46	2.34	187.59	3.68	234.54	2.34	262.32	2.05
4/16/08 10:30	12,570	182.42	1.33	195.37	3.69	213.46	2.34	187.57	3.65	234.53	2.33	262.31	2.04
4/16/08 10:45	12,585	182.43	1.33	195.36	3.67	213.44	2.33	187.55	3.63	234.53	2.34	262.31	2.04
4/16/08 11:00	12,600	182.43	1.33	195.34	3.65	213.43	2.31	187.53	3.62	234.52	2.32	262.30	2.03
4/16/08 11:15	12,615	182.42	1.33	195.33	3.65	213.43	2.31	187.52	3.60	234.51	2.32	262.30	2.03
4/16/08 11:30	12,630	182.44	1.34	195.28	3.59	213.42	2.31	187.50	3.59	234.50	2.31	262.30	2.03
4/16/08 11:45	12,645	182.43	1.33	195.24	3.55	213.40	2.29	187.48	3.57	234.50	2.31	262.30	2.02
4/16/08 12:00	12,660	182.43	1.33	195.22	3.53	213.41	2.29	187.45	3.54	234.49	2.29	262.28	2.01
4/16/08 12:15	12,675	182.42	1.32	195.21	3.52	213.39	2.27	187.43	3.52	234.48	2.28	262.27	2.00
4/16/08 12:30	12,690	182.43	1.33	195.13	3.44	213.37	2.26	187.41	3.50	234.46	2.26	262.26	1.99
4/16/08 12:45	12,705	182.43	1.33	195.12	3.44	213.36	2.24	187.39	3.48	234.46	2.26	262.26	1.99
4/16/08 13:00	12,720	182.43	1.33	195.13	3.44	213.35	2.23	187.37	3.46	234.45	2.25	262.25	1.98
4/16/08 13:15	12,735	182.43	1.33	195.10	3.41	213.34	2.22	187.35	3.44	234.44	2.24	262.24	1.97
4/16/08 13:30	12,750	182.41	1.31	195.09	3.40	213.33	2.21	187.33	3.42	234.42	2.22	262.23	1.96
4/16/08 13:45	12,765	182.42	1.32	195.05	3.36	213.32	2.20	187.30	3.39	234.41	2.21	262.23	1.96
4/16/08 14:00	12,780	182.42	1.32	195.01	3.32	213.30	2.19	187.29	3.38	234.39	2.19	262.21	1.94
4/16/08 14:15	12,795	182.41	1.31	194.97	3.28	213.30	2.18	187.27	3.36	234.38	2.19	262.21	1.94
4/16/08 14:30	12,810	182.41	1.31	194.94	3.26	213.28	2.16	187.25	3.34	234.37	2.17	262.20	1.93
4/16/08 14:45	12,825	182.40	1.30	194.92	3.23	213.27	2.15	187.23	3.32	234.36	2.16	262.18	1.91
4/16/08 15:00	12,840	182.41	1.31	194.91	3.22	213.26	2.14	187.21	3.30	234.34	2.15	262.17	1.90
4/16/08 15:15	12,855	182.41	1.31	194.90	3.21	213.25	2.13	187.19	3.28	234.34	2.15	262.16	1.89
4/16/08 15:30	12,870	182.39	1.29	194.87	3.18	213.23	2.12	187.17	3.25	234.33	2.13	262.15	1.88
4/16/08 15:45	12,885	182.38	1.29	194.85	3.16	213.23	2.11	187.15	3.24	234.31	2.11	262.15	1.88
4/16/08 16:00	12,900	182.40	1.30	194.83	3.14	213.21	2.10	187.13	3.22	234.30	2.10	262.14	1.87
4/16/08 16:15	12,915	182.39	1.29	194.82	3.13	213.21	2.09	187.12	3.21	234.30	2.10	262.13	1.86
4/16/08 16:30	12,930	182.39	1.29	194.77	3.08	213.20	2.09	187.09	3.18	234.29	2.09	262.12	1.85
4/16/08 16:45	12,945	182.39	1.29	194.76	3.07	213.19	2.07	187.08	3.17	234.27	2.08	262.11	1.84
4/16/08 17:00	12,960	182.38	1.28	194.72	3.03	213.18	2.07	187.07	3.16	234.27	2.08	262.11	1.84
4/16/08 17:15	12,975	182.39	1.29	194.72	3.03	213.17	2.06	187.05	3.14	234.26	2.06	262.10	1.83
4/16/08 17:30	12,990	182.39	1.29	194.69	3.00	213.16	2.05	187.04	3.12	234.25	2.05	262.10	1.82
4/16/08 17:45	13,005	182.39	1.29	194.68	2.99	213.16	2.04	187.03	3.11	234.25	2.05	262.09	1.82
4/16/08 18:00	13,020	182.39	1.29	194.66	2.97	213.15	2.03	187.01	3.10	234.24	2.05	262.09	1.82
4/16/08 18:15	13,035	182.40	1.30	194.62	2.93	213.15	2.03	187.00	3.09	234.24	2.05	262.09	1.81
4/16/08 18:30	13,050	182.40	1.30	194.62	2.93	213.14	2.02	186.99	3.08	234.23	2.03	262.09	1.82
4/16/08 18:45	13,065	182.40	1.30	194.63	2.94	213.13	2.02	186.97	3.06	234.22	2.03	262.08	1.81
4/16/08 19:00	13,080	182.40	1.30	194.61	2.92	213.13	2.01	186.95	3.04	234.21	2.02	262.07	1.80
4/16/08 19:15	13,095	182.40	1.30	194.61	2.92	213.12	2.00	186.94	3.02	234.21	2.01	262.07	1.79
4/16/08 19:30	13,110	182.41	1.31	194.58	2.90	213.12	2.00	186.92	3.01	234.20	2.01	262.07	1.79
4/16/08 19:45	13,125	182.39	1.30	194.57	2.88	213.11	2.00	186.93	3.02	234.21	2.01	262.06	1.79
4/16/08 20:00	13,140	182.41	1.31	194.56	2.87	213.11	1.99	186.92	3.01	234.20	2.01	262.07	1.79
4/16/08 20:15	13,155	182.40	1.30	194.53	2.84	213.10	1.98	186.90	2.99	234.19	2.00	262.06	1.79
4/16/08 20:30	13,170	182.40	1.31	194.52	2.83	213.10	1.98	186.89	2.98	234.20	2.00	262.05	1.78
4/16/08 20:45	13,185	182.42	1.32	194.49	2.80	213.08	1.97	186.87	2.96	234.18	1.99	262.05	1.78

Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/16/08 21:00	13,200	182.41	1.31	194.47	2.78	213.09	1.97	186.87	2.96	234.19	2.00	262.06	1.78
4/16/08 21:15	13,215	182.42	1.32	194.46	2.77	213.09	1.97	186.87	2.96	234.18	1.98	262.05	1.78
4/16/08 21:30	13,230	182.42	1.32	194.43	2.74	213.08	1.96	186.85	2.94	234.18	1.99	262.04	1.77
4/16/08 21:45	13,245	182.41	1.31	194.45	2.76	213.08	1.96	186.84	2.93	234.18	1.98	262.05	1.78
4/16/08 22:00	13,260	182.42	1.33	194.42	2.74	213.08	1.96	186.83	2.92	234.17	1.97	262.04	1.76
4/16/08 22:15	13,275	182.42	1.32	194.39	2.70	213.05	1.94	186.82	2.91	234.15	1.96	262.03	1.76
4/16/08 22:30	13,290	182.41	1.31	194.39	2.70	213.06	1.94	186.79	2.88	234.15	1.96	262.02	1.75
4/16/08 22:45	13,305	182.41	1.31	194.40	2.71	213.05	1.93	186.80	2.89	234.15	1.96	262.02	1.75
4/16/08 23:00	13,320	182.42	1.32	194.37	2.69	213.05	1.93	186.79	2.88	234.14	1.95	262.01	1.74
4/16/08 23:15	13,335	182.41	1.32	194.37	2.68	213.04	1.93	186.77	2.86	234.14	1.94	262.01	1.74
4/16/08 23:30	13,350	182.41	1.31	194.35	2.66	213.04	1.92	186.76	2.85	234.12	1.93	262.00	1.73
4/16/08 23:45	13,365	182.41	1.31	194.34	2.65	213.03	1.91	186.75	2.84	234.12	1.92	262.00	1.73
4/17/08 0:00	13,380	182.41	1.31	194.28	2.60	213.02	1.90	186.74	2.83	234.12	1.92	262.00	1.72
4/17/08 0:15	13,395	182.41	1.31	194.31	2.63	213.02	1.90	186.73	2.82	234.10	1.91	261.99	1.72
4/17/08 0:30	13,410	182.42	1.32	194.29	2.61	213.00	1.88	186.72	2.81	234.09	1.90	261.98	1.71
4/17/08 0:45	13,425	182.41	1.32	194.28	2.59	213.00	1.89	186.71	2.79	234.09	1.90	261.98	1.71
4/17/08 1:00	13,440	182.40	1.30	194.22	2.53	212.98	1.87	186.69	2.78	234.08	1.88	261.97	1.70
4/17/08 1:15	13,455	182.40	1.30	194.24	2.55	212.98	1.87	186.68	2.76	234.07	1.88	261.96	1.69
4/17/08 1:30	13,470	182.40	1.30	194.21	2.52	212.96	1.85	186.65	2.74	234.06	1.86	261.95	1.68
4/17/08 1:45	13,485	182.39	1.30	194.19	2.50	212.96	1.84	186.63	2.72	234.04	1.85	261.94	1.67
4/17/08 2:00	13,500	182.38	1.28	194.17	2.48	212.94	1.82	186.63	2.72	234.03	1.84	261.93	1.66
4/17/08 2:15	13,515	182.38	1.28	194.14	2.45	212.94	1.82	186.62	2.70	234.03	1.83	261.92	1.65
4/17/08 2:30	13,530	182.38	1.28	194.18	2.49	212.93	1.82	186.59	2.68	234.01	1.82	261.92	1.65
4/17/08 2:45	13,545	182.38	1.28	194.12	2.43	212.92	1.81	186.59	2.68	234.00	1.81	261.90	1.63
4/17/08 3:00	13,560	182.37	1.27	194.11	2.42	212.91	1.79	186.56	2.65	234.00	1.80	261.90	1.63
4/17/08 3:15	13,575	182.36	1.26	194.10	2.41	212.91	1.79	186.56	2.65	234.00	1.80	261.90	1.63
4/17/08 3:30	13,590	182.37	1.27	194.05	2.36	212.89	1.78	186.55	2.64	233.99	1.80	261.88	1.61
4/17/08 3:45	13,605	182.35	1.26	194.10	2.41	212.89	1.78	186.54	2.63	233.99	1.79	261.88	1.61
4/17/08 4:00	13,620	182.36	1.26	194.07	2.38	212.89	1.77	186.53	2.62	233.97	1.78	261.88	1.61
4/17/08 4:15	13,635	182.35	1.25	194.07	2.38	212.88	1.77	186.52	2.61	233.97	1.78	261.87	1.60
4/17/08 4:30	13,650	182.36	1.26	194.00	2.31	212.87	1.75	186.51	2.60	233.97	1.78	261.87	1.60
4/17/08 4:45	13,665	182.35	1.25	194.03	2.35	212.88	1.76	186.51	2.60	233.96	1.76	261.87	1.60
4/17/08 5:00	13,680	182.35	1.25	193.99	2.30	212.87	1.75	186.50	2.59	233.95	1.76	261.86	1.59
4/17/08 5:15	13,695	182.37	1.27	193.97	2.29	212.86	1.75	186.48	2.57	233.96	1.76	261.86	1.59
4/17/08 5:30	13,710	182.36	1.26	193.96	2.27	212.86	1.74	186.48	2.56	233.95	1.76	261.85	1.58
4/17/08 5:45	13,725	182.35	1.26	193.99	2.30	212.85	1.74	186.47	2.56	233.93	1.74	261.85	1.57
4/17/08 6:00	13,740	182.37	1.27	193.98	2.29	212.84	1.72	186.46	2.54	233.93	1.74	261.86	1.58
4/17/08 6:15	13,755	182.35	1.25	193.96	2.27	212.85	1.73	186.46	2.54	233.93	1.74	261.84	1.57
4/17/08 6:30	13,770	182.36	1.26	193.97	2.29	212.84	1.72	186.45	2.54	233.93	1.74	261.84	1.57
4/17/08 6:45	13,785	182.36	1.26	193.96	2.27	212.83	1.71	186.44	2.53	233.92	1.73	261.84	1.57
4/17/08 7:00	13,800	182.36	1.26	193.94	2.25	212.84	1.72	186.43	2.52	233.93	1.74	261.84	1.57
4/17/08 7:15	13,815	182.37	1.27	193.93	2.24	212.83	1.71	186.43	2.51	233.92	1.72	261.84	1.57
4/17/08 7:30	13,830	182.37	1.27	193.92	2.24	212.83	1.72	186.42	2.51	233.91	1.72	261.84	1.57
4/17/08 7:45	13,845	182.37	1.27	193.91	2.22	212.83	1.71	186.42	2.50	233.92	1.72	261.83	1.56
4/17/08 8:00	13,860	182.37	1.27	193.90	2.22	212.82	1.71	186.40	2.48	233.91	1.71	261.83	1.56
4/17/08 8:15	13,875	182.36	1.26	193.89	2.20	212.82	1.70	186.40	2.48	233.90	1.71	261.82	1.55
4/17/08 8:30	13,890	182.38	1.28	193.87	2.18	212.82	1.70	186.39	2.48	233.90	1.70	261.82	1.55
4/17/08 8:45	13,905	182.37	1.27	193.86	2.17	212.81	1.70	186.37	2.46	233.90	1.70	261.82	1.55
4/17/08 9:00	13,920	182.36	1.26	193.85	2.17	212.81	1.70	186.38	2.47	233.89	1.69	261.81	1.54
4/17/08 9:15	13,935	182.38	1.28	193.85	2.16	212.80	1.68	186.37	2.45	233.89	1.69	261.82	1.55
4/17/08 9:30	13,950	182.37	1.27	193.84	2.16	212.80	1.68	186.36	2.45	233.89	1.70	261.81	1.54
4/17/08 9:45	13,965	182.38	1.28	193.82	2.13	212.79	1.67	186.34	2.43	233.88	1.68	261.81	1.53
4/17/08 10:00	13,980	182.37	1.27	193.81	2.12	212.80	1.68	186.35	2.44	233.89	1.69	261.81	1.54
4/17/08 10:15	13,995	182.36	1.27	193.85	2.16	212.79	1.67	186.34	2.43	233.88	1.69	261.80	1.53
4/17/08 10:30	14,010	182.36	1.26	193.85	2.16	212.78	1.67	186.34	2.42	233.88	1.69	261.81	1.54

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/17/08 10:45	14,025	182.36	1.26	193.81	2.13	212.78	1.67	186.33	2.42	233.86	1.67	261.80	1.53
4/17/08 11:00	14,040	182.37	1.27	193.79	2.11	212.78	1.66	186.32	2.41	233.86	1.67	261.79	1.52
4/17/08 11:15	14,055	182.36	1.26	193.79	2.10	212.77	1.65	186.30	2.38	233.85	1.66	261.80	1.53
4/17/08 11:30	14,070	182.36	1.26	193.80	2.11	212.77	1.65	186.30	2.39	233.85	1.65	261.78	1.51
4/17/08 11:45	14,085	182.36	1.26	193.78	2.09	212.76	1.64	186.29	2.38	233.84	1.65	261.77	1.50
4/17/08 12:00	14,100	182.36	1.26	193.75	2.06	212.75	1.64	186.28	2.37	233.83	1.64	261.77	1.49
4/17/08 12:15	14,115	182.35	1.26	193.73	2.04	212.75	1.63	186.27	2.36	233.82	1.63	261.76	1.49
4/17/08 12:30	14,130	182.35	1.25	193.72	2.03	212.74	1.62	186.24	2.33	233.82	1.63	261.75	1.48
4/17/08 12:45	14,145	182.35	1.25	193.71	2.02	212.73	1.61	186.23	2.32	233.81	1.61	261.75	1.48
4/17/08 13:00	14,160	182.34	1.24	193.71	2.02	212.72	1.61	186.24	2.32	233.80	1.61	261.74	1.47
4/17/08 13:15	14,175	182.34	1.24	193.70	2.01	212.72	1.60	186.22	2.31	233.79	1.60	261.74	1.47
4/17/08 13:30	14,190	182.34	1.24	193.68	1.99	212.71	1.59	186.21	2.30	233.79	1.59	261.73	1.46
4/17/08 13:45	14,205	182.32	1.22	193.66	1.97	212.70	1.59	186.20	2.29	233.78	1.59	261.72	1.45
4/17/08 14:00	14,220	182.33	1.23	193.64	1.95	212.69	1.58	186.19	2.28	233.78	1.59	261.73	1.45
4/17/08 14:15	14,235	182.31	1.21	193.63	1.94	212.69	1.57	186.18	2.27	233.77	1.58	261.70	1.43
4/17/08 14:30	14,250	182.32	1.22	193.63	1.94	212.68	1.56	186.17	2.26	233.76	1.57	261.71	1.43
4/17/08 14:45	14,265	182.31	1.21	193.62	1.93	212.67	1.56	186.15	2.23	233.74	1.55	261.69	1.41
4/17/08 15:00	14,280	182.30	1.21	193.62	1.94	212.66	1.54	186.15	2.24	233.74	1.54	261.69	1.42
4/17/08 15:15	14,295	182.30	1.20	193.58	1.89	212.66	1.54	186.14	2.23	233.73	1.54	261.67	1.40
4/17/08 15:30	14,310	182.29	1.19	193.60	1.91	212.64	1.52	186.12	2.21	233.73	1.53	261.68	1.40
4/17/08 15:45	14,325	182.30	1.20	193.55	1.86	212.64	1.53	186.11	2.20	233.71	1.52	261.67	1.39
4/17/08 16:00	14,340	182.29	1.19	193.53	1.84	212.64	1.52	186.10	2.19	233.71	1.51	261.66	1.39
4/17/08 16:15	14,355	182.28	1.18	193.53	1.84	212.63	1.51	186.09	2.18	233.70	1.51	261.64	1.37
4/17/08 16:30	14,370	182.27	1.17	193.52	1.84	212.61	1.49	186.08	2.17	233.69	1.50	261.64	1.37
4/17/08 16:45	14,385	182.28	1.18	193.50	1.82	212.62	1.50	186.08	2.17	233.69	1.49	261.65	1.37
4/17/08 17:00	14,400	182.27	1.18	193.48	1.79	212.61	1.49	186.07	2.16	233.69	1.49	261.63	1.36
4/17/08 17:15	14,415	182.27	1.17	193.47	1.78	212.59	1.47	186.06	2.15	233.67	1.48	261.63	1.36
4/17/08 17:30	14,430	182.27	1.17	193.47	1.78	212.60	1.48	186.05	2.14	233.67	1.47	261.62	1.35
4/17/08 17:45	14,445	182.27	1.17	193.50	1.81	212.59	1.48	186.05	2.13	233.67	1.47	261.61	1.34
4/17/08 18:00	14,460	182.26	1.17	193.49	1.80	212.59	1.47	186.04	2.13	233.66	1.46	261.61	1.34
4/17/08 18:15	14,475	182.26	1.16	193.44	1.75	212.58	1.47	186.03	2.12	233.65	1.46	261.61	1.34
4/17/08 18:30	14,490	182.26	1.16	193.47	1.78	212.58	1.46	186.01	2.10	233.65	1.45	261.60	1.33
4/17/08 18:45	14,505	182.26	1.16	193.46	1.77	212.58	1.46	186.02	2.10	233.65	1.46	261.59	1.32
4/17/08 19:00	14,520	182.26	1.16	193.46	1.77	212.57	1.45	186.01	2.10	233.64	1.44	261.59	1.32
4/17/08 19:15	14,535	182.26	1.16	193.45	1.77	212.57	1.45	186.00	2.09	233.64	1.44	261.59	1.32
4/17/08 19:30	14,550	182.26	1.16	193.42	1.74	212.56	1.44	186.00	2.09	233.64	1.45	261.59	1.32
4/17/08 19:45	14,565	182.26	1.16	193.43	1.74	212.56	1.44	185.99	2.08	233.64	1.44	261.59	1.32
4/17/08 20:00	14,580	182.26	1.16	193.43	1.74	212.56	1.44	185.97	2.06	233.63	1.44	261.59	1.32
4/17/08 20:15	14,595	182.25	1.15	193.43	1.74	212.55	1.44	185.98	2.07	233.62	1.43	261.58	1.31
4/17/08 20:30	14,610	182.25	1.15	193.42	1.74	212.54	1.42	185.98	2.07	233.63	1.43	261.58	1.31
4/17/08 20:45	14,625	182.26	1.16	193.41	1.73	212.55	1.43	185.97	2.06	233.62	1.43	261.58	1.31
4/17/08 21:00	14,640	182.26	1.16	193.39	1.70	212.54	1.43	185.97	2.06	233.62	1.43	261.58	1.31
4/17/08 21:15	14,655	182.26	1.16	193.39	1.71	212.55	1.43	185.97	2.06	233.62	1.42	261.58	1.31
4/17/08 21:30	14,670	182.26	1.16	193.40	1.71	212.54	1.43	185.96	2.05	233.62	1.42	261.58	1.31
4/17/08 21:45	14,685	182.26	1.16	193.41	1.72	212.54	1.43	185.96	2.04	233.62	1.43	261.58	1.30
4/17/08 22:00	14,700	182.25	1.15	193.40	1.71	212.54	1.42	185.95	2.04	233.61	1.42	261.57	1.30
4/17/08 22:15	14,715	182.26	1.16	193.37	1.68	212.54	1.42	185.95	2.03	233.60	1.41	261.57	1.30
4/17/08 22:30	14,730	182.26	1.16	193.36	1.67	212.53	1.42	185.94	2.03	233.60	1.41	261.57	1.30
4/17/08 22:45	14,745	182.26	1.16	193.36	1.67	212.53	1.41	185.93	2.02	233.60	1.40	261.56	1.29
4/17/08 23:00	14,760	182.26	1.16	193.35	1.66	212.53	1.41	185.93	2.02	233.61	1.41	261.56	1.29
4/17/08 23:15	14,775	182.25	1.15	193.37	1.68	212.53	1.41	185.92	2.01	233.60	1.40	261.56	1.29
4/17/08 23:30	14,790	182.24	1.14	193.32	1.63	212.52	1.40	185.92	2.01	233.59	1.39	261.55	1.28
4/17/08 23:45	14,805	182.25	1.15	193.33	1.64	212.52	1.40	185.91	2.00	233.59	1.39	261.56	1.29
4/18/08 0:00	14,820	182.25	1.15	193.32	1.63	212.52	1.40	185.89	1.98	233.59	1.40	261.56	1.28
4/18/08 0:15	14,835	182.24	1.14	193.30	1.61	212.51	1.39	185.90	1.98	233.57	1.38	261.54	1.27

Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/18/08 0:30	14,850	182.25	1.15	193.34	1.66	212.51	1.39	185.89	1.98	233.58	1.39	261.54	1.27
4/18/08 0:45	14,865	182.25	1.15	193.34	1.65	212.50	1.38	185.88	1.97	233.57	1.37	261.54	1.27
4/18/08 1:00	14,880	182.24	1.14	193.33	1.65	212.50	1.38	185.87	1.96	233.57	1.37	261.53	1.26
4/18/08 1:15	14,895	182.23	1.14	193.32	1.63	212.49	1.38	185.87	1.95	233.56	1.37	261.53	1.26
4/18/08 1:30	14,910	182.23	1.13	193.30	1.62	212.49	1.37	185.86	1.95	233.57	1.37	261.53	1.26
4/18/08 1:45	14,925	182.23	1.13	193.31	1.62	212.49	1.37	185.85	1.94	233.55	1.36	261.53	1.26
4/18/08 2:00	14,940	182.23	1.13	193.27	1.58	212.48	1.36	185.85	1.94	233.54	1.34	261.52	1.24
4/18/08 2:15	14,955	182.23	1.13	193.29	1.60	212.47	1.36	185.84	1.93	233.55	1.35	261.51	1.24
4/18/08 2:30	14,970	182.23	1.13	193.28	1.59	212.47	1.35	185.83	1.92	233.53	1.34	261.51	1.24
4/18/08 2:45	14,985	182.23	1.13	193.26	1.57	212.46	1.34	185.82	1.91	233.53	1.33	261.49	1.22
4/18/08 3:00	15,000	182.22	1.12	193.25	1.56	212.46	1.34	185.82	1.91	233.53	1.34	261.50	1.23
4/18/08 3:15	15,015	182.22	1.12	193.25	1.56	212.44	1.32	185.81	1.90	233.52	1.32	261.49	1.22
4/18/08 3:30	15,030	182.21	1.12	193.24	1.56	212.45	1.33	185.81	1.90	233.51	1.31	261.49	1.21
4/18/08 3:45	15,045	182.22	1.12	193.24	1.55	212.44	1.33	185.79	1.88	233.51	1.31	261.48	1.21
4/18/08 4:00	15,060	182.20	1.10	193.22	1.53	212.43	1.31	185.79	1.88	233.51	1.32	261.48	1.21
4/18/08 4:15	15,075	182.20	1.10	193.22	1.53	212.43	1.32	185.79	1.88	233.51	1.32	261.47	1.20
4/18/08 4:30	15,090	182.21	1.11	193.25	1.56	212.43	1.31	185.78	1.86	233.50	1.30	261.47	1.20
4/18/08 4:45	15,105	182.20	1.10	193.22	1.53	212.43	1.31	185.77	1.86	233.49	1.30	261.46	1.19
4/18/08 5:00	15,120	182.21	1.11	193.18	1.50	212.42	1.30	185.77	1.85	233.49	1.30	261.47	1.19
4/18/08 5:15	15,135	182.20	1.10	193.19	1.50	212.42	1.30	185.76	1.85	233.49	1.29	261.47	1.19
4/18/08 5:30	15,150	182.19	1.09	193.18	1.50	212.41	1.29	185.76	1.85	233.48	1.28	261.46	1.19
4/18/08 5:45	15,165	182.19	1.09	193.18	1.49	212.41	1.30	185.74	1.83	233.48	1.29	261.46	1.19
4/18/08 6:00	15,180	182.20	1.10	193.17	1.48	212.41	1.29	185.73	1.82	233.48	1.28	261.45	1.18
4/18/08 6:15	15,195	182.19	1.09	193.16	1.47	212.41	1.29	185.74	1.83	233.49	1.29	261.45	1.18
4/18/08 6:30	15,210	182.19	1.10	193.17	1.48	212.40	1.29	185.74	1.83	233.47	1.28	261.45	1.18
4/18/08 6:45	15,225	182.19	1.09	193.15	1.46	212.41	1.29	185.74	1.83	233.47	1.28	261.45	1.18
4/18/08 7:00	15,240	182.20	1.10	193.14	1.45	212.40	1.29	185.74	1.82	233.47	1.28	261.45	1.18
4/18/08 7:15	15,255	182.20	1.10	193.14	1.45	212.40	1.28	185.72	1.81	233.47	1.28	261.45	1.18
4/18/08 7:30	15,270	182.20	1.10	193.12	1.44	212.40	1.28	185.73	1.82	233.47	1.28	261.45	1.18
4/18/08 7:45	15,285	182.20	1.10	193.16	1.48	212.40	1.28	185.73	1.81	233.47	1.28	261.44	1.17
4/18/08 8:00	15,300	182.20	1.10	193.13	1.44	212.40	1.28	185.72	1.81	233.47	1.27	261.44	1.17
4/18/08 8:15	15,315	182.21	1.11	193.13	1.44	212.40	1.28	185.72	1.81	233.47	1.27	261.44	1.17
4/18/08 8:30	15,330	182.20	1.10	193.12	1.43	212.40	1.28	185.72	1.81	233.48	1.28	261.45	1.17
4/18/08 8:45	15,345	182.20	1.10	193.13	1.44	212.40	1.28	185.72	1.81	233.48	1.28	261.44	1.17
4/18/08 9:00	15,360	182.20	1.10	193.12	1.43	212.39	1.27	185.71	1.80	233.45	1.26	261.44	1.17
4/18/08 9:15	15,375	182.20	1.10	193.14	1.46	212.39	1.27	185.70	1.79	233.47	1.27	261.44	1.16
4/18/08 9:30	15,390	182.20	1.10	193.14	1.46	212.39	1.27	185.70	1.79	233.46	1.26	261.44	1.16
4/18/08 9:45	15,405	182.20	1.10	193.10	1.41	212.39	1.27	185.69	1.77	233.45	1.26	261.44	1.16
4/18/08 10:00	15,420	182.19	1.09	193.13	1.44	212.39	1.27	185.69	1.78	233.45	1.25	261.43	1.16
4/18/08 10:15	15,435	182.20	1.10	193.13	1.44	212.38	1.26	185.68	1.77	233.45	1.25	261.43	1.15
4/18/08 10:30	15,450	182.19	1.09	193.12	1.43	212.38	1.26	185.69	1.78	233.46	1.26	261.43	1.16
4/18/08 10:45	15,465	182.19	1.09	193.12	1.43	212.37	1.25	185.68	1.77	233.45	1.26	261.43	1.15
4/18/08 11:00	15,480	182.19	1.09	193.11	1.42	212.38	1.26	185.68	1.77	233.45	1.25	261.43	1.15
4/18/08 11:15	15,495	182.19	1.09	193.11	1.42	212.37	1.25	185.67	1.76	233.44	1.25	261.42	1.15
4/18/08 11:30	15,510	182.20	1.10	193.09	1.41	212.36	1.24	185.67	1.75	233.44	1.25	261.42	1.15
4/18/08 11:45	15,525	182.20	1.10	193.07	1.38	212.37	1.25	185.66	1.75	233.44	1.24	261.41	1.14
4/18/08 12:00	15,540	182.19	1.09	193.06	1.38	212.36	1.25	185.66	1.75	233.43	1.23	261.41	1.14
4/18/08 12:15	15,555	182.18	1.09	193.09	1.40	212.35	1.23	185.65	1.74	233.43	1.23	261.41	1.14
4/18/08 12:30	15,570	182.19	1.09	193.07	1.38	212.36	1.24	185.65	1.74	233.42	1.22	261.41	1.13
4/18/08 12:45	15,585	182.17	1.08	193.07	1.39	212.34	1.23	185.64	1.73	233.43	1.23	261.40	1.13
4/18/08 13:00	15,600	182.18	1.08	193.06	1.37	212.34	1.22	185.63	1.72	233.42	1.22	261.39	1.12
4/18/08 13:15	15,615	182.17	1.08	193.07	1.38	212.35	1.23	185.62	1.71	233.41	1.21	261.39	1.12
4/18/08 13:30	15,630	182.17	1.07	193.05	1.37	212.33	1.22	185.62	1.71	233.41	1.22	261.39	1.12
4/18/08 13:45	15,645	182.17	1.07	193.04	1.35	212.33	1.21	185.61	1.70	233.39	1.20	261.38	1.11
4/18/08 14:00	15,660	182.16	1.06	193.05	1.37	212.32	1.21	185.60	1.69	233.39	1.19	261.38	1.11

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/18/08 14:15	15,675	182.16	1.06	193.02	1.33	212.32	1.20	185.60	1.69	233.39	1.20	261.37	1.10
4/18/08 14:30	15,690	182.14	1.05	193.01	1.32	212.31	1.19	185.58	1.67	233.38	1.18	261.37	1.10
4/18/08 14:45	15,705	182.14	1.04	193.00	1.31	212.31	1.19	185.59	1.67	233.38	1.19	261.36	1.09
4/18/08 15:00	15,720	182.15	1.05	193.00	1.31	212.30	1.18	185.57	1.66	233.37	1.17	261.36	1.08
4/18/08 15:15	15,735	182.14	1.04	192.98	1.30	212.30	1.18	185.57	1.66	233.37	1.17	261.35	1.08
4/18/08 15:30	15,750	182.13	1.04	192.97	1.29	212.29	1.17	185.56	1.65	233.35	1.16	261.35	1.07
4/18/08 15:45	15,765	182.13	1.03	192.96	1.27	212.28	1.17	185.55	1.64	233.35	1.16	261.33	1.06
4/18/08 16:00	15,780	182.12	1.02	192.96	1.28	212.28	1.16	185.54	1.63	233.34	1.14	261.33	1.06
4/18/08 16:15	15,795	182.11	1.01	192.96	1.27	212.26	1.15	185.54	1.63	233.33	1.14	261.31	1.04
4/18/08 16:30	15,810	182.11	1.01	192.94	1.25	212.27	1.15	185.53	1.62	233.32	1.13	261.32	1.05
4/18/08 16:45	15,825	182.10	1.00	192.93	1.24	212.26	1.15	185.52	1.61	233.33	1.13	261.32	1.04
4/18/08 17:00	15,840	182.10	1.01	192.92	1.23	212.25	1.13	185.52	1.61	233.33	1.13	261.31	1.04
4/18/08 17:15	15,855	182.10	1.00	192.92	1.23	212.25	1.14	185.52	1.61	233.32	1.12	261.31	1.04
4/18/08 17:30	15,870	182.10	1.00	192.90	1.22	212.24	1.12	185.50	1.59	233.31	1.11	261.30	1.03
4/18/08 17:45	15,885	182.10	1.00	192.92	1.23	212.24	1.13	185.50	1.59	233.31	1.11	261.30	1.02
4/18/08 18:00	15,900	182.09	0.99	192.92	1.23	212.23	1.11	185.50	1.58	233.31	1.11	261.29	1.02
4/18/08 18:15	15,915	182.09	0.99	192.90	1.21	212.22	1.11	185.49	1.58	233.31	1.11	261.30	1.02
4/18/08 18:30	15,930	182.08	0.98	192.90	1.21	212.23	1.11	185.49	1.58	233.29	1.10	261.29	1.02
4/18/08 18:45	15,945	182.09	0.99	192.90	1.21	212.23	1.11	185.48	1.57	233.29	1.10	261.28	1.01
4/18/08 19:00	15,960	182.09	1.00	192.87	1.18	212.23	1.11	185.48	1.57	233.29	1.09	261.28	1.01
4/18/08 19:15	15,975	182.09	0.99	192.87	1.18	212.22	1.10	185.46	1.55	233.29	1.09	261.28	1.01
4/18/08 19:30	15,990	182.08	0.98	192.87	1.18	212.22	1.11	185.47	1.56	233.28	1.09	261.28	1.01
4/18/08 19:45	16,005	182.08	0.98	192.88	1.19	212.21	1.09	185.47	1.56	233.28	1.09	261.27	1.00
4/18/08 20:00	16,020	182.09	0.99	192.85	1.16	212.22	1.10	185.47	1.56	233.29	1.10	261.28	1.01
4/18/08 20:15	16,035	182.09	0.99	192.88	1.19	212.22	1.10	185.46	1.55	233.28	1.09	261.27	1.00
4/18/08 20:30	16,050	182.08	0.98	192.88	1.19	212.22	1.10	185.47	1.56	233.28	1.09	261.28	1.01
4/18/08 20:45	16,065	182.10	1.00	192.87	1.18	212.22	1.10	185.47	1.56	233.28	1.09	261.28	1.01
4/18/08 21:00	16,080	182.10	1.00	192.87	1.18	212.22	1.10	185.46	1.55	233.28	1.09	261.28	1.01
4/18/08 21:15	16,095	182.09	0.99	192.85	1.16	212.22	1.10	185.47	1.56	233.29	1.09	261.28	1.01
4/18/08 21:30	16,110	182.10	1.00	192.90	1.22	212.22	1.10	185.46	1.55	233.30	1.10	261.28	1.01
4/18/08 21:45	16,125	182.09	0.99	192.91	1.22	212.22	1.10	185.46	1.55	233.29	1.10	261.28	1.01
4/18/08 22:00	16,140	182.10	1.00	192.85	1.16	212.22	1.10	185.46	1.54	233.28	1.09	261.27	1.00
4/18/08 22:15	16,155	182.10	1.00	192.87	1.19	212.22	1.10	185.46	1.55	233.28	1.09	261.28	1.01
4/18/08 22:30	16,170	182.10	1.00	192.89	1.20	212.22	1.10	185.46	1.55	233.28	1.09	261.28	1.01
4/18/08 22:45	16,185	182.09	1.00	192.85	1.16	212.21	1.09	185.46	1.54	233.29	1.09	261.28	1.01
4/18/08 23:00	16,200	182.10	1.00	192.87	1.19	212.21	1.09	185.45	1.54	233.28	1.09	261.28	1.01
4/18/08 23:15	16,215	182.10	1.00	192.88	1.19	212.20	1.08	185.45	1.54	233.29	1.10	261.28	1.01
4/18/08 23:30	16,230	182.10	1.00	192.88	1.19	212.21	1.09	185.45	1.54	233.28	1.09	261.28	1.00
4/18/08 23:45	16,245	182.09	1.00	192.88	1.19	212.21	1.09	185.45	1.54	233.28	1.08	261.28	1.01
4/19/08 0:00	16,260	182.10	1.00	192.86	1.18	212.21	1.09	185.44	1.53	233.28	1.09	261.27	1.00
4/19/08 0:15	16,275	182.10	1.00	192.86	1.17	212.20	1.08	185.44	1.53	233.28	1.08	261.27	1.00
4/19/08 0:30	16,290	182.10	1.00	192.83	1.14	212.20	1.09	185.44	1.52	233.27	1.08	261.28	1.01
4/19/08 0:45	16,305	182.10	1.00	192.86	1.17	212.21	1.09	185.43	1.52	233.28	1.09	261.27	1.00
4/19/08 1:00	16,320	182.08	0.99	192.85	1.17	212.19	1.08	185.43	1.52	233.27	1.07	261.26	0.99
4/19/08 1:15	16,335	182.08	0.98	192.86	1.17	212.21	1.09	185.43	1.51	233.27	1.08	261.26	0.99
4/19/08 1:30	16,350	182.08	0.98	192.83	1.14	212.20	1.08	185.42	1.51	233.25	1.06	261.26	0.99
4/19/08 1:45	16,365	182.08	0.98	192.83	1.14	212.19	1.08	185.42	1.51	233.26	1.07	261.25	0.97
4/19/08 2:00	16,380	182.08	0.98	192.84	1.16	212.20	1.08	185.42	1.51	233.26	1.07	261.26	0.98
4/19/08 2:15	16,395	182.09	0.99	192.83	1.14	212.19	1.08	185.42	1.50	233.27	1.07	261.26	0.99
4/19/08 2:30	16,410	182.08	0.98	192.84	1.15	212.19	1.07	185.41	1.50	233.25	1.06	261.25	0.98
4/19/08 2:45	16,425	182.08	0.98	192.82	1.13	212.18	1.07	185.40	1.49	233.26	1.06	261.25	0.98
4/19/08 3:00	16,440	182.08	0.98	192.81	1.13	212.17	1.05	185.40	1.48	233.26	1.06	261.25	0.97
4/19/08 3:15	16,455	182.08	0.98	192.82	1.14	212.18	1.06	185.40	1.49	233.24	1.05	261.25	0.97
4/19/08 3:30	16,470	182.07	0.97	192.80	1.11	212.16	1.05	185.39	1.48	233.24	1.04	261.24	0.97
4/19/08 3:45	16,485	182.06	0.96	192.80	1.12	212.17	1.05	185.39	1.48	233.24	1.04	261.23	0.96

Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/19/08 4:00	16,500	182.07	0.97	192.80	1.11	212.16	1.04	185.39	1.48	233.25	1.05	261.24	0.97
4/19/08 4:15	16,515	182.07	0.97	192.80	1.12	212.16	1.04	185.38	1.47	233.24	1.04	261.24	0.97
4/19/08 4:30	16,530	182.07	0.97	192.78	1.10	212.16	1.04	185.38	1.47	233.24	1.05	261.23	0.96
4/19/08 4:45	16,545	182.07	0.97	192.79	1.11	212.16	1.04	185.37	1.46	233.24	1.05	261.23	0.96
4/19/08 5:00	16,560	182.07	0.97	192.78	1.10	212.15	1.03	185.37	1.46	233.24	1.04	261.23	0.96
4/19/08 5:15	16,575	182.06	0.97	192.78	1.09	212.16	1.04	185.37	1.46	233.23	1.04	261.23	0.96
4/19/08 5:30	16,590	182.07	0.97	192.78	1.09	212.16	1.04	185.37	1.46	233.23	1.03	261.23	0.96
4/19/08 5:45	16,605	182.06	0.96	192.79	1.10	212.15	1.04	185.37	1.46	233.23	1.04	261.23	0.96
4/19/08 6:00	16,620	182.07	0.97	192.80	1.11	212.16	1.04	185.36	1.45	233.23	1.04	261.22	0.95
4/19/08 6:15	16,635	182.06	0.96	192.76	1.07	212.15	1.04	185.36	1.45	233.21	1.02	261.22	0.95
4/19/08 6:30	16,650	182.07	0.97	192.78	1.09	212.15	1.04	185.36	1.45	233.23	1.04	261.23	0.96
4/19/08 6:45	16,665	182.07	0.97	192.77	1.08	212.15	1.03	185.36	1.45	233.22	1.03	261.23	0.96
4/19/08 7:00	16,680	182.06	0.97	192.74	1.05	212.15	1.04	185.36	1.45	233.22	1.03	261.23	0.96
4/19/08 7:15	16,695	182.07	0.97	192.76	1.07	212.15	1.04	185.36	1.45	233.23	1.03	261.23	0.96
4/19/08 7:30	16,710	182.06	0.96	192.75	1.06	212.15	1.03	185.35	1.44	233.22	1.03	261.22	0.95
4/19/08 7:45	16,725	182.06	0.96	192.74	1.05	212.15	1.04	185.35	1.44	233.22	1.03	261.23	0.96
4/19/08 8:00	16,740	182.07	0.97	192.75	1.06	212.14	1.02	185.35	1.44	233.23	1.03	261.23	0.96
4/19/08 8:15	16,755	182.07	0.97	192.74	1.05	212.14	1.03	185.34	1.43	233.23	1.03	261.23	0.96
4/19/08 8:30	16,770	182.06	0.96	192.74	1.06	212.14	1.02	185.35	1.44	233.22	1.03	261.22	0.95
4/19/08 8:45	16,785	182.07	0.97	192.74	1.05	212.15	1.03	185.35	1.44	233.23	1.04	261.23	0.96
4/19/08 9:00	16,800	182.08	0.98	192.74	1.05	212.14	1.02	185.35	1.44	233.23	1.04	261.22	0.95
4/19/08 9:15	16,815	182.07	0.97	192.75	1.07	212.15	1.03	185.34	1.43	233.23	1.04	261.22	0.95
4/19/08 9:30	16,830	182.07	0.97	192.73	1.04	212.15	1.03	185.34	1.43	233.22	1.03	261.24	0.97
4/19/08 9:45	16,845	182.08	0.98	192.80	1.11	212.15	1.03	185.35	1.44	233.22	1.02	261.23	0.96
4/19/08 10:00	16,860	182.08	0.98	192.74	1.05	212.15	1.03	185.33	1.42	233.22	1.03	261.23	0.95
4/19/08 10:15	16,875	182.07	0.97	192.75	1.06	212.14	1.02	185.34	1.43	233.22	1.02	261.23	0.96
4/19/08 10:30	16,890	182.08	0.98	192.77	1.08	212.15	1.03	185.34	1.43	233.23	1.03	261.23	0.96
4/19/08 10:45	16,905	182.07	0.97	192.77	1.08	212.15	1.03	185.34	1.43	233.22	1.02	261.23	0.96
4/19/08 11:00	16,920	182.07	0.97	192.77	1.08	212.15	1.03	185.34	1.43	233.22	1.03	261.23	0.96
4/19/08 11:15	16,935	182.06	0.96	192.71	1.03	212.15	1.03	185.33	1.42	233.22	1.02	261.23	0.96
4/19/08 11:30	16,950	182.07	0.97	192.73	1.05	212.14	1.02	185.33	1.42	233.21	1.02	261.22	0.95
4/19/08 11:45	16,965	182.07	0.97	192.71	1.03	212.13	1.01	185.32	1.40	233.21	1.02	261.22	0.95
4/19/08 12:00	16,980	182.07	0.97	192.73	1.05	212.14	1.02	185.33	1.41	233.22	1.02	261.22	0.94
4/19/08 12:15	16,995	182.06	0.96	192.72	1.03	212.13	1.02	185.32	1.41	233.20	1.01	261.21	0.94
4/19/08 12:30	17,010	182.06	0.96	192.69	1.00	212.12	1.00	185.31	1.40	233.19	1.00	261.21	0.94
4/19/08 12:45	17,025	182.06	0.96	192.74	1.06	212.13	1.01	185.31	1.39	233.20	1.00	261.20	0.92
4/19/08 13:00	17,040	182.05	0.95	192.68	0.99	212.12	1.00	185.30	1.39	233.19	1.00	261.20	0.93
4/19/08 13:15	17,055	182.05	0.95	192.73	1.04	212.12	1.00	185.30	1.39	233.19	0.99	261.20	0.93
4/19/08 13:30	17,070	182.05	0.95	192.67	0.98	212.10	0.98	185.29	1.38	233.18	0.99	261.20	0.93
4/19/08 13:45	17,085	182.04	0.95	192.68	0.99	212.10	0.98	185.28	1.37	233.18	0.99	261.20	0.92
4/19/08 14:00	17,100	182.04	0.94	192.70	1.01	212.10	0.99	185.28	1.37	233.17	0.98	261.18	0.91
4/19/08 14:15	17,115	182.03	0.93	192.70	1.01	212.09	0.97	185.27	1.36	233.17	0.97	261.18	0.91
4/19/08 14:30	17,130	182.02	0.92	192.65	0.96	212.08	0.97	185.27	1.35	233.16	0.96	261.16	0.89
4/19/08 14:45	17,145	182.00	0.90	192.67	0.98	212.08	0.96	185.26	1.35	233.15	0.95	261.16	0.88
4/19/08 15:00	17,160	182.01	0.91	192.68	0.99	212.07	0.96	185.25	1.34	233.14	0.95	261.16	0.88
4/19/08 15:15	17,175	182.01	0.91	192.61	0.93	212.07	0.95	185.25	1.34	233.14	0.94	261.15	0.88
4/19/08 15:30	17,190	182.00	0.90	192.59	0.90	212.06	0.94	185.23	1.32	233.13	0.93	261.14	0.87
4/19/08 15:45	17,205	182.00	0.90	192.66	0.97	212.05	0.93	185.23	1.32	233.12	0.93	261.14	0.87
4/19/08 16:00	17,220	181.99	0.90	192.62	0.93	212.05	0.93	185.22	1.31	233.12	0.93	261.13	0.86
4/19/08 16:15	17,235	181.99	0.89	192.64	0.95	212.04	0.93	185.21	1.30	233.12	0.93	261.13	0.86
4/19/08 16:30	17,250	181.98	0.88	192.63	0.94	212.04	0.92	185.21	1.30	233.11	0.92	261.12	0.85
4/19/08 16:45	17,265	181.97	0.87	192.59	0.90	212.02	0.90	185.20	1.29	233.10	0.91	261.11	0.84
4/19/08 17:00	17,280	181.97	0.87	192.60	0.91	212.02	0.90	185.20	1.29	233.11	0.91	261.11	0.84
4/19/08 17:15	17,295	181.97	0.87	192.60	0.91	212.03	0.91	185.20	1.29	233.09	0.90	261.11	0.83
4/19/08 17:30	17,310	181.96	0.86	192.61	0.92	212.01	0.89	185.19	1.28	233.09	0.89	261.10	0.83

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1		3CCPW-2		3CCOW-2		3CCOW-3		3CCOW-4		3CCOW-5	
		DTW (ft)	Drawdown	DTW (ft)	Drawdown	DTW (ft)	Drawdown	DTW (ft)	Drawdown	DTW (ft)	Drawdown	DTW (ft)	Drawdown
4/19/08 17:45	17,325	181.95	0.85	192.60	0.91	212.01	0.90	185.18	1.27	233.09	0.89	261.09	0.82
4/19/08 18:00	17,340	181.94	0.84	192.59	0.90	212.01	0.89	185.18	1.27	233.09	0.89	261.09	0.81
4/19/08 18:15	17,355	181.95	0.85	192.59	0.90	212.00	0.89	185.18	1.27	233.08	0.88	261.08	0.81
4/19/08 18:30	17,370	181.95	0.85	192.58	0.89	212.00	0.89	185.18	1.27	233.07	0.87	261.09	0.82
4/19/08 18:45	17,385	181.96	0.86	192.58	0.89	211.99	0.88	185.17	1.26	233.08	0.88	261.08	0.81
4/19/08 19:00	17,400	181.95	0.86	192.53	0.85	212.00	0.88	185.16	1.25	233.07	0.88	261.08	0.81
4/19/08 19:15	17,415	181.95	0.86	192.56	0.88	212.00	0.88	185.17	1.26	233.08	0.89	261.09	0.81
4/19/08 19:30	17,430	181.95	0.85	192.57	0.88	212.00	0.88	185.17	1.26	233.07	0.87	261.09	0.82
4/19/08 19:45	17,445	181.95	0.86	192.58	0.89	212.00	0.88	185.16	1.25	233.08	0.88	261.08	0.81
4/19/08 20:00	17,460	181.96	0.86	192.58	0.89	211.99	0.88	185.16	1.25	233.07	0.87	261.09	0.82
4/19/08 20:15	17,475	181.96	0.86	192.57	0.89	212.00	0.88	185.17	1.26	233.08	0.88	261.09	0.82
4/19/08 20:30	17,490	181.96	0.86	192.57	0.89	212.00	0.88	185.17	1.26	233.08	0.88	261.09	0.82
4/19/08 20:45	17,505	181.94	0.84	192.56	0.88	211.99	0.87	185.16	1.25	233.08	0.89	261.09	0.82
4/19/08 21:00	17,520	181.95	0.85	192.58	0.89	212.01	0.89	185.17	1.26	233.08	0.88	261.10	0.83
4/19/08 21:15	17,535	181.95	0.85	192.57	0.88	212.00	0.88	185.16	1.25	233.07	0.88	261.09	0.82
4/19/08 21:30	17,550	181.95	0.85	192.55	0.86	211.99	0.88	185.16	1.25	233.07	0.87	261.08	0.81
4/19/08 21:45	17,565	181.96	0.86	192.56	0.87	211.99	0.88	185.15	1.24	233.07	0.88	261.08	0.81
4/19/08 22:00	17,580	181.95	0.85	192.56	0.87	212.00	0.88	185.15	1.24	233.07	0.88	261.08	0.81
4/19/08 22:15	17,595	181.95	0.85	192.56	0.87	211.99	0.88	185.15	1.23	233.07	0.87	261.09	0.82
4/19/08 22:30	17,610	181.96	0.86	192.57	0.88	211.99	0.88	185.15	1.24	233.07	0.87	261.08	0.81
4/19/08 22:45	17,625	181.96	0.86	192.55	0.86	211.98	0.86	185.15	1.24	233.06	0.86	261.08	0.81
4/19/08 23:00	17,640	181.95	0.85	192.53	0.84	211.99	0.87	185.14	1.23	233.07	0.88	261.08	0.81
4/19/08 23:15	17,655	181.94	0.84	192.54	0.85	211.99	0.87	185.15	1.23	233.06	0.86	261.08	0.81
4/19/08 23:30	17,670	181.93	0.83	192.54	0.85	211.98	0.87	185.13	1.22	233.05	0.86	261.08	0.80
4/19/08 23:45	17,685	181.93	0.83	192.54	0.85	211.98	0.86	185.13	1.22	233.06	0.86	261.06	0.79
4/20/08 0:00	17,700	181.94	0.84	192.52	0.83	211.97	0.85	185.14	1.22	233.05	0.85	261.07	0.79
4/20/08 0:15	17,715	181.93	0.83	192.54	0.85	211.97	0.85	185.14	1.22	233.05	0.86	261.06	0.79
4/20/08 0:30	17,730	181.92	0.82	192.51	0.83	211.97	0.85	185.13	1.22	233.04	0.84	261.06	0.79
4/20/08 0:45	17,745	181.93	0.84	192.53	0.84	211.97	0.86	185.13	1.22	233.05	0.86	261.07	0.79
4/20/08 1:00	17,760	181.93	0.83	192.52	0.83	211.97	0.85	185.12	1.21	233.04	0.85	261.06	0.79
4/20/08 1:15	17,775	181.94	0.84	192.52	0.84	211.96	0.84	185.13	1.22	233.05	0.86	261.05	0.78
4/20/08 1:30	17,790	181.92	0.82	192.54	0.85	211.97	0.85	185.12	1.21	233.04	0.84	261.06	0.79
4/20/08 1:45	17,805	181.93	0.83	192.53	0.84	211.96	0.84	185.11	1.20	233.04	0.84	261.05	0.78
4/20/08 2:00	17,820	181.92	0.83	192.50	0.81	211.95	0.84	185.11	1.20	233.03	0.84	261.04	0.77
4/20/08 2:15	17,835	181.92	0.82	192.48	0.79	211.94	0.82	185.10	1.19	233.02	0.83	261.04	0.77
4/20/08 2:30	17,850	181.91	0.81	192.49	0.80	211.94	0.82	185.10	1.19	233.02	0.82	261.03	0.76
4/20/08 2:45	17,865	181.90	0.80	192.47	0.78	211.93	0.81	185.09	1.18	233.01	0.82	261.03	0.76
4/20/08 3:00	17,880	181.90	0.80	192.50	0.81	211.92	0.81	185.08	1.17	233.01	0.82	261.02	0.75
4/20/08 3:15	17,895	181.89	0.79	192.50	0.81	211.93	0.81	185.07	1.16	233.00	0.80	261.02	0.74
4/20/08 3:30	17,910	181.88	0.78	192.46	0.77	211.93	0.81	185.08	1.16	233.00	0.81	261.01	0.73
4/20/08 3:45	17,925	181.90	0.81	192.49	0.81	211.92	0.80	185.08	1.17	232.99	0.80	261.01	0.74
4/20/08 4:00	17,940	181.90	0.80	192.48	0.80	211.92	0.80	185.07	1.16	232.99	0.79	261.01	0.73
4/20/08 4:15	17,955	181.90	0.80	192.48	0.80	211.93	0.81	185.06	1.15	233.00	0.80	261.00	0.73
4/20/08 4:30	17,970	181.90	0.80	192.47	0.78	211.93	0.81	185.08	1.16	232.99	0.80	261.00	0.73
4/20/08 4:45	17,985	181.89	0.79	192.45	0.76	211.93	0.81	185.07	1.16	232.98	0.78	261.00	0.72
4/20/08 5:00	18,000	181.89	0.79	192.47	0.78	211.92	0.80	185.06	1.15	232.98	0.78	261.00	0.72
4/20/08 5:15	18,015	181.89	0.79	192.45	0.76	211.92	0.80	185.05	1.14	232.98	0.78	261.00	0.72
4/20/08 5:30	18,030	181.88	0.78	192.47	0.78	211.92	0.80	185.06	1.15	232.97	0.78	260.99	0.72
4/20/08 5:45	18,045	181.88	0.78	192.47	0.78	211.90	0.79	185.06	1.15	232.97	0.77	260.98	0.71
4/20/08 6:00	18,060	181.89	0.79	192.45	0.77	211.91	0.80	185.05	1.15	232.97	0.78	260.98	0.71
4/20/08 6:15	18,075	181.89	0.79	192.47	0.78	211.91	0.79	185.05	1.14	232.97	0.77	260.99	0.72
4/20/08 6:30	18,090	181.89	0.79	192.45	0.76	211.91	0.79	185.04	1.13	232.98	0.78	260.98	0.71
4/20/08 6:45	18,105	181.87	0.78	192.43	0.74	211.90	0.78	185.04	1.13	232.97	0.77	260.99	0.72
4/20/08 7:00	18,120	181.89	0.79	192.48	0.79	211.91	0.79	185.05	1.14	232.97	0.78	260.99	0.72
4/20/08 7:15	18,135	181.88	0.78	192.48	0.79	211.90	0.78	185.05	1.14	232.98	0.78	261.00	0.73

Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/20/08 7:30	18,150	181.89	0.79	192.48	0.79	211.91	0.79	185.05	1.14	232.98	0.79	260.99	0.72
4/20/08 7:45	18,165	181.89	0.79	192.46	0.77	211.91	0.79	185.05	1.13	232.96	0.77	260.99	0.72
4/20/08 8:00	18,180	181.88	0.78	192.46	0.78	211.90	0.79	185.05	1.14	232.97	0.77	260.99	0.72
4/20/08 8:15	18,195	181.88	0.78	192.47	0.78	211.91	0.79	185.05	1.13	232.98	0.78	261.00	0.73
4/20/08 8:30	18,210	181.88	0.78	192.47	0.78	211.90	0.78	185.04	1.13	232.98	0.78	261.00	0.73
4/20/08 8:45	18,225	181.89	0.79	192.47	0.79	211.91	0.79	185.03	1.12	232.99	0.79	261.00	0.73
4/20/08 9:00	18,240	181.89	0.79	192.48	0.79	211.91	0.79	185.04	1.13	232.98	0.78	261.00	0.73
4/20/08 9:15	18,255	181.89	0.79	192.42	0.74	211.90	0.78	185.04	1.13	232.98	0.78	261.00	0.73
4/20/08 9:30	18,270	181.89	0.79	192.46	0.77	211.91	0.79	185.03	1.12	232.98	0.78	260.99	0.72
4/20/08 9:45	18,285	181.89	0.79	192.47	0.78	211.91	0.79	185.04	1.13	232.98	0.79	260.99	0.72
4/20/08 10:00	18,300	181.88	0.78	192.47	0.78	211.91	0.79	185.04	1.13	232.98	0.78	261.00	0.73
4/20/08 10:15	18,315	181.88	0.78	192.45	0.76	211.91	0.79	185.04	1.13	232.98	0.78	261.00	0.73
4/20/08 10:30	18,330	181.88	0.78	192.47	0.78	211.91	0.79	185.04	1.13	232.98	0.79	261.00	0.73
4/20/08 10:45	18,345	181.89	0.79	192.46	0.77	211.91	0.79	185.04	1.13	232.99	0.79	260.99	0.72
4/20/08 11:00	18,360	181.89	0.79	192.46	0.77	211.90	0.79	185.04	1.12	232.98	0.79	260.99	0.72
4/20/08 11:15	18,375	181.88	0.78	192.42	0.73	211.90	0.79	185.04	1.13	232.97	0.78	261.00	0.73
4/20/08 11:30	18,390	181.90	0.80	192.46	0.77	211.91	0.79	185.03	1.12	232.97	0.78	261.00	0.73
4/20/08 11:45	18,405	181.89	0.79	192.45	0.77	211.90	0.79	185.04	1.13	232.98	0.78	261.01	0.73
4/20/08 12:00	18,420	181.89	0.79	192.44	0.76	211.90	0.78	185.03	1.12	232.98	0.78	261.00	0.73
4/20/08 12:15	18,435	181.90	0.80	192.45	0.76	211.90	0.78	185.03	1.12	232.97	0.78	261.00	0.73
4/20/08 12:30	18,450	181.89	0.79	192.46	0.77	211.90	0.78	185.02	1.11	232.98	0.78	261.00	0.73
4/20/08 12:45	18,465	181.89	0.79	192.42	0.73	211.89	0.77	185.03	1.12	232.98	0.78	261.00	0.73
4/20/08 13:00	18,480	181.87	0.77	192.46	0.78	211.89	0.78	185.02	1.11	232.98	0.78	260.98	0.71
4/20/08 13:15	18,495	181.88	0.78	192.43	0.74	211.90	0.78	185.02	1.11	232.98	0.79	261.00	0.73
4/20/08 13:30	18,510	181.87	0.77	192.43	0.75	211.90	0.78	185.01	1.10	232.98	0.78	260.99	0.72
4/20/08 13:45	18,525	181.88	0.78	192.45	0.76	211.88	0.77	185.02	1.11	232.97	0.77	261.00	0.72
4/20/08 14:00	18,540	181.87	0.78	192.38	0.70	211.89	0.77	185.01	1.10	232.96	0.77	260.99	0.72
4/20/08 14:15	18,555	181.87	0.77	192.44	0.75	211.88	0.76	185.01	1.10	232.96	0.76	260.98	0.71
4/20/08 14:30	18,570	181.86	0.76	192.42	0.73	211.88	0.76	185.01	1.10	232.95	0.76	260.98	0.71
4/20/08 14:45	18,585	181.87	0.77	192.41	0.72	211.88	0.76	185.00	1.09	232.95	0.76	260.97	0.70
4/20/08 15:00	18,600	181.86	0.76	192.41	0.73	211.88	0.76	185.00	1.09	232.96	0.76	260.97	0.69
4/20/08 15:15	18,615	181.85	0.75	192.40	0.71	211.87	0.76	184.99	1.08	232.95	0.75	260.97	0.70
4/20/08 15:30	18,630	181.86	0.76	192.39	0.70	211.86	0.74	184.98	1.07	232.94	0.75	260.97	0.69
4/20/08 15:45	18,645	181.85	0.75	192.39	0.71	211.86	0.74	184.98	1.07	232.94	0.75	260.96	0.69
4/20/08 16:00	18,660	181.84	0.75	192.40	0.71	211.86	0.75	184.99	1.07	232.94	0.74	260.96	0.69
4/20/08 16:15	18,675	181.85	0.75	192.39	0.70	211.86	0.74	184.98	1.07	232.94	0.75	260.96	0.69
4/20/08 16:30	18,690	181.84	0.74	192.39	0.70	211.86	0.75	184.97	1.06	232.94	0.74	260.95	0.68
4/20/08 16:45	18,705	181.83	0.73	192.40	0.71	211.85	0.73	184.97	1.06	232.92	0.73	260.95	0.67
4/20/08 17:00	18,720	181.83	0.73	192.36	0.68	211.85	0.73	184.97	1.06	232.92	0.73	260.95	0.68
4/20/08 17:15	18,735	181.82	0.73	192.39	0.70	211.85	0.73	184.97	1.06	232.92	0.73	260.94	0.67
4/20/08 17:30	18,750	181.84	0.74	192.40	0.71	211.86	0.74	184.98	1.07	232.93	0.74	260.96	0.69
4/20/08 17:45	18,765	181.85	0.76	192.43	0.74	211.87	0.75	184.99	1.08	232.94	0.75	260.97	0.69
4/20/08 18:00	18,780	181.86	0.76	192.41	0.72	211.87	0.76	184.99	1.08	232.95	0.75	260.98	0.71
4/20/08 18:15	18,795	181.86	0.76	192.41	0.72	211.87	0.76	185.00	1.09	232.95	0.75	260.98	0.71
4/20/08 18:30	18,810	181.86	0.77	192.41	0.72	211.88	0.76	185.00	1.09	232.96	0.77	260.98	0.71
4/20/08 18:45	18,825	181.86	0.76	192.41	0.72	211.88	0.76	184.99	1.08	232.96	0.76	260.98	0.71
4/20/08 19:00	18,840	181.87	0.77	192.42	0.73	211.88	0.76	185.00	1.09	232.96	0.76	260.98	0.71
4/20/08 19:15	18,855	181.86	0.76	192.43	0.74	211.88	0.76	185.00	1.09	232.96	0.77	260.99	0.72
4/20/08 19:30	18,870	181.87	0.77	192.42	0.74	211.88	0.77	185.01	1.09	232.97	0.77	261.00	0.72
4/20/08 19:45	18,885	181.88	0.78	192.44	0.75	211.89	0.77	185.01	1.10	232.97	0.77	261.00	0.73
4/20/08 20:00	18,900	181.89	0.79	192.43	0.74	211.89	0.77	185.01	1.10	232.99	0.79	261.01	0.74
4/20/08 20:15	18,915	181.90	0.80	192.45	0.76	211.90	0.79	185.02	1.11	232.99	0.79	261.01	0.74
4/20/08 20:30	18,930	181.90	0.80	192.46	0.77	211.90	0.78	185.03	1.11	233.00	0.81	261.02	0.75
4/20/08 20:45	18,945	181.91	0.81	192.43	0.74	211.92	0.80	185.03	1.12	233.01	0.82	261.03	0.76
4/20/08 21:00	18,960	181.91	0.81	192.47	0.78	211.92	0.80	185.04	1.12	233.01	0.81	261.03	0.76

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CCOW-1 DTW (ft)	3CCOW-1 Drawdown	3CCPW-2 DTW (ft)	3CCPW-2 Drawdown	3CCOW-2 DTW (ft)	3CCOW-2 Drawdown	3CCOW-3 DTW (ft)	3CCOW-3 Drawdown	3CCOW-4 DTW (ft)	3CCOW-4 Drawdown	3CCOW-5 DTW (ft)	3CCOW-5 Drawdown
4/20/08 21:15	18,975	181.92	0.82	192.46	0.77	211.92	0.80	185.04	1.13	233.01	0.81	261.03	0.76
4/20/08 21:30	18,990	181.91	0.81	192.46	0.78	211.92	0.80	185.04	1.13	233.01	0.82	261.04	0.77
4/20/08 21:45	19,005	181.92	0.82	192.47	0.78	211.93	0.81	185.04	1.13	233.01	0.82	261.03	0.76
4/20/08 22:00	19,020	181.94	0.84	192.45	0.76	211.93	0.81	185.04	1.13	233.01	0.81	261.03	0.76
4/20/08 22:15	19,035	181.93	0.83	192.47	0.78	211.92	0.81	185.04	1.13	233.02	0.82	261.04	0.77
4/20/08 22:30	19,050	181.93	0.83	192.48	0.79	211.93	0.81	185.05	1.13	233.03	0.83	261.05	0.78
4/20/08 22:45	19,065	181.92	0.82	192.49	0.80	211.94	0.82	185.06	1.14	233.03	0.83	261.05	0.78
4/20/08 23:00	19,080	181.93	0.83	192.49	0.80	211.94	0.83	185.05	1.14	233.04	0.84	261.06	0.79
4/20/08 23:15	19,095	181.93	0.83	192.49	0.81	211.94	0.82	185.06	1.15	233.03	0.84	261.07	0.80
4/20/08 23:30	19,110	181.95	0.85	192.49	0.80	211.94	0.82	185.06	1.15	233.03	0.84	261.06	0.79
4/20/08 23:45	19,125	181.94	0.84	192.47	0.78	211.94	0.82	185.06	1.15	233.04	0.84	261.07	0.79
4/21/08 0:00	19,140	181.94	0.84	192.49	0.80	211.95	0.84	185.06	1.15	233.05	0.86	261.07	0.80
4/21/08 0:15	19,155	181.96	0.86	192.50	0.81	211.95	0.83	185.07	1.16	233.05	0.85	261.07	0.80
4/21/08 0:30	19,170	181.95	0.86	192.48	0.80	211.96	0.84	185.07	1.16	233.05	0.86	261.07	0.80
4/21/08 0:45	19,185	181.95	0.85	192.49	0.80	211.96	0.84	185.07	1.16	233.07	0.87	261.08	0.81
4/21/08 1:00	19,200	181.94	0.84	192.49	0.80	211.95	0.84	185.07	1.16	233.05	0.86	261.09	0.81
4/21/08 1:15	19,215	181.96	0.86	192.50	0.81	211.96	0.84	185.05	1.14	233.06	0.87	261.08	0.81
4/21/08 1:30	19,230	181.96	0.86	192.49	0.80	211.96	0.84	185.07	1.16	233.07	0.87	261.07	0.80
4/21/08 1:45	19,245	181.96	0.86	192.49	0.81	211.96	0.84	185.07	1.16	233.06	0.86	261.08	0.81
4/21/08 2:00	19,260	181.95	0.85	192.50	0.81	211.96	0.84	185.07	1.16	233.06	0.86	261.08	0.81
4/21/08 2:15	19,275	181.96	0.87	192.49	0.80	211.96	0.84	185.07	1.16	233.06	0.87	261.08	0.81
4/21/08 2:30	19,290	181.96	0.86	192.49	0.80	211.96	0.84	185.07	1.16	233.06	0.86	261.08	0.81
4/21/08 2:45	19,305	181.97	0.87	192.49	0.80	211.96	0.85	185.07	1.16	233.06	0.86	261.08	0.81
4/21/08 3:00	19,320	181.95	0.85	192.50	0.81	211.96	0.85	185.08	1.16	233.06	0.86	261.08	0.81
4/21/08 3:15	19,335	181.96	0.87	192.49	0.80	211.96	0.85	185.07	1.16	233.07	0.87	261.08	0.81
4/21/08 3:30	19,350	181.95	0.85	192.48	0.79	211.96	0.85	185.07	1.16	233.06	0.86	261.08	0.81
4/21/08 3:45	19,365	181.96	0.86	192.52	0.83	211.96	0.84	185.07	1.15	233.06	0.87	261.08	0.81
4/21/08 4:00	19,380	181.97	0.87	192.49	0.80	211.96	0.84	185.07	1.16	233.06	0.86	261.08	0.81
4/21/08 4:15	19,395	181.95	0.86	192.49	0.80	211.96	0.84	185.06	1.15	233.07	0.87	261.08	0.81
4/21/08 4:30	19,410	181.97	0.87	192.49	0.80	211.96	0.84	185.07	1.16	233.07	0.88	261.08	0.81
4/21/08 4:45	19,425	181.96	0.86	192.48	0.79	211.95	0.84	185.07	1.16	233.06	0.86	261.09	0.82
4/21/08 5:00	19,440	181.97	0.87	192.46	0.77	211.95	0.83	185.06	1.15	233.06	0.86	261.08	0.81
4/21/08 5:15	19,455	181.95	0.85	192.46	0.78	211.96	0.84	185.06	1.15	233.05	0.86	261.07	0.80
4/21/08 5:30	19,470	181.96	0.86	192.49	0.80	211.94	0.83	185.05	1.14	233.06	0.86	261.08	0.81
4/21/08 5:45	19,485	181.97	0.87	192.47	0.78	211.95	0.83	185.06	1.15	233.06	0.86	261.08	0.81
4/21/08 6:00	19,500	181.95	0.85	192.48	0.79	211.96	0.84	185.06	1.15	233.05	0.86	261.08	0.81
4/21/08 6:15	19,515	181.95	0.85	192.48	0.80	211.96	0.84	185.06	1.15	233.06	0.86	261.09	0.81
4/21/08 6:30	19,530	181.96	0.86	192.48	0.79	211.96	0.84	185.06	1.15	233.06	0.86	261.09	0.81
4/21/08 6:45	19,545	181.97	0.87	192.47	0.78	211.96	0.84	185.06	1.15	233.07	0.87	261.09	0.82
4/21/08 7:00	19,560	181.97	0.87	192.51	0.83	211.96	0.84	185.06	1.15	233.06	0.87	261.10	0.82
4/21/08 7:15	19,575	181.97	0.87	192.48	0.79	211.96	0.84	185.07	1.15	233.07	0.87	261.09	0.82
4/21/08 7:30	19,590	181.96	0.86	192.54	0.85	211.96	0.84	185.07	1.16	233.06	0.86	261.09	0.82
4/21/08 7:45	19,605	181.97	0.87	192.47	0.78	211.95	0.83	185.06	1.15	233.07	0.87	261.09	0.82
4/21/08 8:00	19,620	181.97	0.87	192.47	0.78	211.96	0.84	185.06	1.15	233.06	0.86	261.08	0.81

Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/7/08 17:00	0	192.30	0.00	232.84	0.00	52.36	0.00	58.09	0.00	NA	NA	Begin test
4/7/08 17:15	15	192.27	-0.03	232.84	0.00	52.35	-0.01	58.10	0.00	NA	NA	
4/7/08 17:30	30	192.27	-0.03	232.83	-0.01	52.35	0.00	58.09	0.00	NA	NA	
4/7/08 17:45	45	192.27	-0.03	232.83	-0.01	52.37	0.01	58.10	0.01	NA	NA	
4/7/08 18:00	60	192.27	-0.03	232.83	-0.01	52.35	0.00	58.10	0.01	NA	NA	
4/7/08 18:15	75	192.27	-0.03	232.82	-0.02	52.37	0.01	58.10	0.00	NA	NA	
4/7/08 18:30	90	192.27	-0.03	232.83	-0.01	52.36	0.00	58.10	0.01	NA	NA	
4/7/08 18:45	105	192.27	-0.03	232.83	-0.01	52.36	0.01	58.10	0.01	NA	NA	
4/7/08 19:00	120	192.27	-0.03	232.82	-0.02	52.35	0.00	58.10	0.00	NA	NA	
4/7/08 19:15	135	192.27	-0.03	232.82	-0.02	52.37	0.01	58.11	0.01	NA	NA	
4/7/08 19:30	150	192.27	-0.03	232.82	-0.02	52.36	0.01	58.10	0.00	NA	NA	
4/7/08 19:45	165	192.26	-0.03	232.81	-0.03	52.37	0.01	58.10	0.01	NA	NA	
4/7/08 20:00	180	192.27	-0.03	232.82	-0.02	52.38	0.02	58.11	0.01	NA	NA	
4/7/08 20:15	195	192.27	-0.02	232.82	-0.02	52.38	0.03	58.12	0.02	NA	NA	
4/7/08 20:30	210	192.27	-0.03	232.82	-0.02	52.38	0.02	58.11	0.01	NA	NA	
4/7/08 20:45	225	192.28	-0.02	232.82	-0.02	52.38	0.03	58.12	0.02	NA	NA	
4/7/08 21:00	240	192.28	-0.02	232.82	-0.02	52.39	0.03	58.12	0.03	NA	NA	
4/7/08 21:15	255	192.29	-0.01	232.82	-0.02	52.40	0.05	58.12	0.03	NA	NA	
4/7/08 21:30	270	192.29	-0.01	232.81	-0.03	52.39	0.04	58.12	0.03	NA	NA	
4/7/08 21:45	285	192.29	-0.01	232.83	-0.01	52.41	0.06	58.13	0.04	NA	NA	
4/7/08 22:00	300	192.29	-0.01	232.83	-0.01	52.41	0.05	58.13	0.04	NA	NA	
4/7/08 22:15	315	192.29	-0.01	232.83	-0.01	52.42	0.06	58.14	0.05	NA	NA	
4/7/08 22:30	330	192.31	0.01	232.84	0.00	52.42	0.07	58.15	0.05	NA	NA	
4/7/08 22:45	345	192.30	0.00	232.84	0.00	52.42	0.07	58.15	0.05	NA	NA	
4/7/08 23:00	360	192.31	0.01	232.84	0.00	52.42	0.07	58.14	0.04	NA	NA	
4/7/08 23:15	375	192.32	0.02	232.84	0.00	52.43	0.08	58.14	0.04	NA	NA	
4/7/08 23:30	390	192.32	0.02	232.84	0.00	52.42	0.06	58.13	0.03	NA	NA	
4/7/08 23:45	405	192.32	0.02	232.84	0.00	52.42	0.06	58.13	0.03	NA	NA	
4/8/08 0:00	420	192.32	0.02	232.85	0.01	52.42	0.06	58.13	0.03	NA	NA	
4/8/08 0:15	435	192.33	0.03	232.84	0.00	52.41	0.06	58.13	0.03	NA	NA	
4/8/08 0:30	450	192.34	0.04	232.85	0.01	52.42	0.07	58.13	0.04	NA	NA	
4/8/08 0:45	465	192.34	0.04	232.84	0.00	52.41	0.06	58.12	0.03	NA	NA	
4/8/08 1:00	480	192.34	0.04	232.85	0.01	52.42	0.06	58.13	0.03	NA	NA	
4/8/08 1:15	495	192.34	0.04	232.84	0.00	52.41	0.05	58.12	0.02	NA	NA	
4/8/08 1:30	510	192.35	0.05	232.84	0.00	52.39	0.03	58.11	0.02	NA	NA	
4/8/08 1:45	525	192.35	0.05	232.84	0.00	52.39	0.03	58.11	0.01	NA	NA	
4/8/08 2:00	540	192.35	0.05	232.83	-0.01	52.39	0.03	58.11	0.01	NA	NA	
4/8/08 2:15	555	192.36	0.06	232.84	0.00	52.39	0.03	58.10	0.01	NA	NA	
4/8/08 2:30	570	192.36	0.06	232.84	0.00	52.37	0.01	58.09	0.00	NA	NA	
4/8/08 2:45	585	192.36	0.06	232.84	0.00	52.38	0.02	58.10	0.01	NA	NA	
4/8/08 3:00	600	192.37	0.07	232.84	0.00	52.37	0.02	58.10	0.00	NA	NA	
4/8/08 3:15	615	192.36	0.06	232.84	0.00	52.37	0.01	58.10	0.00	NA	NA	
4/8/08 3:30	630	192.37	0.07	232.84	0.00	52.36	0.01	58.10	0.00	NA	NA	
4/8/08 3:45	645	192.36	0.06	232.84	0.00	52.36	0.00	58.10	0.01	NA	NA	
4/8/08 4:00	660	192.37	0.07	232.83	-0.01	52.37	0.02	58.10	0.00	NA	NA	
4/8/08 4:15	675	192.38	0.08	232.84	0.00	52.37	0.02	58.09	0.00	NA	NA	
4/8/08 4:30	690	192.38	0.09	232.84	0.00	52.36	0.01	58.10	0.00	NA	NA	
4/8/08 4:45	705	192.39	0.09	232.83	0.00	52.37	0.01	58.10	0.00	NA	NA	
4/8/08 5:00	720	192.40	0.10	232.84	0.00	52.38	0.02	58.10	0.01	NA	NA	
4/8/08 5:15	735	192.40	0.10	232.84	0.00	52.38	0.02	58.11	0.01	NA	NA	
4/8/08 5:30	750	192.40	0.10	232.85	0.01	52.39	0.03	58.11	0.02	NA	NA	
4/8/08 5:45	765	192.40	0.11	232.84	0.00	52.38	0.02	58.11	0.02	NA	NA	
4/8/08 6:00	780	192.41	0.11	232.84	0.00	52.39	0.03	58.12	0.02	NA	NA	
4/8/08 6:15	795	192.41	0.11	232.85	0.01	52.39	0.04	58.12	0.03	NA	NA	
4/8/08 6:30	810	192.42	0.13	232.85	0.01	52.39	0.04	58.12	0.03	NA	NA	

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/8/08 6:45	825	192.42	0.12	232.85	0.02	52.39	0.04	58.12	0.03			NA
4/8/08 7:00	840	192.42	0.12	232.85	0.01	52.41	0.05	58.13	0.04			NA
4/8/08 7:15	855	192.44	0.14	232.86	0.02	52.40	0.04	58.13	0.03			NA
4/8/08 7:30	870	192.44	0.14	232.86	0.02	52.41	0.05	58.12	0.03			NA
4/8/08 7:45	885	192.44	0.14	232.86	0.02	52.40	0.05	58.13	0.03			NA
4/8/08 8:00	900	192.44	0.15	232.86	0.02	52.41	0.05	58.11	0.02			NA
4/8/08 8:15	915	192.46	0.16	232.87	0.03	52.40	0.04	58.13	0.04			NA
4/8/08 8:30	930	192.47	0.17	232.87	0.03	52.40	0.04	58.13	0.04			NA
4/8/08 8:45	945	192.47	0.18	232.86	0.02	52.40	0.05	58.13	0.03			NA
4/8/08 9:00	960	192.47	0.17	232.87	0.03	52.40	0.05	58.12	0.03			NA
4/8/08 9:15	975	192.48	0.18	232.87	0.03	52.40	0.05	58.12	0.03			NA
4/8/08 9:30	990	192.48	0.19	232.88	0.04	52.40	0.05	58.12	0.02			NA
4/8/08 9:45	1,005	192.50	0.20	232.89	0.05	52.39	0.04	58.12	0.02			NA
4/8/08 10:00	1,020	192.49	0.19	232.89	0.05	52.40	0.04	58.12	0.02			NA
4/8/08 10:15	1,035	192.52	0.22	232.88	0.04	52.41	0.05	58.12	0.03			NA
4/8/08 10:30	1,050	192.52	0.22	232.90	0.06	52.40	0.05	58.12	0.03			NA
4/8/08 10:45	1,065	192.52	0.23	232.89	0.05	52.39	0.04	58.13	0.03			NA
4/8/08 11:00	1,080	192.54	0.24	232.89	0.05	52.39	0.04	58.11	0.02			NA
4/8/08 11:15	1,095	192.54	0.24	232.90	0.06	52.39	0.04	58.12	0.02			NA
4/8/08 11:30	1,110	192.54	0.24	232.90	0.06	52.39	0.03	58.10	0.01			NA
4/8/08 11:45	1,125	192.54	0.24	232.90	0.06	52.38	0.03	58.11	0.01			NA
4/8/08 12:00	1,140	192.55	0.25	232.90	0.06	52.37	0.01	58.10	0.00			NA
4/8/08 12:15	1,155	192.56	0.26	232.90	0.06	52.37	0.01	58.09	-0.01			NA
4/8/08 12:30	1,170	192.56	0.26	232.91	0.07	52.35	0.00	58.09	-0.01			NA
4/8/08 12:45	1,185	192.57	0.27	232.91	0.07	52.36	0.01	58.09	0.00			NA
4/8/08 13:00	1,200	192.56	0.26	232.91	0.07	52.34	-0.01	58.09	0.00			NA
4/8/08 13:15	1,215	192.58	0.28	232.92	0.08	52.35	0.00	58.08	-0.02			NA
4/8/08 13:30	1,230	192.58	0.29	232.92	0.08	52.35	0.00	58.08	-0.01			NA
4/8/08 13:45	1,245	192.59	0.29	232.92	0.08	52.35	0.00	58.08	-0.02			NA
4/8/08 14:00	1,260	192.60	0.30	232.92	0.08	52.35	-0.01	58.07	-0.02			NA
4/8/08 14:15	1,275	192.60	0.30	232.92	0.08	52.34	-0.01	58.07	-0.02			NA
4/8/08 14:30	1,290	192.60	0.30	232.91	0.07	52.33	-0.02	58.07	-0.02			NA
4/8/08 14:45	1,305	192.61	0.31	232.92	0.08	52.33	-0.03	58.07	-0.03			NA
4/8/08 15:00	1,320	192.60	0.30	232.93	0.09	52.32	-0.04	58.06	-0.03			NA
4/8/08 15:15	1,335	192.61	0.31	232.92	0.08	52.31	-0.04	58.06	-0.03			NA
4/8/08 15:30	1,350	192.60	0.30	232.92	0.08	52.30	-0.05	58.06	-0.04			NA
4/8/08 15:45	1,365	192.60	0.31	232.92	0.08	52.31	-0.04	58.05	-0.04			NA
4/8/08 16:00	1,380	192.62	0.32	232.92	0.08	52.30	-0.06	58.06	-0.03			NA
4/8/08 16:15	1,395	192.62	0.32	232.92	0.08	52.30	-0.06	58.06	-0.04			NA
4/8/08 16:30	1,410	192.62	0.32	232.92	0.08	52.31	-0.05	58.07	-0.03			NA
4/8/08 16:45	1,425	192.62	0.33	232.92	0.08	52.30	-0.06	58.06	-0.04			NA
4/8/08 17:00	1,440	192.63	0.33	232.92	0.09	52.30	-0.05	58.07	-0.03			NA
4/8/08 17:15	1,455	192.62	0.32	232.93	0.09	52.31	-0.04	58.06	-0.03			NA
4/8/08 17:30	1,470	192.63	0.33	232.93	0.09	52.32	-0.04	58.08	-0.02			NA
4/8/08 17:45	1,485	192.64	0.34	232.93	0.09	52.31	-0.04	58.08	-0.02			NA
4/8/08 18:00	1,500	192.64	0.34	232.93	0.09	52.32	-0.04	58.07	-0.02			NA
4/8/08 18:15	1,515	192.63	0.34	232.93	0.09	52.33	-0.03	58.07	-0.02			NA
4/8/08 18:30	1,530	192.65	0.35	232.93	0.09	52.32	-0.03	58.08	-0.01			NA
4/8/08 18:45	1,545	192.65	0.35	232.93	0.09	52.33	-0.02	58.08	-0.01			NA
4/8/08 19:00	1,560	192.65	0.35	232.93	0.09	52.32	-0.04	58.08	-0.02			NA
4/8/08 19:15	1,575	192.65	0.35	232.93	0.09	52.32	-0.04	58.07	-0.02			NA
4/8/08 19:30	1,590	192.66	0.36	232.93	0.09	52.32	-0.03	58.09	-0.01			NA
4/8/08 19:45	1,605	192.67	0.37	232.94	0.10	52.34	-0.01	58.08	-0.01			NA
4/8/08 20:00	1,620	192.67	0.37	232.94	0.10	52.34	-0.01	58.09	-0.01			NA
4/8/08 20:15	1,635	192.67	0.38	232.94	0.10	52.34	-0.02	58.10	0.00			NA

Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/8/08 20:30	1,650	192.68	0.38	232.94	0.10	52.35	0.00	58.10	0.00	NA	NA	
4/8/08 20:45	1,665	192.69	0.39	232.94	0.10	52.35	0.00	58.10	0.01	NA	NA	
4/8/08 21:00	1,680	192.69	0.39	232.95	0.11	52.37	0.01	58.10	0.01	NA	NA	
4/8/08 21:15	1,695	192.69	0.40	232.95	0.11	52.37	0.01	58.11	0.02	NA	NA	
4/8/08 21:30	1,710	192.70	0.40	232.95	0.12	52.37	0.01	58.10	0.00	NA	NA	
4/8/08 21:45	1,725	192.71	0.41	232.96	0.12	52.36	0.01	58.10	0.01	NA	NA	
4/8/08 22:00	1,740	192.70	0.41	232.96	0.12	52.36	0.00	58.10	0.00	NA	NA	
4/8/08 22:15	1,755	192.71	0.41	232.96	0.12	52.37	0.01	58.10	0.00	NA	NA	
4/8/08 22:30	1,770	192.72	0.42	232.96	0.12	52.37	0.01	58.10	0.01	NA	NA	
4/8/08 22:45	1,785	192.71	0.41	232.96	0.12	52.37	0.01	58.10	0.00	NA	NA	
4/8/08 23:00	1,800	192.72	0.42	232.97	0.13	52.37	0.01	58.10	0.00	NA	NA	
4/8/08 23:15	1,815	192.72	0.43	232.97	0.13	52.37	0.02	58.10	0.00	NA	NA	
4/8/08 23:30	1,830	192.74	0.44	232.97	0.13	52.37	0.01	58.10	0.01	NA	NA	
4/8/08 23:45	1,845	192.74	0.44	232.97	0.13	52.36	0.01	58.10	0.00	NA	NA	
4/9/08 0:00	1,860	192.74	0.44	232.98	0.14	52.36	0.01	58.09	-0.01	NA	NA	
4/9/08 0:15	1,875	192.75	0.45	232.98	0.14	52.35	0.00	58.09	0.00	NA	NA	
4/9/08 0:30	1,890	192.75	0.45	232.98	0.14	52.36	0.01	58.09	0.00	NA	NA	
4/9/08 0:45	1,905	192.76	0.46	232.98	0.15	52.35	0.00	58.09	-0.01	NA	NA	
4/9/08 1:00	1,920	192.75	0.45	232.99	0.15	52.35	0.00	58.08	-0.02	NA	NA	
4/9/08 1:15	1,935	192.76	0.46	232.99	0.15	52.35	-0.01	58.08	-0.01	NA	NA	
4/9/08 1:30	1,950	192.77	0.47	232.99	0.15	52.35	-0.01	58.08	-0.01	NA	NA	
4/9/08 1:45	1,965	192.77	0.47	232.99	0.15	52.34	-0.01	58.08	-0.02	NA	NA	
4/9/08 2:00	1,980	192.77	0.47	232.99	0.15	52.33	-0.02	58.07	-0.03	NA	NA	
4/9/08 2:15	1,995	192.76	0.47	232.99	0.15	52.33	-0.03	58.06	-0.03	NA	NA	
4/9/08 2:30	2,010	192.77	0.47	232.99	0.15	52.32	-0.03	58.06	-0.04	NA	NA	
4/9/08 2:45	2,025	192.78	0.48	232.99	0.15	52.31	-0.04	58.06	-0.03	NA	NA	
4/9/08 3:00	2,040	192.78	0.48	232.99	0.15	52.31	-0.04	58.06	-0.04	NA	NA	
4/9/08 3:15	2,055	192.79	0.49	232.99	0.15	52.31	-0.04	58.06	-0.03	NA	NA	
4/9/08 3:30	2,070	192.78	0.48	233.00	0.16	52.30	-0.05	58.06	-0.04	NA	NA	
4/9/08 3:45	2,085	192.79	0.50	233.00	0.16	52.31	-0.05	58.05	-0.04	NA	NA	
4/9/08 4:00	2,100	192.80	0.50	233.00	0.16	52.31	-0.05	58.06	-0.03	NA	NA	
4/9/08 4:15	2,115	192.80	0.50	233.00	0.16	52.30	-0.05	58.06	-0.03	NA	NA	
4/9/08 4:30	2,130	192.80	0.50	233.00	0.16	52.30	-0.06	58.06	-0.04	NA	NA	
4/9/08 4:45	2,145	192.80	0.50	233.00	0.16	52.30	-0.06	58.06	-0.04	NA	NA	
4/9/08 5:00	2,160	192.81	0.51	233.00	0.16	52.28	-0.07	58.05	-0.04	NA	NA	
4/9/08 5:15	2,175	192.80	0.50	233.00	0.16	52.28	-0.08	58.05	-0.05	NA	NA	
4/9/08 5:30	2,190	192.80	0.50	233.00	0.16	52.28	-0.08	58.05	-0.05	NA	NA	
4/9/08 5:45	2,205	192.82	0.52	233.00	0.16	52.27	-0.08	58.05	-0.04	NA	NA	
4/9/08 6:00	2,220	192.81	0.51	233.01	0.17	52.28	-0.07	58.05	-0.04	NA	NA	
4/9/08 6:15	2,235	192.82	0.52	233.01	0.17	52.29	-0.07	58.05	-0.05	NA	NA	
4/9/08 6:30	2,250	192.82	0.52	233.01	0.17	52.29	-0.07	58.04	-0.05	NA	NA	
4/9/08 6:45	2,265	192.82	0.52	233.02	0.18	52.27	-0.09	58.05	-0.05	NA	NA	
4/9/08 7:00	2,280	192.83	0.53	233.00	0.16	52.29	-0.07	58.05	-0.04	NA	NA	
4/9/08 7:15	2,295	192.83	0.53	233.01	0.17	52.29	-0.07	58.05	-0.04	NA	NA	
4/9/08 7:30	2,310	192.83	0.53	233.02	0.18	52.29	-0.06	58.06	-0.03	NA	NA	
4/9/08 7:45	2,325	192.84	0.54	233.02	0.18	52.28	-0.07	58.06	-0.04	NA	NA	
4/9/08 8:00	2,340	192.83	0.53	233.02	0.18	52.28	-0.08	58.06	-0.04	NA	NA	
4/9/08 8:15	2,355	192.85	0.55	233.02	0.18	52.27	-0.08	58.05	-0.05	NA	NA	
4/9/08 8:30	2,370	192.84	0.55	233.02	0.18	52.27	-0.08	58.04	-0.05	NA	NA	
4/9/08 8:45	2,385	192.86	0.56	233.03	0.19	52.27	-0.09	58.03	-0.06	NA	NA	
4/9/08 9:00	2,400	192.86	0.56	233.03	0.19	52.27	-0.09	58.04	-0.05	NA	NA	
4/9/08 9:15	2,415	192.85	0.56	233.03	0.19	52.25	-0.10	58.03	-0.07	NA	NA	
4/9/08 9:30	2,430	192.86	0.56	233.03	0.19	52.26	-0.10	58.02	-0.08	NA	NA	
4/9/08 9:45	2,445	192.86	0.56	233.03	0.19	52.25	-0.10	58.02	-0.08	NA	NA	
4/9/08 10:00	2,460	192.86	0.56	233.03	0.19	52.25	-0.11	58.03	-0.07	NA	NA	

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/9/08 10:15	2,475	192.88	0.58	233.00	0.16	52.25	-0.11	58.04	-0.06			NA
4/9/08 10:30	2,490	192.89	0.59	233.03	0.19	52.25	-0.10	58.03	-0.06			NA
4/9/08 10:45	2,505	192.89	0.59	233.04	0.20	52.25	-0.10	58.03	-0.06			NA
4/9/08 11:00	2,520	192.88	0.58	233.03	0.19	52.25	-0.10	58.03	-0.07			NA
4/9/08 11:15	2,535	192.89	0.60	233.05	0.22	52.26	-0.09	58.04	-0.06			NA
4/9/08 11:30	2,550	192.90	0.60	233.05	0.22	52.27	-0.09	58.03	-0.06			NA
4/9/08 11:45	2,565	192.90	0.61	233.06	0.22	52.25	-0.10	58.04	-0.06			NA
4/9/08 12:00	2,580	192.92	0.62	233.05	0.22	52.25	-0.11	58.03	-0.06			NA
4/9/08 12:15	2,595	192.93	0.63	233.06	0.22	52.24	-0.11	58.02	-0.07			NA
4/9/08 12:30	2,610	192.93	0.63	233.07	0.23	52.25	-0.10	58.04	-0.06			NA
4/9/08 12:45	2,625	192.93	0.64	233.07	0.23	52.26	-0.10	58.03	-0.06			NA
4/9/08 13:00	2,640	192.93	0.63	233.08	0.24	52.26	-0.10	58.03	-0.06			NA
4/9/08 13:15	2,655	192.94	0.65	233.09	0.25	52.26	-0.09	58.03	-0.06			NA
4/9/08 13:30	2,670	192.95	0.66	233.07	0.23	52.25	-0.11	58.03	-0.07			NA
4/9/08 13:45	2,685	192.95	0.66	233.09	0.25	52.26	-0.10	58.03	-0.06			NA
4/9/08 14:00	2,700	192.96	0.66	233.09	0.25	52.26	-0.10	58.03	-0.07			NA
4/9/08 14:15	2,715	192.96	0.66	233.10	0.26	52.25	-0.10	58.03	-0.07			NA
4/9/08 14:30	2,730	192.97	0.67	233.09	0.25	52.25	-0.11	58.01	-0.08			NA
4/9/08 14:45	2,745	192.96	0.66	233.09	0.25	52.24	-0.12	58.01	-0.08			NA
4/9/08 15:00	2,760	192.97	0.67	233.10	0.26	52.24	-0.12	58.02	-0.07			NA
4/9/08 15:15	2,775	192.97	0.67	233.10	0.26	52.24	-0.11	58.02	-0.07			NA
4/9/08 15:30	2,790	192.98	0.68	233.10	0.26	52.23	-0.12	58.02	-0.08			NA
4/9/08 15:45	2,805	192.97	0.67	233.10	0.26	52.23	-0.12	58.01	-0.08			NA
4/9/08 16:00	2,820	192.97	0.68	233.11	0.27	52.23	-0.12	58.01	-0.09			NA
4/9/08 16:15	2,835	192.97	0.68	233.10	0.26	52.23	-0.13	58.02	-0.08			NA
4/9/08 16:30	2,850	192.97	0.67	233.11	0.27	52.23	-0.13	58.01	-0.08			NA
4/9/08 16:45	2,865	192.98	0.68	233.11	0.27	52.23	-0.13	58.01	-0.09			NA
4/9/08 17:00	2,880	192.98	0.68	233.11	0.27	52.22	-0.13	58.03	-0.07			NA
4/9/08 17:15	2,895	192.99	0.69	233.11	0.27	52.24	-0.12	58.02	-0.08			NA
4/9/08 17:30	2,910	192.98	0.69	233.11	0.27	52.24	-0.12	58.02	-0.07			NA
4/9/08 17:45	2,925	193.00	0.70	233.11	0.27	52.24	-0.12	58.01	-0.08			NA
4/9/08 18:00	2,940	192.99	0.69	233.10	0.27	52.24	-0.12	58.02	-0.07			NA
4/9/08 18:15	2,955	192.99	0.69	233.11	0.28	52.23	-0.12	58.02	-0.08			NA
4/9/08 18:30	2,970	193.00	0.70	233.11	0.27	52.22	-0.13	58.01	-0.08			NA
4/9/08 18:45	2,985	193.00	0.70	233.11	0.27	52.23	-0.13	58.02	-0.07			NA
4/9/08 19:00	3,000	193.00	0.70	233.11	0.27	52.24	-0.12	58.02	-0.07			NA
4/9/08 19:15	3,015	192.99	0.69	233.11	0.27	52.24	-0.12	58.02	-0.07			NA
4/9/08 19:30	3,030	193.00	0.70	233.11	0.27	52.25	-0.11	58.02	-0.07			NA
4/9/08 19:45	3,045	193.01	0.71	233.11	0.27	52.24	-0.11	58.03	-0.07			NA
4/9/08 20:00	3,060	193.02	0.72	233.13	0.29	52.26	-0.09	58.04	-0.06			NA
4/9/08 20:15	3,075	193.02	0.72	233.12	0.28	52.29	-0.07	58.05	-0.05			NA
4/9/08 20:30	3,090	193.03	0.73	233.13	0.29	52.30	-0.06	58.05	-0.04			NA
4/9/08 20:45	3,105	193.04	0.74	233.13	0.29	52.30	-0.05	58.06	-0.03			NA
4/9/08 21:00	3,120	193.03	0.73	233.14	0.30	52.31	-0.04	58.06	-0.03			NA
4/9/08 21:15	3,135	193.03	0.73	233.14	0.30	52.31	-0.04	58.06	-0.03			NA
4/9/08 21:30	3,150	193.05	0.75	233.14	0.30	52.32	-0.03	58.07	-0.02			NA
4/9/08 21:45	3,165	193.04	0.75	233.14	0.30	52.32	-0.03	58.07	-0.03			NA
4/9/08 22:00	3,180	193.05	0.75	233.15	0.31	52.33	-0.03	58.07	-0.03			NA
4/9/08 22:15	3,195	193.05	0.75	233.15	0.31	52.33	-0.03	58.07	-0.02			NA
4/9/08 22:30	3,210	193.06	0.76	233.15	0.31	52.32	-0.04	58.07	-0.03			NA
4/9/08 22:45	3,225	193.05	0.75	233.16	0.32	52.33	-0.02	58.07	-0.03			NA
4/9/08 23:00	3,240	193.05	0.76	233.16	0.32	52.33	-0.03	58.06	-0.03			NA
4/9/08 23:15	3,255	193.06	0.77	233.16	0.32	52.32	-0.03	58.05	-0.04			NA
4/9/08 23:30	3,270	193.07	0.77	233.16	0.32	52.32	-0.03	58.05	-0.04			NA
4/9/08 23:45	3,285	193.07	0.77	233.15	0.31	52.31	-0.04	58.06	-0.04			NA

Appendix D

Three Crow Level TROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/10/08 0:00	3,300	193.06	0.76	233.16	0.32	52.31	-0.04	58.05	-0.05			NA
4/10/08 0:15	3,315	193.07	0.78	233.16	0.32	52.31	-0.05	58.06	-0.04			NA
4/10/08 0:30	3,330	193.07	0.77	233.16	0.32	52.32	-0.04	58.05	-0.05			NA
4/10/08 0:45	3,345	193.08	0.78	233.17	0.33	52.32	-0.04	58.05	-0.04			NA
4/10/08 1:00	3,360	193.08	0.78	233.17	0.33	52.31	-0.04	58.05	-0.05			NA
4/10/08 1:15	3,375	193.08	0.78	233.17	0.33	52.32	-0.04	58.06	-0.03			NA
4/10/08 1:30	3,390	193.08	0.78	233.16	0.32	52.31	-0.04	58.05	-0.05			NA
4/10/08 1:45	3,405	193.09	0.79	233.18	0.34	52.30	-0.05	58.04	-0.05			NA
4/10/08 2:00	3,420	193.09	0.79	233.17	0.34	52.30	-0.06	58.05	-0.05			NA
4/10/08 2:15	3,435	193.08	0.78	233.18	0.34	52.29	-0.06	58.04	-0.05			NA
4/10/08 2:30	3,450	193.09	0.79	233.17	0.33	52.28	-0.07	58.03	-0.06			NA
4/10/08 2:45	3,465	193.09	0.80	233.17	0.33	52.29	-0.07	58.03	-0.06			NA
4/10/08 3:00	3,480	193.09	0.79	233.18	0.34	52.29	-0.06	58.04	-0.05			NA
4/10/08 3:15	3,495	193.10	0.80	233.18	0.34	52.30	-0.06	58.04	-0.05			NA
4/10/08 3:30	3,510	193.11	0.81	233.19	0.35	52.29	-0.06	58.05	-0.05			NA
4/10/08 3:45	3,525	193.11	0.81	233.18	0.34	52.31	-0.04	58.05	-0.04			NA
4/10/08 4:00	3,540	193.11	0.82	233.19	0.35	52.30	-0.06	58.05	-0.05			NA
4/10/08 4:15	3,555	193.11	0.81	233.18	0.34	52.31	-0.05	58.05	-0.05			NA
4/10/08 4:30	3,570	193.11	0.81	233.19	0.35	52.31	-0.04	58.04	-0.05			NA
4/10/08 4:45	3,585	193.12	0.82	233.19	0.35	52.31	-0.04	58.05	-0.05			NA
4/10/08 5:00	3,600	193.11	0.81	233.19	0.35	52.30	-0.05	58.04	-0.05			NA
4/10/08 5:15	3,615	193.11	0.82	233.19	0.35	52.30	-0.05	58.04	-0.06			NA
4/10/08 5:30	3,630	193.11	0.81	233.19	0.35	52.30	-0.06	58.03	-0.07			NA
4/10/08 5:45	3,645	193.11	0.81	233.19	0.35	52.29	-0.06	58.03	-0.06			NA
4/10/08 6:00	3,660	193.12	0.82	233.19	0.35	52.29	-0.06	58.03	-0.06			NA
4/10/08 6:15	3,675	193.12	0.82	233.20	0.36	52.29	-0.06	58.04	-0.06			NA
4/10/08 6:30	3,690	193.13	0.83	233.20	0.36	52.29	-0.06	58.04	-0.05			NA
4/10/08 6:45	3,705	193.13	0.83	233.20	0.36	52.29	-0.07	58.03	-0.06			NA
4/10/08 7:00	3,720	193.13	0.83	233.20	0.36	52.28	-0.07	58.04	-0.05			NA
4/10/08 7:15	3,735	193.12	0.83	233.20	0.37	52.29	-0.06	58.05	-0.04			NA
4/10/08 7:30	3,750	193.14	0.84	233.21	0.37	52.31	-0.05	58.04	-0.05			NA
4/10/08 7:45	3,765	193.13	0.84	233.21	0.37	52.31	-0.05	58.05	-0.04			NA
4/10/08 8:00	3,780	193.14	0.84	233.21	0.37	52.30	-0.06	58.06	-0.04			NA
4/10/08 8:15	3,795	193.15	0.85	233.20	0.37	52.30	-0.05	58.04	-0.05			NA
4/10/08 8:30	3,810	193.15	0.85	233.22	0.38	52.30	-0.06	58.03	-0.06			NA
4/10/08 8:45	3,825	193.15	0.85	233.22	0.38	52.30	-0.05	58.04	-0.06			NA
4/10/08 9:00	3,840	193.14	0.84	233.22	0.38	52.30	-0.06	58.05	-0.05			NA
4/10/08 9:15	3,855	193.16	0.86	233.22	0.38	52.30	-0.06	58.05	-0.05			NA
4/10/08 9:30	3,870	193.16	0.86	233.22	0.38	52.30	-0.06	58.03	-0.06			NA
4/10/08 9:45	3,885	193.16	0.86	233.23	0.39	52.30	-0.05	58.05	-0.05			NA
4/10/08 10:00	3,900	193.16	0.86	233.23	0.39	52.32	-0.04	58.05	-0.05			NA
4/10/08 10:15	3,915	193.17	0.87	233.23	0.40	52.31	-0.04	58.04	-0.06			NA
4/10/08 10:30	3,930	193.18	0.88	233.24	0.40	52.30	-0.05	58.04	-0.05			NA
4/10/08 10:45	3,945	193.18	0.88	233.24	0.40	52.32	-0.04	58.05	-0.05			NA
4/10/08 11:00	3,960	193.18	0.88	233.24	0.40	52.31	-0.05	58.04	-0.05			NA
4/10/08 11:15	3,975	193.19	0.89	233.24	0.40	52.32	-0.03	58.05	-0.05			NA
4/10/08 11:30	3,990	193.18	0.88	233.24	0.40	52.31	-0.05	58.04	-0.06			NA
4/10/08 11:45	4,005	193.19	0.89	233.25	0.41	52.31	-0.05	58.05	-0.05			NA
4/10/08 12:00	4,020	193.20	0.90	233.24	0.40	52.30	-0.05	58.04	-0.06			NA
4/10/08 12:15	4,035	193.19	0.89	233.25	0.41	52.31	-0.05	58.04	-0.06			NA
4/10/08 12:30	4,050	193.19	0.90	233.24	0.40	52.29	-0.06	58.03	-0.06			NA
4/10/08 12:45	4,065	193.19	0.90	233.25	0.41	52.31	-0.05	58.04	-0.06			NA
4/10/08 13:00	4,080	193.21	0.91	233.26	0.42	52.30	-0.06	58.05	-0.05			NA
4/10/08 13:15	4,095	193.21	0.91	233.26	0.42	52.29	-0.06	58.04	-0.05			NA
4/10/08 13:30	4,110	193.22	0.92	233.26	0.42	52.31	-0.05	58.05	-0.05			NA

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/10/08 13:45	4,125	193.22	0.92	233.27	0.43	52.30	-0.05	58.04	-0.06		NA	
4/10/08 14:00	4,140	193.22	0.92	233.26	0.43	52.32	-0.04	58.04	-0.05		NA	
4/10/08 14:15	4,155	193.22	0.92	233.26	0.42	52.31	-0.04	58.04	-0.05		NA	
4/10/08 14:30	4,170	193.22	0.93	233.26	0.42	52.30	-0.05	58.05	-0.05		NA	
4/10/08 14:45	4,185	193.23	0.93	233.27	0.43	52.30	-0.05	58.04	-0.05		NA	
4/10/08 15:00	4,200	193.22	0.92	233.27	0.44	52.30	-0.05	58.04	-0.05		NA	
4/10/08 15:15	4,215	193.23	0.93	233.28	0.44	52.32	-0.04	58.04	-0.05		NA	
4/10/08 15:30	4,230	193.23	0.94	233.28	0.44	52.31	-0.04	58.05	-0.05		NA	
4/10/08 15:45	4,245	193.24	0.94	233.28	0.44	52.31	-0.04	58.05	-0.05		NA	
4/10/08 16:00	4,260	193.23	0.93	233.29	0.45	52.32	-0.03	58.05	-0.05		NA	
4/10/08 16:15	4,275	193.25	0.95	233.29	0.45	52.32	-0.04	58.05	-0.05		NA	
4/10/08 16:30	4,290	193.24	0.94	233.29	0.45	52.32	-0.03	58.06	-0.04		NA	
4/10/08 16:45	4,305	193.26	0.96	233.29	0.46	52.32	-0.03	58.07	-0.03		NA	
4/10/08 17:00	4,320	193.25	0.95	233.30	0.46	52.33	-0.02	58.07	-0.02		NA	
4/10/08 17:15	4,335	193.25	0.95	233.30	0.46	52.34	-0.02	58.07	-0.03		NA	
4/10/08 17:30	4,350	193.26	0.97	233.31	0.47	52.35	0.00	58.07	-0.02		NA	
4/10/08 17:45	4,365	193.27	0.97	233.31	0.47	52.35	0.00	58.08	-0.01		NA	
4/10/08 18:00	4,380	193.27	0.97	233.31	0.47	52.37	0.01	58.08	-0.02		NA	
4/10/08 18:15	4,395	193.27	0.97	233.31	0.47	52.36	0.01	58.08	-0.02		NA	
4/10/08 18:30	4,410	193.27	0.98	233.30	0.46	52.37	0.01	58.07	-0.02		NA	
4/10/08 18:45	4,425	193.27	0.97	233.31	0.47	52.37	0.02	58.08	-0.02		NA	
4/10/08 19:00	4,440	193.27	0.97	233.31	0.47	52.36	0.01	58.08	-0.01		NA	
4/10/08 19:15	4,455	193.28	0.98	233.32	0.48	52.37	0.02	58.08	-0.02		NA	
4/10/08 19:30	4,470	193.28	0.99	233.32	0.48	52.38	0.02	58.09	-0.01		NA	
4/10/08 19:45	4,485	193.28	0.98	233.32	0.48	52.39	0.04	58.08	-0.01		NA	
4/10/08 20:00	4,500	193.29	0.99	233.32	0.49	52.38	0.03	58.09	-0.01		NA	
4/10/08 20:15	4,515	193.29	0.99	233.32	0.49	52.39	0.03	58.09	0.00		NA	
4/10/08 20:30	4,530	193.29	0.99	233.32	0.48	52.40	0.04	58.09	0.00		NA	
4/10/08 20:45	4,545	193.30	1.00	233.32	0.48	52.39	0.04	58.10	0.00		NA	
4/10/08 21:00	4,560	193.29	1.00	233.33	0.49	52.41	0.05	58.10	0.00		NA	
4/10/08 21:15	4,575	193.30	1.01	233.33	0.50	52.40	0.04	58.09	0.00		NA	
4/10/08 21:30	4,590	193.30	1.01	233.33	0.49	52.42	0.06	58.09	0.00		NA	
4/10/08 21:45	4,605	193.31	1.01	233.33	0.49	52.40	0.05	58.11	0.01		NA	
4/10/08 22:00	4,620	193.31	1.01	233.33	0.50	52.41	0.06	58.10	0.00		NA	
4/10/08 22:15	4,635	193.31	1.01	233.34	0.50	52.41	0.05	58.11	0.02		NA	
4/10/08 22:30	4,650	193.31	1.01	233.34	0.50	52.41	0.05	58.10	0.00		NA	
4/10/08 22:45	4,665	193.31	1.01	233.34	0.50	52.41	0.05	58.10	0.01		NA	
4/10/08 23:00	4,680	193.31	1.01	233.34	0.50	52.40	0.05	58.09	0.00		NA	
4/10/08 23:15	4,695	193.32	1.02	233.34	0.50	52.42	0.06	58.10	0.01		NA	
4/10/08 23:30	4,710	193.32	1.02	233.34	0.50	52.41	0.05	58.09	-0.01		NA	
4/10/08 23:45	4,725	193.32	1.02	233.35	0.51	52.41	0.05	58.09	0.00		NA	
4/11/08 0:00	4,740	193.32	1.02	233.35	0.51	52.42	0.06	58.10	0.00		NA	
4/11/08 0:15	4,755	193.33	1.03	233.35	0.51	52.41	0.06	58.10	0.00		NA	
4/11/08 0:30	4,770	193.32	1.02	233.35	0.51	52.41	0.05	58.10	0.00		NA	
4/11/08 0:45	4,785	193.32	1.03	233.36	0.52	52.42	0.06	58.10	0.00		NA	
4/11/08 1:00	4,800	193.34	1.04	233.35	0.51	52.43	0.07	58.10	0.01		NA	
4/11/08 1:15	4,815	193.33	1.03	233.36	0.52	52.42	0.06	58.11	0.01		NA	
4/11/08 1:30	4,830	193.35	1.05	233.37	0.53	52.42	0.07	58.11	0.01		NA	
4/11/08 1:45	4,845	193.35	1.05	233.37	0.53	52.44	0.08	58.10	0.01		NA	
4/11/08 2:00	4,860	193.35	1.05	233.36	0.52	52.43	0.08	58.11	0.02		NA	
4/11/08 2:15	4,875	193.35	1.06	233.37	0.53	52.43	0.08	58.11	0.01		NA	
4/11/08 2:30	4,890	193.36	1.06	233.38	0.54	52.43	0.07	58.10	0.01		NA	
4/11/08 2:45	4,905	193.36	1.06	233.38	0.54	52.44	0.08	58.11	0.01		NA	
4/11/08 3:00	4,920	193.36	1.06	233.38	0.54	52.44	0.09	58.11	0.01		NA	
4/11/08 3:15	4,935	193.37	1.07	233.38	0.54	52.45	0.09	58.11	0.02		NA	

Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/11/08 3:30	4,950	193.38	1.08	233.39	0.55	52.44	0.08	58.12	0.02		NA	
4/11/08 3:45	4,965	193.38	1.08	233.39	0.56	52.45	0.10	58.11	0.02		NA	
4/11/08 4:00	4,980	193.37	1.07	233.39	0.56	52.45	0.10	58.12	0.03		NA	
4/11/08 4:15	4,995	193.39	1.09	233.40	0.56	52.46	0.11	58.13	0.04		NA	
4/11/08 4:30	5,010	193.39	1.09	233.40	0.56	52.46	0.11	58.13	0.04		NA	
4/11/08 4:45	5,025	193.39	1.09	233.41	0.57	52.47	0.12	58.14	0.04		NA	
4/11/08 5:00	5,040	193.40	1.10	233.41	0.57	52.47	0.12	58.14	0.04		NA	
4/11/08 5:15	5,055	193.39	1.09	233.41	0.57	52.48	0.13	58.13	0.04		NA	
4/11/08 5:30	5,070	193.40	1.10	233.42	0.58	52.49	0.13	58.14	0.04		NA	
4/11/08 5:45	5,085	193.40	1.10	233.42	0.58	52.47	0.12	58.14	0.04		NA	
4/11/08 6:00	5,100	193.41	1.11	233.42	0.58	52.48	0.13	58.13	0.03		NA	
4/11/08 6:15	5,115	193.41	1.11	233.42	0.58	52.49	0.13	58.14	0.04		NA	
4/11/08 6:30	5,130	193.41	1.12	233.43	0.59	52.48	0.12	58.14	0.04		NA	
4/11/08 6:45	5,145	193.42	1.12	233.43	0.59	52.49	0.14	58.14	0.04		NA	
4/11/08 7:00	5,160	193.42	1.12	233.44	0.60	52.50	0.14	58.14	0.04		NA	
4/11/08 7:15	5,175	193.43	1.13	233.43	0.59	52.49	0.14	58.14	0.05		NA	
4/11/08 7:30	5,190	193.42	1.13	233.44	0.60	52.49	0.14	58.14	0.05		NA	
4/11/08 7:45	5,205	193.43	1.13	233.44	0.60	52.51	0.15	58.14	0.05		NA	
4/11/08 8:00	5,220	193.44	1.14	233.44	0.60	52.50	0.14	58.16	0.06		NA	
4/11/08 8:15	5,235	193.44	1.14	233.45	0.61	52.51	0.15	58.14	0.05		NA	
4/11/08 8:30	5,250	193.45	1.15	233.44	0.60	52.50	0.15	58.14	0.05		NA	
4/11/08 8:45	5,265	193.45	1.15	233.45	0.61	52.51	0.16	58.14	0.05		NA	
4/11/08 9:00	5,280	193.45	1.16	233.45	0.61	52.51	0.16	58.14	0.05		NA	
4/11/08 9:15	5,295	193.45	1.15	233.45	0.62	52.52	0.16	58.15	0.06		NA	
4/11/08 9:30	5,310	193.46	1.16	233.46	0.63	52.52	0.17	58.15	0.05		NA	
4/11/08 9:45	5,325	193.46	1.16	233.46	0.62	52.52	0.16	58.15	0.05		NA	
4/11/08 10:00	5,340	193.48	1.18	233.48	0.64	52.53	0.17	58.15	0.06		NA	
4/11/08 10:15	5,355	193.47	1.17	233.47	0.63	52.52	0.16	58.16	0.06		NA	
4/11/08 10:30	5,370	193.48	1.18	233.48	0.64	52.53	0.17	58.15	0.06		NA	
4/11/08 10:45	5,385	193.47	1.18	233.48	0.64	52.52	0.17	58.16	0.07		NA	
4/11/08 11:00	5,400	193.49	1.19	233.47	0.63	52.53	0.17	58.15	0.06		NA	
4/11/08 11:15	5,415	193.48	1.18	233.49	0.65	52.54	0.18	58.16	0.07		NA	
4/11/08 11:30	5,430	193.50	1.20	233.48	0.64	52.54	0.19	58.16	0.06		NA	
4/11/08 11:45	5,445	193.49	1.19	233.49	0.65	52.53	0.18	58.15	0.06		NA	
4/11/08 12:00	5,460	193.50	1.20	233.49	0.65	52.53	0.17	58.14	0.05		NA	
4/11/08 12:15	5,475	193.51	1.21	233.51	0.67	52.53	0.18	58.16	0.06		NA	
4/11/08 12:30	5,490	193.50	1.20	233.50	0.66	52.53	0.18	58.16	0.07		NA	
4/11/08 12:45	5,505	193.52	1.22	233.51	0.67	52.54	0.19	58.16	0.07		NA	
4/11/08 13:00	5,520	193.52	1.22	233.52	0.69	52.53	0.18	58.17	0.07		NA	
4/11/08 13:15	5,535	193.53	1.23	233.52	0.68	52.54	0.18	58.16	0.07		NA	
4/11/08 13:30	5,550	193.53	1.23	233.52	0.68	52.53	0.18	58.17	0.07		NA	
4/11/08 13:45	5,565	193.52	1.22	233.53	0.69	52.55	0.19	58.17	0.08		NA	
4/11/08 14:00	5,580	193.54	1.24	233.53	0.69	52.54	0.19	58.17	0.08		NA	
4/11/08 14:15	5,595	193.54	1.24	233.54	0.70	52.54	0.19	58.17	0.08		NA	
4/11/08 14:30	5,610	193.55	1.25	233.54	0.70	52.56	0.21	58.17	0.07		NA	
4/11/08 14:45	5,625	193.55	1.25	233.54	0.71	52.55	0.20	58.17	0.07		NA	
4/11/08 15:00	5,640	193.55	1.25	233.55	0.71	52.55	0.19	58.17	0.07		NA	
4/11/08 15:15	5,655	193.56	1.27	233.55	0.71	52.56	0.20	58.18	0.08		NA	
4/11/08 15:30	5,670	193.56	1.26	233.56	0.72	52.55	0.19	58.16	0.07		NA	
4/11/08 15:45	5,685	193.57	1.27	233.55	0.71	52.55	0.20	58.17	0.07		NA	
4/11/08 16:00	5,700	193.57	1.27	233.57	0.73	52.56	0.21	58.18	0.08		NA	
4/11/08 16:15	5,715	193.58	1.28	233.56	0.72	52.56	0.21	58.18	0.09		NA	
4/11/08 16:30	5,730	193.57	1.27	233.57	0.74	52.55	0.19	58.17	0.08		NA	
4/11/08 16:45	5,745	193.58	1.29	233.57	0.73	52.57	0.21	58.18	0.08		NA	
4/11/08 17:00	5,760	193.59	1.29	233.58	0.74	52.56	0.21	58.18	0.09		NA	

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CUBCOW-3 DTW (ft)	3CUBCOW-3 Drawdown	3CUBCOW-3 DTW (ft)	3CUBCOW-3 Drawdown	Comments
4/11/08 17:15	5,775	193.59	1.29	233.58	0.74	52.56	0.20	58.18	0.09					NA
4/11/08 17:30	5,790	193.58	1.29	233.59	0.75	52.56	0.20	58.19	0.09					NA
4/11/08 17:45	5,805	193.60	1.30	233.59	0.75	52.56	0.20	58.19	0.09					NA
4/11/08 18:00	5,820	193.60	1.30	233.59	0.75	52.56	0.20	58.18	0.09					NA
4/11/08 18:15	5,835	193.60	1.30	233.59	0.75	52.56	0.21	58.18	0.09					NA
4/11/08 18:30	5,850	193.60	1.30	233.60	0.76	52.57	0.21	58.19	0.09					NA
4/11/08 18:45	5,865	193.60	1.30	233.60	0.76	52.56	0.21	58.18	0.09					NA
4/11/08 19:00	5,880	193.61	1.31	233.60	0.76	52.56	0.20	58.18	0.09					NA
4/11/08 19:15	5,895	193.62	1.32	233.60	0.77	52.56	0.21	58.19	0.10					NA
4/11/08 19:30	5,910	193.62	1.32	233.60	0.77	52.57	0.22	58.19	0.10					NA
4/11/08 19:45	5,925	193.61	1.32	233.61	0.77	52.57	0.22	58.19	0.10					NA
4/11/08 20:00	5,940	193.62	1.33	233.61	0.77	52.58	0.22	58.20	0.11					NA
4/11/08 20:15	5,955	193.63	1.33	233.63	0.79	52.58	0.23	58.21	0.12					NA
4/11/08 20:30	5,970	193.64	1.34	233.63	0.79	52.59	0.24	58.21	0.12					NA
4/11/08 20:45	5,985	193.64	1.34	233.62	0.78	52.61	0.25	58.22	0.12					NA
4/11/08 21:00	6,000	193.64	1.34	233.63	0.79	52.61	0.25	58.21	0.12					NA
4/11/08 21:15	6,015	193.65	1.35	233.63	0.79	52.61	0.25	58.22	0.13					NA
4/11/08 21:30	6,030	193.65	1.35	233.63	0.79	52.62	0.27	58.22	0.13					NA
4/11/08 21:45	6,045	193.64	1.34	233.63	0.79	52.62	0.27	58.22	0.13					NA
4/11/08 22:00	6,060	193.66	1.36	233.64	0.80	52.62	0.27	58.21	0.12					NA
4/11/08 22:15	6,075	193.65	1.35	233.64	0.80	52.61	0.25	58.22	0.12					NA
4/11/08 22:30	6,090	193.65	1.35	233.64	0.80	52.62	0.26	58.22	0.12					NA
4/11/08 22:45	6,105	193.65	1.35	233.64	0.80	52.60	0.25	58.21	0.11					NA
4/11/08 23:00	6,120	193.65	1.35	233.64	0.80	52.60	0.25	58.21	0.12					NA
4/11/08 23:15	6,135	193.65	1.35	233.65	0.81	52.60	0.25	58.22	0.12					NA
4/11/08 23:30	6,150	193.65	1.35	233.65	0.81	52.61	0.25	58.21	0.11					NA
4/11/08 23:45	6,165	193.65	1.35	233.65	0.81	52.61	0.25	58.21	0.12					NA
4/12/08 0:00	6,180	193.67	1.37	233.64	0.80	52.60	0.25	58.21	0.12					NA
4/12/08 0:15	6,195	193.66	1.36	233.65	0.81	52.60	0.25	58.20	0.11					NA
4/12/08 0:30	6,210	193.67	1.37	233.64	0.81	52.60	0.25	58.21	0.12					NA
4/12/08 0:45	6,225	193.67	1.37	233.65	0.81	52.60	0.24	58.21	0.12					NA
4/12/08 1:00	6,240	193.67	1.37	233.65	0.81	52.58	0.22	58.20	0.11					NA
4/12/08 1:15	6,255	193.67	1.37	233.65	0.81	52.58	0.23	58.21	0.12					NA
4/12/08 1:30	6,270	193.66	1.36	233.65	0.81	52.59	0.23	58.20	0.11					NA
4/12/08 1:45	6,285	193.67	1.37	233.65	0.81	52.57	0.22	58.20	0.10					NA
4/12/08 2:00	6,300	193.66	1.37	233.66	0.82	52.57	0.21	58.19	0.10					NA
4/12/08 2:15	6,315	193.68	1.38	233.66	0.82	52.57	0.21	58.19	0.09					NA
4/12/08 2:30	6,330	193.67	1.37	233.66	0.82	52.56	0.21	58.20	0.10					NA
4/12/08 2:45	6,345	193.68	1.38	233.66	0.82	52.57	0.22	58.20	0.11					NA
4/12/08 3:00	6,360	193.68	1.38	233.66	0.82	52.56	0.21	58.20	0.10					NA
4/12/08 3:15	6,375	193.69	1.39	233.66	0.82	52.57	0.22	58.20	0.11					NA
4/12/08 3:30	6,390	193.69	1.39	233.66	0.82	52.56	0.20	58.19	0.10					NA
4/12/08 3:45	6,405	193.69	1.39	233.67	0.83	52.57	0.21	58.19	0.10					NA
4/12/08 4:00	6,420	193.68	1.38	233.67	0.83	52.56	0.21	58.19	0.10					NA
4/12/08 4:15	6,435	193.69	1.39	233.67	0.83	52.56	0.20	58.19	0.09					NA
4/12/08 4:30	6,450	193.70	1.40	233.67	0.83	52.56	0.21	58.19	0.10					NA
4/12/08 4:45	6,465	193.70	1.40	233.67	0.83	52.55	0.19	58.19	0.09					NA
4/12/08 5:00	6,480	193.70	1.40	233.67	0.83	52.56	0.20	58.19	0.09					NA
4/12/08 5:15	6,495	193.70	1.41	233.67	0.83	52.55	0.19	58.20	0.10					NA
4/12/08 5:30	6,510	193.71	1.41	233.69	0.85	52.55	0.20	58.19	0.10					NA
4/12/08 5:45	6,525	193.70	1.40	233.68	0.84	52.54	0.19	58.19	0.09					NA
4/12/08 6:00	6,540	193.71	1.42	233.68	0.84	52.55	0.20	58.20	0.10					NA
4/12/08 6:15	6,555	193.71	1.41	233.68	0.84	52.55	0.19	58.20	0.10					NA
4/12/08 6:30	6,570	193.71	1.41	233.69	0.85	52.54	0.19	58.19	0.10					NA
4/12/08 6:45	6,585	193.71	1.41	233.69	0.85	52.55	0.20	58.20	0.11					NA

Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/12/08 7:00	6,600	193.73	1.43	233.69	0.85	52.54	0.19	58.20	0.11		NA	
4/12/08 7:15	6,615	193.72	1.42	233.70	0.86	52.55	0.19	58.21	0.11		NA	
4/12/08 7:30	6,630	193.72	1.43	233.70	0.86	52.56	0.20	58.21	0.12		NA	
4/12/08 7:45	6,645	193.73	1.43	233.70	0.86	52.56	0.20	58.21	0.11		NA	
4/12/08 8:00	6,660	193.74	1.44	233.70	0.86	52.55	0.20	58.21	0.11		NA	
4/12/08 8:15	6,675	193.74	1.44	233.71	0.87	52.56	0.20	58.21	0.12		NA	
4/12/08 8:30	6,690	193.74	1.44	233.70	0.86	52.56	0.20	58.21	0.12		NA	
4/12/08 8:45	6,705	193.74	1.44	233.71	0.87	52.54	0.19	58.21	0.12		NA	
4/12/08 9:00	6,720	193.75	1.45	233.71	0.88	52.56	0.20	58.21	0.12		NA	
4/12/08 9:15	6,735	193.75	1.45	233.72	0.88	52.55	0.20	58.21	0.12		NA	
4/12/08 9:30	6,750	193.75	1.45	233.72	0.88	52.54	0.18	58.20	0.11		NA	
4/12/08 9:45	6,765	193.75	1.45	233.72	0.88	52.54	0.19	58.20	0.11		NA	
4/12/08 10:00	6,780	193.75	1.45	233.71	0.87	52.55	0.19	58.20	0.10		NA	
4/12/08 10:15	6,795	193.75	1.45	233.72	0.88	52.54	0.18	58.21	0.11		NA	
4/12/08 10:30	6,810	193.75	1.45	233.72	0.88	52.54	0.19	58.19	0.10		NA	
4/12/08 10:45	6,825	193.76	1.46	233.72	0.88	52.54	0.18	58.20	0.11		NA	
4/12/08 11:00	6,840	193.76	1.46	233.72	0.88	52.53	0.17	58.20	0.10		NA	
4/12/08 11:15	6,855	193.76	1.47	233.72	0.88	52.53	0.18	58.20	0.11		NA	
4/12/08 11:30	6,870	193.76	1.46	233.72	0.88	52.51	0.15	58.18	0.09		NA	
4/12/08 11:45	6,885	193.76	1.47	233.72	0.88	52.50	0.15	58.18	0.09		NA	
4/12/08 12:00	6,900	193.77	1.47	233.72	0.88	52.50	0.15	58.18	0.09		NA	
4/12/08 12:15	6,915	193.76	1.46	233.72	0.88	52.51	0.15	58.18	0.09		NA	
4/12/08 12:30	6,930	193.77	1.47	233.73	0.89	52.50	0.15	58.19	0.10		NA	
4/12/08 12:45	6,945	193.78	1.48	233.74	0.90	52.51	0.15	58.20	0.10		NA	
4/12/08 13:00	6,960	193.79	1.49	233.75	0.91	52.52	0.16	58.21	0.11		NA	
4/12/08 13:15	6,975	193.78	1.48	233.74	0.90	52.53	0.17	58.20	0.11		NA	
4/12/08 13:30	6,990	193.78	1.48	233.75	0.91	52.52	0.17	58.20	0.10		NA	
4/12/08 13:45	7,005	193.79	1.49	233.75	0.91	52.51	0.16	58.19	0.10		NA	
4/12/08 14:00	7,020	193.78	1.48	233.74	0.90	52.50	0.15	58.19	0.09		NA	
4/12/08 14:15	7,035	193.79	1.50	233.75	0.91	52.52	0.17	58.20	0.11		NA	
4/12/08 14:30	7,050	193.80	1.50	233.76	0.92	52.53	0.18	58.22	0.12		NA	
4/12/08 14:45	7,065	193.80	1.51	233.76	0.92	52.52	0.17	58.20	0.11		NA	
4/12/08 15:00	7,080	193.81	1.51	233.76	0.92	52.54	0.18	58.22	0.12		NA	
4/12/08 15:15	7,095	193.81	1.52	233.77	0.93	52.52	0.17	58.20	0.11		NA	
4/12/08 15:30	7,110	193.82	1.52	233.77	0.93	52.52	0.16	58.20	0.11		NA	
4/12/08 15:45	7,125	193.81	1.51	233.78	0.94	52.54	0.19	58.21	0.11		NA	
4/12/08 16:00	7,140	193.81	1.51	233.77	0.94	52.53	0.18	58.21	0.12		NA	
4/12/08 16:15	7,155	193.82	1.52	233.78	0.94	52.53	0.17	58.21	0.12		NA	
4/12/08 16:30	7,170	193.83	1.54	233.78	0.94	52.52	0.16	58.20	0.11		NA	
4/12/08 16:45	7,185	193.82	1.53	233.78	0.94	52.53	0.17	58.20	0.11		NA	
4/12/08 17:00	7,200	193.84	1.54	233.78	0.94	52.51	0.16	58.20	0.11		NA	
4/12/08 17:15	7,215	193.84	1.54	233.78	0.94	52.53	0.17	58.21	0.12		NA	
4/12/08 17:30	7,230	193.85	1.55	233.80	0.96	52.53	0.18	58.21	0.11		NA	
4/12/08 17:45	7,245	193.85	1.55	233.80	0.96	52.53	0.17	58.22	0.12		NA	
4/12/08 18:00	7,260	193.85	1.55	233.80	0.97	52.54	0.18	58.22	0.12		NA	
4/12/08 18:15	7,275	193.85	1.55	233.81	0.97	52.53	0.17	58.22	0.12		NA	
4/12/08 18:30	7,290	193.86	1.56	233.81	0.97	52.54	0.19	58.22	0.13		NA	
4/12/08 18:45	7,305	193.87	1.57	233.81	0.97	52.54	0.18	58.22	0.13		NA	
4/12/08 19:00	7,320	193.87	1.57	233.83	0.99	52.55	0.19	58.23	0.13		NA	
4/12/08 19:15	7,335	193.87	1.57	233.82	0.98	52.54	0.18	58.22	0.13		NA	
4/12/08 19:30	7,350	193.88	1.58	233.81	0.97	52.54	0.19	58.22	0.13		NA	
4/12/08 19:45	7,365	193.88	1.58	233.83	0.99	52.54	0.19	58.22	0.13		NA	
4/12/08 20:00	7,380	193.87	1.57	233.83	0.99	52.55	0.20	58.23	0.13		NA	
4/12/08 20:15	7,395	193.88	1.58	233.83	0.99	52.55	0.19	58.23	0.13		NA	
4/12/08 20:30	7,410	193.88	1.58	233.83	0.99	52.55	0.19	58.23	0.14		NA	

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT (minutes)	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/12/08 20:45	7,425	193.89	1.59	233.83	0.99	52.56	0.21	58.23	0.14	NA		
4/12/08 21:00	7,440	193.88	1.59	233.84	1.00	52.57	0.21	58.24	0.14	NA		
4/12/08 21:15	7,455	193.89	1.59	233.84	1.00	52.57	0.21	58.23	0.14	NA		
4/12/08 21:30	7,470	193.90	1.60	233.84	1.00	52.56	0.20	58.24	0.14	NA		
4/12/08 21:45	7,485	193.90	1.60	233.83	0.99	52.56	0.20	58.23	0.14	NA		
4/12/08 22:00	7,500	193.89	1.60	233.84	1.00	52.57	0.21	58.24	0.15	NA		
4/12/08 22:15	7,515	193.90	1.60	233.84	1.01	52.57	0.22	58.25	0.15	NA		
4/12/08 22:30	7,530	193.90	1.60	233.85	1.01	52.56	0.21	58.24	0.14	NA		
4/12/08 22:45	7,545	193.91	1.61	233.85	1.01	52.57	0.21	58.23	0.14	NA		
4/12/08 23:00	7,560	193.91	1.61	233.85	1.01	52.57	0.22	58.24	0.14	NA		
4/12/08 23:15	7,575	193.90	1.60	233.85	1.02	52.57	0.22	58.25	0.15	NA		
4/12/08 23:30	7,590	193.91	1.61	233.85	1.01	52.56	0.21	58.23	0.14	NA		
4/12/08 23:45	7,605	193.90	1.60	233.85	1.01	52.57	0.21	58.23	0.14	NA		
4/13/08 0:00	7,620	193.91	1.61	233.85	1.01	52.57	0.21	58.24	0.14	NA		
4/13/08 0:15	7,635	193.91	1.61	233.85	1.01	52.56	0.21	58.23	0.14	NA		
4/13/08 0:30	7,650	193.91	1.62	233.85	1.02	52.56	0.21	58.23	0.14	NA		
4/13/08 0:45	7,665	193.91	1.61	233.86	1.02	52.56	0.21	58.23	0.14	NA		
4/13/08 1:00	7,680	193.91	1.61	233.86	1.02	52.55	0.19	58.23	0.14	NA		
4/13/08 1:15	7,695	193.92	1.62	233.86	1.02	52.55	0.19	58.23	0.13	NA		
4/13/08 1:30	7,710	193.91	1.61	233.86	1.02	52.56	0.20	58.22	0.13	NA		
4/13/08 1:45	7,725	193.91	1.61	233.86	1.02	52.54	0.19	58.23	0.14	NA		
4/13/08 2:00	7,740	193.92	1.62	233.86	1.02	52.55	0.19	58.22	0.13	NA		
4/13/08 2:15	7,755	193.92	1.62	233.86	1.02	52.54	0.19	58.23	0.14	NA		
4/13/08 2:30	7,770	193.91	1.61	233.86	1.02	52.54	0.18	58.21	0.12	NA		
4/13/08 2:45	7,785	193.92	1.62	233.86	1.02	52.52	0.17	58.21	0.12	NA		
4/13/08 3:00	7,800	193.92	1.62	233.86	1.02	52.52	0.17	58.22	0.13	NA		
4/13/08 3:15	7,815	193.92	1.62	233.86	1.02	52.52	0.17	58.22	0.13	NA		
4/13/08 3:30	7,830	193.92	1.62	233.86	1.02	52.51	0.16	58.21	0.12	NA		
4/13/08 3:45	7,845	193.93	1.63	233.86	1.02	52.51	0.16	58.21	0.12	NA		
4/13/08 4:00	7,860	193.93	1.63	233.86	1.02	52.51	0.16	58.21	0.12	NA		
4/13/08 4:15	7,875	193.92	1.62	233.87	1.03	52.52	0.16	58.21	0.12	NA		
4/13/08 4:30	7,890	193.93	1.63	233.87	1.03	52.51	0.16	58.22	0.13	NA		
4/13/08 4:45	7,905	193.93	1.63	233.86	1.02	52.52	0.17	58.22	0.12	NA		
4/13/08 5:00	7,920	193.92	1.63	233.86	1.02	52.51	0.15	58.21	0.12	NA		
4/13/08 5:15	7,935	193.93	1.63	233.87	1.03	52.52	0.16	58.22	0.12	NA		
4/13/08 5:30	7,950	193.94	1.65	233.87	1.03	52.51	0.15	58.21	0.12	NA		
4/13/08 5:45	7,965	193.95	1.65	233.88	1.04	52.51	0.15	58.22	0.13	NA		
4/13/08 6:00	7,980	193.94	1.64	233.88	1.04	52.51	0.16	58.22	0.13	NA		
4/13/08 6:15	7,995	193.94	1.64	233.88	1.04	52.51	0.16	58.22	0.12	NA		
4/13/08 6:30	8,010	193.94	1.64	233.88	1.04	52.50	0.15	58.21	0.11	NA		
4/13/08 6:45	8,025	193.95	1.65	233.88	1.04	52.52	0.16	58.22	0.12	NA		
4/13/08 7:00	8,040	193.95	1.66	233.89	1.05	52.50	0.15	58.21	0.12	NA		
4/13/08 7:15	8,055	193.95	1.66	233.89	1.05	52.52	0.16	58.22	0.12	NA		
4/13/08 7:30	8,070	193.97	1.67	233.89	1.06	52.51	0.16	58.22	0.13	NA		
4/13/08 7:45	8,085	193.96	1.66	233.90	1.06	52.52	0.17	58.22	0.13	NA		
4/13/08 8:00	8,100	193.97	1.67	233.90	1.06	52.52	0.17	58.22	0.13	NA		
4/13/08 8:15	8,115	193.96	1.66	233.90	1.06	52.52	0.17	58.22	0.12	NA		
4/13/08 8:30	8,130	193.98	1.68	233.90	1.07	52.52	0.17	58.23	0.14	NA		
4/13/08 8:45	8,145	193.98	1.68	233.91	1.07	52.52	0.17	58.23	0.13	NA		
4/13/08 9:00	8,160	193.98	1.68	233.90	1.07	52.52	0.16	58.22	0.12	NA		
4/13/08 9:15	8,175	193.97	1.68	233.91	1.07	52.50	0.15	58.22	0.13	NA		
4/13/08 9:30	8,190	193.98	1.68	233.91	1.07	52.50	0.15	58.21	0.12	NA		
4/13/08 9:45	8,205	193.97	1.67	233.91	1.07	52.51	0.15	58.21	0.12	NA		
4/13/08 10:00	8,220	193.98	1.68	233.91	1.07	52.50	0.14	58.22	0.13	NA		
4/13/08 10:15	8,235	193.97	1.68	233.91	1.07	52.48	0.14	58.21	0.12	NA		

Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/13/08 10:30	8,250	193.99	1.69	233.91	1.07	52.50	0.14	58.21	0.11		NA	
4/13/08 10:45	8,265	193.99	1.69	233.91	1.07	52.50	0.14	58.20	0.11		NA	
4/13/08 11:00	8,280	193.99	1.69	233.91	1.07	52.49	0.13	58.20	0.10		NA	
4/13/08 11:15	8,295	193.99	1.69	233.91	1.07	52.48	0.12	58.20	0.10		NA	
4/13/08 11:30	8,310	193.99	1.69	233.92	1.08	52.47	0.12	58.20	0.10		NA	
4/13/08 11:45	8,325	193.99	1.69	233.92	1.08	52.47	0.12	58.19	0.09		NA	
4/13/08 12:00	8,340	193.98	1.68	233.91	1.07	52.46	0.11	58.18	0.09		NA	
4/13/08 12:15	8,355	193.99	1.69	233.91	1.07	52.45	0.09	58.18	0.09		NA	
4/13/08 12:30	8,370	193.99	1.69	233.91	1.07	52.44	0.08	58.18	0.09		NA	
4/13/08 12:45	8,385	193.99	1.69	233.91	1.07	52.43	0.08	58.17	0.08		NA	
4/13/08 13:00	8,400	193.99	1.69	233.91	1.07	52.43	0.08	58.17	0.08		NA	
4/13/08 13:15	8,415	193.98	1.68	233.91	1.07	52.42	0.06	58.17	0.07		NA	
4/13/08 13:30	8,430	193.99	1.69	233.91	1.07	52.42	0.07	58.16	0.07		NA	
4/13/08 13:45	8,445	193.99	1.69	233.91	1.07	52.41	0.06	58.16	0.07		NA	
4/13/08 14:00	8,460	193.98	1.69	233.91	1.07	52.40	0.04	58.16	0.06		NA	
4/13/08 14:15	8,475	193.98	1.68	233.90	1.06	52.40	0.05	58.15	0.06		NA	
4/13/08 14:30	8,490	193.98	1.68	233.90	1.06	52.38	0.03	58.15	0.05		NA	
4/13/08 14:45	8,505	193.99	1.69	233.91	1.07	52.39	0.03	58.15	0.06		NA	
4/13/08 15:00	8,520	193.98	1.68	233.90	1.06	52.37	0.02	58.15	0.05		NA	
4/13/08 15:15	8,535	193.98	1.68	233.91	1.07	52.37	0.02	58.14	0.05		NA	
4/13/08 15:30	8,550	193.98	1.68	233.91	1.07	52.36	0.00	58.14	0.04		NA	
4/13/08 15:45	8,565	193.98	1.68	233.91	1.07	52.36	0.00	58.14	0.05		NA	
4/13/08 16:00	8,580	193.98	1.68	233.91	1.07	52.35	0.00	58.13	0.04		NA	
4/13/08 16:15	8,595	193.98	1.68	233.90	1.06	52.35	0.00	58.13	0.04		NA	
4/13/08 16:30	8,610	193.98	1.69	233.92	1.08	52.35	-0.01	58.13	0.03		NA	
4/13/08 16:45	8,625	193.99	1.69	233.92	1.08	52.35	0.00	58.14	0.05		NA	
4/13/08 17:00	8,640	193.99	1.69	233.92	1.08	52.34	-0.02	58.14	0.04		NA	
4/13/08 17:15	8,655	194.00	1.70	233.92	1.08	52.33	-0.02	58.13	0.04		NA	
4/13/08 17:30	8,670	193.99	1.69	233.92	1.08	52.34	-0.01	58.13	0.03		NA	
4/13/08 17:45	8,685	194.00	1.70	233.92	1.08	52.34	-0.01	58.13	0.03		NA	
4/13/08 18:00	8,700	194.00	1.70	233.92	1.08	52.33	-0.03	58.12	0.03		NA	
4/13/08 18:15	8,715	194.00	1.70	233.91	1.07	52.33	-0.02	58.12	0.03		NA	
4/13/08 18:30	8,730	194.00	1.70	233.93	1.09	52.32	-0.03	58.12	0.03		NA	
4/13/08 18:45	8,745	194.00	1.70	233.93	1.09	52.32	-0.04	58.12	0.02		NA	
4/13/08 19:00	8,760	194.01	1.71	233.93	1.09	52.31	-0.04	58.11	0.02		NA	
4/13/08 19:15	8,775	194.00	1.70	233.93	1.09	52.32	-0.04	58.12	0.02		NA	
4/13/08 19:30	8,790	194.01	1.71	233.93	1.09	52.31	-0.04	58.12	0.02		NA	
4/13/08 19:45	8,805	194.01	1.71	233.93	1.09	52.30	-0.05	58.11	0.02		NA	
4/13/08 20:00	8,820	194.01	1.71	233.93	1.09	52.31	-0.04	58.11	0.02		NA	
4/13/08 20:15	8,835	194.01	1.71	233.93	1.09	52.31	-0.04	58.12	0.02		NA	
4/13/08 20:30	8,850	194.01	1.72	233.93	1.09	52.30	-0.05	58.11	0.02		NA	
4/13/08 20:45	8,865	194.02	1.72	233.94	1.10	52.32	-0.04	58.11	0.02		NA	
4/13/08 21:00	8,880	194.02	1.72	233.94	1.10	52.31	-0.05	58.12	0.02		NA	
4/13/08 21:15	8,895	194.02	1.72	233.94	1.10	52.31	-0.05	58.12	0.03		NA	
4/13/08 21:30	8,910	194.02	1.72	233.94	1.10	52.32	-0.03	58.12	0.03		NA	
4/13/08 21:45	8,925	194.03	1.73	233.94	1.10	52.33	-0.02	58.13	0.03		NA	
4/13/08 22:00	8,940	194.02	1.72	233.94	1.10	52.31	-0.04	58.11	0.02		NA	
4/13/08 22:15	8,955	194.02	1.72	233.94	1.10	52.32	-0.04	58.12	0.02		NA	
4/13/08 22:30	8,970	194.01	1.72	233.94	1.10	52.31	-0.05	58.11	0.02		NA	
4/13/08 22:45	8,985	194.01	1.71	233.93	1.09	52.30	-0.05	58.12	0.02		NA	
4/13/08 23:00	9,000	194.02	1.72	233.94	1.10	52.31	-0.05	58.11	0.02		NA	
4/13/08 23:15	9,015	194.02	1.72	233.93	1.09	52.30	-0.06	58.11	0.02		NA	
4/13/08 23:30	9,030	194.02	1.72	233.93	1.09	52.29	-0.06	58.10	0.01		NA	
4/13/08 23:45	9,045	194.01	1.72	233.93	1.09	52.30	-0.05	58.10	0.01		NA	
4/14/08 0:00	9,060	194.02	1.72	233.93	1.09	52.29	-0.06	58.10	0.01		NA	

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/14/08 0:15	9,075	194.02	1.72	233.93	1.09	52.29	-0.06	58.10	0.01			NA
4/14/08 0:30	9,090	194.01	1.71	233.93	1.09	52.29	-0.07	58.10	0.01			NA
4/14/08 0:45	9,105	194.02	1.72	233.93	1.09	52.30	-0.06	58.10	0.00			NA
4/14/08 1:00	9,120	194.02	1.72	233.93	1.09	52.29	-0.06	58.10	0.01			NA
4/14/08 1:15	9,135	194.02	1.72	233.93	1.09	52.28	-0.08	58.10	0.00			NA
4/14/08 1:30	9,150	194.01	1.71	233.93	1.09	52.28	-0.08	58.10	0.01			NA
4/14/08 1:45	9,165	194.01	1.72	233.92	1.08	52.28	-0.07	58.09	0.00			NA
4/14/08 2:00	9,180	194.01	1.71	233.92	1.09	52.27	-0.09	58.09	0.00			NA
4/14/08 2:15	9,195	194.01	1.72	233.92	1.08	52.27	-0.08	58.09	0.00			NA
4/14/08 2:30	9,210	194.01	1.71	233.93	1.09	52.26	-0.09	58.10	0.00			NA
4/14/08 2:45	9,225	194.00	1.70	233.92	1.08	52.27	-0.08	58.08	-0.01			NA
4/14/08 3:00	9,240	194.00	1.70	233.92	1.08	52.26	-0.10	58.07	-0.02			NA
4/14/08 3:15	9,255	194.01	1.71	233.92	1.08	52.25	-0.10	58.08	-0.01			NA
4/14/08 3:30	9,270	194.01	1.71	233.92	1.08	52.25	-0.11	58.08	-0.02			NA
4/14/08 3:45	9,285	194.01	1.71	233.92	1.08	52.26	-0.10	58.08	-0.01			NA
4/14/08 4:00	9,300	194.01	1.71	233.92	1.08	52.25	-0.10	58.08	-0.02			NA
4/14/08 4:15	9,315	194.01	1.71	233.92	1.08	52.24	-0.11	58.07	-0.02			NA
4/14/08 4:30	9,330	194.01	1.72	233.92	1.08	52.24	-0.11	58.07	-0.02			NA
4/14/08 4:45	9,345	194.00	1.70	233.92	1.08	52.24	-0.12	58.07	-0.02			NA
4/14/08 5:00	9,360	194.01	1.71	233.92	1.08	52.25	-0.11	58.07	-0.02			NA
4/14/08 5:15	9,375	194.02	1.72	233.92	1.08	52.24	-0.11	58.07	-0.02			NA
4/14/08 5:30	9,390	194.00	1.71	233.92	1.08	52.24	-0.12	58.07	-0.03			NA
4/14/08 5:45	9,405	194.01	1.71	233.92	1.08	52.25	-0.11	58.08	-0.02			NA
4/14/08 6:00	9,420	194.01	1.71	233.92	1.08	52.25	-0.11	58.08	-0.01			NA
4/14/08 6:15	9,435	194.01	1.71	233.93	1.09	52.25	-0.10	58.08	-0.01			NA
4/14/08 6:30	9,450	194.02	1.72	233.93	1.09	52.25	-0.10	58.09	-0.01			NA
4/14/08 6:45	9,465	194.02	1.72	233.93	1.09	52.26	-0.10	58.08	-0.01			NA
4/14/08 7:00	9,480	194.02	1.73	233.94	1.10	52.26	-0.09	58.08	-0.01			NA
4/14/08 7:15	9,495	194.03	1.73	233.94	1.10	52.25	-0.11	58.08	-0.02			NA
4/14/08 7:30	9,510	194.03	1.73	233.93	1.10	52.25	-0.10	58.07	-0.02			NA
4/14/08 7:45	9,525	194.02	1.72	233.94	1.10	52.25	-0.11	58.07	-0.02			NA
4/14/08 8:00	9,540	194.04	1.74	233.94	1.10	52.24	-0.11	58.07	-0.02			NA
4/14/08 8:15	9,555	194.03	1.73	233.94	1.10	52.25	-0.11	58.07	-0.02			NA
4/14/08 8:30	9,570	194.03	1.73	233.94	1.10	52.24	-0.11	58.07	-0.02			NA
4/14/08 8:45	9,585	194.04	1.74	233.93	1.09	52.25	-0.11	58.08	-0.02	78.36	NA	
4/14/08 9:00	9,600	194.04	1.74	233.94	1.10	52.24	-0.12	58.07	-0.02	78.20	NA	
4/14/08 9:15	9,615	194.03	1.73	233.94	1.10	52.24	-0.12	58.06	-0.04	78.18	NA	
4/14/08 9:30	9,630	194.03	1.73	233.94	1.10	52.23	-0.13	58.06	-0.04	78.17	NA	
4/14/08 9:45	9,645	194.04	1.74	233.93	1.10	52.22	-0.14	58.06	-0.03	78.17	NA	
4/14/08 10:00	9,660	194.04	1.74	233.94	1.10	52.21	-0.14	58.06	-0.03	78.16	NA	
4/14/08 10:15	9,675	194.04	1.74	233.94	1.10	52.21	-0.15	58.05	-0.04	78.16	NA	
4/14/08 10:30	9,690	194.02	1.72	233.94	1.10	52.21	-0.14	58.05	-0.05	78.15	NA	
4/14/08 10:45	9,705	194.03	1.74	233.94	1.10	52.20	-0.15	58.05	-0.05	78.15	NA	
4/14/08 11:00	9,720	194.03	1.73	233.94	1.10	52.21	-0.14	58.05	-0.05	78.15	NA	
4/14/08 11:15	9,735	194.04	1.74	233.94	1.10	52.20	-0.16	58.04	-0.05	78.15	NA	
4/14/08 11:30	9,750	194.02	1.73	233.93	1.09	52.19	-0.16	58.04	-0.06	78.14	NA	
4/14/08 11:45	9,765	194.03	1.74	233.94	1.10	52.20	-0.16	58.05	-0.04	78.14	NA	
4/14/08 12:00	9,780	194.02	1.72	233.93	1.09	52.19	-0.17	58.04	-0.06	78.14	NA	
4/14/08 12:15	9,795	194.02	1.72	233.93	1.09	52.19	-0.16	58.03	-0.07	78.13	NA	
4/14/08 12:30	9,810	194.02	1.72	233.93	1.09	52.18	-0.17	58.02	-0.07	78.13	NA	
4/14/08 12:45	9,825	194.02	1.72	233.92	1.08	52.17	-0.18	58.03	-0.06	78.12	NA	
4/14/08 13:00	9,840	194.01	1.72	233.93	1.09	52.17	-0.18	58.03	-0.06	78.12	NA	
4/14/08 13:15	9,855	194.03	1.73	233.92	1.08	52.17	-0.19	58.02	-0.08	78.12	NA	
4/14/08 13:30	9,870	194.01	1.71	233.93	1.09	52.16	-0.20	58.02	-0.08	78.11	NA	
4/14/08 13:45	9,885	194.02	1.72	233.93	1.09	52.16	-0.20	58.02	-0.08	78.11	NA	

Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/14/08 14:00	9,900	194.01	1.71	233.92	1.08	52.14	-0.22	58.01	-0.08	78.11	NA	
4/14/08 14:15	9,915	194.02	1.72	233.92	1.08	52.14	-0.21	58.00	-0.10	78.10	NA	
4/14/08 14:30	9,930	194.01	1.71	233.92	1.08	52.13	-0.23	57.99	-0.10	78.09	NA	
4/14/08 14:45	9,945	194.01	1.72	233.92	1.08	52.13	-0.23	57.99	-0.10	78.09	NA	
4/14/08 15:00	9,960	194.02	1.72	233.92	1.08	52.12	-0.23	58.00	-0.10	78.09	NA	
4/14/08 15:15	9,975	194.01	1.71	233.91	1.07	52.12	-0.24	57.99	-0.11	78.08	NA	
4/14/08 15:30	9,990	194.01	1.71	233.91	1.07	52.09	-0.26	57.98	-0.12	78.07	NA	
4/14/08 15:45	10,005	194.00	1.70	233.91	1.07	52.11	-0.25	57.99	-0.11	78.07	NA	
4/14/08 16:00	10,020	194.00	1.70	233.91	1.07	52.10	-0.26	57.99	-0.11	78.07	NA	
4/14/08 16:15	10,035	194.01	1.71	233.91	1.07	52.09	-0.26	57.99	-0.11	78.07	NA	
4/14/08 16:30	10,050	194.01	1.72	233.92	1.08	52.10	-0.25	57.98	-0.11	78.07	NA	
4/14/08 16:45	10,065	194.02	1.72	233.90	1.06	52.09	-0.26	57.98	-0.12	78.08	NA	
4/14/08 17:00	10,080	194.01	1.72	233.91	1.07	52.09	-0.26	57.98	-0.12	78.07	NA	
4/14/08 17:15	10,095	194.02	1.72	233.92	1.08	52.09	-0.27	57.98	-0.12	78.08	NA	
4/14/08 17:30	10,110	194.01	1.72	233.92	1.08	52.09	-0.26	57.97	-0.12	78.07	NA	
4/14/08 17:45	10,125	194.01	1.72	233.91	1.07	52.10	-0.26	57.97	-0.12	78.07	NA	
4/14/08 18:00	10,140	194.02	1.72	233.91	1.07	52.08	-0.27	57.97	-0.12	78.08	NA	
4/14/08 18:15	10,155	194.01	1.71	233.92	1.08	52.08	-0.28	57.97	-0.13	78.08	NA	
4/14/08 18:30	10,170	194.01	1.71	233.92	1.08	52.09	-0.27	57.97	-0.13	78.07	NA	
4/14/08 18:45	10,185	194.02	1.72	233.92	1.08	52.09	-0.27	57.98	-0.12	78.07	NA	
4/14/08 19:00	10,200	194.02	1.72	233.92	1.08	52.08	-0.27	57.97	-0.13	78.08	NA	
4/14/08 19:15	10,215	194.02	1.72	233.92	1.08	52.08	-0.28	57.98	-0.12	78.07	NA	
4/14/08 19:30	10,230	194.01	1.72	233.92	1.08	52.09	-0.27	57.97	-0.13	78.07	NA	
4/14/08 19:45	10,245	194.02	1.72	233.92	1.08	52.09	-0.26	57.97	-0.12	78.08	NA	
4/14/08 20:00	10,260	194.02	1.72	233.93	1.09	52.10	-0.26	57.98	-0.12	78.08	NA	
4/14/08 20:15	10,275	194.04	1.74	233.92	1.08	52.10	-0.26	57.98	-0.11	78.09	NA	
4/14/08 20:30	10,290	194.03	1.73	233.93	1.09	52.11	-0.24	57.98	-0.11	78.09	NA	
4/14/08 20:45	10,305	194.04	1.75	233.93	1.09	52.11	-0.24	58.00	-0.10	78.10	NA	
4/14/08 21:00	10,320	194.04	1.74	233.93	1.09	52.12	-0.23	57.99	-0.10	78.10	NA	
4/14/08 21:15	10,335	194.05	1.75	233.94	1.10	52.13	-0.22	57.99	-0.10	78.11	NA	
4/14/08 21:30	10,350	194.05	1.75	233.94	1.10	52.14	-0.22	58.01	-0.09	78.11	NA	
4/14/08 21:45	10,365	194.04	1.74	233.94	1.10	52.14	-0.22	58.00	-0.09	78.11	NA	
4/14/08 22:00	10,380	194.05	1.75	233.94	1.10	52.13	-0.22	58.00	-0.09	78.11	NA	
4/14/08 22:15	10,395	194.05	1.75	233.94	1.10	52.12	-0.23	58.00	-0.09	78.11	NA	
4/14/08 22:30	10,410	194.04	1.74	233.94	1.10	52.14	-0.22	58.00	-0.10	78.10	NA	
4/14/08 22:45	10,425	194.04	1.75	233.94	1.10	52.14	-0.22	58.00	-0.09	78.10	NA	
4/14/08 23:00	10,440	194.04	1.74	233.94	1.10	52.12	-0.23	57.98	-0.11	78.10	NA	
4/14/08 23:15	10,455	194.04	1.74	233.94	1.10	52.13	-0.23	57.99	-0.11	78.10	NA	
4/14/08 23:30	10,470	194.04	1.74	233.94	1.10	52.12	-0.23	57.98	-0.11	78.09	NA	
4/14/08 23:45	10,485	194.05	1.75	233.94	1.10	52.12	-0.23	57.97	-0.12	78.09	NA	
4/15/08 0:00	10,500	194.05	1.75	233.94	1.10	52.12	-0.24	57.97	-0.12	78.08	NA	
4/15/08 0:15	10,515	194.05	1.75	233.93	1.09	52.11	-0.24	57.97	-0.12	78.08	NA	
4/15/08 0:30	10,530	194.03	1.73	233.93	1.09	52.12	-0.24	57.97	-0.12	78.07	NA	
4/15/08 0:45	10,545	194.03	1.73	233.93	1.09	52.11	-0.24	57.97	-0.13	78.07	NA	
4/15/08 1:00	10,560	194.04	1.75	233.93	1.09	52.11	-0.24	57.97	-0.13	78.07	NA	
4/15/08 1:15	10,575	194.03	1.73	233.93	1.09	52.10	-0.25	57.97	-0.13	78.06	NA	
4/15/08 1:30	10,590	194.04	1.74	233.92	1.08	52.10	-0.26	57.96	-0.13	78.06	NA	
4/15/08 1:45	10,605	194.03	1.73	233.92	1.08	52.09	-0.26	57.97	-0.13	78.06	NA	
4/15/08 2:00	10,620	194.02	1.73	233.92	1.08	52.09	-0.27	57.96	-0.13	78.05	NA	
4/15/08 2:15	10,635	194.03	1.73	233.92	1.08	52.08	-0.27	57.95	-0.14	78.05	NA	
4/15/08 2:30	10,650	194.03	1.73	233.91	1.07	52.09	-0.27	57.96	-0.14	78.04	NA	
4/15/08 2:45	10,665	194.02	1.72	233.92	1.08	52.08	-0.27	57.94	-0.15	78.04	NA	
4/15/08 3:00	10,680	194.01	1.71	233.91	1.07	52.07	-0.28	57.94	-0.16	78.04	NA	
4/15/08 3:15	10,695	194.02	1.72	233.91	1.07	52.05	-0.30	57.93	-0.16	78.03	NA	
4/15/08 3:30	10,710	194.02	1.72	233.91	1.07	52.06	-0.29	57.93	-0.16	78.03	NA	

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/15/08 3:45	10,725	194.02	1.72	233.90	1.06	52.06	-0.30	57.94	-0.16	78.03	NA	
4/15/08 4:00	10,740	194.00	1.71	233.89	1.05	52.05	-0.30	57.92	-0.17	78.02	NA	
4/15/08 4:15	10,755	194.01	1.71	233.90	1.06	52.04	-0.31	57.93	-0.17	78.02	NA	
4/15/08 4:30	10,770	194.02	1.72	233.90	1.06	52.04	-0.31	57.93	-0.16	78.01	NA	
4/15/08 4:45	10,785	194.01	1.71	233.90	1.06	52.05	-0.31	57.92	-0.17	78.02	NA	
4/15/08 5:00	10,800	194.00	1.70	233.90	1.06	52.05	-0.31	57.93	-0.16	78.01	NA	
4/15/08 5:15	10,815	194.01	1.72	233.89	1.05	52.04	-0.31	57.92	-0.18	78.01	NA	
4/15/08 5:30	10,830	194.01	1.71	233.90	1.06	52.03	-0.33	57.92	-0.17	78.01	NA	
4/15/08 5:45	10,845	194.01	1.71	233.89	1.05	52.03	-0.32	57.92	-0.17	78.01	NA	
4/15/08 6:00	10,860	194.01	1.71	233.90	1.06	52.04	-0.32	57.92	-0.18	78.01	NA	
4/15/08 6:15	10,875	194.02	1.72	233.90	1.06	52.03	-0.32	57.93	-0.17	78.01	NA	
4/15/08 6:30	10,890	194.01	1.71	233.89	1.06	52.04	-0.31	57.92	-0.18	78.01	NA	
4/15/08 6:45	10,905	194.01	1.71	233.90	1.06	52.03	-0.32	57.91	-0.18	78.01	NA	
4/15/08 7:00	10,920	194.01	1.71	233.90	1.06	52.04	-0.31	57.92	-0.18	78.02	NA	
4/15/08 7:15	10,935	194.02	1.72	233.90	1.06	52.03	-0.33	57.92	-0.17	78.01	NA	
4/15/08 7:30	10,950	194.02	1.72	233.90	1.06	52.04	-0.32	57.91	-0.19	78.01	NA	
4/15/08 7:45	10,965	194.02	1.72	233.91	1.07	52.02	-0.33	57.92	-0.18	78.01	NA	
4/15/08 8:00	10,980	194.02	1.72	233.90	1.06	52.03	-0.32	57.91	-0.18	78.01	NA	Stop pumping, begin recovery
4/15/08 8:15	10,995	194.05	1.75	233.90	1.06	52.03	-0.33	57.91	-0.18	78.02	NA	
4/15/08 8:30	11,010	194.05	1.75	233.90	1.07	52.02	-0.33	57.91	-0.18	78.01	NA	
4/15/08 8:45	11,025	194.03	1.74	233.91	1.07	52.02	-0.33	57.92	-0.18	78.01	NA	
4/15/08 9:00	11,040	194.04	1.74	233.91	1.07	52.03	-0.32	57.91	-0.18	78.01	NA	
4/15/08 9:15	11,055	194.04	1.75	233.91	1.07	52.03	-0.33	57.91	-0.19	78.01	NA	
4/15/08 9:30	11,070	194.05	1.75	233.91	1.07	52.03	-0.33	57.92	-0.18	78.01	NA	
4/15/08 9:45	11,085	194.04	1.74	233.90	1.06	52.03	-0.32	57.91	-0.18	78.01	NA	
4/15/08 10:00	11,100	194.04	1.74	233.91	1.07	52.03	-0.32	57.92	-0.18	78.01	NA	
4/15/08 10:15	11,115	194.05	1.75	233.92	1.08	52.03	-0.33	57.92	-0.18	78.01	NA	
4/15/08 10:30	11,130	194.04	1.74	233.90	1.06	52.03	-0.32	57.90	-0.19	78.01	NA	
4/15/08 10:45	11,145	194.04	1.74	233.92	1.08	52.02	-0.33	57.91	-0.18	78.01	NA	
4/15/08 11:00	11,160	194.04	1.75	233.91	1.07	52.04	-0.32	57.90	-0.19	78.01	NA	
4/15/08 11:15	11,175	194.04	1.74	233.91	1.07	52.02	-0.33	57.90	-0.19	78.01	NA	
4/15/08 11:30	11,190	194.04	1.74	233.91	1.07	52.03	-0.33	57.90	-0.19	78.00	NA	
4/15/08 11:45	11,205	194.03	1.73	233.91	1.07	52.02	-0.34	57.89	-0.21	77.99	NA	
4/15/08 12:00	11,220	194.02	1.72	233.91	1.07	52.02	-0.33	57.89	-0.20	77.99	NA	
4/15/08 12:15	11,235	194.02	1.72	233.90	1.06	52.01	-0.34	57.88	-0.21	77.99	NA	
4/15/08 12:30	11,250	194.02	1.72	233.90	1.06	52.01	-0.35	57.88	-0.21	77.99	NA	
4/15/08 12:45	11,265	194.01	1.71	233.89	1.05	51.98	-0.38	57.87	-0.23	77.97	NA	
4/15/08 13:00	11,280	194.00	1.70	233.89	1.05	51.98	-0.37	57.86	-0.23	77.97	NA	
4/15/08 13:15	11,295	194.01	1.71	233.89	1.05	51.97	-0.38	57.86	-0.23	77.97	NA	
4/15/08 13:30	11,310	193.99	1.69	233.88	1.04	51.96	-0.39	57.86	-0.23	77.96	NA	
4/15/08 13:45	11,325	193.99	1.69	233.88	1.04	51.96	-0.40	57.85	-0.24	77.95	NA	
4/15/08 14:00	11,340	194.00	1.70	233.88	1.04	51.96	-0.40	57.85	-0.24	77.96	NA	
4/15/08 14:15	11,355	193.98	1.68	233.86	1.02	51.96	-0.39	57.85	-0.25	77.95	NA	
4/15/08 14:30	11,370	193.98	1.69	233.87	1.03	51.95	-0.41	57.85	-0.24	77.94	NA	
4/15/08 14:45	11,385	193.97	1.67	233.86	1.02	51.93	-0.43	57.85	-0.25	77.94	NA	
4/15/08 15:00	11,400	193.97	1.68	233.86	1.02	51.95	-0.41	57.84	-0.26	77.94	NA	
4/15/08 15:15	11,415	193.96	1.66	233.86	1.02	51.94	-0.41	57.84	-0.25	77.94	NA	
4/15/08 15:30	11,430	193.97	1.67	233.85	1.01	51.95	-0.41	57.84	-0.25	77.94	NA	
4/15/08 15:45	11,445	193.96	1.66	233.85	1.01	51.93	-0.43	57.83	-0.26	77.93	NA	
4/15/08 16:00	11,460	193.95	1.65	233.85	1.01	51.93	-0.42	57.83	-0.27	77.93	NA	
4/15/08 16:15	11,475	193.95	1.65	233.84	1.00	51.93	-0.42	57.82	-0.27	77.93	NA	
4/15/08 16:30	11,490	193.94	1.65	233.83	0.99	51.92	-0.43	57.82	-0.27	77.93	NA	
4/15/08 16:45	11,505	193.93	1.63	233.83	0.99	51.92	-0.44	57.83	-0.26	77.93	NA	
4/15/08 17:00	11,520	193.93	1.63	233.83	0.99	51.93	-0.42	57.83	-0.26	77.93	NA	
4/15/08 17:15	11,535	193.94	1.64	233.82	0.98	51.92	-0.43	57.84	-0.25	77.93	NA	

Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/15/08 17:30	11,550	193.93	1.63	233.83	0.99	51.94	-0.41	57.84	-0.26	77.94	NA	
4/15/08 17:45	11,565	193.92	1.63	233.83	0.99	51.94	-0.42	57.84	-0.26	77.94	NA	
4/15/08 18:00	11,580	193.93	1.63	233.82	0.98	51.94	-0.42	57.84	-0.26	77.95	NA	
4/15/08 18:15	11,595	193.92	1.63	233.82	0.98	51.96	-0.40	57.85	-0.24	77.96	NA	
4/15/08 18:30	11,610	193.93	1.64	233.83	0.99	51.96	-0.39	57.85	-0.25	77.96	NA	
4/15/08 18:45	11,625	193.92	1.62	233.83	0.99	51.98	-0.37	57.86	-0.23	77.97	NA	
4/15/08 19:00	11,640	193.92	1.62	233.83	0.99	51.97	-0.38	57.86	-0.23	77.98	NA	
4/15/08 19:15	11,655	193.93	1.63	233.84	1.00	51.99	-0.36	57.87	-0.23	77.98	NA	
4/15/08 19:30	11,670	193.92	1.62	233.84	1.00	52.01	-0.35	57.88	-0.21	77.99	NA	
4/15/08 19:45	11,685	193.92	1.63	233.85	1.01	52.02	-0.33	57.90	-0.20	78.01	NA	
4/15/08 20:00	11,700	193.95	1.65	233.87	1.03	52.06	-0.29	57.95	-0.14	78.05	NA	
4/15/08 20:15	11,715	193.96	1.66	233.89	1.05	52.12	-0.23	57.98	-0.12	78.10	NA	
4/15/08 20:30	11,730	193.96	1.66	233.88	1.04	52.14	-0.22	57.98	-0.11	78.11	NA	
4/15/08 20:45	11,745	193.97	1.67	233.89	1.05	52.15	-0.20	57.98	-0.11	78.12	NA	
4/15/08 21:00	11,760	193.96	1.66	233.90	1.06	52.17	-0.18	57.98	-0.12	78.13	NA	
4/15/08 21:15	11,775	193.96	1.67	233.90	1.06	52.17	-0.18	57.98	-0.12	78.12	NA	
4/15/08 21:30	11,790	193.96	1.66	233.91	1.07	52.20	-0.16	57.99	-0.10	78.14	NA	
4/15/08 21:45	11,805	193.97	1.67	233.91	1.07	52.21	-0.15	57.98	-0.11	78.13	NA	
4/15/08 22:00	11,820	193.96	1.66	233.91	1.07	52.23	-0.12	58.01	-0.09	78.14	NA	
4/15/08 22:15	11,835	193.96	1.66	233.92	1.08	52.23	-0.13	58.00	-0.09	78.14	NA	
4/15/08 22:30	11,850	193.97	1.67	233.92	1.08	52.24	-0.12	58.01	-0.09	78.14	NA	
4/15/08 22:45	11,865	193.96	1.66	233.93	1.09	52.26	-0.09	58.03	-0.06	78.15	NA	
4/15/08 23:00	11,880	193.98	1.68	233.93	1.09	52.29	-0.06	58.04	-0.05	78.16	NA	
4/15/08 23:15	11,895	193.99	1.69	233.94	1.10	52.29	-0.06	58.04	-0.05	78.17	NA	
4/15/08 23:30	11,910	193.98	1.68	233.94	1.10	52.32	-0.04	58.05	-0.04	78.17	NA	
4/15/08 23:45	11,925	193.98	1.68	233.94	1.10	52.32	-0.03	58.06	-0.04	78.17	NA	
4/16/08 0:00	11,940	193.95	1.66	233.93	1.09	52.31	-0.04	58.03	-0.07	78.16	NA	
4/16/08 0:15	11,955	193.96	1.66	233.93	1.10	52.32	-0.04	58.03	-0.06	78.15	NA	
4/16/08 0:30	11,970	193.96	1.66	233.93	1.09	52.33	-0.02	58.04	-0.05	78.16	NA	
4/16/08 0:45	11,985	193.96	1.66	233.94	1.10	52.33	-0.02	58.05	-0.04	78.16	NA	
4/16/08 1:00	12,000	193.95	1.65	233.94	1.10	52.36	0.00	58.05	-0.04	78.16	NA	
4/16/08 1:15	12,015	193.96	1.66	233.94	1.10	52.37	0.01	58.07	-0.02	78.16	NA	
4/16/08 1:30	12,030	193.95	1.65	233.93	1.09	52.36	0.01	58.05	-0.05	78.16	NA	
4/16/08 1:45	12,045	193.94	1.65	233.94	1.10	52.37	0.01	58.05	-0.04	78.16	NA	
4/16/08 2:00	12,060	193.95	1.65	233.94	1.10	52.38	0.02	58.07	-0.02	78.16	NA	
4/16/08 2:15	12,075	193.95	1.65	233.94	1.10	52.37	0.02	58.06	-0.04	78.16	NA	
4/16/08 2:30	12,090	193.95	1.65	233.95	1.11	52.41	0.05	58.09	0.00	78.17	NA	
4/16/08 2:45	12,105	193.93	1.63	233.94	1.10	52.40	0.04	58.07	-0.02	78.18	NA	
4/16/08 3:00	12,120	193.93	1.63	233.95	1.11	52.40	0.04	58.08	-0.02	78.17	NA	
4/16/08 3:15	12,135	193.93	1.64	233.95	1.11	52.42	0.06	58.08	-0.01	78.18	NA	
4/16/08 3:30	12,150	193.92	1.62	233.94	1.10	52.40	0.05	58.08	-0.02	78.17	NA	
4/16/08 3:45	12,165	193.93	1.63	233.94	1.10	52.41	0.05	58.09	-0.01	78.17	NA	
4/16/08 4:00	12,180	193.92	1.63	233.94	1.10	52.41	0.06	58.08	-0.02	78.17	NA	
4/16/08 4:15	12,195	193.92	1.62	233.94	1.10	52.41	0.06	58.09	-0.01	78.17	NA	
4/16/08 4:30	12,210	193.93	1.63	233.95	1.11	52.44	0.09	58.10	0.01	78.18	NA	
4/16/08 4:45	12,225	193.92	1.62	233.96	1.12	52.44	0.09	58.10	0.00	78.19	NA	
4/16/08 5:00	12,240	193.92	1.62	233.95	1.11	52.45	0.10	58.09	0.00	78.18	NA	
4/16/08 5:15	12,255	193.92	1.62	233.95	1.11	52.46	0.10	58.10	0.00	78.19	NA	
4/16/08 5:30	12,270	193.92	1.62	233.95	1.11	52.46	0.11	58.11	0.02	78.19	NA	
4/16/08 5:45	12,285	193.91	1.62	233.95	1.11	52.48	0.13	58.12	0.02	78.20	NA	
4/16/08 6:00	12,300	193.91	1.61	233.95	1.12	52.49	0.13	58.12	0.02	78.20	NA	
4/16/08 6:15	12,315	193.91	1.61	233.96	1.12	52.49	0.14	58.12	0.03	78.20	NA	
4/16/08 6:30	12,330	193.91	1.61	233.96	1.12	52.48	0.13	58.11	0.02	78.20	NA	
4/16/08 6:45	12,345	193.91	1.61	233.97	1.13	52.48	0.13	58.11	0.02	78.20	NA	
4/16/08 7:00	12,360	193.90	1.60	233.96	1.12	52.48	0.12	58.12	0.02	78.20	NA	

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/16/08 7:15	12,375	193.91	1.61	233.97	1.13	52.49	0.14	58.12	0.02	78.19	NA	
4/16/08 7:30	12,390	193.90	1.60	233.96	1.12	52.48	0.12	58.10	0.01	78.19	NA	
4/16/08 7:45	12,405	193.90	1.60	233.96	1.13	52.49	0.14	58.11	0.01	78.19	NA	
4/16/08 8:00	12,420	193.91	1.61	233.96	1.12	52.48	0.13	58.11	0.01	78.19	NA	
4/16/08 8:15	12,435	193.91	1.61	233.97	1.13	52.50	0.15	58.12	0.02	78.19	NA	
4/16/08 8:30	12,450	193.90	1.60	233.97	1.13	52.50	0.15	58.11	0.01	78.19	NA	
4/16/08 8:45	12,465	193.90	1.60	233.97	1.13	52.49	0.13	58.10	0.01	78.19	NA	
4/16/08 9:00	12,480	193.90	1.60	233.96	1.12	52.50	0.14	58.10	0.01	78.19	NA	
4/16/08 9:15	12,495	193.90	1.60	233.97	1.13	52.51	0.16	58.11	0.02	78.19	NA	
4/16/08 9:30	12,510	193.89	1.59	233.96	1.13	52.51	0.16	58.12	0.03	78.19	NA	
4/16/08 9:45	12,525	193.89	1.59	233.96	1.12	52.50	0.14	58.11	0.01	78.19	NA	
4/16/08 10:00	12,540	193.88	1.59	233.97	1.13	52.50	0.15	58.11	0.02	78.18	NA	
4/16/08 10:15	12,555	193.90	1.60	233.98	1.14	52.51	0.16	58.12	0.03	78.19	NA	
4/16/08 10:30	12,570	193.89	1.59	233.97	1.13	52.51	0.16	58.11	0.01	78.19	NA	
4/16/08 10:45	12,585	193.89	1.59	233.97	1.13	52.51	0.16	58.13	0.03	78.20	NA	
4/16/08 11:00	12,600	193.89	1.60	233.98	1.14	52.53	0.17	58.13	0.04	78.20	NA	
4/16/08 11:15	12,615	193.90	1.60	233.97	1.13	52.53	0.18	58.14	0.05	78.21	NA	
4/16/08 11:30	12,630	193.90	1.60	233.98	1.14	52.55	0.19	58.14	0.05	78.23	NA	
4/16/08 11:45	12,645	193.88	1.59	233.98	1.14	52.55	0.19	58.14	0.05	78.23	NA	
4/16/08 12:00	12,660	193.89	1.59	233.98	1.14	52.54	0.19	58.14	0.05	78.23	NA	
4/16/08 12:15	12,675	193.88	1.58	233.98	1.14	52.54	0.18	58.13	0.04	78.22	NA	
4/16/08 12:30	12,690	193.88	1.58	233.97	1.13	52.53	0.18	58.13	0.04	78.21	NA	
4/16/08 12:45	12,705	193.88	1.58	233.97	1.13	52.54	0.19	58.14	0.05	78.21	NA	
4/16/08 13:00	12,720	193.87	1.57	233.97	1.13	52.55	0.20	58.13	0.04	78.22	NA	
4/16/08 13:15	12,735	193.87	1.57	233.96	1.12	52.55	0.19	58.14	0.04	78.22	NA	
4/16/08 13:30	12,750	193.86	1.56	233.97	1.13	52.55	0.19	58.14	0.04	78.22	NA	
4/16/08 13:45	12,765	193.86	1.56	233.97	1.13	52.54	0.18	58.14	0.04	78.21	NA	
4/16/08 14:00	12,780	193.84	1.54	233.96	1.12	52.53	0.18	58.14	0.04	78.21	NA	
4/16/08 14:15	12,795	193.84	1.54	233.96	1.12	52.54	0.18	58.14	0.04	78.20	NA	
4/16/08 14:30	12,810	193.85	1.55	233.96	1.12	52.54	0.18	58.13	0.03	78.21	NA	
4/16/08 14:45	12,825	193.83	1.54	233.95	1.11	52.52	0.16	58.12	0.03	78.20	NA	
4/16/08 15:00	12,840	193.83	1.53	233.95	1.11	52.53	0.17	58.13	0.04	78.20	NA	
4/16/08 15:15	12,855	193.82	1.52	233.95	1.11	52.53	0.17	58.13	0.04	78.20	NA	
4/16/08 15:30	12,870	193.82	1.52	233.94	1.10	52.52	0.16	58.12	0.02	78.20	NA	
4/16/08 15:45	12,885	193.81	1.51	233.94	1.10	52.51	0.16	58.13	0.03	78.19	NA	
4/16/08 16:00	12,900	193.80	1.50	233.93	1.10	52.52	0.17	58.12	0.02	78.19	NA	
4/16/08 16:15	12,915	193.81	1.51	233.94	1.10	52.53	0.18	58.14	0.05	78.20	NA	
4/16/08 16:30	12,930	193.80	1.50	233.94	1.10	52.54	0.19	58.14	0.04	78.21	NA	
4/16/08 16:45	12,945	193.80	1.51	233.92	1.09	52.53	0.18	58.13	0.04	78.21	NA	
4/16/08 17:00	12,960	193.79	1.49	233.93	1.09	52.53	0.17	58.14	0.04	78.21	NA	
4/16/08 17:15	12,975	193.79	1.49	233.93	1.09	52.54	0.18	58.13	0.03	78.21	NA	
4/16/08 17:30	12,990	193.80	1.50	233.93	1.09	52.52	0.17	58.13	0.04	78.20	NA	
4/16/08 17:45	13,005	193.80	1.50	233.92	1.08	52.55	0.19	58.14	0.05	78.21	NA	
4/16/08 18:00	13,020	193.78	1.48	233.93	1.09	52.54	0.19	58.14	0.05	78.22	NA	
4/16/08 18:15	13,035	193.79	1.49	233.93	1.09	52.54	0.18	58.14	0.05	78.22	NA	
4/16/08 18:30	13,050	193.79	1.50	233.94	1.10	52.55	0.20	58.14	0.05	78.22	NA	
4/16/08 18:45	13,065	193.79	1.50	233.94	1.10	52.56	0.20	58.15	0.05	78.23	NA	
4/16/08 19:00	13,080	193.79	1.49	233.93	1.09	52.55	0.20	58.14	0.05	78.22	NA	
4/16/08 19:15	13,095	193.78	1.48	233.94	1.10	52.56	0.20	58.15	0.05	78.23	NA	
4/16/08 19:30	13,110	193.79	1.49	233.94	1.10	52.56	0.20	58.16	0.07	78.23	NA	
4/16/08 19:45	13,125	193.79	1.50	233.94	1.10	52.56	0.21	58.16	0.07	78.23	NA	
4/16/08 20:00	13,140	193.79	1.50	233.95	1.11	52.57	0.21	58.16	0.06	78.24	NA	
4/16/08 20:15	13,155	193.79	1.49	233.93	1.10	52.57	0.21	58.15	0.06	78.24	NA	
4/16/08 20:30	13,170	193.79	1.49	233.95	1.11	52.56	0.21	58.17	0.07	78.24	NA	
4/16/08 20:45	13,185	193.79	1.50	233.95	1.11	52.58	0.23	58.17	0.08	78.24	NA	

Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/16/08 21:00	13,200	193.78	1.49	233.95	1.11	52.59	0.23	58.18	0.09	78.25	NA	
4/16/08 21:15	13,215	193.80	1.50	233.96	1.12	52.60	0.24	58.18	0.08	78.26	NA	
4/16/08 21:30	13,230	193.78	1.48	233.95	1.11	52.59	0.24	58.18	0.08	78.26	NA	
4/16/08 21:45	13,245	193.78	1.48	233.96	1.12	52.59	0.24	58.17	0.07	78.25	NA	
4/16/08 22:00	13,260	193.79	1.49	233.95	1.12	52.59	0.23	58.17	0.08	78.26	NA	
4/16/08 22:15	13,275	193.79	1.49	233.95	1.11	52.59	0.23	58.17	0.07	78.25	NA	
4/16/08 22:30	13,290	193.78	1.48	233.94	1.10	52.58	0.22	58.16	0.07	78.25	NA	
4/16/08 22:45	13,305	193.78	1.48	233.95	1.11	52.59	0.23	58.18	0.08	78.25	NA	
4/16/08 23:00	13,320	193.77	1.47	233.95	1.12	52.60	0.24	58.17	0.08	78.25	NA	
4/16/08 23:15	13,335	193.77	1.48	233.96	1.12	52.60	0.24	58.18	0.08	78.25	NA	
4/16/08 23:30	13,350	193.78	1.48	233.96	1.12	52.60	0.24	58.17	0.08	78.25	NA	
4/16/08 23:45	13,365	193.77	1.47	233.95	1.11	52.58	0.23	58.18	0.08	78.25	NA	
4/17/08 0:00	13,380	193.76	1.47	233.96	1.12	52.59	0.24	58.18	0.08	78.25	NA	
4/17/08 0:15	13,395	193.77	1.47	233.95	1.11	52.60	0.24	58.17	0.08	78.25	NA	
4/17/08 0:30	13,410	193.76	1.46	233.95	1.11	52.59	0.24	58.18	0.08	78.25	NA	
4/17/08 0:45	13,425	193.76	1.46	233.95	1.11	52.58	0.22	58.18	0.08	78.25	NA	
4/17/08 1:00	13,440	193.76	1.46	233.94	1.10	52.58	0.22	58.17	0.07	78.24	NA	
4/17/08 1:15	13,455	193.74	1.45	233.94	1.10	52.57	0.22	58.16	0.07	78.24	NA	
4/17/08 1:30	13,470	193.75	1.45	233.93	1.09	52.56	0.20	58.16	0.06	78.23	NA	
4/17/08 1:45	13,485	193.73	1.43	233.93	1.09	52.56	0.20	58.15	0.05	78.22	NA	
4/17/08 2:00	13,500	193.73	1.43	233.92	1.08	52.55	0.19	58.15	0.05	78.22	NA	
4/17/08 2:15	13,515	193.73	1.43	233.92	1.08	52.55	0.19	58.14	0.04	78.21	NA	
4/17/08 2:30	13,530	193.71	1.42	233.92	1.08	52.53	0.17	58.14	0.05	78.20	NA	
4/17/08 2:45	13,545	193.71	1.41	233.91	1.07	52.52	0.16	58.13	0.04	78.20	NA	
4/17/08 3:00	13,560	193.71	1.41	233.91	1.07	52.52	0.17	58.13	0.03	78.19	NA	
4/17/08 3:15	13,575	193.71	1.41	233.90	1.06	52.51	0.16	58.13	0.04	78.20	NA	
4/17/08 3:30	13,590	193.71	1.41	233.90	1.07	52.51	0.16	58.13	0.04	78.20	NA	
4/17/08 3:45	13,605	193.70	1.41	233.90	1.06	52.52	0.16	58.14	0.04	78.20	NA	
4/17/08 4:00	13,620	193.70	1.40	233.90	1.06	52.52	0.17	58.14	0.05	78.21	NA	
4/17/08 4:15	13,635	193.70	1.40	233.90	1.06	52.52	0.17	58.15	0.05	78.21	NA	
4/17/08 4:30	13,650	193.69	1.40	233.90	1.06	52.53	0.17	58.14	0.05	78.21	NA	
4/17/08 4:45	13,665	193.69	1.39	233.90	1.06	52.54	0.18	58.15	0.06	78.22	NA	
4/17/08 5:00	13,680	193.70	1.40	233.90	1.06	52.53	0.17	58.15	0.06	78.23	NA	
4/17/08 5:15	13,695	193.68	1.39	233.90	1.06	52.53	0.17	58.15	0.05	78.23	NA	
4/17/08 5:30	13,710	193.69	1.39	233.89	1.05	52.54	0.18	58.14	0.05	78.22	NA	
4/17/08 5:45	13,725	193.69	1.39	233.90	1.06	52.54	0.18	58.15	0.05	78.23	NA	
4/17/08 6:00	13,740	193.69	1.39	233.90	1.06	52.53	0.18	58.15	0.06	78.23	NA	
4/17/08 6:15	13,755	193.68	1.38	233.90	1.06	52.54	0.18	58.16	0.06	78.24	NA	
4/17/08 6:30	13,770	193.68	1.38	233.90	1.06	52.54	0.19	58.16	0.06	78.24	NA	
4/17/08 6:45	13,785	193.69	1.39	233.90	1.06	52.54	0.18	58.17	0.07	78.24	NA	
4/17/08 7:00	13,800	193.69	1.39	233.90	1.06	52.54	0.19	58.17	0.07	78.24	NA	
4/17/08 7:15	13,815	193.69	1.39	233.89	1.05	52.56	0.20	58.16	0.07	78.25	NA	
4/17/08 7:30	13,830	193.69	1.39	233.90	1.06	52.55	0.20	58.17	0.08	78.25	NA	
4/17/08 7:45	13,845	193.68	1.38	233.90	1.07	52.54	0.19	58.16	0.07	78.25	NA	
4/17/08 8:00	13,860	193.68	1.38	233.90	1.07	52.54	0.19	58.17	0.07	78.24	NA	
4/17/08 8:15	13,875	193.68	1.38	233.91	1.07	52.55	0.19	58.16	0.07	78.25	NA	
4/17/08 8:30	13,890	193.68	1.38	233.89	1.06	52.54	0.18	58.16	0.07	78.24	NA	
4/17/08 8:45	13,905	193.68	1.38	233.91	1.07	52.54	0.19	58.16	0.07	78.24	NA	
4/17/08 9:00	13,920	193.68	1.38	233.90	1.06	52.53	0.18	58.16	0.06	78.24	NA	
4/17/08 9:15	13,935	193.68	1.38	233.90	1.06	52.53	0.18	58.16	0.06	78.25	NA	
4/17/08 9:30	13,950	193.68	1.38	233.90	1.06	52.54	0.18	58.16	0.06	78.24	NA	
4/17/08 9:45	13,965	193.68	1.38	233.90	1.06	52.53	0.17	58.15	0.06	78.24	NA	
4/17/08 10:00	13,980	193.67	1.37	233.90	1.06	52.53	0.18	58.16	0.06	78.24	NA	
4/17/08 10:15	13,995	193.67	1.37	233.90	1.07	52.53	0.17	58.16	0.06	78.24	NA	
4/17/08 10:30	14,010	193.66	1.37	233.90	1.06	52.54	0.18	58.17	0.07	78.24	NA	

Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/17/08 10:45	14,025	193.67	1.37	233.90	1.06	52.52	0.17	58.16	0.06	78.24	NA	
4/17/08 11:00	14,040	193.67	1.37	233.90	1.06	52.52	0.16	58.15	0.06	78.23	NA	
4/17/08 11:15	14,055	193.67	1.37	233.89	1.06	52.51	0.16	58.15	0.05	78.23	NA	
4/17/08 11:30	14,070	193.65	1.35	233.90	1.06	52.51	0.15	58.14	0.05	78.22	NA	
4/17/08 11:45	14,085	193.65	1.35	233.89	1.05	52.50	0.15	58.14	0.05	78.22	NA	
4/17/08 12:00	14,100	193.64	1.35	233.88	1.04	52.50	0.14	58.14	0.05	78.21	NA	
4/17/08 12:15	14,115	193.64	1.34	233.87	1.03	52.49	0.13	58.13	0.03	78.21	NA	
4/17/08 12:30	14,130	193.63	1.33	233.88	1.04	52.48	0.12	58.13	0.04	78.21	NA	
4/17/08 12:45	14,145	193.63	1.34	233.88	1.04	52.48	0.12	58.12	0.03	78.20	NA	
4/17/08 13:00	14,160	193.63	1.34	233.87	1.03	52.47	0.11	58.12	0.03	78.19	NA	
4/17/08 13:15	14,175	193.63	1.33	233.87	1.03	52.47	0.12	58.12	0.03	78.19	NA	
4/17/08 13:30	14,190	193.63	1.33	233.86	1.02	52.47	0.11	58.12	0.02	78.19	NA	
4/17/08 13:45	14,205	193.62	1.32	233.86	1.02	52.45	0.09	58.12	0.02	78.19	NA	
4/17/08 14:00	14,220	193.60	1.31	233.85	1.01	52.45	0.10	58.12	0.02	78.19	NA	
4/17/08 14:15	14,235	193.60	1.31	233.85	1.01	52.44	0.08	58.12	0.02	78.18	NA	
4/17/08 14:30	14,250	193.60	1.30	233.85	1.01	52.44	0.08	58.10	0.01	78.18	NA	
4/17/08 14:45	14,265	193.59	1.30	233.84	1.00	52.44	0.08	58.11	0.01	78.18	NA	
4/17/08 15:00	14,280	193.58	1.28	233.84	1.00	52.43	0.08	58.09	0.00	78.17	NA	
4/17/08 15:15	14,295	193.59	1.29	233.83	1.00	52.41	0.06	58.09	0.00	78.17	NA	
4/17/08 15:30	14,310	193.58	1.28	233.83	0.99	52.42	0.07	58.10	0.00	78.18	NA	
4/17/08 15:45	14,325	193.57	1.28	233.82	0.98	52.41	0.06	58.09	-0.01	78.17	NA	
4/17/08 16:00	14,340	193.56	1.26	233.82	0.98	52.40	0.04	58.10	0.00	78.17	NA	
4/17/08 16:15	14,355	193.57	1.27	233.81	0.97	52.40	0.04	58.08	-0.01	78.16	NA	
4/17/08 16:30	14,370	193.55	1.25	233.81	0.97	52.39	0.04	58.09	-0.01	78.16	NA	
4/17/08 16:45	14,385	193.55	1.25	233.81	0.97	52.39	0.04	58.08	-0.01	78.16	NA	
4/17/08 17:00	14,400	193.55	1.25	233.80	0.96	52.39	0.03	58.09	-0.01	78.16	NA	
4/17/08 17:15	14,415	193.55	1.25	233.80	0.96	52.38	0.02	58.08	-0.02	78.16	NA	
4/17/08 17:30	14,430	193.54	1.25	233.80	0.96	52.38	0.02	58.09	-0.01	78.16	NA	
4/17/08 17:45	14,445	193.54	1.24	233.80	0.96	52.37	0.02	58.08	-0.01	78.16	NA	
4/17/08 18:00	14,460	193.53	1.23	233.79	0.96	52.37	0.02	58.08	-0.02	78.16	NA	
4/17/08 18:15	14,475	193.53	1.23	233.80	0.96	52.37	0.01	58.08	-0.01	78.17	NA	
4/17/08 18:30	14,490	193.53	1.24	233.79	0.95	52.37	0.01	58.07	-0.02	78.16	NA	
4/17/08 18:45	14,505	193.53	1.23	233.79	0.95	52.37	0.01	58.07	-0.02	78.16	NA	
4/17/08 19:00	14,520	193.53	1.23	233.78	0.94	52.36	0.01	58.07	-0.02	78.16	NA	
4/17/08 19:15	14,535	193.53	1.23	233.78	0.94	52.37	0.01	58.07	-0.02	78.16	NA	
4/17/08 19:30	14,550	193.52	1.23	233.78	0.94	52.37	0.01	58.07	-0.02	78.16	NA	
4/17/08 19:45	14,565	193.52	1.22	233.78	0.94	52.37	0.01	58.07	-0.02	78.16	NA	
4/17/08 20:00	14,580	193.51	1.22	233.78	0.94	52.36	0.01	58.08	-0.02	78.16	NA	
4/17/08 20:15	14,595	193.51	1.22	233.78	0.94	52.36	0.00	58.08	-0.02	78.16	NA	
4/17/08 20:30	14,610	193.52	1.22	233.78	0.94	52.37	0.01	58.08	-0.01	78.17	NA	
4/17/08 20:45	14,625	193.51	1.21	233.78	0.94	52.37	0.01	58.08	-0.02	78.17	NA	
4/17/08 21:00	14,640	193.52	1.22	233.78	0.94	52.36	0.01	58.09	-0.01	78.18	NA	
4/17/08 21:15	14,655	193.51	1.21	233.78	0.94	52.38	0.02	58.09	-0.01	78.18	NA	
4/17/08 21:30	14,670	193.51	1.21	233.78	0.94	52.37	0.01	58.09	-0.01	78.18	NA	
4/17/08 21:45	14,685	193.52	1.22	233.77	0.93	52.36	0.01	58.08	-0.01	78.18	NA	
4/17/08 22:00	14,700	193.51	1.21	233.78	0.94	52.36	0.01	58.08	-0.02	78.17	NA	
4/17/08 22:15	14,715	193.52	1.22	233.78	0.94	52.37	0.01	58.08	-0.01	78.17	NA	
4/17/08 22:30	14,730	193.51	1.21	233.77	0.93	52.36	0.00	58.08	-0.02	78.17	NA	
4/17/08 22:45	14,745	193.50	1.20	233.78	0.94	52.36	0.00	58.08	-0.02	78.17	NA	
4/17/08 23:00	14,760	193.50	1.20	233.78	0.94	52.37	0.01	58.08	-0.02	78.17	NA	
4/17/08 23:15	14,775	193.51	1.21	233.78	0.94	52.36	0.00	58.08	-0.02	78.17	NA	
4/17/08 23:30	14,790	193.51	1.21	233.78	0.94	52.36	0.00	58.07	-0.02	78.17	NA	
4/17/08 23:45	14,805	193.50	1.20	233.77	0.93	52.36	0.00	58.07	-0.02	78.17	NA	
4/18/08 0:00	14,820	193.49	1.19	233.77	0.93	52.35	0.00	58.07	-0.02	78.17	NA	
4/18/08 0:15	14,835	193.50	1.20	233.77	0.93	52.36	0.01	58.08	-0.02	78.17	NA	

Appendix D

Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/18/08 0:30	14,850	193.50	1.20	233.77	0.93	52.36	0.00	58.08	-0.02	78.17	NA	
4/18/08 0:45	14,865	193.49	1.20	233.76	0.92	52.35	0.00	58.08	-0.02	78.17	NA	
4/18/08 1:00	14,880	193.49	1.19	233.76	0.92	52.35	-0.01	58.07	-0.02	78.17	NA	
4/18/08 1:15	14,895	193.48	1.18	233.76	0.92	52.35	-0.01	58.08	-0.02	78.17	NA	
4/18/08 1:30	14,910	193.49	1.19	233.76	0.92	52.36	0.00	58.08	-0.02	78.17	NA	
4/18/08 1:45	14,925	193.47	1.18	233.76	0.92	52.36	0.00	58.07	-0.02	78.17	NA	
4/18/08 2:00	14,940	193.48	1.18	233.75	0.91	52.34	-0.02	58.07	-0.02	78.16	NA	
4/18/08 2:15	14,955	193.47	1.17	233.75	0.91	52.34	-0.02	58.07	-0.02	78.16	NA	
4/18/08 2:30	14,970	193.47	1.17	233.75	0.91	52.35	0.00	58.07	-0.02	78.16	NA	
4/18/08 2:45	14,985	193.46	1.17	233.74	0.90	52.34	-0.02	58.07	-0.02	78.16	NA	
4/18/08 3:00	15,000	193.46	1.16	233.74	0.90	52.35	-0.01	58.07	-0.03	78.16	NA	
4/18/08 3:15	15,015	193.45	1.15	233.74	0.90	52.34	-0.01	58.07	-0.02	78.16	NA	
4/18/08 3:30	15,030	193.46	1.16	233.74	0.90	52.35	-0.01	58.07	-0.03	78.16	NA	
4/18/08 3:45	15,045	193.44	1.14	233.73	0.89	52.34	-0.01	58.07	-0.03	78.16	NA	
4/18/08 4:00	15,060	193.45	1.15	233.73	0.89	52.35	-0.01	58.07	-0.02	78.16	NA	
4/18/08 4:15	15,075	193.45	1.15	233.73	0.89	52.34	-0.01	58.07	-0.03	78.16	NA	
4/18/08 4:30	15,090	193.43	1.13	233.72	0.88	52.33	-0.02	58.07	-0.03	78.16	NA	
4/18/08 4:45	15,105	193.44	1.14	233.72	0.88	52.35	-0.01	58.07	-0.03	78.16	NA	
4/18/08 5:00	15,120	193.44	1.14	233.72	0.88	52.35	-0.01	58.07	-0.02	78.16	NA	
4/18/08 5:15	15,135	193.44	1.14	233.72	0.88	52.34	-0.01	58.08	-0.01	78.16	NA	
4/18/08 5:30	15,150	193.43	1.13	233.72	0.88	52.35	-0.01	58.08	-0.01	78.16	NA	
4/18/08 5:45	15,165	193.43	1.13	233.72	0.88	52.33	-0.02	58.07	-0.03	78.16	NA	
4/18/08 6:00	15,180	193.42	1.12	233.71	0.88	52.34	-0.01	58.07	-0.02	78.16	NA	
4/18/08 6:15	15,195	193.42	1.13	233.72	0.88	52.35	-0.01	58.08	-0.02	78.16	NA	
4/18/08 6:30	15,210	193.43	1.13	233.71	0.87	52.34	-0.02	58.07	-0.02	78.17	NA	
4/18/08 6:45	15,225	193.42	1.13	233.72	0.88	52.34	-0.01	58.07	-0.02	78.17	NA	
4/18/08 7:00	15,240	193.43	1.13	233.72	0.88	52.35	-0.01	58.08	-0.01	78.17	NA	
4/18/08 7:15	15,255	193.42	1.13	233.72	0.88	52.36	0.00	58.09	-0.01	78.17	NA	
4/18/08 7:30	15,270	193.43	1.13	233.72	0.88	52.36	0.01	58.08	-0.01	78.18	NA	
4/18/08 7:45	15,285	193.43	1.13	233.71	0.87	52.36	0.00	58.08	-0.02	78.18	NA	
4/18/08 8:00	15,300	193.43	1.13	233.72	0.88	52.36	0.00	58.08	-0.01	78.18	NA	
4/18/08 8:15	15,315	193.43	1.13	233.72	0.88	52.35	0.00	58.08	-0.02	78.18	NA	
4/18/08 8:30	15,330	193.43	1.13	233.72	0.88	52.36	0.01	58.08	-0.02	78.18	NA	
4/18/08 8:45	15,345	193.43	1.13	233.72	0.88	52.35	-0.01	58.08	-0.01	78.18	NA	
4/18/08 9:00	15,360	193.43	1.13	233.72	0.88	52.35	0.00	58.08	-0.02	78.17	NA	
4/18/08 9:15	15,375	193.43	1.13	233.72	0.88	52.34	-0.01	58.07	-0.02	78.17	NA	
4/18/08 9:30	15,390	193.43	1.13	233.72	0.88	52.34	-0.01	58.06	-0.03	78.16	NA	
4/18/08 9:45	15,405	193.42	1.12	233.72	0.88	52.34	-0.01	58.06	-0.04	78.16	NA	
4/18/08 10:00	15,420	193.42	1.12	233.71	0.87	52.34	-0.02	58.06	-0.03	78.16	NA	
4/18/08 10:15	15,435	193.42	1.13	233.71	0.87	52.33	-0.02	58.06	-0.03	78.15	NA	
4/18/08 10:30	15,450	193.42	1.12	233.71	0.87	52.33	-0.02	58.06	-0.04	78.15	NA	
4/18/08 10:45	15,465	193.42	1.12	233.71	0.87	52.34	-0.02	58.07	-0.02	78.15	NA	
4/18/08 11:00	15,480	193.42	1.12	233.71	0.87	52.32	-0.03	58.06	-0.04	78.15	NA	
4/18/08 11:15	15,495	193.41	1.11	233.71	0.87	52.33	-0.02	58.07	-0.02	78.15	NA	
4/18/08 11:30	15,510	193.40	1.10	233.71	0.87	52.31	-0.04	58.06	-0.03	78.15	NA	
4/18/08 11:45	15,525	193.40	1.10	233.70	0.86	52.31	-0.04	58.06	-0.04	78.15	NA	
4/18/08 12:00	15,540	193.41	1.11	233.70	0.86	52.31	-0.05	58.06	-0.04	78.14	NA	
4/18/08 12:15	15,555	193.41	1.11	233.70	0.86	52.31	-0.05	58.05	-0.04	78.14	NA	
4/18/08 12:30	15,570	193.40	1.10	233.69	0.85	52.31	-0.04	58.05	-0.05	78.14	NA	
4/18/08 12:45	15,585	193.39	1.10	233.69	0.85	52.30	-0.06	58.04	-0.05	78.14	NA	
4/18/08 13:00	15,600	193.39	1.09	233.69	0.85	52.30	-0.06	58.05	-0.05	78.13	NA	
4/18/08 13:15	15,615	193.39	1.09	233.69	0.85	52.30	-0.05	58.05	-0.05	78.14	NA	
4/18/08 13:30	15,630	193.39	1.09	233.67	0.83	52.29	-0.07	58.04	-0.05	78.14	NA	
4/18/08 13:45	15,645	193.38	1.08	233.67	0.83	52.29	-0.06	58.04	-0.06	78.13	NA	
4/18/08 14:00	15,660	193.37	1.07	233.67	0.83	52.29	-0.07	58.03	-0.06	78.12	NA	

Appendix D
Three Crow Level TROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/18/08 14:15	15,675	193.36	1.07	233.66	0.82	52.29	-0.06	58.04	-0.06	78.12	NA	
4/18/08 14:30	15,690	193.37	1.07	233.66	0.82	52.29	-0.07	58.03	-0.06	78.12	NA	
4/18/08 14:45	15,705	193.36	1.06	233.65	0.81	52.28	-0.08	58.03	-0.07	78.12	NA	
4/18/08 15:00	15,720	193.36	1.06	233.65	0.81	52.27	-0.08	58.03	-0.07	78.12	NA	
4/18/08 15:15	15,735	193.35	1.05	233.63	0.79	52.27	-0.09	58.02	-0.07	78.11	NA	
4/18/08 15:30	15,750	193.35	1.05	233.63	0.79	52.27	-0.09	58.02	-0.07	78.11	NA	
4/18/08 15:45	15,765	193.34	1.04	233.62	0.78	52.27	-0.09	58.02	-0.07	78.11	NA	
4/18/08 16:00	15,780	193.33	1.04	233.62	0.78	52.26	-0.10	58.02	-0.07	78.11	NA	
4/18/08 16:15	15,795	193.33	1.03	233.61	0.77	52.25	-0.10	58.01	-0.08	78.10	NA	
4/18/08 16:30	15,810	193.33	1.03	233.61	0.77	52.25	-0.11	58.01	-0.08	78.10	NA	
4/18/08 16:45	15,825	193.32	1.02	233.61	0.77	52.25	-0.11	58.02	-0.08	78.10	NA	
4/18/08 17:00	15,840	193.32	1.02	233.60	0.76	52.25	-0.11	58.01	-0.08	78.10	NA	
4/18/08 17:15	15,855	193.32	1.02	233.60	0.76	52.24	-0.12	58.02	-0.07	78.10	NA	
4/18/08 17:30	15,870	193.31	1.01	233.59	0.75	52.24	-0.11	58.01	-0.08	78.10	NA	
4/18/08 17:45	15,885	193.31	1.01	233.59	0.75	52.24	-0.11	58.02	-0.08	78.10	NA	
4/18/08 18:00	15,900	193.30	1.00	233.59	0.75	52.23	-0.13	58.00	-0.09	78.10	NA	
4/18/08 18:15	15,915	193.30	1.00	233.58	0.74	52.24	-0.12	58.01	-0.09	78.10	NA	
4/18/08 18:30	15,930	193.30	1.00	233.58	0.74	52.23	-0.13	58.00	-0.10	78.10	NA	
4/18/08 18:45	15,945	193.30	1.00	233.58	0.74	52.23	-0.12	58.00	-0.10	78.10	NA	
4/18/08 19:00	15,960	193.28	0.99	233.58	0.74	52.24	-0.12	58.01	-0.09	78.10	NA	
4/18/08 19:15	15,975	193.30	1.00	233.57	0.74	52.23	-0.13	58.01	-0.09	78.10	NA	
4/18/08 19:30	15,990	193.29	0.99	233.56	0.72	52.24	-0.12	58.01	-0.09	78.10	NA	
4/18/08 19:45	16,005	193.29	0.99	233.57	0.73	52.23	-0.13	58.01	-0.08	78.10	NA	
4/18/08 20:00	16,020	193.29	1.00	233.57	0.73	52.24	-0.11	58.02	-0.08	78.11	NA	
4/18/08 20:15	16,035	193.29	0.99	233.58	0.74	52.25	-0.10	58.02	-0.07	78.11	NA	
4/18/08 20:30	16,050	193.30	1.00	233.57	0.74	52.25	-0.10	58.02	-0.07	78.12	NA	
4/18/08 20:45	16,065	193.30	1.00	233.58	0.74	52.25	-0.10	58.02	-0.07	78.12	NA	
4/18/08 21:00	16,080	193.29	0.99	233.58	0.74	52.25	-0.10	58.02	-0.07	78.13	NA	
4/18/08 21:15	16,095	193.30	1.00	233.58	0.74	52.27	-0.08	58.03	-0.06	78.13	NA	
4/18/08 21:30	16,110	193.29	1.00	233.58	0.74	52.28	-0.08	58.03	-0.06	78.13	NA	
4/18/08 21:45	16,125	193.30	1.00	233.58	0.74	52.27	-0.08	58.03	-0.06	78.13	NA	
4/18/08 22:00	16,140	193.30	1.00	233.58	0.74	52.27	-0.08	58.03	-0.06	78.13	NA	
4/18/08 22:15	16,155	193.30	1.00	233.58	0.74	52.27	-0.09	58.04	-0.06	78.13	NA	
4/18/08 22:30	16,170	193.30	1.00	233.57	0.73	52.27	-0.08	58.03	-0.06	78.13	NA	
4/18/08 22:45	16,185	193.29	1.00	233.58	0.74	52.27	-0.08	58.04	-0.05	78.13	NA	
4/18/08 23:00	16,200	193.30	1.00	233.58	0.74	52.28	-0.08	58.04	-0.06	78.14	NA	
4/18/08 23:15	16,215	193.29	0.99	233.58	0.74	52.27	-0.08	58.04	-0.05	78.14	NA	
4/18/08 23:30	16,230	193.30	1.00	233.59	0.75	52.28	-0.07	58.04	-0.05	78.14	NA	
4/18/08 23:45	16,245	193.29	0.99	233.57	0.73	52.28	-0.08	58.03	-0.06	78.13	NA	
4/19/08 0:00	16,260	193.29	0.99	233.58	0.74	52.27	-0.09	58.03	-0.06	78.13	NA	
4/19/08 0:15	16,275	193.28	0.98	233.58	0.74	52.28	-0.07	58.04	-0.06	78.13	NA	
4/19/08 0:30	16,290	193.29	0.99	233.58	0.74	52.28	-0.07	58.03	-0.06	78.13	NA	
4/19/08 0:45	16,305	193.29	0.99	233.57	0.74	52.29	-0.07	58.04	-0.06	78.14	NA	
4/19/08 1:00	16,320	193.28	0.99	233.57	0.73	52.28	-0.07	58.04	-0.06	78.13	NA	
4/19/08 1:15	16,335	193.28	0.99	233.57	0.73	52.28	-0.07	58.03	-0.06	78.13	NA	
4/19/08 1:30	16,350	193.27	0.97	233.57	0.73	52.28	-0.07	58.03	-0.06	78.13	NA	
4/19/08 1:45	16,365	193.28	0.98	233.56	0.72	52.27	-0.08	58.03	-0.07	78.12	NA	
4/19/08 2:00	16,380	193.28	0.98	233.57	0.73	52.28	-0.07	58.04	-0.05	78.14	NA	
4/19/08 2:15	16,395	193.28	0.98	233.56	0.72	52.30	-0.06	58.04	-0.05	78.14	NA	
4/19/08 2:30	16,410	193.28	0.98	233.56	0.72	52.29	-0.07	58.03	-0.06	78.13	NA	
4/19/08 2:45	16,425	193.26	0.96	233.56	0.72	52.29	-0.06	58.03	-0.06	78.13	NA	
4/19/08 3:00	16,440	193.26	0.96	233.56	0.72	52.29	-0.06	58.03	-0.06	78.13	NA	
4/19/08 3:15	16,455	193.27	0.97	233.55	0.72	52.29	-0.06	58.03	-0.06	78.13	NA	
4/19/08 3:30	16,470	193.26	0.97	233.56	0.72	52.30	-0.05	58.04	-0.05	78.13	NA	
4/19/08 3:45	16,485	193.26	0.96	233.55	0.72	52.29	-0.06	58.04	-0.05	78.14	NA	

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBBCOW-1 DTW (ft)	3CUBBCOW-1 Drawdown	3CUBBCOW-2 DTW (ft)	3CUBBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/19/08 4:00	16,500	193.25	0.95	233.56	0.72	52.31	-0.05	58.04	-0.05	78.14	NA	
4/19/08 4:15	16,515	193.26	0.96	233.55	0.71	52.31	-0.04	58.04	-0.05	78.14	NA	
4/19/08 4:30	16,530	193.25	0.95	233.55	0.71	52.30	-0.05	58.04	-0.05	78.14	NA	
4/19/08 4:45	16,545	193.26	0.96	233.55	0.71	52.31	-0.05	58.05	-0.04	78.14	NA	
4/19/08 5:00	16,560	193.26	0.96	233.54	0.70	52.31	-0.04	58.04	-0.06	78.14	NA	
4/19/08 5:15	16,575	193.25	0.95	233.55	0.71	52.31	-0.04	58.04	-0.05	78.14	NA	
4/19/08 5:30	16,590	193.25	0.95	233.54	0.70	52.31	-0.05	58.05	-0.05	78.14	NA	
4/19/08 5:45	16,605	193.24	0.94	233.54	0.70	52.32	-0.04	58.05	-0.05	78.14	NA	
4/19/08 6:00	16,620	193.26	0.96	233.54	0.71	52.33	-0.03	58.05	-0.04	78.14	NA	
4/19/08 6:15	16,635	193.24	0.94	233.55	0.71	52.33	-0.03	58.05	-0.04	78.15	NA	
4/19/08 6:30	16,650	193.25	0.95	233.55	0.71	52.33	-0.03	58.05	-0.04	78.15	NA	
4/19/08 6:45	16,665	193.26	0.96	233.55	0.71	52.33	-0.02	58.06	-0.04	78.15	NA	
4/19/08 7:00	16,680	193.25	0.95	233.55	0.71	52.33	-0.02	58.06	-0.04	78.16	NA	
4/19/08 7:15	16,695	193.26	0.96	233.55	0.71	52.34	-0.02	58.05	-0.04	78.15	NA	
4/19/08 7:30	16,710	193.24	0.94	233.55	0.71	52.32	-0.03	58.05	-0.04	78.15	NA	
4/19/08 7:45	16,725	193.26	0.96	233.55	0.71	52.33	-0.03	58.06	-0.04	78.15	NA	
4/19/08 8:00	16,740	193.26	0.96	233.55	0.71	52.33	-0.03	58.05	-0.04	78.15	NA	
4/19/08 8:15	16,755	193.25	0.95	233.54	0.70	52.32	-0.03	58.06	-0.04	78.15	NA	
4/19/08 8:30	16,770	193.25	0.95	233.55	0.71	52.33	-0.02	58.05	-0.04	78.15	NA	
4/19/08 8:45	16,785	193.25	0.95	233.55	0.71	52.33	-0.03	58.05	-0.04	78.15	NA	
4/19/08 9:00	16,800	193.25	0.95	233.55	0.71	52.33	-0.03	58.05	-0.04	78.14	NA	
4/19/08 9:15	16,815	193.25	0.95	233.55	0.71	52.33	-0.03	58.04	-0.05	78.14	NA	
4/19/08 9:30	16,830	193.25	0.95	233.55	0.71	52.32	-0.03	58.05	-0.05	78.14	NA	
4/19/08 9:45	16,845	193.25	0.96	233.55	0.71	52.33	-0.03	58.05	-0.05	78.15	NA	
4/19/08 10:00	16,860	193.25	0.95	233.55	0.71	52.32	-0.04	58.05	-0.05	78.14	NA	
4/19/08 10:15	16,875	193.24	0.95	233.54	0.70	52.32	-0.04	58.05	-0.05	78.14	NA	
4/19/08 10:30	16,890	193.25	0.95	233.55	0.71	52.32	-0.03	58.05	-0.05	78.14	NA	
4/19/08 10:45	16,905	193.24	0.94	233.54	0.71	52.32	-0.04	58.04	-0.05	78.14	NA	
4/19/08 11:00	16,920	193.25	0.95	233.54	0.71	52.32	-0.03	58.05	-0.05	78.14	NA	
4/19/08 11:15	16,935	193.24	0.94	233.54	0.70	52.31	-0.04	58.04	-0.06	78.13	NA	
4/19/08 11:30	16,950	193.25	0.95	233.54	0.70	52.31	-0.05	58.03	-0.06	78.13	NA	
4/19/08 11:45	16,965	193.24	0.95	233.53	0.69	52.29	-0.06	58.03	-0.06	78.12	NA	
4/19/08 12:00	16,980	193.24	0.95	233.53	0.69	52.29	-0.07	58.02	-0.07	78.12	NA	
4/19/08 12:15	16,995	193.24	0.94	233.53	0.69	52.29	-0.07	58.02	-0.08	78.11	NA	
4/19/08 12:30	17,010	193.24	0.94	233.52	0.68	52.28	-0.08	58.02	-0.07	78.11	NA	
4/19/08 12:45	17,025	193.23	0.94	233.51	0.67	52.28	-0.08	58.01	-0.08	78.10	NA	
4/19/08 13:00	17,040	193.23	0.93	233.51	0.67	52.26	-0.09	58.01	-0.08	78.10	NA	
4/19/08 13:15	17,055	193.22	0.92	233.50	0.66	52.26	-0.09	58.01	-0.08	78.09	NA	
4/19/08 13:30	17,070	193.22	0.92	233.50	0.66	52.26	-0.10	58.00	-0.09	78.09	NA	
4/19/08 13:45	17,085	193.21	0.91	233.49	0.65	52.25	-0.11	58.00	-0.10	78.09	NA	
4/19/08 14:00	17,100	193.20	0.90	233.48	0.64	52.24	-0.12	57.99	-0.10	78.08	NA	
4/19/08 14:15	17,115	193.21	0.91	233.47	0.63	52.25	-0.11	57.99	-0.11	78.07	NA	
4/19/08 14:30	17,130	193.19	0.89	233.46	0.62	52.22	-0.14	57.98	-0.11	78.07	NA	
4/19/08 14:45	17,145	193.19	0.89	233.45	0.61	52.23	-0.13	57.98	-0.11	78.06	NA	
4/19/08 15:00	17,160	193.19	0.89	233.44	0.60	52.21	-0.14	57.97	-0.12	78.06	NA	
4/19/08 15:15	17,175	193.17	0.88	233.43	0.59	52.21	-0.14	57.97	-0.13	78.05	NA	
4/19/08 15:30	17,190	193.17	0.88	233.43	0.59	52.20	-0.15	57.96	-0.14	78.05	NA	
4/19/08 15:45	17,205	193.17	0.87	233.42	0.58	52.21	-0.15	57.96	-0.14	78.05	NA	
4/19/08 16:00	17,220	193.17	0.87	233.40	0.56	52.19	-0.16	57.96	-0.14	78.04	NA	
4/19/08 16:15	17,235	193.15	0.85	233.40	0.56	52.19	-0.17	57.96	-0.13	78.04	NA	
4/19/08 16:30	17,250	193.16	0.86	233.39	0.55	52.19	-0.16	57.96	-0.13	78.04	NA	
4/19/08 16:45	17,265	193.15	0.85	233.39	0.55	52.19	-0.16	57.95	-0.15	78.04	NA	
4/19/08 17:00	17,280	193.14	0.84	233.37	0.53	52.18	-0.18	57.96	-0.14	78.04	NA	
4/19/08 17:15	17,295	193.14	0.85	233.37	0.53	52.18	-0.18	57.96	-0.14	78.04	NA	
4/19/08 17:30	17,310	193.14	0.84	233.36	0.52	52.19	-0.17	57.96	-0.14	78.04	NA	

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/19/08 17:45	17,325	193.14	0.84	233.35	0.51	52.17	-0.18	57.96	-0.14	78.04	NA	
4/19/08 18:00	17,340	193.12	0.82	233.34	0.50	52.18	-0.18	57.95	-0.14	78.04	NA	
4/19/08 18:15	17,355	193.13	0.83	233.34	0.50	52.17	-0.18	57.95	-0.14	78.04	NA	
4/19/08 18:30	17,370	193.12	0.82	233.33	0.50	52.17	-0.19	57.95	-0.15	78.04	NA	
4/19/08 18:45	17,385	193.12	0.82	233.34	0.50	52.18	-0.18	57.95	-0.15	78.04	NA	
4/19/08 19:00	17,400	193.13	0.83	233.33	0.49	52.18	-0.18	57.95	-0.14	78.04	NA	
4/19/08 19:15	17,415	193.12	0.82	233.34	0.50	52.19	-0.17	57.96	-0.13	78.05	NA	
4/19/08 19:30	17,430	193.12	0.82	233.34	0.50	52.19	-0.16	57.97	-0.13	78.06	NA	
4/19/08 19:45	17,445	193.13	0.83	233.33	0.49	52.19	-0.16	57.97	-0.13	78.07	NA	
4/19/08 20:00	17,460	193.13	0.83	233.33	0.49	52.19	-0.17	57.97	-0.12	78.07	NA	
4/19/08 20:15	17,475	193.13	0.83	233.33	0.50	52.21	-0.14	57.98	-0.12	78.08	NA	
4/19/08 20:30	17,490	193.13	0.83	233.32	0.48	52.21	-0.15	57.98	-0.11	78.08	NA	
4/19/08 20:45	17,505	193.13	0.83	233.33	0.49	52.23	-0.13	57.98	-0.11	78.08	NA	
4/19/08 21:00	17,520	193.13	0.83	233.34	0.50	52.23	-0.13	57.99	-0.11	78.09	NA	
4/19/08 21:15	17,535	193.12	0.82	233.33	0.49	52.22	-0.14	57.98	-0.12	78.08	NA	
4/19/08 21:30	17,550	193.13	0.83	233.32	0.48	52.22	-0.14	57.98	-0.12	78.08	NA	
4/19/08 21:45	17,565	193.12	0.82	233.31	0.47	52.20	-0.15	57.97	-0.13	78.08	NA	
4/19/08 22:00	17,580	193.12	0.83	233.33	0.49	52.20	-0.15	57.98	-0.12	78.08	NA	
4/19/08 22:15	17,595	193.13	0.83	233.33	0.49	52.21	-0.14	57.98	-0.12	78.08	NA	
4/19/08 22:30	17,610	193.13	0.83	233.33	0.49	52.22	-0.14	57.98	-0.12	78.08	NA	
4/19/08 22:45	17,625	193.12	0.82	233.31	0.47	52.21	-0.14	57.97	-0.13	78.07	NA	
4/19/08 23:00	17,640	193.11	0.82	233.32	0.49	52.20	-0.16	57.96	-0.13	78.06	NA	
4/19/08 23:15	17,655	193.12	0.82	233.32	0.48	52.19	-0.16	57.94	-0.15	78.06	NA	
4/19/08 23:30	17,670	193.11	0.81	233.32	0.48	52.19	-0.17	57.95	-0.14	78.05	NA	
4/19/08 23:45	17,685	193.11	0.81	233.31	0.47	52.19	-0.17	57.95	-0.14	78.04	NA	
4/20/08 0:00	17,700	193.11	0.81	233.31	0.47	52.18	-0.17	57.94	-0.15	78.04	NA	
4/20/08 0:15	17,715	193.11	0.81	233.31	0.47	52.17	-0.19	57.95	-0.14	78.04	NA	
4/20/08 0:30	17,730	193.11	0.81	233.31	0.47	52.18	-0.18	57.96	-0.14	78.04	NA	
4/20/08 0:45	17,745	193.11	0.81	233.30	0.46	52.18	-0.17	57.96	-0.14	78.05	NA	
4/20/08 1:00	17,760	193.11	0.81	233.30	0.47	52.18	-0.17	57.96	-0.14	78.05	NA	
4/20/08 1:15	17,775	193.11	0.81	233.30	0.46	52.19	-0.17	57.96	-0.14	78.05	NA	
4/20/08 1:30	17,790	193.10	0.80	233.29	0.46	52.18	-0.18	57.95	-0.15	78.05	NA	
4/20/08 1:45	17,805	193.09	0.79	233.30	0.46	52.17	-0.19	57.95	-0.15	78.05	NA	
4/20/08 2:00	17,820	193.08	0.79	233.30	0.46	52.17	-0.19	57.94	-0.16	78.04	NA	
4/20/08 2:15	17,835	193.09	0.79	233.29	0.45	52.16	-0.20	57.93	-0.16	78.03	NA	
4/20/08 2:30	17,850	193.08	0.78	233.28	0.44	52.15	-0.20	57.93	-0.17	78.02	NA	
4/20/08 2:45	17,865	193.07	0.78	233.28	0.44	52.14	-0.21	57.92	-0.17	78.02	NA	
4/20/08 3:00	17,880	193.08	0.78	233.27	0.43	52.15	-0.21	57.92	-0.17	78.02	NA	
4/20/08 3:15	17,895	193.06	0.76	233.27	0.43	52.13	-0.22	57.92	-0.17	78.01	NA	
4/20/08 3:30	17,910	193.07	0.77	233.27	0.43	52.13	-0.22	57.92	-0.18	78.00	NA	
4/20/08 3:45	17,925	193.06	0.76	233.26	0.42	52.15	-0.21	57.92	-0.17	78.01	NA	
4/20/08 4:00	17,940	193.06	0.76	233.26	0.42	52.14	-0.21	57.92	-0.17	78.01	NA	
4/20/08 4:15	17,955	193.06	0.76	233.26	0.42	52.14	-0.22	57.92	-0.17	78.01	NA	
4/20/08 4:30	17,970	193.06	0.76	233.25	0.41	52.16	-0.20	57.93	-0.16	78.01	NA	
4/20/08 4:45	17,985	193.06	0.76	233.25	0.41	52.15	-0.20	57.92	-0.17	78.01	NA	
4/20/08 5:00	18,000	193.06	0.76	233.25	0.41	52.16	-0.20	57.93	-0.16	78.02	NA	
4/20/08 5:15	18,015	193.05	0.75	233.25	0.41	52.16	-0.20	57.94	-0.16	78.02	NA	
4/20/08 5:30	18,030	193.04	0.75	233.24	0.41	52.15	-0.20	57.92	-0.17	78.02	NA	
4/20/08 5:45	18,045	193.06	0.76	233.25	0.41	52.16	-0.20	57.93	-0.17	78.02	NA	
4/20/08 6:00	18,060	193.05	0.75	233.24	0.40	52.16	-0.20	57.92	-0.17	78.02	NA	
4/20/08 6:15	18,075	193.04	0.75	233.24	0.40	52.15	-0.20	57.92	-0.18	78.02	NA	
4/20/08 6:30	18,090	193.05	0.75	233.24	0.40	52.15	-0.20	57.92	-0.17	78.02	NA	
4/20/08 6:45	18,105	193.04	0.74	233.23	0.39	52.15	-0.20	57.92	-0.17	78.03	NA	
4/20/08 7:00	18,120	193.05	0.75	233.24	0.40	52.17	-0.19	57.92	-0.17	78.03	NA	
4/20/08 7:15	18,135	193.05	0.75	233.24	0.40	52.16	-0.19	57.93	-0.16	78.03	NA	

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/20/08 7:30	18,150	193.05	0.75	233.24	0.40	52.17	-0.18	57.92	-0.17	78.03	NA	
4/20/08 7:45	18,165	193.05	0.75	233.24	0.40	52.16	-0.20	57.93	-0.16	78.03	NA	
4/20/08 8:00	18,180	193.04	0.74	233.24	0.40	52.17	-0.19	57.94	-0.16	78.03	NA	
4/20/08 8:15	18,195	193.04	0.74	233.25	0.41	52.18	-0.18	57.95	-0.15	78.04	NA	
4/20/08 8:30	18,210	193.04	0.75	233.25	0.41	52.17	-0.19	57.95	-0.15	78.05	NA	
4/20/08 8:45	18,225	193.04	0.75	233.25	0.41	52.18	-0.18	57.94	-0.15	78.05	NA	
4/20/08 9:00	18,240	193.05	0.75	233.26	0.42	52.17	-0.19	57.95	-0.15	78.05	NA	
4/20/08 9:15	18,255	193.05	0.75	233.24	0.40	52.16	-0.19	57.93	-0.17	78.04	NA	
4/20/08 9:30	18,270	193.04	0.74	233.25	0.41	52.17	-0.19	57.93	-0.16	78.04	NA	
4/20/08 9:45	18,285	193.04	0.74	233.23	0.40	52.17	-0.18	57.93	-0.16	78.04	NA	
4/20/08 10:00	18,300	193.05	0.75	233.25	0.41	52.17	-0.18	57.93	-0.16	78.04	NA	
4/20/08 10:15	18,315	193.05	0.75	233.25	0.41	52.17	-0.18	57.94	-0.15	78.04	NA	
4/20/08 10:30	18,330	193.05	0.75	233.24	0.41	52.16	-0.19	57.94	-0.16	78.04	NA	
4/20/08 10:45	18,345	193.05	0.75	233.24	0.40	52.16	-0.19	57.93	-0.16	78.04	NA	
4/20/08 11:00	18,360	193.05	0.75	233.25	0.41	52.16	-0.19	57.92	-0.17	78.04	NA	
4/20/08 11:15	18,375	193.05	0.75	233.24	0.40	52.18	-0.18	57.92	-0.17	78.04	NA	
4/20/08 11:30	18,390	193.05	0.75	233.24	0.40	52.16	-0.20	57.93	-0.16	78.03	NA	
4/20/08 11:45	18,405	193.05	0.75	233.24	0.40	52.16	-0.19	57.92	-0.17	78.03	NA	
4/20/08 12:00	18,420	193.04	0.74	233.24	0.40	52.17	-0.18	57.93	-0.17	78.03	NA	
4/20/08 12:15	18,435	193.04	0.74	233.23	0.39	52.17	-0.18	57.93	-0.17	78.03	NA	
4/20/08 12:30	18,450	193.04	0.74	233.24	0.40	52.16	-0.19	57.93	-0.16	78.04	NA	
4/20/08 12:45	18,465	193.04	0.74	233.23	0.39	52.17	-0.18	57.93	-0.17	78.03	NA	
4/20/08 13:00	18,480	193.05	0.75	233.23	0.39	52.18	-0.18	57.93	-0.16	78.03	NA	
4/20/08 13:15	18,495	193.04	0.75	233.22	0.38	52.17	-0.19	57.93	-0.16	78.04	NA	
4/20/08 13:30	18,510	193.04	0.74	233.22	0.38	52.17	-0.18	57.93	-0.17	78.03	NA	
4/20/08 13:45	18,525	193.04	0.74	233.22	0.38	52.17	-0.18	57.93	-0.16	78.04	NA	
4/20/08 14:00	18,540	193.03	0.73	233.20	0.37	52.16	-0.20	57.92	-0.17	78.03	NA	
4/20/08 14:15	18,555	193.03	0.73	233.19	0.35	52.15	-0.20	57.92	-0.17	78.02	NA	
4/20/08 14:30	18,570	193.03	0.73	233.20	0.36	52.16	-0.19	57.91	-0.18	78.02	NA	
4/20/08 14:45	18,585	193.03	0.73	233.19	0.35	52.16	-0.20	57.92	-0.18	78.02	NA	
4/20/08 15:00	18,600	193.02	0.72	233.18	0.34	52.16	-0.20	57.91	-0.18	78.02	NA	
4/20/08 15:15	18,615	193.02	0.72	233.17	0.33	52.17	-0.19	57.92	-0.17	78.02	NA	
4/20/08 15:30	18,630	193.01	0.72	233.16	0.32	52.16	-0.19	57.92	-0.17	78.02	NA	
4/20/08 15:45	18,645	193.00	0.70	233.16	0.32	52.17	-0.19	57.93	-0.17	78.02	NA	
4/20/08 16:00	18,660	193.01	0.71	233.15	0.31	52.17	-0.18	57.92	-0.17	78.03	NA	
4/20/08 16:15	18,675	193.00	0.70	233.15	0.31	52.17	-0.19	57.93	-0.17	78.03	NA	
4/20/08 16:30	18,690	193.01	0.71	233.14	0.30	52.17	-0.18	57.92	-0.17	78.02	NA	
4/20/08 16:45	18,705	193.01	0.71	233.13	0.29	52.18	-0.18	57.92	-0.17	78.02	NA	
4/20/08 17:00	18,720	193.00	0.71	233.12	0.28	52.18	-0.18	57.92	-0.17	78.03	NA	
4/20/08 17:15	18,735	193.00	0.70	233.11	0.27	52.19	-0.17	57.93	-0.17	78.03	NA	
4/20/08 17:30	18,750	193.00	0.70	233.12	0.28	52.22	-0.14	57.97	-0.12	78.05	NA	
4/20/08 17:45	18,765	193.02	0.72	233.14	0.30	52.26	-0.09	58.00	-0.09	78.09	NA	
4/20/08 18:00	18,780	193.03	0.73	233.13	0.29	52.28	-0.07	58.01	-0.09	78.11	NA	
4/20/08 18:15	18,795	193.02	0.72	233.14	0.30	52.29	-0.06	58.01	-0.08	78.13	NA	
4/20/08 18:30	18,810	193.03	0.73	233.14	0.30	52.30	-0.05	58.02	-0.07	78.14	NA	
4/20/08 18:45	18,825	193.03	0.73	233.14	0.30	52.33	-0.03	58.02	-0.07	78.14	NA	
4/20/08 19:00	18,840	193.03	0.73	233.14	0.30	52.34	-0.02	58.04	-0.05	78.15	NA	
4/20/08 19:15	18,855	193.04	0.74	233.14	0.31	52.35	0.00	58.04	-0.05	78.16	NA	
4/20/08 19:30	18,870	193.04	0.74	233.15	0.31	52.35	0.00	58.04	-0.05	78.16	NA	
4/20/08 19:45	18,885	193.03	0.73	233.15	0.31	52.37	0.01	58.05	-0.04	78.16	NA	
4/20/08 20:00	18,900	193.05	0.75	233.16	0.32	52.41	0.05	58.07	-0.02	78.18	NA	
4/20/08 20:15	18,915	193.05	0.75	233.16	0.32	52.42	0.06	58.09	-0.01	78.19	NA	
4/20/08 20:30	18,930	193.06	0.77	233.17	0.33	52.45	0.10	58.09	-0.01	78.21	NA	
4/20/08 20:45	18,945	193.06	0.76	233.18	0.34	52.47	0.11	58.12	0.02	78.23	NA	
4/20/08 21:00	18,960	193.07	0.78	233.18	0.34	52.47	0.12	58.11	0.01	78.22	NA	

Appendix D
Three Crow LevelTROLL Depth to Water data

Date & Time	DT [minutes]	3CUBCOW-1 DTW (ft)	3CUBCOW-1 Drawdown	3CUBCOW-2 DTW (ft)	3CUBCOW-2 Drawdown	3CBOW-1 DTW (ft)	3CBOW-1 Drawdown	3CBOW-2 DTW (ft)	3CBOW-2 Drawdown	3CBOW-3 DTW (ft)	3CBOW-3 Drawdown	Comments
4/20/08 21:15	18,975	193.07	0.78	233.19	0.35	52.48	0.12	58.10	0.01	78.23	NA	
4/20/08 21:30	18,990	193.07	0.78	233.18	0.34	52.47	0.12	58.10	0.01	78.22	NA	
4/20/08 21:45	19,005	193.08	0.78	233.18	0.34	52.49	0.13	58.11	0.01	78.22	NA	
4/20/08 22:00	19,020	193.08	0.79	233.19	0.35	52.50	0.15	58.11	0.02	78.22	NA	
4/20/08 22:15	19,035	193.08	0.79	233.20	0.36	52.51	0.16	58.11	0.02	78.22	NA	
4/20/08 22:30	19,050	193.08	0.78	233.19	0.35	52.50	0.15	58.11	0.01	78.22	NA	
4/20/08 22:45	19,065	193.08	0.79	233.20	0.36	52.52	0.16	58.13	0.03	78.22	NA	
4/20/08 23:00	19,080	193.09	0.79	233.20	0.36	52.52	0.17	58.12	0.03	78.23	NA	
4/20/08 23:15	19,095	193.09	0.79	233.21	0.37	52.55	0.19	58.13	0.03	78.23	NA	
4/20/08 23:30	19,110	193.09	0.79	233.21	0.37	52.53	0.18	58.13	0.04	78.23	NA	
4/20/08 23:45	19,125	193.10	0.80	233.21	0.37	52.55	0.20	58.14	0.05	78.23	NA	
4/21/08 0:00	19,140	193.09	0.79	233.22	0.38	52.56	0.20	58.14	0.05	78.23	NA	
4/21/08 0:15	19,155	193.11	0.81	233.22	0.38	52.57	0.22	58.16	0.06	78.24	NA	
4/21/08 0:30	19,170	193.11	0.81	233.22	0.38	52.57	0.22	58.14	0.05	78.24	NA	
4/21/08 0:45	19,185	193.11	0.81	233.23	0.39	52.58	0.22	58.15	0.06	78.25	NA	
4/21/08 1:00	19,200	193.12	0.82	233.23	0.39	52.57	0.22	58.14	0.04	78.24	NA	
4/21/08 1:15	19,215	193.11	0.81	233.22	0.38	52.58	0.22	58.14	0.05	78.23	NA	
4/21/08 1:30	19,230	193.11	0.81	233.22	0.38	52.57	0.22	58.14	0.05	78.23	NA	
4/21/08 1:45	19,245	193.12	0.82	233.23	0.39	52.58	0.22	58.14	0.05	78.23	NA	
4/21/08 2:00	19,260	193.12	0.82	233.22	0.38	52.58	0.23	58.14	0.05	78.23	NA	
4/21/08 2:15	19,275	193.12	0.82	233.23	0.39	52.59	0.24	58.15	0.06	78.23	NA	
4/21/08 2:30	19,290	193.12	0.82	233.23	0.39	52.60	0.24	58.16	0.06	78.23	NA	
4/21/08 2:45	19,305	193.11	0.81	233.23	0.39	52.60	0.24	58.16	0.06	78.24	NA	
4/21/08 3:00	19,320	193.13	0.83	233.23	0.39	52.62	0.26	58.16	0.07	78.24	NA	
4/21/08 3:15	19,335	193.12	0.82	233.23	0.39	52.60	0.25	58.16	0.06	78.24	NA	
4/21/08 3:30	19,350	193.11	0.81	233.24	0.40	52.61	0.26	58.16	0.07	78.23	NA	
4/21/08 3:45	19,365	193.12	0.82	233.23	0.40	52.61	0.26	58.16	0.06	78.24	NA	
4/21/08 4:00	19,380	193.12	0.82	233.23	0.39	52.62	0.26	58.17	0.07	78.24	NA	
4/21/08 4:15	19,395	193.12	0.82	233.24	0.40	52.61	0.26	58.16	0.07	78.24	NA	
4/21/08 4:30	19,410	193.11	0.81	233.23	0.39	52.62	0.27	58.16	0.07	78.24	NA	
4/21/08 4:45	19,425	193.12	0.82	233.23	0.39	52.62	0.26	58.16	0.07	78.24	NA	
4/21/08 5:00	19,440	193.12	0.82	233.23	0.39	52.61	0.25	58.15	0.06	78.23	NA	
4/21/08 5:15	19,455	193.11	0.81	233.23	0.39	52.60	0.24	58.15	0.06	78.22	NA	
4/21/08 5:30	19,470	193.11	0.81	233.23	0.39	52.61	0.26	58.16	0.07	78.23	NA	
4/21/08 5:45	19,485	193.12	0.82	233.23	0.39	52.62	0.27	58.16	0.07	78.23	NA	
4/21/08 6:00	19,500	193.12	0.82	233.24	0.40	52.61	0.25	58.16	0.07	78.23	NA	
4/21/08 6:15	19,515	193.12	0.82	233.23	0.39	52.63	0.27	58.17	0.07	78.23	NA	
4/21/08 6:30	19,530	193.12	0.82	233.24	0.40	52.62	0.26	58.17	0.07	78.24	NA	
4/21/08 6:45	19,545	193.12	0.83	233.24	0.40	52.63	0.27	58.17	0.08	78.24	NA	
4/21/08 7:00	19,560	193.13	0.83	233.24	0.40	52.62	0.27	58.17	0.07	78.24	NA	
4/21/08 7:15	19,575	193.12	0.83	233.24	0.40	52.62	0.27	58.17	0.07	78.24	NA	
4/21/08 7:30	19,590	193.12	0.82	233.24	0.40	52.62	0.27	58.15	0.06	78.24	NA	
4/21/08 7:45	19,605	193.13	0.83	233.24	0.40	52.61	0.26	58.16	0.06	78.24	NA	
4/21/08 8:00	19,620	193.12	0.82	233.24	0.40	52.62	0.26	58.15	0.06	78.23	NA	

CROW BUTTE RESOURCES, INC.

**Technical Report
Three Crow Expansion Area**



APPENDIX F

**WATER USER SURVEY
INFORMATION FOR ACTIVE
WATER SUPPLY WELLS WITHIN
2.25-MILE AREA OF REVIEW**

CROW BUTTE RESOURCES, INC.

**Technical Report
Three Crow Expansion Area**



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APPENDIX F
Water User Survey Information for Active Water Supply Wells in 2.25-Mile Area of Review
Revised January 18, 2010

Well Id	DNR Registration number	Township Location	Range Location	Section Location	Name of Strata	Pump test results	Water quality	Owners name	Street address	City address	State address	Zip Code address	GPS Coordinate	Date	Permit area	Contact Person	Telephone	Interviewer	Supply Source	Water Use Type	Well Status	Estimated Rate	History	Depth	Static Level	Drill Date	Casing Depth	Diameter	Pumping Method	Driller	Casing Type	Remarks	Latitude	Longitude	Easting	Northing	Screen Interval (ft)	Remarks _2	Remarks _3							
0282		31N	52W	32	Brule FM			Janice Hoffman	41 Smith Rd.	Crawford	NE	69339		14-Jul-05	Three Crow		665-2692	Chance Galey	Well	Agricultural	Active			200 ft.					Windmill	dhubb	steel				W:103.44 218	N:42.6193 4										
0283		31N	52W	32	Brule FM			Janice Hoffman	41 Smith Rd.	Crawford	NE	69339		14-Jul-05	Three Crow		665-1611	Chance Galey	Well	Agricultural	Active			200 ft.					Windmill	dhubb	steel	Used for cattle			W:103.44 129	N:42.61554										
0284		31N	52W	33	Brule Fm			Melvin miller	660 4-Mile Rd.	Crawford	NE			11-Jul-05	Three Crow		665-2509	Chance Galey	Well	Agricultural	Active			90 ft.					submersible	Chubb	PVC				W:103.42 927	N:42.6246 1										
0286		31N	52W	28	Brule Fm			Melvin Miller	780 4- Mile Rd.	Crawford	NE			12-Jul-05	Three Crow		665-2509	Chance Galey	Well	Agricultural	Active			90 ft.					Windmill		surface casing	No Coordinates	No Coordinates													
0287		30N	52W	6	Brule Fm			La Verne Dyer	1006 2nd St.	Crawford	NE			17-Jul-96	Three Crow				Well	Agricultural	Active			50 ft.			6 in.	Windmill			same as 0404															
0300		31N	53W	26	No Data			Nick Rudloff	314 4-Mile Rd.	Crawford	NE	69339		29-Jul-05	Three Crow		665-2635	Chance Galey	Well	Agricultural	Active								hand pump			old well pit covered with barrel			W:103.50 264	N:42.63023										
0310		30N	52W	6	Brule Fm			La Verne Dyer	1006 2nd st.	Crawford	NE			17-Jul-96	Three Crow		665-1785	Dave Dunn	Well	Agricultural	Active			50 ft.			6 in.	submersible		steel	windmill; old house(olds Mable Hamaker Place															
0311		31N	52W	27	Brule Fm			Melvin Miller	660 4-Mile Rd.	Crawford	NE	69339		12-Jul-05	Three Crow		665-2509	Chance Galey	Well	Agricultural	Active			200 ft.					submersible		PVC				W:103.41 391	N:42.6262 8										
0312		31N	52W	21	Brule Fm			State of Nebraska	Fort Robinson	Crawford	NE	69339		25-Jul-05	Three Crow	Mike Morava	665-2900	Chance Galey	Well	Agricultural	Active			150 ft.	60 ft.			6 in.	Windmill	dhubb	steel															
0313		31N	52W	20	Brule Fm			State of Nebraska	Fort Robinson	Crawford	NE	69339		25-Jul-05	Three Crow	Mike Morava	665-2900	Chance Galey	Well	Agricultural	Active			150 ft.	60 ft.			6 in.	Windmill	dhubb	steel															
0314		31N	52W	19	Brule Fm			State of Nebraska	Fort Robinson	Crawford	NE	69339		25-Jul-05	Three Crow	Mike Morava	665-2900	Chance Galey	Well	Agricultural	Active			150 ft.	60 ft.			6 in.	Windmill	dhubb	steel															
0322		31N	53W	26				Nick Rudloff	314 4-Mile Rd.	Crawford	NE	69339		29-Jul-05	Three Crow		665-2635	Chance Galey	Well	Agricultural	Active								hand pump			windmill is gone			W:103.50 456	N:42.6288 4										
0332		30N	52W	8	Brule Fm			Arnold Johnson	RR	Crawford	NE			12-May-97	Three Crow		665-2759	Chance Galey	Well	Agricultural	Active			120 ft.		01-Jan-89	120 ft.	6 in.	Windmill	dhubb	PVC	USA land			UNABLE TO GPS											
0333		30N	52W	8	Brule Fm			Arnold Johnson	RR	Crawford	NE	69339		19-Jul-05	Three Crow		665-2759	Chance Galey	Well	Agricultural	Active			100 ft.		01-Jan-76	100 ft.	6 in.	submersible	dhubb	PVC				W:103.44 995	N:42.5967 2										
0334		30N	52W	8	Brule Fm			Arnold Johnson	RR	Crawford	NE	69339		19-Jul-05	Three Crow		665-2759	Chance Galey	Well	Domestic	Active			100 ft.	40 ft.	01-Jan-75	100 ft.	6 in.				house hold water			W:103.44 935	N:42.5960 0										
0335		30N	52W	8	Brule Fm			Arnold Johnson	RR	Crawford	NE	69339		19-Jul-05	Three Crow		665-2759	Chance Galey	Well	Agricultural	Active			160 ft.				6 in.	Windmill		Metal				W:103.59 605	N:42.59605										
0337		31N	52W	34	Brule Fm			Melvin Miller	660 4-Mile Rd.	Crawford	NE	69339		12-Jul-05	Three Crow		665-2509	Chance Galey	Well	Agriculture/Do mestic	Active			90 ft.		01-Jan-20	10-15 ft.	6 in.	submersible		Metal	south of house			N:42.6240 501	W:103.40 501									House hold well	
0338		30N	52W	3	Brule Fm			Melvin Miller	660 4-Mile Rd.	Crawford	NE	69339		12-Jul-05	Three Crow		665-2509	Chance Galey	Well	Agricultural	Active			60 ft.	20 ft.		60 ft.	6 in.	Windmill		Metal				W:103.41 727	N:42.6066 2										
0339		31N	52W	22	Brule Fm			Ray Suchor	15 Reed St.	Crawford	NE	69339		21-Jul-05	Three Crow		665-2098	Chance Galey	Well	agricultural/Do mestic	Active			30 ft.					submersible		Metal	old well			W:103.40 792	N:42.6517 8										
0360		31n	53W	23	Brule Fm			Morning Star Memorial Fundation		Lame Deer	MT			04-May-05	Three Crow	Shawn Hunter	665-2298	Chance Galey	Well	Agricultural	Active			190 ft.	140 ft.	01-Jan-60	190 ft.	6 in.	Windmill	Tomson	metal				W:103.51 889	N:42.64668										
0361		31N	53W	26	Brule Fm			Kenny Vogl	51 Vogl Loop	Crawford	NE	69339		25-Jul-05	Three Crow		665-2879	Chance Galey	Well	Agricultural	Active			250 ft.		01-Jan-90	250 ft.	6 in.	submersible	Gale Land	PVC	east of home place			W:103.51 88	N:42.6401 2										
0364		30N	53W	1	Brule Fm			Double Cross Ranch	420 Deep Creek Rd.(Shawn)	Crawford	NE	69339		20-Jul-05	Three Crow	Shawn Hunter	665-2298	Chance Galey	Well	agricultural/Do mestic	Active								submersible		Steel	well by the house electric														
0367		31N	53W	35	Brule Fm			Harold Glendy	P.O. Box 373	Crawford	NE	69339		16-Jul-05	Three Crow		665-1745	Chance Galey	Well	Agricultural	Active			80 ft.				6 in.		Chubb	PVC	well west of county road old well			W:103.50 090	N:42.6158 2								Next to old building, new casing		
0368		31N	53W	26	Brule Fm			Bennie Ward	100 Glendy Rd.	Crawford	NE	69339		16-Jul-05	Three Crow		665-1935	Chance Galey	Well	agricultural/Do mestic	Active			170 ft.		01-Jan-95	170 ft.	6 in.	submersible	chubb	PVC				W:103.51 832	N:42.6261 5										
0369		31N	53W	23	Brule Fm			Morning Star Memorial Fundation		Lame Deer	MT			04-May-05	Three Crow	Shawn Hunter	665-2298	Chance Galey	Well	Agricultural	Active			120 ft.	100 ft.	01-Jan-60	10-15	6 in.	Windmill		metal				103.50954	N:42.65092										
0371		31N	53W	27	Brule Fm			Kenny Vogl	51 Vogl Loop		NE			28-Jul-05	Three Crow		665-2879	Chance Galey	Well	Agricultural	Active			140 ft.		01-Jan-70	q	6 in.	submersible	Thomson	metal	west of home place			W:103.52 752	N:42.6383 7										
0372		31N	53W	27	Brule Fm			Kenny Vogl	51 Vogl	Crawford	NE	69339		25-Jul-05	Three Crow		665-2879	Chance Galey	Well	Domestic	Active			80 ft.	50 ft.		70 ft.	6 in.	submersible		PVC	Kenny Vogl home place			W:103.52 034	N:42.6398 5										
0373		31N	53W	34	Brule Fm			Kenny Vogl	51 Vogl Loop	Crawford	NE	69339		28-Jul-05	Three Crow		665-2879	Chance Galey	Well	Agricultural	Active			140 ft.	50 ft.	01-Jan-80		6 in.		Gale Land	PVC	south of home place by shed			W:103.52 132	N:42.6249 7										
0374	G-100101	31N	53W	34	Brule Fm			Harold Glendy	P.O. Box 373	Crawford	NE	69339		16-Jul-05	Three Crow		665-1745	Chance Galey	Well	agricultural/Do mestic	Active			200 ft.									If pumped hard it goes dry;			W:103.52 267	N:42.6181 4								Harold's house well	
0381		31N	53W	26	Brule Fm			Kenny Vogl	51 Vogl Loop	Crawford	NE	69339		28-Jul-05	Three Crow		665-2874	Chance Galey	Well	Agricultural	Active			40-50 ft.					submersible						W:103.51 410	N:42.6325 9										
0386		31N	53W	23	Brule Fm			Morning Star Memorial Fundation		Lame Deer	NE			04-May-05	Three Crow	Shawn Hunter	665-2298	Chance Galey	Well	Agricultural	Active	30-35 gpm		160 ft.	15 ft.	01-Jan-92			Nelson Wells INC.			City of Crawford test hole			W:103.50 434	N:42.6440 4							TH# 10 Hughes			
0390		30N	52W	7	Brule Fm			Bill Stoldorf	420 Main St.	Crawford	NE	69339		14-Jul-05	Three Crow		665-1168	Chance Galey		Domestic	Active			80 ft.		01-Jan-80			hand pump	Chubb		up the ridge 150 yds. casing socking out of ground			W:103.47 651	N:42.5961 6					on concrete slab.	Hand pump is gone.				
0395		31N	53W	34	No Data			Michael and Nancy Badura	50 Glendy Rd.	Crawford	NE	69339		15-Jul-05	Three Crow		665-1259(402-657-1856)	Chance Galey	Well	Domestic	Active								submersible	Chubb		summer home?			W:103.52 477	N:42.6243 3										
0398	G-132554	31N	52W	15	Brule Fm			Martha Raben		Crawford	NE	69339		15-Jul-05	Three Crow	Jacki Mills	665-2570	Chance Galey	Well	Domestic	Active			95 ft.	14 ft.	01-Jan-05		6 in.	Windmill	Chubb	PVC				W:103.41 266	N:42.6656 2										
0400		30N	53W	2	No Data			Double Cross Ranch	420 Deep Creek Rd.(Shawn)	Crawford	NE	69339		20-Jul-05	Three Crow	Shawn Hunter	665-2298	Chance Galey	Well	Agricultural	Active								Windmill		Steel															

APPENDIX F
Water User Survey Information for Active Water Supply Wells in 2.25-Mile Area of Review
Revised January 18, 2010

Well Id	DNR Registration number	Township Location	Range Location	Section Location	Name of Strata	Pump test results	Water quality	Owners name	Street address	City address	State address	Zip Code address	GPS Coordinate	Date	Permit area	Contact Person	Telephone	Interviewer	Supply Source	Water Use Type	Well Status	Estimated Rate	History	Depth	Static Level	Drill Date	Casing Depth	Diameter	Pumping Method	Driller	Casing Type	Remarks	Latitude	Longitude	Easting	Northing	Screen Interval (ft)	Remarks _2	Remarks _3			
0421		31N	53W	23	Brule FM			Morning Star Memorial Fundation		Lame Deer	MT			04-May-05	Three Crow	Shawn Hunter	665-2298	Chance Galey	Well	Agriculture	Active			60 ft.				6 in.		Chubb	PVC					W:103.50752	N:42.64443					
0432		30N	52W	4	No Data			Keith Emmett	444 Dead Man Rd.(scott)	Crawford	NE	69339		19-Jul-05	Three Crow	Scott Schafer	665-1741	Chance Galey	Well	Agriculture	Active							hand pump				old Wade place, next to buildings south of old					103.42551	42.59886		house. Dont use it but it is supposed to work		
0434		31N	52W	26	Brule Fm			Dave & Jess Flack	13272 Hwy. 2-71	Crawford	NE	69339		19-Jul-05	Three Crow		430-3565	Chance Galey	Well	Domestic/Agriculture	Active			125 ft.	70 ft.	01-Jun-00	125 ft.		submersible	Chubb	PVC					W:103.40014	N:42.63290					
0446	G-154713	31N	52W	26	Brule Fm			Mike Dyer	144 Dyer Rd	Crawford	NE	69339		11-Jan-10	Three Crow	Jim Prosser	665-2254		Well	Agricultural	Active	12		200	75	6-Jun-09	180	5	submersible	Prosser	PVC					??	??	180-200				
0447	G-117090	31N	52W	23	Brule Fm			Memorial Star	PO Box 69	Lame Deer	MT	59043		19-Dec-08	Three Crow	Chubb	665-1418		Well	Agricultural	Active	10		60	31	15-Nov-01	33	5	submersible	Chubb	PVC					2018W	1541N	33-53				
0448	G-132434	31N	53W	13	Brule Fm			NG&PC		Lincoln	NE	68503		19-Dec-08	Three Crow	Prosser	665-2254		Well	Agricultural	Active	3		200	140	05-Spt-04	180	4.2	submersible	Prosser	PVC					2106E	1332N	180-200				
0450	G-080818	31N	52W	8	Brule Fm			City of Crawford	209 Elm	Crawford	NE	69339		8-Jan-10	Three Crow	DNR Web Site	665-1462	R.honda Grantham	Well	Livestock Observation	Active			260	19	11-Aug-93		2 3/8	No pump installed	Nelson Well Service					1980E	330N						
0451	G-080819	31N	52W	8	Brule Fm			City of Crawford	209 Elm	Crawford	NE	69339		8-Jan-10	Three Crow	DNR Web Site	665-1462	R.honda Grantham	Well	Livestock Observation	Active	300		200	5	13-Aug-93		8 5/8	No pump installed	Nelson Well Service	PVC Schedule 40					2500W	660N	59 - 199				
0452	G-080820	31N	52W	8	Brule Fm			City of Crawford	209 Elm	Crawford	NE	69339		8-Jan-10	Three Crow	DNR Web Site	665-1462	R.honda Grantham	Well	Livestock Observation	Active			200	5	9-Aug-93		2 3/8	No pump installed	Nelson Well Service	PVC					2520W	660N					
0453	G-080821	31N	52W	8	Brule Fm			City of Crawford	209 Elm	Crawford	NE	69339		8-Jan-10	Three Crow	DNR Web Site	665-1462	R.honda Grantham	Well	Livestock Observation	Active			200	5	10-Aug-93		2 3/8	No pump installed	Nelson Well Service	PVC					1980W	700N					
0454	G-093532	31N	52W	15	Brule Fm			City of Crawford	209 Elm Street	Crawford	NE	69339		05-Apr-10	Three Crow	Mike Kesseling	665-1462	Grantham	Well	Public Water Supply	active	50 gpm		103	28	26-Jun-97	0-40'	12"	submersible	Sargent Irrigation	Stainless Steel					2630	2920	40-100'				
0455	G-093533	31N	52W	15	Brule Fm			City of Crawford	209 Elm Street	Crawford	NE	69339		05-Apr-10	Three Crow	Mike Kesseling	308-665-1462	Grantham	Well	Public Water Supply	active	90 gpm		102	28	26-Jun-97	0-40'	12"	submersible	Sargent Irrigation	Stainless Steel					2590	3100	40-100'				
0456	G-93528	31N	52W	8	Alluvium			City of Crawford	209 Elm Street	Crawford	NE	69339		05-Apr-10	Three Crow	DNR Web Site	308-665-1462	Grantham	Well	Public Water Supply	active	40 gpm		21-	3	25-Jun-97	0-4'	16"	submersible	Sargent Irrigation	Stainless Steel					2010	200	4-21'				
0457	G-93529	31N	52W	8	Alluvium			City of Crawford	209 Elm Street	Crawford	NE	69339		05-Apr-10	Three Crow	DNR Web Site	308-665-1462	Grantham	Well	Public Water Supply	active	120 gpm		20	1	25-Jun-97	0-4'	16"	submersible	Sargent Irrigation	Steel					2100	200	4-20'				
0458	G-93530	31N	52W	8	Alluvium			City of Crawford	209 Elm Street	Crawford	NE	69339		05-Apr-10	Three Crow	DNR Web Site	308-665-1462	Grantham	Well	Public Water Supply	active	60 gpm		28	5	28-Aug-97	0-8'	16"	submersible	Sargent Irrigation	Steel					2050	200	8-20'				
0459	G-93531	31N	52W	8	Alluvium			City of Crawford	209 Elm Street	Crawford	NE	69339		05-Apr-10	Three Crow	DNR Web Site	308-665-1462	Grantham	Well	Public Water Supply	active	900 gpm		27	11	01-Jul-97	0-27'	86"	submersible	Sargent Irrigation	Precast Concrete	Concrete wet well that receives water from an infiltration gallery					2050	200	NA	Infiltration Gallery		

CROW BUTTE RESOURCES, INC.

Technical Report
Three Crow Expansion Area



APPENDIX G

**WATER USER SURVEY
INFORMATION FOR ABANDONED
WATER SUPPLY WELLS WITHIN
2.25-MILE AREA OF REVIEW**

CROW BUTTE RESOURCES, INC.

Technical Report
Three Crow Expansion Area



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APPENDIX G
Water User Survey Information for
Abandoned Water Supply Wells in 2.25-Mile Area of Review
Revised January 18, 2010

Well Id	Township Location	Range Location	Section Location	Owners name	Street	City	State	Zip Code	Date	Permit area	Contact Person	Telephone	Interviewer	Supply Source	Water Use Type	Depth	Static Level	Drill Date	Casing Depth	Diameter	Pumping Method	Driller	Casing Type	Remarks	Easting	Northing	Remarks_2	Remarks_3	
0003	31N	52W	15	Martha Raben	13001 Hwy. 2	Crawford	NE	69339	15-Jul-05	Three Crow	Jacki Mills	665-2570	Chance Galey	Well	Agricultural	100 ft.				5 in.	Windmill			West of House	W:103.41.273	N:42.66562			
0279A	31N	52W	33	Melvin Miller	660 4-Mile Rd.	Crawford	NE	69339	11-Jul-05	Three Crow		665-2509	Chance Galey	Well	Agricultural	75 ft.					Windmill		Surface Casing	Caved in	W:103.42937	N:42.62460			
AW0285	31N	52W	28	Melvin miller	660 4-Mile Rd.	Crawford	NE	69339	12-Jul-05	Three Crow		665-2509	Chance Galey	Well	Agricultural						Submersible			old well	W:103.42570	N:42.62628	behind house		
0291	31N	52W	22	Melvin Jones	70 Jones Drive	Crawford	NE	69339	14-Jul-05	Three Crow		665-1972	Chance Galey	Well										covered with dirt	W:103.41474	N:42.65243	Under small shed next to		
0292	31N	53W	25	George Sulzbach	374 4-Mile Rd.	Crawford	NE	69339	14-Jul-05	Three Crow		665-2055	Chance Galey	Well						6 in.				old windmill casing	W:103.48844	N:42.63582			
0293	31N	53W	35	Nick Rudloff	314 4-Mile Rd.	Crawford	NE	69339	29-Jul-05	Three Crow		665-2635	Chance Galey	Well						6 in.			Galvanized	old fallen down windmill	W:103.50279	N:42.62931			
0294	31N	52W	31	Jack Ellis	1117 2nd St.	Crawford	NE	69339	01-Jul-96	Three Crow		665-1338	Dave Dunn	Well										covered with dirt					
0295	31N	52W	31	Jack Ellis	1117 2nd st.	Crawford	NE	69339	01-Jul-96	Three Crow		665-1338	Dave Dunn	Well							Windmill			old windmill by house					
0296	31N	52W	32	Jack Ellis	1117 2nd St.	Crawford	NE	69339	01-Jun-96	Three Crow		665-1338	Dave Dunn	Well							Windmill			old windmill					
0297	31N	52W	33	Janice Hoffman	41 Smith Rd.	Crawford	NE	69339	14-Jul-05	Three Crow		665-2692	Chance Galey	Well		80 ft.					Hand Pump			broken	W:103.43716	N:42.61836	Next to old house along fence line next	to cattle tank.	
0299	30N	52W	5	Arnald Johnson	Smith Rd.	Crawford	NE	69339	19-Jul-05	Three Crow		665-2759	Chance Galey	Well		80 ft.				6 in.	Windmill			doesn't pump water	W:103.44747	N:42.60096			
0318	31N	53W	36	Harold Glendy	P.O. Box 373	Crawford	NE	69339	16-Jul-05	Three Crow		665-1745	Chance Galey	Well		75 ft.				5 in.			Metal	Next to house well	W: 103.52257	N:42.61811			
0325	31N	52W	34	Melvin Miller	660 4-Mile Rd.	Crawford	NE	69339	11-Jul-05	Three Crow		665-2509	Chance Galey	Well	Domestic	80 ft.		01-Jan-30	10-15 ft.	6 in.			Metal	well at old school house	W:103.40276	N:42.62487			
0365	30N	53W	1	Double Cross	420 Deep Creek Rd.	Crawford	NE	69339	20-Jul-05	Three Crow	Shawn Hunter	665-2298	Chance Galey	Well	Agricultural						Windmill			UNAWARE OF WELL.					
0376	30N	53W	3	Harold Glendy	P.O. Box 373	Crawford	NE	69339	16-Jul-05	Three Crow		665-1745	Chance Galey	Well	Agricultural						Windmill			Old well	W:103.51099	N:42.61346	Windmill by the county		
0388	31N	52W	34	Melvin Miller	660 4-Mile Rd.	Crawford	NE	69339	12-Jul-05	Three Crow		665-2509	Chance Galey	Well	Domestic									old well: never used just	W:103.41232	N:42.61730			
0391	31N	52W	27	Melvin Jones	70 Jones Drive	Crawford	NE	69339	14-Jul-05	Three Crow		665-1972	Chance Galey											Marked by steel post	W:103.41502	N:42.63443			
0392	31N	52W	33	Janice Hoffma		Crawford	NE	69339	14-Jul-05	Three Crow		665-2692	Chance Galey	Well	Agricultural	80 ft.					Submersible			Next to fallen down cabin	W:103.42951	N:42.61266			
0410	31N	52W	29	Melvin Miller	660 4-Mile Rd.	Crawford	NE	69339	11-Jul-05	Three Crow		665-2509	Chance Galey	Well		90-100 ft.									W:103.44225	N:42.63634			
0411	31N	52W	29	Melvin Miller	660 4-Mile Rd.	Crawford	NE	69339	11-Jul-05	Three Crow		665-2509	Chance Galey											Boarders state property.	W:103.45878	42.63707			
0413	31N	52W	28	Melvin Miller	660 4-Mile Rd.	Crawford	NE	69339	12-Jul-05	Three Crow		665-2509	Chance Galey	Well										Next to a tree	W:103.43211	N:42.63761			
0414	31N	52W	34	Melvin Miller	660 4-Mile Rd.	Crawford	NE	69339	12-Jul-05	Three Crow		665-2509	Chance Galey											Never used just casing	W:103.42038	N:42.62012			
AW0415	31N	52W	28	Melvin Miller	660 4-Mile Rd.	Crawford	NE	69339	12-Jul-05	Three Crow		665-2509	Chance Galey	Well		200 ft.						Bell		Covered by a barrel	W:103.42721	N:42.62587			
0419	31N	53W	26	Nick Rudloff	314 4-Mile Rd.	Crawford	NE	69339	29-Jul-05	Three Crow		665-2635	Chance Galey	Well							Pump Jack				W:103.50292	N:42.62578			
0420	30N	52W	11	Mike Griffin	13001 Hwy. 2	Crawford	NE	69339	02-Aug-05	Three Crow		665-1147	Chance Galey	Well		65 ft.	20 ft.		65 ft.	4 in.	Hand Pump		Steel		W:103.40147	N:42.59470			
0279AW	31N	52W	33	Melvin Miller	660 4-Mile Rd.	Crawford	NE	69339	5-Nov-77	Three Crow		665-2509		Well		75					Windmill								
G-022460A	31N	52W	18	NG&PC		Lincoln	NE	68503	8-Jan-10	Three Crow			Mike Morava	Well	Agricultural	100	35	1-Aug-63		3 in.					Old Well	770W	2390S	Could not find well	
G-022460B	31N	52W	18	NG&PC		Lincoln	NE	68503	8-Jan-10	Three Crow			Mike Morava	Well	Agricultural	100	35	1-Aug-63		3 in.					Old Well	770W	2140S	Could not find well	
200450	31N	52W	16	NG&PC		Lincoln	NE	68503	8-Jan-10	Three Crow			Mike Morava	Well	Agricultural	110									Old Well	1759E	2438N	Well Plugged	
200443	31N	52W	17	NG&PC		Lincoln	NE	68503	8-Jan-10	Three Crow			Mike Morava	Well	Agricultural	100									Old Well	912E	1050N	Well Plugged	

CROW BUTTE RESOURCES, INC.

**Technical Report
Three Crow Expansion Area**



APPENDIX H

**GROUNDWATER ANALYTICAL
LABORATORY REPORTS**

CROW BUTTE RESOURCES, INC.

**Technical Report
Three Crow Expansion Area**



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LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09110829-001
 Client Sample ID: Miller 1

Report Date: 02/26/10
 Collection Date: 11/20/09
 Date Received: 11/24/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	246	mg/L		5		A2320 B	11/25/09 19:41 / dvg
Carbonate as CO ₃	ND	mg/L		5		A2320 B	11/25/09 19:41 / dvg
Bicarbonate as HCO ₃	301	mg/L		5		A2320 B	11/25/09 19:41 / dvg
Calcium	71	mg/L		1		E200.7	12/02/09 15:12 / cp
Chloride	6	mg/L		1		E300.0	12/01/09 23:33 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	11/25/09 09:21 / dvg
Magnesium	6	mg/L		1		E200.7	12/02/09 15:12 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	12/01/09 10:36 / jal
Nitrogen, Nitrate+Nitrite as N	2.2	mg/L		0.1		E353.2	12/01/09 16:46 / jal
Potassium	8	mg/L		1		E200.7	12/02/09 15:12 / cp
Silica	64.1	mg/L		0.2		E200.7	12/02/09 15:12 / cp
Sodium	19	mg/L		1		E200.7	12/02/09 15:12 / cp
Sulfate	10	mg/L		1		E300.0	12/01/09 23:33 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	471	umhos/cm		1		A2510 B	11/25/09 10:58 / th
pH	8.12	s.u.		0.01		A4500-H B	11/25/09 10:58 / th
Solids, Total Dissolved TDS @ 180 C	320	mg/L		10		A2540 C	11/24/09 14:59 / th
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	11/26/09 00:13 / ts
Arsenic	0.003	mg/L		0.001		E200.8	11/26/09 00:13 / ts
Barium	0.1	mg/L		0.1		E200.8	11/26/09 00:13 / ts
Boron	ND	mg/L		0.1		E200.7	12/02/09 15:12 / cp
Cadmium	ND	mg/L		0.005		E200.8	11/26/09 00:13 / ts
Chromium	ND	mg/L		0.05		E200.8	11/26/09 00:13 / ts
Copper	ND	mg/L		0.01		E200.8	11/26/09 00:13 / ts
Iron	ND	mg/L		0.03		E200.7	12/02/09 15:12 / cp
Lead	ND	mg/L		0.001		E200.8	11/26/09 00:13 / ts
Manganese	ND	mg/L		0.01		E200.8	11/26/09 00:13 / ts
Mercury	ND	mg/L		0.001		E200.8	11/26/09 00:13 / ts
Molybdenum	ND	mg/L		0.1		E200.8	11/26/09 00:13 / ts
Nickel	ND	mg/L		0.05		E200.8	11/26/09 00:13 / ts
Selenium	0.003	mg/L		0.001		E200.8	11/26/09 00:13 / ts
Uranium	0.0137	mg/L		0.0003		E200.8	11/26/09 00:13 / ts
Vanadium	ND	mg/L		0.1		E200.8	11/26/09 00:13 / ts
Zinc	ND	mg/L		0.01		E200.8	11/26/09 00:13 / ts
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/04/09 01:30 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09110829-001
 Client Sample ID: Miller 1

Report Date: 02/26/10
 Collection Date: 11/20/09
 Date Received: 11/24/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0M	02/18/10 18:47 / dm
Lead 210 precision (±)	0.4	pCi/L				E909.0M	02/18/10 18:47 / dm
Lead 210 MDC	0.7	pCi/L				E909.0M	02/18/10 18:47 / dm
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	12/29/09 14:45 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/29/09 14:45 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	12/29/09 14:45 / plj
Radium 226	<0.19	pCi/L	U	0.19		E903.0	12/08/09 03:28 / trs
Radium 226 precision (±)	0.13	pCi/L				E903.0	12/08/09 03:28 / trs
Radium 226 MDC	0.19	pCi/L				E903.0	12/08/09 03:28 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E907.0	12/10/09 14:20 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E907.0	12/10/09 14:20 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	12/10/09 14:20 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<2.8	pCi/L	U	2.8		E909.0M	01/13/10 15:43 / dm
Lead 210 precision (±)	1.6	pCi/L				E909.0M	01/13/10 15:43 / dm
Lead 210 MDC	2.8	pCi/L				E909.0M	01/13/10 15:43 / dm
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	12/11/09 09:00 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/11/09 09:00 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	12/11/09 09:00 / plj
Radium 226	<0.2	pCi/L	U	0.2		E903.0	12/15/09 13:21 / jah
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/15/09 13:21 / jah
Radium 226 MDC	0.2	pCi/L				E903.0	12/15/09 13:21 / jah
Thorium 230	<0.04	pCi/L	U	0.04		E907.0	12/14/09 19:45 / dmf
Thorium 230 precision (±)	0.03	pCi/L				E907.0	12/14/09 19:45 / dmf
Thorium 230 MDC	0.04	pCi/L				E907.0	12/14/09 19:45 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-4.48	%				Calculation	12/04/09 09:45 / kbh
Anions	5.50	meq/L				Calculation	12/04/09 09:45 / kbh
Cations	5.02	meq/L				Calculation	12/04/09 09:45 / kbh
Solids, Total Dissolved Calculated	359	mg/L				Calculation	12/04/09 09:45 / kbh
TDS Balance (0.80 - 1.20)	0.890					Calculation	12/04/09 09:45 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09110829-002
 Client Sample ID: BOW 2006-5

Report Date: 02/26/10
 Collection Date: 11/20/09
 Date Received: 11/24/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	392	mg/L		5		A2320 B	11/30/09 17:58 / dvg
Carbonate as CO3	ND	mg/L		5		A2320 B	11/30/09 17:58 / dvg
Bicarbonate as HCO3	478	mg/L		5		A2320 B	11/30/09 17:58 / dvg
Calcium	100	mg/L		1		E200.7	12/07/09 12:49 / cp
Chloride	14	mg/L		1		E300.0	12/01/09 23:50 / ljl
Fluoride	1.2	mg/L		0.1		A4500-F C	11/25/09 09:28 / dvg
Magnesium	14	mg/L		1		E200.7	12/07/09 12:49 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/01/09 10:44 / jal
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	12/01/09 16:48 / jal
Potassium	12	mg/L		1		E200.7	12/07/09 12:49 / cp
Silica	53.1	mg/L		0.2		E200.7	12/02/09 15:16 / cp
Sodium	34	mg/L		1		E200.7	12/07/09 12:49 / cp
Sulfate	24	mg/L		1		E300.0	12/01/09 23:50 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	730	umhos/cm		1		A2510 B	11/25/09 11:01 / th
pH	8.14	s.u.		0.01		A4500-H B	11/25/09 11:01 / th
Solids, Total Dissolved TDS @ 180 C	499	mg/L		10		A2540 C	11/24/09 14:59 / th
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	11/26/09 00:20 / ts
Arsenic	0.006	mg/L		0.001		E200.8	11/26/09 00:20 / ts
Barium	0.2	mg/L		0.1		E200.8	11/26/09 00:20 / ts
Boron	ND	mg/L		0.1		E200.7	12/02/09 15:16 / cp
Cadmium	ND	mg/L		0.005		E200.8	11/26/09 00:20 / ts
Chromium	ND	mg/L		0.05		E200.8	11/26/09 00:20 / ts
Copper	ND	mg/L		0.01		E200.8	11/26/09 00:20 / ts
Iron	ND	mg/L		0.03		E200.7	12/02/09 15:16 / cp
Lead	0.002	mg/L		0.001		E200.8	11/26/09 00:20 / ts
Manganese	0.07	mg/L		0.01		E200.8	11/26/09 00:20 / ts
Mercury	ND	mg/L		0.001		E200.8	11/26/09 00:20 / ts
Molybdenum	ND	mg/L		0.1		E200.8	11/26/09 00:20 / ts
Nickel	ND	mg/L		0.05		E200.8	11/26/09 00:20 / ts
Selenium	ND	mg/L		0.001		E200.8	11/26/09 00:20 / ts
Uranium	0.0227	mg/L		0.0003		E200.8	11/26/09 00:20 / ts
Vanadium	ND	mg/L		0.1		E200.8	11/26/09 00:20 / ts
Zinc	1.14	mg/L		0.01		E200.8	11/26/09 00:20 / ts
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/04/09 01:39 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09110829-002
 Client Sample ID: BOW 2006-5

Report Date: 02/26/10
 Collection Date: 11/20/09
 Date Received: 11/24/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0M	02/18/10 18:47 / dm
Lead 210 precision (±)	0.4	pCi/L				E909.0M	02/18/10 18:47 / dm
Lead 210 MDC	0.7	pCi/L				E909.0M	02/18/10 18:47 / dm
Polonium 210	<1.0	pCi/L	U	1.0		E912.0	12/29/09 14:45 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/29/09 14:45 / plj
Polonium 210 MDC	1.0	pCi/L				E912.0	12/29/09 14:45 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	12/08/09 03:28 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	12/08/09 03:28 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	12/08/09 03:28 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E907.0	12/10/09 14:20 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E907.0	12/10/09 14:20 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	12/10/09 14:20 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<2.7	pCi/L	U	2.7		E909.0M	01/13/10 15:43 / dm
Lead 210 precision (±)	1.6	pCi/L				E909.0M	01/13/10 15:43 / dm
Lead 210 MDC	2.7	pCi/L				E909.0M	01/13/10 15:43 / dm
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	12/11/09 09:00 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/11/09 09:00 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	12/11/09 09:00 / plj
Radium 226	<0.2	pCi/L	U	0.2		E903.0	12/15/09 13:21 / jah
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/15/09 13:21 / jah
Radium 226 MDC	0.2	pCi/L				E903.0	12/15/09 13:21 / jah
Thorium 230	<0.03	pCi/L	U	0.03		E907.0	12/14/09 19:45 / dmf
Thorium 230 precision (±)	0.02	pCi/L				E907.0	12/14/09 19:45 / dmf
Thorium 230 MDC	0.03	pCi/L				E907.0	12/14/09 19:45 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-4.89	%				Calculation	12/08/09 09:32 / kbh
Anions	8.78	meq/L				Calculation	12/08/09 09:32 / kbh
Cations	7.96	meq/L				Calculation	12/08/09 09:32 / kbh
Solids, Total Dissolved Calculated	502	mg/L				Calculation	12/08/09 09:32 / kbh
TDS Balance (0.80 - 1.20)	0.990					Calculation	12/08/09 09:32 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09110829-003
 Client Sample ID: BOW 2006-6

Report Date: 02/26/10
 Collection Date: 11/20/09
 Date Received: 11/24/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	172	mg/L		5		A2320 B	11/30/09 18:34 / dvg
Carbonate as CO ₃	ND	mg/L		5		A2320 B	11/30/09 18:34 / dvg
Bicarbonate as HCO ₃	210	mg/L		5		A2320 B	11/30/09 18:34 / dvg
Calcium	46	mg/L		1		E200.7	12/02/09 15:20 / cp
Chloride	4	mg/L		1		E300.0	12/02/09 00:06 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	11/25/09 09:30 / dvg
Magnesium	7	mg/L		1		E200.7	12/02/09 15:20 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/01/09 10:46 / jal
Nitrogen, Nitrate+Nitrite as N	1.8	mg/L		0.1		E353.2	12/01/09 16:51 / jal
Potassium	6	mg/L		1		E200.7	12/02/09 15:20 / cp
Silica	62.8	mg/L		0.2		E200.7	12/02/09 15:20 / cp
Sodium	14	mg/L		1		E200.7	12/02/09 15:20 / cp
Sulfate	10	mg/L		1		E300.0	12/02/09 00:06 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	348	umhos/cm		1		A2510 B	11/25/09 11:04 / th
pH	8.12	s.u.		0.01		A4500-H B	11/25/09 11:04 / th
Solids, Total Dissolved TDS @ 180 C	242	mg/L		10		A2540 C	11/24/09 15:00 / th
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	11/26/09 00:27 / ts
Arsenic	0.004	mg/L		0.001		E200.8	11/26/09 00:27 / ts
Barium	0.2	mg/L		0.1		E200.8	11/26/09 00:27 / ts
Boron	ND	mg/L		0.1		E200.7	12/02/09 15:20 / cp
Cadmium	ND	mg/L		0.005		E200.8	11/26/09 00:27 / ts
Chromium	ND	mg/L		0.05		E200.8	11/26/09 00:27 / ts
Copper	ND	mg/L		0.01		E200.8	11/26/09 00:27 / ts
Iron	ND	mg/L		0.03		E200.7	12/02/09 15:20 / cp
Lead	0.001	mg/L		0.001		E200.8	11/26/09 00:27 / ts
Manganese	ND	mg/L		0.01		E200.8	11/26/09 00:27 / ts
Mercury	ND	mg/L		0.001		E200.8	11/26/09 00:27 / ts
Molybdenum	ND	mg/L		0.1		E200.8	11/26/09 00:27 / ts
Nickel	ND	mg/L		0.05		E200.8	11/26/09 00:27 / ts
Selenium	0.003	mg/L		0.001		E200.8	11/26/09 00:27 / ts
Uranium	0.0083	mg/L		0.0003		E200.8	11/26/09 00:27 / ts
Vanadium	ND	mg/L		0.1		E200.8	11/26/09 00:27 / ts
Zinc	0.62	mg/L		0.01		E200.8	11/26/09 00:27 / ts
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/04/09 01:43 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09110829-003
 Client Sample ID: BOW 2006-6

Report Date: 02/26/10
 Collection Date: 11/20/09
 Date Received: 11/24/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0M	02/18/10 18:47 / dm
Lead 210 precision (±)	0.4	pCi/L				E909.0M	02/18/10 18:47 / dm
Lead 210 MDC	0.7	pCi/L				E909.0M	02/18/10 18:47 / dm
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	12/29/09 14:44 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/29/09 14:44 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	12/29/09 14:44 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	12/08/09 03:28 / trs
Radium 226 precision (±)	0.11	pCi/L				E903.0	12/08/09 03:28 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	12/08/09 03:28 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E907.0	12/10/09 14:20 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E907.0	12/10/09 14:20 / dmf
Thorium 230 MDC	0.1	pCi/L				E907.0	12/10/09 14:20 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<2.7	pCi/L	U	2.7		E909.0M	01/13/10 15:43 / dm
Lead 210 precision (±)	1.6	pCi/L				E909.0M	01/13/10 15:43 / dm
Lead 210 MDC	2.7	pCi/L				E909.0M	01/13/10 15:43 / dm
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	12/11/09 09:00 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/11/09 09:00 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	12/11/09 09:00 / plj
Radium 226	<0.2	pCi/L	U	0.2		E903.0	12/15/09 13:21 / jah
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/15/09 13:21 / jah
Radium 226 MDC	0.2	pCi/L				E903.0	12/15/09 13:21 / jah
Thorium 230	0.04	pCi/L		0.03		E907.0	12/14/09 19:45 / dmf
Thorium 230 precision (±)	0.03	pCi/L				E907.0	12/14/09 19:45 / dmf
Thorium 230 MDC	0.03	pCi/L				E907.0	12/14/09 19:45 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-1.91	%				Calculation	12/04/09 09:48 / kbh
Anions	3.76	meq/L				Calculation	12/04/09 09:48 / kbh
Cations	3.62	meq/L				Calculation	12/04/09 09:48 / kbh
Solids, Total Dissolved Calculated	190	mg/L				Calculation	12/04/09 09:48 / kbh
TDS Balance (0.80 - 1.20)	1.27					Calculation	12/04/09 09:48 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09110829-004
 Client Sample ID: BOW 2006-7

Report Date: 02/26/10
 Collection Date: 11/20/09
 Date Received: 11/24/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	162	mg/L		5		A2320 B	11/30/09 18:42 / dvg
Carbonate as CO3	ND	mg/L		5		A2320 B	11/30/09 18:42 / dvg
Bicarbonate as HCO3	197	mg/L		5		A2320 B	11/30/09 18:42 / dvg
Calcium	30	mg/L		1		E200.7	12/02/09 15:24 / cp
Chloride	4	mg/L		1		E300.0	12/02/09 00:55 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	11/25/09 09:38 / dvg
Magnesium	3	mg/L		1		E200.7	12/02/09 15:24 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/01/09 10:48 / jal
Nitrogen, Nitrate+Nitrite as N	1.2	mg/L		0.1		E353.2	12/07/09 13:06 / jal
Potassium	8	mg/L		1		E200.7	12/02/09 15:24 / cp
Silica	68.4	mg/L		0.2		E200.7	12/02/09 15:24 / cp
Sodium	35	mg/L		1		E200.7	12/02/09 15:24 / cp
Sulfate	15	mg/L		1		E300.0	12/02/09 00:55 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	338	umhos/cm		1		A2510 B	11/25/09 11:06 / th
pH	8.13	s.u.		0.01		A4500-H B	11/25/09 11:06 / th
Solids, Total Dissolved TDS @ 180 C	266	mg/L		10		A2540 C	11/25/09 09:23 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	11/26/09 01:01 / ts
Arsenic	0.007	mg/L		0.001		E200.8	11/26/09 01:01 / ts
Barium	0.1	mg/L		0.1		E200.8	11/26/09 01:01 / ts
Boron	ND	mg/L		0.1		E200.7	12/02/09 15:24 / cp
Cadmium	ND	mg/L		0.005		E200.8	11/26/09 01:01 / ts
Chromium	ND	mg/L		0.05		E200.8	11/26/09 01:01 / ts
Copper	ND	mg/L		0.01		E200.8	11/26/09 01:01 / ts
Iron	ND	mg/L		0.03		E200.7	12/02/09 15:24 / cp
Lead	ND	mg/L		0.001		E200.8	11/26/09 01:01 / ts
Manganese	ND	mg/L		0.01		E200.8	11/26/09 01:01 / ts
Mercury	ND	mg/L		0.001		E200.8	11/30/09 19:50 / sml
Molybdenum	ND	mg/L		0.1		E200.8	11/26/09 01:01 / ts
Nickel	ND	mg/L		0.05		E200.8	11/26/09 01:01 / ts
Selenium	0.003	mg/L		0.001		E200.8	11/26/09 01:01 / ts
Uranium	0.0100	mg/L		0.0003		E200.8	11/26/09 01:01 / ts
Vanadium	ND	mg/L		0.1		E200.8	11/26/09 01:01 / ts
Zinc	0.29	mg/L		0.01		E200.8	11/26/09 01:01 / ts
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/04/09 01:47 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09110829-004
 Client Sample ID: BOW 2006-7

Report Date: 02/26/10
 Collection Date: 11/20/09
 Date Received: 11/24/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0M	02/18/10 18:47 / dm
Lead 210 precision (±)	0.4	pCi/L				E909.0M	02/18/10 18:47 / dm
Lead 210 MDC	0.7	pCi/L				E909.0M	02/18/10 18:47 / dm
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	12/29/09 14:44 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/29/09 14:44 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	12/29/09 14:44 / plj
Radium 226	<0.16	pCi/L	U	0.16		E903.0	12/08/09 03:28 / trs
Radium 226 precision (±)	0.11	pCi/L				E903.0	12/08/09 03:28 / trs
Radium 226 MDC	0.16	pCi/L				E903.0	12/08/09 03:28 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E907.0	12/10/09 14:20 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E907.0	12/10/09 14:20 / dmf
Thorium 230 MDC	0.1	pCi/L				E907.0	12/10/09 14:20 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<2.7	pCi/L	U	2.7		E909.0M	01/13/10 15:43 / dm
Lead 210 precision (±)	1.6	pCi/L				E909.0M	01/13/10 15:43 / dm
Lead 210 MDC	2.8	pCi/L				E909.0M	01/13/10 15:43 / dm
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	12/11/09 11:11 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/11/09 11:11 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	12/11/09 11:11 / plj
Radium 226	<0.2	pCi/L	U	0.2		E903.0	12/15/09 14:56 / jah
Radium 226 precision (±)	0.09	pCi/L				E903.0	12/15/09 14:56 / jah
Radium 226 MDC	0.2	pCi/L				E903.0	12/15/09 14:56 / jah
Thorium 230	<0.06	pCi/L	U	0.06		E907.0	12/14/09 19:45 / dmf
Thorium 230 precision (±)	0.03	pCi/L				E907.0	12/14/09 19:45 / dmf
Thorium 230 MDC	0.06	pCi/L				E907.0	12/14/09 19:45 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-3.34	%				Calculation	12/04/09 09:49 / kbh
Anions	3.67	meq/L				Calculation	12/04/09 09:49 / kbh
Cations	3.43	meq/L				Calculation	12/04/09 09:49 / kbh
Solids, Total Dissolved Calculated	192	mg/L				Calculation	12/04/09 09:49 / kbh
TDS Balance (0.80 - 1.20)	1.39					Calculation	12/04/09 09:49 / kbh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09120215-001
 Client Sample ID: Miller 1

Report Date: 02/02/10
 Collection Date: 12/04/09
 Date Received: 12/07/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	241	mg/L		5		A2320 B	12/09/09 10:43 / dvg
Carbonate as CO ₃	ND	mg/L		5		A2320 B	12/09/09 10:43 / dvg
Bicarbonate as HCO ₃	294	mg/L		5		A2320 B	12/09/09 10:43 / dvg
Calcium	72	mg/L		1		E200.7	12/14/09 16:20 / cp
Chloride	6	mg/L		1		E300.0	12/09/09 22:48 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	12/08/09 11:51 / dvg
Magnesium	5	mg/L		1		E200.7	12/14/09 16:20 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	12/10/09 11:20 / jal
Nitrogen, Nitrate+Nitrite as N	1.1	mg/L		0.1		E353.2	12/11/09 11:17 / jal
Potassium	9	mg/L		1		E200.7	12/14/09 16:20 / cp
Silica	61.7	mg/L		0.2		E200.7	12/14/09 16:20 / cp
Sodium	21	mg/L		1		E200.7	12/14/09 16:20 / cp
Sulfate	10	mg/L		1		E300.0	12/09/09 22:48 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	477	umhos/cm		1		A2510 B	12/07/09 17:31 / lr
pH	7.75	s.u.		0.01		A4500-H B	12/07/09 17:31 / lr
Solids, Total Dissolved TDS @ 180 C	319	mg/L		10		A2540 C	12/08/09 16:31 / dvg
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	12/09/09 03:19 / ts
Arsenic	0.003	mg/L		0.001		E200.8	12/09/09 03:19 / ts
Barium	ND	mg/L		0.1		E200.8	12/09/09 03:19 / ts
Boron	ND	mg/L		0.1		E200.7	12/14/09 16:20 / cp
Cadmium	ND	mg/L		0.005		E200.8	12/09/09 03:19 / ts
Chromium	ND	mg/L		0.05		E200.8	12/09/09 03:19 / ts
Copper	ND	mg/L		0.01		E200.8	12/09/09 03:19 / ts
Iron	ND	mg/L		0.03		E200.7	12/14/09 16:20 / cp
Lead	ND	mg/L		0.001		E200.8	12/09/09 03:19 / ts
Manganese	ND	mg/L		0.01		E200.8	12/09/09 03:19 / ts
Mercury	ND	mg/L		0.001		E200.8	12/09/09 03:19 / ts
Molybdenum	ND	mg/L		0.1		E200.8	12/09/09 03:19 / ts
Nickel	ND	mg/L		0.05		E200.8	12/09/09 03:19 / ts
Selenium	0.002	mg/L		0.001		E200.8	12/09/09 03:19 / ts
Uranium	0.0150	mg/L		0.0003		E200.8	12/09/09 03:19 / ts
Vanadium	ND	mg/L		0.1		E200.8	12/09/09 03:19 / ts
Zinc	0.01	mg/L		0.01		E200.8	12/09/09 03:19 / ts
METALS - SUSPENDED							
Uranium	0.0142	mg/L		0.0003		E200.8	12/11/09 16:13 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09120215-001
 Client Sample ID: Miller 1

Report Date: 02/02/10
 Collection Date: 12/04/09
 Date Received: 12/07/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0M	01/04/10 09:45 / dm
Lead 210 precision (±)	0.4	pCi/L				E909.0M	01/04/10 09:45 / dm
Lead 210 MDC	0.7	pCi/L				E909.0M	01/04/10 09:45 / dm
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	12/29/09 14:44 / plj
Polonium 210 precision (±)	0.5	pCi/L				E912.0	12/29/09 14:44 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	12/29/09 14:44 / plj
Radium 226	<0.14	pCi/L	U	0.14		E903.0	12/16/09 01:08 / jah
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/16/09 01:08 / jah
Radium 226 MDC	0.14	pCi/L				E903.0	12/16/09 01:08 / jah
Thorium 230	<0.1	pCi/L	U	0.1		E907.0	12/17/09 13:31 / ep
Thorium 230 precision (±)	0.07	pCi/L				E907.0	12/17/09 13:31 / ep
Thorium 230 MDC	0.1	pCi/L				E907.0	12/17/09 13:31 / ep
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.6	pCi/L	U	1.6		E909.0M	01/06/10 10:15 / dm
Lead 210 precision (±)	0.9	pCi/L				E909.0M	01/06/10 10:15 / dm
Lead 210 MDC	1.6	pCi/L				E909.0M	01/06/10 10:15 / dm
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	12/29/09 10:10 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/29/09 10:10 / plj
Polonium 210 MDC	0.3	pCi/L				E912.0	12/29/09 10:10 / plj
Radium 226	0.1	pCi/L		0.09		E903.0	12/21/09 17:09 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/21/09 17:09 / trs
Radium 226 MDC	0.09	pCi/L				E903.0	12/21/09 17:09 / trs
Thorium 230	8.1	pCi/L		0.05		E907.0	12/18/09 17:19 / dmf
Thorium 230 precision (±)	0.9	pCi/L				E907.0	12/18/09 17:19 / dmf
Thorium 230 MDC	0.05	pCi/L				E907.0	12/18/09 17:19 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-1.18	%				Calculation	12/16/09 12:05 / kbh
Anions	5.30	meq/L				Calculation	12/16/09 12:05 / kbh
Cations	5.17	meq/L				Calculation	12/16/09 12:05 / kbh
Solids, Total Dissolved Calculated	351	mg/L				Calculation	12/16/09 12:05 / kbh
TDS Balance (0.80 - 1.20)	0.910					Calculation	12/16/09 12:05 / kbh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09120215-002
 Client Sample ID: BOW 2006-5

Report Date: 02/02/10
 Collection Date: 12/04/09
 Date Received: 12/07/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	381	mg/L		5		A2320 B	12/09/09 10:52 / dvg
Carbonate as CO3	ND	mg/L		5		A2320 B	12/09/09 10:52 / dvg
Bicarbonate as HCO3	464	mg/L		5		A2320 B	12/09/09 10:52 / dvg
Calcium	101	mg/L		1		E200.7	12/14/09 16:24 / cp
Chloride	13	mg/L		1		E300.0	12/09/09 23:53 / ljl
Fluoride	1.2	mg/L		0.1		A4500-F C	12/08/09 12:05 / dvg
Magnesium	14	mg/L		1		E200.7	12/14/09 16:24 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/10/09 11:22 / jal
Nitrogen, Nitrate+Nitrite as N	2.1	mg/L		0.1		E353.2	12/11/09 11:20 / jal
Potassium	12	mg/L		1		E200.7	12/14/09 16:24 / cp
Silica	52.5	mg/L		0.2		E200.7	12/14/09 16:24 / cp
Sodium	35	mg/L		1		E200.7	12/14/09 16:24 / cp
Sulfate	25	mg/L		1		E300.0	12/09/09 23:53 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	735	umhos/cm		1		A2510 B	12/08/09 14:10 / ljl
pH	7.78	s.u.		0.01		A4500-H B	12/08/09 14:10 / ljl
Solids, Total Dissolved TDS @ 180 C	470	mg/L		10		A2540 C	12/08/09 16:31 / dvg
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	12/09/09 03:26 / ts
Arsenic	0.005	mg/L		0.001		E200.8	12/09/09 03:26 / ts
Barium	0.2	mg/L		0.1		E200.8	12/09/09 03:26 / ts
Boron	ND	mg/L		0.1		E200.7	12/14/09 16:24 / cp
Cadmium	ND	mg/L		0.005		E200.8	12/09/09 03:26 / ts
Chromium	ND	mg/L		0.05		E200.8	12/09/09 03:26 / ts
Copper	ND	mg/L		0.01		E200.8	12/09/09 03:26 / ts
Iron	ND	mg/L		0.03		E200.7	12/14/09 16:24 / cp
Lead	ND	mg/L		0.001		E200.8	12/09/09 03:26 / ts
Manganese	0.06	mg/L		0.01		E200.8	12/09/09 03:26 / ts
Mercury	ND	mg/L		0.001		E200.8	12/09/09 03:26 / ts
Molybdenum	ND	mg/L		0.1		E200.8	12/09/09 03:26 / ts
Nickel	ND	mg/L		0.05		E200.8	12/09/09 03:26 / ts
Selenium	ND	mg/L		0.001		E200.8	12/09/09 03:26 / ts
Uranium	0.0242	mg/L		0.0003		E200.8	12/09/09 03:26 / ts
Vanadium	ND	mg/L		0.1		E200.8	12/09/09 03:26 / ts
Zinc	1.07	mg/L		0.01		E200.8	12/09/09 03:26 / ts
METALS - SUSPENDED							
Uranium	0.0005	mg/L		0.0003		E200.8	12/11/09 16:17 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09120215-002
 Client Sample ID: BOW 2006-5

Report Date: 02/02/10
 Collection Date: 12/04/09
 Date Received: 12/07/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0M	01/04/10 09:45 / dm
Lead 210 precision (±)	0.4	pCi/L				E909.0M	01/04/10 09:45 / dm
Lead 210 MDC	0.7	pCi/L				E909.0M	01/04/10 09:45 / dm
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/29/09 14:44 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/29/09 14:44 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	12/29/09 14:44 / plj
Radium 226	<0.13	pCi/L	U	0.13		E903.0	12/16/09 01:08 / jah
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/16/09 01:08 / jah
Radium 226 MDC	0.13	pCi/L				E903.0	12/16/09 01:08 / jah
Thorium 230	<0.1	pCi/L	U	0.1		E907.0	12/17/09 13:31 / ep
Thorium 230 precision (±)	0.1	pCi/L				E907.0	12/17/09 13:31 / ep
Thorium 230 MDC	0.1	pCi/L				E907.0	12/17/09 13:31 / ep
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.6	pCi/L	U	1.6		E909.0M	01/06/10 10:15 / dm
Lead 210 precision (±)	0.9	pCi/L				E909.0M	01/06/10 10:15 / dm
Lead 210 MDC	1.6	pCi/L				E909.0M	01/06/10 10:15 / dm
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	12/29/09 10:10 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/29/09 10:10 / plj
Polonium 210 MDC	0.3	pCi/L				E912.0	12/29/09 10:10 / plj
Radium 226	<0.08	pCi/L	U	0.08		E903.0	12/21/09 17:09 / trs
Radium 226 precision (±)	0.04	pCi/L				E903.0	12/21/09 17:09 / trs
Radium 226 MDC	0.08	pCi/L				E903.0	12/21/09 17:09 / trs
Thorium 230	0.1	pCi/L		0.03		E907.0	12/18/09 17:19 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E907.0	12/18/09 17:19 / dmf
Thorium 230 MDC	0.03	pCi/L				E907.0	12/18/09 17:19 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-3.86	%				Calculation	12/16/09 12:05 / kbh
Anions	8.71	meq/L				Calculation	12/16/09 12:05 / kbh
Cations	8.06	meq/L				Calculation	12/16/09 12:05 / kbh
Solids, Total Dissolved Calculated	506	mg/L				Calculation	12/16/09 12:05 / kbh
TDS Balance (0.80 - 1.20)	0.930					Calculation	12/16/09 12:05 / kbh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09120215-003
 Client Sample ID: BOW 2006-6

Report Date: 02/02/10
 Collection Date: 12/04/09
 Date Received: 12/07/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	171	mg/L		5		A2320 B	12/09/09 11:00 / dvg
Carbonate as CO3	ND	mg/L		5		A2320 B	12/09/09 11:00 / dvg
Bicarbonate as HCO3	209	mg/L		5		A2320 B	12/09/09 11:00 / dvg
Calcium	40	mg/L		1		E200.7	12/14/09 16:28 / cp
Chloride	4	mg/L		1		E300.0	12/10/09 00:10 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	12/08/09 12:08 / dvg
Magnesium	5	mg/L		1		E200.7	12/14/09 16:28 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/10/09 11:29 / jal
Nitrogen, Nitrate+Nitrite as N	2.5	mg/L		0.1		E353.2	12/11/09 11:22 / jal
Potassium	7	mg/L		1		E200.7	12/14/09 16:28 / cp
Silica	61.6	mg/L		0.2		E200.7	12/14/09 16:28 / cp
Sodium	25	mg/L		1		E200.7	12/14/09 16:28 / cp
Sulfate	11	mg/L		1		E300.0	12/10/09 00:10 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	347	umhos/cm		1		A2510 B	12/08/09 14:14 / ljl
pH	7.94	s.u.		0.01		A4500-H B	12/08/09 14:14 / ljl
Solids, Total Dissolved TDS @ 180 C	253	mg/L		10		A2540 C	12/08/09 16:31 / dvg
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	12/09/09 03:33 / ts
Arsenic	0.006	mg/L		0.001		E200.8	12/09/09 03:33 / ts
Barium	0.2	mg/L		0.1		E200.8	12/09/09 03:33 / ts
Boron	ND	mg/L		0.1		E200.7	12/14/09 16:28 / cp
Cadmium	ND	mg/L		0.005		E200.8	12/09/09 03:33 / ts
Chromium	ND	mg/L		0.05		E200.8	12/09/09 03:33 / ts
Copper	0.01	mg/L		0.01		E200.8	12/09/09 03:33 / ts
Iron	ND	mg/L		0.03		E200.7	12/14/09 16:28 / cp
Lead	0.002	mg/L		0.001		E200.8	12/09/09 03:33 / ts
Manganese	ND	mg/L		0.01		E200.8	12/09/09 03:33 / ts
Mercury	ND	mg/L		0.001		E200.8	12/09/09 03:33 / ts
Molybdenum	ND	mg/L		0.1		E200.8	12/09/09 03:33 / ts
Nickel	ND	mg/L		0.05		E200.8	12/09/09 03:33 / ts
Selenium	0.002	mg/L		0.001		E200.8	12/09/09 03:33 / ts
Uranium	0.0086	mg/L		0.0003		E200.8	12/09/09 03:33 / ts
Vanadium	ND	mg/L		0.1		E200.8	12/09/09 03:33 / ts
Zinc	0.70	mg/L		0.01		E200.8	12/09/09 03:33 / ts
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/11/09 16:21 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09120215-003
 Client Sample ID: BOW 2006-6

Report Date: 02/02/10
 Collection Date: 12/04/09
 Date Received: 12/07/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0M	01/04/10 09:45 / dm
Lead 210 precision (±)	0.4	pCi/L				E909.0M	01/04/10 09:45 / dm
Lead 210 MDC	0.7	pCi/L				E909.0M	01/04/10 09:45 / dm
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	12/29/09 14:44 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/29/09 14:44 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	12/29/09 14:44 / plj
Radium 226	<0.14	pCi/L	U	0.14		E903.0	12/16/09 01:08 / jah
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/16/09 01:08 / jah
Radium 226 MDC	0.14	pCi/L				E903.0	12/16/09 01:08 / jah
Thorium 230	<0.1	pCi/L	U	0.1		E907.0	12/17/09 13:31 / ep
Thorium 230 precision (±)	0.07	pCi/L				E907.0	12/17/09 13:31 / ep
Thorium 230 MDC	0.1	pCi/L				E907.0	12/17/09 13:31 / ep
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.6	pCi/L	U	1.6		E909.0M	01/06/10 10:15 / dm
Lead 210 precision (±)	0.9	pCi/L				E909.0M	01/06/10 10:15 / dm
Lead 210 MDC	1.6	pCi/L				E909.0M	01/06/10 10:15 / dm
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	12/29/09 10:10 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/29/09 10:10 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	12/29/09 10:10 / plj
Radium 226	0.1	pCi/L			0.08	E903.0	12/21/09 17:09 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/21/09 17:09 / trs
Radium 226 MDC	0.08	pCi/L				E903.0	12/21/09 17:09 / trs
Thorium 230	0.06	pCi/L			0.03	E907.0	12/18/09 17:19 / dmf
Thorium 230 precision (±)	0.03	pCi/L				E907.0	12/18/09 17:19 / dmf
Thorium 230 MDC	0.03	pCi/L				E907.0	12/18/09 17:19 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-2.88	%				Calculation	12/16/09 12:05 / kbh
Anions	3.95	meq/L				Calculation	12/16/09 12:05 / kbh
Cations	3.73	meq/L				Calculation	12/16/09 12:05 / kbh
Solids, Total Dissolved Calculated	285	mg/L				Calculation	12/16/09 12:05 / kbh
TDS Balance (0.80 - 1.20)	0.890					Calculation	12/16/09 12:05 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09120215-004
 Client Sample ID: BOW 2006-7

Report Date: 02/02/10
 Collection Date: 12/04/09
 Date Received: 12/07/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	163	mg/L		5		A2320 B	12/09/09 11:27 / dvg
Carbonate as CO3	ND	mg/L		5		A2320 B	12/09/09 11:27 / dvg
Bicarbonate as HCO3	199	mg/L		5		A2320 B	12/09/09 11:27 / dvg
Calcium	33	mg/L		1		E200.7	12/14/09 16:44 / cp
Chloride	16	mg/L		1		E300.0	12/10/09 00:26 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	12/08/09 12:11 / dvg
Magnesium	3	mg/L		1		E200.7	12/14/09 16:44 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/10/09 11:31 / jal
Nitrogen, Nitrate+Nitrite as N	1.2	mg/L		0.1		E353.2	12/11/09 11:25 / jal
Potassium	8	mg/L		1		E200.7	12/14/09 16:44 / cp
Silica	66.5	mg/L		0.2		E200.7	12/14/09 16:44 / cp
Sodium	42	mg/L		1		E200.7	12/14/09 16:44 / cp
Sulfate	11	mg/L		1		E300.0	12/10/09 00:26 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	375	umhos/cm		1		A2510 B	12/08/09 14:16 / ljl
pH	8.00	s.u.		0.01		A4500-H B	12/08/09 14:16 / ljl
Solids, Total Dissolved TDS @ 180 C	276	mg/L		10		A2540 C	12/08/09 16:32 / dvg
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	12/09/09 03:40 / ts
Arsenic	0.004	mg/L		0.001		E200.8	12/09/09 03:40 / ts
Barium	0.1	mg/L		0.1		E200.8	12/09/09 03:40 / ts
Boron	ND	mg/L		0.1		E200.7	12/14/09 16:44 / cp
Cadmium	ND	mg/L		0.005		E200.8	12/09/09 03:40 / ts
Chromium	ND	mg/L		0.05		E200.8	12/09/09 03:40 / ts
Copper	ND	mg/L		0.01		E200.8	12/09/09 03:40 / ts
Iron	ND	mg/L		0.03		E200.7	12/14/09 16:44 / cp
Lead	0.001	mg/L		0.001		E200.8	12/09/09 03:40 / ts
Manganese	ND	mg/L		0.01		E200.8	12/09/09 03:40 / ts
Mercury	ND	mg/L		0.001		E200.8	12/09/09 03:40 / ts
Molybdenum	ND	mg/L		0.1		E200.8	12/09/09 03:40 / ts
Nickel	ND	mg/L		0.05		E200.8	12/09/09 03:40 / ts
Selenium	0.003	mg/L		0.001		E200.8	12/09/09 03:40 / ts
Uranium	0.0103	mg/L		0.0003		E200.8	12/09/09 03:40 / ts
Vanadium	ND	mg/L		0.1		E200.8	12/09/09 03:40 / ts
Zinc	0.36	mg/L		0.01		E200.8	12/09/09 03:40 / ts
METALS - SUSPENDED							
Uranium	0.0004	mg/L		0.0003		E200.8	12/11/09 16:25 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09120215-004
 Client Sample ID: BOW 2006-7

Report Date: 02/02/10
 Collection Date: 12/04/09
 Date Received: 12/07/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0M	01/04/10 09:45 / dm
Lead 210 precision (±)	0.4	pCi/L				E909.0M	01/04/10 09:45 / dm
Lead 210 MDC	0.7	pCi/L				E909.0M	01/04/10 09:45 / dm
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	12/29/09 14:44 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/29/09 14:44 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	12/29/09 14:44 / plj
Radium 226	<0.13	pCi/L	U	0.13		E903.0	12/16/09 01:08 / jah
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/16/09 01:08 / jah
Radium 226 MDC	0.13	pCi/L				E903.0	12/16/09 01:08 / jah
Thorium 230	<0.1	pCi/L	U	0.1		E907.0	12/17/09 13:31 / ep
Thorium 230 precision (±)	0.06	pCi/L				E907.0	12/17/09 13:31 / ep
Thorium 230 MDC	0.1	pCi/L				E907.0	12/17/09 13:31 / ep
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.6	pCi/L	U	1.6		E909.0M	01/06/10 10:15 / dm
Lead 210 precision (±)	0.9	pCi/L				E909.0M	01/06/10 10:15 / dm
Lead 210 MDC	1.6	pCi/L				E909.0M	01/06/10 10:15 / dm
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	12/29/09 10:10 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/29/09 10:10 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	12/29/09 10:10 / plj
Radium 226	<0.1	pCi/L	U	0.1		E903.0	12/21/09 23:40 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	12/21/09 23:40 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	12/21/09 23:40 / trs
Thorium 230	0.06	pCi/L		0.05		E907.0	12/20/09 14:33 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E907.0	12/20/09 14:33 / dmf
Thorium 230 MDC	0.05	pCi/L				E907.0	12/20/09 14:33 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-1.35	%				Calculation	12/16/09 12:06 / kbh
Anions	4.05	meq/L				Calculation	12/16/09 12:06 / kbh
Cations	3.94	meq/L				Calculation	12/16/09 12:06 / kbh
Solids, Total Dissolved Calculated	301	mg/L				Calculation	12/16/09 12:06 / kbh
TDS Balance (0.80 - 1.20)	0.920					Calculation	12/16/09 12:06 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples
 Lab ID: C09120699-001
 Client Sample ID: Miller 1

Report Date: 02/22/10
 Collection Date: 12/18/09
 Date Received: 12/21/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	243	mg/L		5		A2320 B	12/22/09 12:49 / dvj
Carbonate as CO3	ND	mg/L		5		A2320 B	12/22/09 12:49 / dvj
Bicarbonate as HCO3	296	mg/L		5		A2320 B	12/22/09 12:49 / dvj
Calcium	72	mg/L		1		E200.7	12/31/09 14:05 / cp
Chloride	6	mg/L		1		E300.0	12/23/09 21:35 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	12/22/09 10:24 / dvj
Magnesium	6	mg/L		1		E200.7	12/31/09 14:05 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/30/09 11:28 / jal
Nitrogen, Nitrate+Nitrite as N	2.5	mg/L		0.1		E353.2	12/29/09 13:52 / jal
Potassium	9	mg/L		1		E200.7	12/31/09 14:05 / cp
Silica	65.4	mg/L		0.2		E200.7	12/31/09 14:05 / cp
Sodium	19	mg/L		1		E200.7	12/31/09 14:05 / cp
Sulfate	10	mg/L		1		E300.0	12/23/09 21:35 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	475	umhos/cm		1		A2510 B	12/22/09 10:55 / lr
pH	7.68	s.u.		0.01		A4500-H B	12/22/09 10:55 / lr
Solids, Total Dissolved TDS @ 180 C	312	mg/L		10		A2540 C	12/22/09 12:00 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	12/31/09 14:05 / cp
Arsenic	0.003	mg/L		0.001		E200.8	12/22/09 13:32 / sml
Barium	0.1	mg/L		0.1		E200.8	12/22/09 13:32 / sml
Boron	ND	mg/L		0.1		E200.8	12/24/09 00:05 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/22/09 13:32 / sml
Chromium	ND	mg/L		0.05		E200.8	12/22/09 13:32 / sml
Copper	ND	mg/L		0.01		E200.8	12/22/09 13:32 / sml
Iron	ND	mg/L		0.03		E200.8	12/22/09 13:32 / sml
Lead	ND	mg/L		0.001		E200.8	12/22/09 13:32 / sml
Manganese	ND	mg/L		0.01		E200.8	12/22/09 13:32 / sml
Mercury	ND	mg/L		0.001		E200.8	12/22/09 13:32 / sml
Molybdenum	ND	mg/L		0.1		E200.8	12/22/09 13:32 / sml
Nickel	ND	mg/L		0.05		E200.8	12/22/09 13:32 / sml
Selenium	0.003	mg/L		0.001		E200.8	12/22/09 13:32 / sml
Uranium	0.0168	mg/L		0.0003		E200.8	12/22/09 13:32 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/22/09 13:32 / sml
Zinc	ND	mg/L		0.01		E200.8	12/24/09 00:05 / sml
METALS - SUSPENDED							
Uranium	0.0009	mg/L		0.0003		E200.8	01/05/10 00:04 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples
 Lab ID: C09120699-001
 Client Sample ID: Miller 1

Report Date: 02/22/10
 Collection Date: 12/18/09
 Date Received: 12/21/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<1.2	pCi/L	U	1.2		E909.0M	01/15/10 09:00 / dm
Lead 210 precision (±)	0.7	pCi/L				E909.0M	01/15/10 09:00 / dm
Lead 210 MDC	1.2	pCi/L				E909.0M	01/15/10 09:00 / dm
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/29/09 12:19 / plj
Polonium 210 precision (±)	0.5	pCi/L				E912.0	12/29/09 12:19 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	12/29/09 12:19 / plj
Radium 226	<0.19	pCi/L	U	0.19		E903.0	01/04/10 14:53 / jah
Radium 226 precision (±)	0.08	pCi/L				E903.0	01/04/10 14:53 / jah
Radium 226 MDC	0.19	pCi/L				E903.0	01/04/10 14:53 / jah
Thorium 230	<0.2	pCi/L	U	0.2		E907.0	12/30/09 13:45 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E907.0	12/30/09 13:45 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	12/30/09 13:45 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0M	02/09/10 16:14 / dm
Lead 210 precision (±)	0.3	pCi/L				E909.0M	02/09/10 16:14 / dm
Lead 210 MDC	0.5	pCi/L				E909.0M	02/09/10 16:14 / dm
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	01/04/10 09:49 / plj
Polonium 210 precision (±)	0.09	pCi/L				E912.0	01/04/10 09:49 / plj
Polonium 210 MDC	0.2	pCi/L				E912.0	01/04/10 09:49 / plj
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/04/10 23:58 / jah
Radium 226 precision (±)	0.09	pCi/L				E903.0	01/04/10 23:58 / jah
Radium 226 MDC	0.1	pCi/L				E903.0	01/04/10 23:58 / jah
Thorium 230	<0.07	pCi/L	U	0.07		E907.0	01/05/10 15:10 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E907.0	01/05/10 15:10 / dmf
Thorium 230 MDC	0.07	pCi/L				E907.0	01/05/10 15:10 / dmf
DATA QUALITY							
A/C Balance (± 5)	-3.32	%				Calculation	01/04/10 09:58 / kbh
Anions	5.43	meq/L				Calculation	01/04/10 09:58 / kbh
Cations	5.08	meq/L				Calculation	01/04/10 09:58 / kbh
Solids, Total Dissolved Calculated	360	mg/L				Calculation	01/04/10 09:58 / kbh
TDS Balance (0.80 - 1.20)	0.870					Calculation	01/04/10 09:58 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples
 Lab ID: C09120699-002
 Client Sample ID: BOW 2006-5

Report Date: 02/22/10
 Collection Date: 12/18/09
 Date Received: 12/21/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	383	mg/L		5		A2320 B	12/22/09 12:58 / dvg
Carbonate as CO3	ND	mg/L		5		A2320 B	12/22/09 12:58 / dvg
Bicarbonate as HCO3	467	mg/L		5		A2320 B	12/22/09 12:58 / dvg
Calcium	97	mg/L		1		E200.7	12/31/09 14:17 / cp
Chloride	13	mg/L		1		E300.0	01/08/10 17:05 / lji
Fluoride	1.3	mg/L		0.1		A4500-F C	12/22/09 10:27 / dvg
Magnesium	14	mg/L		1		E200.7	01/05/10 13:52 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/30/09 11:30 / jal
Nitrogen, Nitrate+Nitrite as N	0.1	mg/L		0.1		E353.2	12/29/09 13:54 / jal
Potassium	12	mg/L		1		E200.7	12/31/09 14:17 / cp
Silica	55.6	mg/L		0.2		E200.7	12/31/09 14:17 / cp
Sodium	31	mg/L		1		E200.7	12/31/09 14:17 / cp
Sulfate	23	mg/L		1		E300.0	01/08/10 17:05 / lji
PHYSICAL PROPERTIES							
Conductivity @ 25 C	728	umhos/cm		1		A2510 B	12/22/09 11:01 / lr
pH	7.86	s.u.		0.01		A4500-H B	12/22/09 11:01 / lr
Solids, Total Dissolved TDS @ 180 C	442	mg/L		10		A2540 C	12/22/09 12:00 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	12/31/09 14:17 / cp
Arsenic	0.006	mg/L		0.001		E200.8	12/22/09 13:37 / sml
Barium	0.2	mg/L		0.1		E200.8	12/22/09 13:37 / sml
Boron	ND	mg/L		0.1		E200.8	12/24/09 00:10 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/22/09 13:37 / sml
Chromium	ND	mg/L		0.05		E200.8	12/22/09 13:37 / sml
Copper	ND	mg/L		0.01		E200.8	12/22/09 13:37 / sml
Iron	ND	mg/L		0.03		E200.8	12/22/09 13:37 / sml
Lead	0.003	mg/L		0.001		E200.8	12/22/09 13:37 / sml
Manganese	0.08	mg/L		0.01		E200.8	12/22/09 13:37 / sml
Mercury	ND	mg/L		0.001		E200.8	12/22/09 13:37 / sml
Molybdenum	ND	mg/L		0.1		E200.8	12/22/09 13:37 / sml
Nickel	ND	mg/L		0.05		E200.8	12/22/09 13:37 / sml
Selenium	0.001	mg/L		0.001		E200.8	12/22/09 13:37 / sml
Uranium	0.0264	mg/L		0.0003		E200.8	12/22/09 13:37 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/22/09 13:37 / sml
Zinc	1.22	mg/L		0.01		E200.8	12/24/09 00:10 / sml
METALS - SUSPENDED							
Uranium	0.0005	mg/L		0.0003		E200.8	01/05/10 00:08 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples
 Lab ID: C09120699-002
 Client Sample ID: BOW 2006-5

Report Date: 02/22/10
 Collection Date: 12/18/09
 Date Received: 12/21/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<1.2	pCi/L	U	1.2		E909.0M	01/15/10 09:00 / dm
Lead 210 precision (±)	0.7	pCi/L				E909.0M	01/15/10 09:00 / dm
Lead 210 MDC	1.2	pCi/L				E909.0M	01/15/10 09:00 / dm
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	12/29/09 12:19 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/29/09 12:19 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	12/29/09 12:19 / plj
Radium 226	<0.18	pCi/L	U	0.18		E903.0	01/04/10 14:53 / jah
Radium 226 precision (±)	0.12	pCi/L				E903.0	01/04/10 14:53 / jah
Radium 226 MDC	0.18	pCi/L				E903.0	01/04/10 14:53 / jah
Thorium 230	<0.2	pCi/L	U	0.2		E907.0	12/30/09 13:45 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E907.0	12/30/09 13:45 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	12/30/09 13:45 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0M	02/09/10 16:14 / dm
Lead 210 precision (±)	0.3	pCi/L				E909.0M	02/09/10 16:14 / dm
Lead 210 MDC	0.5	pCi/L				E909.0M	02/09/10 16:14 / dm
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	01/04/10 09:49 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	01/04/10 09:49 / plj
Polonium 210 MDC	0.3	pCi/L				E912.0	01/04/10 09:49 / plj
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/04/10 23:58 / jah
Radium 226 precision (±)	0.08	pCi/L				E903.0	01/04/10 23:58 / jah
Radium 226 MDC	0.1	pCi/L				E903.0	01/04/10 23:58 / jah
Thorium 230	<0.06	pCi/L	U	0.06		E907.0	01/05/10 15:10 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E907.0	01/05/10 15:10 / dmf
Thorium 230 MDC	0.06	pCi/L				E907.0	01/05/10 15:10 / dmf
DATA QUALITY							
A/C Balance (± 5)	-5.62	%				Calculation	01/12/10 09:59 / kbh
Anions	8.58	meq/L				Calculation	01/12/10 09:59 / kbh
Cations	7.67	meq/L				Calculation	01/12/10 09:59 / kbh
Solids, Total Dissolved Calculated	493	mg/L				Calculation	01/12/10 09:59 / kbh
TDS Balance (0.80 - 1.20)	0.900					Calculation	01/12/10 09:59 / kbh

- The Anion / Cation balance was confirmed by re-analysis.

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
Project: Three Crow Butte Baseline Samples
Lab ID: C09120699-003
Client Sample ID: BOW 2006-6

Report Date: 02/22/10
Collection Date: 12/18/09
Date Received: 12/21/09
Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	173	mg/L		5		A2320 B	12/22/09 13:06 / dvg
Carbonate as CO ₃	ND	mg/L		5		A2320 B	12/22/09 13:06 / dvg
Bicarbonate as HCO ₃	211	mg/L		5		A2320 B	12/22/09 13:06 / dvg
Calcium	46	mg/L		1		E200.7	12/31/09 14:25 / cp
Chloride	4	mg/L		1		E300.0	12/23/09 22:41 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	12/22/09 10:30 / dvg
Magnesium	6	mg/L		1		E200.7	12/31/09 14:25 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	12/30/09 11:38 / jal
Nitrogen, Nitrate+Nitrite as N	1.8	mg/L		0.1		E353.2	12/29/09 13:57 / jal
Potassium	6	mg/L		1		E200.7	12/31/09 14:25 / cp
Silica	64.7	mg/L		0.2		E200.7	12/31/09 14:25 / cp
Sodium	16	mg/L		1		E200.7	12/31/09 14:25 / cp
Sulfate	9	mg/L		1		E300.0	12/23/09 22:41 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	345	umhos/cm		1		A2510 B	12/22/09 11:04 / lr
pH	7.96	s.u.		0.01		A4500-H B	12/22/09 11:04 / lr
Solids, Total Dissolved TDS @ 180 C	221	mg/L		10		A2540 C	12/22/09 12:00 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	12/31/09 14:25 / cp
Arsenic	0.005	mg/L		0.001		E200.8	12/22/09 14:05 / sml
Barium	0.2	mg/L		0.1		E200.8	12/22/09 14:05 / sml
Boron	ND	mg/L		0.1		E200.8	12/24/09 00:15 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/22/09 14:05 / sml
Chromium	ND	mg/L		0.05		E200.8	12/22/09 14:05 / sml
Copper	ND	mg/L		0.01		E200.8	12/22/09 14:05 / sml
Iron	0.04	mg/L		0.03		E200.8	12/22/09 14:05 / sml
Lead	0.003	mg/L		0.001		E200.8	12/22/09 14:05 / sml
Manganese	ND	mg/L		0.01		E200.8	12/22/09 14:05 / sml
Mercury	ND	mg/L		0.001		E200.8	12/22/09 14:05 / sml
Molybdenum	ND	mg/L		0.1		E200.8	12/22/09 14:05 / sml
Nickel	ND	mg/L		0.05		E200.8	12/22/09 14:05 / sml
Selenium	0.003	mg/L		0.001		E200.8	12/22/09 14:05 / sml
Uranium	0.0097	mg/L		0.0003		E200.8	12/22/09 14:05 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/22/09 14:05 / sml
Zinc	0.64	mg/L		0.01		E200.8	12/24/09 00:15 / sml
METALS - SUSPENDED							
Uranium	0.0011	mg/L		0.0003		E200.8	01/05/10 00:12 / ts

Report Definitions: RL - Analyte reporting limit.
QCL - Quality control limit.

MCL - Maximum contaminant level.
ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples
 Lab ID: C09120699-003
 Client Sample ID: BOW 2006-6

Report Date: 02/22/10
 Collection Date: 12/18/09
 Date Received: 12/21/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	1.3	pCi/L		1.2		E909.0M	01/15/10 09:00 / dm
Lead 210 precision (±)	0.8	pCi/L				E909.0M	01/15/10 09:00 / dm
Lead 210 MDC	1.2	pCi/L				E909.0M	01/15/10 09:00 / dm
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	12/29/09 12:19 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/29/09 12:19 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	12/29/09 12:19 / plj
Radium 226	<0.20	pCi/L	U	0.20		E903.0	01/04/10 14:53 / jah
Radium 226 precision (±)	0.12	pCi/L				E903.0	01/04/10 14:53 / jah
Radium 226 MDC	0.20	pCi/L				E903.0	01/04/10 14:53 / jah
Thorium 230	<0.1	pCi/L	U	0.1		E907.0	12/30/09 13:45 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E907.0	12/30/09 13:45 / dmf
Thorium 230 MDC	0.1	pCi/L				E907.0	12/30/09 13:45 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0M	02/09/10 16:14 / dm
Lead 210 precision (±)	0.3	pCi/L				E909.0M	02/09/10 16:14 / dm
Lead 210 MDC	0.5	pCi/L				E909.0M	02/09/10 16:14 / dm
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	01/04/10 09:49 / plj
Polonium 210 precision (±)	0.1	pCi/L				E912.0	01/04/10 09:49 / plj
Polonium 210 MDC	0.3	pCi/L				E912.0	01/04/10 09:49 / plj
Radium 226	0.2	pCi/L		0.1		E903.0	01/04/10 23:58 / jah
Radium 226 precision (±)	0.1	pCi/L				E903.0	01/04/10 23:58 / jah
Radium 226 MDC	0.1	pCi/L				E903.0	01/04/10 23:58 / jah
Thorium 230	0.2	pCi/L		0.05		E907.0	01/05/10 15:10 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E907.0	01/05/10 15:10 / dmf
Thorium 230 MDC	0.05	pCi/L				E907.0	01/05/10 15:10 / dmf
DATA QUALITY							
A/C Balance (± 5)	-3.84	%				Calculation	01/04/10 09:59 / kbh
Anions	3.92	meq/L				Calculation	01/04/10 09:59 / kbh
Cations	3.63	meq/L				Calculation	01/04/10 09:59 / kbh
Solids, Total Dissolved Calculated	281	mg/L				Calculation	01/04/10 09:59 / kbh
TDS Balance (0.80 - 1.20)	0.790					Calculation	01/04/10 09:59 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples
 Lab ID: C09120699-004
 Client Sample ID: BOW 2006-7

Report Date: 02/22/10
 Collection Date: 12/18/09
 Date Received: 12/21/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	168	mg/L		5		A2320 B	12/22/09 13:14 / dvg
Carbonate as CO3	ND	mg/L		5		A2320 B	12/22/09 13:14 / dvg
Bicarbonate as HCO3	205	mg/L		5		A2320 B	12/22/09 13:14 / dvg
Calcium	33	mg/L		1		E200.7	12/31/09 14:29 / cp
Chloride	9	mg/L		1		E300.0	01/08/10 17:20 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	12/22/09 10:33 / dvg
Magnesium	3	mg/L		1		E200.7	12/31/09 14:29 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/30/09 11:40 / jal
Nitrogen, Nitrate+Nitrite as N	1.2	mg/L		0.1		E353.2	12/29/09 13:59 / jal
Potassium	8	mg/L		1		E200.7	12/31/09 14:29 / cp
Silica	72.2	mg/L		0.2		E200.7	12/31/09 14:29 / cp
Sodium	33	mg/L		1		E200.7	01/05/10 14:00 / cp
Sulfate	11	mg/L		1		E300.0	01/08/10 17:20 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	351	umhos/cm		1		A2510 B	12/22/09 11:07 / lr
pH	7.96	s.u.		0.01		A4500-H B	12/22/09 11:07 / lr
Solids, Total Dissolved TDS @ 180 C	229	mg/L		10		A2540 C	12/22/09 12:01 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	12/31/09 14:29 / cp
Arsenic	0.005	mg/L		0.001		E200.8	12/22/09 14:11 / sml
Barium	0.2	mg/L		0.1		E200.8	12/22/09 14:11 / sml
Boron	ND	mg/L		0.1		E200.8	12/24/09 00:20 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/22/09 14:11 / sml
Chromium	ND	mg/L		0.05		E200.8	12/22/09 14:11 / sml
Copper	ND	mg/L		0.01		E200.8	12/22/09 14:11 / sml
Iron	ND	mg/L		0.03		E200.8	12/22/09 14:11 / sml
Lead	0.001	mg/L		0.001		E200.8	12/22/09 14:11 / sml
Manganese	ND	mg/L		0.01		E200.8	12/22/09 14:11 / sml
Mercury	ND	mg/L		0.001		E200.8	12/22/09 14:11 / sml
Molybdenum	ND	mg/L		0.1		E200.8	12/22/09 14:11 / sml
Nickel	ND	mg/L		0.05		E200.8	12/22/09 14:11 / sml
Selenium	0.003	mg/L		0.001		E200.8	12/22/09 14:11 / sml
Uranium	0.0122	mg/L		0.0003		E200.8	12/22/09 14:11 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/22/09 14:11 / sml
Zinc	0.30	mg/L		0.01		E200.8	12/24/09 00:20 / sml
METALS - SUSPENDED							
Uranium	0.0009	mg/L		0.0003		E200.8	01/05/10 00:33 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples
 Lab ID: C09120699-004
 Client Sample ID: BOW 2006-7

Report Date: 02/22/10
 Collection Date: 12/18/09
 Date Received: 12/21/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<1.2	pCi/L	U	1.2		E909.0M	01/15/10 09:00 / dm
Lead 210 precision (±)	0.7	pCi/L				E909.0M	01/15/10 09:00 / dm
Lead 210 MDC	1.2	pCi/L				E909.0M	01/15/10 09:00 / dm
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	12/29/09 12:19 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/29/09 12:19 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	12/29/09 12:19 / plj
Radium 226	<0.18	pCi/L	U	0.18		E903.0	01/04/10 14:53 / jah
Radium 226 precision (±)	0.11	pCi/L				E903.0	01/04/10 14:53 / jah
Radium 226 MDC	0.18	pCi/L				E903.0	01/04/10 14:53 / jah
Thorium 230	<0.2	pCi/L	U	0.2		E907.0	12/30/09 13:45 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E907.0	12/30/09 13:45 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	12/30/09 13:45 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0M	02/09/10 16:14 / dm
Lead 210 precision (±)	0.3	pCi/L				E909.0M	02/09/10 16:14 / dm
Lead 210 MDC	0.5	pCi/L				E909.0M	02/09/10 16:14 / dm
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	01/04/10 09:49 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	01/04/10 09:49 / plj
Polonium 210 MDC	0.3	pCi/L				E912.0	01/04/10 09:49 / plj
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/04/10 23:58 / jah
Radium 226 precision (±)	0.08	pCi/L				E903.0	01/04/10 23:58 / jah
Radium 226 MDC	0.1	pCi/L				E903.0	01/04/10 23:58 / jah
Thorium 230	<0.08	pCi/L	U	0.08		E907.0	01/05/10 15:10 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E907.0	01/05/10 15:10 / dmf
Thorium 230 MDC	0.08	pCi/L				E907.0	01/05/10 15:10 / dmf
DATA QUALITY							
A/C Balance (± 5)	-5.53	%				Calculation	01/12/10 10:05 / kbh
Anions	3.96	meq/L				Calculation	01/12/10 10:05 / kbh
Cations	3.55	meq/L				Calculation	01/12/10 10:05 / kbh
Solids, Total Dissolved Calculated	295	mg/L				Calculation	01/12/10 10:05 / kbh
TDS Balance (0.80 - 1.20)	0.780					Calculation	01/12/10 10:05 / kbh

- The Anion / Cation balance was confirmed by re-analysis.

Report: RL - Analyte reporting limit.
 Definitions: QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



ANALYTICAL SUMMARY REPORT

February 03, 2010

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C09120215 Quote ID: C1125 - Crow Butte Uranium Project

Project Name: Three Crow Baseline Samples

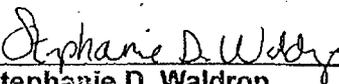
Energy Laboratories, Inc. received the following 4 samples for Crow Butte Resources on 12/7/2009 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C09120215-001	Miller 1	12/04/09 00:00	12/07/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C09120215-002	BOW 2006-5	12/04/09 00:00	12/07/09	Aqueous	Same As Above
C09120215-003	BOW 2006-6	12/04/09 00:00	12/07/09	Aqueous	Same As Above
C09120215-004	BOW 2006-7	12/04/09 00:00	12/07/09	Aqueous	Same As Above

As appropriate, any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

If you have any questions regarding these tests results, please call.

Report Approved By:


Stephanie D. Waldrop
Reporting Supervisor



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09120215-001
 Client Sample ID: Miller 1

Report Date: 02/02/10
 Collection Date: 12/04/09
 Date Received: 12/07/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	241	mg/L		5		A2320 B	12/09/09 10:43 / dvg
Carbonate as CO ₃	ND	mg/L		5		A2320 B	12/09/09 10:43 / dvg
Bicarbonate as HCO ₃	294	mg/L		5		A2320 B	12/09/09 10:43 / dvg
Calcium	72	mg/L		1		E200.7	12/14/09 16:20 / cp
Chloride	6	mg/L		1		E300.0	12/09/09 22:48 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	12/08/09 11:51 / dvg
Magnesium	5	mg/L		1		E200.7	12/14/09 16:20 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	12/10/09 11:20 / jal
Nitrogen, Nitrate+Nitrite as N	1.1	mg/L		0.1		E353.2	12/11/09 11:17 / jal
Potassium	9	mg/L		1		E200.7	12/14/09 16:20 / cp
Silica	61.7	mg/L		0.2		E200.7	12/14/09 16:20 / cp
Sodium	21	mg/L		1		E200.7	12/14/09 16:20 / cp
Sulfate	10	mg/L		1		E300.0	12/09/09 22:48 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	477	umhos/cm		1		A2510 B	12/07/09 17:31 / lr
pH	7.75	s.u.		0.01		A4500-H B	12/07/09 17:31 / lr
Solids, Total Dissolved TDS @ 180 C	319	mg/L		10		A2540 C	12/08/09 16:31 / dvg
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	12/09/09 03:19 / ts
Arsenic	0.003	mg/L		0.001		E200.8	12/09/09 03:19 / ts
Barium	ND	mg/L		0.1		E200.8	12/09/09 03:19 / ts
Boron	ND	mg/L		0.1		E200.7	12/14/09 16:20 / cp
Cadmium	ND	mg/L		0.005		E200.8	12/09/09 03:19 / ts
Chromium	ND	mg/L		0.05		E200.8	12/09/09 03:19 / ts
Copper	ND	mg/L		0.01		E200.8	12/09/09 03:19 / ts
Iron	ND	mg/L		0.03		E200.7	12/14/09 16:20 / cp
Lead	ND	mg/L		0.001		E200.8	12/09/09 03:19 / ts
Manganese	ND	mg/L		0.01		E200.8	12/09/09 03:19 / ts
Mercury	ND	mg/L		0.001		E200.8	12/09/09 03:19 / ts
Molybdenum	ND	mg/L		0.1		E200.8	12/09/09 03:19 / ts
Nickel	ND	mg/L		0.05		E200.8	12/09/09 03:19 / ts
Selenium	0.002	mg/L		0.001		E200.8	12/09/09 03:19 / ts
Uranium	0.0150	mg/L		0.0003		E200.8	12/09/09 03:19 / ts
Vanadium	ND	mg/L		0.1		E200.8	12/09/09 03:19 / ts
Zinc	0.01	mg/L		0.01		E200.8	12/09/09 03:19 / ts
METALS - SUSPENDED							
Uranium	0.0142	mg/L		0.0003		E200.8	12/11/09 16:13 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09120215-001
 Client Sample ID: Miller 1

Report Date: 02/02/10
 Collection Date: 12/04/09
 Date Received: 12/07/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0M	01/04/10 09:45 / dm
Lead 210 precision (±)	0.4	pCi/L				E909.0M	01/04/10 09:45 / dm
Lead 210 MDC	0.7	pCi/L				E909.0M	01/04/10 09:45 / dm
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	12/29/09 14:44 / plj
Polonium 210 precision (±)	0.5	pCi/L				E912.0	12/29/09 14:44 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	12/29/09 14:44 / plj
Radium 226	<0.14	pCi/L	U	0.14		E903.0	12/16/09 01:08 / jah
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/16/09 01:08 / jah
Radium 226 MDC	0.14	pCi/L				E903.0	12/16/09 01:08 / jah
Thorium 230	<0.1	pCi/L	U	0.1		E907.0	12/17/09 13:31 / ep
Thorium 230 precision (±)	0.07	pCi/L				E907.0	12/17/09 13:31 / ep
Thorium 230 MDC	0.1	pCi/L				E907.0	12/17/09 13:31 / ep
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.6	pCi/L	U	1.6		E909.0M	01/06/10 10:15 / dm
Lead 210 precision (±)	0.9	pCi/L				E909.0M	01/06/10 10:15 / dm
Lead 210 MDC	1.6	pCi/L				E909.0M	01/06/10 10:15 / dm
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	12/29/09 10:10 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/29/09 10:10 / plj
Polonium 210 MDC	0.3	pCi/L				E912.0	12/29/09 10:10 / plj
Radium 226	0.1	pCi/L		0.09		E903.0	12/21/09 17:09 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/21/09 17:09 / trs
Radium 226 MDC	0.09	pCi/L				E903.0	12/21/09 17:09 / trs
Thorium 230	8.1	pCi/L		0.05		E907.0	12/18/09 17:19 / dmf
Thorium 230 precision (±)	0.9	pCi/L				E907.0	12/18/09 17:19 / dmf
Thorium 230 MDC	0.05	pCi/L				E907.0	12/18/09 17:19 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-1.18	%				Calculation	12/16/09 12:05 / kbh
Anions	5.30	meq/L				Calculation	12/16/09 12:05 / kbh
Cations	5.17	meq/L				Calculation	12/16/09 12:05 / kbh
Solids, Total Dissolved Calculated	351	mg/L				Calculation	12/16/09 12:05 / kbh
TDS Balance (0.80 - 1.20)	0.910					Calculation	12/16/09 12:05 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09120215-002
 Client Sample ID: BOW 2006-5

Report Date: 02/02/10
 Collection Date: 12/04/09
 Date Received: 12/07/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	381	mg/L		5		A2320 B	12/09/09 10:52 / dvg
Carbonate as CO ₃	ND	mg/L		5		A2320 B	12/09/09 10:52 / dvg
Bicarbonate as HCO ₃	464	mg/L		5		A2320 B	12/09/09 10:52 / dvg
Calcium	101	mg/L		1		E200.7	12/14/09 16:24 / cp
Chloride	13	mg/L		1		E300.0	12/09/09 23:53 / ljl
Fluoride	1.2	mg/L		0.1		A4500-F C	12/08/09 12:05 / dvg
Magnesium	14	mg/L		1		E200.7	12/14/09 16:24 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/10/09 11:22 / jal
Nitrogen, Nitrate+Nitrite as N	2.1	mg/L		0.1		E353.2	12/11/09 11:20 / jal
Potassium	12	mg/L		1		E200.7	12/14/09 16:24 / cp
Silica	52.5	mg/L		0.2		E200.7	12/14/09 16:24 / cp
Sodium	35	mg/L		1		E200.7	12/14/09 16:24 / cp
Sulfate	25	mg/L		1		E300.0	12/09/09 23:53 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	735	umhos/cm		1		A2510 B	12/08/09 14:10 / ljl
pH	7.78	s.u.		0.01		A4500-H B	12/08/09 14:10 / ljl
Solids, Total Dissolved TDS @ 180 C	470	mg/L		10		A2540 C	12/08/09 16:31 / dvg
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	12/09/09 03:26 / ts
Arsenic	0.005	mg/L		0.001		E200.8	12/09/09 03:26 / ts
Barium	0.2	mg/L		0.1		E200.8	12/09/09 03:26 / ts
Boron	ND	mg/L		0.1		E200.7	12/14/09 16:24 / cp
Cadmium	ND	mg/L		0.005		E200.8	12/09/09 03:26 / ts
Chromium	ND	mg/L		0.05		E200.8	12/09/09 03:26 / ts
Copper	ND	mg/L		0.01		E200.8	12/09/09 03:26 / ts
Iron	ND	mg/L		0.03		E200.7	12/14/09 16:24 / cp
Lead	ND	mg/L		0.001		E200.8	12/09/09 03:26 / ts
Manganese	0.06	mg/L		0.01		E200.8	12/09/09 03:26 / ts
Mercury	ND	mg/L		0.001		E200.8	12/09/09 03:26 / ts
Molybdenum	ND	mg/L		0.1		E200.8	12/09/09 03:26 / ts
Nickel	ND	mg/L		0.05		E200.8	12/09/09 03:26 / ts
Selenium	ND	mg/L		0.001		E200.8	12/09/09 03:26 / ts
Uranium	0.0242	mg/L		0.0003		E200.8	12/09/09 03:26 / ts
Vanadium	ND	mg/L		0.1		E200.8	12/09/09 03:26 / ts
Zinc	1.07	mg/L		0.01		E200.8	12/09/09 03:26 / ts
METALS - SUSPENDED							
Uranium	0.0005	mg/L		0.0003		E200.8	12/11/09 16:17 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09120215-002
 Client Sample ID: BOW 2006-5

Report Date: 02/02/10
 Collection Date: 12/04/09
 Date Received: 12/07/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0M	01/04/10 09:45 / dm
Lead 210 precision (±)	0.4	pCi/L				E909.0M	01/04/10 09:45 / dm
Lead 210 MDC	0.7	pCi/L				E909.0M	01/04/10 09:45 / dm
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/29/09 14:44 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/29/09 14:44 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	12/29/09 14:44 / plj
Radium 226	<0.13	pCi/L	U	0.13		E903.0	12/16/09 01:08 / jah
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/16/09 01:08 / jah
Radium 226 MDC	0.13	pCi/L				E903.0	12/16/09 01:08 / jah
Thorium 230	<0.1	pCi/L	U	0.1		E907.0	12/17/09 13:31 / ep
Thorium 230 precision (±)	0.1	pCi/L				E907.0	12/17/09 13:31 / ep
Thorium 230 MDC	0.1	pCi/L				E907.0	12/17/09 13:31 / ep
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.6	pCi/L	U	1.6		E909.0M	01/06/10 10:15 / dm
Lead 210 precision (±)	0.9	pCi/L				E909.0M	01/06/10 10:15 / dm
Lead 210 MDC	1.6	pCi/L				E909.0M	01/06/10 10:15 / dm
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	12/29/09 10:10 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/29/09 10:10 / plj
Polonium 210 MDC	0.3	pCi/L				E912.0	12/29/09 10:10 / plj
Radium 226	<0.08	pCi/L	U	0.08		E903.0	12/21/09 17:09 / trs
Radium 226 precision (±)	0.04	pCi/L				E903.0	12/21/09 17:09 / trs
Radium 226 MDC	0.08	pCi/L				E903.0	12/21/09 17:09 / trs
Thorium 230	0.1	pCi/L		0.03		E907.0	12/18/09 17:19 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E907.0	12/18/09 17:19 / dmf
Thorium 230 MDC	0.03	pCi/L				E907.0	12/18/09 17:19 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-3.86	%				Calculation	12/16/09 12:05 / kbh
Anions	8.71	meq/L				Calculation	12/16/09 12:05 / kbh
Cations	8.06	meq/L				Calculation	12/16/09 12:05 / kbh
Solids, Total Dissolved Calculated	506	mg/L				Calculation	12/16/09 12:05 / kbh
TDS Balance (0.80 - 1.20)	0.930					Calculation	12/16/09 12:05 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09120215-003
 Client Sample ID: BOW 2006-6

Report Date: 02/02/10
 Collection Date: 12/04/09
 Date Received: 12/07/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	171	mg/L		5		A2320 B	12/09/09 11:00 / dvg
Carbonate as CO ₃	ND	mg/L		5		A2320 B	12/09/09 11:00 / dvg
Bicarbonate as HCO ₃	209	mg/L		5		A2320 B	12/09/09 11:00 / dvg
Calcium	40	mg/L		1		E200.7	12/14/09 16:28 / cp
Chloride	4	mg/L		1		E300.0	12/10/09 00:10 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	12/08/09 12:08 / dvg
Magnesium	5	mg/L		1		E200.7	12/14/09 16:28 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	12/10/09 11:29 / jal
Nitrogen, Nitrate+Nitrite as N	2.5	mg/L		0.1		E353.2	12/11/09 11:22 / jal
Potassium	7	mg/L		1		E200.7	12/14/09 16:28 / cp
Silica	61.6	mg/L		0.2		E200.7	12/14/09 16:28 / cp
Sodium	25	mg/L		1		E200.7	12/14/09 16:28 / cp
Sulfate	11	mg/L		1		E300.0	12/10/09 00:10 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	347	umhos/cm		1		A2510 B	12/08/09 14:14 / ljl
pH	7.94	s.u.		0.01		A4500-H B	12/08/09 14:14 / ljl
Solids, Total Dissolved TDS @ 180 C	253	mg/L		10		A2540 C	12/08/09 16:31 / dvg
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	12/09/09 03:33 / ts
Arsenic	0.006	mg/L		0.001		E200.8	12/09/09 03:33 / ts
Barium	0.2	mg/L		0.1		E200.8	12/09/09 03:33 / ts
Boron	ND	mg/L		0.1		E200.7	12/14/09 16:28 / cp
Cadmium	ND	mg/L		0.005		E200.8	12/09/09 03:33 / ts
Chromium	ND	mg/L		0.05		E200.8	12/09/09 03:33 / ts
Copper	0.01	mg/L		0.01		E200.8	12/09/09 03:33 / ts
Iron	ND	mg/L		0.03		E200.7	12/14/09 16:28 / cp
Lead	0.002	mg/L		0.001		E200.8	12/09/09 03:33 / ts
Manganese	ND	mg/L		0.01		E200.8	12/09/09 03:33 / ts
Mercury	ND	mg/L		0.001		E200.8	12/09/09 03:33 / ts
Molybdenum	ND	mg/L		0.1		E200.8	12/09/09 03:33 / ts
Nickel	ND	mg/L		0.05		E200.8	12/09/09 03:33 / ts
Selenium	0.002	mg/L		0.001		E200.8	12/09/09 03:33 / ts
Uranium	0.0086	mg/L		0.0003		E200.8	12/09/09 03:33 / ts
Vanadium	ND	mg/L		0.1		E200.8	12/09/09 03:33 / ts
Zinc	0.70	mg/L		0.01		E200.8	12/09/09 03:33 / ts
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/11/09 16:21 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09120215-003
 Client Sample ID: BOW 2006-6

Report Date: 02/02/10
 Collection Date: 12/04/09
 Date Received: 12/07/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0M	01/04/10 09:45 / dm
Lead 210 precision (±)	0.4	pCi/L				E909.0M	01/04/10 09:45 / dm
Lead 210 MDC	0.7	pCi/L				E909.0M	01/04/10 09:45 / dm
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	12/29/09 14:44 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/29/09 14:44 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	12/29/09 14:44 / plj
Radium 226	<0.14	pCi/L	U	0.14		E903.0	12/16/09 01:08 / jah
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/16/09 01:08 / jah
Radium 226 MDC	0.14	pCi/L				E903.0	12/16/09 01:08 / jah
Thorium 230	<0.1	pCi/L	U	0.1		E907.0	12/17/09 13:31 / ep
Thorium 230 precision (±)	0.07	pCi/L				E907.0	12/17/09 13:31 / ep
Thorium 230 MDC	0.1	pCi/L				E907.0	12/17/09 13:31 / ep
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.6	pCi/L	U	1.6		E909.0M	01/06/10 10:15 / dm
Lead 210 precision (±)	0.9	pCi/L				E909.0M	01/06/10 10:15 / dm
Lead 210 MDC	1.6	pCi/L				E909.0M	01/06/10 10:15 / dm
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	12/29/09 10:10 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/29/09 10:10 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	12/29/09 10:10 / plj
Radium 226	0.1	pCi/L			0.08	E903.0	12/21/09 17:09 / trs
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/21/09 17:09 / trs
Radium 226 MDC	0.08	pCi/L				E903.0	12/21/09 17:09 / trs
Thorium 230	0.06	pCi/L			0.03	E907.0	12/18/09 17:19 / dmf
Thorium 230 precision (±)	0.03	pCi/L				E907.0	12/18/09 17:19 / dmf
Thorium 230 MDC	0.03	pCi/L				E907.0	12/18/09 17:19 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-2.88	%				Calculation	12/16/09 12:05 / kbh
Anions	3.95	meq/L				Calculation	12/16/09 12:05 / kbh
Cations	3.73	meq/L				Calculation	12/16/09 12:05 / kbh
Solids, Total Dissolved Calculated	285	mg/L				Calculation	12/16/09 12:05 / kbh
TDS Balance (0.80 - 1.20)	0.890					Calculation	12/16/09 12:05 / kbh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09120215-004
 Client Sample ID: BOW 2006-7

Report Date: 02/02/10
 Collection Date: 12/04/09
 Date Received: 12/07/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	163	mg/L		5		A2320 B	12/09/09 11:27 / dvg
Carbonate as CO ₃	ND	mg/L		5		A2320 B	12/09/09 11:27 / dvg
Bicarbonate as HCO ₃	199	mg/L		5		A2320 B	12/09/09 11:27 / dvg
Calcium	33	mg/L		1		E200.7	12/14/09 16:44 / cp
Chloride	16	mg/L		1		E300.0	12/10/09 00:26 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	12/08/09 12:11 / dvg
Magnesium	3	mg/L		1		E200.7	12/14/09 16:44 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	12/10/09 11:31 / jal
Nitrogen, Nitrate+Nitrite as N	1.2	mg/L		0.1		E353.2	12/11/09 11:25 / jal
Potassium	8	mg/L		1		E200.7	12/14/09 16:44 / cp
Silica	66.5	mg/L		0.2		E200.7	12/14/09 16:44 / cp
Sodium	42	mg/L		1		E200.7	12/14/09 16:44 / cp
Sulfate	11	mg/L		1		E300.0	12/10/09 00:26 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	375	umhos/cm		1		A2510 B	12/08/09 14:16 / ljl
pH	8.00	s.u.		0.01		A4500-H B	12/08/09 14:16 / ljl
Solids, Total Dissolved TDS @ 180 C	276	mg/L		10		A2540 C	12/08/09 16:32 / dvg
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	12/09/09 03:40 / ts
Arsenic	0.004	mg/L		0.001		E200.8	12/09/09 03:40 / ts
Barium	0.1	mg/L		0.1		E200.8	12/09/09 03:40 / ts
Boron	ND	mg/L		0.1		E200.7	12/14/09 16:44 / cp
Cadmium	ND	mg/L		0.005		E200.8	12/09/09 03:40 / ts
Chromium	ND	mg/L		0.05		E200.8	12/09/09 03:40 / ts
Copper	ND	mg/L		0.01		E200.8	12/09/09 03:40 / ts
Iron	ND	mg/L		0.03		E200.7	12/14/09 16:44 / cp
Lead	0.001	mg/L		0.001		E200.8	12/09/09 03:40 / ts
Manganese	ND	mg/L		0.01		E200.8	12/09/09 03:40 / ts
Mercury	ND	mg/L		0.001		E200.8	12/09/09 03:40 / ts
Molybdenum	ND	mg/L		0.1		E200.8	12/09/09 03:40 / ts
Nickel	ND	mg/L		0.05		E200.8	12/09/09 03:40 / ts
Selenium	0.003	mg/L		0.001		E200.8	12/09/09 03:40 / ts
Uranium	0.0103	mg/L		0.0003		E200.8	12/09/09 03:40 / ts
Vanadium	ND	mg/L		0.1		E200.8	12/09/09 03:40 / ts
Zinc	0.36	mg/L		0.01		E200.8	12/09/09 03:40 / ts
METALS - SUSPENDED							
Uranium	0.0004	mg/L		0.0003		E200.8	12/11/09 16:25 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09120215-004
 Client Sample ID: BOW 2006-7

Report Date: 02/02/10
 Collection Date: 12/04/09
 Date Received: 12/07/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifier	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0M	01/04/10 09:45 / dm
Lead 210 precision (±)	0.4	pCi/L				E909.0M	01/04/10 09:45 / dm
Lead 210 MDC	0.7	pCi/L				E909.0M	01/04/10 09:45 / dm
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	12/29/09 14:44 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/29/09 14:44 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	12/29/09 14:44 / plj
Radium 226	<0.13	pCi/L	U	0.13		E903.0	12/16/09 01:08 / jah
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/16/09 01:08 / jah
Radium 226 MDC	0.13	pCi/L				E903.0	12/16/09 01:08 / jah
Thorium 230	<0.1	pCi/L	U	0.1		E907.0	12/17/09 13:31 / ep
Thorium 230 precision (±)	0.06	pCi/L				E907.0	12/17/09 13:31 / ep
Thorium 230 MDC	0.1	pCi/L				E907.0	12/17/09 13:31 / ep
RADIONUCLIDES - SUSPENDED							
Lead 210	<1.6	pCi/L	U	1.6		E909.0M	01/06/10 10:15 / dm
Lead 210 precision (±)	0.9	pCi/L				E909.0M	01/06/10 10:15 / dm
Lead 210 MDC	1.6	pCi/L				E909.0M	01/06/10 10:15 / dm
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	12/29/09 10:10 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/29/09 10:10 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	12/29/09 10:10 / plj
Radium 226	<0.1	pCi/L	U	0.1		E903.0	12/21/09 23:40 / trs
Radium 226 precision (±)	0.09	pCi/L				E903.0	12/21/09 23:40 / trs
Radium 226 MDC	0.1	pCi/L				E903.0	12/21/09 23:40 / trs
Thorium 230	0.06	pCi/L		0.05		E907.0	12/20/09 14:33 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E907.0	12/20/09 14:33 / dmf
Thorium 230 MDC	0.05	pCi/L				E907.0	12/20/09 14:33 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-1.35	%				Calculation	12/16/09 12:06 / kbh
Anions	4.05	meq/L				Calculation	12/16/09 12:06 / kbh
Cations	3.94	meq/L				Calculation	12/16/09 12:06 / kbh
Solids, Total Dissolved Calculated	301	mg/L				Calculation	12/16/09 12:06 / kbh
TDS Balance (0.80 - 1.20)	0.920					Calculation	12/16/09 12:06 / kbh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples

Report Date: 02/02/10
 Work Order: C09120215

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: R127497		
Sample ID: MBLK	3	Method Blank						Run: MANTECH_091209A	12/09/09 09:38	
Alkalinity, Total as CaCO3		4	mg/L	1						
Carbonate as CO3		ND	mg/L	1						
Bicarbonate as HCO3		5	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample						Run: MANTECH_091209A	12/09/09 09:55	
Alkalinity, Total as CaCO3		190	mg/L	5.0	93	90	110			
Sample ID: LCS		Laboratory Control Sample						Run: MANTECH_091209A	12/09/09 10:05	
Alkalinity, Total as CaCO3		53.5	mg/L	5.0	99	90	110			
Sample ID: C09120215-003AMS		Sample Matrix Spike						Run: MANTECH_091209A	12/09/09 11:10	
Alkalinity, Total as CaCO3		293	mg/L	5.0	97	80	120			
Sample ID: C09120215-003AMSD		Sample Matrix Spike Duplicate						Run: MANTECH_091209A	12/09/09 11:18	
Alkalinity, Total as CaCO3		290	mg/L	5.0	95	80	120	0.9	20	
Method: A2510 B								Analytical Run: ORION555A-2_091207A		
Sample ID: ICV2_091207_1		Initial Calibration Verification Standard							12/07/09 15:12	
Conductivity @ 25 C		1380	umhos/cm	1.0	97	90	110			
Method: A2510 B								Batch: 091207_1_PH-W_555A-2		
Sample ID: MBLK1_091207_1		Method Blank						Run: ORION555A-2_091207A	12/07/09 15:07	
Conductivity @ 25 C		0.9	umhos/cm	0.2						
Sample ID: C09120215-001ADUP		Sample Duplicate						Run: ORION555A-2_091207A	12/07/09 17:35	
Conductivity @ 25 C		477	umhos/cm	1.0				0	10	
Method: A2510 B								Analytical Run: ORION555A-2_091208A		
Sample ID: ICV2_091208_1		Initial Calibration Verification Standard							12/08/09 14:02	
Conductivity @ 25 C		1380	umhos/cm	1.0	98	90	110			
Method: A2510 B								Batch: 091208_1_PH-W_555A-2		
Sample ID: MBLK1_091208_1		Method Blank						Run: ORION555A-2_091208A	12/08/09 13:58	
Conductivity @ 25 C		1	umhos/cm	0.2						
Sample ID: C09120233-005ADUP		Sample Duplicate						Run: ORION555A-2_091208A	12/08/09 14:29	
Conductivity @ 25 C		5020	umhos/cm	1.0				0.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Baseline Samples

Report Date: 02/02/10
Work Order: C09120215

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 091208_1_SLDS-TDS-W		
Sample ID: MBLK1_091208		Method Blank				Run: BAL-1_091208B				12/08/09 16:39
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_091208		Laboratory Control Sample				Run: BAL-1_091208B				12/08/09 16:18
Solids, Total Dissolved TDS @ 180 C		1000	mg/L	10	100	90	110			
Sample ID: C09120215-004BMS		Sample Matrix Spike				Run: BAL-1_091208B				12/08/09 16:32
Solids, Total Dissolved TDS @ 180 C		2240	mg/L	10	98	90	110			
Sample ID: C09120215-004BMSD		Sample Matrix Spike Duplicate				Run: BAL-1_091208B				12/08/09 16:33
Solids, Total Dissolved TDS @ 180 C		2270	mg/L	10	100	90	110	1.5	10	
Method: A4500-F C								Batch: R127406		
Sample ID: MBLK		Method Blank				Run: MANTECH_091208B				12/08/09 11:37
Fluoride		ND	mg/L	0.05						
Sample ID: LCS		Laboratory Control Sample				Run: MANTECH_091208B				12/08/09 11:42
Fluoride		0.960	mg/L	0.10	96	90	110			
Sample ID: C09120215-001AMS		Sample Matrix Spike				Run: MANTECH_091208B				12/08/09 11:54
Fluoride		1.66	mg/L	0.10	105	80	120			
Sample ID: C09120215-001AMSD		Sample Matrix Spike Duplicate				Run: MANTECH_091208B				12/08/09 12:00
Fluoride		1.63	mg/L	0.10	102	80	120	1.8	10	
Method: A4500-H B								Analytical Run: ORION555A-2_091207A		
Sample ID: ICV1_091207_1		Initial Calibration Verification Standard								12/07/09 15:10
pH		6.84	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 091207_1_PH-W_555A-2		
Sample ID: C09120215-001ADUP		Sample Duplicate				Run: ORION555A-2_091207A				12/07/09 17:35
pH		7.87	s.u.	0.010				1.5	10	
Method: A4500-H B								Analytical Run: ORION555A-2_091208A		
Sample ID: ICV1_091208_1		Initial Calibration Verification Standard								12/08/09 14:00
pH		6.87	s.u.	0.010	100	98	102			
Method: A4500-H B								Batch: 091208_1_PH-W_555A-2		
Sample ID: C09120182-010ADUP		Sample Duplicate				Run: ORION555A-2_091208A				12/08/09 15:43
pH		7.78	s.u.	0.010				0.1	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples

Report Date: 02/02/10
 Work Order: C09120215

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R127515
Sample ID: MBLK-1		Method Blank						Run: TECHNICON_091210A		12/10/09 09:38
Nitrogen, Ammonia as N		ND	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample						Run: TECHNICON_091210A		12/10/09 09:40
Nitrogen, Ammonia as N		20.8	mg/L	0.20	104	80	120			
Sample ID: C09120215-002FMS		Sample Matrix Spike						Run: TECHNICON_091210A		12/10/09 11:24
Nitrogen, Ammonia as N		1.79	mg/L	0.050	90	80	120			
Sample ID: C09120215-002FMDS		Sample Matrix Spike Duplicate						Run: TECHNICON_091210A		12/10/09 11:26
Nitrogen, Ammonia as N		1.81	mg/L	0.050	91	80	120	1.1	20	
Method: E300.0										Batch: R127514
Sample ID: LCS	2	Laboratory Control Sample						Run: IC2-C_091209A		12/09/09 15:08
Chloride		9.73	mg/L	1.0	97	90	110			
Sulfate		39.5	mg/L	1.0	99	90	110			
Sample ID: MBLK	2	Method Blank						Run: IC2-C_091209A		12/09/09 15:24
Chloride		ND	mg/L	0.04						
Sulfate		ND	mg/L	0.1						
Sample ID: C09120206-001AMS	2	Sample Matrix Spike						Run: IC2-C_091209A		12/09/09 22:15
Chloride		22.0	mg/L	1.0	99	80	120			
Sulfate		106	mg/L	1.0	102	80	120			
Sample ID: C09120206-001AMSD	2	Sample Matrix Spike Duplicate						Run: IC2-C_091209A		12/09/09 22:31
Chloride		21.5	mg/L	1.0	97	80	120	2.1	20	
Sulfate		105	mg/L	1.0	100	80	120	1.3	20	
Sample ID: C09120215-004AMS	2	Sample Matrix Spike						Run: IC2-C_091209A		12/10/09 00:42
Chloride		26.1	mg/L	1.0	54	80	120			S
Sulfate		83.3	mg/L	1.0	92	80	120			
- Matrix spike recoveries outside the acceptance range are considered matrix-related.										
Sample ID: C09120215-004AMSD	2	Sample Matrix Spike Duplicate						Run: IC2-C_091209A		12/10/09 00:59
Chloride		25.8	mg/L	1.0	52	80	120	1.4	20	S
Sulfate		82.5	mg/L	1.0	91	80	120	1	20	
- Matrix spike recoveries outside the acceptance range are considered matrix-related.										

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Baseline Samples

Report Date: 01/13/10
Work Order: C09120215

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7 Batch: R127628										
Sample ID: MB-091214A	Z	Method Blank				Run: ICP2-C_091214A				12/14/09 14:57
Boron		ND	mg/L	0.03						
Calcium		ND	mg/L	0.2						
Iron		ND	mg/L	0.005						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Silicon		0.01	mg/L	0.01						
Sodium		ND	mg/L	0.2						
Sample ID: LFB-091214A	Z	Laboratory Fortified Blank				Run: ICP2-C_091214A				12/14/09 15:01
Boron		0.951	mg/L	0.10	95	85	115			
Calcium		48.1	mg/L	0.50	96	85	115			
Iron		0.944	mg/L	0.030	94	85	115			
Magnesium		47.0	mg/L	0.50	94	85	115			
Potassium		43.2	mg/L	0.50	86	85	115			
Silicon		0.451	mg/L	0.015	97	85	115			
Sodium		45.9	mg/L	0.50	92	85	115			
Sample ID: C09120111-001BMS2	Z	Sample Matrix Spike				Run: ICP2-C_091214A				12/14/09 15:59
Boron		2.00	mg/L	0.10	95	70	130			
Calcium		163	mg/L	1.0	99	70	130			
Iron		2.01	mg/L	0.030	97	70	130			
Magnesium		105	mg/L	1.0	95	70	130			
Potassium		101	mg/L	1.0	93	70	130			
Silicon		8.19	mg/L	0.10		70	130			A
Sodium		126	mg/L	1.0	95	70	130			
Sample ID: C09120111-001BMSD	Z	Sample Matrix Spike Duplicate				Run: ICP2-C_091214A				12/14/09 16:03
Boron		2.02	mg/L	0.10	96	70	130	0.9	20	
Calcium		163	mg/L	1.0	100	70	130	0.1	20	
Iron		2.00	mg/L	0.030	97	70	130	0.1	20	
Magnesium		107	mg/L	1.0	97	70	130	1.9	20	
Potassium		98.9	mg/L	1.0	91	70	130	1.9	20	
Silicon		8.19	mg/L	0.10		70	130	0	20	A
Sodium		127	mg/L	1.0	97	70	130	1.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Baseline Samples

Report Date: 01/13/10
Work Order: C09120215

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 24614
Sample ID: MB-24614		Method Blank								Run: ICPMS2-C_091211A 12/11/09 14:37
Uranium		0.002	mg/filter	6E-05						
Sample ID: LCS2-24614		Laboratory Control Sample								Run: ICPMS2-C_091211A 12/11/09 14:42
Uranium		0.0987	mg/filter	0.00030	97	85	115			
Sample ID: C09120097-006AMS		Sample Matrix Spike								Run: ICPMS2-C_091211A 12/11/09 15:36
Uranium		1.23E-05	mg/filter	1.0E-05	99	75	125			
Sample ID: C09120097-006AMSD		Sample Matrix Spike Duplicate								Run: ICPMS2-C_091211A 12/11/09 15:40
Uranium		1.19E-05	mg/filter	1.0E-05	97	75	125	2.9	20	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Baseline Samples

Report Date: 01/13/10
Work Order: C09120215

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: R127442		
Sample ID: LRB		15 Method Blank			Run: ICPMS2-C_091208A			12/08/09 12:56		
Aluminum		ND	mg/L	0.002						
Arsenic		ND	mg/L	0.0003						
Barium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	6E-05						
Chromium		ND	mg/L	8E-05						
Copper		ND	mg/L	4E-05						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	5E-05						
Mercury		ND	mg/L	4E-05						
Molybdenum		ND	mg/L	4E-05						
Nickel		ND	mg/L	9E-05						
Selenium		ND	mg/L	0.001						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	9E-05						
Zinc		0.0009	mg/L	6E-05						
Sample ID: LFB		15 Laboratory Fortified Blank			Run: ICPMS2-C_091208A			12/08/09 13:03		
Aluminum		0.0520	mg/L	0.0022	104	85	115			
Arsenic		0.0500	mg/L	0.0010	100	85	115			
Barium		0.0494	mg/L	0.0010	99	85	115			
Cadmium		0.0497	mg/L	0.0010	99	85	115			
Chromium		0.0503	mg/L	0.0010	101	85	115			
Copper		0.0502	mg/L	0.0010	100	85	115			
Lead		0.0501	mg/L	0.0010	100	85	115			
Manganese		0.0502	mg/L	0.0010	100	85	115			
Mercury		0.00504	mg/L	0.0010	101	85	115			
Molybdenum		0.0491	mg/L	0.0010	98	85	115			
Nickel		0.0501	mg/L	0.0010	100	85	115			
Selenium		0.0497	mg/L	0.0014	99	85	115			
Uranium		0.0492	mg/L	0.00030	98	85	115			
Vanadium		0.0504	mg/L	0.0010	101	85	115			
Zinc		0.0511	mg/L	0.0010	100	85	115			
Sample ID: C09120215-004CMS4		15 Sample Matrix Spike			Run: ICPMS2-C_091208A			12/09/09 03:46		
Aluminum		0.0454	mg/L	0.0010	90	70	130			
Arsenic		0.0529	mg/L	0.0010	98	70	130			
Barium		0.185	mg/L	0.10	99	70	130			
Cadmium		0.0484	mg/L	0.010	97	70	130			
Chromium		0.0456	mg/L	0.0010	90	70	130			
Copper		0.0497	mg/L	0.010	92	70	130			
Lead		0.0497	mg/L	0.0010	97	70	130			
Manganese		0.0440	mg/L	0.010	88	70	130			
Mercury		0.00480	mg/L	0.0010	96	70	130			
Molybdenum		0.0500	mg/L	0.0010	97	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples

Report Date: 01/13/10
 Work Order: C09120215

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.8										Batch: R127442	
Sample ID: C09120215-004CMS4		15 Sample Matrix Spike			Run: ICPMS2-C_091208A				12/09/09 03:46		
Nickel		0.0472	mg/L	0.0010	94	70	130				
Selenium		0.0519	mg/L	0.0010	98	70	130				
Uranium		0.0582	mg/L	0.00030	96	70	130				
Vanadium		0.0537	mg/L	0.0010	91	70	130				
Zinc		0.409	mg/L	0.010		70	130			A	
Sample ID: C09120215-004CMSD		15 Sample Matrix Spike Duplicate			Run: ICPMS2-C_091208A				12/09/09 03:53		
Aluminum		0.0468	mg/L	0.0010	93	70	130	3	20		
Arsenic		0.0528	mg/L	0.0010	97	70	130	0.3	20		
Barium		0.184	mg/L	0.10	98	70	130	0.4	20		
Cadmium		0.0485	mg/L	0.010	97	70	130	0.2	20		
Chromium		0.0460	mg/L	0.0010	91	70	130	0.8	20		
Copper		0.0495	mg/L	0.010	92	70	130	0.4	20		
Lead		0.0498	mg/L	0.0010	97	70	130	0.2	20		
Manganese		0.0445	mg/L	0.010	89	70	130	1	20		
Mercury		0.00488	mg/L	0.0010	98	70	130	1.6	20		
Molybdenum		0.0502	mg/L	0.0010	97	70	130	0.4	20		
Nickel		0.0467	mg/L	0.0010	93	70	130	1.1	20		
Selenium		0.0509	mg/L	0.0010	96	70	130	1.9	20		
Uranium		0.0584	mg/L	0.00030	96	70	130	0.3	20		
Vanadium		0.0540	mg/L	0.0010	92	70	130	0.6	20		
Zinc		0.403	mg/L	0.010		70	130	1.4	20	A	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples

Report Date: 02/02/10
 Work Order: C09120215

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R127554
Sample ID: MBLK-1		Method Blank								
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Run: TECHNICON_091211A										12/11/09 09:55
Sample ID: LCS-2		Laboratory Control Sample								
Nitrogen, Nitrate+Nitrite as N		2.64	mg/L	0.10	106	90	110			
Run: TECHNICON_091211A										12/11/09 09:57
Sample ID: C09120215-004FMS		Sample Matrix Spike								
Nitrogen, Nitrate+Nitrite as N		3.35	mg/L	0.10	106	90	110			
Run: TECHNICON_091211A										12/11/09 11:30
Sample ID: C09120215-004FMSD		Sample Matrix Spike Duplicate								
Nitrogen, Nitrate+Nitrite as N		3.29	mg/L	0.10	103	90	110	1.8	10	
Run: TECHNICON_091211A										12/11/09 11:32
Method: E903.0										Batch: 24614
Sample ID: C09120215-004GMS		Sample Matrix Spike								
Radium 226		16	pCi/L		83	70	130			
Run: BERTHOLD 770-2_091211A										12/21/09 23:40
Sample ID: C09120215-004GMSD		Sample Matrix Spike Duplicate								
Radium 226		18	pCi/L		91	70	130	10	20.3	
Run: BERTHOLD 770-2_091211A										12/21/09 23:40
Sample ID: LCS-24614		Laboratory Control Sample								
Radium 226		13	pCi/L		82	70	130			
Run: BERTHOLD 770-2_091211A										12/21/09 23:40
Sample ID: MB-24614	3	Method Blank								
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.09	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Run: BERTHOLD 770-2_091211A										12/21/09 23:40
Method: E903.0										Batch: RA226-4233
Sample ID: C09120215-001DMS		Sample Matrix Spike								
Radium 226		16	pCi/L		102	70	130			
Run: BERTHOLD 770-2_091208A										12/16/09 01:08
Sample ID: C09120215-001DMSD		Sample Matrix Spike Duplicate								
Radium 226		16	pCi/L		101	70	130	0	19.9	
Run: BERTHOLD 770-2_091208A										12/16/09 01:08
Sample ID: MB-RA226-4233	3	Method Blank								
Radium 226		-0.2	pCi/L							U
Radium 226 precision (±)		0.06	pCi/L							
Radium 226 MDC		0.1	pCi/L							
Run: BERTHOLD 770-2_091208A										12/16/09 05:49
Sample ID: LCS-RA226-4233		Laboratory Control Sample								
Radium 226		8.7	pCi/L		112	70	130			
Run: BERTHOLD 770-2_091208A										12/16/09 05:49

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples

Report Date: 02/02/10
 Work Order: C09120215

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										
Sample ID: LCS-RA-TH-ISO-1053	Laboratory Control Sample									Batch: R127854
Thorium 230		4.6	pCi/L		88	70	130			12/17/09 13:31
Run: EGG-ORTEC_091215A										
Sample ID: C09120111-001DMS	Sample Matrix Spike									12/17/09 13:31
Thorium 230		13	pCi/L		104	70	130			12/17/09 13:31
Run: EGG-ORTEC_091215A										
Sample ID: C09120111-001DMSD	Sample Matrix Spike Duplicate									12/17/09 13:31
Thorium 230		11	pCi/L		87	70	130	18	37.5	12/17/09 13:31
Run: EGG-ORTEC_091215A										
Sample ID: MB-RA-TH-ISO-1053	3 Method Blank									12/18/09 08:42
Thorium 230		0.1	pCi/L							U
Thorium 230 precision (±)		0.10	pCi/L							
Thorium 230 MDC		0.1	pCi/L							
Method: E907.0										
Sample ID: C09120097-001AMS	Sample Matrix Spike									Batch: R127855
Thorium 230		11.3	pCi/Filter		106	70	130			12/17/09 18:04
Run: EGG-ORTEC_091214A										
Sample ID: C09120097-001AMSD	Sample Matrix Spike Duplicate									12/17/09 18:04
Thorium 230		10.7	pCi/Filter		101	70	130	5.3	39.8	12/17/09 18:04
Run: EGG-ORTEC_091214A										
Sample ID: LCS-24614	Laboratory Control Sample									12/20/09 14:33
Thorium 230		2.33	pCi/Filter		120	70	130			12/20/09 14:33
Run: EGG-ORTEC_091214A										
Sample ID: MB-24614	3 Method Blank									12/20/09 14:33
Thorium 230		0.0007	pCi/Filter							U
Thorium 230 precision (±)		0.10	pCi/Filter							
Thorium 230 MDC		0.2	pCi/Filter							
Method: E909.0M										
Sample ID: C09120215-004GMS	Sample Matrix Spike									Batch: 24614
Lead 210		150	pCi/L		104	70	130			01/06/10 10:15
Run: BECKMAN 6100TA_100106B										
Sample ID: C09120215-004GMSD	Sample Matrix Spike Duplicate									01/06/10 10:15
Lead 210		140	pCi/L		98	70	130	6.9	30	01/06/10 10:15
Run: BECKMAN 6100TA_100106B										
Sample ID: MB-R128663	3 Method Blank									01/06/10 10:15
Lead 210		-4	pCi/L							U
Lead 210 precision (±)		5	pCi/L							
Lead 210 MDC		8	pCi/L							
Run: BECKMAN 6100TA_100106B										
Sample ID: LCS-R128663	Laboratory Control Sample									01/06/10 10:15
Lead 210		570	pCi/L		107	70	130			01/06/10 10:15
Run: BECKMAN 6100TA_100106B										

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Baseline Samples

Report Date: 02/02/10
Work Order: C09120215

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: R128649
Sample ID: C09071109-001CMS		Sample Matrix Spike				Run: BECKMAN 6100TA_100104A			01/04/10 09:45	
Lead 210		310	pCi/L		137	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MSD are acceptable the batch is approved.										
Sample ID: C09071109-001CMSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_100104A			01/04/10 09:45	
Lead 210		260	pCi/L		114	70	130	18	30	
Sample ID: MB-R128649	3	Method Blank				Run: BECKMAN 6100TA_100104A			01/04/10 09:45	
Lead 210		0.1	pCi/L							U
Lead 210 precision (±)		6	pCi/L							
Lead 210 MDC		10	pCi/L							
Sample ID: LCS-R128649		Laboratory Control Sample				Run: BECKMAN 6100TA_100104A			01/04/10 09:45	
Lead 210		100	pCi/L		91	70	130			
Method: E912.0										Batch: PO210-0274
Sample ID: C09110863-004EMS		Sample Matrix Spike				Run: EGG-ORTEC_091228B			12/29/09 14:45	
Polonium 210		22	pCi/L		82	70	130			
Sample ID: C09110863-004EMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_091228B			12/29/09 14:45	
Polonium 210		30	pCi/L		109	70	130	29	59.6	
Sample ID: LCS-PO210-0274		Laboratory Control Sample				Run: EGG-ORTEC_091228B			12/29/09 14:44	
Polonium 210		17	pCi/L		104	70	130			
Sample ID: MB-PO210-0274	3	Method Blank				Run: EGG-ORTEC_091228B			12/29/09 14:44	
Polonium 210		0.1	pCi/L							U
Polonium 210 precision (±)		0.3	pCi/L							
Polonium 210 MDC		0.6	pCi/L							
Method: E912.0										Batch: R128148
Sample ID: LCS-24576		Laboratory Control Sample				Run: EGG-ORTEC_091228A			12/29/09 10:10	
Polonium 210		8.50	pCi/g-dry		106	70	130			
Sample ID: MB-24576	3	Method Blank				Run: EGG-ORTEC_091228A			12/29/09 10:10	
Polonium 210		0.1	pCi/g-dry							U
Polonium 210 precision (±)		0.2	pCi/g-dry							
Polonium 210 MDC		0.2	pCi/g-dry							
Sample ID: C09120215-004GMS		Sample Matrix Spike				Run: EGG-ORTEC_091228A			12/29/09 10:10	
Polonium 210		20	pCi/L		95	70	130			
Sample ID: C09120215-004GMSD		Sample Matrix Spike Duplicate				Run: EGG-ORTEC_091228A			12/29/09 10:10	
Polonium 210		19	pCi/L		92	70	130	4.4	54.1	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration
U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: Crow Butte Resources, Inc.	Project Name, PWS, Permit, Etc. Three Crow Baseline Samples	Sample Origin State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: P.O. Box 169 Crawford, NE 69339	Contact Name: Larry Teahon	Phone/Fax: 308-665-2341	Email: daxmynus@msn.com
Invoice Address: P.O. Box 169 Crawford, NE 69339	Invoice Contact & Phone: Larry Teahon 308-665-2215 ext 114	Purchase Order: 1125	Quote/Bottle Order:

Special Report/Formats – ELI must be notified prior to sample submittal for the following:

DW A2LA
 GSA EDD/EDT (Electronic Data)
 POTW/WWTP Format: _____
 State: _____ LEVEL IV
 Other: _____ NELAC

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED										SEE ATTACHED Normal Turnaround (TAT)	R U S H	Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page	Shipped by: <i>Hand</i> Cooler ID(s): <i>Various</i>	
				HNO3, Metals	RAW-F, Common Ions	RAW-UF, Alkalinity	H2SO4-F, NO2, NO3, NH4	Raw-UF, Ra226, Po210 dis, sus	Raw-UF, Pb210 dis and sus	Raw-UF, Th230, U-nat dis and sus								
1 Miller 1	12/4/09		Water	.5	1	1	.5	4	4	4								Receipt Temp <u>2</u> °C
2 BOW 2006-5	12/4/09		Water	.5	1	1	.5	4	4	4								On Ice: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
3 BOW 2006-6	12/4/09		Water	.5	1	1	.5	4	4	4								Custody Seal Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
4 BOW 2006-7	12/4/09		Water	.5	1	1	.5	4	4	4								Intact Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
5																		Signature Match Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
6																		
7																		
8																		
9																		
10																		

Custody Record MUST be Signed	Relinquished by (print): <i>Walter D Nelson</i>	Date/Time: <i>12/7/09 12:00</i>	Signature: <i>Walter D Nelson</i>	Received by (print):	Date/Time:	Signature:
	Relinquished by (print):	Date/Time:	Signature:	Received by (print):	Date/Time:	Signature:
	Sample Disposal: Return to Client: <u>No</u>	Lab Disposal: <u>YES</u>	Received by Laboratory: <i>Andrew</i>	Date/Time: <i>12-7-09 1200</i>	Signature: <i>[Signature]</i>	

LABORATORY USE ONLY

09/20/05

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

Energy Laboratories Inc Workorder Receipt Checklist



C09120215

Crow Butte Resources

Login completed by: Corinne Wagner

Date and Time Received: 12/7/2009 12:00 PM

Reviewed by:

Received by: al

Reviewed Date:

Carrier name: Hand Del

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature:	2°C		
Water - VOA vials have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Applicable <input type="checkbox"/>

Contact and Corrective Action Comments:

Samples for dissolved metals and radionuclides were subsampled, filtered and preserved with 2 mL HNO₃ in lab upon receipt to pH <2.



CLIENT: Crow Butte Resources
Project: Three Crow Baseline Samples
Sample Delivery Group: C09120215

Date: 02-Feb-10

CASE NARRATIVE

PB210 ANALYSIS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS USING EPA 505

Data for Atrazine and Simazine are reported from EPA 525.2, not from EPA 505. Data reported by ELI using EPA method 505 reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT



ANALYTICAL SUMMARY REPORT

February 26, 2010

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C09110829 Quote ID: C1125 - Crow Butte Uranium Project

Project Name: Three Crow Baseline Samples

Energy Laboratories, Inc. received the following 4 samples for Crow Butte Resources on 11/24/2009 for analysis.

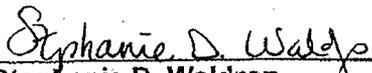
Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C09110829-001	Miller 1	11/20/09 00:00	11/24/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C09110829-002	BOW 2006-5	11/20/09 00:00	11/24/09	Aqueous	Same As Above
C09110829-003	BOW 2006-6	11/20/09 00:00	11/24/09	Aqueous	Same As Above
C09110829-004	BOW 2006-7	11/20/09 00:00	11/24/09	Aqueous	Same As Above

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:


Stephanie D. Waldrop
Reporting Supervisor



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09110829-001
 Client Sample ID: Miller 1

Report Date: 02/26/10
 Collection Date: 11/20/09
 Date Received: 11/24/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	246	mg/L		5		A2320 B	11/25/09 19:41 / dvg
Carbonate as CO3	ND	mg/L		5		A2320 B	11/25/09 19:41 / dvg
Bicarbonate as HCO3	301	mg/L		5		A2320 B	11/25/09 19:41 / dvg
Calcium	71	mg/L		1		E200.7	12/02/09 15:12 / cp
Chloride	6	mg/L		1		E300.0	12/01/09 23:33 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	11/25/09 09:21 / dvg
Magnesium	6	mg/L		1		E200.7	12/02/09 15:12 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/01/09 10:36 / jal
Nitrogen, Nitrate+Nitrite as N	2.2	mg/L		0.1		E353.2	12/01/09 16:46 / jal
Potassium	8	mg/L		1		E200.7	12/02/09 15:12 / cp
Silica	64.1	mg/L		0.2		E200.7	12/02/09 15:12 / cp
Sodium	19	mg/L		1		E200.7	12/02/09 15:12 / cp
Sulfate	10	mg/L		1		E300.0	12/01/09 23:33 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	471	umhos/cm		1		A2510 B	11/25/09 10:58 / th
pH	8.12	s.u.		0.01		A4500-H B	11/25/09 10:58 / th
Solids, Total Dissolved TDS @ 180 C	320	mg/L		10		A2540 C	11/24/09 14:59 / th
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	11/26/09 00:13 / ts
Arsenic	0.003	mg/L		0.001		E200.8	11/26/09 00:13 / ts
Barium	0.1	mg/L		0.1		E200.8	11/26/09 00:13 / ts
Boron	ND	mg/L		0.1		E200.7	12/02/09 15:12 / cp
Cadmium	ND	mg/L		0.005		E200.8	11/26/09 00:13 / ts
Chromium	ND	mg/L		0.05		E200.8	11/26/09 00:13 / ts
Copper	ND	mg/L		0.01		E200.8	11/26/09 00:13 / ts
Iron	ND	mg/L		0.03		E200.7	12/02/09 15:12 / cp
Lead	ND	mg/L		0.001		E200.8	11/26/09 00:13 / ts
Manganese	ND	mg/L		0.01		E200.8	11/26/09 00:13 / ts
Mercury	ND	mg/L		0.001		E200.8	11/26/09 00:13 / ts
Molybdenum	ND	mg/L		0.1		E200.8	11/26/09 00:13 / ts
Nickel	ND	mg/L		0.05		E200.8	11/26/09 00:13 / ts
Selenium	0.003	mg/L		0.001		E200.8	11/26/09 00:13 / ts
Uranium	0.0137	mg/L		0.0003		E200.8	11/26/09 00:13 / ts
Vanadium	ND	mg/L		0.1		E200.8	11/26/09 00:13 / ts
Zinc	ND	mg/L		0.01		E200.8	11/26/09 00:13 / ts
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/04/09 01:30 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09110829-001
 Client Sample ID: Miller 1

Report Date: 02/26/10
 Collection Date: 11/20/09
 Date Received: 11/24/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0M	02/18/10 18:47 / dm
Lead 210 precision (±)	0.4	pCi/L				E909.0M	02/18/10 18:47 / dm
Lead 210 MDC	0.7	pCi/L				E909.0M	02/18/10 18:47 / dm
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	12/29/09 14:45 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/29/09 14:45 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	12/29/09 14:45 / plj
Radium 226	<0.19	pCi/L	U	0.19		E903.0	12/08/09 03:28 / trs
Radium 226 precision (±)	0.13	pCi/L				E903.0	12/08/09 03:28 / trs
Radium 226 MDC	0.19	pCi/L				E903.0	12/08/09 03:28 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E907.0	12/10/09 14:20 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E907.0	12/10/09 14:20 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	12/10/09 14:20 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<2.8	pCi/L	U	2.8		E909.0M	01/13/10 15:43 / dm
Lead 210 precision (±)	1.6	pCi/L				E909.0M	01/13/10 15:43 / dm
Lead 210 MDC	2.8	pCi/L				E909.0M	01/13/10 15:43 / dm
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	12/11/09 09:00 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/11/09 09:00 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	12/11/09 09:00 / plj
Radium 226	<0.2	pCi/L	U	0.2		E903.0	12/15/09 13:21 / jah
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/15/09 13:21 / jah
Radium 226 MDC	0.2	pCi/L				E903.0	12/15/09 13:21 / jah
Thorium 230	<0.04	pCi/L	U	0.04		E907.0	12/14/09 19:45 / dmf
Thorium 230 precision (±)	0.03	pCi/L				E907.0	12/14/09 19:45 / dmf
Thorium 230 MDC	0.04	pCi/L				E907.0	12/14/09 19:45 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-4.48	%				Calculation	12/04/09 09:45 / kbh
Anions	5.50	meq/L				Calculation	12/04/09 09:45 / kbh
Cations	5.02	meq/L				Calculation	12/04/09 09:45 / kbh
Solids, Total Dissolved Calculated	359	mg/L				Calculation	12/04/09 09:45 / kbh
TDS Balance (0.80 - 1.20)	0.890					Calculation	12/04/09 09:45 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09110829-002
 Client Sample ID: BOW 2006-5

Report Date: 02/26/10
 Collection Date: 11/20/09
 Date Received: 11/24/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	392	mg/L		5		A2320 B	11/30/09 17:58 / dvg
Carbonate as CO3	ND	mg/L		5		A2320 B	11/30/09 17:58 / dvg
Bicarbonate as HCO3	478	mg/L		5		A2320 B	11/30/09 17:58 / dvg
Calcium	100	mg/L		1		E200.7	12/07/09 12:49 / cp
Chloride	14	mg/L		1		E300.0	12/01/09 23:50 / ljl
Fluoride	1.2	mg/L		0.1		A4500-F C	11/25/09 09:28 / dvg
Magnesium	14	mg/L		1		E200.7	12/07/09 12:49 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/01/09 10:44 / jal
Nitrogen, Nitrate+Nitrite as N	ND	mg/L		0.1		E353.2	12/01/09 16:48 / jal
Potassium	12	mg/L		1		E200.7	12/07/09 12:49 / cp
Silica	53.1	mg/L		0.2		E200.7	12/02/09 15:16 / cp
Sodium	34	mg/L		1		E200.7	12/07/09 12:49 / cp
Sulfate	24	mg/L		1		E300.0	12/01/09 23:50 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	730	umhos/cm		1		A2510 B	11/25/09 11:01 / th
pH	8.14	s.u.		0.01		A4500-H B	11/25/09 11:01 / th
Solids, Total Dissolved TDS @ 180 C	499	mg/L		10		A2540 C	11/24/09 14:59 / th
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	11/26/09 00:20 / ts
Arsenic	0.006	mg/L		0.001		E200.8	11/26/09 00:20 / ts
Barium	0.2	mg/L		0.1		E200.8	11/26/09 00:20 / ts
Boron	ND	mg/L		0.1		E200.7	12/02/09 15:16 / cp
Cadmium	ND	mg/L		0.005		E200.8	11/26/09 00:20 / ts
Chromium	ND	mg/L		0.05		E200.8	11/26/09 00:20 / ts
Copper	ND	mg/L		0.01		E200.8	11/26/09 00:20 / ts
Iron	ND	mg/L		0.03		E200.7	12/02/09 15:16 / cp
Lead	0.002	mg/L		0.001		E200.8	11/26/09 00:20 / ts
Manganese	0.07	mg/L		0.01		E200.8	11/26/09 00:20 / ts
Mercury	ND	mg/L		0.001		E200.8	11/26/09 00:20 / ts
Molybdenum	ND	mg/L		0.1		E200.8	11/26/09 00:20 / ts
Nickel	ND	mg/L		0.05		E200.8	11/26/09 00:20 / ts
Selenium	ND	mg/L		0.001		E200.8	11/26/09 00:20 / ts
Uranium	0.0227	mg/L		0.0003		E200.8	11/26/09 00:20 / ts
Vanadium	ND	mg/L		0.1		E200.8	11/26/09 00:20 / ts
Zinc	1.14	mg/L		0.01		E200.8	11/26/09 00:20 / ts
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/04/09 01:39 / ts

Report RL - Analyte reporting limit.

Definitions: QCL - Quality control limit.

U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.

ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09110829-002
 Client Sample ID: BOW 2006-5

Report Date: 02/26/10
 Collection Date: 11/20/09
 Date Received: 11/24/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0M	02/18/10 18:47 / dm
Lead 210 precision (±)	0.4	pCi/L				E909.0M	02/18/10 18:47 / dm
Lead 210 MDC	0.7	pCi/L				E909.0M	02/18/10 18:47 / dm
Polonium 210	<1.0	pCi/L	U	1.0		E912.0	12/29/09 14:45 / plj
Polonium 210 precision (±)	0.4	pCi/L				E912.0	12/29/09 14:45 / plj
Polonium 210 MDC	1.0	pCi/L				E912.0	12/29/09 14:45 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	12/08/09 03:28 / trs
Radium 226 precision (±)	0.1	pCi/L				E903.0	12/08/09 03:28 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	12/08/09 03:28 / trs
Thorium 230	<0.2	pCi/L	U	0.2		E907.0	12/10/09 14:20 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E907.0	12/10/09 14:20 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	12/10/09 14:20 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<2.7	pCi/L	U	2.7		E909.0M	01/13/10 15:43 / dm
Lead 210 precision (±)	1.6	pCi/L				E909.0M	01/13/10 15:43 / dm
Lead 210 MDC	2.7	pCi/L				E909.0M	01/13/10 15:43 / dm
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	12/11/09 09:00 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/11/09 09:00 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	12/11/09 09:00 / plj
Radium 226	<0.2	pCi/L	U	0.2		E903.0	12/15/09 13:21 / jah
Radium 226 precision (±)	0.08	pCi/L				E903.0	12/15/09 13:21 / jah
Radium 226 MDC	0.2	pCi/L				E903.0	12/15/09 13:21 / jah
Thorium 230	<0.03	pCi/L	U	0.03		E907.0	12/14/09 19:45 / dmf
Thorium 230 precision (±)	0.02	pCi/L				E907.0	12/14/09 19:45 / dmf
Thorium 230 MDC	0.03	pCi/L				E907.0	12/14/09 19:45 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-4.89	%				Calculation	12/08/09 09:32 / kbh
Anions	8.78	meq/L				Calculation	12/08/09 09:32 / kbh
Cations	7.96	meq/L				Calculation	12/08/09 09:32 / kbh
Solids, Total Dissolved Calculated	502	mg/L				Calculation	12/08/09 09:32 / kbh
TDS Balance (0.80 - 1.20)	0.990					Calculation	12/08/09 09:32 / kbh

Report Definitions: RL - Analyte reporting limit. MCL - Maximum contaminant level.
 QCL - Quality control limit. ND - Not detected at the reporting limit.
 MDC - Minimum detectable concentration. U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09110829-003
 Client Sample ID: BOW 2006-6

Report Date: 02/26/10
 Collection Date: 11/20/09
 Date Received: 11/24/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	172	mg/L		5		A2320 B	11/30/09 18:34 / dvg
Carbonate as CO3	ND	mg/L		5		A2320 B	11/30/09 18:34 / dvg
Bicarbonate as HCO3	210	mg/L		5		A2320 B	11/30/09 18:34 / dvg
Calcium	46	mg/L		1		E200.7	12/02/09 15:20 / cp
Chloride	4	mg/L		1		E300.0	12/02/09 00:06 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	11/25/09 09:30 / dvg
Magnesium	7	mg/L		1		E200.7	12/02/09 15:20 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/01/09 10:46 / jal
Nitrogen, Nitrate+Nitrite as N	1.8	mg/L		0.1		E353.2	12/01/09 16:51 / jal
Potassium	6	mg/L		1		E200.7	12/02/09 15:20 / cp
Silica	62.8	mg/L		0.2		E200.7	12/02/09 15:20 / cp
Sodium	14	mg/L		1		E200.7	12/02/09 15:20 / cp
Sulfate	10	mg/L		1		E300.0	12/02/09 00:06 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	348	umhos/cm		1		A2510 B	11/25/09 11:04 / th
pH	8.12	s.u.		0.01		A4500-H B	11/25/09 11:04 / th
Solids, Total Dissolved TDS @ 180 C	242	mg/L		10		A2540 C	11/24/09 15:00 / th
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	11/26/09 00:27 / ts
Arsenic	0.004	mg/L		0.001		E200.8	11/26/09 00:27 / ts
Barium	0.2	mg/L		0.1		E200.8	11/26/09 00:27 / ts
Boron	ND	mg/L		0.1		E200.7	12/02/09 15:20 / cp
Cadmium	ND	mg/L		0.005		E200.8	11/26/09 00:27 / ts
Chromium	ND	mg/L		0.05		E200.8	11/26/09 00:27 / ts
Copper	ND	mg/L		0.01		E200.8	11/26/09 00:27 / ts
Iron	ND	mg/L		0.03		E200.7	12/02/09 15:20 / cp
Lead	0.001	mg/L		0.001		E200.8	11/26/09 00:27 / ts
Manganese	ND	mg/L		0.01		E200.8	11/26/09 00:27 / ts
Mercury	ND	mg/L		0.001		E200.8	11/26/09 00:27 / ts
Molybdenum	ND	mg/L		0.1		E200.8	11/26/09 00:27 / ts
Nickel	ND	mg/L		0.05		E200.8	11/26/09 00:27 / ts
Selenium	0.003	mg/L		0.001		E200.8	11/26/09 00:27 / ts
Uranium	0.0083	mg/L		0.0003		E200.8	11/26/09 00:27 / ts
Vanadium	ND	mg/L		0.1		E200.8	11/26/09 00:27 / ts
Zinc	0.62	mg/L		0.01		E200.8	11/26/09 00:27 / ts
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/04/09 01:43 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09110829-003
 Client Sample ID: BOW 2006-6

Report Date: 02/26/10
 Collection Date: 11/20/09
 Date Received: 11/24/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0M	02/18/10 18:47 / dm
Lead 210 precision (±)	0.4	pCi/L				E909.0M	02/18/10 18:47 / dm
Lead 210 MDC	0.7	pCi/L				E909.0M	02/18/10 18:47 / dm
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	12/29/09 14:44 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/29/09 14:44 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	12/29/09 14:44 / plj
Radium 226	<0.17	pCi/L	U	0.17		E903.0	12/08/09 03:28 / trs
Radium 226 precision (±)	0.11	pCi/L				E903.0	12/08/09 03:28 / trs
Radium 226 MDC	0.17	pCi/L				E903.0	12/08/09 03:28 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E907.0	12/10/09 14:20 / dmf
Thorium 230 precision (±)	0.08	pCi/L				E907.0	12/10/09 14:20 / dmf
Thorium 230 MDC	0.1	pCi/L				E907.0	12/10/09 14:20 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<2.7	pCi/L	U	2.7		E909.0M	01/13/10 15:43 / dm
Lead 210 precision (±)	1.6	pCi/L				E909.0M	01/13/10 15:43 / dm
Lead 210 MDC	2.7	pCi/L				E909.0M	01/13/10 15:43 / dm
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	12/11/09 09:00 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/11/09 09:00 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	12/11/09 09:00 / plj
Radium 226	<0.2	pCi/L	U	0.2		E903.0	12/15/09 13:21 / jah
Radium 226 precision (±)	0.07	pCi/L				E903.0	12/15/09 13:21 / jah
Radium 226 MDC	0.2	pCi/L				E903.0	12/15/09 13:21 / jah
Thorium 230	0.04	pCi/L		0.03		E907.0	12/14/09 19:45 / dmf
Thorium 230 precision (±)	0.03	pCi/L				E907.0	12/14/09 19:45 / dmf
Thorium 230 MDC	0.03	pCi/L				E907.0	12/14/09 19:45 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-1.91	%				Calculation	12/04/09 09:48 / kbh
Anions	3.76	meq/L				Calculation	12/04/09 09:48 / kbh
Cations	3.62	meq/L				Calculation	12/04/09 09:48 / kbh
Solids, Total Dissolved Calculated	190	mg/L				Calculation	12/04/09 09:48 / kbh
TDS Balance (0.80 - 1.20)	1.27					Calculation	12/04/09 09:48 / kbh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09110829-004
 Client Sample ID: BOW 2006-7

Report Date: 02/26/10
 Collection Date: 11/20/09
 Date Received: 11/24/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	162	mg/L		5		A2320 B	11/30/09 18:42 / dvg
Carbonate as CO3	ND	mg/L		5		A2320 B	11/30/09 18:42 / dvg
Bicarbonate as HCO3	197	mg/L		5		A2320 B	11/30/09 18:42 / dvg
Calcium	30	mg/L		1		E200.7	12/02/09 15:24 / cp
Chloride	4	mg/L		1		E300.0	12/02/09 00:55 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	11/25/09 09:38 / dvg
Magnesium	3	mg/L		1		E200.7	12/02/09 15:24 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/01/09 10:48 / jal
Nitrogen, Nitrate+Nitrite as N	1.2	mg/L		0.1		E353.2	12/07/09 13:06 / jal
Potassium	8	mg/L		1		E200.7	12/02/09 15:24 / cp
Silica	68.4	mg/L		0.2		E200.7	12/02/09 15:24 / cp
Sodium	35	mg/L		1		E200.7	12/02/09 15:24 / cp
Sulfate	15	mg/L		1		E300.0	12/02/09 00:55 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	338	umhos/cm		1		A2510 B	11/25/09 11:06 / th
pH	8.13	s.u.		0.01		A4500-H B	11/25/09 11:06 / th
Solids, Total Dissolved TDS @ 180 C	266	mg/L		10		A2540 C	11/25/09 09:23 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.8	11/26/09 01:01 / ts
Arsenic	0.007	mg/L		0.001		E200.8	11/26/09 01:01 / ts
Barium	0.1	mg/L		0.1		E200.8	11/26/09 01:01 / ts
Boron	ND	mg/L		0.1		E200.7	12/02/09 15:24 / cp
Cadmium	ND	mg/L		0.005		E200.8	11/26/09 01:01 / ts
Chromium	ND	mg/L		0.05		E200.8	11/26/09 01:01 / ts
Copper	ND	mg/L		0.01		E200.8	11/26/09 01:01 / ts
Iron	ND	mg/L		0.03		E200.7	12/02/09 15:24 / cp
Lead	ND	mg/L		0.001		E200.8	11/26/09 01:01 / ts
Manganese	ND	mg/L		0.01		E200.8	11/26/09 01:01 / ts
Mercury	ND	mg/L		0.001		E200.8	11/30/09 19:50 / sml
Molybdenum	ND	mg/L		0.1		E200.8	11/26/09 01:01 / ts
Nickel	ND	mg/L		0.05		E200.8	11/26/09 01:01 / ts
Selenium	0.003	mg/L		0.001		E200.8	11/26/09 01:01 / ts
Uranium	0.0100	mg/L		0.0003		E200.8	11/26/09 01:01 / ts
Vanadium	ND	mg/L		0.1		E200.8	11/26/09 01:01 / ts
Zinc	0.29	mg/L		0.01		E200.8	11/26/09 01:01 / ts
METALS - SUSPENDED							
Uranium	ND	mg/L		0.0003		E200.8	12/04/09 01:47 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples
 Lab ID: C09110829-004
 Client Sample ID: BOW 2006-7

Report Date: 02/26/10
 Collection Date: 11/20/09
 Date Received: 11/24/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<0.7	pCi/L	U	0.7		E909.0M	02/18/10 18:47 / dm
Lead 210 precision (±)	0.4	pCi/L				E909.0M	02/18/10 18:47 / dm
Lead 210 MDC	0.7	pCi/L				E909.0M	02/18/10 18:47 / dm
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	12/29/09 14:44 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/29/09 14:44 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	12/29/09 14:44 / plj
Radium 226	<0.16	pCi/L	U	0.16		E903.0	12/08/09 03:28 / trs
Radium 226 precision (±)	0.11	pCi/L				E903.0	12/08/09 03:28 / trs
Radium 226 MDC	0.16	pCi/L				E903.0	12/08/09 03:28 / trs
Thorium 230	<0.1	pCi/L	U	0.1		E907.0	12/10/09 14:20 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E907.0	12/10/09 14:20 / dmf
Thorium 230 MDC	0.1	pCi/L				E907.0	12/10/09 14:20 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<2.7	pCi/L	U	2.7		E909.0M	01/13/10 15:43 / dm
Lead 210 precision (±)	1.6	pCi/L				E909.0M	01/13/10 15:43 / dm
Lead 210 MDC	2.8	pCi/L				E909.0M	01/13/10 15:43 / dm
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	12/11/09 11:11 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/11/09 11:11 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	12/11/09 11:11 / plj
Radium 226	<0.2	pCi/L	U	0.2		E903.0	12/15/09 14:56 / jah
Radium 226 precision (±)	0.09	pCi/L				E903.0	12/15/09 14:56 / jah
Radium 226 MDC	0.2	pCi/L				E903.0	12/15/09 14:56 / jah
Thorium 230	<0.06	pCi/L	U	0.06		E907.0	12/14/09 19:45 / dmf
Thorium 230 precision (±)	0.03	pCi/L				E907.0	12/14/09 19:45 / dmf
Thorium 230 MDC	0.06	pCi/L				E907.0	12/14/09 19:45 / dmf
- See Case Narrative regarding Pb210 analysis.							
DATA QUALITY							
A/C Balance (± 5)	-3.34	%				Calculation	12/04/09 09:49 / kbh
Anions	3.67	meq/L				Calculation	12/04/09 09:49 / kbh
Cations	3.43	meq/L				Calculation	12/04/09 09:49 / kbh
Solids, Total Dissolved Calculated	192	mg/L				Calculation	12/04/09 09:49 / kbh
TDS Balance (0.80 - 1.20)	1.39					Calculation	12/04/09 09:49 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples

Report Date: 02/26/10
 Work Order: C09110829

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R127006
Sample ID: MBLK	3	Method Blank						Run: MANTECH_091125B		11/25/09 11:15
Alkalinity, Total as CaCO3		4	mg/L	1						
Carbonate as CO3		ND	mg/L	1						
Bicarbonate as HCO3		5	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample						Run: MANTECH_091125B		11/25/09 11:33
Alkalinity, Total as CaCO3		191	mg/L	5.0	94	90	110			
Sample ID: LCS		Laboratory Control Sample						Run: MANTECH_091125B		11/25/09 11:42
Alkalinity, Total as CaCO3		56.5	mg/L	5.0	105	90	110			
Sample ID: C09110785-001AMS		Sample Matrix Spike						Run: MANTECH_091125B		11/25/09 18:49
Alkalinity, Total as CaCO3		312	mg/L	5.0	102	80	120			
Sample ID: C09110785-001AMSD		Sample Matrix Spike Duplicate						Run: MANTECH_091125B		11/25/09 18:57
Alkalinity, Total as CaCO3		308	mg/L	5.0	99	80	120	1.3	20	
Sample ID: C09110830-002AMS		Sample Matrix Spike						Run: MANTECH_091125B		11/25/09 20:59
Alkalinity, Total as CaCO3		712	mg/L	5.0	100	80	120			
Sample ID: C09110830-002AMSD		Sample Matrix Spike Duplicate						Run: MANTECH_091125B		11/25/09 21:09
Alkalinity, Total as CaCO3		714	mg/L	5.0	102	80	120	0.3	20	
Method: A2320 B										Batch: R127091
Sample ID: MBLK	3	Method Blank						Run: MANTECH_091130B		11/30/09 13:48
Alkalinity, Total as CaCO3		2	mg/L	1						
Carbonate as CO3		ND	mg/L	1						
Bicarbonate as HCO3		3	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample						Run: MANTECH_091130B		11/30/09 14:06
Alkalinity, Total as CaCO3		188	mg/L	5.0	93	90	110			
Sample ID: LCS		Laboratory Control Sample						Run: MANTECH_091130B		11/30/09 14:16
Alkalinity, Total as CaCO3		53.0	mg/L	5.0	101	90	110			
Sample ID: C09110785-001AMS		Sample Matrix Spike						Run: MANTECH_091130B		11/30/09 16:54
Alkalinity, Total as CaCO3		307	mg/L	5.0	98	80	120			
Sample ID: C09110785-001AMSD		Sample Matrix Spike Duplicate						Run: MANTECH_091130B		11/30/09 17:02
Alkalinity, Total as CaCO3		307	mg/L	5.0	98	80	120	0.1	20	
Sample ID: C09110830-001AMS		Sample Matrix Spike						Run: MANTECH_091130B		11/30/09 19:00
Alkalinity, Total as CaCO3		539	mg/L	5.0	94	80	120			
Sample ID: C09110830-001AMSD		Sample Matrix Spike Duplicate						Run: MANTECH_091130B		11/30/09 19:09
Alkalinity, Total as CaCO3		541	mg/L	5.0	95	80	120	0.4	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Baseline Samples

Report Date: 02/26/10
Work Order: C09110829

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A2510 B										Analytical Run: ORION555A-2_091125A	
Sample ID: ICV2_091125_1		Initial Calibration Verification Standard								11/25/09 10:44	
Conductivity @ 25 C		1380	umhos/cm	1.0	98	90	110				
Method: A2510 B										Batch: 091125_1_PH-W_555A-2	
Sample ID: MBLK1_091125_1		Method Blank								Run: ORION555A-2_091125A	11/25/09 10:39
Conductivity @ 25 C		1	umhos/cm	0.2							
Sample ID: C09110830-002ADUP		Sample Duplicate								Run: ORION555A-2_091125A	11/25/09 11:13
Conductivity @ 25 C		2950	umhos/cm	1.0				0.3	10		

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Baseline Samples

Report Date: 02/26/10
Work Order: C09110829

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C		Batch: 091124_2_SLDS-TDS-W								
Sample ID: MBLK1_091124	Method Blank						Run: BAL-1_091124B		11/24/09 13:51	
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_091124	Laboratory Control Sample						Run: BAL-1_091124B		11/24/09 13:51	
Solids, Total Dissolved TDS @ 180 C		991	mg/L	10	99	90	110			
Sample ID: C09110808-001AMS	Sample Matrix Spike						Run: BAL-1_091124B		11/24/09 14:00	
Solids, Total Dissolved TDS @ 180 C		2240	mg/L	10	102	90	110			
Sample ID: C09110808-001AMSD	Sample Matrix Spike Duplicate						Run: BAL-1_091124B		11/24/09 14:01	
Solids, Total Dissolved TDS @ 180 C		2250	mg/L	10	102	90	110	0.7	10	
Method: A2540 C		Batch: 091125_1_SLDS-TDS-W								
Sample ID: MBLK1_091125	Method Blank						Run: BAL-1_091125A		11/25/09 09:22	
Solids, Total Dissolved TDS @ 180 C		10	mg/L	10						
Sample ID: LCS1_091125	Laboratory Control Sample						Run: BAL-1_091125A		11/25/09 09:22	
Solids, Total Dissolved TDS @ 180 C		1020	mg/L	10	101	90	110			
Sample ID: C09110832-005AMS	Sample Matrix Spike						Run: BAL-1_091125A		11/25/09 09:26	
Solids, Total Dissolved TDS @ 180 C		2100	mg/L	10	103	90	110			
Sample ID: C09110832-005AMSD	Sample Matrix Spike Duplicate						Run: BAL-1_091125A		11/25/09 09:26	
Solids, Total Dissolved TDS @ 180 C		2070	mg/L	10	101	90	110	1.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Baseline Samples

Report Date: 02/26/10
Work Order: C09110829

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										Batch: R126984
Sample ID: MBLK		Method Blank								Run: MANTECH_091125A 11/25/09 09:02
Fluoride		ND	mg/L	0.05						
Sample ID: LCS		Laboratory Control Sample								Run: MANTECH_091125A 11/25/09 09:05
Fluoride		1.04	mg/L	0.10	104	90	110			
Sample ID: C09110829-003AMS		Sample Matrix Spike								Run: MANTECH_091125A 11/25/09 09:33
Fluoride		1.44	mg/L	0.10	105	80	120			
Sample ID: C09110829-003AMSD		Sample Matrix Spike Duplicate								Run: MANTECH_091125A 11/25/09 09:36
Fluoride		1.44	mg/L	0.10	105	80	120	0	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Baseline Samples

Report Date: 02/28/10
Work Order: C09110829

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-H B										Analytical Run: ORION555A-2_091125A
Sample ID: ICV1_091125_1		Initial Calibration Verification Standard								11/25/09 10:42
pH		6.97	s.u.	0.010	102	98	102			
Method: A4500-H B										Batch: 091125_1_PH-W_555A-2
Sample ID: C09110830-002ADUP		Sample Duplicate								Run: ORION555A-2_091125A 11/25/09 11:13
pH		8.21	s.u.	0.010				0.4	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Baseline Samples

Report Date: 02/26/10
Work Order: C09110829

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R127121
Sample ID: MBLK-1		Method Blank								Run: TECHNICON_091201A 12/01/09 09:54
Nitrogen, Ammonia as N		0.04	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample								Run: TECHNICON_091201A 12/01/09 09:56
Nitrogen, Ammonia as N		19.5	mg/L	0.20	97	80	120			
Sample ID: C09110829-001FMS		Sample Matrix Spike								Run: TECHNICON_091201A 12/01/09 10:38
Nitrogen, Ammonia as N		1.89	mg/L	0.050	95	80	120			
Sample ID: C09110829-001FMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_091201A 12/01/09 10:40
Nitrogen, Ammonia as N		1.93	mg/L	0.050	96	80	120	2.1	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples

Report Date: 02/26/10
 Work Order: C09110829

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: E200.7											
Batch: R127230											
Sample ID: MB-091202A	Z	Method Blank		Run: ICP2-C_091202A				12/02/09 13:44			
Boron		ND	mg/L	0.03							
Calcium		ND	mg/L	0.2							
Iron		ND	mg/L	0.005							
Magnesium		ND	mg/L	0.09							
Potassium		ND	mg/L	0.1							
Silicon		ND	mg/L	0.01							
Sodium		0.3	mg/L	0.2							
Sample ID: LFB-091202A	Z	Laboratory Fortified Blank		Run: ICP2-C_091202A				12/02/09 13:48			
Boron		0.945	mg/L	0.10	94	85	115				
Calcium		47.5	mg/L	0.50	95	85	115				
Iron		0.926	mg/L	0.030	93	85	115				
Magnesium		46.7	mg/L	0.50	93	85	115				
Potassium		44.4	mg/L	0.50	89	85	115				
Silicon		0.449	mg/L	0.015	100	85	115				
Sodium		46.9	mg/L	0.50	93	85	115				
Sample ID: C09110830-004CMS2	Z	Sample Matrix Spike		Run: ICP2-C_091202A				12/02/09 15:56			
Boron		2.75	mg/L	0.10	96	70	130				
Calcium		138	mg/L	1.0	102	70	130				
Iron		1.96	mg/L	0.030	96	70	130				
Magnesium		110	mg/L	1.0	99	70	130				
Potassium		111	mg/L	1.0	91	70	130				
Silicon		9.35	mg/L	0.10		70	130			A	
Sodium		648	mg/L	1.0		70	130			A	
Sample ID: C09110830-004CMSD	Z	Sample Matrix Spike Duplicate		Run: ICP2-C_091202A				12/02/09 16:00			
Boron		2.75	mg/L	0.10	96	70	130	0.1	20		
Calcium		131	mg/L	1.0	94	70	130	5.6	20		
Iron		1.90	mg/L	0.030	93	70	130	3	20		
Magnesium		107	mg/L	1.0	96	70	130	2.8	20		
Potassium		111	mg/L	1.0	91	70	130	0.2	20		
Silicon		9.13	mg/L	0.10		70	130	2.4	20	A	
Sodium		639	mg/L	1.0		70	130	1.5	20	A	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples

Report Date: 02/26/10
 Work Order: C09110829

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7										Batch: R127379
Sample ID: MB-091207A	4	Method Blank					Run: ICP2-C_091207A			12/07/09 11:36
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Sodium		ND	mg/L	0.2						
Sample ID: LFB-091207A	4	Laboratory Fortified Blank					Run: ICP2-C_091207A			12/07/09 11:40
Calcium		47.0	mg/L	0.50	94	85	115			
Magnesium		48.6	mg/L	0.50	97	85	115			
Potassium		45.1	mg/L	0.50	90	85	115			
Sodium		45.6	mg/L	0.50	91	85	115			
Sample ID: C09120141-001AMS2	4	Sample Matrix Spike					Run: ICP2-C_091207A			12/07/09 12:57
Calcium		260	mg/L	0.51	104	70	130			
Magnesium		120	mg/L	0.50	97	70	130			
Potassium		110	mg/L	0.50	85	70	130			
Sodium		410	mg/L	0.50	105	70	130			
Sample ID: C09120141-001AMSD	4	Sample Matrix Spike Duplicate					Run: ICP2-C_091207A			12/07/09 13:01
Calcium		260	mg/L	0.51	102	70	130	0.9	20	
Magnesium		120	mg/L	0.50	97	70	130	0.3	20	
Potassium		110	mg/L	0.50	86	70	130	0.5	20	
Sodium		400	mg/L	0.50	105	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Baseline Samples

Report Date: 02/26/10
Work Order: C09110829

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R127019
Sample ID: LRB	15	Method Blank		Run: ICPMS2-C_091125A				11/25/09 15:40		
Aluminum		ND	mg/L	0.002						
Arsenic		ND	mg/L	0.0003						
Barium		ND	mg/L	3E-05						
Cadmium		ND	mg/L	6E-05						
Chromium		0.0002	mg/L	8E-05						
Copper		5E-05	mg/L	4E-05						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	5E-05						
Mercury		ND	mg/L	4E-05						
Molybdenum		ND	mg/L	4E-05						
Nickel		ND	mg/L	9E-05						
Selenium		ND	mg/L	0.001						
Uranium		ND	mg/L	8E-06						
Vanadium		ND	mg/L	9E-05						
Zinc		0.0001	mg/L	6E-05						
Sample ID: LFB	15	Laboratory Fortified Blank		Run: ICPMS2-C_091125A				11/25/09 16:00		
Aluminum		0.0510	mg/L	0.10	102	85	115			
Arsenic		0.0529	mg/L	0.0010	106	85	115			
Barium		0.0529	mg/L	0.10	106	85	115			
Cadmium		0.0524	mg/L	0.010	105	85	115			
Chromium		0.0538	mg/L	0.050	107	85	115			
Copper		0.0536	mg/L	0.010	107	85	115			
Lead		0.0529	mg/L	0.050	106	85	115			
Manganese		0.0534	mg/L	0.010	107	85	115			
Mercury		0.00526	mg/L	0.0010	105	85	115			
Molybdenum		0.0531	mg/L	0.10	106	85	115			
Nickel		0.0536	mg/L	0.050	107	85	115			
Selenium		0.0523	mg/L	0.0010	105	85	115			
Uranium		0.0508	mg/L	0.00030	102	85	115			
Vanadium		0.0534	mg/L	0.10	107	85	115			
Zinc		0.0556	mg/L	0.010	111	85	115			
Sample ID: C09110830-004CMS4	15	Sample Matrix Spike		Run: ICPMS2-C_091125A				11/26/09 01:34		
Aluminum		0.0519	mg/L	0.0010	104	70	130			
Arsenic		0.0833	mg/L	0.0010	112	70	130			
Barium		0.0721	mg/L	0.0010	115	70	130			
Cadmium		0.0537	mg/L	0.010	107	70	130			
Chromium		0.0522	mg/L	0.050	104	70	130			
Copper		0.0550	mg/L	0.010	101	70	130			
Lead		0.0566	mg/L	0.050	112	70	130			
Manganese		0.0713	mg/L	0.010	105	70	130			
Mercury		0.00601	mg/L	0.0010	120	70	130			
Molybdenum		0.230	mg/L	0.10	123	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples

Report Date: 02/26/10
 Work Order: C09110829

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: R127019		
Sample ID: C09110830-004CMS4	15	Sample Matrix Spike			Run: ICPMS2-C_091125A			11/26/09 01:34		
Nickel		0.0548	mg/L	0.050	102	70	130			
Selenium		0.0596	mg/L	0.0010	107	70	130			
Uranium		2.37	mg/L	0.00030		70	130			A
Vanadium		0.532	mg/L	0.10		70	130			A
Zinc		0.0560	mg/L	0.010	101	70	130			
Sample ID: C09110830-004CMSD	15	Sample Matrix Spike Duplicate			Run: ICPMS2-C_091125A			11/26/09 01:41		
Aluminum		0.0509	mg/L	0.0010	102	70	130	1.8	20	
Arsenic		0.0820	mg/L	0.0010	109	70	130	1.5	20	
Barium		0.0717	mg/L	0.0010	114	70	130	0.6	20	
Cadmium		0.0535	mg/L	0.010	107	70	130	0.3	20	
Chromium		0.0519	mg/L	0.050	104	70	130	0.7	20	
Copper		0.0547	mg/L	0.010	100	70	130	0.5	20	
Lead		0.0559	mg/L	0.050	111	70	130	1.2	20	
Manganese		0.0706	mg/L	0.010	103	70	130	1	20	
Mercury		0.00565	mg/L	0.0010	113	70	130	6.2	20	
Molybdenum		0.229	mg/L	0.10	121	70	130	0.5	20	
Nickel		0.0543	mg/L	0.050	101	70	130	0.8	20	
Selenium		0.0579	mg/L	0.0010	104	70	130	2.9	20	
Uranium		2.31	mg/L	0.00030		70	130	2.3	20	A
Vanadium		0.527	mg/L	0.10		70	130	1	20	A
Zinc		0.0554	mg/L	0.010	99	70	130	1	20	
Method: E200.8								Batch: 24536		
Sample ID: MB-24536		Method Blank			Run: ICPMS2-C_091203A			12/03/09 17:29		
Uranium		0.0003	mg/L	1E-05						
Sample ID: LCS2-24536		Laboratory Control Sample			Run: ICPMS2-C_091203A			12/03/09 17:34		
Uranium		0.103	mg/L	0.00030	103	85	115			
Sample ID: C09110829-004GMS		Sample Matrix Spike			Run: ICPMS2-C_091203A			12/04/09 01:51		
Uranium		0.0566	mg/L	0.00030	113	70	130			
Sample ID: C09110829-004GMSD		Sample Matrix Spike Duplicate			Run: ICPMS2-C_091203A			12/04/09 01:55		
Uranium		0.0567	mg/L	0.00030	113	70	130	0.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Baseline Samples

Report Date: 02/26/10
Work Order: C09110829

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R127119
Sample ID: LRB		Method Blank								Run: ICPMS4-C_091130A 11/30/09 14:57
Mercury		ND	mg/L	4E-05						
Sample ID: LFB		Laboratory Fortified Blank								Run: ICPMS4-C_091130A 11/30/09 15:03
Mercury		0.00487	mg/L	0.0010	97	85	115			
Sample ID: C09110737-002BMS4		Sample Matrix Spike								Run: ICPMS4-C_091130A 11/30/09 20:17
Mercury		0.00538	mg/L	0.0010	108	70	130			
Sample ID: C09110737-002BMSD		Sample Matrix Spike Duplicate								Run: ICPMS4-C_091130A 11/30/09 20:52
Mercury		0.00504	mg/L	0.0010	101	70	130	6.5	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Baseline Samples

Report Date: 02/26/10
Work Order: C09110829

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0										Batch: R127247
Sample ID: LCS	2	Laboratory Control Sample					Run: IC2-C_091201A			12/01/09 17:49
Chloride		9.89	mg/L	1.0	99	90	110			
Sulfate		39.6	mg/L	1.0	99	90	110			
Sample ID: MBLK	2	Method Blank					Run: IC2-C_091201A			12/01/09 18:05
Chloride		ND	mg/L	0.04						
Sulfate		ND	mg/L	0.1						
Sample ID: C09110829-003AMS	2	Sample Matrix Spike					Run: IC2-C_091201A			12/02/09 00:23
Chloride		23.4	mg/L	1.0	98	80	120			
Sulfate		86.7	mg/L	1.0	98	80	120			
Sample ID: C09110829-003AMSD	2	Sample Matrix Spike Duplicate					Run: IC2-C_091201A			12/02/09 00:39
Chloride		24.6	mg/L	1.0	104	80	120	5	20	
Sulfate		91.4	mg/L	1.0	104	80	120	5.2	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Baseline Samples

Report Date: 02/26/10
Work Order: C09110829

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2 Batch: R127149										
Sample ID: MBLK-1		Method Blank								Run: TECHNICON_091201B 12/01/09 15:38
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample								Run: TECHNICON_091201B 12/01/09 15:41
Nitrogen, Nitrate+Nitrite as N		2.49	mg/L	0.10	100	90	110			
Sample ID: C09110889-001AMS		Sample Matrix Spike								Run: TECHNICON_091201B 12/01/09 16:34
Nitrogen, Nitrate+Nitrite as N		2.49	mg/L	0.10	100	90	110			
Sample ID: C09110889-001AMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_091201B 12/01/09 16:36
Nitrogen, Nitrate+Nitrite as N		2.52	mg/L	0.10	101	90	110	1.2	10	
Method: E353.2 Batch: R127364										
Sample ID: MBLK-1		Method Blank								Run: TECHNICON_091207A 12/07/09 10:19
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample								Run: TECHNICON_091207A 12/07/09 10:21
Nitrogen, Nitrate+Nitrite as N		2.46	mg/L	0.10	98	90	110			
Sample ID: C09110837-001AMS		Sample Matrix Spike								Run: TECHNICON_091207A 12/07/09 13:14
Nitrogen, Nitrate+Nitrite as N		2.14	mg/L	0.10	103	90	110			
Sample ID: C09110837-001AMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_091207A 12/07/09 13:16
Nitrogen, Nitrate+Nitrite as N		2.16	mg/L	0.10	104	90	110	0.9	10	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples

Report Date: 02/26/10
 Work Order: C09110829

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0 Batch: RA226-4217										
Sample ID: C09110859-001EMS		Sample Matrix Spike				Run: BERTHOLD 770-1_091130A			12/08/09 03:28	
Radium 226		19	pCi/L	92		70	130			
Sample ID: C09110859-001EMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-1_091130A			12/08/09 03:28	
Radium 226		20	pCi/L	97		70	130	4.7	21.8	
Sample ID: MB-RA226-4217	3	Method Blank				Run: BERTHOLD 770-1_091130A			12/08/09 11:45	
Radium 226		-0.1	pCi/L							U
Radium 226 precision (±)		0.06	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4217		Laboratory Control Sample				Run: BERTHOLD 770-1_091130A			12/08/09 11:45	
Radium 226		6.7	pCi/L	86		70	130			
Method: E903.0 Batch: 24536										
Sample ID: C09110877-006FMS		Sample Matrix Spike				Run: BERTHOLD 770-1_091207A			12/15/09 14:56	
Radium 226		13	pCi/L	120		70	130			
Sample ID: C09110877-006FMSD		Sample Matrix Spike Duplicate				Run: BERTHOLD 770-1_091207A			12/15/09 14:56	
Radium 226		14	pCi/L	128		70	130	5.5	23	
Sample ID: MB-24536	3	Method Blank				Run: BERTHOLD 770-1_091207A			12/15/09 16:31	
Radium 226		-0.3	pCi/L							U
Radium 226 precision (±)		0.2	pCi/L							
Radium 226 MDC		0.4	pCi/L							
Sample ID: LCS-24536		Laboratory Control Sample				Run: BERTHOLD 770-1_091207A			12/15/09 16:31	
Radium 226		17	pCi/L	113		70	130			

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples

Report Date: 02/26/10
 Work Order: C09110829

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0 Batch: R127565										
Sample ID: LCS-RA-TH-ISO-1043		Laboratory Control Sample								
Thorium 230		5.5	pCi/L	105		70	130			12/10/09 09:00
Run: EGG-ORTEC_091208B										
Sample ID: C09110877-001DMS		Sample Matrix Spike								
Thorium 230		12	pCi/L	101		70	130			12/10/09 14:20
Run: EGG-ORTEC_091208B										
Sample ID: C09110877-001DMSD		Sample Matrix Spike Duplicate								
Thorium 230		11	pCi/L	101		70	130	3.3	41.2	12/10/09 14:20
Run: EGG-ORTEC_091208B										
Sample ID: MB-RA-TH-ISO-1043	3	Method Blank								
Thorium 230		0.003	pCi/L							12/11/09 08:56
Thorium 230 precision (±)		0.08	pCi/L							U
Thorium 230 MDC		0.2	pCi/L							
Method: E907.0 Batch: 24536										
Sample ID: C09110665-006FMS		Sample Matrix Spike								
Thorium 230		0.91	pCi/L	104		70	130			12/14/09 19:45
Run: EGG-ORTEC_091210C										
Sample ID: C09110665-006FMSD		Sample Matrix Spike Duplicate								
Thorium 230		0.90	pCi/L	101		70	130	0.9	43.4	12/14/09 19:45
Run: EGG-ORTEC_091210C										
Sample ID: LCS-24536		Laboratory Control Sample								
Thorium 230		1.9	pCi/L	99		70	130			12/15/09 12:22
Run: EGG-ORTEC_091210C										
Sample ID: MB-24536	3	Method Blank								
Thorium 230		0.03	pCi/L							12/15/09 12:22
Thorium 230 precision (±)		0.09	pCi/L							U
Thorium 230 MDC		0.1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples

Report Date: 02/26/10
 Work Order: C09110829

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: R128649
Sample ID: C09071109-001CMS		Sample Matrix Spike				Run: BECKMAN 6100TA_100104A				01/04/10 09:45
Lead 210		310	pCi/L		137	70	130			S
- Spike response is outside of the acceptance range for this analysis. Since the LCS and the MSD are acceptable the batch is approved.										
Sample ID: C09071109-001CMSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_100104A				01/04/10 09:45
Lead 210		260	pCi/L		114	70	130	18	30	
Sample ID: MB-R128649	3	Method Blank				Run: BECKMAN 6100TA_100104A				01/04/10 09:45
Lead 210		0.1	pCi/L							U
Lead 210 precision (±)		6	pCi/L							
Lead 210 MDC		10	pCi/L							
Sample ID: LCS-R128649		Laboratory Control Sample				Run: BECKMAN 6100TA_100104A				01/04/10 09:45
Lead 210		100	pCi/L		91	70	130			
Method: E909.0M										Batch: 24536
Sample ID: C09110877-002FMS		Sample Matrix Spike				Run: BECKMAN 6100TA_100113B				01/13/10 15:43
Lead 210		130	pCi/L		98	70	130			
Sample ID: C09110877-002FMSD		Sample Matrix Spike Duplicate				Run: BECKMAN 6100TA_100113B				01/13/10 15:43
Lead 210		120	pCi/L		94	70	130	3	30	
Sample ID: MB-24536	3	Method Blank				Run: BECKMAN 6100TA_100113B				01/13/10 15:43
Lead 210		-10	pCi/L							
Lead 210 precision (±)		10	pCi/L							
Lead 210 MDC		20	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration
 U - Not detected at minimum detectable concentration

ND - Not detected at the reporting limit.
 S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: Crow Butte Resources
 Project: Three Crow Baseline Samples

Report Date: 02/26/10
 Work Order: C09110829

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0 Batch: R127563										
Sample ID: LCS-24468	Laboratory Control Sample					Run: EGG-ORTEC_091210A		12/11/09 09:00		
Polonium 210		72	pCi/L	91		70	130			
Sample ID: MB-24468	3	Method Blank				Run: EGG-ORTEC_091210A		12/11/09 09:00		
Polonium 210		-0.10	pCi/L							U
Polonium 210 precision (±)		0.9	pCi/L							
Polonium 210 MDC		2	pCi/L							
Sample ID: C09110877-007FMS	Sample Matrix Spike					Run: EGG-ORTEC_091210A		12/11/09 11:11		
Polonium 210		16	pCi/L	117		70	130			
Sample ID: C09110877-007FMSD	Sample Matrix Spike Duplicate					Run: EGG-ORTEC_091210A		12/11/09 11:11		
Polonium 210		15	pCi/L	106		70	130	9.6	57.5	
Method: E912.0 Batch: PO210-0274										
Sample ID: C09110863-004EMS	Sample Matrix Spike					Run: EGG-ORTEC_091228B		12/29/09 14:45		
Polonium 210		22	pCi/L	82		70	130			
Sample ID: C09110863-004EMSD	Sample Matrix Spike Duplicate					Run: EGG-ORTEC_091228B		12/29/09 14:45		
Polonium 210		30	pCi/L	109		70	130	29	59.6	
Sample ID: LCS-PO210-0274	Laboratory Control Sample					Run: EGG-ORTEC_091228B		12/29/09 14:44		
Polonium 210		17	pCi/L	104		70	130			
Sample ID: MB-PO210-0274	3	Method Blank				Run: EGG-ORTEC_091228B		12/29/09 14:44		
Polonium 210		0.1	pCi/L							U
Polonium 210 precision (±)		0.3	pCi/L							
Polonium 210 MDC		0.6	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



Chain of Custody and Analytical Request Record

PLEASE PRINT- Provide as much information as possible.

Company Name: Crow Butte Resources, Inc.	Project Name, PWS, Permit, Etc. Three Crow Baseline Samples	Sample Origin State:	EPA/State Compliance: Yes <input type="checkbox"/> No <input type="checkbox"/>
Report Mail Address: P.O. Box 169 Crawford, NE 69339	Contact Name: Larry Teahon	Phone/Fax: 308-665-2341	Email: daxmynus@msn.com
Invoice Address: P.O. Box 169 Crawford, NE 69339	Invoice Contact & Phone: Larry Teahon 308-665-2215 ext 114	Purchase Order: 1125	Quote/Bottle Order:

Special Report/Formats – ELI must be notified prior to sample submittal for the following:

DW A2LA
 GSA EDD/EDT (Electronic Data)
 POTW/WWTP Format: _____
 State: _____ LEVEL IV
 Other: _____ NELAC

ANALYSIS REQUESTED

Number of Containers: _____
 Sample Type: A W S V B O
 Air Water Soils/Solids Vegetation Bioassay Other

HNO3, Metals, U dissolved	RAW-F, Common Ions	RAW-UF, Alkalinity	H2SO4-F, NO2, NO3, NH4	HNO3-F, Ra226 dissolved	HNO3-F, Pb210 dissolved	HNO3-F, Th230 dissolved	HCL-F, Po210 dissolved	Raw, UF, Ra226, Unat, Th230, Pb210, Po210, suspended
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SEE ATTACHED
Normal Turnaround (TAT)

RUSH

Contact ELI prior to RUSH sample submittal for charges and scheduling – See Instruction Page

Comments:
NDEQ parameters for baseline sampling. Report on separate sheets. Analyze as per WDEQ Guideline 8 and NRC Reg. Guide 4.14 requirements. Record U as mg/L and µCi/ml and radiometrics as pCi/L.

Shipped by: Hand

Cooler ID(s): Various

Receipt Temp: 5 °C

On Ice: Yes No

Custody Seal Intact: Y N

Signature Match: Y N

SAMPLE IDENTIFICATION (Name, Location, Interval, etc.)	Collection Date	Collection Time	MATRIX	ANALYSIS REQUESTED								SEE ATTACHED	Normal Turnaround (TAT)	RUSH	Comments
				HNO3, Metals, U dissolved	RAW-F, Common Ions	RAW-UF, Alkalinity	H2SO4-F, NO2, NO3, NH4	HNO3-F, Ra226 dissolved	HNO3-F, Pb210 dissolved	HNO3-F, Th230 dissolved	HCL-F, Po210 dissolved				
1 Miller 1	11/20/09		Water	2	1	1	.5	2	2	2	1	8			Please report 12/30/09
2 BOW 2006-5	11/20/09		Water	2	1	1	.5	2	2	2	1	8			Please report 12/30/09
3 BOW 2006-6	11/20/09		Water	2	1	1	.5	2	2	2	1	8			Please report 12/30/09
4 BOW 2006-7	11/20/09		Water	2	1	1	.5	2	2	2	1	8			Please report 12/30/09
5															
6															
7															
8															
9															
10															

LABORATORY USE ONLY

11/20/09 10:45

Custody Record MUST be Signed	Relinquished by (print): _____ Date/Time: _____ Signature: _____	Received by (print): _____ Date/Time: _____ Signature: _____
	Relinquished by (print): <u>Walter D. ...</u> Date/Time: <u>11/24/09 10:45 am</u> Signature: <u>[Signature]</u>	Received by (print): _____ Date/Time: _____ Signature: _____
	Sample Disposal: Return to Client: No Lab Disposal: YES	Received by Laboratory: <u>[Signature]</u> Date/Time: <u>11/24/09 1043</u> Signature: _____

In certain circumstances, samples submitted to Energy Laboratories, Inc. may be subcontracted to other certified laboratories in order to complete the analysis requested. This serves as notice of this possibility. All sub-contract data will be clearly notated on your analytical report. Visit our web site at www.energylab.com for additional information, downloadable fee schedule, forms, and links.

CROW BUTTE RESOURCES, INC.
CROW BUTTE PROJECT

NO₂

DATE: 11/22/09

ANALYST: sm

STANDARD CURVE DATA

NO ₂	BL	0.01	0.05	0.10			
Abs	0	032	164	330			
Abs							

SAMPLE #	VOLUME	Df	Abs	NO ₂ , mg/L
1 Miller 1	10 ml	1	0.001	<0.01
2 BOW-2006-5	10 ml	1	0.006 0.003	<0.01
3 BOW-2006-6	10 ml	1	0.018	<0.01
4 BOW-2006-7	10 ml	1	0.014	<0.01
5				
Dup BOW-2006-7	10 ml	1	0.016	<0.01
6				
7				
8				
9				
10				
Dup				
11				
12				
13				
14				
15				
Dup				
16				
17				
18				
19				
20				
Dup				
21				
22				
23				
24				
25				
Dup				

Energy Laboratories Inc

Workorder Receipt Checklist



C09110829

Crow Butte Resources

Login completed by: Corinne Wagner

Date Received: 11/24/2009

Reviewed by: BL2000\tedwards

Received by: ckw

Reviewed Date: 11/30/2009

Carrier name: Hand Del

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 5°C On Ice | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

Samples were filtered and preserved with HNO3 by lab for Dissolved analyses.



CLIENT: Crow Butte Resources
Project: Three Crow Baseline Samples
Sample Delivery Group: C09110829

Report Date: 02/26/10

CASE NARRATIVE

PB210 ANALYSIS

The MDC for Pb-210 per RG 4.14 is 1 pCi/L. The current technique can achieve an MDC of about 2 pCi/L to 5 pCi/L if we have sufficient sample to process 1.0 L, and this is reported on a sample specific basis. Please consult with your local regulatory agency prior to using these results for compliance purposes.

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS USING EPA 505

Data for Atrazine and Simazine are reported from EPA 525.2, not from EPA 505. Data reported by ELI using EPA method 505 reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT



ANALYTICAL SUMMARY REPORT

February 22, 2010

Crow Butte Resources
86 Crow Butte Rd
Crawford, NE 69339

Workorder No.: C09120699 Quote ID: C1125 - Crow Butte Uranium Project

Project Name: Three Crow Butte Baseline Samples

Energy Laboratories, Inc. received the following 4 samples for Crow Butte Resources on 12/21/2009 for analysis.

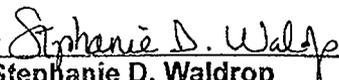
Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C09120699-001	Miller 1	12/18/09 00:00	12/21/09	Aqueous	Metals by ICP/ICPMS, Dissolved Metals by ICP/ICPMS, Suspended Alkalinity QA Calculations Conductivity Sample Filtering Fluoride E300.0 Anions Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite pH Digestion, Total Metals Lead 210, Dissolved Lead 210, Suspended Polonium 210, Dissolved Polonium 210, Suspended Radium 226, Dissolved Radium 226, Suspended Thorium, Isotopic Thorium, Suspended Isotopic Solids, Total Dissolved
C09120699-002	BOW 2006-5	12/18/09 00:00	12/21/09	Aqueous	Same As Above
C09120699-003	BOW 2006-6	12/18/09 00:00	12/21/09	Aqueous	Same As Above
C09120699-004	BOW 2006-7	12/18/09 00:00	12/21/09	Aqueous	Same As Above

Any exceptions or problems with the analyses are noted in the Laboratory Analytical Report, the QA/QC Summary Report, or the Case Narrative.

The results as reported relate only to the item(s) submitted for testing.

If you have any questions regarding these test results, please call.

Report Approved By:


Stephanie D. Waldrop
Reporting Supervisor



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples
 Lab ID: C09120699-001
 Client Sample ID: Miller 1

Report Date: 02/22/10
 Collection Date: 12/18/09
 Date Received: 12/21/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	243	mg/L		5		A2320 B	12/22/09 12:49 / dvg
Carbonate as CO ₃	ND	mg/L		5		A2320 B	12/22/09 12:49 / dvg
Bicarbonate as HCO ₃	296	mg/L		5		A2320 B	12/22/09 12:49 / dvg
Calcium	72	mg/L		1		E200.7	12/31/09 14:05 / cp
Chloride	6	mg/L		1		E300.0	12/23/09 21:35 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	12/22/09 10:24 / dvg
Magnesium	6	mg/L		1		E200.7	12/31/09 14:05 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	12/30/09 11:28 / jal
Nitrogen, Nitrate+Nitrite as N	2.5	mg/L		0.1		E353.2	12/29/09 13:52 / jal
Potassium	9	mg/L		1		E200.7	12/31/09 14:05 / cp
Silica	65.4	mg/L		0.2		E200.7	12/31/09 14:05 / cp
Sodium	19	mg/L		1		E200.7	12/31/09 14:05 / cp
Sulfate	10	mg/L		1		E300.0	12/23/09 21:35 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	475	umhos/cm		1		A2510 B	12/22/09 10:55 / lr
pH	7.68	s.u.		0.01		A4500-H B	12/22/09 10:55 / lr
Solids, Total Dissolved TDS @ 180 C	312	mg/L		10		A2540 C	12/22/09 12:00 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	12/31/09 14:05 / cp
Arsenic	0.003	mg/L		0.001		E200.8	12/22/09 13:32 / sml
Barium	0.1	mg/L		0.1		E200.8	12/22/09 13:32 / sml
Boron	ND	mg/L		0.1		E200.8	12/24/09 00:05 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/22/09 13:32 / sml
Chromium	ND	mg/L		0.05		E200.8	12/22/09 13:32 / sml
Copper	ND	mg/L		0.01		E200.8	12/22/09 13:32 / sml
Iron	ND	mg/L		0.03		E200.8	12/22/09 13:32 / sml
Lead	ND	mg/L		0.001		E200.8	12/22/09 13:32 / sml
Manganese	ND	mg/L		0.01		E200.8	12/22/09 13:32 / sml
Mercury	ND	mg/L		0.001		E200.8	12/22/09 13:32 / sml
Molybdenum	ND	mg/L		0.1		E200.8	12/22/09 13:32 / sml
Nickel	ND	mg/L		0.05		E200.8	12/22/09 13:32 / sml
Selenium	0.003	mg/L		0.001		E200.8	12/22/09 13:32 / sml
Uranium	0.0168	mg/L		0.0003		E200.8	12/22/09 13:32 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/22/09 13:32 / sml
Zinc	ND	mg/L		0.01		E200.8	12/24/09 00:05 / sml
METALS - SUSPENDED							
Uranium	0.0009	mg/L		0.0003		E200.8	01/05/10 00:04 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples
 Lab ID: C09120699-001
 Client Sample ID: Miller 1

Report Date: 02/22/10
 Collection Date: 12/18/09
 Date Received: 12/21/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<1.2	pCi/L	U	1.2		E909.0M	01/15/10 09:00 / dm
Lead 210 precision (±)	0.7	pCi/L				E909.0M	01/15/10 09:00 / dm
Lead 210 MDC	1.2	pCi/L				E909.0M	01/15/10 09:00 / dm
Polonium 210	<0.7	pCi/L	U	0.7		E912.0	12/29/09 12:19 / plj
Polonium 210 precision (±)	0.5	pCi/L				E912.0	12/29/09 12:19 / plj
Polonium 210 MDC	0.7	pCi/L				E912.0	12/29/09 12:19 / plj
Radium 226	<0.19	pCi/L	U	0.19		E903.0	01/04/10 14:53 / jah
Radium 226 precision (±)	0.08	pCi/L				E903.0	01/04/10 14:53 / jah
Radium 226 MDC	0.19	pCi/L				E903.0	01/04/10 14:53 / jah
Thorium 230	<0.2	pCi/L	U	0.2		E907.0	12/30/09 13:45 / dmf
Thorium 230 precision (±)	0.07	pCi/L				E907.0	12/30/09 13:45 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	12/30/09 13:45 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0M	02/09/10 16:14 / dm
Lead 210 precision (±)	0.3	pCi/L				E909.0M	02/09/10 16:14 / dm
Lead 210 MDC	0.5	pCi/L				E909.0M	02/09/10 16:14 / dm
Polonium 210	<0.2	pCi/L	U	0.2		E912.0	01/04/10 09:49 / plj
Polonium 210 precision (±)	0.09	pCi/L				E912.0	01/04/10 09:49 / plj
Polonium 210 MDC	0.2	pCi/L				E912.0	01/04/10 09:49 / plj
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/04/10 23:58 / jah
Radium 226 precision (±)	0.09	pCi/L				E903.0	01/04/10 23:58 / jah
Radium 226 MDC	0.1	pCi/L				E903.0	01/04/10 23:58 / jah
Thorium 230	<0.07	pCi/L	U	0.07		E907.0	01/05/10 15:10 / dmf
Thorium 230 precision (±)	0.05	pCi/L				E907.0	01/05/10 15:10 / dmf
Thorium 230 MDC	0.07	pCi/L				E907.0	01/05/10 15:10 / dmf
DATA QUALITY							
A/C Balance (± 5)	-3.32	%				Calculation	01/04/10 09:58 / kbh
Anions	5.43	meq/L				Calculation	01/04/10 09:58 / kbh
Cations	5.08	meq/L				Calculation	01/04/10 09:58 / kbh
Solids, Total Dissolved Calculated	360	mg/L				Calculation	01/04/10 09:58 / kbh
TDS Balance (0.80 - 1.20)	0.870					Calculation	01/04/10 09:58 / kbh

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples
 Lab ID: C09120699-002
 Client Sample ID: BOW 2006-5

Report Date: 02/22/10
 Collection Date: 12/18/09
 Date Received: 12/21/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	383	mg/L		5		A2320 B	12/22/09 12:58 / dvg
Carbonate as CO ₃	ND	mg/L		5		A2320 B	12/22/09 12:58 / dvg
Bicarbonate as HCO ₃	467	mg/L		5		A2320 B	12/22/09 12:58 / dvg
Calcium	97	mg/L		1		E200.7	12/31/09 14:17 / cp
Chloride	13	mg/L		1		E300.0	01/08/10 17:05 / ljl
Fluoride	1.3	mg/L		0.1		A4500-F C	12/22/09 10:27 / dvg
Magnesium	14	mg/L		1		E200.7	01/05/10 13:52 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/30/09 11:30 / jal
Nitrogen, Nitrate+Nitrite as N	0.1	mg/L		0.1		E353.2	12/29/09 13:54 / jal
Potassium	12	mg/L		1		E200.7	12/31/09 14:17 / cp
Silica	55.6	mg/L		0.2		E200.7	12/31/09 14:17 / cp
Sodium	31	mg/L		1		E200.7	12/31/09 14:17 / cp
Sulfate	23	mg/L		1		E300.0	01/08/10 17:05 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	728	umhos/cm		1		A2510 B	12/22/09 11:01 / lr
pH	7.86	s.u.		0.01		A4500-H B	12/22/09 11:01 / lr
Solids, Total Dissolved TDS @ 180 C	442	mg/L		10		A2540 C	12/22/09 12:00 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	12/31/09 14:17 / cp
Arsenic	0.006	mg/L		0.001		E200.8	12/22/09 13:37 / sml
Barium	0.2	mg/L		0.1		E200.8	12/22/09 13:37 / sml
Boron	ND	mg/L		0.1		E200.8	12/24/09 00:10 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/22/09 13:37 / sml
Chromium	ND	mg/L		0.05		E200.8	12/22/09 13:37 / sml
Copper	ND	mg/L		0.01		E200.8	12/22/09 13:37 / sml
Iron	ND	mg/L		0.03		E200.8	12/22/09 13:37 / sml
Lead	0.003	mg/L		0.001		E200.8	12/22/09 13:37 / sml
Manganese	0.08	mg/L		0.01		E200.8	12/22/09 13:37 / sml
Mercury	ND	mg/L		0.001		E200.8	12/22/09 13:37 / sml
Molybdenum	ND	mg/L		0.1		E200.8	12/22/09 13:37 / sml
Nickel	ND	mg/L		0.05		E200.8	12/22/09 13:37 / sml
Selenium	0.001	mg/L		0.001		E200.8	12/22/09 13:37 / sml
Uranium	0.0264	mg/L		0.0003		E200.8	12/22/09 13:37 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/22/09 13:37 / sml
Zinc	1.22	mg/L		0.01		E200.8	12/24/09 00:10 / sml
METALS - SUSPENDED							
Uranium	0.0005	mg/L		0.0003		E200.8	01/05/10 00:08 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples
 Lab ID: C09120699-002
 Client Sample ID: BOW 2006-5

Report Date: 02/22/10
 Collection Date: 12/18/09
 Date Received: 12/21/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<1.2	pCi/L	U	1.2		E909.0M	01/15/10 09:00 / dm
Lead 210 precision (±)	0.7	pCi/L				E909.0M	01/15/10 09:00 / dm
Lead 210 MDC	1.2	pCi/L				E909.0M	01/15/10 09:00 / dm
Polonium 210	<0.5	pCi/L	U	0.5		E912.0	12/29/09 12:19 / plj
Polonium 210 precision (±)	0.3	pCi/L				E912.0	12/29/09 12:19 / plj
Polonium 210 MDC	0.5	pCi/L				E912.0	12/29/09 12:19 / plj
Radium 226	<0.18	pCi/L	U	0.18		E903.0	01/04/10 14:53 / jah
Radium 226 precision (±)	0.12	pCi/L				E903.0	01/04/10 14:53 / jah
Radium 226 MDC	0.18	pCi/L				E903.0	01/04/10 14:53 / jah
Thorium 230	<0.2	pCi/L	U	0.2		E907.0	12/30/09 13:45 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E907.0	12/30/09 13:45 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	12/30/09 13:45 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0M	02/09/10 16:14 / dm
Lead 210 precision (±)	0.3	pCi/L				E909.0M	02/09/10 16:14 / dm
Lead 210 MDC	0.5	pCi/L				E909.0M	02/09/10 16:14 / dm
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	01/04/10 09:49 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	01/04/10 09:49 / plj
Polonium 210 MDC	0.3	pCi/L				E912.0	01/04/10 09:49 / plj
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/04/10 23:58 / jah
Radium 226 precision (±)	0.08	pCi/L				E903.0	01/04/10 23:58 / jah
Radium 226 MDC	0.1	pCi/L				E903.0	01/04/10 23:58 / jah
Thorium 230	<0.06	pCi/L	U	0.06		E907.0	01/05/10 15:10 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E907.0	01/05/10 15:10 / dmf
Thorium 230 MDC	0.06	pCi/L				E907.0	01/05/10 15:10 / dmf
DATA QUALITY							
A/C Balance (± 5)	-5.62	%				Calculation	01/12/10 09:59 / kbh
Anions	8.58	meq/L				Calculation	01/12/10 09:59 / kbh
Cations	7.67	meq/L				Calculation	01/12/10 09:59 / kbh
Solids, Total Dissolved Calculated	493	mg/L				Calculation	01/12/10 09:59 / kbh
TDS Balance (0.80 - 1.20)	0.900					Calculation	01/12/10 09:59 / kbh

- The Anion / Cation balance was confirmed by re-analysis.

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples
 Lab ID: C09120699-003
 Client Sample ID: BOW 2006-6

Report Date: 02/22/10
 Collection Date: 12/18/09
 Date Received: 12/21/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO3	173	mg/L		5		A2320 B	12/22/09 13:06 / dvg
Carbonate as CO3	ND	mg/L		5		A2320 B	12/22/09 13:06 / dvg
Bicarbonate as HCO3	211	mg/L		5		A2320 B	12/22/09 13:06 / dvg
Calcium	46	mg/L		1		E200.7	12/31/09 14:25 / cp
Chloride	4	mg/L		1		E300.0	12/23/09 22:41 / ljl
Fluoride	0.4	mg/L		0.1		A4500-F C	12/22/09 10:30 / dvg
Magnesium	6	mg/L		1		E200.7	12/31/09 14:25 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH3 G	12/30/09 11:38 / jal
Nitrogen, Nitrate+Nitrite as N	1.8	mg/L		0.1		E353.2	12/29/09 13:57 / jal
Potassium	6	mg/L		1		E200.7	12/31/09 14:25 / cp
Silica	64.7	mg/L		0.2		E200.7	12/31/09 14:25 / cp
Sodium	16	mg/L		1		E200.7	12/31/09 14:25 / cp
Sulfate	9	mg/L		1		E300.0	12/23/09 22:41 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	345	umhos/cm		1		A2510 B	12/22/09 11:04 / lr
pH	7.96	s.u.		0.01		A4500-H B	12/22/09 11:04 / lr
Solids, Total Dissolved TDS @ 180 C	221	mg/L		10		A2540 C	12/22/09 12:00 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	12/31/09 14:25 / cp
Arsenic	0.005	mg/L		0.001		E200.8	12/22/09 14:05 / sml
Barium	0.2	mg/L		0.1		E200.8	12/22/09 14:05 / sml
Boron	ND	mg/L		0.1		E200.8	12/24/09 00:15 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/22/09 14:05 / sml
Chromium	ND	mg/L		0.05		E200.8	12/22/09 14:05 / sml
Copper	ND	mg/L		0.01		E200.8	12/22/09 14:05 / sml
Iron	0.04	mg/L		0.03		E200.8	12/22/09 14:05 / sml
Lead	0.003	mg/L		0.001		E200.8	12/22/09 14:05 / sml
Manganese	ND	mg/L		0.01		E200.8	12/22/09 14:05 / sml
Mercury	ND	mg/L		0.001		E200.8	12/22/09 14:05 / sml
Molybdenum	ND	mg/L		0.1		E200.8	12/22/09 14:05 / sml
Nickel	ND	mg/L		0.05		E200.8	12/22/09 14:05 / sml
Selenium	0.003	mg/L		0.001		E200.8	12/22/09 14:05 / sml
Uranium	0.0097	mg/L		0.0003		E200.8	12/22/09 14:05 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/22/09 14:05 / sml
Zinc	0.64	mg/L		0.01		E200.8	12/24/09 00:15 / sml
METALS - SUSPENDED							
Uranium	0.0011	mg/L		0.0003		E200.8	01/05/10 00:12 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples
 Lab ID: C09120699-003
 Client Sample ID: BOW 2006-6

Report Date: 02/22/10
 Collection Date: 12/18/09
 Date Received: 12/21/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	1.3	pCi/L		1.2		E909.0M	01/15/10 09:00 / dm
Lead 210 precision (±)	0.8	pCi/L				E909.0M	01/15/10 09:00 / dm
Lead 210 MDC	1.2	pCi/L				E909.0M	01/15/10 09:00 / dm
Polonium 210	<0.4	pCi/L	U	0.4		E912.0	12/29/09 12:19 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/29/09 12:19 / plj
Polonium 210 MDC	0.4	pCi/L				E912.0	12/29/09 12:19 / plj
Radium 226	<0.20	pCi/L	U	0.20		E903.0	01/04/10 14:53 / jah
Radium 226 precision (±)	0.12	pCi/L				E903.0	01/04/10 14:53 / jah
Radium 226 MDC	0.20	pCi/L				E903.0	01/04/10 14:53 / jah
Thorium 230	<0.1	pCi/L	U	0.1		E907.0	12/30/09 13:45 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E907.0	12/30/09 13:45 / dmf
Thorium 230 MDC	0.1	pCi/L				E907.0	12/30/09 13:45 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0M	02/09/10 16:14 / dm
Lead 210 precision (±)	0.3	pCi/L				E909.0M	02/09/10 16:14 / dm
Lead 210 MDC	0.5	pCi/L				E909.0M	02/09/10 16:14 / dm
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	01/04/10 09:49 / plj
Polonium 210 precision (±)	0.1	pCi/L				E912.0	01/04/10 09:49 / plj
Polonium 210 MDC	0.3	pCi/L				E912.0	01/04/10 09:49 / plj
Radium 226	0.2	pCi/L		0.1		E903.0	01/04/10 23:58 / jah
Radium 226 precision (±)	0.1	pCi/L				E903.0	01/04/10 23:58 / jah
Radium 226 MDC	0.1	pCi/L				E903.0	01/04/10 23:58 / jah
Thorium 230	0.2	pCi/L		0.05		E907.0	01/05/10 15:10 / dmf
Thorium 230 precision (±)	0.06	pCi/L				E907.0	01/05/10 15:10 / dmf
Thorium 230 MDC	0.05	pCi/L				E907.0	01/05/10 15:10 / dmf
DATA QUALITY							
A/C Balance (± 5)	-3.84	%				Calculation	01/04/10 09:59 / kbh
Anions	3.92	meq/L				Calculation	01/04/10 09:59 / kbh
Cations	3.63	meq/L				Calculation	01/04/10 09:59 / kbh
Solids, Total Dissolved Calculated	281	mg/L				Calculation	01/04/10 09:59 / kbh
TDS Balance (0.80 - 1.20)	0.790					Calculation	01/04/10 09:59 / kbh

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples
 Lab ID: C09120699-004
 Client Sample ID: BOW 2006-7

Report Date: 02/22/10
 Collection Date: 12/18/09
 Date Received: 12/21/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
MAJOR IONS							
Alkalinity, Total as CaCO ₃	168	mg/L		5		A2320 B	12/22/09 13:14 / dvg
Carbonate as CO ₃	ND	mg/L		5		A2320 B	12/22/09 13:14 / dvg
Bicarbonate as HCO ₃	205	mg/L		5		A2320 B	12/22/09 13:14 / dvg
Calcium	33	mg/L		1		E200.7	12/31/09 14:29 / cp
Chloride	9	mg/L		1		E300.0	01/08/10 17:20 / ljl
Fluoride	0.6	mg/L		0.1		A4500-F C	12/22/09 10:33 / dvg
Magnesium	3	mg/L		1		E200.7	12/31/09 14:29 / cp
Nitrogen, Ammonia as N	ND	mg/L		0.05		A4500-NH ₃ G	12/30/09 11:40 / jal
Nitrogen, Nitrate+Nitrite as N	1.2	mg/L		0.1		E353.2	12/29/09 13:59 / jal
Potassium	8	mg/L		1		E200.7	12/31/09 14:29 / cp
Silica	72.2	mg/L		0.2		E200.7	12/31/09 14:29 / cp
Sodium	33	mg/L		1		E200.7	01/05/10 14:00 / cp
Sulfate	11	mg/L		1		E300.0	01/08/10 17:20 / ljl
PHYSICAL PROPERTIES							
Conductivity @ 25 C	351	umhos/cm		1		A2510 B	12/22/09 11:07 / lr
pH	7.96	s.u.		0.01		A4500-H B	12/22/09 11:07 / lr
Solids, Total Dissolved TDS @ 180 C	229	mg/L		10		A2540 C	12/22/09 12:01 / lr
METALS - DISSOLVED							
Aluminum	ND	mg/L		0.1		E200.7	12/31/09 14:29 / cp
Arsenic	0.005	mg/L		0.001		E200.8	12/22/09 14:11 / sml
Barium	0.2	mg/L		0.1		E200.8	12/22/09 14:11 / sml
Boron	ND	mg/L		0.1		E200.8	12/24/09 00:20 / sml
Cadmium	ND	mg/L		0.005		E200.8	12/22/09 14:11 / sml
Chromium	ND	mg/L		0.05		E200.8	12/22/09 14:11 / sml
Copper	ND	mg/L		0.01		E200.8	12/22/09 14:11 / sml
Iron	ND	mg/L		0.03		E200.8	12/22/09 14:11 / sml
Lead	0.001	mg/L		0.001		E200.8	12/22/09 14:11 / sml
Manganese	ND	mg/L		0.01		E200.8	12/22/09 14:11 / sml
Mercury	ND	mg/L		0.001		E200.8	12/22/09 14:11 / sml
Molybdenum	ND	mg/L		0.1		E200.8	12/22/09 14:11 / sml
Nickel	ND	mg/L		0.05		E200.8	12/22/09 14:11 / sml
Selenium	0.003	mg/L		0.001		E200.8	12/22/09 14:11 / sml
Uranium	0.0122	mg/L		0.0003		E200.8	12/22/09 14:11 / sml
Vanadium	ND	mg/L		0.1		E200.8	12/22/09 14:11 / sml
Zinc	0.30	mg/L		0.01		E200.8	12/24/09 00:20 / sml
METALS - SUSPENDED							
Uranium	0.0009	mg/L		0.0003		E200.8	01/05/10 00:33 / ts

Report Definitions: RL - Analyte reporting limit.
 QCL - Quality control limit.
 U - Not detected at minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.



LABORATORY ANALYTICAL REPORT

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples
 Lab ID: C09120699-004
 Client Sample ID: BOW 2006-7

Report Date: 02/22/10
 Collection Date: 12/18/09
 Date Received: 12/21/09
 Matrix: Aqueous

Analyses	Result	Units	Qualifiers	RL	MCL/ QCL	Method	Analysis Date / By
RADIONUCLIDES - DISSOLVED							
Lead 210	<1.2	pCi/L	U	1.2		E909.0M	01/15/10 09:00 / dm
Lead 210 precision (±)	0.7	pCi/L				E909.0M	01/15/10 09:00 / dm
Lead 210 MDC	1.2	pCi/L				E909.0M	01/15/10 09:00 / dm
Polonium 210	<0.6	pCi/L	U	0.6		E912.0	12/29/09 12:19 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	12/29/09 12:19 / plj
Polonium 210 MDC	0.6	pCi/L				E912.0	12/29/09 12:19 / plj
Radium 226	<0.18	pCi/L	U	0.18		E903.0	01/04/10 14:53 / jah
Radium 226 precision (±)	0.11	pCi/L				E903.0	01/04/10 14:53 / jah
Radium 226 MDC	0.18	pCi/L				E903.0	01/04/10 14:53 / jah
Thorium 230	<0.2	pCi/L	U	0.2		E907.0	12/30/09 13:45 / dmf
Thorium 230 precision (±)	0.09	pCi/L				E907.0	12/30/09 13:45 / dmf
Thorium 230 MDC	0.2	pCi/L				E907.0	12/30/09 13:45 / dmf
RADIONUCLIDES - SUSPENDED							
Lead 210	<0.5	pCi/L	U	0.5		E909.0M	02/09/10 16:14 / dm
Lead 210 precision (±)	0.3	pCi/L				E909.0M	02/09/10 16:14 / dm
Lead 210 MDC	0.5	pCi/L				E909.0M	02/09/10 16:14 / dm
Polonium 210	<0.3	pCi/L	U	0.3		E912.0	01/04/10 09:49 / plj
Polonium 210 precision (±)	0.2	pCi/L				E912.0	01/04/10 09:49 / plj
Polonium 210 MDC	0.3	pCi/L				E912.0	01/04/10 09:49 / plj
Radium 226	<0.1	pCi/L	U	0.1		E903.0	01/04/10 23:58 / jah
Radium 226 precision (±)	0.08	pCi/L				E903.0	01/04/10 23:58 / jah
Radium 226 MDC	0.1	pCi/L				E903.0	01/04/10 23:58 / jah
Thorium 230	<0.08	pCi/L	U	0.08		E907.0	01/05/10 15:10 / dmf
Thorium 230 precision (±)	0.04	pCi/L				E907.0	01/05/10 15:10 / dmf
Thorium 230 MDC	0.08	pCi/L				E907.0	01/05/10 15:10 / dmf
DATA QUALITY							
A/C Balance (± 5)	-5.53	%				Calculation	01/12/10 10:05 / kbh
Anions	3.96	meq/L				Calculation	01/12/10 10:05 / kbh
Cations	3.55	meq/L				Calculation	01/12/10 10:05 / kbh
Solids, Total Dissolved Calculated	295	mg/L				Calculation	01/12/10 10:05 / kbh
TDS Balance (0.80 - 1.20)	0.780					Calculation	01/12/10 10:05 / kbh

- The Anion / Cation balance was confirmed by re-analysis.

Report Definitions:
 RL - Analyte reporting limit.
 QCL - Quality control limit.
 MDC - Minimum detectable concentration

MCL - Maximum contaminant level.
 ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Butte Baseline Samples

Report Date: 02/22/10
Work Order: C09120699

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B										Batch: R127928
Sample ID: MBLK	3	Method Blank					Run: MANTECH_091222B			12/22/09 12:07
Alkalinity, Total as CaCO ₃		4	mg/L	1						
Carbonate as CO ₃		ND	mg/L	1						
Bicarbonate as HCO ₃		5	mg/L	1						
Sample ID: LCS1		Laboratory Control Sample					Run: MANTECH_091222B			12/22/09 12:23
Alkalinity, Total as CaCO ₃		192	mg/L	5.0	94	90	110			
Sample ID: LCS		Laboratory Control Sample					Run: MANTECH_091222B			12/22/09 12:33
Alkalinity, Total as CaCO ₃		53.8	mg/L	5.0	99	90	110			
Sample ID: C09120699-004AMS		Sample Matrix Spike					Run: MANTECH_091222B			12/22/09 13:22
Alkalinity, Total as CaCO ₃		286	mg/L	5.0	94	80	120			
Sample ID: C09120699-004AMSD		Sample Matrix Spike Duplicate					Run: MANTECH_091222B			12/22/09 13:31
Alkalinity, Total as CaCO ₃		284	mg/L	5.0	92	80	120	0.9	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Butte Baseline Samples

Report Date: 02/22/10
Work Order: C09120699

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A2510 B										Analytical Run: ORION555A-2_091222A	
Sample ID: ICV2_091222_1		Initial Calibration Verification Standard								12/22/09 10:41	
Conductivity @ 25 C		1380	umhos/cm	1.0	97	90	110				
Method: A2510 B										Batch: 091222_1_PH-W_555A-2	
Sample ID: MBLK1_091222_1		Method Blank								Run: ORION555A-2_091222A	12/22/09 10:37
Conductivity @ 25 C		0.9	umhos/cm	0.2							
Sample ID: C09120699-004ADUP		Sample Duplicate								Run: ORION555A-2_091222A	12/22/09 11:10
Conductivity @ 25 C		350	umhos/cm	1.0				0.3	10		

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Butte Baseline Samples

Report Date: 02/22/10
Work Order: C09120699

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 091222_1_SLDS-TDS-W		
Sample ID: MBLK1_091222		Method Blank					Run: BAL-1_091222B			12/22/09 11:59
Solids, Total Dissolved TDS @ 180 C		ND	mg/L	10						
Sample ID: LCS1_091222		Laboratory Control Sample					Run: BAL-1_091222B			12/22/09 11:59
Solids, Total Dissolved TDS @ 180 C		992	mg/L	10	99	90	110			
Sample ID: C09120707-002AMS		Sample Matrix Spike					Run: BAL-1_091222B			12/22/09 12:09
Solids, Total Dissolved TDS @ 180 C		2630	mg/L	10	105	90	110			
Sample ID: C09120707-002AMSD		Sample Matrix Spike Duplicate					Run: BAL-1_091222B			12/22/09 12:09
Solids, Total Dissolved TDS @ 180 C		2600	mg/L	10	102	90	110	1.2	10	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Butte Baseline Samples

Report Date: 02/22/10
Work Order: C09120699

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-F C										Batch: R127908
Sample ID: MBLK Fluoride		Method Blank ND	mg/L	0.05						Run: MANTECH_091222A 12/22/09 10:16
Sample ID: LCS Fluoride		Laboratory Control Sample 1.00	mg/L	0.10	100	90	110			Run: MANTECH_091222A 12/22/09 10:18
Sample ID: C09120705-001BMS Fluoride		Sample Matrix Spike 1.47	mg/L	0.10	103	80	120			Run: MANTECH_091222A 12/22/09 10:38
Sample ID: C09120705-001BMSD Fluoride		Sample Matrix Spike Duplicate 1.47	mg/L	0.10	103	80	120	0	10	Run: MANTECH_091222A 12/22/09 10:41

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Butte Baseline Samples

Report Date: 02/22/10
Work Order: C09120699

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual	
Method: A4500-H B										Analytical Run: ORION555A-2_091222A	
Sample ID: ICV1_091222_1		Initial Calibration Verification Standard								12/22/09 10:39	
pH		6.90	s.u.	0.010	101	98	102				
Method: A4500-H B										Batch: 091222_1_PH-W_555A-2	
Sample ID: C09120699-004ADUP		Sample Duplicate								Run: ORION555A-2_091222A	12/22/09 11:10
pH		7.98	s.u.	0.010				0.3	10		

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Butte Baseline Samples

Report Date: 02/22/10
Work Order: C09120699

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G										Batch: R128144
Sample ID: MBLK-1		Method Blank								Run: TECHNICON_091230A 12/30/09 10:48
Nitrogen, Ammonia as N		0.03	mg/L	0.02						
Sample ID: LCS-2		Laboratory Control Sample								Run: TECHNICON_091230A 12/30/09 10:50
Nitrogen, Ammonia as N		18.0	mg/L	0.20	90	80	120			
Sample ID: C09120699-002DMS		Sample Matrix Spike								Run: TECHNICON_091230A 12/30/09 11:32
Nitrogen, Ammonia as N		2.29	mg/L	0.050	113	80	120			
Sample ID: C09120699-002DMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_091230A 12/30/09 11:34
Nitrogen, Ammonia as N		2.32	mg/L	0.050	115	80	120	1.3	20	

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples

Report Date: 02/22/10
 Work Order: C09120699

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: R128212		
Sample ID: MB-091231A	6	Method Blank				Run: ICP2-C_091231A		12/31/09 13:07		
Aluminum		ND	mg/L	0.03						
Calcium		ND	mg/L	0.2						
Magnesium		ND	mg/L	0.09						
Potassium		ND	mg/L	0.1						
Silicon		0.04	mg/L	0.01						
Sodium		ND	mg/L	0.10						
Sample ID: LFB-091231A	6	Laboratory Fortified Blank				Run: ICP2-C_091231A		12/31/09 13:11		
Aluminum		0.906	mg/L	0.10	91	85	115			
Calcium		47.8	mg/L	0.50	96	85	115			
Magnesium		47.6	mg/L	0.50	95	85	115			
Potassium		44.7	mg/L	0.50	89	85	115			
Silicon		0.459	mg/L	0.015	93	85	115			
Sodium		44.6	mg/L	0.50	89	85	115			
Sample ID: C09120699-001CMS2	6	Sample Matrix Spike				Run: ICP2-C_091231A		12/31/09 14:09		
Aluminum		1.94	mg/L	0.10	95	70	130			
Calcium		166	mg/L	1.0	92	70	130			
Magnesium		102	mg/L	1.0	94	70	130			
Potassium		99.0	mg/L	1.0	89	70	130			
Silicon		30.2	mg/L	0.10		70	130			A
Sodium		113	mg/L	1.0	93	70	130			
Sample ID: C09120699-001CMSD	6	Sample Matrix Spike Duplicate				Run: ICP2-C_091231A		12/31/09 14:13		
Aluminum		2.00	mg/L	0.10	98	70	130	2.8	20	
Calcium		171	mg/L	1.0	97	70	130	2.9	20	
Magnesium		104	mg/L	1.0	97	70	130	2.4	20	
Potassium		101	mg/L	1.0	90	70	130	1.8	20	
Silicon		30.8	mg/L	0.10		70	130	2	20	A
Sodium		116	mg/L	1.0	96	70	130	2.8	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples

Report Date: 02/22/10
 Work Order: C09120699

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7								Batch: R128322		
Sample ID: MB-100105A	2	Method Blank						Run: ICP2-C_100105A		01/05/10 12:40
Magnesium		ND	mg/L	0.09						
Sodium		ND	mg/L	0.10						
Sample ID: LFB-100105A	2	Laboratory Fortified Blank						Run: ICP2-C_100105A		01/05/10 12:44
Magnesium		48.0	mg/L	0.50	96	85	115			
Sodium		46.4	mg/L	0.50	93	85	115			
Sample ID: C10010007-004AMS2	2	Sample Matrix Spike						Run: ICP2-C_100105A		01/05/10 14:44
Magnesium		590	mg/L	1.0	91	70	130			
Sodium		1750	mg/L	2.3	96	70	130			
Sample ID: C10010007-004AMSD	2	Sample Matrix Spike Duplicate						Run: ICP2-C_100105A		01/05/10 14:48
Magnesium		596	mg/L	1.0	92	70	130	1	20	
Sodium		1800	mg/L	2.3	106	70	130	2.8	20	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Butte Baseline Samples

Report Date: 02/22/10
Work Order: C09120699

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: 24761B
Sample ID: MB-24761		Method Blank								Run: ICPMS2-C_100104A 01/04/10 23:39
Uranium		0.0002	mg/L	6E-05						
Sample ID: LCS2-24761		Laboratory Control Sample								Run: ICPMS2-C_100104A 01/04/10 23:43
Uranium		0.107	mg/L	0.00030	107	85	115			
Sample ID: C09120802-002IMS4		Sample Matrix Spike								Run: ICPMS2-C_100104A 01/05/10 00:45
Uranium		0.0623	mg/L	0.00030	122	70	130			
Sample ID: C09120802-002IMSD4		Sample Matrix Spike Duplicate								Run: ICPMS2-C_100104A 01/05/10 00:49
Uranium		0.0614	mg/L	0.00030	120	70	130	1.4	20	

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Butte Baseline Samples

Report Date: 02/22/10
Work Order: C09120699

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R127956
Sample ID: LRB	14	Method Blank						Run: ICPMS4-C_091222A	12/22/09 11:40	
Arsenic		ND	mg/L	5E-05						
Barium		ND	mg/L	4E-05						
Cadmium		ND	mg/L	4E-05						
Chromium		ND	mg/L	4E-05						
Copper		ND	mg/L	7E-05						
Iron		ND	mg/L	0.0006						
Lead		ND	mg/L	2E-05						
Manganese		ND	mg/L	3E-05						
Mercury		7E-05	mg/L	4E-05						
Molybdenum		ND	mg/L	0.0001						
Nickel		ND	mg/L	6E-05						
Selenium		ND	mg/L	3E-05						
Uranium		ND	mg/L	3E-05						
Vanadium		ND	mg/L	4E-05						
Sample ID: LFB	14	Laboratory Fortified Blank						Run: ICPMS4-C_091222A	12/22/09 11:46	
Arsenic		0.0531	mg/L	0.0010	106	85	115			
Barium		0.0515	mg/L	0.0010	103	85	115			
Cadmium		0.0526	mg/L	0.0010	105	85	115			
Chromium		0.0524	mg/L	0.0010	105	85	115			
Copper		0.0534	mg/L	0.0010	107	85	115			
Iron		1.29	mg/L	0.0010	103	85	115			
Lead		0.0526	mg/L	0.0010	105	85	115			
Manganese		0.0523	mg/L	0.0010	105	85	115			
Mercury		0.00523	mg/L	0.0010	103	85	115			
Molybdenum		0.0526	mg/L	0.0010	105	85	115			
Nickel		0.0527	mg/L	0.0010	105	85	115			
Selenium		0.0534	mg/L	0.0010	107	85	115			
Uranium		0.0519	mg/L	0.00030	104	85	115			
Vanadium		0.0522	mg/L	0.0010	104	85	115			
Sample ID: C09120527-006CMS4	14	Sample Matrix Spike						Run: ICPMS4-C_091222A	12/22/09 13:15	
Arsenic		0.0567	mg/L	0.0010	100	70	130			
Barium		0.0860	mg/L	0.0010	109	70	130			
Cadmium		0.0522	mg/L	0.010	104	70	130			
Chromium		0.0540	mg/L	0.050	107	70	130			
Copper		0.0522	mg/L	0.010	104	70	130			
Iron		1.35	mg/L	0.030	108	70	130			
Lead		0.0530	mg/L	0.050	105	70	130			
Manganese		0.0612	mg/L	0.010	118	70	130			
Mercury		0.00514	mg/L	0.0010	103	70	130			
Molybdenum		0.0520	mg/L	0.0010	102	70	130			
Nickel		0.0511	mg/L	0.050	102	70	130			
Selenium		0.0514	mg/L	0.0010	100	70	130			

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Butte Baseline Samples

Report Date: 02/22/10
Work Order: C09120699

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8										Batch: R127956
Sample ID: C09120527-006CMS4 <u>14</u> Sample Matrix Spike										Run: ICPMS4-C_091222A 12/22/09 13:15
Uranium		0.0619	mg/L	0.00030	109	70	130			
Vanadium		0.0539	mg/L	0.0010	108	70	130			
Sample ID: C09120527-006CMSD <u>14</u> Sample Matrix Spike Duplicate										Run: ICPMS4-C_091222A 12/22/09 13:21
Arsenic		0.0571	mg/L	0.0010	101	70	130	0.7	20	
Barium		0.0878	mg/L	0.0010	112	70	130	2.1	20	
Cadmium		0.0525	mg/L	0.010	105	70	130	0.6	20	
Chromium		0.0541	mg/L	0.050	108	70	130	0.3	20	
Copper		0.0528	mg/L	0.010	106	70	130	1.2	20	
Iron		1.37	mg/L	0.030	109	70	130	1.5	20	
Lead		0.0533	mg/L	0.050	106	70	130	0.5	20	
Manganese		0.0619	mg/L	0.010	120	70	130	1.2	20	
Mercury		0.00517	mg/L	0.0010	103	70	130	0.6	20	
Molybdenum		0.0518	mg/L	0.0010	101	70	130	0.4	20	
Nickel		0.0515	mg/L	0.050	103	70	130	0.7	20	
Selenium		0.0513	mg/L	0.0010	100	70	130	0.1	20	
Uranium		0.0619	mg/L	0.00030	109	70	130	0.1	20	
Vanadium		0.0540	mg/L	0.0010	108	70	130	0.2	20	
Method: E200.8										Batch: R128000
Sample ID: LFB <u>2</u> Laboratory Fortified Blank										Run: ICPMS4-C_091223A 12/23/09 11:35
Boron		0.0524	mg/L	0.0010	105	85	115			
Zinc		0.0590	mg/L	0.0010	105	85	115			
Sample ID: LRB <u>2</u> Method Blank										Run: ICPMS4-C_091223A 12/23/09 13:25
Boron		ND	mg/L	0.0004						
Zinc		0.006	mg/L	0.0002						
Sample ID: C09120705-003CMS4 <u>2</u> Sample Matrix Spike										Run: ICPMS4-C_091223A 12/24/09 01:03
Boron		0.884	mg/L	0.10		70	130			A
Zinc		0.0606	mg/L	0.010	106	70	130			
Sample ID: C09120705-003CMSD <u>2</u> Sample Matrix Spike Duplicate										Run: ICPMS4-C_091223A 12/24/09 01:08
Boron		0.898	mg/L	0.10		70	130	1.6	20	A
Zinc		0.0614	mg/L	0.010	107	70	130	1.2	20	

Qualifiers:

RL - Analyte reporting limit.

ND - Not detected at the reporting limit.

A - The analyte level was greater than four times the spike level. In accordance with the method % recovery is not calculated.

MDC - Minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples

Report Date: 02/22/10
 Work Order: C09120699

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E300.0 Batch: R128035										
Sample ID: LCS	2	Laboratory Control Sample								12/23/09 18:01
Chloride		9.95	mg/L	1.0	99	90	110			
Sulfate		38.7	mg/L	1.0	97	90	110			
Run: IC2-C_091223A										
Sample ID: MBLK	2	Method Blank								12/23/09 18:18
Chloride		ND	mg/L	0.04						
Sulfate		ND	mg/L	0.1						
Run: IC2-C_091223A										
Sample ID: C09120699-004AMS	2	Sample Matrix Spike								12/23/09 23:13
Chloride		28.7	mg/L	1.0	100	80	120			
Sulfate		87.4	mg/L	1.0	98	80	120			
Run: IC2-C_091223A										
Sample ID: C09120699-004AMSD	2	Sample Matrix Spike Duplicate								12/23/09 23:30
Chloride		28.9	mg/L	1.0	101	80	120	0.6	20	
Sulfate		88.8	mg/L	1.0	100	80	120	1.6	20	
Run: IC2-C_091223A										
Method: E300.0 Batch: R128432										
Sample ID: LCS	2	Laboratory Control Sample								01/08/10 16:03
Chloride		9.59	mg/L	1.0	96	90	110			
Sulfate		38.5	mg/L	1.0	96	90	110			
Run: IC2-C_100108A										
Sample ID: MBLK	2	Method Blank								01/08/10 16:18
Chloride		ND	mg/L	0.04						
Sulfate		ND	mg/L	0.1						
Run: IC2-C_100108A										
Sample ID: C10010095-032AMS	2	Sample Matrix Spike								01/08/10 18:06
Chloride		94.6	mg/L	1.0	101	80	120			
Sulfate		310	mg/L	1.0	100	80	120			
Run: IC2-C_100108A										
Sample ID: C10010095-032AMSD	2	Sample Matrix Spike Duplicate								01/08/10 18:22
Chloride		94.2	mg/L	1.0	100	80	120	0.5	20	
Sulfate		312	mg/L	1.0	101	80	120	0.6	20	
Run: IC2-C_100108A										

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Butte Baseline Samples

Report Date: 02/22/10
Work Order: C09120699

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2										Batch: R128102
Sample ID: MBLK-1		Method Blank								Run: TECHNICON_091229A 12/29/09 11:50
Nitrogen, Nitrate+Nitrite as N		ND	mg/L	0.03						
Sample ID: LCS-2		Laboratory Control Sample								Run: TECHNICON_091229A 12/29/09 11:54
Nitrogen, Nitrate+Nitrite as N		2.61	mg/L	0.10	102	90	110			
Sample ID: C09120797-001AMS		Sample Matrix Spike								Run: TECHNICON_091229A 12/29/09 13:44
Nitrogen, Nitrate+Nitrite as N		2.35	mg/L	0.10	90	90	110			
Sample ID: C09120797-001AMSD		Sample Matrix Spike Duplicate								Run: TECHNICON_091229A 12/29/09 13:47
Nitrogen, Nitrate+Nitrite as N		2.33	mg/L	0.10	<u>89</u>	90	110	0.9	10	S

Qualifiers:

RL - Analyte reporting limit.
MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
S - Spike recovery outside of advisory limits.



QA/QC Summary Report

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples

Report Date: 02/22/10
 Work Order: C09120699

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0								Batch: RA226-4261		
Sample ID: C09120781-001DMS		Sample Matrix Spike					Run: BERTHOLD 770-2_091223A			01/04/10 16:41
Radium 226		17.0pCi/L		109		70	130			
Sample ID: C09120781-001DMSD		Sample Matrix Spike Duplicate					Run: BERTHOLD 770-2_091223A			01/04/10 16:41
Radium 226		14.8pCi/L		95		70	130	14		24.7
Sample ID: MB-RA226-4261	3	Method Blank					Run: BERTHOLD 770-2_091223A			01/04/10 16:41
Radium 226		-0.05	pCi/L							U
Radium 226 precision (±)		0.1	pCi/L							
Radium 226 MDC		0.2	pCi/L							
Sample ID: LCS-RA226-4261		Laboratory Control Sample					Run: BERTHOLD 770-2_091223A			01/04/10 16:41
Radium 226		9.1	pCi/L	116		70	130			
Method: E903.0								Batch: 24761		
Sample ID: C09120709-001FMS		Sample Matrix Spike					Run: G542M_091229B			01/04/10 23:58
Radium 226		10	pCi/L	111		70	130			
Sample ID: C09120709-001FMSD		Sample Matrix Spike Duplicate					Run: G542M_091229B			01/04/10 23:58
Radium 226		11	pCi/L	119		70	130	6.3		23.6
Sample ID: LCS-24761		Laboratory Control Sample					Run: G542M_091229B			01/05/10 01:57
Radium 226		17	pCi/L	114		70	130			
Sample ID: MB-24761	3	Method Blank					Run: G542M_091229B			01/05/10 01:57
Radium 226		0.2	pCi/L							U
Radium 226 precision (±)		0.2	pCi/L							
Radium 226 MDC		0.3	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples

Report Date: 02/22/10
 Work Order: C09120699

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0										Batch: R128245
Sample ID: LCS-RA-TH-ISO-1058		Laboratory Control Sample					Run: EGG-ORTEC_091228F			12/30/09 13:45
Thorium 230		5.7	pCi/L	106		70	130			
Sample ID: C09120709-001DMS		Sample Matrix Spike					Run: EGG-ORTEC_091228F			12/30/09 13:45
Thorium 230		10	pCi/L	77		70	130			
Sample ID: C09120709-001DMSD		Sample Matrix Spike Duplicate					Run: EGG-ORTEC_091228F			12/30/09 13:45
Thorium 230		13	pCi/L	104		70	130	24	42.1	
Sample ID: MB-RA-TH-ISO-1058	3	Method Blank					Run: EGG-ORTEC_091228F			12/30/09 13:45
Thorium 230		0.05	pCi/L							U
Thorium 230 precision (±)		0.07	pCi/L							
Thorium 230 MDC		0.1	pCi/L							
Method: E907.0										Batch: 24761
Sample ID: C09120699-001GMS		Sample Matrix Spike					Run: EGG-ORTEC_091230C			01/05/10 15:10
Thorium 230		1.3	pCi/L	96		70	130			
Sample ID: C09120699-001GMSD		Sample Matrix Spike Duplicate					Run: EGG-ORTEC_091230C			01/05/10 15:10
Thorium 230		1.2	pCi/L	86		70	130	8.3	58	
Sample ID: LCS-24761		Laboratory Control Sample					Run: EGG-ORTEC_091230C			01/05/10 15:10
Thorium 230		2.2	pCi/L	120		70	130			
Sample ID: MB-24761	3	Method Blank					Run: EGG-ORTEC_091230C			01/05/10 15:10
Thorium 230		-0.04	pCi/L							U
Thorium 230 precision (±)		0.08	pCi/L							
Thorium 230 MDC		0.1	pCi/L							

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
 Project: Three Crow Butte Baseline Samples

Report Date: 02/22/10
 Work Order: C09120699

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E909.0M										Batch: R128700
Sample ID: C09120772-003AMS		Sample Matrix Spike					Run: BECKMAN 6100TA_100111A			01/11/10 07:30
Lead 210		0.00097	uCi/kg		119	70	130			
Sample ID: C09120772-003AMSD		Sample Matrix Spike Duplicate					Run: BECKMAN 6100TA_100111A			01/11/10 07:30
Lead 210		0.00083	uCi/kg		85	70	130	16	30	
Sample ID: MB-24797	3	Method Blank					Run: BECKMAN 6100TA_100111A			01/11/10 07:30
Lead 210		5E-06	pCi/kg							U
Lead 210 precision (±)		9E-06	pCi/kg							
Lead 210 MDC		1E-05	pCi/kg							
Sample ID: LCS-24797		Laboratory Control Sample					Run: BECKMAN 6100TA_100111A			01/11/10 07:30
Lead 210		0.00024	pCi/kg		82	70	130			
Method: E909.0M										Batch: R128909
Sample ID: C09070805-004AMS		Sample Matrix Spike					Run: BECKMAN 6100TA_100115B			01/15/10 09:00
Lead 210		180	pCi/L		78	70	130			
Sample ID: C09070805-004AMSD		Sample Matrix Spike Duplicate					Run: BECKMAN 6100TA_100115B			01/15/10 09:00
Lead 210		170	pCi/L		73	70	130	5.9	30	
Sample ID: MB-R128909	3	Method Blank					Run: BECKMAN 6100TA_100115B			01/15/10 09:00
Lead 210		0.7	pCi/L							U
Lead 210 precision (±)		3	pCi/L							
Lead 210 MDC		5	pCi/L							
Sample ID: LCS-R128909		Laboratory Control Sample					Run: BECKMAN 6100TA_100115B			01/15/10 09:00
Lead 210		83	pCi/L		73	70	130			

Qualifiers:

RL - Analyte reporting limit.
 MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.
 U - Not detected at minimum detectable concentration



QA/QC Summary Report

Client: Crow Butte Resources
Project: Three Crow Butte Baseline Samples

Report Date: 02/22/10
Work Order: C09120699

Analyte	Count	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E912.0										
Batch: R128242										
Sample ID: C09120709-001EMS		Sample Matrix Spike					Run: EGG-ORTEC_091228E			12/29/09 12:19
Polonium 210		15	pCi/L	94		70	130			
Sample ID: C09120709-001EMSD		Sample Matrix Spike Duplicate					Run: EGG-ORTEC_091228E			12/29/09 12:19
Polonium 210		15	pCi/L	92		70	130	1.6	51.1	
Sample ID: LCS-PO210-0275		Laboratory Control Sample					Run: EGG-ORTEC_091228E			12/29/09 12:19
Polonium 210		16	pCi/L	96		70	130			
Sample ID: MB-PO210-0275	3	Method Blank					Run: EGG-ORTEC_091228E			12/29/09 12:19
Polonium 210		0.04	pCi/L							U
Polonium 210 precision (±)		0.2	pCi/L							
Polonium 210 MDC		0.5	pCi/L							
Method: E912.0										
Batch: 24761										
Sample ID: C09120802-002IMS		Sample Matrix Spike					Run: EGG-ORTEC_091230A			01/04/10 09:49
Polonium 210		43	pCi/L	110		70	130			
Sample ID: C09120802-002IMSD		Sample Matrix Spike Duplicate					Run: EGG-ORTEC_091230A			01/04/10 09:49
Polonium 210		43	pCi/L	110		70	130	0.4	51.2	
Sample ID: LCS-24761		Laboratory Control Sample					Run: EGG-ORTEC_091230A			01/04/10 09:49
Polonium 210		65	pCi/L	89		70	130			
Sample ID: MB-24761	3	Method Blank					Run: EGG-ORTEC_091230A			01/04/10 11:59
Polonium 210		0.4	pCi/L							U
Polonium 210 precision (±)		1	pCi/L							
Polonium 210 MDC		2	pCi/L							

Qualifiers:

RL - Analyte reporting limit.

MDC - Minimum detectable concentration

ND - Not detected at the reporting limit.

U - Not detected at minimum detectable concentration

Energy Laboratories Inc

Workorder Receipt Checklist



C09120699

Crow Butte Resources

Login completed by: Halley Ackerman

Date and Time Received: 12/21/2009 11:31 AM

Reviewed by:

Received by: ha

Reviewed Date:

Carrier name: Hand Del

- | | | | |
|---|---|-----------------------------|--|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature: | 2°C | | |
| Water - VOA vials have zero headspace? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input checked="" type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Applicable <input type="checkbox"/> |

Contact and Corrective Action Comments:

Sample split and preserved as necessary for the Suspended analysis.



CLIENT: Crow Butte Resources
Project: Three Crow Butte Baseline Samples
Sample Delivery Group: C09120699

Report Date: 02/22/10

CASE NARRATIVE

RADIOCHEMISTRY ANALYSIS

Per client request, results less than MDC (or precision if no MDC), are reported as <MDC (or <precision). Actual instrument results are available by request.

ORIGINAL SAMPLE SUBMITTAL(S)

All original sample submittals have been returned with the data package.

SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)

Temperature of samples received may not be considered properly preserved by accepted standards. Samples that are hand delivered immediately after collection shall be considered acceptable if there is evidence that the chilling process has begun.

GROSS ALPHA ANALYSIS

Method 900.0 for gross alpha and gross beta is intended as a drinking water method for low TDS waters. Data provided by this method for non potable waters should be viewed as inconsistent.

SOIL/SOLID SAMPLES

All samples reported on an as received basis unless otherwise indicated.

ATRAZINE, SIMAZINE AND PCB ANALYSIS USING EPA 505

Data for Atrazine and Simazine are reported from EPA 525.2, not from EPA 505. Data reported by ELI using EPA method 505 reflects the results for seven individual Aroclors. When the results for all seven are ND (not detected), the sample meets EPA compliance criteria for PCB monitoring.

SUBCONTRACTING ANALYSIS

Subcontracting of sample analyses to an outside laboratory may be required. If so, ENERGY LABORATORIES will utilize its branch laboratories or qualified contract laboratories for this service. Any such laboratories will be indicated within the Laboratory Analytical Report.

BRANCH LABORATORY LOCATIONS

eli-b - Energy Laboratories, Inc. - Billings, MT
eli-g - Energy Laboratories, Inc. - Gillette, WY
eli-h - Energy Laboratories, Inc. - Helena, MT
eli-r - Energy Laboratories, Inc. - Rapid City, SD
eli-t - Energy Laboratories, Inc. - College Station, TX

CERTIFICATIONS:

USEPA: WY00002; FL-DOH NELAC: E87641; California: 02118CA
Oregon: WY200001; Utah: 3072350515; Virginia: 00057; Washington: C1903

ISO 17025 DISCLAIMER:

The results of this Analytical Report relate only to the items submitted for analysis.

ENERGY LABORATORIES, INC. - CASPER, WY certifies that certain method selections contained in this report meet requirements as set forth by the above accrediting authorities. Some results requested by the client may not be covered under these certifications. All analysis data to be submitted for regulatory enforcement should be certified in the sample state of origin. Please verify ELI's certification coverage by visiting www.energylab.com

ELI appreciates the opportunity to provide you with this analytical service. For additional information and services visit our web page www.energylab.com.

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

CROW BUTTE RESOURCES, INC.

**Technical Report
Three Crow Expansion Area**



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