Mead Custodial Trust

606 Columbia St NW
Suite 212
Olympia, WA 98501
(360) 754-9343
danieljsilver@msn.com

November 21, 2016

Guy Barrett
Department of Ecology
P.O. Box 47706
Olympia, WA 98504-7706

SUBJECT: 4th Quarter Surface Water Monitoring Report

Dear Guy:

Enclosed is the 4th Quarter 2016 Surface Water Monitoring Report for Kaiser Mead. I am also including charts of the historical results for the two sites

Please let me know if you have any questions about this report.

Sincerely,

Dan Silver
Trustee

Enclosure

Hydrometrics, Inc.
consulting scientists and engineers

2736 White Pines Drive
Coeur d'Alene ID 83815
(208) 660-8548
Fax: (208) 765-5286
www.hydrometrics.com

November 16, 2016

VIA EMAIL

Mr. Daniel J. Silver, Custodial Trustee
Mead Custodial Trust
606 Columbia Street NW, Ste. 212
Olympia, WA 98501

Subject: **Kaiser Mead NPL Site - Submittal of Letter Report for 4th Quarter 2016 Surface Water Monitoring Activity**

Dear Mr. Silver:

This letter report documents the monitoring activity as stipulated in the Consent Decree dated October 7, 2004 between Kaiser Aluminum and Chemical Corporation, the U.S. Environmental Protection Agency, the Washington State Department of Ecology, and AIG Insurance Company. The requirement for surface water monitoring activity is identified in the Remedial Action Plan (Exhibit A to the Scope of Work) as Task 3 Little Spokane River Monitoring Program. The following paragraphs describe the monitoring activities conducted by Hydrometrics, Inc. on October 31, 2016.

The weather during sampling was overcast and cool. The weather in the last 48 hours had been wet and mild (temperatures in the upper 50's F).

Prior to each sampling event, the field equipment was calibrated using standard buffers and conductivity solutions. The equipment used for pH was the Oakton multi-parameter meter for pH, conductivity and temperature.

The river sample was taken by dropping a stainless steel bucket into the river approximately 5 feet from the bank downstream of the Dartford Road concrete bridge abutment. The bucket was allowed to sink at least 1 foot below the surface before pulling it out of the water.

Spring samples were obtained directly by dipping the sample bottles into the discharge from the springs. At the Rubright spring the sample was taken from the channel in the middle of the yard. At the Dan Lake spring the sample was taken from the pipe discharge from the spring collection pool in the back yard.

Pre cleaned sample bottles were obtained from the analytical laboratory, SVL Analytical. The Total and weak acid dissociable (WAD) Cyanide bottles were 250 milliliter (ml) polyethylene with the appropriate amount of sodium hydroxide (NaOH) provided for addition following sample collection. The Fluoride sample bottles were 250 ml and contained no preservative. Following sampling, the labels were attached and the bottles were placed into the SVL cooler.

Once all samples had been obtained, the Chain of Custody form was completed and the sample bottles were secured in the cooler with blue ice packs. The samples were hand-delivered to the laboratory.

All results from the three sample locations were within historical ranges, except for the Dan Lake site which reported a new low for WAD cyanide. All QC tests (for all parameters) were within acceptable guidelines.

The field measurements and the laboratory analyses are summarized in the following table. Field sampling logs, the Chain of Custody forms, and the laboratory data package follow.

Sincerely,
HYDROMETRICS, INC.

Antonio Chavez, P.E.
Senior Engineer

Enclosure

Kaiser Mead NPL Surface Water Monitoring

Descriptive Name	Sample Location	Date Sampled	pH Std Units	Conductivity umhos/cm	Temp. Deg. C	Total CN mg/L	WAD CN mg/L	Free CN mg/L	F mg/L
Little Spokane River Samples									
At Dartford Rd Bridge	W-24	10/31/2016	8.60	264	9.5	<0.0100	<0.0100	<0.0100	0.179
Springs									
Bill Rubright	W-2326	10/31/2016	8.20	498	10.8	0.317	<0.0100	<0.0100	0.176
Dan Lake	W-195	10/31/2016	8.10	840	11.1	1.45	0.0210	<0.0100	1.44

Notes:
< = chemical was not detected at or above the method reporting limit
CN = cyanide
WAD = weak acid dissociable
F = fluoride
mg/L = milligrams per liter
nr - no reading recorded

Water Sampling Form ~~ HF-430r2

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: Kaiser Mead
Project Code: 9088.00, Phase 004
Sample Team Member(s): Chavez
Laboratory Used: SVL Analytical

Site Designation:
Sample Code Number: W-24
Sample Date: 10/31/16
Sample Time: 955 (military)

If Duplicate Sample Collected, Please Record Below

Duplicate Sample Code #:
Duplicate Sample Time:

Site Description

Sampling Location (ID, Description):
N. Dartford Road Bridge across Little Spokane River-downstream

Water Body (Describe Type):
Little Spokane River

Site Conditions

New Site: Yes (No) Photo taken: Yes (No)
Site Type: DRY (surface water) process water
monitoring well domestic well adit seep
spring– other:

Weather Conditions: calm (breeze) windy
no precip. rain snow
clear p. cloudy (overcast)
Air Temperature: °C 60 °F

For Surface Water Samples

Flow Method: Marsh McBirney Volumetric Flume Weir Estimate
Other Flow or Description: Bank Full
Flow: gpm cfs Staff Gage:

Field Parameters

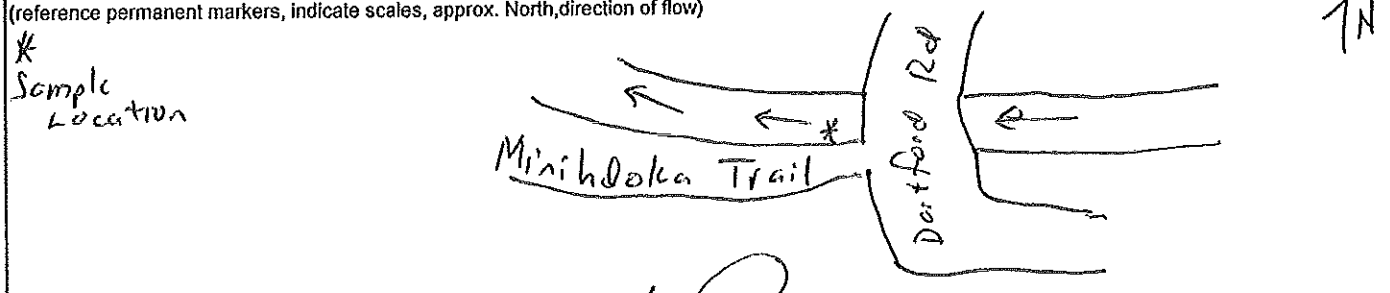
Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
955			8.6	264	0	9.5	clear

Sampling Inventory

Bottles Collected: Date/Time	Sample ID	Container (glass/plastic)	Quantity/ Vol.	Filtered	Preservative	Analysis	Remarks
9	W-24	plastic	250 ml	no	NaOH	Total,WAD CN	
	W-24	plastic	250 ml	no	None	Fluoride	

Sampling Location Map

(reference permanent markers, indicate scales, approx. North,direction of flow)



Sample Team Member Signature:

Water Sampling Form ~~ HF-430r2

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: Kaiser Mead
Project Code: 9088.00, Phase 004
Sample Team Member(s): Chavez
Laboratory Used: SVL Analytical

Site Designation:
Sample Code Number: W-2326
Sample Date: 10/31/16
Sample Time: 1008 (military)

If Duplicate Sample Collected, Please Record Below

Duplicate Sample Code #:
Duplicate Sample Time:

Site Description

Sampling Location (ID, Description):
Backyard at 307 W. Koda Ct.

Water Body (Describe Type):
Flowing spring

Site Conditions

New Site: Yes No Photo taken: Yes No
Site Type: DRY surface water process water
monitoring well domestic well adit seep
spring– other:
Weather Conditions: calm breeze windy
no precip. rain snow
clear p. cloudy overcast
Air Temperature: °C °F

For Surface Water Samples

Flow Method: Marsh McBirney Volumetric Flume Weir Estimate
Other Flow or Description:
Flow: gpm cfs Staff Gage:

Field Parameters

Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
1011			8.32	493		10.93	clear

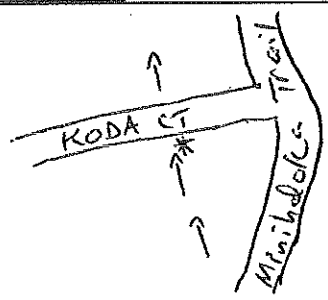
Sampling Inventory

Bottles Collected							
Date/Time	Sample ID	Container (glass/plastic)	Quantity/ Vol.	Filtered	Preservative	Analysis	Remarks
	W-2326	plastic	250 ml	no	NaOH	Total,WAD CN	
	W-2326	plastic	250 ml	no	None	Fluoride	

Sampling Location Map

(reference permanent markers, indicate scales, approx. North,direction of flow)

* Sample Location



N

Sample Team Member Signature:

Water Sampling Form ~~ HF-430r2

Hydrometrics, Inc.
Consulting Scientists and Engineers

Project Name: Kaiser Mead
Project Code: 9088.00, Phase 004
Sample Team Member(s): Chavez
Laboratory Used: SVL Analytical

Site Designation:
Sample Code Number: W-195
Sample Date: 10/31/16
Sample Time: (military)

If Duplicate Sample Collected, Please Record Below

Duplicate Sample Code #:
Duplicate Sample Time:

Site Description

Sampling Location (ID, Description):
Backyard at 13607 N. Minihdoka Trail

Water Body (Describe Type):
Flowing spring into small pond

Site Conditions

New Site: Yes No Photo taken: Yes No
Site Type: DRY surface water process water
monitoring well domestic well adit seep
spring– other:
Weather Conditions: calm breeze windy
no precip. rain snow
clear p. cloudy overcast
Air Temperature: °C °F

For Surface Water Samples

Flow Method: Marsh McBirney Volumetric Flume Weir Estimate
Other Flow or Description:
Flow: gpm cfs Staff Gage:

Field Parameters

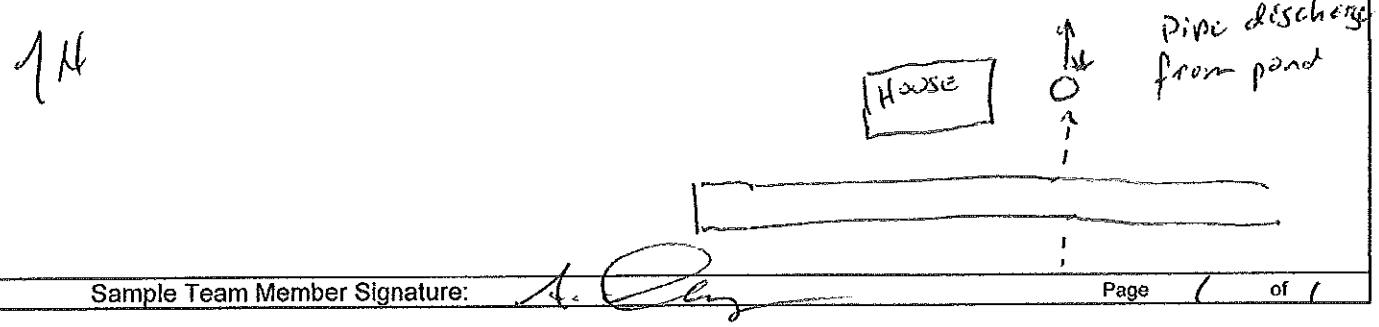
Time (military)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/l)	pH	S.C. (µmhos/cm)	Turbidity (n.t.u.)	Temperature (°C)	Additional Parameters or Notes
1126			8.1	2540		11.1	

Sampling Inventory

Bottles Collected							
Date/Time	Sample ID	Container (glass/plastic)	Quantity/ Vol.	Filtered	Preservative	Analysis	Remarks
	W-195	plastic	250 ml	no	NaOH	Total,WAD CN	
	W-195	plastic	250 ml	no	None	Fluoride	

Sampling Location Map

(reference permanent markers, indicate scales, approx. North,direction of flow)



Sample Team Member Signature:

Work Order: **W6J0629**
Hydrometrics Inc. - CDA

SVL ANALYTICAL

SVL Analytical, In... • FAX: (208) 783-0891

W6J0629

FOR SVL USE ONLY
SVL JOB #

TEMP on Receipt: 7°C

Table 1. -- Matrix Type
1 = Surface Water, 2 = Ground Water
3 = Soil, 4 = Sediment, 5 = Rock, 6 = Rinsate, 7 = Oil
8 = Waste, 9 = Other: ______

Report to Company: Hydrometrics
Contact: Tony Chavez
Address:
Phone Number: 208 660 8548
FAX Number:
E-mail: achavez@hydrometrics.com

Invoice Sent To: SAME
Contact:
Address:
Phone Number:
FAX Number:
PO#:

Project Name: Kaiser Mead
Sampler's Signature: [signature]

Indicate State of sample origination: WA

Please take care to distinguish between:
1 and I
2 and Z
5 and S
Ø and O
Thanks!

#	Sample ID	Collection Date	Collection Time	Collected by: (Init.)	Matrix Type (From Table 1)	No. of Containers	Unpreserved	HNO_3 Filtered	HNO_3 Unfiltered	HCl	H_2SO_4	NaOH	Other (Specify)	Fluoride	Total, WAD, Free CN	Rush Instructions (Days)	Comments
1	W-24	10-31-16	955	AC	1	2	1					1		✓	✓		
2																	
3	W-2326	10-31-16	1011		1	2	1					1		✓	✓		
4																	
5	W-195	10-31-16	1126		1	2	1					1		✓	✓		
6																	
7																	
8																	
9																	
10																	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
[signature]	10-31-16	1315	R. Johnson	10/31/16	1315
[signature]	11/01/16	0945	S. Jacobson	11/1/16	0945

* Sample Reject: ☐ Return ☐ Dispose ☐ Store (30 Days)

White: LAB COPY Yellow: CUSTOMER COPY

www.svl.net One Government Gulch - PO Box 929 Kellogg ID 83837-0929 (208) 784-1258 Fax (208) 783-0891

Hydrometrics Inc. - CDA
2736 White PIne Drive
Coeur d Alene, ID 83815

Project Name: Kaiser
Work Order: **W6J0629**
Reported: 15-Nov-16 14:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Sampled By	Date Received	Notes
W - 24	W6J0629-01	Surface Water	31-Oct-16 09:55	AC	31-Oct-2016	Q6
W - 2326	W6J0629-02	Surface Water	31-Oct-16 10:11	AC	31-Oct-2016	Q6
W - 195	W6J0629-03	Surface Water	31-Oct-16 11:26	AC	31-Oct-2016	Q6

Solid samples are analyzed on an as-received, wet-weight basis, unless otherwise requested. Non-Detects are reported at the MDL.
Sample preparation is defined by the client as per their Data Quality Objectives.
This report supercedes any previous reports for this Work Order. The complete report includes pages for each sample, a full QC report, and a notes section.
The results presented in this report relate only to the samples, and meet all requirements of the NELAC Standards unless otherwise noted.

(Q6) SVL received the following containers outside of published EPA guidelines for preservation temperatures (0-6°C).
The guidelines do not pertain to nitric-preserved metals.

Default Cooler (Received Temperature: 7.0°C)

Labnumber	Container	Client ID	Labnumber	Container	Client ID
W6J0629-01 A	Raw HDPE	W - 24	W6J0629-01 B	NaOH HDPE	W - 24
W6J0629-02 A	Raw HDPE	W - 2326	W6J0629-02 B	NaOH HDPE	W - 2326
W6J0629-03 A	Raw HDPE	W - 195	W6J0629-03 B	NaOH HDPE	W - 195

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Hydrometrics Inc. - CDA
2736 White Pine Drive
Coeur d Alene, ID 83815

Project Name: Kaiser
Work Order: **W6J0629**
Reported: 15-Nov-16 14:25

Client Sample ID: **W - 24**
SVL Sample ID: **W6J0629-01 (Surface Water)**

Sampled: 31-Oct-16 09:55
Received: 31-Oct-16
Sampled By: AC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0100	mg/L	0.0100	0.0016		W645179	APH	11/04/16 09:57	
EPA 335.4	Cyanide (total)	< 0.0100	mg/L	0.0100	0.0019		W645215	APH	11/07/16 12:40	
SM 4500-CN-I	Cyanide (WAD)	< 0.0100	mg/L	0.0100	0.0026		W645132	APH	11/07/16 14:02	
Anions by Ion Chromatography										
EPA 300.0	Fluoride	0.179	mg/L	0.100	0.018		W646138	DT	11/15/16 11:38	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

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Hydrometrics Inc. - CDA
2736 White Pine Drive
Coeur d Alene, ID 83815

Project Name: Kaiser
Work Order: **W6J0629**
Reported: 15-Nov-16 14:25

Client Sample ID: **W - 2326**
SVL Sample ID: **W6J0629-02 (Surface Water)**

Sample Report Page 1 of 1

Sampled: 31-Oct-16 10:11
Received: 31-Oct-16
Sampled By: AC

Method	Analyte	Result	Units	RL	MDL	Dilution	Batch	Analyst	Analyzed	Notes
Classical Chemistry Parameters										
ASTM D7237	Cyanide (free) @ pH 6	< 0.0100	mg/L	0.0100	0.0016		W645179	APH	11/04/16 09:59	
EPA 335.4	Cyanide (total)	0.317	mg/L	0.0200	0.0038	2	W645215	APH	11/07/16 12:42	D2
SM 4500-CN-I	Cyanide (WAD)	< 0.0100	mg/L	0.0100	0.0026		W645132	APH	11/07/16 14:04	
Anions by Ion Chromatography										
EPA 300.0	Fluoride	0.176	mg/L	0.100	0.018		W646138	DT	11/15/16 11:55	

This data has been reviewed for accuracy and has been authorized for release by the Laboratory Director or designee.

John Kern
Laboratory Director

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Hydrometrics Inc. - CDA
2736 White PIne Drive
Coeur d Alene, ID 83815

Project Name: Kaiser
Work Order: **W6J0629**
Reported: 15-Nov-16 14:25

Notes and Definitions

D2	Sample required dilution due to high concentration of target analyte.
Q6	Sample was received above recommended temperature.
LCS	Laboratory Control Sample (Blank Spike)
RPD	Relative Percent Difference
UDL	A result is less than the detection limit
R > 4S	% recovery not applicable, sample concentration more than four times greater than spike level
<RL	A result is less than the reporting limit
MRL	Method Reporting Limit
MDL	Method Detection Limit
N/A	Not Applicable

Kaiser Mead NPL Surface Water Monitoring

Descriptive Name	Date Sampled	pH Std Units	Conductivity umhos/cm	Temp. Deg. C	Total CN mg/L	WAD CN mg/L	Free CN mg/L	F mg/L
Springs								
Dan Lake (W-195)	3/23/2005	7.55	582	10.7	2.47	0.073		1.08
	6/27/2005	6.69	310	13.1	1.48	0.100		0.97
	7/21/2005	6.77	669.4	11.78	1.44	0.394		1.00
	10/28/2005	7.52	549.1	13.71	1.25	0.080		0.98
	1/18/2006	7.45	569.4	9.40	1.02	0.118		1.01
	5/26/2006	7.70	588.0	12.29	1.23	0.142		1.06
	9/20/2006	7.25	761.2	13.61	1.42	0.387		0.87
	12/20/2006	6.64	690.8	11.86	1.41	0.0932		0.97
	3/22/2007	7.76	609.1	11.38	1.13	1.03		1.1
	6/26/2007	7.33	596.9	14.25	1.51	0.215		1.1
	8/22/2007	6.99	692.2	14.49	1.50	0.138		1.1
	11/14/2007	7.02	721.3	9.54	1.33	0.132		1.1
	3/4/2008	7.04	728.4	9.64	1.28	0.11		1.1
	6/16/2008	6.97	580.7	10.97	2.28	0.127		1.11
	9/18/2008	6.67	598.3	14.2	2.41	0.4		0.944
	1/14/2009	7.7	586	11.5	1.77	0.0684		1.08
	5/8/2009	7.82	375	12.13	2.07	0.189		1.14
	9/24/2009	7.1	745	11.83	2.57	0.0498		<0.100
	11/10/2009	7.1	618	11.16	1.37	0.0328		0.94
	2/24/2010	7.69	619	10.82	2.48	0.193		0.974
	5/25/2010	6.55	632	11.62	1.62	0.235		1.06
	8/25/2010	7.14	755	11.55	*1.68	0.158		0.99
	11/17/2010	8.83	760	11.21	1.85	0.063		1.02
	3/23/2011	7.69	627	10.76	1.82	0.386		1.02
	6/8/2011	7.59	621	11.21	1.80	0.102		1.08
	8/23/2011	5.99	1074	11.51	1.28	0.176		1.15
	11/1/2011	6.48	976	10.70	1.48	0.037		0.98
	1/5/2012	6.78	781	10.6	1.86	0.055		0.95
	4/17/2012	7.70	714	11.1	1.74	0.092		1.27
	9/24/2012	6.88	735	12.5	1.40	0.071		1.22
	11/7/2012	7.24	724	11.2	1.45	0.089		1.15
	3/26/2013	8.00	602	11.3	1.69	0.092		1.04
	6/6/2013	7.40	125	16.6	1.36	0.184		1.01
	7/17/2013	7.65	906	17.1	1.26	0.071		1.10
	10/24/2013	7.85	876	11.1	1.62	0.084		1.03
	3/13/2014	8.10	696	10.7	1.95	0.177		1.19
	4/30/2014	7.00	716	10.8	1.82	0.170		1.21
	7/10/2014	8.20	759	13.9	1.64	0.299		1.14
	10/27/2014	8.00	815	10.5	1.70	0.064		1.06
	3/6/2015	8.10	668	10.2	1.80	0.057	0.089	1.15
	4/8/2015	8.20	643	11.1	1.85	0.081		1.38
	7/8/2015	8.00	792	15.5	1.82	0.200		1.20
	10/6/2015	8.00	874	12.0	2.23	0.273	0.14	1.22
	3/2/2016	8.00	677	10.8	1.70	0.0350	na	1.27
	6/16/2016	8.10	772	11.9	1.35	0.0730	0.061	1.63
	8/30/2016	8.00	940	12.7	1.63	0.0630	0.042	1.34
	10/31/2016	8.10	840	11.1	1.45	0.0210	<0.0100	1.44

Notes:
< = chemical was not detected at or above the method reporting limit
CN = cyanide
WAD = weak acid dissociable
F = fluoride
mg/L = milligrams per liter
* -Result is from re-analysis outside holding time

Kaiser Mead NPL Surface Water Monitoring

Descriptive Name	Date Sampled	pH Std Units	Conductivity umhos/cm	Temp. Deg. C	Total CN mg/L	WAD CN mg/L	Free CN mg/L	F mg/L
Springs								
Bill Rubright (W-2326)	3/23/2005	7.49	434	8.8	0.177	0.016		0.17
	6/27/2005	7.18	409	12.7	0.183	<0.010		0.19
	7/21/2005	7.25	392.1	12.76	0.171	0.159		0.16
	10/28/2005	7.61	344.1	12.51	0.163	<0.010		0.16
	1/18/2006	7.58	237.3	8.43	0.144	0.017		0.18
	5/26/2006	8.15	396.4	12.08	0.142	0.016		0.14
	9/20/2006	7.87	391.6	14.03	0.154	0.017		0.14
	12/20/2006	6.7	408.1	10.53	0.16	0.0154		0.11
	3/22/2007	7.89	379	10.72	0.145	0.118		0.200
	6/26/2007	7.49	324.4	14.12	0.200	0.07		<0.1
	8/22/2007	7.43	389.6	13.48	0.179	0.038		<0.1
	11/14/2007	7.41	388.4	9.86	0.164	0.015		0.1
	3/4/2008	7.41	480.1	10.03	0.175	0.02		0.1
	6/16/2008	7.41	386.1	11.31	0.186	0.025		0.156
	9/18/2008	7.01	301.2	13.2	0.188	0.028		0.154
	1/14/2009	7.84	383	9.1	0.181	<0.0100		0.151
	5/8/2009	7.83	325	12.13	0.153	0.036		0.148
	9/24/2009	7.43	431	12.13	0.174	<0.0100		0.146
	11/10/2009	7.25	439	10.03	0.190	0.012		0.108
	2/24/2010	7.85	278	8.83	0.237	<0.0100		0.123
	5/25/2010	6.62	384	11.15	0.221	0.024		0.143
	8/25/2010	7.79	265	12.05	*0.259	0.0216		0.193
	11/17/2010	8.14	126	10.33	0.248	<0.0100		0.200
	3/23/2011	7.74	267	9.05	0.216	0.0513		0.208
	6/8/2011	7.63	271	9.75	0.198	0.013		0.170
	8/23/2011	7.45	427	12.34	0.207	0.015		0.20
	11/1/2011	7.42	454	12.1	0.218	0.014		0.20
	1/5/2012	6.86	721	9.8	0.243	<0.0100		0.14
	4/17/2012	7.83	301	9.25	0.216	0.020		0.21
	9/24/2012	7.45	412	12.7	0.284	0.042		0.19
	11/7/2012	6.91	414	10.61	0.289	0.180		0.19
	3/26/2013	8.30	419	11.2	0.308	0.047		0.17
	6/6/2013	7.79	457	15.6	0.359	0.084		0.17
	7/17/2013	7.96	467	14.8	0.385	0.033		0.19
	10/24/2013	7.82	530	11.2	0.404	0.019		0.18
	3/13/2014	8.50	438	10.2	0.382	0.073		0.21
	4/30/2014	7.60	432	10.3	0.403	0.062		0.19
	7/10/2014	8.50	453	13.9	0.409	0.089		0.17
	10/27/2014	8.50	454	10.1	0.419	0.019		0.21
	3/6/2015	8.20	433	8.6	0.426	0.032	0.026	0.132
	4/8/2015	8.40	427	10.8	0.415	0.048		0.224
	7/8/2015	8.90	447	14.8	0.392	0.0740		0.171
	10/6/2015	8.40	439	12.8	0.433	0.0510	0.035	0.243
	3/2/2016	8.40	431	10.8	0.364	0.0250	na	0.159
	6/16/2016	8.43	455	12.6	0.342	0.0310	0.0190	0.167
	8/30/2016	8.20	454	12.8	0.350	0.0260	0.0140	0.147
	10/31/2016	8.20	498	10.8	0.317	<0.0100	<0.0100	0.176

Notes:
< = chemical was not detected at or above the method reporting limit
CN = cyanide
WAD = weak acid dissociable
F = fluoride
mg/L = milligrams per liter
* -Result is from re-analysis outside holding time