



Alpha

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

Bay Area: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Central Valley: 9090 Union Park Way, Suite 113, Elk Grove, CA 95624 • Phone: (916) 686-5190 • Fax: (916) 686-5192

ELAP Certificates 1551, 2728, and 2922

02 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16G1518

Enclosed are the results of analyses for samples received by the laboratory on 07/18/16 21:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



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West Bay Sanitary District
500 Laurel Street
Menlo Park, CA 94025

Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/02/16 16:09

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13104 / 071516A	16G1518-01	Water	07/16/16 08:30	07/18/16 21:00
G13220 / 071516B	16G1518-02	Water	07/16/16 09:00	07/18/16 21:00
G13223 / 071516C	16G1518-03	Water	07/16/16 09:30	07/18/16 21:00



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West Bay Sanitary District
500 Laurel Street
Menlo Park, CA 94025

Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/02/16 16:09

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 071516A (16G1518-01)								
Sample Type: Water								
Sampled: 07/16/16 08:30								
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	16 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:05	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.66 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:05	EPA 200.7	
Boron	0.17 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:05	EPA 200.7	
Calcium	18 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:05	EPA 200.7	
Iron	1.6 mg/L	0.10	1	AG63917	07/26/16 12:30	07/29/16 15:05	EPA 200.7	
Magnesium	5.1 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:05	EPA 200.7	
Manganese	0.067 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:05	EPA 200.7	
Sodium	46 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:05	EPA 200.7	
Zinc	0.23 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:05	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	48 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C	
Bicarbonate	270 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Biochemical Oxygen Demand	220 mg/L	5.0	1	AG63867	07/20/16 07:00	07/25/16 12:00	SM5210B	T-16
pH	7.44 pH Units	1.68	1	AG63678	07/18/16 19:00	07/18/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	790 umhos/cm	20	1	AG63734	07/19/16 16:00	07/19/16 17:00	SM2510B	
Total Dissolved Solids	380 mg/L	10	1	AG63763	07/21/16 12:24	07/26/16 16:38	SM2540C	
Total Suspended Solids	260 mg/L	1.0	1	AG63705	07/20/16 09:55	07/25/16 09:37	SM2540D	
Volatile Suspended Solids	240 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	EPA 160.4	
Silica	14 mg/L	5.0	5	AG63694	07/20/16 08:30	07/20/16 10:30	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	220 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Total Alkalinity as CaCO3	220 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Total Kjeldahl Nitrogen	53 mg/L	1.0	1	AG63695	07/25/16 08:04	07/26/16 09:38	SM4500-Norg B	
Total Nitrogen	53 mg/L	1.0	1	AG63717	07/20/16 12:32	07/26/16 13:59	SM4500-N	
Hardness, Total	65 mg/L	5	1	AG63917	07/26/16 12:30	07/29/16 15:05	SM2340B	
Phosphorus, total	7.6 mg/L	2.0	5	AG63991	07/28/16 09:15	07/28/16 13:06	SM4500-P E	

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West Bay Sanitary District
500 Laurel Street
Menlo Park, CA 94025

Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/02/16 16:09

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 071516A (16G1518-01)								
Sample Type: Water			Sampled: 07/16/16 08:30					
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.73 NA		1	AG63917	07/26/16 12:30	08/02/16 05:56	SAR	
Anions by EPA Method 300.0								
Chloride	55 mg/L	5.0	10	AG63645	07/19/16 17:46	07/19/16 17:46	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63645	07/19/16 18:02	07/19/16 18:02	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63645	07/19/16 18:02	07/19/16 18:02	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63645	07/19/16 18:02	07/19/16 18:02	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63645	07/19/16 18:02	07/19/16 18:02	EPA 300.0	T-5
Sulfate as SO4	32 mg/L	0.50	1	AG63645	07/19/16 18:02	07/19/16 18:02	EPA 300.0	
G13220 / 071516B (16G1518-02)								
Sample Type: Water			Sampled: 07/16/16 09:00					
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	15 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:10	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.95 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:10	EPA 200.7	
Boron	0.27 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:10	EPA 200.7	
Calcium	39 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:10	EPA 200.7	
Iron	2.3 mg/L	0.10	1	AG63917	07/26/16 12:30	07/29/16 15:10	EPA 200.7	
Magnesium	16 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:10	EPA 200.7	
Manganese	0.059 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:10	EPA 200.7	
Sodium	82 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:10	EPA 200.7	
Zinc	0.24 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:10	EPA 200.7	

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Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/02/16 16:09

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13220 / 071516B (16G1518-02)								
Sample Type: Water			Sampled: 07/16/16 09:00					
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	49 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C	
Bicarbonate	310 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Biochemical Oxygen Demand	290 mg/L	5.0	1	AG63867	07/20/16 07:00	07/25/16 12:00	SM5210B	T-16
pH	7.48 pH Units	1.68	1	AG63678	07/18/16 19:00	07/18/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	1000 umhos/cm	20	1	AG63734	07/19/16 16:00	07/19/16 17:00	SM2510B	
Total Dissolved Solids	520 mg/L	10	1	AG63763	07/21/16 12:24	07/26/16 16:38	SM2540C	
Total Suspended Solids	820 mg/L	1.0	1	AG63705	07/20/16 09:55	07/25/16 09:37	SM2540D	
Volatile Suspended Solids	750 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	EPA 160.4	
Silica	20 mg/L	5.0	5	AG63694	07/20/16 08:30	07/20/16 10:30	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	260 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Total Alkalinity as CaCO3	260 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Total Kjeldahl Nitrogen	41 mg/L	1.0	1	AG63695	07/26/16 08:04	07/26/16 13:02	SM4500-Norg B	
Total Nitrogen	41 mg/L	1.0	1	AG63717	07/20/16 12:32	07/26/16 13:59	SM4500-N	
Hardness, Total	164 mg/L	5	1	AG63917	07/26/16 12:30	07/29/16 15:10	SM2340B	
Phosphorus, total	6.4 mg/L	2.0	5	AG63991	07/28/16 09:15	07/28/16 13:06	SM4500-P E	
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNa	3.25 NA		1	AG63917	07/26/16 12:30	08/02/16 05:56	SAR	
Anions by EPA Method 300.0								
Chloride	80 mg/L	12	25	AG63645	07/19/16 18:18	07/19/16 18:18	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63645	07/19/16 18:34	07/19/16 18:34	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63645	07/19/16 18:34	07/19/16 18:34	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63645	07/19/16 18:34	07/19/16 18:34	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63645	07/19/16 18:34	07/19/16 18:34	EPA 300.0	T-5
Sulfate as SO4	100 mg/L	12	25	AG63645	07/19/16 18:18	07/19/16 18:18	EPA 300.0	
G13223 / 071516C (16G1518-03)								
Sample Type: Water			Sampled: 07/16/16 09:30					
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	17 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:14	EPA 200.7	

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500 Laurel Street
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Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/02/16 16:09

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 071516C (16G1518-03)								
Sample Type: Water								
Sampled: 07/16/16 09:30								
Metals by EPA 200 Series Methods								
Aluminum	0.94 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:14	EPA 200.7	
Boron	0.25 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:14	EPA 200.7	
Calcium	25 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:14	EPA 200.7	
Iron	2.0 mg/L	0.10	1	AG63917	07/26/16 12:30	07/29/16 15:14	EPA 200.7	
Magnesium	7.8 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:14	EPA 200.7	
Manganese	0.059 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:14	EPA 200.7	
Sodium	66 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:14	EPA 200.7	
Zinc	0.23 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:14	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	52 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C	
Bicarbonate	290 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Biochemical Oxygen Demand	280 mg/L	5.0	1	AG63867	07/20/16 07:00	07/25/16 12:00	SM5210B	T-16
pH	7.41 pH Units	1.68	1	AG63678	07/18/16 19:00	07/18/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	890 umhos/cm	20	1	AG63734	07/19/16 16:00	07/19/16 17:00	SM2510B	
Total Dissolved Solids	520 mg/L	10	1	AG63763	07/21/16 12:24	07/26/16 16:38	SM2540C	
Total Suspended Solids	190 mg/L	1.0	1	AG63677	07/19/16 11:16	07/20/16 15:23	SM2540D	
Volatile Suspended Solids	190 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	EPA 160.4	
Silica	20 mg/L	5.0	5	AG63694	07/20/16 08:30	07/20/16 10:30	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	240 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Total Alkalinity as CaCO3	240 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Total Kjeldahl Nitrogen	46 mg/L	1.0	1	AG63695	07/26/16 08:04	07/26/16 13:02	SM4500-Norg B	
Total Nitrogen	46 mg/L	1.0	1	AG63717	07/20/16 12:32	07/26/16 13:59	SM4500-N	
Hardness, Total	94 mg/L	5	1	AG63917	07/26/16 12:30	07/29/16 15:14	SM2340B	
Phosphorus, total	6.4 mg/L	2.0	5	AG63991	07/28/16 09:15	07/28/16 13:06	SM4500-P E	

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Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/02/16 16:09

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 071516C (16G1518-03)		Sample Type: Water			Sampled: 07/16/16 09:30			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNa	3.35 NA		1	AG63917	07/26/16 12:30	08/02/16 05:56	SAR	
Anions by EPA Method 300.0								
Chloride	71 mg/L	10	20	AG63645	07/19/16 18:50	07/19/16 18:50	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63645	07/19/16 19:06	07/19/16 19:06	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63645	07/19/16 19:06	07/19/16 19:06	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63645	07/19/16 19:06	07/19/16 19:06	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63645	07/19/16 19:06	07/19/16 19:06	EPA 300.0	T-5
Sulfate as SO4	50 mg/L	10	20	AG63645	07/19/16 18:50	07/19/16 18:50	EPA 300.0	



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Reported:
08/02/16 16:09

Metals (Drinking Water) by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Flag
Batch AG63917 - Metals Digest									
Blank (AG63917-BLK1)				Prepared: 07/26/16 Analyzed: 07/29/16					
Potassium	ND	1.0	mg/L						
LCS (AG63917-BS1)				Prepared: 07/26/16 Analyzed: 07/29/16					
Potassium	7.08	1.0	mg/L	8.00		88.6	85-115		
Duplicate (AG63917-DUP1)				Source: 16G1530-08		Prepared: 07/26/16 Analyzed: 07/29/16			
Potassium	19.9	1.0	mg/L		19.0		4.51	20	
Matrix Spike (AG63917-MS1)				Source: 16G1530-08		Prepared: 07/26/16 Analyzed: 07/29/16			
Potassium	27.7	1.0	mg/L	8.00	19.0	108	70-130		
Matrix Spike (AG63917-MS2)				Source: 16G1930-01		Prepared: 07/26/16 Analyzed: 07/29/16			
Potassium	9.07	1.0	mg/L	8.00	2.61	80.8	70-130		
Matrix Spike Dup (AG63917-MSD1)				Source: 16G1530-08		Prepared: 07/26/16 Analyzed: 07/29/16			
Potassium	27.3	1.0	mg/L	8.00	19.0	103	70-130	1.41	20



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Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/02/16 16:09

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG63917 - Metals Digest										
Blank (AG63917-BLK1)				Prepared: 07/26/16 Analyzed: 07/29/16						
Aluminum	ND	0.050	mg/L							
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	mg/L							
Iron	ND	0.10	mg/L							
Magnesium	ND	1.0	mg/L							
Manganese	ND	0.020	mg/L							
Sodium	ND	1.0	mg/L							
Zinc	ND	0.020	mg/L							
LCS (AG63917-BS1)				Prepared: 07/26/16 Analyzed: 07/29/16						
Aluminum	1.81	0.050	mg/L	2.00		90.3	85-115			
Boron	0.342	0.050	mg/L	0.400		85.5	85-115			
Calcium	7.24	1.0	mg/L	8.00		90.5	85-115			
Iron	1.89	0.10	mg/L	2.00		94.4	85-115			
Magnesium	7.11	1.0	mg/L	8.00		88.9	85-115			
Manganese	0.185	0.020	mg/L	0.200		92.4	85-115			
Sodium	7.63	1.0	mg/L	8.00		95.4	85-115			
Zinc	0.181	0.020	mg/L	0.200		90.5	85-115			
Duplicate (AG63917-DUP1)				Source: 16G1530-08 Prepared: 07/26/16 Analyzed: 07/29/16						
Aluminum	0.102	0.050	mg/L		0.0954			6.75	20	
Boron	0.445	0.050	mg/L		0.418			6.38	20	
Calcium	107	1.0	mg/L		104			2.68	20	
Iron	0.113	0.10	mg/L		ND			13.3	20	
Magnesium	45.6	1.0	mg/L		43.5			4.72	20	
Manganese	ND	0.020	mg/L		ND			9.57	20	
Sodium	171	1.0	mg/L		166			3.09	20	
Zinc	0.0236	0.020	mg/L		0.0219			7.21	20	

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500 Laurel Street
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Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/02/16 16:09

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG63917 - Metals Digest										
Matrix Spike (AG63917-MS1)		Source: 16G1530-08		Prepared: 07/26/16 Analyzed: 07/29/16						
Aluminum	1.98	0.050	mg/L	2.00	0.0954	94.2	70-130			
Boron	0.803	0.050	mg/L	0.400	0.418	96.4	70-130			
Calcium	114	1.0	mg/L	8.00	104	131	70-130			QM-4X
Iron	2.02	0.10	mg/L	2.00	ND	95.9	70-130			
Magnesium	53.5	1.0	mg/L	8.00	43.5	125	70-130			
Manganese	0.197	0.020	mg/L	0.200	ND	95.0	70-130			
Sodium	177	1.0	mg/L	8.00	166	147	70-130			QM-4X
Zinc	0.212	0.020	mg/L	0.200	0.0219	95.3	70-130			
Matrix Spike (AG63917-MS2)		Source: 16G1930-01		Prepared: 07/26/16 Analyzed: 07/29/16						
Aluminum	1.71	0.050	mg/L	2.00	ND	85.3	70-130			
Boron	0.384	0.050	mg/L	0.400	ND	83.8	70-130			
Calcium	26.7	1.0	mg/L	8.00	20.9	72.6	70-130			
Iron	4.93	0.10	mg/L	2.00	3.45	74.2	70-130			
Magnesium	19.3	1.0	mg/L	8.00	12.8	81.2	70-130			
Manganese	0.595	0.020	mg/L	0.200	0.458	68.6	70-130			QM-01
Sodium	24.9	1.0	mg/L	8.00	19.1	72.9	70-130			
Zinc	0.187	0.020	mg/L	0.200	ND	88.4	70-130			
Matrix Spike Dup (AG63917-MSD1)		Source: 16G1530-08		Prepared: 07/26/16 Analyzed: 07/29/16						
Aluminum	1.94	0.050	mg/L	2.00	0.0954	92.3	70-130	1.92	20	
Boron	0.790	0.050	mg/L	0.400	0.418	93.1	70-130	1.66	20	
Calcium	111	1.0	mg/L	8.00	104	96.0	70-130	2.49	20	
Iron	1.98	0.10	mg/L	2.00	ND	94.2	70-130	1.69	20	
Magnesium	52.3	1.0	mg/L	8.00	43.5	110	70-130	2.27	20	
Manganese	0.193	0.020	mg/L	0.200	ND	93.1	70-130	1.87	20	
Sodium	173	1.0	mg/L	8.00	166	97.7	70-130	2.26	20	
Zinc	0.209	0.020	mg/L	0.200	0.0219	93.6	70-130	1.61	20	

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Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/02/16 16:09

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Flag
Batch AG63677 - General Preparation									
Blank (AG63677-BLK1)				Prepared: 07/19/16 Analyzed: 07/20/16					
Total Suspended Solids	ND	1.0	mg/L						
Duplicate (AG63677-DUP1)				Source: 16G1027-01 Prepared: 07/19/16 Analyzed: 07/20/16					
Total Suspended Solids	154	1.0	mg/L		149		3.45	30	
Batch AG63678 - General Preparation									
Duplicate (AG63678-DUP1)				Source: 16G1518-01 Prepared & Analyzed: 07/18/16					
pH	7.40	1.68	pH Units		7.44		0.539	20	
Batch AG63679 - General Preparation									
Duplicate (AG63679-DUP1)				Source: 16G1322-01 Prepared & Analyzed: 07/26/16					
Bicarbonate	89.1	5.0	mg/L		90.3		1.36	20	
Carbonate Alkalinity as CaCO ₃	ND	5.0	mg/L		ND			20	
Hydroxide Alkalinity as CaCO ₃	ND	5.0	mg/L		ND			20	
Total Alkalinity as CaCO ₃	73.0	5.0	mg/L		74.0		1.36	20	
Bicarbonate Alkalinity as CaCO ₃	73.0	5.0	mg/L		74.0		1.36	20	
Batch AG63694 - General Preparation									
Blank (AG63694-BLK1)				Prepared & Analyzed: 07/20/16					
Silica	ND	1.0	mg/L						
LCS (AG63694-BS1)				Prepared & Analyzed: 07/20/16					
Silica	9.41	1.0	mg/L	10.0		94.1	85-115		



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Reported:
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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG63694 - General Preparation										
LCS Dup (AG63694-BSD1)				Prepared & Analyzed: 07/20/16						
Silica	8.83	1.0	mg/L	10.0		88.3	85-115	6.33	20	
Duplicate (AG63694-DUP1)				Source: 16G1536-02 Prepared & Analyzed: 07/20/16						
Silica	9.41	1.0	mg/L		9.91			5.18	20	
Matrix Spike (AG63694-MS1)				Source: 16G1536-02 Prepared & Analyzed: 07/20/16						
Silica	12.3	1.0	mg/L	5.00	9.91	48.5	80-120			QM-05
Matrix Spike Dup (AG63694-MSD1)				Source: 16G1536-02 Prepared & Analyzed: 07/20/16						
Silica	12.4	1.0	mg/L	5.00	9.91	50.8	80-120	0.932	20	QM-05
Batch AG63695 - General Prep										
LCS (AG63695-BS1)				Prepared: 07/20/16 Analyzed: 07/25/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
LCS Dup (AG63695-BSD1)				Prepared: 07/20/16 Analyzed: 07/25/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120	0.00	20	
Matrix Spike (AG63695-MS1)				Source: 16G1237-01 Prepared: 07/20/16 Analyzed: 07/25/16						
Total Kjeldahl Nitrogen	3.13	1.0	mg/L	2.98	ND	105	75-125			
Matrix Spike Dup (AG63695-MSD1)				Source: 16G1237-01 Prepared: 07/20/16 Analyzed: 07/25/16						
Total Kjeldahl Nitrogen	3.13	1.0	mg/L	2.98	ND	105	75-125	0.00	20	
Batch AG63705 - General Preparation										
Blank (AG63705-BLK1)				Prepared: 07/20/16 Analyzed: 07/25/16						
Total Suspended Solids	ND	1.0	mg/L							

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Project: WQ Monitoring
Project Number: [none]

Reported:
08/02/16 16:09

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG63705 - General Preparation										
Duplicate (AG63705-DUP1)	Source: 16G1518-01		Prepared: 07/20/16 Analyzed: 07/25/16							
Total Suspended Solids	255	1.0	mg/L		259			1.44	30	
Duplicate (AG63705-DUP2)	Source: 16G1521-03		Prepared: 07/20/16 Analyzed: 07/25/16							
Total Suspended Solids	217	1.0	mg/L		250			14.2	30	
Batch AG63711 - General Preparation										
Blank (AG63711-BLK1)	Prepared: 07/22/16 Analyzed: 07/25/16									
Volatile Suspended Solids	ND	1.0	mg/L							
Duplicate (AG63711-DUP1)	Source: 16G1518-01		Prepared: 07/22/16 Analyzed: 07/25/16							
Volatile Suspended Solids	230	1.0	mg/L		236			2.70	30	
Duplicate (AG63711-DUP2)	Source: 16G1521-03		Prepared: 07/22/16 Analyzed: 07/25/16							
Volatile Suspended Solids	193	1.0	mg/L		222			14.0	30	
Batch AG63734 - General Preparation										
Duplicate (AG63734-DUP1)	Source: 16G1599-01		Prepared & Analyzed: 07/19/16							
Specific Conductance (EC)	645	20	umhos/cm		646			0.155	5	
Batch AG63763 - General Preparation										
Blank (AG63763-BLK1)	Prepared: 07/21/16 Analyzed: 07/26/16									
Total Dissolved Solids	ND	10	mg/L							



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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Flag
Batch AG63763 - General Preparation									
Duplicate (AG63763-DUP1)		Source: 16G1545-01		Prepared: 07/21/16 Analyzed: 07/26/16					
Total Dissolved Solids	332	10	mg/L		375		12.1	15	
Batch AG63867 - General Preparation									
Blank (AG63867-BLK1)		Prepared: 07/20/16 Analyzed: 07/25/16							
Biochemical Oxygen Demand	ND	5.0	mg/L						
Blank (AG63867-BLK2)		Prepared: 07/20/16 Analyzed: 07/25/16							
Biochemical Oxygen Demand	ND	5.0	mg/L						
LCS (AG63867-BS1)		Prepared: 07/20/16 Analyzed: 07/25/16							
Biochemical Oxygen Demand	212	5.0	mg/L	200		106 84-115			
Duplicate (AG63867-DUP1)		Source: 16G1524-03		Prepared: 07/20/16 Analyzed: 07/25/16					
Biochemical Oxygen Demand	210	5.0	mg/L		221		5.10	30	
Batch AG63917 - Metals Digest									
Blank (AG63917-BLK1)		Prepared: 07/26/16 Analyzed: 07/29/16							
Hardness, Total	ND	5	mg/L						
Duplicate (AG63917-DUP1)		Source: 16G1530-08		Prepared: 07/26/16 Analyzed: 07/29/16					
Hardness, Total	454	5	mg/L		438		3.52	20	
Batch AG63991 - General Prep									
Blank (AG63991-BLK1)		Prepared & Analyzed: 07/28/16							
Phosphorus, total	ND	0.040	mg/L						



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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG63991 - General Prep										
LCS (AG63991-BS1)				Prepared & Analyzed: 07/28/16						
Phosphorus, total	0.192	0.040	mg/L	0.200		95.9	85-115			
Duplicate (AG63991-DUP1)				Source: 16G1518-01 Prepared & Analyzed: 07/28/16						
Phosphorus, total	7.50	2.0	mg/L		7.57			0.889	20	
Matrix Spike (AG63991-MS1)				Source: 16G1518-01 Prepared & Analyzed: 07/28/16						
Phosphorus, total	8.78	2.0	mg/L	2.00	7.57	60.6	70-130			QM-4X
Matrix Spike Dup (AG63991-MSD1)				Source: 16G1518-01 Prepared & Analyzed: 07/28/16						
Phosphorus, total	8.78	2.0	mg/L	2.00	7.57	60.6	70-130	0.00	20	QM-4X
Batch AG64041 - General Preparation										
Blank (AG64041-BLK1)				Prepared & Analyzed: 07/29/16						
Ammonia as NH3	ND	0.50	mg/L							
LCS (AG64041-BS1)				Prepared & Analyzed: 07/29/16						
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110			
LCS Dup (AG64041-BSD1)				Prepared & Analyzed: 07/29/16						
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110	1.81	10	
Matrix Spike (AG64041-MS1)				Source: 16G1636-02 Prepared & Analyzed: 07/29/16						
Ammonia as NH3	12.3	0.50	mg/L	12.2	ND	101	85-115			
Matrix Spike Dup (AG64041-MSD1)				Source: 16G1636-02 Prepared & Analyzed: 07/29/16						
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115	3.51	20	

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Project: WQ Monitoring
Project Number: [none]

Reported:
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Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AG63645 - General Preparation										
Blank (AG63645-BLK1)				Prepared & Analyzed: 07/19/16						
Sulfate as SO ₄	ND	0.50	mg/L							
Nitrate as N	ND	0.20	mg/L							
Nitrite as NO ₂	ND	1.0	mg/L							
Nitrate as NO ₃	ND	1.0	mg/L							
Nitrite as N	ND	0.20	mg/L							
Chloride	ND	0.50	mg/L							
LCS (AG63645-BS1)				Prepared & Analyzed: 07/19/16						
Nitrate as N	5.86	0.20	mg/L	5.56		106	90-110			
Sulfate as SO ₄	22.9	0.50	mg/L	22.2		103	90-110			
Nitrite as NO ₂	18.3	1.0	mg/L	18.2		101	90-110			
Nitrate as NO ₃	26	1.0	mg/L	24.7		105	90-110			
Nitrite as N	5.58	0.20	mg/L	5.56		100	90-110			
Chloride	11.5	0.50	mg/L	11.1		103	90-110			
Duplicate (AG63645-DUP1)				Source: 16G1539-01 Prepared & Analyzed: 07/19/16						
Nitrite as NO ₂	ND	1.0	mg/L		ND				20	
Nitrite as N	ND	0.20	mg/L		ND				20	
Nitrate as N	0.518	0.20	mg/L		0.520			0.435	20	
Nitrate as NO ₃	2.3	1.0	mg/L		2.3			0.435	20	
Sulfate as SO ₄	ND	0.50	mg/L		ND			5.82	20	
Chloride	1.77	0.50	mg/L		1.81			2.46	20	
Matrix Spike (AG63645-MS1)				Source: 16G1539-01 Prepared & Analyzed: 07/19/16						
Chloride	13.4	0.50	mg/L	11.1	1.81	104	80-120			
Sulfate as SO ₄	23.6	0.50	mg/L	22.2	ND	105	80-120			
Nitrite as N	5.62	0.20	mg/L	5.56	ND	101	80-120			
Nitrate as NO ₃	29	1.0	mg/L	24.7	2.3	107	80-120			
Nitrate as N	6.47	0.20	mg/L	5.56	0.520	107	80-120			
Nitrite as NO ₂	18.5	1.0	mg/L	18.2	ND	101	80-120			

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Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
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Batch AG63645 - General Preparation

Matrix Spike Dup (AG63645-MSD1)

Source: 16G1539-01

Prepared & Analyzed: 07/19/16

Chloride	13.3	0.50	mg/L	11.1	1.81	104	80-120	0.433	20	
Nitrate as N	6.44	0.20	mg/L	5.56	0.520	107	80-120	0.493	20	
Nitrate as NO3	29	1.0	mg/L	24.7	2.3	106	80-120	0.493	20	
Sulfate as SO4	23.5	0.50	mg/L	22.2	ND	104	80-120	0.750	20	
Nitrite as N	5.57	0.20	mg/L	5.56	ND	100	80-120	0.834	20	
Nitrite as NO2	18.3	1.0	mg/L	18.2	ND	101	80-120	0.834	20	



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Notes and Definitions

- QM-01 The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.
- QM-05 The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- T-14 Residual chlorine, dissolved oxygen, and pH must be analyzed in the field to meet the EPA specified 15 minute hold time.
- T-16 Sample prepared outside of recommended hold time. Client notified.
- T-5 Sample prepared outside of recommended holding time per client.
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis
- REC Recovery
- RPD Relative Percent Difference

[illegible]