



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

03 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16G1633

Enclosed are the results of analyses for samples received by the laboratory on 07/19/16 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:
08/03/16 11:11

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13104 / 071816A	16G1633-01	Water	07/19/16 09:00	07/19/16 21:00
G13220 / 071816B	16G1633-02	Water	07/19/16 09:25	07/19/16 21:00
G13223 / 071816C	16G1633-03	Water	07/19/16 08:30	07/19/16 21:00



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500 Laurel Street
Menlo Park, CA 94025

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

Reported:
08/03/16 11:11

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 071816A (16G1633-01)								
Metals (Drinking Water) by EPA 200 Series Methods		Sample Type: Water			Sampled: 07/19/16 09:00			
Potassium	16 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:30	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.29 mg/L	0.050	1	AG63976	07/27/16 13:04	08/01/16 16:30	EPA 200.7	
Boron	0.20 mg/L	0.050	1	AG63976	07/27/16 13:04	08/01/16 16:30	EPA 200.7	
Calcium	14 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:30	EPA 200.7	
Iron	0.90 mg/L	0.10	1	AG63976	07/27/16 13:04	08/01/16 16:30	EPA 200.7	
Magnesium	4.9 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:30	EPA 200.7	
Manganese	0.065 mg/L	0.020	1	AG63976	07/27/16 13:04	08/01/16 16:30	EPA 200.7	
Sodium	46 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:30	EPA 200.7	
Zinc	0.13 mg/L	0.020	1	AG63976	07/27/16 13:04	08/01/16 16:30	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	240 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Biochemical Oxygen Demand	160 mg/L	5.0	1	AG63867	07/20/16 11:00	07/25/16 12:00	SM5210B	
pH	7.39 pH Units	1.68	1	AG63731	07/19/16 18:40	07/19/16 18:40	SM4500-H+ B	T-14
Specific Conductance (EC)	700 umhos/cm	20	1	AG63799	07/20/16 16:00	07/20/16 17:00	SM2510B	
Total Dissolved Solids	290 mg/L	10	1	AG63844	07/26/16 09:30	07/28/16 16:25	SM2540C	
Total Suspended Solids	110 mg/L	1.0	1	AG63705	07/20/16 09:55	07/25/16 09:37	SM2540D	
Volatile Suspended Solids	100 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	AG63835	07/25/16 09:00	07/25/16 12:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	200 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Total Alkalinity as CaCO3	200 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Total Kjeldahl Nitrogen	47 mg/L	1.0	1	AG63879	07/28/16 06:16	07/29/16 10:28	SM4500-Norg B	
Total Nitrogen	47 mg/L	1.0	1	AG63717	07/20/16 12:32	08/01/16 08:31	SM4500-N	
Hardness, Total	56 mg/L	5	1	AG63976	07/27/16 13:04	08/01/16 16:30	SM2340B	
Phosphorus, total	5.8 mg/L	0.80	2	AG64038	07/29/16 08:20	07/29/16 11:10	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:
08/03/16 11:11

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 071816A (16G1633-01)								
Sample Type: Water			Sampled: 07/19/16 09:00					
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.79 NA		1	AG63976	07/27/16 13:04	08/03/16 06:17	SAR	
Anions by EPA Method 300.0								
Chloride	45 mg/L	5.0	10	AG63687	07/20/16 14:25	07/20/16 14:25	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63687	07/20/16 15:13	07/20/16 15:13	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63687	07/20/16 15:13	07/20/16 15:13	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63687	07/20/16 15:13	07/20/16 15:13	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG63687	07/20/16 15:13	07/20/16 15:13	EPA 300.0	
Sulfate as SO4	28 mg/L	0.50	1	AG63687	07/20/16 15:13	07/20/16 15:13	EPA 300.0	
G13220 / 071816B (16G1633-02)								
Sample Type: Water			Sampled: 07/19/16 09:25					
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	18 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:34	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.65 mg/L	0.050	1	AG63976	07/27/16 13:04	08/01/16 16:34	EPA 200.7	
Boron	0.21 mg/L	0.050	1	AG63976	07/27/16 13:04	08/01/16 16:34	EPA 200.7	
Calcium	22 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:34	EPA 200.7	
Iron	1.9 mg/L	0.10	1	AG63976	07/27/16 13:04	08/01/16 16:34	EPA 200.7	
Magnesium	12 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:34	EPA 200.7	
Manganese	0.056 mg/L	0.020	1	AG63976	07/27/16 13:04	08/01/16 16:34	EPA 200.7	
Sodium	57 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:34	EPA 200.7	
Zinc	0.24 mg/L	0.020	1	AG63976	07/27/16 13:04	08/01/16 16:34	EPA 200.7	



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

Reported:
08/03/16 11:11

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13220 / 071816B (16G1633-02)								
		Sample Type: Water			Sampled: 07/19/16 09:25			
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	60 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C	
Bicarbonate	290 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Biochemical Oxygen Demand	430 mg/L	5.0	1	AG63867	07/20/16 11:00	07/25/16 12:00	SM5210B	
pH	7.45 pH Units	1.68	1	AG63731	07/19/16 18:40	07/19/16 18:40	SM4500-H+ B	T-14
Specific Conductance (EC)	840 umhos/cm	20	1	AG63799	07/20/16 16:00	07/20/16 17:00	SM2510B	
Total Dissolved Solids	360 mg/L	10	1	AG63844	07/26/16 09:30	07/28/16 16:25	SM2540C	
Total Suspended Solids	520 mg/L	1.0	1	AG63705	07/20/16 09:55	07/25/16 09:37	SM2540D	
Volatile Suspended Solids	490 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	EPA 160.4	
Silica	16 mg/L	5.0	5	AG63835	07/25/16 09:00	07/25/16 12:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	240 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Total Alkalinity as CaCO3	240 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Total Kjeldahl Nitrogen	76 mg/L	1.0	1	AG63879	07/28/16 06:16	07/29/16 10:28	SM4500-Norg B	
Total Nitrogen	76 mg/L	1.0	1	AG63717	07/20/16 12:32	08/01/16 08:31	SM4500-N	
Hardness, Total	103 mg/L	5	1	AG63976	07/27/16 13:04	08/01/16 16:34	SM2340B	
Phosphorus, total	12 mg/L	2.0	5	AG64038	07/29/16 08:20	07/29/16 11:10	SM4500-P E	
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNa	2.70 NA		1	AG63976	07/27/16 13:04	08/03/16 06:17	SAR	
Anions by EPA Method 300.0								
Chloride	58 mg/L	10	20	AG63687	07/20/16 16:50	07/20/16 16:50	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63687	07/20/16 17:06	07/20/16 17:06	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63687	07/20/16 17:06	07/20/16 17:06	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63687	07/20/16 17:06	07/20/16 17:06	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG63687	07/20/16 17:06	07/20/16 17:06	EPA 300.0	
Sulfate as SO4	50 mg/L	10	20	AG63687	07/20/16 16:50	07/20/16 16:50	EPA 300.0	
G13223 / 071816C (16G1633-03)								
		Sample Type: Water			Sampled: 07/19/16 08:30			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	19 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:54	EPA 200.7	

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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:
08/03/16 11:11

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 071816C (16G1633-03)								
Sample Type: Water								
Sampled: 07/19/16 08:30								
Metals by EPA 200 Series Methods								
Aluminum	0.58 mg/L	0.050	1	AG63976	07/27/16 13:04	08/01/16 16:54	EPA 200.7	
Boron	0.19 mg/L	0.050	1	AG63976	07/27/16 13:04	08/01/16 16:54	EPA 200.7	
Calcium	19 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:54	EPA 200.7	
Iron	1.4 mg/L	0.10	1	AG63976	07/27/16 13:04	08/01/16 16:54	EPA 200.7	
Magnesium	12 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:54	EPA 200.7	
Manganese	0.059 mg/L	0.020	1	AG63976	07/27/16 13:04	08/01/16 16:54	EPA 200.7	
Sodium	62 mg/L	1.0	1	AG63976	07/27/16 13:04	08/01/16 16:54	EPA 200.7	
Zinc	0.21 mg/L	0.020	1	AG63976	07/27/16 13:04	08/01/16 16:54	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	56 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C	
Bicarbonate	310 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Biochemical Oxygen Demand	330 mg/L	5.0	1	AG63867	07/20/16 11:00	07/25/16 12:00	SM5210B	
pH	7.42 pH Units	1.68	1	AG63731	07/19/16 18:40	07/19/16 18:40	SM4500-H+ B	T-14
Specific Conductance (EC)	900 umhos/cm	20	1	AG63799	07/20/16 16:00	07/20/16 17:00	SM2510B	
Total Dissolved Solids	390 mg/L	10	1	AG63844	07/26/16 09:30	07/28/16 16:25	SM2540C	
Total Suspended Solids	350 mg/L	1.0	1	AG63705	07/20/16 09:55	07/25/16 09:37	SM2540D	
Volatile Suspended Solids	310 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	EPA 160.4	
Silica	17 mg/L	5.0	5	AG63835	07/25/16 09:00	07/25/16 12:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	260 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Total Alkalinity as CaCO3	260 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Total Kjeldahl Nitrogen	64 mg/L	1.0	1	AG63879	07/28/16 06:16	07/29/16 10:28	SM4500-Norg B	
Total Nitrogen	64 mg/L	1.0	1	AG63717	07/20/16 12:32	08/01/16 08:31	SM4500-N	
Hardness, Total	97 mg/L	5	1	AG63976	07/27/16 13:04	08/01/16 16:54	SM2340B	
Phosphorus, total	8.9 mg/L	0.80	2	AG64038	07/29/16 08:20	07/29/16 11:10	SM4500-P E	

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

Reported:
08/03/16 11:11

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 071816C (16G1633-03)								
			Sample Type: Water		Sampled: 07/19/16 08:30			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNa	2.96 NA		1	AG63976	07/27/16 13:04	08/03/16 06:17	SAR	
Anions by EPA Method 300.0								
Chloride	65 mg/L	10	20	AG63687	07/20/16 17:22	07/20/16 17:22	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63687	07/20/16 17:38	07/20/16 17:38	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63687	07/20/16 17:38	07/20/16 17:38	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63687	07/20/16 17:38	07/20/16 17:38	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG63687	07/20/16 17:38	07/20/16 17:38	EPA 300.0	
Sulfate as SO4	57 mg/L	10	20	AG63687	07/20/16 17:22	07/20/16 17:22	EPA 300.0	



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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 AG63976 - Metals Digest									
Blank (AG63976-BLK1)				Prepared: 07/27/16 Analyzed: 08/01/16					
Potassium	ND	1.0	mg/L						
LCS (AG63976-BS1)				Prepared: 07/27/16 Analyzed: 08/01/16					
Potassium	7.28	1.0	mg/L	8.00		91.0	85-115		
Duplicate (AG63976-DUP1)				Source: 16G1562-01		Prepared: 07/27/16 Analyzed: 08/01/16			
Potassium	1.46	1.0	mg/L		1.51		3.12	20	
Matrix Spike (AG63976-MS1)				Source: 16G1562-01		Prepared: 07/27/16 Analyzed: 08/01/16			
Potassium	8.65	1.0	mg/L	8.00	1.51	89.2	70-130		
Matrix Spike (AG63976-MS2)				Source: 16G1657-01		Prepared: 07/27/16 Analyzed: 08/01/16			
Potassium	9.02	1.0	mg/L	8.00	1.45	94.6	70-130		
Matrix Spike Dup (AG63976-MSD1)				Source: 16G1562-01		Prepared: 07/27/16 Analyzed: 08/01/16			
Potassium	8.56	1.0	mg/L	8.00	1.51	88.2	70-130	0.976	20



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

Reported:
08/03/16 11:11

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 AG63976 - Metals Digest										
Blank (AG63976-BLK1)				Prepared: 07/27/16 Analyzed: 08/01/16						
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 (AG63976-BS1)				Prepared: 07/27/16 Analyzed: 08/01/16						
Aluminum	1.89	0.050	mg/L	2.00		94.4	85-115			
Boron	0.389	0.050	mg/L	0.400		97.3	85-115			
Calcium	7.45	1.0	mg/L	8.00		93.2	85-115			
Iron	1.95	0.10	mg/L	2.00		97.5	85-115			
Magnesium	7.71	1.0	mg/L	8.00		96.4	85-115			
Manganese	0.194	0.020	mg/L	0.200		96.8	85-115			
Sodium	7.99	1.0	mg/L	8.00		99.9	85-115			
Zinc	0.202	0.020	mg/L	0.200		101	85-115			
Duplicate (AG63976-DUP1)				Source: 16G1562-01		Prepared: 07/27/16 Analyzed: 08/01/16				
Aluminum	ND	0.050	mg/L		ND			5.07	20	
Boron	0.0812	0.050	mg/L		0.0850			4.55	20	
Calcium	75.0	1.0	mg/L		78.6			4.70	20	
Iron	ND	0.10	mg/L		0.101			6.43	20	
Magnesium	19.7	1.0	mg/L		21.0			6.32	20	
Manganese	ND	0.020	mg/L		ND			9.82	20	
Sodium	19.2	1.0	mg/L		20.2			4.87	20	
Zinc	ND	0.020	mg/L		ND				20	

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

Reported:
08/03/16 11:11

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 AG63976 - Metals Digest										
Matrix Spike (AG63976-MS1)		Source: 16G1562-01		Prepared: 07/27/16 Analyzed: 08/01/16						
Aluminum	1.93	0.050	mg/L	2.00	ND	94.8	70-130			
Boron	0.447	0.050	mg/L	0.400	0.0850	90.4	70-130			
Calcium	88.9	1.0	mg/L	8.00	78.6	128	70-130			
Iron	2.01	0.10	mg/L	2.00	0.101	95.6	70-130			
Magnesium	28.7	1.0	mg/L	8.00	21.0	95.8	70-130			
Manganese	0.195	0.020	mg/L	0.200	ND	95.4	70-130			
Sodium	29.1	1.0	mg/L	8.00	20.2	112	70-130			
Zinc	0.196	0.020	mg/L	0.200	ND	98.0	70-130			
Matrix Spike (AG63976-MS2)		Source: 16G1657-01		Prepared: 07/27/16 Analyzed: 08/01/16						
Aluminum	1.97	0.050	mg/L	2.00	ND	96.9	70-130			
Boron	0.561	0.050	mg/L	0.400	0.186	93.7	70-130			
Calcium	93.5	1.0	mg/L	8.00	84.1	118	70-130			
Iron	1.96	0.10	mg/L	2.00	ND	96.1	70-130			
Magnesium	78.3	1.0	mg/L	8.00	70.2	101	70-130			
Manganese	0.193	0.020	mg/L	0.200	ND	96.1	70-130			
Sodium	54.3	1.0	mg/L	8.00	45.4	112	70-130			
Zinc	0.192	0.020	mg/L	0.200	ND	96.0	70-130			
Matrix Spike Dup (AG63976-MSD1)		Source: 16G1562-01		Prepared: 07/27/16 Analyzed: 08/01/16						
Aluminum	1.90	0.050	mg/L	2.00	ND	93.1	70-130	1.74	20	QM-4X
Boron	0.445	0.050	mg/L	0.400	0.0850	89.9	70-130	0.400	20	
Calcium	83.3	1.0	mg/L	8.00	78.6	58.4	70-130	6.49	20	
Iron	1.99	0.10	mg/L	2.00	0.101	94.6	70-130	1.08	20	
Magnesium	28.5	1.0	mg/L	8.00	21.0	94.1	70-130	0.489	20	
Manganese	0.192	0.020	mg/L	0.200	ND	93.8	70-130	1.68	20	
Sodium	27.3	1.0	mg/L	8.00	20.2	88.4	70-130	6.68	20	
Zinc	0.195	0.020	mg/L	0.200	ND	97.4	70-130	0.598	20	

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

Reported:
08/03/16 11:11

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										
Blank (AG63705-BLK1)					Prepared: 07/20/16 Analyzed: 07/25/16					
Total Suspended Solids	ND	1.0	mg/L							
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 AG63731 - General Preparation										
Duplicate (AG63731-DUP1)					Source: 16G1740-01 Prepared & Analyzed: 07/19/16					
pH	8.27	1.68	pH Units		8.35			0.963	20	
Batch AG63799 - General Preparation										
Duplicate (AG63799-DUP1)					Source: 16G1772-01 Prepared & Analyzed: 07/20/16					
Specific Conductance (EC)	450	20	umhos/cm		449			0.222	5	



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Reported:
08/03/16 11:11

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 AG63802 - General Preparation										
Duplicate (AG63802-DUP1)	Source: 16G1883-01			Prepared & Analyzed: 07/27/16						
Bicarbonate	63.4	5.0	mg/L		62.2			1.94	20	
Total Alkalinity as CaCO ₃	52.0	5.0	mg/L		51.0			1.94	20	
Bicarbonate Alkalinity as CaCO ₃	52.0	5.0	mg/L		51.0			1.94	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	
Batch AG63835 - General Preparation										
Blank (AG63835-BLK1)	Prepared & Analyzed: 07/25/16									
Silica	ND	1.0	mg/L							
LCS (AG63835-BS1)	Prepared & Analyzed: 07/25/16									
Silica	9.92	1.0	mg/L	10.0		99.2	85-115			
LCS Dup (AG63835-BSD1)	Prepared & Analyzed: 07/25/16									
Silica	9.92	1.0	mg/L	10.0		99.2	85-115	0.00	20	
Duplicate (AG63835-DUP1)	Source: 16G1952-03			Prepared & Analyzed: 07/25/16						
Silica	17.4	5.0	mg/L		17.0			2.14	20	
Matrix Spike (AG63835-MS1)	Source: 16G1952-03			Prepared & Analyzed: 07/25/16						
Silica	42.3	5.0	mg/L	25.0	17.0	101	80-120			
Matrix Spike Dup (AG63835-MSD1)	Source: 16G1952-03			Prepared & Analyzed: 07/25/16						
Silica	40.8	5.0	mg/L	25.0	17.0	94.9	80-120	3.55	20	

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Project Number: [none]

Reported:
08/03/16 11:11

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 AG63844 - General Preparation										
Blank (AG63844-BLK1)				Prepared: 07/26/16 Analyzed: 07/28/16						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AG63844-DUP1)				Source: 16G1974-01 Prepared: 07/26/16 Analyzed: 07/28/16						
Total Dissolved Solids	353	10	mg/L		355			0.379	15	
Duplicate (AG63844-DUP2)				Source: 16G1833-01 Prepared: 07/26/16 Analyzed: 07/28/16						
Total Dissolved Solids	158	10	mg/L		153			3.22	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 AG63879 - General Prep										
LCS (AG63879-BS1)				Prepared & Analyzed: 07/26/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			



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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 AG63879 - General Prep										
LCS Dup (AG63879-BSD1)				Prepared & Analyzed: 07/26/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120	0.00	20	
Matrix Spike (AG63879-MS1)				Source: 16G1521-01 Prepared: 07/27/16 Analyzed: 07/28/16						
Total Kjeldahl Nitrogen	93.2	1.0	mg/L	22.6	53.9	173	75-125			QM-4X
Matrix Spike Dup (AG63879-MSD1)				Source: 16G1521-01 Prepared: 07/27/16 Analyzed: 07/28/16						
Total Kjeldahl Nitrogen	93.2	1.0	mg/L	22.6	53.9	173	75-125	0.00	20	QM-4X
Batch AG63976 - Metals Digest										
Blank (AG63976-BLK1)				Prepared: 07/27/16 Analyzed: 08/01/16						
Hardness, Total	ND	5	mg/L							
Duplicate (AG63976-DUP1)				Source: 16G1562-01 Prepared: 07/27/16 Analyzed: 08/01/16						
Hardness, Total	268	5	mg/L		283			5.19	20	
Batch AG64038 - General Prep										
Blank (AG64038-BLK1)				Prepared & Analyzed: 07/29/16						
Phosphorus, total	ND	0.040	mg/L							
LCS (AG64038-BS1)				Prepared & Analyzed: 07/29/16						
Phosphorus, total	0.203	0.040	mg/L	0.200		102	85-115			
Duplicate (AG64038-DUP1)				Source: 16G1775-01 Prepared & Analyzed: 07/29/16						
Phosphorus, total	0.505	0.20	mg/L		0.512			1.31	20	

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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 AG64038 - General Prep										
Matrix Spike (AG64038-MS1)		Source: 16G1775-01		Prepared & Analyzed: 07/29/16						
Phosphorus, total	1.43	0.20	mg/L	1.00	0.512	92.3	70-130			
Matrix Spike Dup (AG64038-MSD1)		Source: 16G1775-01		Prepared & Analyzed: 07/29/16						
Phosphorus, total	1.43	0.20	mg/L	1.00	0.512	92.3	70-130	0.00	20	
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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Reported:
08/03/16 11:11

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 AG63687 - General Preparation										
LCS (AG63687-BS1)				Prepared & Analyzed: 07/20/16						
Nitrite as NO ₂	18.5	1.0	mg/L	18.2		102	90-110			
Chloride	11.6	0.50	mg/L	11.1		104	90-110			
Nitrite as N	5.64	0.20	mg/L	5.56		102	90-110			
Nitrate as N	5.90	0.20	mg/L	5.56		106	90-110			
Sulfate as SO ₄	23.2	0.50	mg/L	22.2		104	90-110			
Nitrate as NO ₃	26	1.0	mg/L	24.7		106	90-110			
Duplicate (AG63687-DUP1)				Source: 16G1615-01		Prepared & Analyzed: 07/20/16				
Chloride	13.1	0.50	mg/L		12.9			1.51	20	
Nitrite as N	ND	0.20	mg/L		ND				20	
Nitrite as NO ₂	ND	1.0	mg/L		ND				20	
Sulfate as SO ₄	3.56	0.50	mg/L		3.57			0.281	20	
Nitrate as N	0.583	0.20	mg/L		0.588			0.964	20	
Nitrate as NO ₃	2.6	1.0	mg/L		2.6			0.964	20	
Matrix Spike (AG63687-MS1)				Source: 16G1615-01		Prepared & Analyzed: 07/20/16				
Nitrate as N	6.55	0.20	mg/L	5.56	0.588	107	80-120			
Nitrite as NO ₂	18.5	1.0	mg/L	18.2	ND	102	80-120			
Nitrite as N	5.65	0.20	mg/L	5.56	ND	102	80-120			
Sulfate as SO ₄	27.2	0.50	mg/L	22.2	3.57	106	80-120			
Chloride	23.6	0.50	mg/L	11.1	12.9	96.5	80-120			
Nitrate as NO ₃	29	1.0	mg/L	24.7	2.6	107	80-120			
Matrix Spike (AG63687-MS2)				Source: 16G1641-01		Prepared & Analyzed: 07/20/16				
Nitrite as N	5.71	0.20	mg/L	5.56	ND	103	80-120			
Nitrate as NO ₃	27	1.0	mg/L	24.7	ND	107	80-120			
Sulfate as SO ₄	23.7	0.50	mg/L	22.2	ND	106	80-120			
Nitrite as NO ₂	18.8	1.0	mg/L	18.2	ND	103	80-120			
Chloride	12.7	0.50	mg/L	11.1	0.936	106	80-120			
Nitrate as N	5.99	0.20	mg/L	5.56	ND	107	80-120			

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08/03/16 11:11

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 AG63687 - General Preparation

Matrix Spike Dup (AG63687-MSD1)

Source: 16G1615-01

Prepared & Analyzed: 07/20/16

Sulfate as SO4	27.5	0.50	mg/L	22.2	3.57	108	80-120	1.11	20	
Nitrite as N	5.73	0.20	mg/L	5.56	ND	103	80-120	1.47	20	
Chloride	23.8	0.50	mg/L	11.1	12.9	98.0	80-120	0.703	20	
Nitrate as NO3	29	1.0	mg/L	24.7	2.6	109	80-120	1.56	20	
Nitrate as N	6.65	0.20	mg/L	5.56	0.588	109	80-120	1.56	20	
Nitrite as NO2	18.8	1.0	mg/L	18.2	ND	103	80-120	1.47	20	



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08/03/16 11:11

Notes and Definitions

- 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.
- 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]