



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

04 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16G1817

Enclosed are the results of analyses for samples received by the laboratory on 07/20/16 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



Alpha Analytical Laboratories Inc.

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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:
08/04/16 16:25

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13104 / 071916A	16G1817-01	Water	07/20/16 08:50	07/20/16 21:00
G13220 / 071916B	16G1817-02	Water	07/20/16 09:20	07/20/16 21:00
G13223 / 071916C	16G1817-03	Water	07/20/16 08:15	07/20/16 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:
08/04/16 16:25

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 071916A (16G1817-01)								
Sample Type: Water								
Sampled: 07/20/16 08:50								
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	14 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 14:51	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.39 mg/L	0.050	1	AG64062	07/29/16 12:05	08/02/16 14:51	EPA 200.7	
Boron	0.25 mg/L	0.050	1	AG64062	07/29/16 12:05	08/02/16 14:51	EPA 200.7	
Calcium	18 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 14:51	EPA 200.7	
Iron	1.2 mg/L	0.10	1	AG64062	07/29/16 12:05	08/02/16 14:51	EPA 200.7	
Magnesium	4.1 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 14:51	EPA 200.7	
Manganese	0.070 mg/L	0.020	1	AG64062	07/29/16 12:05	08/02/16 14:51	EPA 200.7	
Sodium	51 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 14:51	EPA 200.7	
Zinc	0.15 mg/L	0.020	1	AG64062	07/29/16 12:05	08/02/16 14:51	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	60 mg/L	0.50	1	AH63179	08/02/16 08:08	08/02/16 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	240 mg/L	5.0	1	AG63922	07/21/16 15:30	07/26/16 13:00	SM5210B	
pH	7.52 pH Units	1.68	1	AG63765	07/20/16 19:00	07/20/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	710 umhos/cm	20	1	AG63848	07/21/16 16:00	07/21/16 17:00	SM2510B	
Total Dissolved Solids	340 mg/L	10	1	AG63928	07/26/16 14:57	08/02/16 17:08	SM2540C	
Total Suspended Solids	170 mg/L	1.0	1	AG63888	07/26/16 08:30	07/28/16 14:30	SM2540D	
Volatile Suspended Solids	160 mg/L	1.0	1	AG63933	07/26/16 15:40	08/03/16 16:54	EPA 160.4	
Silica	15 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	46 mg/L	1.0	1	AG63879	07/28/16 06:16	08/01/16 14:03	SM4500-Norg B	
Total Nitrogen	46 mg/L	1.0	1	AG63891	07/26/16 09:20	08/01/16 16:53	SM4500-N	
Hardness, Total	63 mg/L	5	1	AG64062	07/29/16 12:05	08/02/16 14:51	SM2340B	
Phosphorus, total	5.9 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:
08/04/16 16:25

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 071916A (16G1817-01)								
Sample Type: Water			Sampled: 07/20/16 08:50					
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	3.02 NA		1	AG64062	07/29/16 12:05	08/04/16 05:44	SAR	
Anions by EPA Method 300.0								
Chloride	64 mg/L	5.0	10	AG63742	07/21/16 18:20	07/21/16 18:20	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63742	07/21/16 18:36	07/21/16 18:36	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63742	07/21/16 18:36	07/21/16 18:36	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63742	07/21/16 18:36	07/21/16 18:36	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG63742	07/21/16 18:36	07/21/16 18:36	EPA 300.0	
Sulfate as SO4	20 mg/L	0.50	1	AG63742	07/21/16 18:36	07/21/16 18:36	EPA 300.0	
G13220 / 071916B (16G1817-02)								
Sample Type: Water			Sampled: 07/20/16 09:20					
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	13 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 14:56	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.63 mg/L	0.050	1	AG64062	07/29/16 12:05	08/02/16 14:56	EPA 200.7	
Boron	0.13 mg/L	0.050	1	AG64062	07/29/16 12:05	08/02/16 14:56	EPA 200.7	
Calcium	24 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 14:56	EPA 200.7	
Iron	1.8 mg/L	0.10	1	AG64062	07/29/16 12:05	08/02/16 14:56	EPA 200.7	
Magnesium	13 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 14:56	EPA 200.7	
Manganese	0.053 mg/L	0.020	1	AG64062	07/29/16 12:05	08/02/16 14:56	EPA 200.7	
Sodium	48 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 14:56	EPA 200.7	
Zinc	0.22 mg/L	0.020	1	AG64062	07/29/16 12:05	08/02/16 14:56	EPA 200.7	

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

Reported:
08/04/16 16:25

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13220 / 071916B (16G1817-02)								
		Sample Type: Water			Sampled: 07/20/16 09:20			
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	61 mg/L	0.50	1	AH63179	08/02/16 08:08	08/02/16 17:00	SM4500NH3C	
Bicarbonate	250 mg/L	5.0	1	AG63802	07/27/16 08:00	07/27/16 16:30	SM2320B	
Biochemical Oxygen Demand	210 mg/L	5.0	1	AG63922	07/21/16 15:30	07/26/16 13:00	SM5210B	
pH	7.55 pH Units	1.68	1	AG63765	07/20/16 19:00	07/20/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	790 umhos/cm	20	1	AG63848	07/21/16 16:00	07/21/16 17:00	SM2510B	
Total Dissolved Solids	540 mg/L	10	1	AG63928	07/26/16 14:57	08/03/16 12:23	SM2540C	
Total Suspended Solids	220 mg/L	1.0	1	AG63888	07/26/16 08:30	07/28/16 14:30	SM2540D	
Volatile Suspended Solids	200 mg/L	1.0	1	AG63933	07/26/16 15:40	08/03/16 16:54	EPA 160.4	
Silica	18 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	49 mg/L	1.0	1	AG63879	07/28/16 06:16	08/01/16 14:03	SM4500-Norg B	
Total Nitrogen	49 mg/L	1.0	1	AG63891	07/26/16 09:20	08/01/16 16:53	SM4500-N	
Hardness, Total	115 mg/L	5	1	AG64062	07/29/16 12:05	08/02/16 14:56	SM2340B	
Phosphorus, total	7.0 mg/L	0.80	2	AG64038	07/29/16 08:20	07/29/16 11:10	SM4500-P E	
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNa	2.09 NA		1	AG64062	07/29/16 12:05	08/04/16 05:44	SAR	
Anions by EPA Method 300.0								
Chloride	55 mg/L	5.0	10	AG63742	07/21/16 18:53	07/21/16 18:53	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63742	07/21/16 19:09	07/21/16 19:09	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63742	07/21/16 19:09	07/21/16 19:09	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63742	07/21/16 19:09	07/21/16 19:09	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG63742	07/21/16 19:09	07/21/16 19:09	EPA 300.0	
Sulfate as SO4	73 mg/L	5.0	10	AG63742	07/21/16 18:53	07/21/16 18:53	EPA 300.0	
G13223 / 071916C (16G1817-03)								
		Sample Type: Water			Sampled: 07/20/16 08:15			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	16 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 15:00	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:
08/04/16 16:25

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 071916C (16G1817-03)								
Sample Type: Water								
Sampled: 07/20/16 08:15								
Metals by EPA 200 Series Methods								
Aluminum	0.62 mg/L	0.050	1	AG64062	07/29/16 12:05	08/02/16 15:00	EPA 200.7	
Boron	0.17 mg/L	0.050	1	AG64062	07/29/16 12:05	08/02/16 15:00	EPA 200.7	
Calcium	15 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 15:00	EPA 200.7	
Iron	1.5 mg/L	0.10	1	AG64062	07/29/16 12:05	08/02/16 15:00	EPA 200.7	
Magnesium	5.6 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 15:00	EPA 200.7	
Manganese	0.057 mg/L	0.020	1	AG64062	07/29/16 12:05	08/02/16 15:00	EPA 200.7	
Sodium	45 mg/L	1.0	1	AG64062	07/29/16 12:05	08/02/16 15:00	EPA 200.7	
Zinc	0.20 mg/L	0.020	1	AG64062	07/29/16 12:05	08/02/16 15:00	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	66 mg/L	0.50	1	AH63179	08/02/16 08:08	08/02/16 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	260 mg/L	5.0	1	AG63922	07/21/16 15:30	07/26/16 13:00	SM5210B	
pH	7.50 pH Units	1.68	1	AG63765	07/20/16 19:00	07/20/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	840 umhos/cm	20	1	AG63848	07/21/16 16:00	07/21/16 17:00	SM2510B	
Total Dissolved Solids	350 mg/L	10	1	AG63928	07/26/16 14:57	08/02/16 17:08	SM2540C	
Total Suspended Solids	280 mg/L	1.0	1	AG63836	07/25/16 09:02	07/26/16 11:30	SM2540D	
Volatile Suspended Solids	250 mg/L	1.0	1	AG63933	07/26/16 15:40	08/03/16 16:54	EPA 160.4	
Silica	19 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	72 mg/L	1.0	1	AG63879	07/28/16 06:16	08/01/16 14:03	SM4500-Norg B	
Total Nitrogen	72 mg/L	1.0	1	AG63891	07/26/16 09:20	08/01/16 16:53	SM4500-N	
Hardness, Total	61 mg/L	5	1	AG64062	07/29/16 12:05	08/02/16 15:00	SM2340B	
Phosphorus, total	9.0 mg/L	2.0	5	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:
08/04/16 16:25

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 071916C (16G1817-03)		Sample Type: Water			Sampled: 07/20/16 08:15			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNa	2.77 NA		1	AG64062	07/29/16 12:05	08/04/16 05:44	SAR	
Anions by EPA Method 300.0								
Chloride	58 mg/L	5.0	10	AG63742	07/21/16 19:25	07/21/16 19:25	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63742	07/21/16 19:41	07/21/16 19:41	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG63742	07/21/16 19:41	07/21/16 19:41	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG63742	07/21/16 19:41	07/21/16 19:41	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG63742	07/21/16 19:41	07/21/16 19:41	EPA 300.0	
Sulfate as SO4	29 mg/L	0.50	1	AG63742	07/21/16 19:41	07/21/16 19:41	EPA 300.0	



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Reported:
08/04/16 16:25

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 AG64062 - Metals Digest									
Blank (AG64062-BLK1)				Prepared: 07/29/16 Analyzed: 08/02/16					
Potassium	ND	1.0	mg/L						
LCS (AG64062-BS1)				Prepared: 07/29/16 Analyzed: 08/02/16					
Potassium	7.29	1.0	mg/L	8.00		91.1	85-115		
Duplicate (AG64062-DUP1)				Source: 16G1991-01		Prepared: 07/29/16 Analyzed: 08/02/16			
Potassium	1.29	1.0	mg/L		1.31		1.52	20	
Matrix Spike (AG64062-MS1)				Source: 16G1991-01		Prepared: 07/29/16 Analyzed: 08/02/16			
Potassium	8.42	1.0	mg/L	8.00	1.31	88.9	70-130		
Matrix Spike (AG64062-MS2)				Source: 16G1866-01		Prepared: 07/29/16 Analyzed: 08/02/16			
Potassium	11.2	1.0	mg/L	8.00	4.36	85.1	70-130		
Matrix Spike Dup (AG64062-MSD1)				Source: 16G1991-01		Prepared: 07/29/16 Analyzed: 08/02/16			
Potassium	9.08	1.0	mg/L	8.00	1.31	97.2	70-130	7.57	20



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

Reported:
08/04/16 16:25

Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Flag
Batch AG64062 - Metals Digest									
Blank (AG64062-BLK1)				Prepared: 07/29/16 Analyzed: 08/02/16					
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 (AG64062-BS1)				Prepared: 07/29/16 Analyzed: 08/02/16					
Aluminum	1.78	0.050	mg/L	2.00		88.8	85-115		
Boron	0.366	0.050	mg/L	0.400		91.5	85-115		
Calcium	7.02	1.0	mg/L	8.00		87.8	85-115		
Iron	1.84	0.10	mg/L	2.00		91.8	85-115		
Magnesium	7.04	1.0	mg/L	8.00		88.0	85-115		
Manganese	0.181	0.020	mg/L	0.200		90.6	85-115		
Sodium	7.25	1.0	mg/L	8.00		90.6	85-115		
Zinc	0.183	0.020	mg/L	0.200		91.7	85-115		
Duplicate (AG64062-DUP1)				Source: 16G1991-01		Prepared: 07/29/16 Analyzed: 08/02/16			
Aluminum	ND	0.050	mg/L		ND		2.44	20	
Boron	0.119	0.050	mg/L		0.117		1.67	20	
Calcium	109	1.0	mg/L		108		1.49	20	
Iron	ND	0.10	mg/L		ND			20	
Magnesium	6.52	1.0	mg/L		6.72		3.08	20	
Manganese	ND	0.020	mg/L		ND		3.57	20	
Sodium	18.2	1.0	mg/L		17.8		1.98	20	
Zinc	ND	0.020	mg/L		ND			20	



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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:
08/04/16 16:25

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 AG64062 - Metals Digest										
Matrix Spike (AG64062-MS1)	Source: 16G1991-01			Prepared: 07/29/16 Analyzed: 08/02/16						
Aluminum	1.75	0.050	mg/L	2.00	ND	86.1	70-130			
Boron	0.452	0.050	mg/L	0.400	0.117	83.6	70-130			
Calcium	112	1.0	mg/L	8.00	108	55.0	70-130			QM-4X
Iron	1.73	0.10	mg/L	2.00	ND	86.6	70-130			
Magnesium	12.9	1.0	mg/L	8.00	6.72	77.5	70-130			
Manganese	0.171	0.020	mg/L	0.200	ND	85.4	70-130			
Sodium	24.6	1.0	mg/L	8.00	17.8	85.1	70-130			
Zinc	0.175	0.020	mg/L	0.200	ND	87.3	70-130			
Matrix Spike (AG64062-MS2)	Source: 16G1866-01			Prepared: 07/29/16 Analyzed: 08/02/16						
Aluminum	1.88	0.050	mg/L	2.00	ND	91.8	70-130			
Boron	0.590	0.050	mg/L	0.400	0.215	93.8	70-130			
Calcium	93.1	1.0	mg/L	8.00	88.8	53.9	70-130			QM-4X
Iron	1.92	0.10	mg/L	2.00	ND	94.3	70-130			
Magnesium	43.8	1.0	mg/L	8.00	36.2	94.8	70-130			
Manganese	0.191	0.020	mg/L	0.200	ND	93.4	70-130			
Sodium	56.0	1.0	mg/L	8.00	49.9	76.5	70-130			
Zinc	0.184	0.020	mg/L	0.200	ND	91.9	70-130			
Matrix Spike Dup (AG64062-MSD1)	Source: 16G1991-01			Prepared: 07/29/16 Analyzed: 08/02/16						
Aluminum	1.92	0.050	mg/L	2.00	ND	94.4	70-130	9.04	20	
Boron	0.498	0.050	mg/L	0.400	0.117	95.2	70-130	9.81	20	
Calcium	115	1.0	mg/L	8.00	108	84.7	70-130	2.09	20	
Iron	1.92	0.10	mg/L	2.00	ND	95.9	70-130	10.1	20	
Magnesium	13.9	1.0	mg/L	8.00	6.72	89.8	70-130	7.35	20	
Manganese	0.189	0.020	mg/L	0.200	ND	94.1	70-130	9.68	20	
Sodium	25.2	1.0	mg/L	8.00	17.8	92.7	70-130	2.44	20	
Zinc	0.192	0.020	mg/L	0.200	ND	96.1	70-130	9.56	20	

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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:
08/04/16 16:25

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 AG63765 - General Preparation										
Duplicate (AG63765-DUP1)		Source: 16G1808-01			Prepared & Analyzed: 07/20/16					
pH	6.72	1.68	pH Units		6.79			1.04	20	
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	
Hydroxide Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Carbonate Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Bicarbonate Alkalinity as CaCO ₃	52.0	5.0	mg/L		51.0			1.94	20	
Total Alkalinity as CaCO ₃	52.0	5.0	mg/L		51.0			1.94	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			

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

Reported:
08/04/16 16:25

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
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Batch AG63835 - General Preparation

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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Batch AG63836 - General Preparation

Blank (AG63836-BLK1)

Prepared: 07/25/16 Analyzed: 07/26/16

Total Suspended Solids	ND	1.0	mg/L							
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Duplicate (AG63836-DUP1)

Source: 16G1591-02

Prepared: 07/25/16 Analyzed: 07/26/16

Total Suspended Solids	328	1.0	mg/L		274			18.2	30	
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Duplicate (AG63836-DUP2)

Source: 16G1817-03

Prepared: 07/25/16 Analyzed: 07/26/16

Total Suspended Solids	369	1.0	mg/L		282			26.7	30	
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Batch AG63848 - General Preparation

Duplicate (AG63848-DUP1)

Source: 16G1868-02

Prepared & Analyzed: 07/21/16

Specific Conductance (EC)	811	20	umhos/cm		796			1.87	5	
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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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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	
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Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: [none]

Reported:
08/04/16 16:25

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										
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 AG63888 - General Preparation										
Blank (AG63888-BLK1)		Prepared: 07/26/16 Analyzed: 07/28/16								
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AG63888-DUP1)		Source: 16G1817-01		Prepared: 07/26/16 Analyzed: 07/28/16						
Total Suspended Solids	152	1.0	mg/L		166			8.94	30	
Duplicate (AG63888-DUP2)		Source: 16G1817-02		Prepared: 07/26/16 Analyzed: 07/28/16						
Total Suspended Solids	237	1.0	mg/L		222			6.54	30	
Batch AG63922 - General Preparation										
Blank (AG63922-BLK1)		Prepared: 07/21/16 Analyzed: 07/26/16								
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AG63922-BLK2)		Prepared: 07/21/16 Analyzed: 07/26/16								
Biochemical Oxygen Demand	ND	5.0	mg/L							
LCS (AG63922-BS1)		Prepared: 07/20/16 Analyzed: 07/25/16								
Biochemical Oxygen Demand	212	5.0	mg/L	200		106	84-115			

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

Reported:
08/04/16 16:25

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 AG63922 - General Preparation										
Duplicate (AG63922-DUP1)		Source: 16G1890-02		Prepared: 07/21/16 Analyzed: 07/26/16						
Biochemical Oxygen Demand	32.0	5.0	mg/L		33.9			5.77	30	
Batch AG63928 - General Preparation										
Blank (AG63928-BLK1)		Prepared: 07/26/16 Analyzed: 08/02/16								
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AG63928-DUP1)		Source: 16G1817-01		Prepared: 07/26/16 Analyzed: 08/02/16						
Total Dissolved Solids	376	10	mg/L		340			10.1	15	
Duplicate (AG63928-DUP2)		Source: 16G1859-02		Prepared: 07/26/16 Analyzed: 08/02/16						
Total Dissolved Solids	272	10	mg/L		257			5.67	15	
Batch AG63933 - General Preparation										
Blank (AG63933-BLK1)		Prepared: 07/26/16 Analyzed: 08/03/16								
Volatile Suspended Solids	ND	1.0	mg/L							
Duplicate (AG63933-DUP1)		Source: 16G1817-01		Prepared: 07/26/16 Analyzed: 08/03/16						
Volatile Suspended Solids	117	1.0	mg/L		155			28.1	30	
Duplicate (AG63933-DUP2)		Source: 16G1817-03		Prepared: 07/26/16 Analyzed: 08/03/16						
Volatile Suspended Solids	331	1.0	mg/L		251			27.4	30	
Batch AG64038 - General Prep										
Blank (AG64038-BLK1)		Prepared & Analyzed: 07/29/16								
Phosphorus, total	ND	0.040	mg/L							



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Project: WQ Monitoring
Project Number: [none]

Reported:
08/04/16 16:25

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										
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	
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 AG64062 - Metals Digest										
Blank (AG64062-BLK1)				Prepared: 07/29/16 Analyzed: 08/02/16						
Hardness, Total	ND	5	mg/L							
Duplicate (AG64062-DUP1)				Source: 16G1991-01 Prepared: 07/29/16 Analyzed: 08/02/16						
Hardness, Total	300	5	mg/L		297			1.07	20	
Batch AH63179 - General Preparation										
Blank (AH63179-BLK1)				Prepared & Analyzed: 08/02/16						
Ammonia as NH3	ND	0.50	mg/L							
LCS (AH63179-BS1)				Prepared & Analyzed: 08/02/16						
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110			

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Reported:
08/04/16 16:25

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 AH63179 - General Preparation										
LCS Dup (AH63179-BSD1)				Prepared & Analyzed: 08/02/16						
Ammonia as NH3	5.75	0.50	mg/L	6.10		94.2	90-110	3.64	10	
Matrix Spike (AH63179-MS1)				Source: 16G2534-02 Prepared & Analyzed: 08/02/16						
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115			
Matrix Spike Dup (AH63179-MSD1)				Source: 16G2534-02 Prepared & Analyzed: 08/02/16						
Ammonia as NH3	12.1	0.50	mg/L	12.2	ND	99.5	85-115	1.77	20	



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

Reported:
08/04/16 16:25

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 AG63742 - General Preparation										
Blank (AG63742-BLK1)				Prepared & Analyzed: 07/21/16						
Nitrate as NO3	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							
Nitrite as N	ND	0.20	mg/L							
Chloride	ND	0.50	mg/L							
Sulfate as SO4	ND	0.50	mg/L							
Nitrite as NO2	ND	1.0	mg/L							
LCS (AG63742-BS1)				Prepared & Analyzed: 07/21/16						
Nitrite as N	5.54	0.20	mg/L	5.56		99.7	90-110			
Nitrate as N	5.81	0.20	mg/L	5.56		105	90-110			
Chloride	11.4	0.50	mg/L	11.1		103	90-110			
Nitrite as NO2	18.2	1.0	mg/L	18.2		99.9	90-110			
Nitrate as NO3	26	1.0	mg/L	24.7		104	90-110			
Sulfate as SO4	22.9	0.50	mg/L	22.2		103	90-110			
Duplicate (AG63742-DUP1)				Source: 16G1826-01 Prepared & Analyzed: 07/21/16						
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Nitrite as N	ND	0.20	mg/L		ND				20	
Chloride	44.9	2.5	mg/L		45.1			0.289	20	
Nitrate as NO3	ND	1.0	mg/L		ND			2.73	20	
Nitrate as N	ND	0.20	mg/L		ND			2.73	20	
Sulfate as SO4	9.40	0.50	mg/L		9.34			0.640	20	
Matrix Spike (AG63742-MS1)				Source: 16G1826-01 Prepared & Analyzed: 07/21/16						
Chloride	56.0	2.5	mg/L	11.1	45.1	98.2	80-120			
Sulfate as SO4	31.8	2.5	mg/L	22.2	9.34	101	80-120			
Nitrite as N	5.27	1.0	mg/L	5.56	ND	94.9	80-120			
Nitrate as NO3	25	5.0	mg/L	24.7	ND	99.7	80-120			
Nitrate as N	5.60	1.0	mg/L	5.56	ND	99.9	80-120			
Nitrite as NO2	17.3	5.0	mg/L	18.2	ND	95.1	80-120			

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

Reported:
08/04/16 16:25

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 AG63742 - General Preparation

Matrix Spike (AG63742-MS2)

Source: 16G1833-01

Prepared & Analyzed: 07/21/16

Nitrite as N	5.73	0.20	mg/L	5.56	ND	102	80-120			
Chloride	18.0	0.50	mg/L	11.1	6.70	102	80-120			
Nitrate as N	6.02	0.20	mg/L	5.56	ND	107	80-120			
Sulfate as SO4	35.4	0.50	mg/L	22.2	12.1	105	80-120			
Nitrite as NO2	18.8	1.0	mg/L	18.2	ND	102	80-120			
Nitrate as NO3	27	1.0	mg/L	24.7	ND	107	80-120			

Matrix Spike Dup (AG63742-MSD1)

Source: 16G1826-01

Prepared & Analyzed: 07/21/16

Nitrite as N	5.25	1.0	mg/L	5.56	ND	94.5	80-120	0.422	20	
Nitrite as NO2	17.2	5.0	mg/L	18.2	ND	94.7	80-120	0.422	20	
Sulfate as SO4	31.8	2.5	mg/L	22.2	9.34	101	80-120	0.0524	20	
Chloride	55.9	2.5	mg/L	11.1	45.1	97.6	80-120	0.119	20	
Nitrate as NO3	25	5.0	mg/L	24.7	ND	100	80-120	0.625	20	
Nitrate as N	5.64	1.0	mg/L	5.56	ND	101	80-120	0.625	20	



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

Reported:
08/04/16 16:25

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]