



Alpha Analytical Laboratories Inc.

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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

09 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16G2111

Enclosed are the results of analyses for samples received by the laboratory on 07/25/16 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:  
08/09/16 16:17

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13104 / 072116A	16G2111-01	Water	07/22/16 09:10	07/25/16 21:00
G13220 / 072116B	16G2111-02	Water	07/22/16 09:50	07/25/16 21:00
G13223 / 072116C	16G2111-03	Water	07/22/16 08:35	07/25/16 21:00



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

Reported:  
08/09/16 16:17

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>G13104 / 072116A (16G2111-01)</b>								
<b>Sample Type: Water</b>								
<b>Sampled: 07/22/16 09:10</b>								
<b>Metals (Drinking Water) by EPA 200 Series Methods</b>								
Potassium	16 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:17	EPA 200.7	
<b>Metals by EPA 200 Series Methods</b>								
Aluminum	0.80 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:17	EPA 200.7	
Boron	0.19 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:17	EPA 200.7	
Calcium	20 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:17	EPA 200.7	
Iron	2.7 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 18:17	EPA 200.7	
Magnesium	5.1 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:17	EPA 200.7	
Manganese	0.097 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:17	EPA 200.7	
Sodium	45 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:17	EPA 200.7	
Zinc	0.31 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:17	EPA 200.7	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
Ammonia as NH <sub>3</sub>	49 mg/L	0.50	1	AH63376	08/08/16 08:11	08/09/16 17:00	SM4500NH <sub>3</sub> C	
Bicarbonate	260 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Biochemical Oxygen Demand	210 mg/L	5.0	1	AG63969	07/22/16 18:00	07/27/16 12:30	SM5210B	
pH	7.40 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	720 umhos/cm	20	1	AG63944	07/26/16 16:00	07/26/16 17:00	SM2510B	
Total Dissolved Solids	380 mg/L	10	1	AG64010	07/28/16 12:00	08/03/16 12:08	SM2540C	
Total Suspended Solids	590 mg/L	1.0	1	AG63995	07/28/16 08:09	07/29/16 13:49	SM2540D	
Volatile Suspended Solids	550 mg/L	1.0	1	AG63933	07/26/16 15:40	08/03/16 16:54	EPA 160.4	
Silica	16 mg/L	5.0	5	AH63132	08/01/16 09:30	08/01/16 12:00	SM4500-SiO <sub>2</sub> C	
Bicarbonate Alkalinity as CaCO <sub>3</sub>	220 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Carbonate Alkalinity as CaCO <sub>3</sub>	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Hydroxide Alkalinity as CaCO <sub>3</sub>	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Alkalinity as CaCO <sub>3</sub>	220 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Kjeldahl Nitrogen	48 mg/L	1.0	1	AG64039	08/04/16 06:49	08/05/16 10:35	SM4500-Norg B	
Total Nitrogen	48 mg/L	1.0	1	AH63264	08/03/16 15:38	08/05/16 11:55	SM4500-N	
Hardness, Total	72 mg/L	5	1	AG64063	07/29/16 12:11	08/02/16 18:17	SM2340B	
Phosphorus, total	6.6 mg/L	0.80	2	AH63124	08/01/16 07:45	08/01/16 15:02	SM4500-P E	

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

Reported:  
08/09/16 16:17

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072116A (16G2111-01)								
Sample Type: Water			Sampled: 07/22/16 09:10					
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.56 NA		1	AG64063	07/29/16 12:11	08/08/16 05:15	SAR	
Anions by EPA Method 300.0								
Chloride	53 mg/L	5.0	10	AG63895	07/26/16 14:26	07/26/16 14:26	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63895	07/26/16 14:42	07/26/16 14:42	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63895	07/26/16 14:42	07/26/16 14:42	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63985	07/27/16 13:10	07/27/16 13:10	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63985	07/27/16 13:10	07/27/16 13:10	EPA 300.0	T-5
Sulfate as SO4	20 mg/L	0.50	1	AG63895	07/26/16 14:42	07/26/16 14:42	EPA 300.0	
G13220 / 072116B (16G2111-02)								
Sample Type: Water			Sampled: 07/22/16 09:50					
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	18 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:22	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.38 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:22	EPA 200.7	
Boron	0.15 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:22	EPA 200.7	
Calcium	16 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:22	EPA 200.7	
Iron	3.2 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 18:22	EPA 200.7	
Magnesium	7.9 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:22	EPA 200.7	
Manganese	0.055 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:22	EPA 200.7	
Sodium	45 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:22	EPA 200.7	
Zinc	0.14 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:22	EPA 200.7	

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Project Number: [none]

Reported:  
08/09/16 16:17

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13220 / 072116B (16G2111-02)								
Sample Type: Water			Sampled: 07/22/16 09:50					
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	60 mg/L	0.50	1	AH63376	08/08/16 08:11	08/09/16 17:00	SM4500NH3C	
Bicarbonate	330 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Biochemical Oxygen Demand	120 mg/L	5.0	1	AG63969	07/22/16 18:00	07/27/16 12:30	SM5210B	
pH	7.36 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	870 umhos/cm	20	1	AG63944	07/26/16 16:00	07/26/16 17:00	SM2510B	
Total Dissolved Solids	390 mg/L	10	1	AG64010	07/28/16 12:00	08/02/16 17:02	SM2540C	
Total Suspended Solids	370 mg/L	1.0	1	AG63995	07/28/16 08:09	07/29/16 13:49	SM2540D	
Volatile Suspended Solids	340 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	AH63132	08/01/16 09:30	08/01/16 12:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	270 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Alkalinity as CaCO3	270 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Kjeldahl Nitrogen	67 mg/L	1.0	1	AG64039	08/04/16 06:49	08/05/16 10:35	SM4500-Norg B	
Total Nitrogen	67 mg/L	1.0	1	AH63264	08/03/16 15:38	08/05/16 11:55	SM4500-N	
Hardness, Total	72 mg/L	5	1	AG64063	07/29/16 12:11	08/02/16 18:22	SM2340B	
Phosphorus, total	8.2 mg/L	0.80	2	AH63124	08/01/16 07:45	08/01/16 15:02	SM4500-P E	
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNa	2.57 NA		1	AG64063	07/29/16 12:11	08/08/16 05:15	SAR	
Anions by EPA Method 300.0								
Chloride	53 mg/L	5.0	10	AG63895	07/26/16 14:59	07/26/16 14:59	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63895	07/26/16 15:15	07/26/16 15:15	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63895	07/26/16 15:15	07/26/16 15:15	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63985	07/27/16 13:26	07/27/16 13:26	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63985	07/27/16 13:26	07/27/16 13:26	EPA 300.0	T-5
Sulfate as SO4	40 mg/L	0.50	1	AG63895	07/26/16 15:15	07/26/16 15:15	EPA 300.0	
G13223 / 072116C (16G2111-03)								
Sample Type: Water			Sampled: 07/22/16 08:35					
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	17 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:27	EPA 200.7	

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

Reported:  
08/09/16 16:17

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>G13223 / 072116C (16G2111-03)</b>								
<b>Sample Type: Water</b>								
<b>Sampled: 07/22/16 08:35</b>								
<b>Metals by EPA 200 Series Methods</b>								
Aluminum	0.69 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:27	EPA 200.7	
Boron	0.18 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:27	EPA 200.7	
Calcium	17 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:27	EPA 200.7	
Iron	1.6 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 18:27	EPA 200.7	
Magnesium	6.4 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:27	EPA 200.7	
Manganese	0.060 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:27	EPA 200.7	
Sodium	62 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:27	EPA 200.7	
Zinc	0.23 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:27	EPA 200.7	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
Ammonia as NH3	53 mg/L	0.50	1	AH63376	08/08/16 08:11	08/09/16 17:00	SM4500NH3C	
Bicarbonate	280 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Biochemical Oxygen Demand	120 mg/L	5.0	1	AG63969	07/22/16 18:00	07/27/16 12:30	SM5210B	
pH	7.51 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	860 umhos/cm	20	1	AG63944	07/26/16 16:00	07/26/16 17:00	SM2510B	
Total Dissolved Solids	380 mg/L	10	1	AG64010	07/28/16 12:00	08/03/16 12:08	SM2540C	
Total Suspended Solids	230 mg/L	1.0	1	AG63995	07/28/16 08:09	07/29/16 13:49	SM2540D	
Volatile Suspended Solids	210 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	AH63132	08/01/16 09:30	08/01/16 12:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	230 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Alkalinity as CaCO3	230 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Kjeldahl Nitrogen	57 mg/L	1.0	1	AG64039	08/04/16 06:49	08/05/16 10:35	SM4500-Norg B	
Total Nitrogen	57 mg/L	1.0	1	AH63264	08/03/16 15:38	08/05/16 11:55	SM4500-N	
Hardness, Total	69 mg/L	5	1	AG64063	07/29/16 12:11	08/02/16 18:27	SM2340B	
Phosphorus, total	6.4 mg/L	0.80	2	AH63124	08/01/16 07:45	08/01/16 15:02	SM4500-P E	

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

Reported:  
08/09/16 16:17

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 072116C (16G2111-03)		Sample Type: Water			Sampled: 07/22/16 08:35			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNa	3.54 NA		1	AG64063	07/29/16 12:11	08/08/16 05:15	SAR	
Anions by EPA Method 300.0								
Chloride	84 mg/L	5.0	10	AG63895	07/26/16 15:31	07/26/16 15:31	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63895	07/26/16 15:48	07/26/16 15:48	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63895	07/26/16 15:48	07/26/16 15:48	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63985	07/27/16 13:43	07/27/16 13:43	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63985	07/27/16 13:43	07/27/16 13:43	EPA 300.0	T-5
Sulfate as SO4	32 mg/L	0.50	1	AG63895	07/26/16 15:48	07/26/16 15:48	EPA 300.0	



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Reported:  
08/09/16 16:17

### 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
<b>Batch AG64063 - Metals Digest</b>									
<b>Blank (AG64063-BLK1)</b>				Prepared: 07/29/16 Analyzed: 08/02/16					
Potassium	ND	1.0	mg/L						
<b>LCS (AG64063-BS1)</b>				Prepared: 07/29/16 Analyzed: 08/02/16					
Potassium	7.50	1.0	mg/L	8.00		93.8	85-115		
<b>Duplicate (AG64063-DUP1)</b>				<b>Source: 16G2024-02</b>		Prepared: 07/29/16 Analyzed: 08/02/16			
Potassium	13.1	1.0	mg/L		13.1		0.197	20	
<b>Matrix Spike (AG64063-MS1)</b>				<b>Source: 16G2024-02</b>		Prepared: 07/29/16 Analyzed: 08/02/16			
Potassium	21.2	1.0	mg/L	8.00	13.1	102	70-130		
<b>Matrix Spike (AG64063-MS2)</b>				<b>Source: 16G2143-01</b>		Prepared: 07/29/16 Analyzed: 08/02/16			
Potassium	9.43	1.0	mg/L	8.00	1.93	93.8	70-130		
<b>Matrix Spike Dup (AG64063-MSD1)</b>				<b>Source: 16G2024-02</b>		Prepared: 07/29/16 Analyzed: 08/02/16			
Potassium	20.8	1.0	mg/L	8.00	13.1	96.7	70-130	1.94	20





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Menlo Park, CA 94025

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

Reported:  
08/09/16 16:17

### 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
<b>Batch AG64063 - Metals Digest</b>										
<b>Blank (AG64063-BLK1)</b>				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							
<b>LCS (AG64063-BS1)</b>				Prepared: 07/29/16 Analyzed: 08/02/16						
Aluminum	1.87	0.050	mg/L	2.00		93.6	85-115			
Boron	0.361	0.050	mg/L	0.400		90.3	85-115			
Calcium	7.34	1.0	mg/L	8.00		91.8	85-115			
Iron	1.92	0.10	mg/L	2.00		95.9	85-115			
Magnesium	7.19	1.0	mg/L	8.00		89.8	85-115			
Manganese	0.190	0.020	mg/L	0.200		95.1	85-115			
Sodium	7.66	1.0	mg/L	8.00		95.7	85-115			
Zinc	0.185	0.020	mg/L	0.200		92.7	85-115			
<b>Duplicate (AG64063-DUP1)</b>				<b>Source: 16G2024-02</b>		Prepared: 07/29/16 Analyzed: 08/02/16				
Aluminum	ND	0.050	mg/L		ND				20	
Boron	ND	0.050	mg/L		ND			6.77	20	
Calcium	36.7	1.0	mg/L		36.3			0.892	20	
Iron	ND	0.10	mg/L		ND			3.64	20	
Magnesium	9.27	1.0	mg/L		9.09			1.93	20	
Manganese	ND	0.020	mg/L		ND			2.91	20	
Sodium	41.0	1.0	mg/L		40.7			0.781	20	
Zinc	0.0391	0.020	mg/L		0.0388			0.572	20	



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### 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
<b>Batch AG64063 - Metals Digest</b>										
<b>Matrix Spike (AG64063-MS1)</b>		<b>Source: 16G2024-02</b>		Prepared: 07/29/16 Analyzed: 08/02/16						
Aluminum	1.91	0.050	mg/L	2.00	ND	93.2	70-130			
Boron	0.400	0.050	mg/L	0.400	ND	91.5	70-130			
Calcium	44.5	1.0	mg/L	8.00	36.3	102	70-130			
Iron	1.95	0.10	mg/L	2.00	ND	96.2	70-130			
Magnesium	17.5	1.0	mg/L	8.00	9.09	106	70-130			
Manganese	0.203	0.020	mg/L	0.200	ND	96.4	70-130			
Sodium	48.7	1.0	mg/L	8.00	40.7	99.8	70-130			
Zinc	0.235	0.020	mg/L	0.200	0.0388	97.9	70-130			
<b>Matrix Spike (AG64063-MS2)</b>		<b>Source: 16G2143-01</b>		Prepared: 07/29/16 Analyzed: 08/02/16						
Aluminum	12.5	0.050	mg/L	2.00	8.11	217	70-130			QM-4X
Boron	0.477	0.050	mg/L	0.400	0.117	89.9	70-130			
Calcium	94.2	1.0	mg/L	8.00	85.2	113	70-130			
Iron	6.96	0.10	mg/L	2.00	4.58	119	70-130			
Magnesium	46.4	1.0	mg/L	8.00	38.5	98.7	70-130			
Manganese	0.404	0.020	mg/L	0.200	0.222	90.9	70-130			
Sodium	23.2	1.0	mg/L	8.00	15.6	95.1	70-130			
Zinc	0.211	0.020	mg/L	0.200	0.0233	93.6	70-130			
<b>Matrix Spike Dup (AG64063-MSD1)</b>		<b>Source: 16G2024-02</b>		Prepared: 07/29/16 Analyzed: 08/02/16						
Aluminum	1.85	0.050	mg/L	2.00	ND	90.4	70-130	2.94	20	
Boron	0.393	0.050	mg/L	0.400	ND	89.9	70-130	1.58	20	
Calcium	44.4	1.0	mg/L	8.00	36.3	101	70-130	0.232	20	
Iron	1.89	0.10	mg/L	2.00	ND	93.4	70-130	2.90	20	
Magnesium	17.1	1.0	mg/L	8.00	9.09	99.7	70-130	2.68	20	
Manganese	0.197	0.020	mg/L	0.200	ND	93.5	70-130	2.88	20	
Sodium	48.6	1.0	mg/L	8.00	40.7	99.0	70-130	0.130	20	
Zinc	0.228	0.020	mg/L	0.200	0.0388	94.7	70-130	2.72	20	

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

Reported:  
08/09/16 16:17

### 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
<b>Batch AG63920 - General Preparation</b>										
<b>Duplicate (AG63920-DUP1)</b>		<b>Source: 16G2111-01</b>			Prepared & Analyzed: 07/25/16					
pH	7.47	1.68	pH Units		7.40			0.941	20	
<b>Batch AG63933 - General Preparation</b>										
<b>Blank (AG63933-BLK1)</b>		Prepared: 07/26/16 Analyzed: 08/03/16								
Volatile Suspended Solids	ND	1.0	mg/L							
<b>Duplicate (AG63933-DUP1)</b>		<b>Source: 16G1817-01</b>			Prepared: 07/26/16 Analyzed: 08/03/16					
Volatile Suspended Solids	117	1.0	mg/L		155			28.1	30	
<b>Duplicate (AG63933-DUP2)</b>		<b>Source: 16G1817-03</b>			Prepared: 07/26/16 Analyzed: 08/03/16					
Volatile Suspended Solids	331	1.0	mg/L		251			27.4	30	
<b>Batch AG63944 - General Preparation</b>										
<b>Duplicate (AG63944-DUP1)</b>		<b>Source: 16G2218-02</b>			Prepared & Analyzed: 07/26/16					
Specific Conductance (EC)	212	20	umhos/cm		209			1.43	5	
<b>Batch AG63963 - General Preparation</b>										
<b>Duplicate (AG63963-DUP1)</b>		<b>Source: 16G2111-01</b>			Prepared & Analyzed: 07/29/16					
Bicarbonate	262	5.0	mg/L		262			0.00	20	
Carbonate Alkalinity as CaCO <sub>3</sub>	ND	5.0	mg/L		ND				20	
Bicarbonate Alkalinity as CaCO <sub>3</sub>	215	5.0	mg/L		215			0.00	20	
Total Alkalinity as CaCO <sub>3</sub>	215	5.0	mg/L		215			0.00	20	
Hydroxide Alkalinity as CaCO <sub>3</sub>	ND	5.0	mg/L		ND				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 Limits	RPD	RPD Limit	Flag
<b>Batch AG63969 - General Preparation</b>									
<b>Blank (AG63969-BLK1)</b>				Prepared: 07/22/16 Analyzed: 07/27/16					
Biochemical Oxygen Demand	ND	5.0	mg/L						
<b>Blank (AG63969-BLK2)</b>				Prepared: 07/22/16 Analyzed: 07/27/16					
Biochemical Oxygen Demand	ND	5.0	mg/L						
<b>LCS (AG63969-BS1)</b>				Prepared: 07/20/16 Analyzed: 07/25/16					
Biochemical Oxygen Demand	212	5.0	mg/L	200		106 84-115			
<b>Duplicate (AG63969-DUP1)</b>				<b>Source: 16G2149-01</b> Prepared: 07/22/16 Analyzed: 07/27/16					
Biochemical Oxygen Demand	180	5.0	mg/L		203		11.9	30	
<b>Batch AG63995 - General Preparation</b>									
<b>Blank (AG63995-BLK1)</b>				Prepared: 07/26/16 Analyzed: 07/29/16					
Total Suspended Solids	ND	1.0	mg/L						
<b>Duplicate (AG63995-DUP1)</b>				<b>Source: 16G1946-01</b> Prepared: 07/26/16 Analyzed: 07/29/16					
Total Suspended Solids	88.2	1.0	mg/L		116		27.3	30	
<b>Duplicate (AG63995-DUP2)</b>				<b>Source: 16G1952-02</b> Prepared: 07/26/16 Analyzed: 07/29/16					
Total Suspended Solids	492	1.0	mg/L		406		19.1	30	
<b>Batch AG64010 - General Preparation</b>									
<b>Blank (AG64010-BLK1)</b>				Prepared: 07/28/16 Analyzed: 08/02/16					
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	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AG64010 - General Preparation</b>										
<b>Duplicate (AG64010-DUP1)</b>		<b>Source: 16G2536-01</b>		Prepared: 07/28/16 Analyzed: 08/02/16						
Total Dissolved Solids	348	10	mg/L		315			10.1	15	
<b>Duplicate (AG64010-DUP2)</b>		<b>Source: 16G2267-01</b>		Prepared: 07/28/16 Analyzed: 08/02/16						
Total Dissolved Solids	147	10	mg/L		170			14.5	15	
<b>Batch AG64039 - General Prep</b>										
<b>LCS (AG64039-BS1)</b>		Prepared: 07/29/16 Analyzed: 08/04/16								
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
<b>LCS Dup (AG64039-BSD1)</b>		Prepared: 07/29/16 Analyzed: 08/04/16								
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120	0.00	20	
<b>Matrix Spike (AG64039-MS1)</b>		<b>Source: 16G1826-01</b>		Prepared: 08/02/16 Analyzed: 08/04/16						
Total Kjeldahl Nitrogen	93.2	1.0	mg/L	22.6	68.6	108	75-125			
<b>Matrix Spike Dup (AG64039-MSD1)</b>		<b>Source: 16G1826-01</b>		Prepared: 08/02/16 Analyzed: 08/04/16						
Total Kjeldahl Nitrogen	93.2	1.0	mg/L	22.6	68.6	108	75-125	0.00	20	
<b>Batch AG64063 - Metals Digest</b>										
<b>Blank (AG64063-BLK1)</b>		Prepared: 07/29/16 Analyzed: 08/02/16								
Hardness, Total	ND	5	mg/L							
<b>Duplicate (AG64063-DUP1)</b>		<b>Source: 16G2024-02</b>		Prepared: 07/29/16 Analyzed: 08/02/16						
Hardness, Total	130	5	mg/L		128			1.20	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
<b>Batch AH63124 - General Prep</b>										
<b>Blank (AH63124-BLK1)</b>				Prepared & Analyzed: 08/01/16						
Phosphorus, total	ND	0.040	mg/L							
<b>LCS (AH63124-BS1)</b>				Prepared & Analyzed: 08/01/16						
Phosphorus, total	0.196	0.040	mg/L	0.200		98.0	85-115			
<b>Duplicate (AH63124-DUP1)</b>				<b>Source: 16G2493-01</b>		Prepared & Analyzed: 08/01/16				
Phosphorus, total	ND	0.040	mg/L		ND			0.00	20	
<b>Matrix Spike (AH63124-MS1)</b>				<b>Source: 16G2493-01</b>		Prepared & Analyzed: 08/01/16				
Phosphorus, total	0.188	0.040	mg/L	0.200	ND	83.8	70-130			
<b>Matrix Spike Dup (AH63124-MSD1)</b>				<b>Source: 16G2493-01</b>		Prepared & Analyzed: 08/01/16				
Phosphorus, total	0.189	0.040	mg/L	0.200	ND	84.5	70-130	0.700	20	
<b>Batch AH63132 - General Preparation</b>										
<b>Blank (AH63132-BLK1)</b>				Prepared & Analyzed: 08/01/16						
Silica	ND	1.0	mg/L							
<b>LCS (AH63132-BS1)</b>				Prepared & Analyzed: 08/01/16						
Silica	9.57	1.0	mg/L	10.0		95.7	85-115			
<b>LCS Dup (AH63132-BSD1)</b>				Prepared & Analyzed: 08/01/16						
Silica	9.61	1.0	mg/L	10.0		96.1	85-115	0.419	20	
<b>Duplicate (AH63132-DUP1)</b>				<b>Source: 16G2160-01</b>		Prepared & Analyzed: 08/01/16				
Silica	14.7	5.0	mg/L		14.9			1.36	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
<b>Batch AH63132 - General Preparation</b>										
<b>Matrix Spike (AH63132-MS1)</b>		<b>Source: 16G2160-01</b>		Prepared & Analyzed: 08/01/16						
Silica	39.2	5.0	mg/L	25.0	14.9	97.2	80-120			
<b>Matrix Spike Dup (AH63132-MSD1)</b>		<b>Source: 16G2160-01</b>		Prepared & Analyzed: 08/01/16						
Silica	39.2	5.0	mg/L	25.0	14.9	97.2	80-120	0.00	20	
<b>Batch AH63376 - General Preparation</b>										
<b>Blank (AH63376-BLK1)</b>		Prepared: 08/08/16 Analyzed: 08/09/16								
Ammonia as NH3	ND	0.50	mg/L							
<b>LCS (AH63376-BS1)</b>		Prepared: 08/08/16 Analyzed: 08/09/16								
Ammonia as NH3	5.75	0.50	mg/L	6.10		94.2	90-110			
<b>LCS Dup (AH63376-BSD1)</b>		Prepared: 08/08/16 Analyzed: 08/09/16								
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110	3.64	10	
<b>Matrix Spike (AH63376-MS1)</b>		<b>Source: 16G2350-01</b>		Prepared: 08/08/16 Analyzed: 08/09/16						
Ammonia as NH3	9.58	0.50	mg/L	6.10	4.47	83.8	85-115			QM-05
<b>Matrix Spike Dup (AH63376-MSD1)</b>		<b>Source: 16G2350-01</b>		Prepared: 08/08/16 Analyzed: 08/09/16						
Ammonia as NH3	9.69	0.50	mg/L	6.10	4.47	85.5	85-115	1.11	20	

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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
<b>Batch AG63895 - General Preparation</b>										
<b>Blank (AG63895-BLK1)</b>				Prepared & Analyzed: 07/26/16						
Chloride	ND	0.50	mg/L							
Sulfate as SO <sub>4</sub>	ND	0.50	mg/L							
Nitrate as NO <sub>3</sub>	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							
<b>LCS (AG63895-BS1)</b>				Prepared & Analyzed: 07/26/16						
Nitrate as NO <sub>3</sub>	26	1.0	mg/L	24.7		106	90-110			
Chloride	11.7	0.50	mg/L	11.1		105	90-110			
Sulfate as SO <sub>4</sub>	23.2	0.50	mg/L	22.2		104	90-110			
Nitrate as N	5.89	0.20	mg/L	5.56		106	90-110			
<b>Duplicate (AG63895-DUP1)</b>				<b>Source: 16G2229-01</b>		Prepared & Analyzed: 07/27/16				
Nitrate as N	ND	0.20	mg/L		ND				20	
Sulfate as SO <sub>4</sub>	6.74	0.50	mg/L		6.72			0.372	20	
Nitrate as NO <sub>3</sub>	ND	1.0	mg/L		ND				20	
Chloride	12.2	0.50	mg/L		12.2			0.139	20	
<b>Matrix Spike (AG63895-MS1)</b>				<b>Source: 16G2229-01</b>		Prepared & Analyzed: 07/27/16				
Nitrate as NO <sub>3</sub>	26	5.0	mg/L	24.7	ND	105	80-120			
Chloride	24.0	2.5	mg/L	11.1	12.2	106	80-120			
Sulfate as SO <sub>4</sub>	29.5	2.5	mg/L	22.2	6.72	103	80-120			
Nitrate as N	5.82	1.0	mg/L	5.56	ND	105	80-120			
<b>Matrix Spike (AG63895-MS2)</b>				<b>Source: 16G2244-01</b>		Prepared & Analyzed: 07/27/16				
Sulfate as SO <sub>4</sub>	48.6	2.5	mg/L	22.2	25.4	104	80-120			
Nitrate as NO <sub>3</sub>	43	5.0	mg/L	24.7	18	105	80-120			
Chloride	49.9	2.5	mg/L	11.1	39.2	96.6	80-120			
Nitrate as N	9.81	1.0	mg/L	5.56	3.96	105	80-120			

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Project Manager: John Simonetti  
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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
<b>Batch AG63895 - General Preparation</b>										
<b>Matrix Spike Dup (AG63895-MSD1)</b>		<b>Source: 16G2229-01</b>		Prepared & Analyzed: 07/27/16						
Nitrate as NO3	26	5.0	mg/L	24.7	ND	104	80-120	0.909	20	
Sulfate as SO4	29.5	2.5	mg/L	22.2	6.72	102	80-120	0.151	20	
Nitrate as N	5.77	1.0	mg/L	5.56	ND	104	80-120	0.909	20	
Chloride	23.9	2.5	mg/L	11.1	12.2	105	80-120	0.556	20	
<b>Batch AG63985 - General Preparation</b>										
<b>Blank (AG63985-BLK1)</b>		Prepared & Analyzed: 07/27/16								
Nitrite as N	ND	0.20	mg/L							
Nitrite as NO2	ND	1.0	mg/L							
<b>LCS (AG63985-BS1)</b>		Prepared & Analyzed: 07/27/16								
Nitrite as NO2	17.9	1.0	mg/L	18.2		98.0	90-110			
Nitrite as N	5.43	0.20	mg/L	5.56		97.8	90-110			
<b>Duplicate (AG63985-DUP1)</b>		<b>Source: 16G2229-01</b>		Prepared & Analyzed: 07/27/16						
Nitrite as N	ND	0.20	mg/L		ND				20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
<b>Matrix Spike (AG63985-MS1)</b>		<b>Source: 16G2229-01</b>		Prepared & Analyzed: 07/27/16						
Nitrite as N	4.26	2.0	mg/L	5.56	ND	76.6	80-120			QM-05
Nitrite as NO2	14.0	10	mg/L	18.2	ND	76.7	80-120			QM-05
<b>Matrix Spike (AG63985-MS2)</b>		<b>Source: 16G2375-01</b>		Prepared: 07/27/16 Analyzed: 08/01/16						
Nitrite as N	5.58	1.0	mg/L	5.56	ND	100	80-120			
Nitrite as NO2	18.3	5.0	mg/L	18.2	ND	101	80-120			



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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:  
08/09/16 16:17

### 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 AG63985 - General Preparation

##### Matrix Spike Dup (AG63985-MSD1)

Source: 16G2229-01

Prepared & Analyzed: 07/27/16

Nitrite as NO <sub>2</sub>	13.9	10	mg/L	18.2	ND	76.1	80-120	0.786	20	QM-05
Nitrite as N	4.22	2.0	mg/L	5.56	ND	76.0	80-120	0.786	20	QM-05



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#### Notes and Definitions

- 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-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]