



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

10 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16G2160

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:  
08/10/16 09:21

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13104 / 072216A	16G2160-01	Water	07/23/16 08:40	07/25/16 21:00
G13220 / 072216B	16G2160-02	Water	07/23/16 09:00	07/25/16 21:00
G13223 / 072216C	16G2160-03	Water	07/23/16 08:15	07/25/16 21:00



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Menlo Park, CA 94025

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

Reported:  
08/10/16 09:21

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>G13104 / 072216A (16G2160-01)</b>								
<b>Sample Type: Water</b>								
<b>Sampled: 07/23/16 08:40</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 18:31	EPA 200.7	
<b>Metals by EPA 200 Series Methods</b>								
Aluminum	0.63 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:31	EPA 200.7	
Boron	0.17 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:31	EPA 200.7	
Calcium	17 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:31	EPA 200.7	
Iron	1.7 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 18:31	EPA 200.7	
Magnesium	4.3 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:31	EPA 200.7	
Manganese	0.077 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:31	EPA 200.7	
Sodium	41 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:31	EPA 200.7	
Zinc	0.26 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:31	EPA 200.7	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
Ammonia as NH <sub>3</sub>	51 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	320 mg/L	5.0	1	AH63166	07/27/16 08:00	08/01/16 11:30	SM5210B	T-16
pH	7.52 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	670 umhos/cm	20	1	AG63944	07/26/16 16:00	07/26/16 17:00	SM2510B	
Total Dissolved Solids	300 mg/L	10	1	AG64010	07/28/16 12:00	08/02/16 17:02	SM2540C	
Total Suspended Solids	360 mg/L	1.0	1	AG63995	07/28/16 08:09	07/29/16 13:49	SM2540D	
Volatile Suspended Solids	330 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-SiO <sub>2</sub> C	
Bicarbonate Alkalinity as CaCO <sub>3</sub>	210 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>	210 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Kjeldahl Nitrogen	55 mg/L	1.0	1	AH63327	08/08/16 07:06	08/09/16 09:44	SM4500-Norg B	
Total Nitrogen	55 mg/L	1.0	1	AH63264	08/03/16 15:38	08/09/16 10:02	SM4500-N	
Hardness, Total	60 mg/L	5	1	AG64063	07/29/16 12:11	08/02/16 18:31	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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Menlo Park, CA 94025

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

Reported:  
08/10/16 09:21

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072216A (16G2160-01)								
Sample Type: Water			Sampled: 07/23/16 08:40					
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.49 NA		1	AG64063	07/29/16 12:11	08/08/16 06:00	SAR	
Anions by EPA Method 300.0								
Chloride	44 mg/L	5.0	10	AG63986	07/27/16 18:27	07/27/16 18:27	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63986	07/27/16 18:27	07/27/16 18:27	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63986	07/27/16 18:27	07/27/16 18:27	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63986	07/27/16 18:43	07/27/16 18:43	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63986	07/27/16 18:43	07/27/16 18:43	EPA 300.0	T-5
Sulfate as SO4	27 mg/L	0.50	1	AG63986	07/27/16 18:43	07/27/16 18:43	EPA 300.0	
G13220 / 072216B (16G2160-02)								
Sample Type: Water			Sampled: 07/23/16 09:00					
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	13 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:36	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	1.5 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:36	EPA 200.7	
Boron	0.20 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:36	EPA 200.7	
Calcium	24 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:36	EPA 200.7	
Iron	3.7 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 18:36	EPA 200.7	
Magnesium	10 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:36	EPA 200.7	
Manganese	0.070 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:36	EPA 200.7	
Sodium	40 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:36	EPA 200.7	
Zinc	0.35 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:36	EPA 200.7	



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Reported:  
08/10/16 09:21

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13220 / 072216B (16G2160-02)								
Sample Type: Water			Sampled: 07/23/16 09:00					
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	290 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Biochemical Oxygen Demand	410 mg/L	5.0	1	AH63166	07/27/16 08:00	08/01/16 11:30	SM5210B	T-16
pH	7.20 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	780 umhos/cm	20	1	AG63944	07/26/16 16:00	07/26/16 17:00	SM2510B	
Total Dissolved Solids	310 mg/L	10	1	AG64010	07/28/16 12:00	08/02/16 17:02	SM2540C	
Total Suspended Solids	760 mg/L	1.0	1	AG63995	07/28/16 08:09	07/29/16 13:49	SM2540D	
Volatile Suspended Solids	710 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	240 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	240 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Kjeldahl Nitrogen	71 mg/L	1.0	1	AH63327	08/09/16 07:06	08/09/16 09:44	SM4500-Norg B	
Total Nitrogen	71 mg/L	1.0	1	AH63264	08/03/16 15:38	08/09/16 10:02	SM4500-N	
Hardness, Total	102 mg/L	5	1	AG64063	07/29/16 12:11	08/02/16 18:36	SM2340B	
Phosphorus, total	9.9 mg/L	2.0	5	AH63124	08/01/16 07:45	08/01/16 15:02	SM4500-P E	
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	1.95 NA		1	AG64063	07/29/16 12:11	08/08/16 06:00	SAR	
Anions by EPA Method 300.0								
Chloride	45 mg/L	5.0	10	AG63986	07/27/16 18:59	07/27/16 18:59	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63986	07/27/16 18:59	07/27/16 18:59	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63986	07/27/16 18:59	07/27/16 18:59	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63986	07/27/16 19:15	07/27/16 19:15	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63986	07/27/16 19:15	07/27/16 19:15	EPA 300.0	T-5
Sulfate as SO4	44 mg/L	5.0	10	AG63986	07/27/16 18:59	07/27/16 18:59	EPA 300.0	
G13223 / 072216C (16G2160-03)								
Sample Type: Water			Sampled: 07/23/16 08:15					
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	17 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:50	EPA 200.7	

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Project: WQ Monitoring  
Project Number: [none]

Reported:  
08/10/16 09:21

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>G13223 / 072216C (16G2160-03)</b>								
<b>Sample Type: Water</b>								
<b>Sampled: 07/23/16 08:15</b>								
<b>Metals by EPA 200 Series Methods</b>								
Aluminum	0.70 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:50	EPA 200.7	
Boron	0.21 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:50	EPA 200.7	
Calcium	17 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:50	EPA 200.7	
Iron	1.7 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 18:50	EPA 200.7	
Magnesium	5.8 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:50	EPA 200.7	
Manganese	0.055 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:50	EPA 200.7	
Sodium	56 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:50	EPA 200.7	
Zinc	0.24 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:50	EPA 200.7	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
Ammonia as NH3	51 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	290 mg/L	5.0	1	AH63166	07/27/16 08:00	08/01/16 11:30	SM5210B	T-16
pH	7.26 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	820 umhos/cm	20	1	AG63944	07/26/16 16:00	07/26/16 17:00	SM2510B	
Total Dissolved Solids	420 mg/L	10	1	AG64010	07/28/16 12:00	08/02/16 17:02	SM2540C	
Total Suspended Solids	260 mg/L	1.0	1	AG63995	07/28/16 08:09	07/29/16 13:49	SM2540D	
Volatile Suspended Solids	240 mg/L	1.0	1	AG63933	07/26/16 15:40	08/03/16 16:54	EPA 160.4	
Silica	14 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	55 mg/L	1.0	1	AH63327	08/09/16 07:06	08/09/16 10:37	SM4500-Norg B	
Total Nitrogen	55 mg/L	1.0	1	AH63264	08/03/16 15:38	08/09/16 15:04	SM4500-N	
Hardness, Total	67 mg/L	5	1	AG64063	07/29/16 12:11	08/02/16 18:50	SM2340B	
Phosphorus, total	6.3 mg/L	0.80	2	AH63124	08/01/16 07:45	08/01/16 15:02	SM4500-P E	



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Project Number: [none]

Reported:  
08/10/16 09:21

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 072216C (16G2160-03)		Sample Type: Water			Sampled: 07/23/16 08:15			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNa	3.28 NA		1	AG64063	07/29/16 12:11	08/08/16 06:00	SAR	
Anions by EPA Method 300.0								
Chloride	69 mg/L	10	20	AG63986	07/27/16 20:04	07/27/16 20:04	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63986	07/27/16 20:04	07/27/16 20:04	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63986	07/27/16 20:04	07/27/16 20:04	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63986	07/27/16 20:20	07/27/16 20:20	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63986	07/27/16 20:20	07/27/16 20:20	EPA 300.0	T-5
Sulfate as SO4	33 mg/L	0.50	1	AG63986	07/27/16 20:20	07/27/16 20:20	EPA 300.0	



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08/10/16 09:21

### 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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Reported:  
08/10/16 09:21

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

Reported:  
08/10/16 09:21

### 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:  
08/10/16 09:21

### 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	
Bicarbonate Alkalinity as CaCO <sub>3</sub>	215	5.0	mg/L		215			0.00	20	
Carbonate Alkalinity as CaCO <sub>3</sub>	ND	5.0	mg/L		ND				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	%REC Limits	RPD	RPD Limit	Flag
<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>				Source: 16G1946-01 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>				Source: 16G1952-02 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							
<b>Duplicate (AG64010-DUP1)</b>				Source: 16G2536-01 Prepared: 07/28/16 Analyzed: 08/02/16						
Total Dissolved Solids	348	10	mg/L		315			10.1	15	
<b>Duplicate (AG64010-DUP2)</b>				Source: 16G2267-01 Prepared: 07/28/16 Analyzed: 08/02/16						
Total Dissolved Solids	147	10	mg/L		170			14.5	15	
<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>				Source: 16G2024-02 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 AH63166 - General Preparation</b>										
<b>Blank (AH63166-BLK1)</b>		Prepared: 07/27/16 Analyzed: 08/01/16								
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>Blank (AH63166-BLK2)</b>		Prepared: 07/27/16 Analyzed: 08/01/16								
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>LCS (AH63166-BS1)</b>		Prepared: 07/27/16 Analyzed: 08/01/16								
Biochemical Oxygen Demand	218	5.0	mg/L	200		109	84-115			
<b>Duplicate (AH63166-DUP1)</b>		<b>Source: 16G2281-02</b>		Prepared: 07/27/16 Analyzed: 08/01/16						
Biochemical Oxygen Demand	ND	5.0	mg/L		ND			5.56	30	
<b>Batch AH63327 - General Prep</b>										
<b>LCS (AH63327-BS1)</b>		Prepared: 08/08/16 Analyzed: 08/09/16								
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120			
<b>LCS Dup (AH63327-BSD1)</b>		Prepared: 08/08/16 Analyzed: 08/09/16								
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120	0.00	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 AH63327 - General Prep</b>										
<b>Matrix Spike (AH63327-MS1)</b>		<b>Source: 16G2260-01</b>		Prepared: 08/08/16 Analyzed: 08/09/16						
Total Kjeldahl Nitrogen	64.4	1.0	mg/L	22.6	40.6	105	75-125			
<b>Matrix Spike Dup (AH63327-MSD1)</b>		<b>Source: 16G2260-01</b>		Prepared: 08/08/16 Analyzed: 08/09/16						
Total Kjeldahl Nitrogen	64.4	1.0	mg/L	22.6	40.6	105	75-125	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 AG63986 - General Preparation</b>										
<b>Blank (AG63986-BLK1)</b>				Prepared & Analyzed: 07/27/16						
Chloride	ND	0.50	mg/L							
Nitrate as NO3	ND	1.0	mg/L							
Nitrite as NO2	ND	1.0	mg/L							
Nitrite as N	ND	0.20	mg/L							
Sulfate as SO4	ND	0.50	mg/L							
Nitrate as N	ND	0.20	mg/L							
<b>LCS (AG63986-BS1)</b>				Prepared & Analyzed: 07/27/16						
Sulfate as SO4	22.2	0.50	mg/L	22.2		100	90-110			
Nitrite as NO2	18.6	1.0	mg/L	18.2		102	90-110			
Nitrate as N	5.72	0.20	mg/L	5.56		103	90-110			
Nitrite as N	5.66	0.20	mg/L	5.56		102	90-110			
Chloride	11.5	0.50	mg/L	11.1		103	90-110			
Nitrate as NO3	25	1.0	mg/L	24.7		103	90-110			
<b>Duplicate (AG63986-DUP1)</b>				Source: 16G2275-01 Prepared & Analyzed: 07/27/16						
Nitrate as NO3	2.6	1.0	mg/L		2.7			4.17	20	
Nitrite as N	ND	0.20	mg/L		ND				20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Chloride	ND	0.50	mg/L		ND			1.32	20	
Sulfate as SO4	ND	0.50	mg/L		ND				20	
Nitrate as N	0.594	0.20	mg/L		0.620			4.17	20	
<b>Matrix Spike (AG63986-MS1)</b>				Source: 16G2275-01 Prepared & Analyzed: 07/27/16						
Nitrite as N	5.76	0.20	mg/L	5.56	ND	104	80-120			
Nitrate as NO3	29	1.0	mg/L	24.7	2.7	105	80-120			
Sulfate as SO4	22.6	0.50	mg/L	22.2	ND	102	80-120			
Chloride	12.0	0.50	mg/L	11.1	ND	105	80-120			
Nitrite as NO2	18.9	1.0	mg/L	18.2	ND	104	80-120			
Nitrate as N	6.45	0.20	mg/L	5.56	0.620	105	80-120			

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Project Number: [none]

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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 AG63986 - General Preparation</b>										
<b>Matrix Spike (AG63986-MS2)</b>	<b>Source: 16G2279-01</b>			Prepared & Analyzed: 07/28/16						
Nitrate as N	5.78	0.20	mg/L	5.56	ND	103	80-120			
Chloride	13.3	0.50	mg/L	11.1	1.68	104	80-120			
Nitrite as NO2	12.2	1.0	mg/L	18.2	ND	67.1	80-120			QM-05
Nitrate as NO3	26	1.0	mg/L	24.7	ND	103	80-120			
Nitrite as N	3.72	0.20	mg/L	5.56	ND	67.0	80-120			QM-05
Sulfate as SO4	22.9	0.50	mg/L	22.2	ND	102	80-120			
<b>Matrix Spike Dup (AG63986-MSD1)</b>	<b>Source: 16G2275-01</b>			Prepared & Analyzed: 07/27/16						
Nitrate as N	6.46	0.20	mg/L	5.56	0.620	105	80-120	0.132	20	
Nitrite as NO2	19.0	1.0	mg/L	18.2	ND	104	80-120	0.308	20	
Sulfate as SO4	22.5	0.50	mg/L	22.2	ND	101	80-120	0.335	20	
Chloride	12.0	0.50	mg/L	11.1	ND	105	80-120	0.0463	20	
Nitrite as N	5.77	0.20	mg/L	5.56	ND	104	80-120	0.308	20	
Nitrate as NO3	29	1.0	mg/L	24.7	2.7	105	80-120	0.132	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:  
08/10/16 09:21

#### 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-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

Company/Name: West Bay Sanitary District		Project ID:		Signature below authorizes work under terms stated on reverse side.																																	
		WQ Monitoring		Analysis Request																		Sample Notes		TAT													
Mailing Address: 500 Laurel Street Menlo Park, CA 94025		Project No:																						24 hr <input type="radio"/>													
Project Contact & Email (Hardcopy or PDF to): John Simonetti jsimonetti@westbaysanitary.org		PO#																						48 hr <input type="radio"/>													
Phone/Fax:		Site Contact:																						Lab Approval Required <input type="radio"/>													
Field Sampler - Print Name & Signature		Sample Collection		Container					Preservative					Matrix					DU BOD		DU pH		200.7 - B, Ca, Mg, Na, Al, Fe, Mn, Zn		Ammonia, Phosphorus		Total Nitrogen	Sulfate, Chloride, EC, NO <sub>2</sub> , NO <sub>3</sub>	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS	VSS	Hardness Calc	Required	
Sample Identification		Date	Time	40ml Vial	Poly	Glass	Sleeve	Other	HCL	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	Other	Norie	Water	Soil	Other																			1 wk <input type="radio"/>		
																																			2 wk (standard) <input type="radio"/>		
Ted Beke		7/23	0840	5						1	1		3	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	X					
072216A		7/23	0900	5						1	1		3	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	X					
072216B		7/23	0845	5						1	1		3	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	X					
072216C		7/23	0845	5						1	1		3	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	X					