



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

12 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16G2450

Enclosed are the results of analyses for samples received by the laboratory on 07/27/16 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:
08/12/16 08:40

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13104 / 072616A	16G2450-01	Water	07/27/16 08:55	07/27/16 21:00
G13220 / 072616B	16G2450-02	Water	07/27/16 09:10	07/27/16 21:00
G13223 / 072616C	16G2450-03	Water	07/27/16 08:20	07/27/16 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:
08/12/16 08:40

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072616A (16G2450-01)								
Sample Type: Water								
Sampled: 07/27/16 08:55								
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	15 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:14	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.61 mg/L	0.050	1	AH63297	08/04/16 11:47	08/10/16 16:14	EPA 200.7	
Boron	0.26 mg/L	0.050	1	AH63297	08/04/16 11:47	08/10/16 16:14	EPA 200.7	
Calcium	24 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:14	EPA 200.7	
Iron	1.4 mg/L	0.10	1	AH63297	08/04/16 11:47	08/10/16 16:14	EPA 200.7	
Magnesium	4.2 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:14	EPA 200.7	
Manganese	0.067 mg/L	0.020	1	AH63297	08/04/16 11:47	08/10/16 16:14	EPA 200.7	
Sodium	74 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:14	EPA 200.7	
Zinc	0.23 mg/L	0.020	1	AH63297	08/04/16 11:47	08/10/16 16:14	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	49 mg/L	0.50	1	AH63429	08/09/16 08:10	08/09/16 17:00	SM4500NH3C	
Bicarbonate	250 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Biochemical Oxygen Demand	320 mg/L	5.0	1	AH63209	07/28/16 14:00	08/02/16 13:00	SM5210B	
pH	7.11 pH Units	1.68	1	AG64019	07/27/16 18:40	07/27/16 18:40	SM4500-H+ B	T-14
Specific Conductance (EC)	890 umhos/cm	20	1	AG64047	07/28/16 16:00	07/28/16 17:00	SM2510B	
Total Dissolved Solids	400 mg/L	10	1	AH63187	08/02/16 08:45	08/04/16 10:02	SM2540C	
Total Suspended Solids	400 mg/L	1.0	1	AH63129	08/01/16 08:57	08/04/16 17:29	SM2540D	
Volatile Suspended Solids	370 mg/L	1.0	1	AH63169	08/01/16 15:18	08/05/16 17:16	EPA 160.4	
Silica	14 mg/L	5.0	5	AH63234	08/03/16 10:00	08/03/16 12:45	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	200 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Total Alkalinity as CaCO3	200 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	56 mg/L	1.0	1	AH63428	08/10/16 06:29	08/10/16 12:35	SM4500-Norg B	
Total Nitrogen	56 mg/L	1.0	1	AH63266	08/03/16 15:40	08/10/16 14:19	SM4500-N	
Hardness, Total	76 mg/L	5	1	AH63297	08/04/16 11:47	08/10/16 16:14	SM2340B	
Phosphorus, total	7.2 mg/L	2.0	5	AH63270	08/04/16 08:20	08/04/16 12:33	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:
08/12/16 08:40

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072616A (16G2450-01)								
			Sample Type: Water		Sampled: 07/27/16 08:55			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	4.17 NA		1	AH63297	08/04/16 11:47	08/11/16 13:59	SAR	
Anions by EPA Method 300.0								
Chloride	110 mg/L	10	20	AG64017	07/28/16 17:17	07/28/16 17:17	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG64017	07/28/16 17:35	07/28/16 17:35	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG64017	07/28/16 17:35	07/28/16 17:35	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG64017	07/28/16 17:35	07/28/16 17:35	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG64017	07/28/16 17:35	07/28/16 17:35	EPA 300.0	
Sulfate as SO4	21 mg/L	0.50	1	AG64017	07/28/16 17:35	07/28/16 17:35	EPA 300.0	
G13220 / 072616B (16G2450-02)								
			Sample Type: Water		Sampled: 07/27/16 09:10			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	16 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:19	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	1.4 mg/L	0.050	1	AH63297	08/04/16 11:47	08/10/16 16:19	EPA 200.7	
Boron	0.16 mg/L	0.050	1	AH63297	08/04/16 11:47	08/10/16 16:19	EPA 200.7	
Calcium	28 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:19	EPA 200.7	
Iron	3.9 mg/L	0.10	1	AH63297	08/04/16 11:47	08/10/16 16:19	EPA 200.7	
Magnesium	11 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:19	EPA 200.7	
Manganese	0.075 mg/L	0.020	1	AH63297	08/04/16 11:47	08/10/16 16:19	EPA 200.7	
Sodium	54 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:19	EPA 200.7	
Zinc	0.43 mg/L	0.020	1	AH63297	08/04/16 11:47	08/10/16 16:19	EPA 200.7	



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

Reported:
08/12/16 08:40

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13220 / 072616B (16G2450-02)								
Sample Type: Water			Sampled: 07/27/16 09:10					
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	55 mg/L	0.50	1	AH63429	08/09/16 08:10	08/09/16 17:00	SM4500NH3C	
Bicarbonate	270 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Biochemical Oxygen Demand	450 mg/L	5.0	1	AH63209	07/28/16 14:00	08/02/16 13:00	SM5210B	
pH	7.15 pH Units	1.68	1	AG64019	07/27/16 18:40	07/27/16 18:40	SM4500-H+ B	T-14
Specific Conductance (EC)	800 umhos/cm	20	1	AG64047	07/28/16 16:00	07/28/16 17:00	SM2510B	
Total Dissolved Solids	340 mg/L	10	1	AH63187	08/02/16 08:45	08/04/16 10:02	SM2540C	
Total Suspended Solids	460 mg/L	1.0	1	AH63129	08/01/16 08:57	08/04/16 17:29	SM2540D	
Volatile Suspended Solids	420 mg/L	1.0	1	AH63169	08/01/16 15:18	08/05/16 17:16	EPA 160.4	
Silica	16 mg/L	5.0	5	AH63234	08/03/16 10:00	08/03/16 12:45	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	220 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Total Alkalinity as CaCO3	220 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	72 mg/L	1.0	1	AH63428	08/10/16 06:29	08/11/16 11:56	SM4500-Norg B	
Total Nitrogen	72 mg/L	1.0	1	AH63266	08/03/16 15:40	08/11/16 13:36	SM4500-N	
Hardness, Total	113 mg/L	5	1	AH63297	08/04/16 11:47	08/10/16 16:19	SM2340B	
Phosphorus, total	7.9 mg/L	2.0	5	AH63270	08/04/16 08:20	08/04/16 12:33	SM4500-P E	
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNa	2.49 NA		1	AH63297	08/04/16 11:47	08/11/16 13:59	SAR	
Anions by EPA Method 300.0								
Chloride	57 mg/L	10	20	AG64017	07/28/16 17:51	07/28/16 17:51	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG64017	07/28/16 18:07	07/28/16 18:07	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG64017	07/28/16 18:07	07/28/16 18:07	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG64017	07/28/16 18:07	07/28/16 18:07	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG64017	07/28/16 18:07	07/28/16 18:07	EPA 300.0	
Sulfate as SO4	45 mg/L	10	20	AG64017	07/28/16 17:51	07/28/16 17:51	EPA 300.0	
G13223 / 072616C (16G2450-03)								
Sample Type: Water			Sampled: 07/27/16 08:20					
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	19 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:23	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:
08/12/16 08:40

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 072616C (16G2450-03)								
Sample Type: Water								
Sampled: 07/27/16 08:20								
Metals by EPA 200 Series Methods								
Aluminum	0.68 mg/L	0.050	1	AH63297	08/04/16 11:47	08/10/16 16:23	EPA 200.7	
Boron	0.24 mg/L	0.050	1	AH63297	08/04/16 11:47	08/10/16 16:23	EPA 200.7	
Calcium	20 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:23	EPA 200.7	
Iron	1.8 mg/L	0.10	1	AH63297	08/04/16 11:47	08/10/16 16:23	EPA 200.7	
Magnesium	6.4 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:23	EPA 200.7	
Manganese	0.057 mg/L	0.020	1	AH63297	08/04/16 11:47	08/10/16 16:23	EPA 200.7	
Sodium	62 mg/L	1.0	1	AH63297	08/04/16 11:47	08/10/16 16:23	EPA 200.7	
Zinc	0.23 mg/L	0.020	1	AH63297	08/04/16 11:47	08/10/16 16:23	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	58 mg/L	0.50	1	AH63429	08/09/16 08:10	08/09/16 17:00	SM4500NH3C	
Bicarbonate	270 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Biochemical Oxygen Demand	280 mg/L	5.0	1	AH63209	07/28/16 14:00	08/02/16 13:00	SM5210B	
pH	7.09 pH Units	1.68	1	AG64019	07/27/16 18:40	07/27/16 18:40	SM4500-H+ B	T-14
Specific Conductance (EC)	850 umhos/cm	20	1	AG64047	07/28/16 16:00	07/28/16 17:00	SM2510B	
Total Dissolved Solids	400 mg/L	10	1	AH63187	08/02/16 08:45	08/04/16 16:49	SM2540C	
Total Suspended Solids	260 mg/L	1.0	1	AH63129	08/01/16 08:57	08/04/16 17:29	SM2540D	
Volatile Suspended Solids	240 mg/L	1.0	1	AH63169	08/01/16 15:18	08/05/16 17:16	EPA 160.4	
Silica	16 mg/L	5.0	5	AH63234	08/03/16 10:00	08/03/16 12:45	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	220 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Total Alkalinity as CaCO3	220 mg/L	5.0	1	AG64054	08/02/16 08:00	08/02/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	65 mg/L	1.0	1	AH63428	08/10/16 06:29	08/11/16 11:56	SM4500-Norg B	
Total Nitrogen	65 mg/L	1.0	1	AH63266	08/03/16 15:40	08/11/16 13:36	SM4500-N	
Hardness, Total	75 mg/L	5	1	AH63297	08/04/16 11:47	08/10/16 16:23	SM2340B	
Phosphorus, total	6.8 mg/L	2.0	5	AH63270	08/04/16 08:20	08/04/16 12:33	SM4500-P E	

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

Reported:
08/12/16 08:40

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 072616C (16G2450-03)								
			Sample Type: Water		Sampled: 07/27/16 08:20			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNa	3.45 NA		1	AH63297	08/04/16 11:47	08/11/16 13:59	SAR	
Anions by EPA Method 300.0								
Chloride	75 mg/L	10	20	AG64017	07/28/16 18:56	07/28/16 18:56	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG64017	07/28/16 19:12	07/28/16 19:12	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AG64017	07/28/16 19:12	07/28/16 19:12	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AG64017	07/28/16 19:12	07/28/16 19:12	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AG64017	07/28/16 19:12	07/28/16 19:12	EPA 300.0	
Sulfate as SO4	35 mg/L	0.50	1	AG64017	07/28/16 19:12	07/28/16 19:12	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 AH63297 - Metals Digest									
Blank (AH63297-BLK1)				Prepared: 08/04/16 Analyzed: 08/08/16					
Potassium	ND	1.0	mg/L						
LCS (AH63297-BS1)				Prepared: 08/04/16 Analyzed: 08/08/16					
Potassium	7.57	1.0	mg/L	8.00		94.6	85-115		
Duplicate (AH63297-DUP1)				Source: 16G2414-01		Prepared: 08/04/16 Analyzed: 08/09/16			
Potassium	1.18	1.0	mg/L		1.20		1.36	20	
Matrix Spike (AH63297-MS1)				Source: 16G2414-01		Prepared: 08/04/16 Analyzed: 08/08/16			
Potassium	8.53	1.0	mg/L	8.00	1.20	91.7	70-130		
Matrix Spike (AH63297-MS2)				Source: 16H0407-01		Prepared: 08/04/16 Analyzed: 08/08/16			
Potassium	16.7	1.0	mg/L	8.00	10.1	83.4	70-130		
Matrix Spike Dup (AH63297-MSD1)				Source: 16G2414-01		Prepared: 08/04/16 Analyzed: 08/08/16			
Potassium	8.60	1.0	mg/L	8.00	1.20	92.6	70-130	0.829	20



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

Reported:
08/12/16 08:40

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 AH63297 - Metals Digest									
Blank (AH63297-BLK1)				Prepared: 08/04/16 Analyzed: 08/08/16					
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 (AH63297-BS1)				Prepared: 08/04/16 Analyzed: 08/08/16					
Aluminum	1.91	0.050	mg/L	2.00		95.5	85-115		
Boron	0.373	0.050	mg/L	0.400		93.2	85-115		
Calcium	7.45	1.0	mg/L	8.00		93.1	85-115		
Iron	1.94	0.10	mg/L	2.00		96.8	85-115		
Magnesium	7.43	1.0	mg/L	8.00		92.9	85-115		
Manganese	0.189	0.020	mg/L	0.200		94.6	85-115		
Sodium	7.94	1.0	mg/L	8.00		99.2	85-115		
Zinc	0.190	0.020	mg/L	0.200		95.1	85-115		
Duplicate (AH63297-DUP1)				Source: 16G2414-01		Prepared: 08/04/16 Analyzed: 08/09/16			
Aluminum	0.147	0.050	mg/L		ND			20	
Boron	0.126	0.050	mg/L		0.131		3.94	20	
Calcium	29.6	1.0	mg/L		30.9		4.26	20	
Iron	ND	0.10	mg/L		ND		91.3	20	
Magnesium	6.93	1.0	mg/L		7.23		4.23	20	
Manganese	ND	0.020	mg/L		ND		64.8	20	
Sodium	35.0	1.0	mg/L		36.8		4.85	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:
08/12/16 08:40

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 AH63297 - Metals Digest										
Matrix Spike (AH63297-MS1)		Source: 16G2414-01		Prepared: 08/04/16 Analyzed: 08/08/16						
Aluminum	1.87	0.050	mg/L	2.00	ND	93.6	70-130			
Boron	0.477	0.050	mg/L	0.400	0.131	86.5	70-130			
Calcium	39.6	1.0	mg/L	8.00	30.9	109	70-130			
Iron	1.86	0.10	mg/L	2.00	ND	90.3	70-130			
Magnesium	14.4	1.0	mg/L	8.00	7.23	89.7	70-130			
Manganese	0.181	0.020	mg/L	0.200	ND	90.4	70-130			
Sodium	45.5	1.0	mg/L	8.00	36.8	109	70-130			
Zinc	0.189	0.020	mg/L	0.200	ND	94.7	70-130			
Matrix Spike (AH63297-MS2)		Source: 16H0407-01		Prepared: 08/04/16 Analyzed: 08/08/16						
Aluminum	1.94	0.050	mg/L	2.00	0.155	89.1	70-130			
Boron	0.645	0.050	mg/L	0.400	0.320	81.1	70-130			
Calcium	39.7	1.0	mg/L	8.00	32.9	85.2	70-130			
Iron	1.93	0.10	mg/L	2.00	0.189	87.0	70-130			
Magnesium	19.1	1.0	mg/L	8.00	12.5	81.8	70-130			
Manganese	0.182	0.020	mg/L	0.200	ND	87.1	70-130			
Sodium	95.9	1.0	mg/L	8.00	87.6	103	70-130			
Zinc	0.176	0.020	mg/L	0.200	ND	88.1	70-130			
Matrix Spike Dup (AH63297-MSD1)		Source: 16G2414-01		Prepared: 08/04/16 Analyzed: 08/08/16						
Aluminum	1.88	0.050	mg/L	2.00	ND	94.2	70-130	0.646	20	
Boron	0.486	0.050	mg/L	0.400	0.131	88.7	70-130	1.84	20	
Calcium	38.8	1.0	mg/L	8.00	30.9	98.8	70-130	2.01	20	
Iron	1.87	0.10	mg/L	2.00	ND	90.9	70-130	0.673	20	
Magnesium	14.4	1.0	mg/L	8.00	7.23	89.7	70-130	0.00549	20	
Manganese	0.181	0.020	mg/L	0.200	ND	90.4	70-130	0.0483	20	
Sodium	44.6	1.0	mg/L	8.00	36.8	97.7	70-130	2.03	20	
Zinc	0.189	0.020	mg/L	0.200	ND	94.3	70-130	0.383	20	

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500 Laurel Street
Menlo Park, CA 94025

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

Reported:
08/12/16 08:40

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 AG64019 - General Preparation										
Duplicate (AG64019-DUP1)	Source: 16G2454-01		Prepared & Analyzed: 07/27/16							
pH	8.26	1.68	pH Units		8.40			1.68	20	
Batch AG64047 - General Preparation										
Duplicate (AG64047-DUP1)	Source: 16G2474-02		Prepared & Analyzed: 07/28/16							
Specific Conductance (EC)	45600	20	umhos/cm		45000			1.32	5	
Batch AG64054 - General Preparation										
Duplicate (AG64054-DUP1)	Source: 16G2520-01		Prepared & Analyzed: 08/02/16							
Bicarbonate	396	5.0	mg/L		390			1.55	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	
Total Alkalinity as CaCO ₃	325	5.0	mg/L		320			1.55	20	
Bicarbonate Alkalinity as CaCO ₃	325	5.0	mg/L		320			1.55	20	
Batch AH63129 - General Preparation										
Blank (AH63129-BLK1)	Prepared: 08/01/16 Analyzed: 08/04/16									
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AH63129-DUP1)	Source: 16G2234-02		Prepared: 08/01/16 Analyzed: 08/04/16							
Total Suspended Solids	287	1.0	mg/L		284			1.25	30	
Duplicate (AH63129-DUP2)	Source: 16G2450-03		Prepared: 08/01/16 Analyzed: 08/04/16							
Total Suspended Solids	279	1.0	mg/L		262			6.04	30	



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Reported:
08/12/16 08:40

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 AH63169 - General Preparation										
Blank (AH63169-BLK1)				Prepared: 08/01/16 Analyzed: 08/05/16						
Volatile Suspended Solids	ND	1.0	mg/L							
Duplicate (AH63169-DUP1)				Source: 16H0027-01 Prepared: 08/01/16 Analyzed: 08/05/16						
Volatile Suspended Solids	444	1.0	mg/L		429			3.51	30	
Duplicate (AH63169-DUP2)				Source: 16H0027-02 Prepared: 08/01/16 Analyzed: 08/05/16						
Volatile Suspended Solids	282	1.0	mg/L		309			9.17	30	
Batch AH63187 - General Preparation										
Blank (AH63187-BLK1)				Prepared: 08/01/16 Analyzed: 08/04/16						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AH63187-DUP1)				Source: 16G2404-01 Prepared: 08/01/16 Analyzed: 08/04/16						
Total Dissolved Solids	129	10	mg/L		135			4.55	15	
Duplicate (AH63187-DUP2)				Source: 16H0110-02 Prepared: 08/01/16 Analyzed: 08/04/16						
Total Dissolved Solids	52.0	10	mg/L		54.0			3.77	15	
Batch AH63209 - General Preparation										
Blank (AH63209-BLK1)				Prepared: 07/28/16 Analyzed: 08/02/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AH63209-BLK2)				Prepared: 07/28/16 Analyzed: 08/02/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							



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

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH63209 - General Preparation										
LCS (AH63209-BS1)				Prepared: 07/27/16 Analyzed: 08/01/16						
Biochemical Oxygen Demand	218	5.0	mg/L	200		109	84-115			
Duplicate (AH63209-DUP1)				Source: 16G2292-02		Prepared: 07/28/16 Analyzed: 08/02/16				
Biochemical Oxygen Demand	ND	5.0	mg/L		42.0				30	
Batch AH63234 - General Preparation										
Blank (AH63234-BLK1)				Prepared & Analyzed: 08/03/16						
Silica	ND	1.0	mg/L							
LCS (AH63234-BS1)				Prepared & Analyzed: 08/03/16						
Silica	9.74	1.0	mg/L	10.0		97.4	85-115			
LCS Dup (AH63234-BSD1)				Prepared & Analyzed: 08/03/16						
Silica	9.74	1.0	mg/L	10.0		97.4	85-115	0.00	20	
Duplicate (AH63234-DUP1)				Source: 16G2526-02		Prepared & Analyzed: 08/03/16				
Silica	15.3	5.0	mg/L		15.3			0.00	20	
Matrix Spike (AH63234-MS1)				Source: 16G2526-02		Prepared & Analyzed: 08/03/16				
Silica	38.7	5.0	mg/L	25.0	15.3	93.5	80-120			
Matrix Spike Dup (AH63234-MSD1)				Source: 16G2526-02		Prepared & Analyzed: 08/03/16				
Silica	39.3	5.0	mg/L	25.0	15.3	95.9	80-120	1.54	20	
Batch AH63270 - General Prep										
Blank (AH63270-BLK1)				Prepared & Analyzed: 08/04/16						
Phosphorus, total	ND	0.040	mg/L							



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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH63270 - General Prep										
LCS (AH63270-BS1)				Prepared & Analyzed: 08/04/16						
Phosphorus, total	0.193	0.040	mg/L	0.200		96.3	85-115			
Duplicate (AH63270-DUP1)				Source: 16G2288-01 Prepared & Analyzed: 08/04/16						
Phosphorus, total	5.65	2.0	mg/L		5.65			0.00	20	
Matrix Spike (AH63270-MS1)				Source: 16G2288-01 Prepared & Analyzed: 08/04/16						
Phosphorus, total	6.96	2.0	mg/L	2.00	5.65	65.3	70-130			QM-4X
Matrix Spike Dup (AH63270-MSD1)				Source: 16G2288-01 Prepared & Analyzed: 08/04/16						
Phosphorus, total	6.89	2.0	mg/L	2.00	5.65	62.0	70-130	0.939	20	QM-4X
Batch AH63297 - Metals Digest										
Blank (AH63297-BLK1)				Prepared: 08/04/16 Analyzed: 08/08/16						
Hardness, Total	ND	5	mg/L							
Duplicate (AH63297-DUP1)				Source: 16G2414-01 Prepared: 08/04/16 Analyzed: 08/09/16						
Hardness, Total	102	5	mg/L		107			4.25	20	
Batch AH63428 - General Prep										
LCS (AH63428-BS1)				Prepared & Analyzed: 08/09/16						
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120			
LCS Dup (AH63428-BSD1)				Prepared & 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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Project: WQ Monitoring
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Reported:
08/12/16 08:40

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 AH63428 - General Prep										
Matrix Spike (AH63428-MS1)		Source: 16G2430-01		Prepared: 08/09/16 Analyzed: 08/10/16						
Total Kjeldahl Nitrogen	69.4	1.0	mg/L	22.6	42.7	118	75-125			
Matrix Spike Dup (AH63428-MSD1)		Source: 16G2430-01		Prepared: 08/09/16 Analyzed: 08/10/16						
Total Kjeldahl Nitrogen	70.0	1.0	mg/L	22.6	42.7	121	75-125	1.00	20	
Batch AH63429 - General Preparation										
Blank (AH63429-BLK1)		Prepared & Analyzed: 08/09/16								
Ammonia as NH3	ND	0.50	mg/L							
LCS (AH63429-BS1)		Prepared & Analyzed: 08/09/16								
Ammonia as NH3	5.75	0.50	mg/L	6.10		94.2	90-110			
LCS Dup (AH63429-BSD1)		Prepared & Analyzed: 08/09/16								
Ammonia as NH3	6.07	0.50	mg/L	6.10		99.5	90-110	5.40	10	
Matrix Spike (AH63429-MS1)		Source: 16G2480-03		Prepared & Analyzed: 08/10/16						
Ammonia as NH3	5.75	0.50	mg/L	6.10	ND	94.2	85-115			
Matrix Spike Dup (AH63429-MSD1)		Source: 16G2480-03		Prepared & Analyzed: 08/10/16						
Ammonia as NH3	5.75	0.50	mg/L	6.10	ND	94.2	85-115	0.00	20	



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Reported:
08/12/16 08:40

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 AG64017 - General Preparation										
Blank (AG64017-BLK1)				Prepared & Analyzed: 07/28/16						
Nitrite as NO ₂	ND	1.0	mg/L							
Nitrite as N	ND	0.20	mg/L							
Nitrate as NO ₃	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							
Sulfate as SO ₄	ND	0.50	mg/L							
Chloride	ND	0.50	mg/L							
LCS (AG64017-BS1)				Prepared & Analyzed: 07/28/16						
Nitrate as N	5.65	0.20	mg/L	5.56		102	90-110			
Nitrate as NO ₃	25	1.0	mg/L	24.7		101	90-110			
Nitrite as NO ₂	18.7	1.0	mg/L	18.2		102	90-110			
Nitrite as N	5.67	0.20	mg/L	5.56		102	90-110			
Sulfate as SO ₄	22.1	0.50	mg/L	22.2		99.3	90-110			
Chloride	11.4	0.50	mg/L	11.1		103	90-110			
Duplicate (AG64017-DUP1)				Source: 16G2429-01 Prepared & Analyzed: 07/28/16						
Chloride	4.22	0.50	mg/L		4.31			2.23	20	
Nitrite as N	ND	0.20	mg/L		ND				20	
Nitrate as N	ND	0.20	mg/L		ND			9.48	20	
Sulfate as SO ₄	1.11	0.50	mg/L		1.13			1.87	20	
Nitrate as NO ₃	ND	1.0	mg/L		ND			9.48	20	
Nitrite as NO ₂	ND	1.0	mg/L		ND				20	
Matrix Spike (AG64017-MS1)				Source: 16G2429-01 Prepared & Analyzed: 07/28/16						
Nitrate as N	6.06	0.20	mg/L	5.56	ND	108	80-120			
Nitrate as NO ₃	27	1.0	mg/L	24.7	ND	108	80-120			
Sulfate as SO ₄	24.1	0.50	mg/L	22.2	1.13	103	80-120			
Chloride	16.1	0.50	mg/L	11.1	4.31	106	80-120			
Nitrite as NO ₂	18.1	1.0	mg/L	18.2	ND	99.2	80-120			
Nitrite as N	5.49	0.20	mg/L	5.56	ND	98.9	80-120			

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Project Number: [none]

Reported:
08/12/16 08:40

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 AG64017 - General Preparation

Matrix Spike (AG64017-MS2)

Source: 16G2404-01

Prepared & Analyzed: 07/28/16

Nitrate as N	5.89	0.20	mg/L	5.56	ND	103	80-120			
Nitrite as NO2	19.2	1.0	mg/L	18.2	ND	104	80-120			
Sulfate as SO4	35.6	0.50	mg/L	22.2	12.7	103	80-120			
Nitrate as NO3	26	1.0	mg/L	24.7	ND	103	80-120			
Nitrite as N	5.82	0.20	mg/L	5.56	ND	104	80-120			
Chloride	15.9	0.50	mg/L	11.1	4.50	102	80-120			

Matrix Spike Dup (AG64017-MSD1)

Source: 16G2429-01

Prepared & Analyzed: 07/28/16

Sulfate as SO4	23.9	0.50	mg/L	22.2	1.13	102	80-120	0.912	20	
Nitrate as N	6.08	0.20	mg/L	5.56	ND	108	80-120	0.306	20	
Chloride	16.0	0.50	mg/L	11.1	4.31	106	80-120	0.111	20	
Nitrite as NO2	17.8	1.0	mg/L	18.2	ND	97.8	80-120	1.39	20	
Nitrite as N	5.42	0.20	mg/L	5.56	ND	97.5	80-120	1.39	20	
Nitrate as NO3	27	1.0	mg/L	24.7	ND	108	80-120	0.306	20	



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08/12/16 08:40

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

Company/Name: West Bay Sanitary District		Project ID: WQ Monitoring										Signature below authorizes work under terms stated on reverse side.										Sample Notes		TAT									
Mailing Address: 500 Laurel Street Menlo Park, CA 94025 Project Contact & Email (Hardcopy or PDF to): John Simonetti jsimonetti@westbaysanitary.org Phone/Fax:		Project No:		PO#		Site Contact:		Sample Collection		Date		Time		Field Sampler - Print Name & Signature		Container		Preservative		Matrix		Analysis Request		Hardness Calc		Required							
Sample Identification		Date		Time		40ml Vial		Poly		Glass		Sieve		Other		HCL		HNO3		H2SO4		Other		None		Water		Soil		Other			
G13104	7/27/08	5	1	1	3	X																											
G13220	7/27/08	5	1	1	3	X																											
G13223	7/27/08	5	1	1	3	X																											
G13226	7/27/08	5	1	1	3	X																											
DU BOD		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
DU pH		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2007 - B, Ca, Mg, Na, Al, Fe, Mn, Zn		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Ammonia, Phosphorus		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Total Nitrogen		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Sulfate, Chloride, EC, NO2, NO3		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Alkalinity, Bicarbonate		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
SAR Adjusted Calculation		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Silica		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
TDS		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
VSS		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hardness Calc		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Lab Approval Required for Tests		1 wk		2 wk (standard)																													

Relinquished by:		Received by:		Date		Time		CDPH Write On EDT Report?		Yes		No	
[Signature]		[Signature]		7/27/08		1330							
[Signature]		[Signature]		7/27/08		1720							
[Signature]		[Signature]		7/27/08		1730							
[Signature]		[Signature]		7/27/08		2100							
[Signature]		[Signature]		7/27/08		2100							

Relinquished by:		Received by:		Date		Time		Travel and Site Time:		Mileage:		Misc. Supplies:	
[Signature]		[Signature]		7/27/08		2100							
[Signature]		[Signature]		7/27/08		2100							
[Signature]		[Signature]		7/27/08		2100							
[Signature]		[Signature]		7/27/08		2100							