



alpha

Alpha Analytical Laboratories Inc.

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Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267

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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: 16G2161

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 / 072316A	16G2161-01	Water	07/24/16 08:30	07/25/16 21:00
G13220 / 072316B	16G2161-02	Water	07/24/16 08:50	07/25/16 21:00
G13223 / 072316C	16G2161-03	Water	07/24/16 08:00	07/25/16 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:
08/10/16 09:21

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072316A (16G2161-01)								
Sample Type: Water								
Sampled: 07/24/16 08:30								
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	17 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:55	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.69 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:55	EPA 200.7	
Boron	0.19 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:55	EPA 200.7	
Calcium	17 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:55	EPA 200.7	
Iron	1.8 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 18:55	EPA 200.7	
Magnesium	5.4 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:55	EPA 200.7	
Manganese	0.067 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:55	EPA 200.7	
Sodium	47 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:55	EPA 200.7	
Zinc	0.24 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:55	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH ₃	66 mg/L	0.50	1	AH63376	08/08/16 08:11	08/09/16 17:00	SM4500NH ₃ C	
Bicarbonate	290 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	7.40 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	780 umhos/cm	20	1	AG63945	07/26/16 16:00	08/01/16 14:49	SM2510B	
Total Dissolved Solids	380 mg/L	10	1	AG64010	07/28/16 12:00	08/02/16 17:02	SM2540C	
Total Suspended Solids	190 mg/L	1.0	1	AG64044	07/29/16 08:38	08/01/16 15:02	SM2540D	
Volatile Suspended Solids	180 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-SiO ₂ C	
Bicarbonate Alkalinity as CaCO ₃	240 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Carbonate Alkalinity as CaCO ₃	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Hydroxide Alkalinity as CaCO ₃	ND mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Alkalinity as CaCO ₃	240 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 15:02	SM4500-N	
Hardness, Total	64 mg/L	5	1	AG64063	07/29/16 12:11	08/02/16 18:55	SM2340B	
Phosphorus, total	9.6 mg/L	2.0	5	AH63175	08/02/16 07:45	08/02/16 12:22	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:
08/10/16 09:21

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 072316A (16G2161-01)								
Sample Type: Water			Sampled: 07/24/16 08:30					
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.85 NA		1	AG64063	07/29/16 12:11	08/08/16 06:03	SAR	
Anions by EPA Method 300.0								
Chloride	58 mg/L	5.0	10	AG63895	07/26/16 17:58	07/26/16 17:58	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63895	07/26/16 18:15	07/26/16 18:15	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63895	07/26/16 18:15	07/26/16 18:15	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63985	07/27/16 13:59	07/27/16 13:59	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63985	07/27/16 13:59	07/27/16 13:59	EPA 300.0	T-5
Sulfate as SO4	29 mg/L	0.50	1	AG63895	07/26/16 18:15	07/26/16 18:15	EPA 300.0	
G13220 / 072316B (16G2161-02)								
Sample Type: Water			Sampled: 07/24/16 08:50					
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	16 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:59	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.49 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:59	EPA 200.7	
Boron	0.20 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 18:59	EPA 200.7	
Calcium	16 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:59	EPA 200.7	
Iron	1.3 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 18:59	EPA 200.7	
Magnesium	4.6 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:59	EPA 200.7	
Manganese	0.072 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:59	EPA 200.7	
Sodium	41 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 18:59	EPA 200.7	
Zinc	0.18 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 18:59	EPA 200.7	

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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
G13220 / 072316B (16G2161-02)									
Conventional Chemistry Parameters by APHA/EPA Methods				Sample Type: Water		Sampled: 07/24/16 08:50			
Ammonia as NH3	60 mg/L	0.50	1	AH63376	08/08/16 08:11	08/09/16 17:00	SM4500NH3C		
Bicarbonate	260 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B		
Biochemical Oxygen Demand	280 mg/L	5.0	1	AH63166	07/27/16 08:00	08/01/16 11:30	SM5210B		T-16
pH	7.33 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B		T-14
Specific Conductance (EC)	710 umhos/cm	20	1	AG63945	07/26/16 16:00	08/01/16 14:49	SM2510B		
Total Dissolved Solids	360 mg/L	10	1	AG64010	07/28/16 12:00	08/02/16 17:02	SM2540C		
Total Suspended Solids	200 mg/L	1.0	1	AG63995	07/28/16 08:09	07/29/16 13:49	SM2540D		
Volatile Suspended Solids	190 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	220 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	220 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B		
Total Kjeldahl Nitrogen	64 mg/L	1.0	1	AH63327	08/09/16 07:06	08/09/16 10:37	SM4500-Norg B		
Total Nitrogen	64 mg/L	1.0	1	AH63264	08/03/16 15:38	08/09/16 15:02	SM4500-N		
Hardness, Total	58 mg/L	5	1	AG64063	07/29/16 12:11	08/02/16 18:59	SM2340B		
Phosphorus, total	7.4 mg/L	2.0	5	AH63175	08/02/16 07:45	08/02/16 12:22	SM4500-P E		
Miscellaneous Physical/Conventional Chemistry Parameters									
Sodium Adsorption Ratio-Adj RNa	2.55 NA		1	AG64063	07/29/16 12:11	08/08/16 06:03	SAR		
Anions by EPA Method 300.0									
Chloride	46 mg/L	5.0	10	AG63895	07/26/16 18:31	07/26/16 18:31	EPA 300.0		
Nitrate as N	ND mg/L	0.20	1	AG63895	07/26/16 18:47	07/26/16 18:47	EPA 300.0		T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63895	07/26/16 18:47	07/26/16 18:47	EPA 300.0		T-5
Nitrite as N	ND mg/L	0.20	1	AG63985	07/27/16 14:15	07/27/16 14:15	EPA 300.0		T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63985	07/27/16 14:15	07/27/16 14:15	EPA 300.0		T-5
Sulfate as SO4	26 mg/L	0.50	1	AG63895	07/26/16 18:47	07/26/16 18:47	EPA 300.0		
G13223 / 072316C (16G2161-03)									
Metals (Drinking Water) by EPA 200 Series Methods				Sample Type: Water		Sampled: 07/24/16 08:00			
Potassium	15 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 19:04	EPA 200.7		

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500 Laurel Street
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
G13223 / 072316C (16G2161-03)								
Sample Type: Water								
Sampled: 07/24/16 08:00								
Metals by EPA 200 Series Methods								
Aluminum	0.44 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 19:04	EPA 200.7	
Boron	0.15 mg/L	0.050	1	AG64063	07/29/16 12:11	08/02/16 19:04	EPA 200.7	
Calcium	17 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 19:04	EPA 200.7	
Iron	1.3 mg/L	0.10	1	AG64063	07/29/16 12:11	08/02/16 19:04	EPA 200.7	
Magnesium	9.5 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 19:04	EPA 200.7	
Manganese	0.040 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 19:04	EPA 200.7	
Sodium	50 mg/L	1.0	1	AG64063	07/29/16 12:11	08/02/16 19:04	EPA 200.7	
Zinc	0.17 mg/L	0.020	1	AG64063	07/29/16 12:11	08/02/16 19:04	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	58 mg/L	0.50	1	AH63376	08/08/16 08:11	08/09/16 17:00	SM4500NH3C	
Bicarbonate	250 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Biochemical Oxygen Demand	220 mg/L	5.0	1	AH63166	07/27/16 08:00	08/01/16 11:30	SM5210B	T-16
pH	7.29 pH Units	1.68	1	AG63920	07/25/16 19:00	07/25/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	740 umhos/cm	20	1	AG63945	07/26/16 16:00	08/01/16 14:49	SM2510B	
Total Dissolved Solids	390 mg/L	10	1	AG64010	07/28/16 12:00	08/02/16 17:02	SM2540C	
Total Suspended Solids	220 mg/L	1.0	1	AG63995	07/28/16 08:09	07/29/16 13:49	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	17 mg/L	5.0	5	AH63132	08/01/16 09:30	08/01/16 12:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	200 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	200 mg/L	5.0	1	AG63963	07/29/16 08:00	07/29/16 16:20	SM2320B	
Total Kjeldahl Nitrogen	64 mg/L	1.0	1	AH63327	08/09/16 07:06	08/09/16 10:37	SM4500-Norg B	
Total Nitrogen	64 mg/L	1.0	1	AH63264	08/03/16 15:38	08/09/16 15:02	SM4500-N	
Hardness, Total	81 mg/L	5	1	AG64063	07/29/16 12:11	08/02/16 19:04	SM2340B	
Phosphorus, total	7.3 mg/L	2.0	5	AH63175	08/02/16 07:45	08/02/16 12:22	SM4500-P E	

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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
G13223 / 072316C (16G2161-03)		Sample Type: Water			Sampled: 07/24/16 08:00			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNa	2.57 NA		1	AG64063	07/29/16 12:11	08/08/16 06:03	SAR	
Anions by EPA Method 300.0								
Chloride	51 mg/L	2.5	5	AH63437	08/09/16 11:20	08/09/16 11:20	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63985	07/27/16 14:32	07/27/16 14:32	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63985	07/27/16 14:32	07/27/16 14:32	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63985	07/27/16 14:32	07/27/16 14:32	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63985	07/27/16 14:32	07/27/16 14:32	EPA 300.0	T-5
Sulfate as SO4	47 mg/L	0.50	1	AG63895	07/27/16 14:32	07/27/16 14:32	EPA 300.0	



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Reported:
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
Batch AG64063 - Metals Digest									
Blank (AG64063-BLK1)				Prepared: 07/29/16 Analyzed: 08/02/16					
Potassium	ND	1.0	mg/L						
LCS (AG64063-BS1)				Prepared: 07/29/16 Analyzed: 08/02/16					
Potassium	7.50	1.0	mg/L	8.00		93.8	85-115		
Duplicate (AG64063-DUP1)				Source: 16G2024-02		Prepared: 07/29/16 Analyzed: 08/02/16			
Potassium	13.1	1.0	mg/L		13.1		0.197	20	
Matrix Spike (AG64063-MS1)				Source: 16G2024-02		Prepared: 07/29/16 Analyzed: 08/02/16			
Potassium	21.2	1.0	mg/L	8.00	13.1	102	70-130		
Matrix Spike (AG64063-MS2)				Source: 16G2143-01		Prepared: 07/29/16 Analyzed: 08/02/16			
Potassium	9.43	1.0	mg/L	8.00	1.93	93.8	70-130		
Matrix Spike Dup (AG64063-MSD1)				Source: 16G2024-02		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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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
Batch AG64063 - Metals Digest										
Blank (AG64063-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 (AG64063-BS1)				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			
Duplicate (AG64063-DUP1)				Source: 16G2024-02		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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Menlo Park, CA 94025

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
Batch AG64063 - Metals Digest										
Matrix Spike (AG64063-MS1)		Source: 16G2024-02		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			
Matrix Spike (AG64063-MS2)		Source: 16G2143-01		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			
Matrix Spike Dup (AG64063-MSD1)		Source: 16G2024-02		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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Menlo Park, CA 94025

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
Batch AG63920 - General Preparation										
Duplicate (AG63920-DUP1)		Source: 16G2111-01			Prepared & Analyzed: 07/25/16					
pH	7.47	1.68	pH Units		7.40			0.941	20	
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 AG63945 - General Preparation										
Duplicate (AG63945-DUP1)		Source: 16G2245-01			Prepared & Analyzed: 07/26/16					
Specific Conductance (EC)	213	20	umhos/cm		213			0.00	5	
Batch AG63963 - General Preparation										
Duplicate (AG63963-DUP1)		Source: 16G2111-01			Prepared & Analyzed: 07/29/16					
Bicarbonate	262	5.0	mg/L		262			0.00	20	
Bicarbonate Alkalinity as CaCO ₃	215	5.0	mg/L		215			0.00	20	
Total Alkalinity as CaCO ₃	215	5.0	mg/L		215			0.00	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	



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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 AG63995 - General Preparation										
Blank (AG63995-BLK1)				Prepared: 07/26/16 Analyzed: 07/29/16						
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AG63995-DUP1)				Source: 16G1946-01 Prepared: 07/26/16 Analyzed: 07/29/16						
Total Suspended Solids	88.2	1.0	mg/L		116			27.3	30	
Duplicate (AG63995-DUP2)				Source: 16G1952-02 Prepared: 07/26/16 Analyzed: 07/29/16						
Total Suspended Solids	492	1.0	mg/L		406			19.1	30	
Batch AG64010 - General Preparation										
Blank (AG64010-BLK1)				Prepared: 07/28/16 Analyzed: 08/02/16						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AG64010-DUP1)				Source: 16G2536-01 Prepared: 07/28/16 Analyzed: 08/02/16						
Total Dissolved Solids	348	10	mg/L		315			10.1	15	
Duplicate (AG64010-DUP2)				Source: 16G2267-01 Prepared: 07/28/16 Analyzed: 08/02/16						
Total Dissolved Solids	147	10	mg/L		170			14.5	15	
Batch AG64044 - General Preparation										
Blank (AG64044-BLK1)				Prepared: 07/29/16 Analyzed: 08/01/16						
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AG64044-DUP1)				Source: 16G2163-01 Prepared: 07/29/16 Analyzed: 08/01/16						
Total Suspended Solids	217	1.0	mg/L		185			16.2	30	



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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 AG64044 - General Preparation										
Duplicate (AG64044-DUP2)	Source: 16G2163-03		Prepared: 07/29/16 Analyzed: 08/01/16							
Total Suspended Solids	327	1.0	mg/L		319			2.65	30	
Batch AG64063 - Metals Digest										
Blank (AG64063-BLK1)			Prepared: 07/29/16 Analyzed: 08/02/16							
Hardness, Total	ND	5	mg/L							
Duplicate (AG64063-DUP1)	Source: 16G2024-02		Prepared: 07/29/16 Analyzed: 08/02/16							
Hardness, Total	130	5	mg/L		128			1.20	20	
Batch AH63132 - General Preparation										
Blank (AH63132-BLK1)			Prepared & Analyzed: 08/01/16							
Silica	ND	1.0	mg/L							
LCS (AH63132-BS1)			Prepared & Analyzed: 08/01/16							
Silica	9.57	1.0	mg/L	10.0		95.7	85-115			
LCS Dup (AH63132-BSD1)			Prepared & Analyzed: 08/01/16							
Silica	9.61	1.0	mg/L	10.0		96.1	85-115	0.419	20	
Duplicate (AH63132-DUP1)	Source: 16G2160-01		Prepared & Analyzed: 08/01/16							
Silica	14.7	5.0	mg/L		14.9			1.36	20	
Matrix Spike (AH63132-MS1)	Source: 16G2160-01		Prepared & Analyzed: 08/01/16							
Silica	39.2	5.0	mg/L	25.0	14.9	97.2	80-120			



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Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AH63132 - General Preparation										
Matrix Spike Dup (AH63132-MSD1)		Source: 16G2160-01			Prepared & Analyzed: 08/01/16					
Silica	39.2	5.0	mg/L	25.0	14.9	97.2	80-120	0.00	20	
Batch AH63166 - General Preparation										
Blank (AH63166-BLK1)		Prepared: 07/27/16 Analyzed: 08/01/16								
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AH63166-BLK2)		Prepared: 07/27/16 Analyzed: 08/01/16								
Biochemical Oxygen Demand	ND	5.0	mg/L							
LCS (AH63166-BS1)		Prepared: 07/27/16 Analyzed: 08/01/16								
Biochemical Oxygen Demand	218	5.0	mg/L	200		109	84-115			
Duplicate (AH63166-DUP1)		Source: 16G2281-02			Prepared: 07/27/16 Analyzed: 08/01/16					
Biochemical Oxygen Demand	ND	5.0	mg/L		ND			5.56	30	
Batch AH63175 - General Prep										
Blank (AH63175-BLK1)		Prepared & Analyzed: 08/02/16								
Phosphorus, total	ND	0.040	mg/L							
LCS (AH63175-BS1)		Prepared & Analyzed: 08/02/16								
Phosphorus, total	0.196	0.040	mg/L	0.200		98.1	85-115			
Duplicate (AH63175-DUP1)		Source: 16G2112-01			Prepared & Analyzed: 08/02/16					
Phosphorus, total	0.133	0.040	mg/L		0.135			1.97	20	

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Project Number: [none]

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 AH63175 - General Prep										
Matrix Spike (AH63175-MS1)		Source: 16G2112-01		Prepared & Analyzed: 08/02/16						
Phosphorus, total	0.311	0.040	mg/L	0.200	0.135	88.0	70-130			
Matrix Spike Dup (AH63175-MSD1)		Source: 16G2112-01		Prepared & Analyzed: 08/02/16						
Phosphorus, total	0.309	0.040	mg/L	0.200	0.135	86.6	70-130	0.852	20	
Batch AH63327 - General Prep										
LCS (AH63327-BS1)		Prepared: 08/08/16 Analyzed: 08/09/16								
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120			
LCS Dup (AH63327-BSD1)		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	
Matrix Spike (AH63327-MS1)		Source: 16G2260-01		Prepared: 08/08/16 Analyzed: 08/09/16						
Total Kjeldahl Nitrogen	64.4	1.0	mg/L	22.6	40.6	105	75-125			
Matrix Spike Dup (AH63327-MSD1)		Source: 16G2260-01		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	
Batch AH63376 - General Preparation										
Blank (AH63376-BLK1)		Prepared: 08/08/16 Analyzed: 08/09/16								
Ammonia as NH3	ND	0.50	mg/L							
LCS (AH63376-BS1)		Prepared: 08/08/16 Analyzed: 08/09/16								
Ammonia as NH3	5.75	0.50	mg/L	6.10		94.2	90-110			

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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
Batch AH63376 - General Preparation										
LCS Dup (AH63376-BSD1)				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	
Matrix Spike (AH63376-MS1)				Source: 16G2350-01 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
Matrix Spike Dup (AH63376-MSD1)				Source: 16G2350-01 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
Batch AG63895 - General Preparation										
Blank (AG63895-BLK1)				Prepared & Analyzed: 07/26/16						
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 (AG63895-BS1)				Prepared & Analyzed: 07/26/16						
Nitrate as N	5.89	0.20	mg/L	5.56		106	90-110			
Sulfate as SO ₄	23.2	0.50	mg/L	22.2		104	90-110			
Chloride	11.7	0.50	mg/L	11.1		105	90-110			
Nitrate as NO ₃	26	1.0	mg/L	24.7		106	90-110			
Duplicate (AG63895-DUP1)				Source: 16G2229-01		Prepared & Analyzed: 07/27/16				
Chloride	12.2	0.50	mg/L		12.2			0.139	20	
Nitrate as N	ND	0.20	mg/L		ND				20	
Sulfate as SO ₄	6.74	0.50	mg/L		6.72			0.372	20	
Nitrate as NO ₃	ND	1.0	mg/L		ND				20	
Matrix Spike (AG63895-MS1)				Source: 16G2229-01		Prepared & Analyzed: 07/27/16				
Sulfate as SO ₄	29.5	2.5	mg/L	22.2	6.72	103	80-120			
Chloride	24.0	2.5	mg/L	11.1	12.2	106	80-120			
Nitrate as NO ₃	26	5.0	mg/L	24.7	ND	105	80-120			
Nitrate as N	5.82	1.0	mg/L	5.56	ND	105	80-120			
Matrix Spike (AG63895-MS2)				Source: 16G2244-01		Prepared & Analyzed: 07/27/16				
Nitrate as NO ₃	43	5.0	mg/L	24.7	18	105	80-120			
Sulfate as SO ₄	48.6	2.5	mg/L	22.2	25.4	104	80-120			
Nitrate as N	9.81	1.0	mg/L	5.56	3.96	105	80-120			
Chloride	49.9	2.5	mg/L	11.1	39.2	96.6	80-120			

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Reported:
08/10/16 09:21

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 AG63895 - General Preparation

Matrix Spike Dup (AG63895-MSD1)

Source: 16G2229-01

Prepared & Analyzed: 07/27/16

Nitrate as N	5.77	1.0	mg/L	5.56	ND	104	80-120	0.909	20	
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	
Chloride	23.9	2.5	mg/L	11.1	12.2	105	80-120	0.556	20	

Batch AG63985 - General Preparation

Blank (AG63985-BLK1)

Prepared & Analyzed: 07/27/16

Nitrate as NO3	ND	1.0	mg/L							
Nitrite as N	ND	0.20	mg/L							
Nitrite as NO2	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							

LCS (AG63985-BS1)

Prepared & Analyzed: 07/27/16

Nitrate as NO3	26	1.0	mg/L	24.7		106	90-110			
Nitrite as NO2	17.9	1.0	mg/L	18.2		98.0	90-110			
Nitrate as N	5.90	0.20	mg/L	5.56		106	90-110			
Nitrite as N	5.43	0.20	mg/L	5.56		97.8	90-110			

Duplicate (AG63985-DUP1)

Source: 16G2229-01

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	
Nitrate as NO3	ND	1.0	mg/L		ND				20	
Nitrate as N	ND	0.20	mg/L		ND				20	

Matrix Spike (AG63985-MS1)

Source: 16G2229-01

Prepared & Analyzed: 07/27/16

Nitrate as NO3	24	10	mg/L	24.7	ND	95.8	80-120			
Nitrite as NO2	14.0	10	mg/L	18.2	ND	76.7	80-120			QM-05
Nitrate as N	5.33	2.0	mg/L	5.56	ND	96.0	80-120			
Nitrite as N	4.26	2.0	mg/L	5.56	ND	76.6	80-120			QM-05



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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

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 (AG63985-MS2)

Source: 16G2375-01

Prepared & Analyzed: 08/01/16

Nitrate as NO3	52	5.0	mg/L	24.7	27	100	80-120			
Nitrite as N	5.58	1.0	mg/L	5.56	ND	100	80-120			
Nitrate as N	11.8	1.0	mg/L	5.56	6.17	101	80-120			
Nitrite as NO2	18.3	5.0	mg/L	18.2	ND	101	80-120			

Matrix Spike Dup (AG63985-MSD1)

Source: 16G2229-01

Prepared & Analyzed: 07/27/16

Nitrate as N	5.21	2.0	mg/L	5.56	ND	93.8	80-120	2.28	20	
Nitrite as NO2	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
Nitrate as NO3	23	10	mg/L	24.7	ND	93.6	80-120	2.28	20	

Batch AH63437 - General Preparation

LCS (AH63437-BS1)

Prepared & Analyzed: 08/09/16

Chloride	10.7	0.50	mg/L	10.0		107	90-110			
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Duplicate (AH63437-DUP1)

Source: 16H0780-01

Prepared & Analyzed: 08/09/16

Chloride	39.7	2.5	mg/L		41.5			4.28	20	
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Matrix Spike (AH63437-MS1)

Source: 16H0780-01

Prepared & Analyzed: 08/09/16

Chloride	51.2	2.5	mg/L	11.1	41.5	87.4	80-120			
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Matrix Spike Dup (AH63437-MSD1)

Source: 16H0780-01

Prepared & Analyzed: 08/09/16

Chloride	51.1	2.5	mg/L	11.1	41.5	86.6	80-120	0.174	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

Sample IDs should be "072316"
Per Robbie. 7-26-16

Lab No. 1662161 Page 39 of 39

Company/Name: West Bay Sanitary District		Project ID: WQ Monitoring		Signature below authorizes work under terms stated on reverse side.																		Analysis Request		Sample Notes		TAT						
Mailing Address: 500 Laurel Street Menlo Park, CA 94025		Project No:		<div style="display: flex; flex-direction: row-reverse;"> <div style="border: 1px solid black; padding: 5px; margin: 5px;"> 24 hr <input type="radio"/> 48 hr <input type="radio"/> Lab Approval Required For Rush </div> <div style="border: 1px solid black; padding: 5px; margin: 5px;"> 1 wk <input type="radio"/> 2 wk (standard) <input type="radio"/> </div> </div>																												
Project Contact & Email (Hardcopy or PDF to): John Simonetti jsimonetti@westbaysanitary.org		PO#																														
Phone/Fax:		Site Contact: <i>John Simonetti</i>																														
Field Sampler - Print Name & Signature <i>John Simonetti</i>		Sample Collection		Container		Preservative		Matrix																								
Sample Identification		Date Time		40ml Vial	Poly	Glass	Sleeve	Other	HCL	HNO3	H2SO4	Other	None	Water	Soil	Other	DU BOD	DU pH	200.7 - B, Ca, Mg, Na, Al, Fe, Mn, Zn	Ammonia, Phosphorus	Total Nitrogen	Sulfate, Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS	VSS	Hardness Calc			
G13104 072316A		7/24/0830		5						1	1		3	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	X	
G13220 072416B		7/24/0850		5						1	1		3	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	X	
G13223 072416C		7/24/0800		5						1	1		3	x			x	x	x	x	x	x	x	x	x	x	x	x	x	x	X	
Relinquished by:		Received by:		Date		Time																				CDPH Write On EDT Report?		Yes <input type="radio"/> No <input type="radio"/>				
Relinquished by:		Received by:		Date		Time																				State System Number:						
Relinquished by:		Received by:		Date		Time																				CA Geotracker EDF Report		Yes <input type="radio"/> No <input type="radio"/>				
Relinquished by:		Received by:		Date		Time																				Sampling Company Log Code:						
Relinquished by:		Received by:		Date		Time																				Global ID:		EDF to (Email Address):				
Relinquished by:		Received by:		Date		Time																				Travel and Site Time:		Misc. Supplies:				