



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

02 August 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16G1521

Enclosed are the results of analyses for samples received by the laboratory on 07/18/16 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:  
08/02/16 16:22

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
G13104 / 071616A	16G1521-01	Water	07/17/16 08:30	07/18/16 21:00
G13220 / 071616B	16G1521-02	Water	07/17/16 09:00	07/18/16 21:00
G13223 / 071616C	16G1521-03	Water	07/17/16 09:30	07/18/16 21:00



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Menlo Park, CA 94025

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

Reported:  
08/02/16 16:22

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>G13104 / 071616A (16G1521-01)</b>								
<b>Sample Type: Water</b>								
<b>Sampled: 07/17/16 08:30</b>								
<b>Metals (Drinking Water) by EPA 200 Series Methods</b>								
Potassium	17 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:19	EPA 200.7	
<b>Metals by EPA 200 Series Methods</b>								
Aluminum	1.2 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:19	EPA 200.7	
Boron	0.22 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:19	EPA 200.7	
Calcium	24 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:19	EPA 200.7	
Iron	3.6 mg/L	0.10	1	AG63917	07/26/16 12:30	07/29/16 15:19	EPA 200.7	
Magnesium	5.9 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:19	EPA 200.7	
Manganese	0.11 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:19	EPA 200.7	
Sodium	48 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:19	EPA 200.7	
Zinc	0.39 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:19	EPA 200.7	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
Ammonia as NH3	60 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C	
Bicarbonate	300 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Biochemical Oxygen Demand	200 mg/L	5.0	1	AG63867	07/20/16 07:00	07/25/16 12:00	SM5210B	T-16
pH	7.58 pH Units	1.68	1	AG63678	07/18/16 19:00	07/18/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	810 umhos/cm	20	1	AG63734	07/19/16 16:00	07/19/16 17:00	SM2510B	
Total Dissolved Solids	400 mg/L	10	1	AG63763	07/21/16 12:24	07/26/16 16:38	SM2540C	
Total Suspended Solids	310 mg/L	1.0	1	AG63705	07/20/16 09:55	07/25/16 09:37	SM2540D	
Volatile Suspended Solids	290 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	EPA 160.4	
Silica	21 mg/L	5.0	5	AG63694	07/20/16 08:30	07/20/16 10:30	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	250 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Total Alkalinity as CaCO3	250 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Total Kjeldahl Nitrogen	54 mg/L	1.0	1	AG63879	07/27/16 06:16	07/28/16 10:16	SM4500-Norg B	
Total Nitrogen	54 mg/L	1.0	1	AG63717	07/20/16 12:32	07/28/16 14:55	SM4500-N	
Hardness, Total	85 mg/L	5	1	AG63917	07/26/16 12:30	07/29/16 15:19	SM2340B	
Phosphorus, total	9.6 mg/L	2.0	5	AG63991	07/28/16 09:15	07/28/16 13:06	SM4500-P E	

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

Reported:  
08/02/16 16:22

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13104 / 071616A (16G1521-01)								
		Sample Type: Water			Sampled: 07/17/16 08:30			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.65 NA		1	AG63917	07/26/16 12:30	08/02/16 05:51	SAR	
Anions by EPA Method 300.0								
Chloride	53 mg/L	10	20	AG63645	07/19/16 19:23	07/19/16 19:23	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63645	07/19/16 19:39	07/19/16 19:39	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63645	07/19/16 19:39	07/19/16 19:39	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63645	07/19/16 19:39	07/19/16 19:39	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63645	07/19/16 19:39	07/19/16 19:39	EPA 300.0	T-5
Sulfate as SO4	31 mg/L	0.50	1	AG63645	07/19/16 19:39	07/19/16 19:39	EPA 300.0	
G13220 / 071616B (16G1521-02)								
		Sample Type: Water			Sampled: 07/17/16 09:00			
Metals (Drinking Water) by EPA 200 Series Methods								
Potassium	17 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:23	EPA 200.7	
Metals by EPA 200 Series Methods								
Aluminum	0.68 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:23	EPA 200.7	
Boron	1.0 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:23	EPA 200.7	
Calcium	34 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:23	EPA 200.7	
Iron	2.0 mg/L	0.10	1	AG63917	07/26/16 12:30	07/29/16 15:23	EPA 200.7	
Magnesium	19 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:23	EPA 200.7	
Manganese	0.049 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:23	EPA 200.7	
Sodium	91 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:23	EPA 200.7	
Zinc	0.22 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:23	EPA 200.7	



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Reported:  
08/02/16 16:22

	Result		Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13220 / 071616B (16G1521-02)									
			Sample Type: Water			Sampled: 07/17/16 09:00			
Conventional Chemistry Parameters by APHA/EPA Methods									
Ammonia as NH3	71 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C		
Bicarbonate	350 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B		
Biochemical Oxygen Demand	220 mg/L	5.0	1	AG63867	07/20/16 07:00	07/25/16 12:00	SM5210B		T-16
pH	7.60 pH Units	1.68	1	AG63678	07/18/16 19:00	07/18/16 19:00	SM4500-H+ B		T-14
Specific Conductance (EC)	1100 umhos/cm	20	1	AG63734	07/19/16 16:00	07/19/16 17:00	SM2510B		
Total Dissolved Solids	610 mg/L	10	1	AG63763	07/21/16 12:24	07/26/16 16:38	SM2540C		
Total Suspended Solids	290 mg/L	1.0	1	AG63705	07/20/16 09:55	07/25/16 09:37	SM2540D		
Volatile Suspended Solids	270 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	EPA 160.4		
Silica	22 mg/L	5.0	5	AG63694	07/20/16 08:30	07/20/16 10:30	SM4500-SiO2 C		
Bicarbonate Alkalinity as CaCO3	290 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B		
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B		
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B		
Total Alkalinity as CaCO3	290 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B		
Total Kjeldahl Nitrogen	73 mg/L	1.0	1	AG63879	07/27/16 06:16	07/28/16 10:16	SM4500-Norg B		
Total Nitrogen	73 mg/L	1.0	1	AG63717	07/20/16 12:32	07/28/16 14:55	SM4500-N		
Hardness, Total	164 mg/L	5	1	AG63917	07/26/16 12:30	07/29/16 15:23	SM2340B		
Phosphorus, total	7.5 mg/L	2.0	5	AG63991	07/28/16 09:15	07/28/16 13:06	SM4500-P E		
Miscellaneous Physical/Conventional Chemistry Parameters									
Sodium Adsorption Ratio-Adj RNa	3.53 NA		1	AG63917	07/26/16 12:30	08/02/16 05:51	SAR		
Anions by EPA Method 300.0									
Chloride	84 mg/L	12	25	AG63645	07/19/16 19:55	07/19/16 19:55	EPA 300.0		
Nitrate as N	ND mg/L	0.20	1	AG63645	07/19/16 20:11	07/19/16 20:11	EPA 300.0		T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63645	07/19/16 20:11	07/19/16 20:11	EPA 300.0		T-5
Nitrite as N	ND mg/L	0.20	1	AG63645	07/19/16 20:11	07/19/16 20:11	EPA 300.0		T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63645	07/19/16 20:11	07/19/16 20:11	EPA 300.0		T-5
Sulfate as SO4	110 mg/L	12	25	AG63645	07/19/16 19:55	07/19/16 19:55	EPA 300.0		
G13223 / 071616C (16G1521-03)									
			Sample Type: Water			Sampled: 07/17/16 09:30			
Metals (Drinking Water) by EPA 200 Series Methods									
Potassium	19 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:28	EPA 200.7		

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

Reported:  
08/02/16 16:22

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>G13223 / 071616C (16G1521-03)</b>								
<b>Sample Type: Water</b>								
<b>Sampled: 07/17/16 09:30</b>								
<b>Metals by EPA 200 Series Methods</b>								
Aluminum	0.46 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:28	EPA 200.7	
Boron	0.12 mg/L	0.050	1	AG63917	07/26/16 12:30	07/29/16 15:28	EPA 200.7	
Calcium	20 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:28	EPA 200.7	
Iron	1.6 mg/L	0.10	1	AG63917	07/26/16 12:30	07/29/16 15:28	EPA 200.7	
Magnesium	7.7 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:28	EPA 200.7	
Manganese	0.065 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:28	EPA 200.7	
Sodium	51 mg/L	1.0	1	AG63917	07/26/16 12:30	07/29/16 15:28	EPA 200.7	
Zinc	0.16 mg/L	0.020	1	AG63917	07/26/16 12:30	07/29/16 15:28	EPA 200.7	
<b>Conventional Chemistry Parameters by APHA/EPA Methods</b>								
Ammonia as NH3	72 mg/L	0.50	1	AG64041	07/29/16 08:13	07/29/16 17:00	SM4500NH3C	
Bicarbonate	360 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Biochemical Oxygen Demand	190 mg/L	5.0	1	AG63867	07/20/16 07:00	07/25/16 12:00	SM5210B	T-16
pH	7.29 pH Units	1.68	1	AG63678	07/18/16 19:00	07/18/16 19:00	SM4500-H+ B	T-14
Specific Conductance (EC)	930 umhos/cm	20	1	AG63734	07/19/16 16:00	07/19/16 17:00	SM2510B	
Total Dissolved Solids	400 mg/L	10	1	AG63763	07/21/16 12:24	07/26/16 16:38	SM2540C	
Total Suspended Solids	250 mg/L	1.0	1	AG63705	07/20/16 09:55	07/25/16 09:37	SM2540D	
Volatile Suspended Solids	220 mg/L	1.0	1	AG63711	07/22/16 10:00	07/25/16 16:30	EPA 160.4	
Silica	14 mg/L	5.0	5	AG63694	07/20/16 08:30	07/20/16 10:30	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	240 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Total Alkalinity as CaCO3	240 mg/L	5.0	1	AG63679	07/26/16 08:00	07/26/16 14:20	SM2320B	
Total Kjeldahl Nitrogen	78 mg/L	1.0	1	AG63879	07/27/16 06:16	07/28/16 10:16	SM4500-Norg B	
Total Nitrogen	78 mg/L	1.0	1	AG63717	07/20/16 12:32	07/28/16 14:55	SM4500-N	
Hardness, Total	81 mg/L	5	1	AG63917	07/26/16 12:30	07/29/16 15:28	SM2340B	
Phosphorus, total	8.6 mg/L	2.0	5	AG63991	07/28/16 09:15	07/28/16 13:06	SM4500-P E	

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

Reported:  
08/02/16 16:22

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
G13223 / 071616C (16G1521-03)		Sample Type: Water			Sampled: 07/17/16 09:30			
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNa	2.83 NA		1	AG63917	07/26/16 12:30	08/02/16 05:51	SAR	
Anions by EPA Method 300.0								
Chloride	42 mg/L	10	20	AG63645	07/19/16 20:59	07/19/16 20:59	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AG63645	07/19/16 21:15	07/19/16 21:15	EPA 300.0	T-5
Nitrate as NO3	ND mg/L	1.0	1	AG63645	07/19/16 21:15	07/19/16 21:15	EPA 300.0	T-5
Nitrite as N	ND mg/L	0.20	1	AG63645	07/19/16 21:15	07/19/16 21:15	EPA 300.0	T-5
Nitrite as NO2	ND mg/L	1.0	1	AG63645	07/19/16 21:15	07/19/16 21:15	EPA 300.0	T-5
Sulfate as SO4	35 mg/L	10	20	AG63645	07/19/16 20:59	07/19/16 20:59	EPA 300.0	



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08/02/16 16:22

### 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 AG63917 - Metals Digest</b>									
<b>Blank (AG63917-BLK1)</b>				Prepared: 07/26/16 Analyzed: 07/29/16					
Potassium	ND	1.0	mg/L						
<b>LCS (AG63917-BS1)</b>				Prepared: 07/26/16 Analyzed: 07/29/16					
Potassium	7.08	1.0	mg/L	8.00		88.6	85-115		
<b>Duplicate (AG63917-DUP1)</b>				<b>Source: 16G1530-08</b>		Prepared: 07/26/16 Analyzed: 07/29/16			
Potassium	19.9	1.0	mg/L		19.0		4.51	20	
<b>Matrix Spike (AG63917-MS1)</b>				<b>Source: 16G1530-08</b>		Prepared: 07/26/16 Analyzed: 07/29/16			
Potassium	27.7	1.0	mg/L	8.00	19.0	108	70-130		
<b>Matrix Spike (AG63917-MS2)</b>				<b>Source: 16G1930-01</b>		Prepared: 07/26/16 Analyzed: 07/29/16			
Potassium	9.07	1.0	mg/L	8.00	2.61	80.8	70-130		
<b>Matrix Spike Dup (AG63917-MSD1)</b>				<b>Source: 16G1530-08</b>		Prepared: 07/26/16 Analyzed: 07/29/16			
Potassium	27.3	1.0	mg/L	8.00	19.0	103	70-130	1.41	20





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

Reported:  
08/02/16 16:22

### Metals 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 AG63917 - Metals Digest</b>									
<b>Blank (AG63917-BLK1)</b>				Prepared: 07/26/16 Analyzed: 07/29/16					
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 (AG63917-BS1)</b>				Prepared: 07/26/16 Analyzed: 07/29/16					
Aluminum	1.81	0.050	mg/L	2.00		90.3	85-115		
Boron	0.342	0.050	mg/L	0.400		85.5	85-115		
Calcium	7.24	1.0	mg/L	8.00		90.5	85-115		
Iron	1.89	0.10	mg/L	2.00		94.4	85-115		
Magnesium	7.11	1.0	mg/L	8.00		88.9	85-115		
Manganese	0.185	0.020	mg/L	0.200		92.4	85-115		
Sodium	7.63	1.0	mg/L	8.00		95.4	85-115		
Zinc	0.181	0.020	mg/L	0.200		90.5	85-115		
<b>Duplicate (AG63917-DUP1)</b>				Source: 16G1530-08 Prepared: 07/26/16 Analyzed: 07/29/16					
Aluminum	0.102	0.050	mg/L		0.0954		6.75	20	
Boron	0.445	0.050	mg/L		0.418		6.38	20	
Calcium	107	1.0	mg/L		104		2.68	20	
Iron	0.113	0.10	mg/L		ND		13.3	20	
Magnesium	45.6	1.0	mg/L		43.5		4.72	20	
Manganese	ND	0.020	mg/L		ND		9.57	20	
Sodium	171	1.0	mg/L		166		3.09	20	
Zinc	0.0236	0.020	mg/L		0.0219		7.21	20	

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Menlo Park, CA 94025

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

Reported:  
08/02/16 16:22

### 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 AG63917 - Metals Digest</b>										
<b>Matrix Spike (AG63917-MS1)</b>		<b>Source: 16G1530-08</b>		Prepared: 07/26/16 Analyzed: 07/29/16						
Aluminum	1.98	0.050	mg/L	2.00	0.0954	94.2	70-130			
Boron	0.803	0.050	mg/L	0.400	0.418	96.4	70-130			
Calcium	114	1.0	mg/L	8.00	104	131	70-130			QM-4X
Iron	2.02	0.10	mg/L	2.00	ND	95.9	70-130			
Magnesium	53.5	1.0	mg/L	8.00	43.5	125	70-130			
Manganese	0.197	0.020	mg/L	0.200	ND	95.0	70-130			
Sodium	177	1.0	mg/L	8.00	166	147	70-130			QM-4X
Zinc	0.212	0.020	mg/L	0.200	0.0219	95.3	70-130			
<b>Matrix Spike (AG63917-MS2)</b>		<b>Source: 16G1930-01</b>		Prepared: 07/26/16 Analyzed: 07/29/16						
Aluminum	1.71	0.050	mg/L	2.00	ND	85.3	70-130			
Boron	0.384	0.050	mg/L	0.400	ND	83.8	70-130			
Calcium	26.7	1.0	mg/L	8.00	20.9	72.6	70-130			
Iron	4.93	0.10	mg/L	2.00	3.45	74.2	70-130			
Magnesium	19.3	1.0	mg/L	8.00	12.8	81.2	70-130			
Manganese	0.595	0.020	mg/L	0.200	0.458	68.6	70-130			QM-01
Sodium	24.9	1.0	mg/L	8.00	19.1	72.9	70-130			
Zinc	0.187	0.020	mg/L	0.200	ND	88.4	70-130			
<b>Matrix Spike Dup (AG63917-MSD1)</b>		<b>Source: 16G1530-08</b>		Prepared: 07/26/16 Analyzed: 07/29/16						
Aluminum	1.94	0.050	mg/L	2.00	0.0954	92.3	70-130	1.92	20	
Boron	0.790	0.050	mg/L	0.400	0.418	93.1	70-130	1.66	20	
Calcium	111	1.0	mg/L	8.00	104	96.0	70-130	2.49	20	
Iron	1.98	0.10	mg/L	2.00	ND	94.2	70-130	1.69	20	
Magnesium	52.3	1.0	mg/L	8.00	43.5	110	70-130	2.27	20	
Manganese	0.193	0.020	mg/L	0.200	ND	93.1	70-130	1.87	20	
Sodium	173	1.0	mg/L	8.00	166	97.7	70-130	2.26	20	
Zinc	0.209	0.020	mg/L	0.200	0.0219	93.6	70-130	1.61	20	

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

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08/02/16 16:22

### 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 AG63678 - General Preparation</b>										
<b>Duplicate (AG63678-DUP1)</b>	<b>Source: 16G1518-01</b>			Prepared & Analyzed: 07/18/16						
pH	7.40	1.68	pH Units		7.44			0.539	20	
<b>Batch AG63679 - General Preparation</b>										
<b>Duplicate (AG63679-DUP1)</b>	<b>Source: 16G1322-01</b>			Prepared & Analyzed: 07/26/16						
Bicarbonate	89.1	5.0	mg/L		90.3			1.36	20	
Carbonate Alkalinity as CaCO <sub>3</sub>	ND	5.0	mg/L		ND				20	
Total Alkalinity as CaCO <sub>3</sub>	73.0	5.0	mg/L		74.0			1.36	20	
Hydroxide Alkalinity as CaCO <sub>3</sub>	ND	5.0	mg/L		ND				20	
Bicarbonate Alkalinity as CaCO <sub>3</sub>	73.0	5.0	mg/L		74.0			1.36	20	
<b>Batch AG63694 - General Preparation</b>										
<b>Blank (AG63694-BLK1)</b>	Prepared & Analyzed: 07/20/16									
Silica	ND	1.0	mg/L							
<b>LCS (AG63694-BS1)</b>	Prepared & Analyzed: 07/20/16									
Silica	9.41	1.0	mg/L	10.0		94.1	85-115			
<b>LCS Dup (AG63694-BSD1)</b>	Prepared & Analyzed: 07/20/16									
Silica	8.83	1.0	mg/L	10.0		88.3	85-115	6.33	20	
<b>Duplicate (AG63694-DUP1)</b>	<b>Source: 16G1536-02</b>			Prepared & Analyzed: 07/20/16						
Silica	9.41	1.0	mg/L		9.91			5.18	20	
<b>Matrix Spike (AG63694-MS1)</b>	<b>Source: 16G1536-02</b>			Prepared & Analyzed: 07/20/16						
Silica	12.3	1.0	mg/L	5.00	9.91	48.5	80-120			QM-05



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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 AG63694 - General Preparation</b>										
<b>Matrix Spike Dup (AG63694-MSD1)</b>	<b>Source: 16G1536-02</b>			Prepared & Analyzed: 07/20/16						
Silica	12.4	1.0	mg/L	5.00	9.91	50.8	80-120	0.932	20	QM-05
<b>Batch AG63705 - General Preparation</b>										
<b>Blank (AG63705-BLK1)</b>				Prepared: 07/20/16 Analyzed: 07/25/16						
Total Suspended Solids	ND	1.0	mg/L							
<b>Duplicate (AG63705-DUP1)</b>	<b>Source: 16G1518-01</b>			Prepared: 07/20/16 Analyzed: 07/25/16						
Total Suspended Solids	255	1.0	mg/L		259			1.44	30	
<b>Duplicate (AG63705-DUP2)</b>	<b>Source: 16G1521-03</b>			Prepared: 07/20/16 Analyzed: 07/25/16						
Total Suspended Solids	217	1.0	mg/L		250			14.2	30	
<b>Batch AG63711 - General Preparation</b>										
<b>Blank (AG63711-BLK1)</b>				Prepared: 07/22/16 Analyzed: 07/25/16						
Volatile Suspended Solids	ND	1.0	mg/L							
<b>Duplicate (AG63711-DUP1)</b>	<b>Source: 16G1518-01</b>			Prepared: 07/22/16 Analyzed: 07/25/16						
Volatile Suspended Solids	230	1.0	mg/L		236			2.70	30	
<b>Duplicate (AG63711-DUP2)</b>	<b>Source: 16G1521-03</b>			Prepared: 07/22/16 Analyzed: 07/25/16						
Volatile Suspended Solids	193	1.0	mg/L		222			14.0	30	
<b>Batch AG63734 - General Preparation</b>										
<b>Duplicate (AG63734-DUP1)</b>	<b>Source: 16G1599-01</b>			Prepared & Analyzed: 07/19/16						
Specific Conductance (EC)	645	20	umhos/cm		646			0.155	5	



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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 AG63763 - General Preparation</b>										
<b>Blank (AG63763-BLK1)</b>				Prepared: 07/21/16 Analyzed: 07/26/16						
Total Dissolved Solids	ND	10	mg/L							
<b>Duplicate (AG63763-DUP1)</b>				Source: 16G1545-01 Prepared: 07/21/16 Analyzed: 07/26/16						
Total Dissolved Solids	332	10	mg/L		375			12.1	15	
<b>Batch AG63867 - General Preparation</b>										
<b>Blank (AG63867-BLK1)</b>				Prepared: 07/20/16 Analyzed: 07/25/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>Blank (AG63867-BLK2)</b>				Prepared: 07/20/16 Analyzed: 07/25/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>LCS (AG63867-BS1)</b>				Prepared: 07/20/16 Analyzed: 07/25/16						
Biochemical Oxygen Demand	212	5.0	mg/L	200		106	84-115			
<b>Duplicate (AG63867-DUP1)</b>				Source: 16G1524-03 Prepared: 07/20/16 Analyzed: 07/25/16						
Biochemical Oxygen Demand	210	5.0	mg/L		221			5.10	30	
<b>Batch AG63879 - General Prep</b>										
<b>LCS (AG63879-BS1)</b>				Prepared & Analyzed: 07/26/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120			
<b>LCS Dup (AG63879-BSD1)</b>				Prepared & Analyzed: 07/26/16						
Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98		99.0	80-120	0.00	20	



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### 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 AG63879 - General Prep</b>										
<b>Matrix Spike (AG63879-MS1)</b>	<b>Source: 16G1521-01</b>			Prepared: 07/27/16 Analyzed: 07/28/16						
Total Kjeldahl Nitrogen	93.2	1.0	mg/L	22.6	53.9	173	75-125			QM-4X
<b>Matrix Spike Dup (AG63879-MSD1)</b>	<b>Source: 16G1521-01</b>			Prepared: 07/27/16 Analyzed: 07/28/16						
Total Kjeldahl Nitrogen	93.2	1.0	mg/L	22.6	53.9	173	75-125	0.00	20	QM-4X
<b>Batch AG63917 - Metals Digest</b>										
<b>Blank (AG63917-BLK1)</b>	Prepared: 07/26/16 Analyzed: 07/29/16									
Hardness, Total	ND	5	mg/L							
<b>Duplicate (AG63917-DUP1)</b>	<b>Source: 16G1530-08</b>			Prepared: 07/26/16 Analyzed: 07/29/16						
Hardness, Total	454	5	mg/L		438			3.52	20	
<b>Batch AG63991 - General Prep</b>										
<b>Blank (AG63991-BLK1)</b>	Prepared & Analyzed: 07/28/16									
Phosphorus, total	ND	0.040	mg/L							
<b>LCS (AG63991-BS1)</b>	Prepared & Analyzed: 07/28/16									
Phosphorus, total	0.192	0.040	mg/L	0.200		95.9	85-115			
<b>Duplicate (AG63991-DUP1)</b>	<b>Source: 16G1518-01</b>			Prepared & Analyzed: 07/28/16						
Phosphorus, total	7.50	2.0	mg/L		7.57			0.889	20	
<b>Matrix Spike (AG63991-MS1)</b>	<b>Source: 16G1518-01</b>			Prepared & Analyzed: 07/28/16						
Phosphorus, total	8.78	2.0	mg/L	2.00	7.57	60.6	70-130			QM-4X



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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 AG63991 - General Prep</b>										
<b>Matrix Spike Dup (AG63991-MSD1)</b>		<b>Source: 16G1518-01</b>		Prepared & Analyzed: 07/28/16						
Phosphorus, total	8.78	2.0	mg/L	2.00	7.57	60.6	70-130	0.00	20	QM-4X
<b>Batch AG64041 - General Preparation</b>										
<b>Blank (AG64041-BLK1)</b>		Prepared & Analyzed: 07/29/16								
Ammonia as NH3	ND	0.50	mg/L							
<b>LCS (AG64041-BS1)</b>		Prepared & Analyzed: 07/29/16								
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110			
<b>LCS Dup (AG64041-BSD1)</b>		Prepared & Analyzed: 07/29/16								
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110	1.81	10	
<b>Matrix Spike (AG64041-MS1)</b>		<b>Source: 16G1636-02</b>		Prepared & Analyzed: 07/29/16						
Ammonia as NH3	12.3	0.50	mg/L	12.2	ND	101	85-115			
<b>Matrix Spike Dup (AG64041-MSD1)</b>		<b>Source: 16G1636-02</b>		Prepared & Analyzed: 07/29/16						
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115	3.51	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 AG63645 - General Preparation</b>										
<b>Blank (AG63645-BLK1)</b>				Prepared & Analyzed: 07/19/16						
Nitrite as N	ND	0.20	mg/L							
Sulfate as SO4	ND	0.50	mg/L							
Chloride	ND	0.50	mg/L							
Nitrate as NO3	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							
Nitrite as NO2	ND	1.0	mg/L							
<b>LCS (AG63645-BS1)</b>				Prepared & Analyzed: 07/19/16						
Sulfate as SO4	22.9	0.50	mg/L	22.2		103	90-110			
Chloride	11.5	0.50	mg/L	11.1		103	90-110			
Nitrite as N	5.58	0.20	mg/L	5.56		100	90-110			
Nitrite as NO2	18.3	1.0	mg/L	18.2		101	90-110			
Nitrate as NO3	26	1.0	mg/L	24.7		105	90-110			
Nitrate as N	5.86	0.20	mg/L	5.56		106	90-110			
<b>Duplicate (AG63645-DUP1)</b>				Source: 16G1539-01 Prepared & Analyzed: 07/19/16						
Sulfate as SO4	ND	0.50	mg/L		ND			5.82	20	
Nitrate as NO3	2.3	1.0	mg/L		2.3			0.435	20	
Chloride	1.77	0.50	mg/L		1.81			2.46	20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Nitrite as N	ND	0.20	mg/L		ND				20	
Nitrate as N	0.518	0.20	mg/L		0.520			0.435	20	
<b>Matrix Spike (AG63645-MS1)</b>				Source: 16G1539-01 Prepared & Analyzed: 07/19/16						
Nitrite as N	5.62	0.20	mg/L	5.56	ND	101	80-120			
Nitrate as N	6.47	0.20	mg/L	5.56	0.520	107	80-120			
Nitrate as NO3	29	1.0	mg/L	24.7	2.3	107	80-120			
Sulfate as SO4	23.6	0.50	mg/L	22.2	ND	105	80-120			
Nitrite as NO2	18.5	1.0	mg/L	18.2	ND	101	80-120			
Chloride	13.4	0.50	mg/L	11.1	1.81	104	80-120			

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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
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#### Batch AG63645 - General Preparation

##### Matrix Spike Dup (AG63645-MSD1)

Source: 16G1539-01

Prepared & Analyzed: 07/19/16

Nitrate as N	6.44	0.20	mg/L	5.56	0.520	107	80-120	0.493	20	
Nitrite as N	5.57	0.20	mg/L	5.56	ND	100	80-120	0.834	20	
Chloride	13.3	0.50	mg/L	11.1	1.81	104	80-120	0.433	20	
Sulfate as SO4	23.5	0.50	mg/L	22.2	ND	104	80-120	0.750	20	
Nitrate as NO3	29	1.0	mg/L	24.7	2.3	106	80-120	0.493	20	
Nitrite as NO2	18.3	1.0	mg/L	18.2	ND	101	80-120	0.834	20	



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

West Bay Sanitary District  
500 Laurel Street  
Menlo Park, CA 94025

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

Reported:  
08/02/16 16:22

#### Notes and Definitions

- QM-01 The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference.
- 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: <b>West Bay Sanitary District</b>		Project ID:		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:								24 hr <input type="radio"/> 48 hr <input type="radio"/> Lab <input type="radio"/> Approved <input type="radio"/> Required <input type="radio"/> 1 wk <input type="radio"/> 2 wk (standard) <input type="radio"/>	
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			
Date		Time		40ml Vial		Poly		Glass		Glove	
G13104		7/17/08		5		1		1		3	
G13220		7/17/08		5		1		1		3	
G13223		7/17/08		5		1		1		3	
G13224		7/17/08		5		1		1		3	
G13225		7/17/08		5		1		1		3	
G13226		7/17/08		5		1		1		3	
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G13228		7/17/08		5		1		1		3	
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G13231		7/17/08		5		1		1		3	
G13232		7/17/08		5		1		1		3	
G13233		7/17/08		5		1		1		3	
G13234		7/17/08		5		1		1		3	
G13235		7/17/08		5		1		1		3	
G13236		7/17/08		5		1		1		3	
G13237		7/17/08		5		1		1		3	
G13238		7/17/08		5		1		1		3	
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G13365		7/17/08		5		1		1		3	
G13366											



Sheri Speaks <speaks78@gmail.com>

---

**Fwd: Scanned Doc - 2FL Scanner 07/19/2016 09:07**

1 message

---

**Robbie Phillips** <robbie@alpha-labs.com>  
To: Sheri Speaks <speaks78@gmail.com>

Tue, Jul 19, 2016 at 10:16 AM

Robbie C. Phillips  
650-464-3237

Begin forwarded message:

**From:** Jed Beyer <JBeyer@westbaysanitary.org>  
**Date:** July 19, 2016 at 10:11:49 PDT  
**To:** "robbie@alpha-labs.com" <robbie@alpha-labs.com>  
**Subject:** FW: Scanned Doc - 2FL Scanner 07/19/2016 09:07

Hi Robbie,

We had to amend some dates. Please see the attached forms.

Thank you,

Jed

-----Original Message-----

From: 2FL-Scanner [mailto:it@westbaysanitary.org]  
Sent: Tuesday, July 19, 2016 9:07 AM  
To: Jed Beyer  
Subject: Scanned Doc - 2FL Scanner 07/19/2016 09:07

Scanned from MFP11330137  
Date:07/19/2016 09:07  
Pages:2  
Resolution:200x200 DPI  
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