



*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

21 April 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16D0565

Enclosed are the results of analyses for samples received by the laboratory on 04/06/16 21:45. 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: Oak Avenue

Reported:  
04/21/16 11:48

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Oak Avenue	16D0565-01	Water	04/06/16 09:00	04/06/16 21:45





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04/21/16 11:48

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
Oak Avenue (16D0565-01)								
Sample Type: Water			Sampled: 04/06/16 09:00					
Metals by EPA 200 Series Methods								
Boron	0.26 mg/L	0.050	1	AD63279	04/14/16 14:11	04/18/16 19:33	EPA 200.7	
Calcium	35 mg/L	1.0	1	AD63279	04/14/16 14:11	04/18/16 19:33	EPA 200.7	
Magnesium	17 mg/L	1.0	1	AD63279	04/14/16 14:11	04/18/16 19:33	EPA 200.7	
Sodium	70 mg/L	1.0	1	AD63279	04/14/16 14:11	04/18/16 19:33	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	46 mg/L	0.50	1	AD63329	04/18/16 08:13	04/18/16 08:45	SM4500NH3C	
Bicarbonate	370 mg/L	5.0	1	AD63024	04/12/16 12:00	04/12/16 15:19	SM2320B	
Biochemical Oxygen Demand	340 mg/L	5.0	1	AD63127	04/06/16 17:30	04/11/16 13:00	SM5210B	
pH	7.44 pH Units	1.68	1	AD63018	04/06/16 18:30	04/06/16 18:30	SM4500-H+ B	T-14
Specific Conductance (EC)	990 umhos/cm	20	1	AD63054	04/07/16 17:00	04/07/16 17:00	SM2510B	
Total Dissolved Solids	460 mg/L	10	1	AD63143	04/12/16 09:45	04/14/16 09:30	SM2540C	
Total Suspended Solids	210 mg/L	1.0	1	AD63123	04/11/16 13:10	04/12/16 15:00	SM2540D	
Silica	20 mg/L	2.0	2	AD63052	04/08/16 09:45	04/08/16 12:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	300 mg/L	5.0	1	AD63024	04/12/16 12:00	04/12/16 15:19	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AD63024	04/12/16 12:00	04/12/16 15:19	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AD63024	04/12/16 12:00	04/12/16 15:19	SM2320B	
Total Alkalinity as CaCO3	300 mg/L	5.0	1	AD63024	04/12/16 12:00	04/12/16 15:19	SM2320B	
Total Kjeldahl Nitrogen	53 mg/L	1.0	1	AD63043	04/11/16 06:20	04/12/16 10:42	SM4500-Norg B	
Total Nitrogen	53 mg/L	1.0	1	AD63158	04/12/16 09:50	04/13/16 16:58	SM4500-N	
Phosphorus, total	8.3 mg/L	2.0	5	AD63138	04/12/16 06:35	04/12/16 13:50	SM4500-P E	
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.85 NA		1	AD63279	04/14/16 14:11	04/21/16 05:39	SAR	





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	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
<b>Oak Avenue (16D0565-01)</b>	<b>Sample Type: Water</b>			<b>Sampled: 04/06/16 09:00</b>				
<b>Anions by EPA Method 300.0</b>								
<b>Chloride</b>	<b>63 mg/L</b>	<b>10</b>	20	AD63037	04/08/16 00:30	04/08/16 00:30	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AD63037	04/08/16 00:30	04/08/16 00:30	EPA 300.0	
Nitrate as NO3	ND mg/L	1.0	1	AD63037	04/08/16 00:30	04/08/16 00:30	EPA 300.0	
Nitrite as N	ND mg/L	0.20	1	AD63037	04/08/16 00:30	04/08/16 00:30	EPA 300.0	
Nitrite as NO2	ND mg/L	1.0	1	AD63037	04/08/16 00:30	04/08/16 00:30	EPA 300.0	





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### Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AD63279 - Metals Digest</b>										
<b>Blank (AD63279-BLK1)</b>				Prepared: 04/14/16 Analyzed: 04/18/16						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	mg/L							
Sodium	ND	1.0	mg/L							
<b>LCS (AD63279-BS1)</b>				Prepared: 04/14/16 Analyzed: 04/18/16						
Boron	0.371	0.050	mg/L	0.400		92.7	85-115			
Calcium	6.88	1.0	mg/L	8.00		86.0	85-115			
Magnesium	7.34	1.0	mg/L	8.00		91.7	85-115			
Sodium	7.58	1.0	mg/L	8.00		94.8	85-115			
<b>Duplicate (AD63279-DUP1)</b>				<b>Source: 16D0530-10</b>		Prepared: 04/14/16 Analyzed: 04/18/16				
Boron	0.215	0.050	mg/L		0.203			5.71	20	
Calcium	31.7	1.0	mg/L		31.1			2.14	20	
Magnesium	19.9	1.0	mg/L		18.3			8.15	20	
Sodium	165	1.0	mg/L		159			3.90	20	
<b>Matrix Spike (AD63279-MS1)</b>				<b>Source: 16D0530-10</b>		Prepared: 04/14/16 Analyzed: 04/18/16				
Boron	0.556	0.050	mg/L	0.400	0.203	88.2	70-130			
Calcium	38.3	1.0	mg/L	8.00	31.1	90.0	70-130			
Magnesium	27.5	1.0	mg/L	8.00	18.3	115	70-130			
Sodium	165	1.0	mg/L	8.00	159	79.8	70-130			
<b>Matrix Spike (AD63279-MS2)</b>				<b>Source: 16D0561-01</b>		Prepared: 04/14/16 Analyzed: 04/18/16				
Boron	0.643	0.050	mg/L	0.400	0.296	86.8	70-130			
Calcium	8.85	1.0	mg/L	8.00	1.77	88.5	70-130			
Magnesium	8.74	1.0	mg/L	8.00	1.07	95.9	70-130			
Sodium	577	1.0	mg/L	8.00	572	66.0	70-130			QM-4X

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





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### Metals by EPA 200 Series Methods - Quality Control

Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AD63279 - Metals Digest</b>										
<b>Matrix Spike Dup (AD63279-MSD1)</b>	<b>Source: 16D0530-10</b>			Prepared: 04/14/16 Analyzed: 04/18/16						
Boron	0.539	0.050	mg/L	0.400	0.203	83.8	70-130	3.18	20	
Calcium	36.4	1.0	mg/L	8.00	31.1	66.9	70-130	4.96	20	QM-01
Magnesium	26.4	1.0	mg/L	8.00	18.3	101	70-130	4.20	20	
Sodium	158	1.0	mg/L	8.00	159	NR	70-130	4.45	20	QM-4X





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04/21/16 11:48

### 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
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#### Batch AD63018 - General Preparation

##### Duplicate (AD63018-DUP1)

Source: 16D0565-01

Prepared & Analyzed: 04/06/16

pH	7.52	1.68	pH Units		7.44			1.07	20	
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#### Batch AD63024 - General Preparation

##### Duplicate (AD63024-DUP1)

Source: 16D0416-01

Prepared & Analyzed: 04/12/16

Bicarbonate	80.8	5.0	mg/L		80.5			0.372	20	
Bicarbonate Alkalinity as CaCO <sub>3</sub>	66.0	5.0	mg/L		66.0			0.00	20	
Total Alkalinity as CaCO <sub>3</sub>	66.0	5.0	mg/L		66.0			0.00	20	
Carbonate Alkalinity as CaCO <sub>3</sub>	ND	5.0	mg/L		ND				20	
Hydroxide Alkalinity as CaCO <sub>3</sub>	ND	5.0	mg/L		ND				20	

#### Batch AD63043 - General Prep

##### LCS (AD63043-BS1)

Prepared: 04/08/16 Analyzed: 04/11/16

Total Kjeldahl Nitrogen	3.13	1.0	mg/L	2.98		105	80-120			
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##### LCS Dup (AD63043-BSD1)

Prepared: 04/08/16 Analyzed: 04/11/16

Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120	2.98	20	
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##### Matrix Spike (AD63043-MS1)

Source: 16D0468-01

Prepared: 04/08/16 Analyzed: 04/11/16

Total Kjeldahl Nitrogen	3.23	1.0	mg/L	2.98	ND	89.5	75-125			
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##### Matrix Spike Dup (AD63043-MSD1)

Source: 16D0468-01

Prepared: 04/08/16 Analyzed: 04/11/16

Total Kjeldahl Nitrogen	3.23	1.0	mg/L	2.98	ND	89.5	75-125	0.00	20	
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04/21/16 11:48

### 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 AD63052 - General Preparation</b>										
<b>Blank (AD63052-BLK1)</b>				Prepared & Analyzed: 04/08/16						
Silica	ND	1.0	mg/L							
<b>LCS (AD63052-BS1)</b>				Prepared & Analyzed: 04/08/16						
Silica	10.3	1.0	mg/L	10.0		103	85-115			
<b>LCS Dup (AD63052-BSD1)</b>				Prepared & Analyzed: 04/08/16						
Silica	10.5	1.0	mg/L	10.0		105	85-115	2.48	20	
<b>Duplicate (AD63052-DUP1)</b>				<b>Source: 16D0361-01</b>		Prepared & Analyzed: 04/08/16				
Silica	20.8	2.0	mg/L		21.3			2.46	20	
<b>Matrix Spike (AD63052-MS1)</b>				<b>Source: 16D0361-01</b>		Prepared & Analyzed: 04/08/16				
Silica	30.2	4.0	mg/L	10.0	21.3	89.4	80-120			
<b>Matrix Spike Dup (AD63052-MSD1)</b>				<b>Source: 16D0361-01</b>		Prepared & Analyzed: 04/08/16				
Silica	29.9	4.0	mg/L	10.0	21.3	86.4	80-120	0.982	20	
<b>Batch AD63054 - General Preparation</b>										
<b>Duplicate (AD63054-DUP1)</b>				<b>Source: 16D0464-01</b>		Prepared & Analyzed: 04/07/16				
Specific Conductance (EC)	373	20	umhos/cm		373			0.00	5	
<b>Batch AD63123 - General Preparation</b>										
<b>Blank (AD63123-BLK1)</b>				Prepared: 04/11/16 Analyzed: 04/12/16						
Total Suspended Solids	ND	1.0	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 Limits	RPD	RPD Limit	Flag
<b>Batch AD63123 - General Preparation</b>									
<b>Duplicate (AD63123-DUP1)</b>	<b>Source: 16D0487-01</b>			Prepared: 04/11/16 Analyzed: 04/12/16					
Total Suspended Solids	144	1.0	mg/L		149		2.92	30	
<b>Duplicate (AD63123-DUP2)</b>	<b>Source: 16D0488-02</b>			Prepared: 04/11/16 Analyzed: 04/12/16					
Total Suspended Solids	114	1.0	mg/L		102		10.4	30	
<b>Batch AD63127 - General Preparation</b>									
<b>Blank (AD63127-BLK1)</b>	Prepared: 04/06/16 Analyzed: 04/11/16								
Biochemical Oxygen Demand	ND	5.0	mg/L						
<b>Blank (AD63127-BLK2)</b>	Prepared: 04/06/16 Analyzed: 04/11/16								
Biochemical Oxygen Demand	ND	5.0	mg/L						
<b>LCS (AD63127-BS1)</b>	Prepared: 04/05/16 Analyzed: 04/10/16								
Biochemical Oxygen Demand	220	5.0	mg/L	200		110 84-115			
<b>Duplicate (AD63127-DUP1)</b>	<b>Source: 16D0344-02</b>			Prepared: 04/06/16 Analyzed: 04/11/16					
Biochemical Oxygen Demand	ND	5.0	mg/L		ND			30	
<b>Batch AD63138 - General Prep</b>									
<b>Blank (AD63138-BLK1)</b>	Prepared & Analyzed: 04/12/16								
Phosphorus, total	ND	0.040	mg/L						
<b>LCS (AD63138-BS1)</b>	Prepared & Analyzed: 04/12/16								
Phosphorus, total	0.194	0.040	mg/L	0.200		97.1 85-115			





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Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AD63138 - General Prep</b>										
<b>Duplicate (AD63138-DUP1)</b>	<b>Source: 16D0544-01</b>			Prepared & Analyzed: 04/12/16						
Phosphorus, total	0.0579	0.040	mg/L		0.0553			4.68	20	
<b>Matrix Spike (AD63138-MS1)</b>	<b>Source: 16D0544-01</b>			Prepared & Analyzed: 04/12/16						
Phosphorus, total	0.238	0.040	mg/L	0.200	0.0553	91.3	70-130			
<b>Matrix Spike (AD63138-MS2)</b>	<b>Source: 16D0675-01</b>			Prepared & Analyzed: 04/12/16						
Phosphorus, total	5.61	0.80	mg/L	2.00	4.02	79.4	70-130			
<b>Matrix Spike Dup (AD63138-MSD1)</b>	<b>Source: 16D0544-01</b>			Prepared & Analyzed: 04/12/16						
Phosphorus, total	0.239	0.040	mg/L	0.200	0.0553	92.0	70-130	0.553	20	
<b>Batch AD63143 - General Preparation</b>										
<b>Blank (AD63143-BLK1)</b>	Prepared: 04/12/16 Analyzed: 04/14/16									
Total Dissolved Solids	ND	10	mg/L							
<b>Duplicate (AD63143-DUP1)</b>	<b>Source: 16D0468-02</b>			Prepared: 04/12/16 Analyzed: 04/14/16						
Total Dissolved Solids	948	10	mg/L		988			4.13	15	
<b>Duplicate (AD63143-DUP2)</b>	<b>Source: 16D0468-04</b>			Prepared: 04/12/16 Analyzed: 04/14/16						
Total Dissolved Solids	1020	10	mg/L		1180			14.6	15	
<b>Batch AD63329 - General Preparation</b>										
<b>Blank (AD63329-BLK1)</b>	Prepared & Analyzed: 04/18/16									
Ammonia as NH3	ND	0.50	mg/L							





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Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AD63329 - General Preparation</b>										
<b>Blank (AD63329-BLK2)</b>				Prepared & Analyzed: 04/18/16						
Ammonia as NH <sub>3</sub>	ND	0.50	mg/L							
<b>LCS (AD63329-BS1)</b>				Prepared & Analyzed: 04/18/16						
Ammonia as NH <sub>3</sub>	5.96	0.50	mg/L	6.10		97.7	90-110			
<b>LCS Dup (AD63329-BSD1)</b>				Prepared & Analyzed: 04/18/16						
Ammonia as NH <sub>3</sub>	6.07	0.50	mg/L	6.10		99.5	90-110	1.76	10	
<b>Matrix Spike (AD63329-MS1)</b>				<b>Source: 16D0632-02</b>		Prepared & Analyzed: 04/19/16				
Ammonia as NH <sub>3</sub>	5.75	0.50	mg/L	6.10	ND	94.2	85-115			
<b>Matrix Spike Dup (AD63329-MSD1)</b>				<b>Source: 16D0632-02</b>		Prepared & Analyzed: 04/19/16				
Ammonia as NH <sub>3</sub>	5.96	0.50	mg/L	6.10	ND	97.7	85-115	3.64	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: Oak Avenue

Reported:  
04/21/16 11:48

### 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 AD63037 - General Preparation</b>										
<b>Blank (AD63037-BLK1)</b>				Prepared & Analyzed: 04/07/16						
Chloride	ND	0.50	mg/L							
Nitrite as NO2	ND	1.0	mg/L							
Nitrate as NO3	ND	1.0	mg/L							
Nitrate as N	ND	0.20	mg/L							
Nitrite as N	ND	0.20	mg/L							
<b>LCS (AD63037-BS1)</b>				Prepared & Analyzed: 04/07/16						
Chloride	10.3	0.50	mg/L	10.0		103	90-110			
Nitrite as NO2	15.8	1.0	mg/L	16.4		96.5	90-110			
Nitrate as NO3	23	1.0	mg/L	22.2		104	90-110			
Nitrate as N	5.19	0.20	mg/L	5.00		104	90-110			
Nitrite as N	4.81	0.20	mg/L	5.00		96.2	90-110			
<b>Duplicate (AD63037-DUP1)</b>				<b>Source: 16D0468-05</b>		Prepared & Analyzed: 04/10/16				
Nitrate as NO3	ND	1.0	mg/L		ND				20	
Chloride	4.38	0.50	mg/L		4.34			0.802	20	
Nitrate as N	ND	0.20	mg/L		ND				20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Nitrite as N	ND	0.20	mg/L		ND				20	
<b>Matrix Spike (AD63037-MS1)</b>				<b>Source: 16D0468-05</b>		Prepared & Analyzed: 04/10/16				
Chloride	15.9	0.50	mg/L	11.1	4.34	104	80-120			
Nitrate as NO3	26	1.0	mg/L	24.7	ND	106	80-120			
Nitrate as N	5.89	0.20	mg/L	5.56	ND	106	80-120			
Nitrite as N	5.95	0.20	mg/L	5.56	ND	107	80-120			
Nitrite as NO2	19.6	1.0	mg/L	18.2	ND	108	80-120			
<b>Matrix Spike (AD63037-MS2)</b>				<b>Source: 16D0510-02</b>		Prepared & Analyzed: 04/10/16				
Chloride	14.9	0.50	mg/L	11.1	3.03	106	80-120			
Nitrate as NO3	27	1.0	mg/L	24.7	1.0	107	80-120			
Nitrate as N	6.20	0.20	mg/L	5.56	0.228	107	80-120			
Nitrite as NO2	19.3	1.0	mg/L	18.2	ND	106	80-120			
Nitrite as N	5.85	0.20	mg/L	5.56	ND	105	80-120			

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.





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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 AD63037 - General Preparation

##### Matrix Spike Dup (AD63037-MSD1)

Source: 16D0468-05

Prepared & Analyzed: 04/10/16

Chloride	16.2	0.50	mg/L	11.1	4.34	106	80-120	1.34	20	
Nitrate as NO <sub>3</sub>	26	1.0	mg/L	24.7	ND	107	80-120	1.32	20	
Nitrite as NO <sub>2</sub>	19.8	1.0	mg/L	18.2	ND	108	80-120	0.910	20	
Nitrite as N	6.01	0.20	mg/L	5.56	ND	108	80-120	0.910	20	
Nitrate as N	5.97	0.20	mg/L	5.56	ND	107	80-120	1.32	20	





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#### 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-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



