



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

27 April 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16D0794

Enclosed are the results of analyses for samples received by the laboratory on 04/11/16 21:15. 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:
04/27/16 15:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Oak Avenue	16D0794-01	Water	04/08/16 09:00	04/11/16 21:15



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04/27/16 15:52

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
Oak Avenue (16D0794-01)								
Sample Type: Water			Sampled: 04/08/16 09:00					
Metals by EPA 200 Series Methods								
Boron	0.29 mg/L	0.050	1	AD63405	04/19/16 14:08	04/26/16 13:33	EPA 200.7	
Calcium	40 mg/L	1.0	1	AD63405	04/19/16 14:08	04/26/16 13:33	EPA 200.7	
Magnesium	17 mg/L	1.0	1	AD63405	04/19/16 14:08	04/26/16 13:33	EPA 200.7	
Sodium	91 mg/L	1.0	1	AD63405	04/19/16 14:08	04/26/16 13:33	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	63 mg/L	0.50	1	AD63386	04/19/16 08:43	04/19/16 10:50	SM4500NH3C	
Bicarbonate	390 mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Biochemical Oxygen Demand	270 mg/L	5.0	1	AD63227	04/08/16 17:30	04/13/16 13:00	SM5210B	
pH	7.46 pH Units	1.68	1	AD63164	04/11/16 18:00	04/11/16 18:00	SM4500-H+ B	T-14
Specific Conductance (EC)	1100 umhos/cm	20	1	AD63192	04/12/16 17:00	04/12/16 17:00	SM2510B	
Total Dissolved Solids	470 mg/L	10	1	AD63243	04/14/16 09:45	04/18/16 12:00	SM2540C	
Total Suspended Solids	560 mg/L	1.0	1	AD63171	04/12/16 14:00	04/13/16 11:00	SM2540D	
Silica	20 mg/L	2.0	2	AD63291	04/20/16 11:30	04/20/16 16:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	320 mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Carbonate Alkalinity as CaCO3	ND mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Hydroxide Alkalinity as CaCO3	ND mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Total Alkalinity as CaCO3	320 mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	73 mg/L	1.0	1	AD63090	04/13/16 06:08	04/14/16 10:04	SM4500-Norg B	
Total Nitrogen	73 mg/L	1.0	1	AD63202	04/13/16 10:05	04/21/16 16:16	SM4500-N	
Phosphorus, total	12 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	3.69 NA		1	AD63405	04/19/16 14:08	04/27/16 11:21	SAR	



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	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
Oak Avenue (16D0794-01)		Sample Type: Water			Sampled: 04/08/16 09:00			
Anions by EPA Method 300.0								
Chloride	110 mg/L	12	25	AD63154	04/12/16 12:04	04/12/16 12:04	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AD63154	04/12/16 12:20	04/12/16 12:20	EPA 300.0	T-17
Nitrate as NO3	ND mg/L	1.0	1	AD63154	04/12/16 12:20	04/12/16 12:20	EPA 300.0	T-17
Nitrite as N	ND mg/L	0.20	1	AD63154	04/12/16 12:20	04/12/16 12:20	EPA 300.0	T-17
Nitrite as NO2	ND mg/L	1.0	1	AD63154	04/12/16 12:20	04/12/16 12:20	EPA 300.0	T-17



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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
Batch AD63405 - Metals Digest										
Blank (AD63405-BLK1)				Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	mg/L							
Magnesium	ND	1.0	mg/L							
Sodium	ND	1.0	mg/L							
LCS (AD63405-BS1)				Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	0.410	0.050	mg/L	0.400		103	85-115			
Calcium	7.25	1.0	mg/L	8.00		90.6	85-115			
Magnesium	7.19	1.0	mg/L	8.00		89.9	85-115			
Sodium	7.51	1.0	mg/L	8.00		93.9	85-115			
Duplicate (AD63405-DUP1)				Source: 16D0899-02		Prepared: 04/19/16 Analyzed: 04/21/16				
Boron	0.213	0.050	mg/L		0.204			4.15	20	
Calcium	24.2	1.0	mg/L		24.4			0.580	20	
Magnesium	1.44	1.0	mg/L		1.39			3.51	20	
Sodium	329	1.0	mg/L		346			5.13	20	
Matrix Spike (AD63405-MS1)				Source: 16D0899-02		Prepared: 04/19/16 Analyzed: 04/21/16				
Boron	0.606	0.050	mg/L	0.400	0.204	100	70-130			
Calcium	32.1	1.0	mg/L	8.00	24.4	96.6	70-130			
Magnesium	8.94	1.0	mg/L	8.00	1.39	94.4	70-130			
Sodium	336	1.0	mg/L	8.00	346	NR	70-130			QM-4X
Matrix Spike (AD63405-MS2)				Source: 16D0791-02		Prepared: 04/19/16 Analyzed: 04/21/16				
Boron	0.403	0.050	mg/L	0.400	ND	101	70-130			
Calcium	8.04	1.0	mg/L	8.00	ND	95.9	70-130			
Magnesium	7.72	1.0	mg/L	8.00	ND	95.6	70-130			
Sodium	7.99	1.0	mg/L	8.00	ND	98.0	70-130			

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Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: Oak Avenue

Reported:
04/27/16 15:52

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 AD63405 - Metals Digest										
Matrix Spike Dup (AD63405-MSD1)		Source: 16D0899-02		Prepared: 04/19/16 Analyzed: 04/21/16						
Boron	0.570	0.050	mg/L	0.400	0.204	91.6	70-130	6.01	20	
Calcium	32.5	1.0	mg/L	8.00	24.4	102	70-130	1.28	20	
Magnesium	8.54	1.0	mg/L	8.00	1.39	89.4	70-130	4.55	20	
Sodium	347	1.0	mg/L	8.00	346	3.12	70-130	3.10	20	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
Batch AD63090 - General Prep										
LCS (AD63090-BS1)				Prepared: 04/11/16 Analyzed: 04/12/16						
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120			
LCS Dup (AD63090-BSD1)				Prepared: 04/11/16 Analyzed: 04/12/16						
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120	0.00	20	
Matrix Spike (AD63090-MS1)				Source: 16D0632-01		Prepared & Analyzed: 04/12/16				
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98	ND	102	75-125			
Matrix Spike Dup (AD63090-MSD1)				Source: 16D0632-01		Prepared & Analyzed: 04/12/16				
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98	ND	102	75-125	0.00	20	
Batch AD63111 - General Preparation										
Duplicate (AD63111-DUP1)				Source: 16D0865-01		Prepared & Analyzed: 04/13/16				
Bicarbonate	26.8	5.0	mg/L		26.8			0.00	20	
Total Alkalinity as CaCO ₃	22.0	5.0	mg/L		22.0			0.00	20	
Carbonate Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Bicarbonate Alkalinity as CaCO ₃	22.0	5.0	mg/L		22.0			0.00	20	
Hydroxide Alkalinity as CaCO ₃	ND	5.0	mg/L		ND				20	
Batch AD63138 - General Prep										
Blank (AD63138-BLK1)				Prepared & Analyzed: 04/12/16						
Phosphorus, total	ND	0.040	mg/L							
LCS (AD63138-BS1)				Prepared & Analyzed: 04/12/16						
Phosphorus, total	0.194	0.040	mg/L	0.200		97.1	85-115			



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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 AD63138 - General Prep										
Duplicate (AD63138-DUP1)		Source: 16D0544-01		Prepared & Analyzed: 04/12/16						
Phosphorus, total	0.0579	0.040	mg/L		0.0553			4.68	20	
Matrix Spike (AD63138-MS1)		Source: 16D0544-01		Prepared & Analyzed: 04/12/16						
Phosphorus, total	0.238	0.040	mg/L	0.200	0.0553	91.3	70-130			
Matrix Spike (AD63138-MS2)		Source: 16D0675-01		Prepared & Analyzed: 04/12/16						
Phosphorus, total	5.61	0.80	mg/L	2.00	4.02	79.4	70-130			
Matrix Spike Dup (AD63138-MSD1)		Source: 16D0544-01		Prepared & Analyzed: 04/12/16						
Phosphorus, total	0.239	0.040	mg/L	0.200	0.0553	92.0	70-130	0.553	20	
Batch AD63164 - General Preparation										
Duplicate (AD63164-DUP1)		Source: 16D0794-01		Prepared & Analyzed: 04/11/16						
pH	7.43	1.68	pH Units		7.46			0.403	20	
Batch AD63171 - General Preparation										
Blank (AD63171-BLK1)				Prepared: 04/12/16 Analyzed: 04/13/16						
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AD63171-DUP1)		Source: 16D0662-01		Prepared: 04/12/16 Analyzed: 04/13/16						
Total Suspended Solids	506	1.0	mg/L		502			0.794	30	
Duplicate (AD63171-DUP2)		Source: 16D0671-01		Prepared: 04/12/16 Analyzed: 04/13/16						
Total Suspended Solids	395	1.0	mg/L		398			0.839	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 AD63192 - General Preparation										
Duplicate (AD63192-DUP1)	Source: 16D0977-01			Prepared & Analyzed: 04/12/16						
Specific Conductance (EC)	153	20	umhos/cm		152			0.656	5	
Batch AD63227 - General Preparation										
Blank (AD63227-BLK1)				Prepared: 04/08/16 Analyzed: 04/13/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AD63227-BLK2)				Prepared: 04/08/16 Analyzed: 04/13/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
LCS (AD63227-BS1)				Prepared: 04/05/16 Analyzed: 04/10/16						
Biochemical Oxygen Demand	220	5.0	mg/L	200		110	84-115			
Duplicate (AD63227-DUP1)	Source: 16D0654-01			Prepared: 04/08/16 Analyzed: 04/13/16						
Biochemical Oxygen Demand	ND	5.0	mg/L		ND				30	
Batch AD63243 - General Preparation										
Blank (AD63243-BLK1)				Prepared: 04/14/16 Analyzed: 04/18/16						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AD63243-DUP1)	Source: 16D0912-01			Prepared: 04/14/16 Analyzed: 04/18/16						
Total Dissolved Solids	780	10	mg/L		840			7.41	15	
Duplicate (AD63243-DUP2)	Source: 16D1035-01			Prepared: 04/14/16 Analyzed: 04/18/16						
Total Dissolved Solids	640	10	mg/L		600			6.45	15	



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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 AD63291 - General Preparation										
Blank (AD63291-BLK1)				Prepared & Analyzed: 04/20/16						
Silica	ND	1.0	mg/L							
LCS (AD63291-BS1)				Prepared & Analyzed: 04/20/16						
Silica	10.6	1.0	mg/L	10.0		106	85-115			
LCS Dup (AD63291-BSD1)				Prepared & Analyzed: 04/20/16						
Silica	11.0	1.0	mg/L	10.0		110	85-115	4.17	20	
Duplicate (AD63291-DUP1)				Prepared & Analyzed: 04/20/16						
Silica	15.8	2.0	mg/L		15.7			0.518	20	
Matrix Spike (AD63291-MS1)				Prepared & Analyzed: 04/20/16						
Silica	33.2	2.0	mg/L	20.0	15.7	87.1	80-120			
Matrix Spike Dup (AD63291-MSD1)				Prepared & Analyzed: 04/20/16						
Silica	34.7	2.0	mg/L	20.0	15.7	94.9	80-120	4.58	20	
Batch AD63386 - General Preparation										
Blank (AD63386-BLK1)				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	ND	0.50	mg/L							
Blank (AD63386-BLK2)				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	ND	0.50	mg/L							
LCS (AD63386-BS1)				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110			



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Analyte(s)	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AD63386 - General Preparation										
LCS Dup (AD63386-BSD1)				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110	1.81	10	
Matrix Spike (AD63386-MS1)				Source: 16D0958-02 Prepared: 04/19/16 Analyzed: 04/20/16						
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115			
Matrix Spike Dup (AD63386-MSD1)				Source: 16D0958-02 Prepared: 04/19/16 Analyzed: 04/20/16						
Ammonia as NH3	11.5	0.50	mg/L	12.2	ND	94.2	85-115	3.64	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 AD63154 - General Preparation										
Blank (AD63154-BLK1)				Prepared & Analyzed: 04/12/16						
Chloride	ND	0.50	mg/L							
Nitrate as N	ND	0.20	mg/L							
Nitrite as N	ND	0.20	mg/L							
Nitrite as NO2	ND	1.0	mg/L							
Nitrate as NO3	ND	1.0	mg/L							
LCS (AD63154-BS1)				Prepared & Analyzed: 04/12/16						
Chloride	11.4	0.50	mg/L	11.1		102	90-110			
Nitrite as N	5.27	0.20	mg/L	5.56		94.8	90-110			
Nitrate as N	5.71	0.20	mg/L	5.56		103	90-110			
Nitrate as NO3	25	1.0	mg/L	24.7		103	90-110			
Nitrite as NO2	17.3	1.0	mg/L	18.2		95.1	90-110			
Duplicate (AD63154-DUP1)				Source: 16D0857-01		Prepared & Analyzed: 04/12/16				
Nitrate as NO3	ND	1.0	mg/L		ND			14.5	20	
Chloride	4.42	0.50	mg/L		4.44			0.361	20	
Nitrate as N	ND	0.20	mg/L		ND			14.5	20	
Nitrite as NO2	ND	1.0	mg/L		ND				20	
Nitrite as N	ND	0.20	mg/L		ND				20	
Matrix Spike (AD63154-MS1)				Source: 16D0857-01		Prepared & Analyzed: 04/12/16				
Nitrate as N	5.96	0.20	mg/L	5.56	ND	106	80-120			
Chloride	15.9	0.50	mg/L	11.1	4.44	103	80-120			
Nitrate as NO3	26	1.0	mg/L	24.7	ND	106	80-120			
Nitrite as N	5.45	0.20	mg/L	5.56	ND	97.1	80-120			
Nitrite as NO2	17.9	1.0	mg/L	18.2	ND	97.4	80-120			
Matrix Spike (AD63154-MS2)				Source: 16D0875-01		Prepared & Analyzed: 04/12/16				
Nitrite as N	4.64	2.0	mg/L	5.56	ND	83.6	80-120			
Nitrite as NO2	15.3	10	mg/L	18.2	ND	83.9	80-120			
Nitrate as N	5.87	2.0	mg/L	5.56	ND	86.4	80-120			
Nitrate as NO3	26	10	mg/L	24.7	ND	86.2	80-120			
Chloride	91.3	5.0	mg/L	11.1	80.5	96.9	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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West Bay Sanitary District
500 Laurel Street
Menlo Park, CA 94025

Project Manager: John Simonetti
Project: WQ Monitoring
Project Number: Oak Avenue

Reported:
04/27/16 15:52

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 AD63154 - General Preparation

Matrix Spike Dup (AD63154-MSD1)

Source: 16D0857-01

Prepared & Analyzed: 04/12/16

Nitrate as N	6.00	0.20	mg/L	5.56	ND	107	80-120	0.705	20	
Chloride	16.0	0.50	mg/L	11.1	4.44	104	80-120	0.216	20	
Nitrate as NO ₃	27	1.0	mg/L	24.7	ND	107	80-120	0.705	20	
Nitrite as N	5.47	0.20	mg/L	5.56	ND	97.5	80-120	0.387	20	
Nitrite as NO ₂	18.0	1.0	mg/L	18.2	ND	97.8	80-120	0.387	20	



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500 Laurel Street
Menlo Park, CA 94025

Project Manager: John Simonetti
Project: WQ Monitoring
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Reported:
04/27/16 15:52

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.
- T-17 Sample analyzed outside of recommended hold time. Client notified.
- 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

[illegible]