



*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

27 April 2016

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: WQ Monitoring

Work Order: 16D0889

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 16:11

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Oak Avenue	16D0889-01	Water	04/09/16 09:00	04/11/16 21:15



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Reported:  
04/27/16 16:11

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
Oak Avenue (16D0889-01)								
Sample Type: Water			Sampled: 04/09/16 09:00					
Metals by EPA 200 Series Methods								
Boron	0.32 mg/L	0.050	1	AD63405	04/19/16 14:08	04/26/16 13:58	EPA 200.7	
Calcium	43 mg/L	1.0	1	AD63405	04/19/16 14:08	04/26/16 13:58	EPA 200.7	
Magnesium	21 mg/L	1.0	1	AD63405	04/19/16 14:08	04/26/16 13:58	EPA 200.7	
Sodium	68 mg/L	1.0	1	AD63405	04/19/16 14:08	04/26/16 13:58	EPA 200.7	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	53 mg/L	0.50	1	AD63386	04/19/16 08:43	04/19/16 11:12	SM4500NH3C	
Bicarbonate	380 mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Biochemical Oxygen Demand	460 mg/L	5.0	1	AD63375	04/13/16 06:00	04/18/16 12:00	SM5210B	T-1, T-16
pH	7.59 pH Units	1.68	1	AD63164	04/11/16 18:00	04/11/16 18:00	SM4500-H+ B	T-14
Specific Conductance (EC)	1000 umhos/cm	20	1	AD63192	04/12/16 17:00	04/12/16 17:00	SM2510B	
Total Dissolved Solids	400 mg/L	10	1	AD63243	04/14/16 09:45	04/18/16 12:00	SM2540C	
Total Suspended Solids	260 mg/L	1.0	1	AD63254	04/14/16 15:00	04/18/16 10:00	SM2540D	
Silica	21 mg/L	2.0	2	AD63291	04/20/16 11:30	04/20/16 16:00	SM4500-SiO2 C	
Bicarbonate Alkalinity as CaCO3	310 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	310 mg/L	5.0	1	AD63111	04/13/16 08:00	04/13/16 17:00	SM2320B	
Total Kjeldahl Nitrogen	71 mg/L	1.0	1	AD63176	04/18/16 14:25	04/20/16 13:20	SM4500-Norg B	
Total Nitrogen	71 mg/L	1.0	1	AD63202	04/13/16 10:05	04/21/16 16:16	SM4500-N	
Phosphorus, total	9.1 mg/L	2.0	5	AD63470	04/21/16 08:30	04/21/16 13:58	SM4500-P E	
Miscellaneous Physical/Conventional Chemistry Parameters								
Sodium Adsorption Ratio-Adj RNA	2.51 NA		1	AD63405	04/19/16 14:08	04/27/16 11:22	SAR	



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Project Number: Oak Avenue

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04/27/16 16:11

	Result	Reporting Limit	Dilution	Batch	Prepared	Analyzed	Method	Note
Oak Avenue (16D0889-01)		Sample Type: Water			Sampled: 04/09/16 09:00			
Anions by EPA Method 300.0								
Chloride	66 mg/L	12	25	AD63154	04/12/16 12:52	04/12/16 12:52	EPA 300.0	
Nitrate as N	ND mg/L	0.20	1	AD63154	04/12/16 12:52	04/12/16 12:52	EPA 300.0	T-17
Nitrate as NO3	ND mg/L	1.0	1	AD63154	04/12/16 12:52	04/12/16 12:52	EPA 300.0	T-17
Nitrite as N	ND mg/L	0.20	1	AD63154	04/12/16 12:52	04/12/16 12:52	EPA 300.0	T-17
Nitrite as NO2	ND mg/L	1.0	1	AD63154	04/12/16 12:52	04/12/16 12:52	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
<b>Batch AD63405 - Metals Digest</b>										
<b>Blank (AD63405-BLK1)</b>				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							
<b>LCS (AD63405-BS1)</b>				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			
<b>Duplicate (AD63405-DUP1)</b>				<b>Source: 16D0899-02</b>		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	
<b>Matrix Spike (AD63405-MS1)</b>				<b>Source: 16D0899-02</b>		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
<b>Matrix Spike (AD63405-MS2)</b>				<b>Source: 16D0791-02</b>		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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04/27/16 16:11

### 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 AD63405 - Metals Digest</b>										
<b>Matrix Spike Dup (AD63405-MSD1)</b>	<b>Source: 16D0899-02</b>			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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04/27/16 16:11

### 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 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	
Bicarbonate Alkalinity as CaCO <sub>3</sub>	22.0	5.0	mg/L		22.0			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	
Total Alkalinity as CaCO <sub>3</sub>	22.0	5.0	mg/L		22.0			0.00	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	
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#### Batch AD63176 - General Prep

##### LCS (AD63176-BS1)

Prepared: 04/13/16 Analyzed: 04/14/16

Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98	99.0	80-120				
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##### LCS Dup (AD63176-BSD1)

Prepared: 04/13/16 Analyzed: 04/14/16

Total Kjeldahl Nitrogen	2.95	1.0	mg/L	2.98	99.0	80-120	0.00	20		
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##### Matrix Spike (AD63176-MS1)

Source: 16D0900-01

Prepared & Analyzed: 04/14/16

Total Kjeldahl Nitrogen	82.7	1.0	mg/L	22.6	55.3	121	75-125			
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##### Matrix Spike Dup (AD63176-MSD1)

Source: 16D0900-01

Prepared & Analyzed: 04/14/16

Total Kjeldahl Nitrogen	82.7	1.0	mg/L	22.6	55.3	121	75-125	0.00	20	
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Project Number: Oak Avenue

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04/27/16 16:11

### 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 AD63192 - General Preparation</b>										
<b>Duplicate (AD63192-DUP1)</b>	<b>Source: 16D0977-01</b>		Prepared & Analyzed: 04/12/16							
Specific Conductance (EC)	153	20	umhos/cm		152			0.656	5	
<b>Batch AD63243 - General Preparation</b>										
<b>Blank (AD63243-BLK1)</b>			Prepared: 04/14/16 Analyzed: 04/18/16							
Total Dissolved Solids	ND	10	mg/L							
<b>Duplicate (AD63243-DUP1)</b>	<b>Source: 16D0912-01</b>		Prepared: 04/14/16 Analyzed: 04/18/16							
Total Dissolved Solids	780	10	mg/L		840			7.41	15	
<b>Duplicate (AD63243-DUP2)</b>	<b>Source: 16D1035-01</b>		Prepared: 04/14/16 Analyzed: 04/18/16							
Total Dissolved Solids	640	10	mg/L		600			6.45	15	
<b>Batch AD63254 - General Preparation</b>										
<b>Blank (AD63254-BLK1)</b>			Prepared: 04/14/16 Analyzed: 04/18/16							
Total Suspended Solids	ND	1.0	mg/L							
<b>Duplicate (AD63254-DUP1)</b>	<b>Source: 16D0889-01</b>		Prepared: 04/14/16 Analyzed: 04/18/16							
Total Suspended Solids	230	1.0	mg/L		264			13.8	30	
<b>Duplicate (AD63254-DUP2)</b>	<b>Source: 16D0892-01</b>		Prepared: 04/14/16 Analyzed: 04/18/16							
Total Suspended Solids	228	1.0	mg/L		218			4.48	30	
<b>Batch AD63291 - General Preparation</b>										
<b>Blank (AD63291-BLK1)</b>			Prepared & Analyzed: 04/20/16							
Silica	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	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AD63291 - General Preparation</b>										
<b>LCS (AD63291-BS1)</b>				Prepared & Analyzed: 04/20/16						
Silica	10.6	1.0	mg/L	10.0		106	85-115			
<b>LCS Dup (AD63291-BSD1)</b>				Prepared & Analyzed: 04/20/16						
Silica	11.0	1.0	mg/L	10.0		110	85-115	4.17	20	
<b>Duplicate (AD63291-DUP1)</b>				<b>Source: 16D1431-01</b>		Prepared & Analyzed: 04/20/16				
Silica	15.8	2.0	mg/L		15.7			0.518	20	
<b>Matrix Spike (AD63291-MS1)</b>				<b>Source: 16D1431-01</b>		Prepared & Analyzed: 04/20/16				
Silica	33.2	2.0	mg/L	20.0	15.7	87.1	80-120			
<b>Matrix Spike Dup (AD63291-MSD1)</b>				<b>Source: 16D1431-01</b>		Prepared & Analyzed: 04/20/16				
Silica	34.7	2.0	mg/L	20.0	15.7	94.9	80-120	4.58	20	
<b>Batch AD63375 - General Preparation</b>										
<b>Blank (AD63375-BLK1)</b>				Prepared: 04/13/16 Analyzed: 04/18/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>Blank (AD63375-BLK2)</b>				Prepared: 04/13/16 Analyzed: 04/18/16						
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>LCS (AD63375-BS1)</b>				Prepared: 04/12/16 Analyzed: 04/17/16						
Biochemical Oxygen Demand	186	5.0	mg/L	200		92.8	84-115			
<b>Duplicate (AD63375-DUP1)</b>				<b>Source: 16D1048-01</b>		Prepared: 04/13/16 Analyzed: 04/18/16				
Biochemical Oxygen Demand	370	5.0	mg/L		356			3.86	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
<b>Batch AD63386 - General Preparation</b>										
<b>Blank (AD63386-BLK1)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	ND	0.50	mg/L							
<b>Blank (AD63386-BLK2)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	ND	0.50	mg/L							
<b>LCS (AD63386-BS1)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110			
<b>LCS Dup (AD63386-BSD1)</b>				Prepared & Analyzed: 04/19/16						
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110	1.81	10	
<b>Matrix Spike (AD63386-MS1)</b>				<b>Source: 16D0958-02</b> Prepared: 04/19/16 Analyzed: 04/20/16						
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115			
<b>Matrix Spike Dup (AD63386-MSD1)</b>				<b>Source: 16D0958-02</b> 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	
<b>Batch AD63470 - General Prep</b>										
<b>Blank (AD63470-BLK1)</b>				Prepared & Analyzed: 04/21/16						
Phosphorus, total	ND	0.040	mg/L							
<b>LCS (AD63470-BS1)</b>				Prepared & Analyzed: 04/21/16						
Phosphorus, total	0.199	0.040	mg/L	0.200		99.6	85-115			
<b>Duplicate (AD63470-DUP1)</b>				<b>Source: 16D0889-01</b> Prepared & Analyzed: 04/21/16						
Phosphorus, total	9.03	2.0	mg/L		9.10			0.734	20	

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Reported:  
04/27/16 16:11

### 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 AD63470 - General Prep</b>										
<b>Matrix Spike (AD63470-MS1)</b>		<b>Source: 16D0889-01</b>			Prepared & Analyzed: 04/21/16					
Phosphorus, total	10.4	2.0	mg/L	2.00	9.10	66.5	70-130			QM-4X
<b>Matrix Spike Dup (AD63470-MSD1)</b>		<b>Source: 16D0889-01</b>			Prepared & Analyzed: 04/21/16					
Phosphorus, total	10.4	2.0	mg/L	2.00	9.10	63.2	70-130	0.640	20	QM-4X



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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 16:11

### 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 AD63154 - General Preparation</b>										
<b>Blank (AD63154-BLK1)</b>				Prepared & Analyzed: 04/12/16						
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 (AD63154-BS1)</b>				Prepared & Analyzed: 04/12/16						
Chloride	11.4	0.50	mg/L	11.1		102	90-110			
Nitrite as NO2	17.3	1.0	mg/L	18.2		95.1	90-110			
Nitrate as NO3	25	1.0	mg/L	24.7		103	90-110			
Nitrate as N	5.71	0.20	mg/L	5.56		103	90-110			
Nitrite as N	5.27	0.20	mg/L	5.56		94.8	90-110			
<b>Duplicate (AD63154-DUP1)</b>				<b>Source: 16D0857-01</b>		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	
<b>Matrix Spike (AD63154-MS1)</b>				<b>Source: 16D0857-01</b>		Prepared & Analyzed: 04/12/16				
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			
Nitrate as N	5.96	0.20	mg/L	5.56	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			
<b>Matrix Spike (AD63154-MS2)</b>				<b>Source: 16D0875-01</b>		Prepared & Analyzed: 04/12/16				
Chloride	91.3	5.0	mg/L	11.1	80.5	96.9	80-120			
Nitrate as NO3	26	10	mg/L	24.7	ND	86.2	80-120			
Nitrate as N	5.87	2.0	mg/L	5.56	ND	86.4	80-120			
Nitrite as NO2	15.3	10	mg/L	18.2	ND	83.9	80-120			
Nitrite as N	4.64	2.0	mg/L	5.56	ND	83.6	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 AD63154 - General Preparation

##### Matrix Spike Dup (AD63154-MSD1)

Source: 16D0857-01

Prepared & Analyzed: 04/12/16

Chloride	16.0	0.50	mg/L	11.1	4.44	104	80-120	0.216	20	
Nitrate as NO3	27	1.0	mg/L	24.7	ND	107	80-120	0.705	20	
Nitrite as NO2	18.0	1.0	mg/L	18.2	ND	97.8	80-120	0.387	20	
Nitrite as N	5.47	0.20	mg/L	5.56	ND	97.5	80-120	0.387	20	
Nitrate as N	6.00	0.20	mg/L	5.56	ND	107	80-120	0.705	20	



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#### 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-1	This sample was received outside recommended holding time.
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-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

# Work Order Chain of Custody Record

Lab No. 16D0889 Page      of     

Company/Name: <b>West Bay Sanitary District</b>		Project ID: <b>WQ Monitoring</b>		Signature below authorizes work under terms stated on reverse side.																									
Mailing Address: 500 Laurel Street Menlo Park, CA 94025		Project No: <b>Oak Avenue</b>		<b>Analysis Request</b>															<b>Sample Notes</b>		<b>TAT</b>								
Project Contact & Email (Hardcopy or PDF to): John Simonetti jsimonetti@westbaysanitary.org		PO#		<div style="display: flex; flex-direction: row;"> <div style="flex: 1; text-align: center;">                 24 hr <input type="radio"/>                  48 hr <input type="radio"/>                  Lab Approval Required <input type="radio"/>                  1 wk <input type="radio"/>                  2 wk (standard) <input type="radio"/> </div> <div style="flex: 1; text-align: center;">                 Lab Approval Required For Rush <input type="radio"/> </div> </div>																									
Phone/Fax: <b>650-321-0281</b>		Site Contact: <b>John Simonetti</b>																											
Field Sampler - Print Name & Signature 		Sample Collection		Container		Preservative		Matrix																					
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	Ammonia, Phosphorus	Total Nitrogen	Chloride, EC, NO2, NO3	Alkalinity, Bicarbonate	SAR Adjusted Calculation	Silica	TDS	TSS		
Oak Avenue		4/4/16 0900		4					1	1				2	x		x	x	x	x	x	x	x	x	x	x	x		
					</																								