



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

27 May 2015

West Bay Sanitary District

Attn: Mark Pratulon

500 Laurel Street

Menlo Park, CA 94025

RE: Reclaimed Study

Work Order: 15E0913

Enclosed are the results of analyses for samples received by the laboratory on 05/08/15 22:50. 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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## CHEMICAL EXAMINATION REPORT

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West Bay Sanitary District  
500 Laurel Street  
Menlo Park, CA 94025  
Attn: Mark Praturlon

Report Date: 05/27/15 15:41  
Project No: -  
Project ID: Reclaimed Study

Order Number

15E0913

Receipt Date/Time

05/08/2015 22:50

Client Code

WESTBAY

Client PO/Reference

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
050715-A Alpine Dr.	15E0913-01	Water	05/07/15 00:00	05/08/15 22:50
050715-B Sand Hill Rd.	15E0913-02	Water	05/07/15 00:00	05/08/15 22:50



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### Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
050715-A Alpine Dr. (15E0913-01)								
			Sample Type: Water		Sampled: 05/07/15 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AE51854	05/18/15 12:42	05/20/15 16:23	1	0.29 mg/L	0.050	
Calcium	"	"	"	"	"	20 "	1.0	
Magnesium	"	"	"	"	"	5.8 "	1.0	
Sodium	"	"	"	"	"	57 "	1.0	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AE51409	05/14/15 08:07	05/15/15 13:00	1	97 mg/L	0.50	
Biochemical Oxygen Demand	SM5210B	AE51354	05/08/15 17:30	05/13/15 12:00	"	230 "	5.0	
Total Dissolved Solids	SM2540C	AE51234	05/12/15 13:30	05/15/15 08:45	"	410 "	10	
Total Suspended Solids	SM2540D	AE51243	05/12/15 09:55	05/14/15 12:37	"	310 "	1.0	
Silica	SM4500-SiO2 C	AE51362	05/13/15 14:00	05/13/15 16:45	"	22 "	1.0	
Total Kjeldahl Nitrogen	SM4500-Norg B	AE52108	05/22/15 06:58	05/26/15 12:33	"	110 "	1.0	
Total Nitrogen	SM4500-N	AE51501	05/15/15 05:34	05/27/15 07:22	"	110 "	1.0	
Phosphorus, total	SM4500-P E	AE52027	05/20/15 08:00	05/20/15 13:27	5	15 "	2.0	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AE51138	05/12/15 15:24	05/12/15 15:24	10	59 mg/L	5.0	
Nitrate as N	"	"	05/12/15 15:41	05/12/15 15:41	1	ND "	0.20	T-2
Nitrite as N	"	"	"	"	"	ND "	0.20	T-2
050715-B Sand Hill Rd. (15E0913-02)								
			Sample Type: Water		Sampled: 05/07/15 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AE51854	05/18/15 12:42	05/20/15 16:28	1	0.18 mg/L	0.050	
Calcium	"	"	"	"	"	15 "	1.0	
Magnesium	"	"	"	"	"	6.4 "	1.0	
Sodium	"	"	"	"	"	58 "	1.0	



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### Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
050715-B Sand Hill Rd. (15E0913-02)			Sample Type: Water		Sampled: 05/07/15 00:00			
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AE51409	05/14/15 08:07	05/15/15 13:00	1	65 mg/L	0.50	
Biochemical Oxygen Demand	SM5210B	AE51354	05/08/15 17:30	05/13/15 12:00	"	220 "	5.0	
Total Dissolved Solids	SM2540C	AE51234	05/12/15 13:30	05/15/15 08:45	"	400 "	10	
Total Suspended Solids	SM2540D	AE51243	05/12/15 09:55	05/14/15 12:37	"	260 "	1.0	
Silica	SM4500-SiO2 C	AE51362	05/13/15 14:00	05/13/15 16:45	"	19 "	1.0	
Total Kjeldahl Nitrogen	SM4500-Norg B	AE52108	05/22/15 06:58	05/26/15 09:03	"	62 "	1.0	
Total Nitrogen	SM4500-N	AE51501	05/15/15 05:34	05/27/15 07:22	"	62 "	1.0	
Phosphorus, total	SM4500-P E	AE52027	05/20/15 08:00	05/20/15 13:27	5	7.7 "	2.0	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AE51138	05/12/15 15:57	05/12/15 15:57	10	65 mg/L	5.0	
Nitrate as N	"	"	05/12/15 16:13	05/12/15 16:13	1	ND "	0.20	T-2
Nitrite as N	"	"	"	"	"	ND "	0.20	T-2



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

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AE51854 - Metals Digest</b>										
<b>Blank (AE51854-BLK1)</b>				Prepared: 05/18/15 Analyzed: 05/19/15						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	"							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
<b>LCS (AE51854-BS1)</b>				Prepared: 05/18/15 Analyzed: 05/20/15						
Boron	0.447	0.050	mg/L	0.400		112	85-115			
Calcium	8.21	1.0	"	8.00		103	85-115			
Magnesium	8.33	1.0	"	8.00		104	85-115			
Sodium	8.18	1.0	"	8.00		102	85-115			
<b>Duplicate (AE51854-DUP1)</b>				<b>Source: 15E1468-01</b>		Prepared: 05/18/15 Analyzed: 05/20/15				
Boron	0.146	0.050	mg/L		0.136			6.64	20	
Calcium	30.8	1.0	"		29.9			2.94	20	
Magnesium	9.22	1.0	"		7.84			16.1	20	
Sodium	28.9	1.0	"		31.7			9.13	20	
<b>Matrix Spike (AE51854-MS1)</b>				<b>Source: 15E1468-01</b>		Prepared: 05/18/15 Analyzed: 05/20/15				
Boron	0.556	0.050	mg/L	0.400	0.136	105	70-130			
Calcium	38.6	1.0	"	8.00	29.9	109	70-130			
Magnesium	14.2	1.0	"	8.00	7.84	79.9	70-130			
Sodium	36.3	1.0	"	8.00	31.7	58.0	70-130			QM-4X
<b>Matrix Spike (AE51854-MS2)</b>				<b>Source: 15E1012-01</b>		Prepared: 05/18/15 Analyzed: 05/20/15				
Boron	1.43	0.050	mg/L	0.400	1.03	99.5	70-130			
Calcium	27.4	1.0	"	8.00	20.9	81.0	70-130			
Magnesium	13.4	1.0	"	8.00	7.51	74.1	70-130			
Sodium	121	1.0	"	8.00	126	NR	70-130			QM-4X



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

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AE51854 - Metals Digest</b>										
<b>Matrix Spike Dup (AE51854-MSD1)</b>		<b>Source: 15E1468-01</b>		Prepared: 05/18/15 Analyzed: 05/20/15						
Boron	0.539	0.050	mg/L	0.400	0.136	101	70-130	3.08	20	
Calcium	36.5	1.0	"	8.00	29.9	81.9	70-130	5.72	20	
Magnesium	13.6	1.0	"	8.00	7.84	72.4	70-130	4.28	20	
Sodium	34.9	1.0	"	8.00	31.7	40.5	70-130	3.93	20	QM-4X



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### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AE51234 - General Preparation</b>										
<b>Blank (AE51234-BLK1)</b>				Prepared: 05/12/15 Analyzed: 05/15/15						
Total Dissolved Solids	ND	10	mg/L							
<b>Duplicate (AE51234-DUP1)</b>				Source: 15E0789-01 Prepared: 05/12/15 Analyzed: 05/15/15						
Total Dissolved Solids	852	10	mg/L		876			2.78	15	
<b>Duplicate (AE51234-DUP2)</b>				Source: 15E0789-02 Prepared: 05/12/15 Analyzed: 05/15/15						
Total Dissolved Solids	768	10	mg/L		716			7.01	15	
<b>Batch AE51243 - General Preparation</b>										
<b>Blank (AE51243-BLK1)</b>				Prepared: 05/12/15 Analyzed: 05/14/15						
Total Suspended Solids	ND	1.0	mg/L							
<b>Duplicate (AE51243-DUP1)</b>				Source: 15E0822-02 Prepared: 05/12/15 Analyzed: 05/14/15						
Total Suspended Solids	172	1.0	mg/L		164			4.76	30	
<b>Duplicate (AE51243-DUP2)</b>				Source: 15E0913-02 Prepared: 05/12/15 Analyzed: 05/14/15						
Total Suspended Solids	260	1.0	mg/L		262			0.766	30	
<b>Batch AE51354 - General Preparation</b>										
<b>Blank (AE51354-BLK1)</b>				Prepared: 05/08/15 Analyzed: 05/13/15						
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>Blank (AE51354-BLK2)</b>				Prepared: 05/08/15 Analyzed: 05/13/15						
Biochemical Oxygen Demand	ND	5.0	mg/L							



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Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AE51354 - General Preparation</b>										
<b>LCS (AE51354-BS1)</b>				Prepared: 05/06/15 Analyzed: 05/11/15						
Biochemical Oxygen Demand	199	5.0	mg/L	200		99.7	84-115			
<b>Duplicate (AE51354-DUP1)</b>				<b>Source: 15E0798-01</b>		Prepared: 05/08/15 Analyzed: 05/13/15				
Biochemical Oxygen Demand	ND	5.0	mg/L		ND				30	
<b>Batch AE51362 - General Preparation</b>										
<b>Blank (AE51362-BLK1)</b>				Prepared & Analyzed: 05/13/15						
Silica	ND	1.0	mg/L							
<b>LCS (AE51362-BS1)</b>				Prepared & Analyzed: 05/13/15						
Silica	10.3	1.0	mg/L	10.0		103	80-120			
<b>LCS Dup (AE51362-BSD1)</b>				Prepared & Analyzed: 05/13/15						
Silica	10.4	1.0	mg/L	10.0		104	80-120	1.59	15	
<b>Duplicate (AE51362-DUP1)</b>				<b>Source: 15E1021-02</b>		Prepared & Analyzed: 05/13/15				
Silica	19.6	1.0	mg/L		19.4			1.27	20	
<b>Matrix Spike (AE51362-MS1)</b>				<b>Source: 15E1021-02</b>		Prepared & Analyzed: 05/13/15				
Silica	23.3	1.0	mg/L	5.00	19.4	77.7	85-115			QM-05
<b>Matrix Spike Dup (AE51362-MSD1)</b>				<b>Source: 15E1021-02</b>		Prepared & Analyzed: 05/13/15				
Silica	23.4	1.0	mg/L	5.00	19.4	80.1	85-115	0.531	15	QM-05
<b>Batch AE51409 - General Preparation</b>										
<b>Blank (AE51409-BLK1)</b>				Prepared: 05/14/15 Analyzed: 05/15/15						
Ammonia as NH <sub>3</sub>	ND	0.50	mg/L							





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### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AE51409 - General Preparation</b>										
<b>Blank (AE51409-BLK2)</b>				Prepared: 05/14/15 Analyzed: 05/15/15						
Ammonia as NH3	ND	0.50	mg/L							
<b>LCS (AE51409-BS1)</b>				Prepared: 05/14/15 Analyzed: 05/15/15						
Ammonia as NH3	5.75	0.50	mg/L	6.10		94.2	90-110			
<b>LCS Dup (AE51409-BSD1)</b>				Prepared: 05/14/15 Analyzed: 05/15/15						
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110	1.83	10	
<b>Matrix Spike (AE51409-MS1)</b>				<b>Source: 15E0994-01</b>		Prepared: 05/14/15 Analyzed: 05/15/15				
Ammonia as NH3	11.5	0.50	mg/L	12.2	ND	94.2	85-115			
<b>Matrix Spike Dup (AE51409-MSD1)</b>				<b>Source: 15E0994-01</b>		Prepared: 05/14/15 Analyzed: 05/15/15				
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	85-115	3.64	20	
<b>Batch AE52027 - General Prep</b>										
<b>Blank (AE52027-BLK1)</b>				Prepared & Analyzed: 05/20/15						
Phosphorus, total	ND	0.040	mg/L							
<b>LCS (AE52027-BS1)</b>				Prepared & Analyzed: 05/20/15						
Phosphorus, total	0.196	0.040	mg/L	0.200		98.1	85-115			
<b>Duplicate (AE52027-DUP1)</b>				<b>Source: 15E1233-01</b>		Prepared & Analyzed: 05/20/15				
Phosphorus, total	3.95	0.80	mg/L		3.98			0.671	20	
<b>Matrix Spike (AE52027-MS1)</b>				<b>Source: 15E1233-01</b>		Prepared & Analyzed: 05/20/15				
Phosphorus, total	5.55	0.80	mg/L	2.00	3.98	78.4	70-130			



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<b>Batch AE52027 - General Prep</b>										
<b>Matrix Spike Dup (AE52027-MSD1)</b>		<b>Source: 15E1233-01</b>		Prepared & Analyzed: 05/20/15						
Phosphorus, total	5.52	0.80	mg/L	2.00	3.98	77.0	70-130	0.481	20	
<b>Batch AE52108 - General Prep</b>										
<b>LCS (AE52108-BS1)</b>		Prepared: 05/21/15 Analyzed: 05/22/15								
Total Kjeldahl Nitrogen	3.13	1.0	mg/L	2.98		105	80-120			
<b>LCS Dup (AE52108-BSD1)</b>		Prepared: 05/21/15 Analyzed: 05/22/15								
Total Kjeldahl Nitrogen	3.13	1.0	mg/L	2.98		105	80-120	0.00	20	
<b>Matrix Spike (AE52108-MS1)</b>		<b>Source: 15E0856-01</b>		Prepared & Analyzed: 05/22/15						
Total Kjeldahl Nitrogen	4.52	1.0	mg/L	2.98	2.10	81.0	75-125			
<b>Matrix Spike Dup (AE52108-MSD1)</b>		<b>Source: 15E0856-01</b>		Prepared & Analyzed: 05/22/15						
Total Kjeldahl Nitrogen	4.52	1.0	mg/L	2.98	2.10	81.0	75-125	0.00	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

## CHEMICAL EXAMINATION REPORT

Page 10 of 11

West Bay Sanitary District  
500 Laurel Street  
Menlo Park, CA 94025  
Attn: Mark Praturlon

Report Date: 05/27/15 15:41  
Project No: -  
Project ID: Reclaimed Study

Order Number  
15E0913

Receipt Date/Time  
05/08/2015 22:50

Client Code  
WESTBAY

Client PO/Reference

### Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
<b>Batch AE51138 - General Preparation</b>										
<b>Blank (AE51138-BLK1)</b>				Prepared & Analyzed: 05/12/15						
Nitrate as N	ND	0.20	mg/L							
Nitrite as N	ND	0.20	"							
Chloride	ND	0.50	"							
<b>LCS (AE51138-BS1)</b>				Prepared & Analyzed: 05/12/15						
Nitrite as N	5.43	0.20	mg/L	5.56		97.8	90-110			
Nitrate as N	5.51	0.20	"	5.56		99.1	90-110			
Chloride	11.0	0.50	"	11.1		99.4	90-110			
<b>Duplicate (AE51138-DUP1)</b>				<b>Source: 15E0975-01</b>		Prepared & Analyzed: 05/12/15				
Chloride	5.71	0.50	mg/L		5.71			0.0175	20	
Nitrite as N	ND	0.20	"		ND				20	
Nitrate as N	ND	0.20	"		ND				20	
<b>Matrix Spike (AE51138-MS1)</b>				<b>Source: 15E0975-01</b>		Prepared & Analyzed: 05/12/15				
Chloride	17.2	0.50	mg/L	11.1	5.71	103	80-120			
Nitrate as N	5.61	0.20	"	5.56	ND	101	80-120			
Nitrite as N	5.34	0.20	"	5.56	ND	96.1	80-120			
<b>Matrix Spike (AE51138-MS2)</b>				<b>Source: 15E1028-01</b>		Prepared & Analyzed: 05/13/15				
Chloride	18.8	2.5	mg/L	11.1	7.94	97.3	80-120			
Nitrate as N	5.24	1.0	"	5.56	ND	93.6	80-120			
Nitrite as N	5.24	1.0	"	5.56	ND	94.3	80-120			
<b>Matrix Spike Dup (AE51138-MSD1)</b>				<b>Source: 15E0975-01</b>		Prepared & Analyzed: 05/12/15				
Chloride	17.2	0.50	mg/L	11.1	5.71	103	80-120	0.129	20	
Nitrate as N	5.62	0.20	"	5.56	ND	101	80-120	0.139	20	
Nitrite as N	5.43	0.20	"	5.56	ND	97.7	80-120	1.69	20	



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### 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-2 Sample analyzed outside of recommended holding time per client.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- PQL Practical Quantitation Limit

Company/Name: West Bay Sanitary District		Project ID:		Signature below authorizes work under terms stated on reverse side.										Sample Notes		TAT													
Mailing Address:		Project No:												3-8		<input type="radio"/> 24 hr <input type="radio"/> 48 hr <input type="radio"/> Lab Approval <input type="radio"/> Required <input type="radio"/> 1 wk <input type="radio"/> 2 wk (standard)													
Project Contact & Email (Hardcopy or PDF to): Mark Praturion <a href="mailto:mpaturion@westbaysanitary.org">mpaturion@westbaysanitary.org</a>		PO#																											
Phone/Fax:		Site Contact:																											
Field Sampler - Print Name & Signature		Sampling		Container		Preservative		Matrix																					
Sample Identification		Date		Time		40ml Vial		Poly		Glass		Sieve						Other		H2SO4		HNO3		HCL		Other		Water	
CS0715-A		5/7		24k																									
Diquat 2F																													
CS0715-B		5/7		24k																									
Suez Hill 2																													