



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

28 May 2015

West Bay Sanitary District

Attn: Mark Pratulon

500 Laurel Street

Menlo Park, CA 94025

RE: Reclaimed Study

Work Order: 15E1205

Enclosed are the results of analyses for samples received by the laboratory on 05/12/15 22:40. 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

Page 1 of 11

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

Report Date: 05/28/15 09:13
Project No: -
Project ID: Reclaimed Study

Order Number
15E1205

Receipt Date/Time
05/12/2015 22:40

Client Code
WESTBAY

Client PO/Reference

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
051115-A Alpine Rd	15E1205-01	Water	05/12/15 00:00	05/12/15 22:40
051115-B Sand Hill Rd.	15E1205-02	Water	05/12/15 00:00	05/12/15 22:40



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	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
051115-A Alpine Rd (15E1205-01)								
			Sample Type: Water		Sampled: 05/12/15 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AE51937	05/19/15 10:22	05/20/15 15:55	1	0.20 mg/L	0.050	
Calcium	"	"	"	"	"	28 "	1.0	
Magnesium	"	"	"	"	"	8.9 "	1.0	
Sodium	"	"	"	"	"	93 "	1.0	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AE51510	05/15/15 08:00	05/15/15 17:00	1	50 mg/L	0.50	
Biochemical Oxygen Demand	SM5210B	AE51404	05/14/15 07:15	05/19/15 10:30	"	340 "	5.0	T-3
Total Dissolved Solids	SM2540C	AE51512	05/15/15 10:15	05/19/15 09:00	"	480 "	10	
Total Suspended Solids	SM2540D	AE51423	05/14/15 15:00	05/18/15 15:00	"	470 "	1.0	
Silica	SM4500-SiO2 C	AE51362	05/13/15 14:00	05/13/15 16:45	"	20 "	1.0	
Total Kjeldahl Nitrogen	SM4500-Norg B	AE52233	05/26/15 07:46	05/27/15 10:38	"	58 "	1.0	
Total Nitrogen	SM4500-N	AE51501	05/15/15 05:34	05/28/15 07:23	"	58 "	1.0	
Phosphorus, total	SM4500-P E	AE52027	05/20/15 08:00	05/20/15 13:27	5	7.2 "	2.0	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AE51352	05/13/15 15:17	05/13/15 15:17	10	140 mg/L	5.0	
Nitrate as N	"	"	05/13/15 15:33	05/13/15 15:33	1	ND "	0.20	
Nitrite as N	"	"	"	"	"	ND "	0.20	
051115-B Sand Hill Rd. (15E1205-02)								
			Sample Type: Water		Sampled: 05/12/15 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AE51937	05/19/15 10:22	05/20/15 15:59	1	0.21 mg/L	0.050	
Calcium	"	"	"	"	"	31 "	1.0	
Magnesium	"	"	"	"	"	10 "	1.0	
Sodium	"	"	"	"	"	110 "	1.0	



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	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
051115-B Sand Hill Rd. (15E1205-02)			Sample Type: Water		Sampled: 05/12/15 00:00			
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AE51510	05/15/15 08:00	05/15/15 17:00	1	52 mg/L	0.50	T-3
Biochemical Oxygen Demand	SM5210B	AE51404	05/14/15 07:15	05/19/15 10:30	"	400 "	5.0	
Total Dissolved Solids	SM2540C	AE51512	05/15/15 10:15	05/19/15 09:00	"	320 "	10	
Total Suspended Solids	SM2540D	AE51423	05/14/15 15:00	05/18/15 15:00	"	370 "	1.0	
Silica	SM4500-SiO2 C	AE51362	05/13/15 14:00	05/13/15 16:45	"	17 "	1.0	
Total Kjeldahl Nitrogen	SM4500-Norg B	AE52233	05/26/15 07:46	05/27/15 10:38	"	64 "	1.0	
Total Nitrogen	SM4500-N	AE51501	05/15/15 05:34	05/28/15 07:23	"	65 "	1.0	
Phosphorus, total	SM4500-P E	AE52027	05/20/15 08:00	05/20/15 13:27	5	7.3 "	2.0	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AE51352	05/15/15 12:51	05/15/15 12:51	10	61 mg/L	5.0	
Nitrate as N	"	"	05/13/15 15:49	05/13/15 15:49	1	ND "	0.20	
Nitrite as N	"	"	"	"	"	ND "	0.20	



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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
Batch AE51937 - Metals Digest										
Blank (AE51937-BLK1)				Prepared: 05/19/15 Analyzed: 05/21/15						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	"							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (AE51937-BS1)				Prepared: 05/19/15 Analyzed: 05/20/15						
Boron	0.401	0.050	mg/L	0.400		100	85-115			
Calcium	7.26	1.0	"	8.00		90.8	85-115			
Magnesium	7.25	1.0	"	8.00		90.6	85-115			
Sodium	7.28	1.0	"	8.00		91.0	85-115			
Duplicate (AE51937-DUP1)				Source: 15E1043-01		Prepared: 05/19/15 Analyzed: 05/20/15				
Boron	0.0809	0.050	mg/L		0.0752			7.37	20	
Calcium	20.3	1.0	"		20.2			0.216	20	
Magnesium	3.98	1.0	"		3.96			0.675	20	
Sodium	15.9	1.0	"		15.9			0.152	20	
Matrix Spike (AE51937-MS1)				Source: 15E1043-01		Prepared: 05/19/15 Analyzed: 05/21/15				
Boron	0.434	0.050	mg/L	0.400	0.0752	89.8	70-130			
Calcium	26.0	1.0	"	8.00	20.2	72.4	70-130			
Magnesium	10.9	1.0	"	8.00	3.96	86.6	70-130			
Sodium	22.6	1.0	"	8.00	15.9	84.7	70-130			
Matrix Spike (AE51937-MS2)				Source: 15E1340-01		Prepared: 05/19/15 Analyzed: 05/20/15				
Boron	1.95	0.050	mg/L	0.400	1.42	131	70-130			QM-01
Calcium	37.1	1.0	"	8.00	26.7	131	70-130			QM-01
Magnesium	28.5	1.0	"	8.00	19.2	116	70-130			
Sodium	23.4	1.0	"	8.00	14.5	111	70-130			

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	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE51937 - Metals Digest										
Matrix Spike Dup (AE51937-MSD1)		Source: 15E1043-01		Prepared: 05/19/15 Analyzed: 05/20/15						
Boron	0.473	0.050	mg/L	0.400	0.0752	99.4	70-130	8.41	20	
Calcium	27.5	1.0	"	8.00	20.2	91.6	70-130	5.73	20	
Magnesium	11.7	1.0	"	8.00	3.96	97.2	70-130	7.49	20	
Sodium	23.2	1.0	"	8.00	15.9	91.5	70-130	2.40	20	



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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
Batch AE51362 - General Preparation										
Blank (AE51362-BLK1)				Prepared & Analyzed: 05/13/15						
Silica	ND	1.0	mg/L							
LCS (AE51362-BS1)				Prepared & Analyzed: 05/13/15						
Silica	10.3	1.0	mg/L	10.0		103	80-120			
LCS Dup (AE51362-BSD1)				Prepared & Analyzed: 05/13/15						
Silica	10.4	1.0	mg/L	10.0		104	80-120	1.59	15	
Duplicate (AE51362-DUP1)				Source: 15E1021-02		Prepared & Analyzed: 05/13/15				
Silica	19.6	1.0	mg/L		19.4			1.27	20	
Matrix Spike (AE51362-MS1)				Source: 15E1021-02		Prepared & Analyzed: 05/13/15				
Silica	23.3	1.0	mg/L	5.00	19.4	77.7	85-115			QM-05
Matrix Spike Dup (AE51362-MSD1)				Source: 15E1021-02		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
Batch AE51404 - General Preparation										
Blank (AE51404-BLK1)				Prepared: 05/14/15 Analyzed: 05/19/15						
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AE51404-BLK2)				Prepared: 05/14/15 Analyzed: 05/19/15						
Biochemical Oxygen Demand	ND	5.0	mg/L							
LCS (AE51404-BS1)				Prepared: 05/13/15 Analyzed: 05/18/15						
Biochemical Oxygen Demand	196	5.0	mg/L	200		98.0	84-115			



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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
Batch AE51404 - General Preparation										
Duplicate (AE51404-DUP1)	Source: 15E1115-01		Prepared: 05/14/15 Analyzed: 05/19/15							
Biochemical Oxygen Demand	416	5.0	mg/L		439			5.38	30	
Batch AE51423 - General Preparation										
Blank (AE51423-BLK1)			Prepared: 05/14/15 Analyzed: 05/18/15							
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AE51423-DUP1)	Source: 15E1197-01		Prepared: 05/14/15 Analyzed: 05/18/15							
Total Suspended Solids	338	1.0	mg/L		370			9.04	30	
Duplicate (AE51423-DUP2)	Source: 15E1265-01		Prepared: 05/14/15 Analyzed: 05/18/15							
Total Suspended Solids	224	1.0	mg/L		208			7.41	30	
Batch AE51510 - General Preparation										
Blank (AE51510-BLK1)			Prepared & Analyzed: 05/15/15							
Ammonia as NH3	ND	0.50	mg/L							
LCS (AE51510-BS1)			Prepared & Analyzed: 05/15/15							
Ammonia as NH3	5.85	0.50	mg/L	6.10		96.0	90-110			
LCS Dup (AE51510-BSD1)			Prepared & Analyzed: 05/15/15							
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110	1.81	10	
Matrix Spike (AE51510-MS1)	Source: 15E1174-03		Prepared & Analyzed: 05/15/15							
Ammonia as NH3	11.7	0.50	mg/L	12.2	ND	96.0	85-115			



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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
Batch AE51510 - General Preparation										
Matrix Spike Dup (AE51510-MSD1)		Source: 15E1174-03		Prepared & Analyzed: 05/15/15						
Ammonia as NH3	11.5	0.50	mg/L	12.2	ND	94.2	85-115	1.84	20	
Batch AE51512 - General Preparation										
Blank (AE51512-BLK1)		Prepared: 05/15/15 Analyzed: 05/19/15								
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AE51512-DUP1)		Source: 15E1391-01		Prepared: 05/15/15 Analyzed: 05/19/15						
Total Dissolved Solids	324	10	mg/L		348			7.14	15	
Duplicate (AE51512-DUP2)		Source: 15E1420-02		Prepared: 05/15/15 Analyzed: 05/19/15						
Total Dissolved Solids	1120	10	mg/L		1110			0.359	15	
Batch AE52027 - General Prep										
Blank (AE52027-BLK1)		Prepared & Analyzed: 05/20/15								
Phosphorus, total	ND	0.040	mg/L							
LCS (AE52027-BS1)		Prepared & Analyzed: 05/20/15								
Phosphorus, total	0.196	0.040	mg/L	0.200		98.1	85-115			
Duplicate (AE52027-DUP1)		Source: 15E1233-01		Prepared & Analyzed: 05/20/15						
Phosphorus, total	3.95	0.80	mg/L		3.98			0.671	20	
Matrix Spike (AE52027-MS1)		Source: 15E1233-01		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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Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE52027 - General Prep										
Matrix Spike Dup (AE52027-MSD1)		Source: 15E1233-01		Prepared & Analyzed: 05/20/15						
Phosphorus, total	5.52	0.80	mg/L	2.00	3.98	77.0	70-130	0.481	20	
Batch AE52233 - General Prep										
LCS (AE52233-BS1)		Prepared: 05/22/15 Analyzed: 05/26/15								
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120			
LCS Dup (AE52233-BSD1)		Prepared: 05/22/15 Analyzed: 05/26/15								
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120	0.00	20	
Matrix Spike (AE52233-MS1)		Source: 15E1229-01		Prepared: 05/22/15 Analyzed: 05/26/15						
Total Kjeldahl Nitrogen	3.96	1.0	mg/L	2.98	1.14	94.8	75-125			
Matrix Spike Dup (AE52233-MSD1)		Source: 15E1229-01		Prepared: 05/22/15 Analyzed: 05/26/15						
Total Kjeldahl Nitrogen	3.96	1.0	mg/L	2.98	1.14	94.8	75-125	0.00	20	



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Anions by EPA Method 300.0 - Quality Control

Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AE51352 - General Preparation										
Blank (AE51352-BLK1)				Prepared & Analyzed: 05/13/15						
Chloride	ND	0.50	mg/L							
Nitrite as N	ND	0.20	"							
Nitrate as N	ND	0.20	"							
LCS (AE51352-BS1)				Prepared & Analyzed: 05/13/15						
Chloride	11.0	0.50	mg/L	11.1		99.2	90-110			
Nitrite as N	5.40	0.20	"	5.56		97.2	90-110			
Nitrate as N	5.47	0.20	"	5.56		98.4	90-110			
Duplicate (AE51352-DUP1)				Source: 15E1188-01		Prepared & Analyzed: 05/13/15				
Nitrite as N	ND	1.0	mg/L		ND				20	
Nitrate as N	ND	1.0	"		ND				20	
Chloride	39.5	2.5	"		38.9			1.43	20	
Matrix Spike (AE51352-MS1)				Source: 15E1188-01		Prepared & Analyzed: 05/13/15				
Chloride	50.9	2.5	mg/L	11.1	38.9	108	80-120			
Nitrate as N	5.72	1.0	"	5.56	ND	94.2	80-120			
Nitrite as N	5.53	1.0	"	5.56	ND	99.5	80-120			
Matrix Spike (AE51352-MS2)				Source: 15E1260-05		Prepared & Analyzed: 05/13/15				
Nitrate as N	5.70	1.0	mg/L	5.56	ND	101	80-120			
Chloride	19.8	2.5	"	11.1	8.49	102	80-120			
Nitrite as N	5.52	1.0	"	5.56	ND	99.3	80-120			
Matrix Spike Dup (AE51352-MSD1)				Source: 15E1188-01		Prepared & Analyzed: 05/13/15				
Chloride	51.0	2.5	mg/L	11.1	38.9	108	80-120	0.109	20	
Nitrate as N	5.71	1.0	"	5.56	ND	94.0	80-120	0.263	20	
Nitrite as N	5.53	1.0	"	5.56	ND	99.6	80-120	0.100	20	



Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

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

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

Report Date: 05/28/15 09:13
Project No: -
Project ID: Reclaimed Study

Order Number

15E1205

Receipt Date/Time

05/12/2015 22:40

Client Code

WESTBAY

Client PO/Reference

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.
- T-3 Client did not specify sampling time.
- 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

[illegible]

- Silica – \$25
 - Sodium – \$15
 - Calcium – \$15
 - Magnesium – \$15
 - Total Dissolved Solids (TDS) – \$25
 - Boron – \$15
 - Chloride – \$25
 - Total Nitrogen (TN) – \$100
 - Ammonia – \$30
 - Total Kjeldhal Nitrogen (TKN) – included with total nitrogen cost
 - Total Phosphorous – \$30
 - BOD – \$35
 - TSS – \$25