



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

04 June 2015

West Bay Sanitary District

Attn: Mark Pratlun

500 Laurel Street

Menlo Park, CA 94025

RE: Reclaimed Study

Work Order: 15E1851

Enclosed are the results of analyses for samples received by the laboratory on 05/19/15 22:45. 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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CHEMICAL EXAMINATION REPORT

Page 1 of 11

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

Report Date: 06/04/15 10:39
Project No: -
Project ID: Reclaimed Study

Order Number

15E1851

Receipt Date/Time

05/19/2015 22:45

Client Code

WESTBAY

Client PO/Reference

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
051915-A Alpine Dr.	15E1851-01	Water	05/19/15 00:00	05/19/15 22:45
051915-B Sand Hill Rd	15E1851-02	Water	05/19/15 00:00	05/19/15 22:45



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Page 2 of 11

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	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
051915-A Alpine Dr. (15E1851-01)								
			Sample Type: Water		Sampled: 05/19/15 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AE52830	05/28/15 09:52	06/03/15 13:07	1	0.25 mg/L	0.050	
Calcium	"	"	"	"	"	26 "	1.0	
Magnesium	"	"	"	"	"	7.7 "	1.0	
Sodium	"	"	"	"	"	64 "	1.0	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AE52729	05/27/15 08:00	05/27/15 17:00	1	54 mg/L	0.50	
Biochemical Oxygen Demand	SM5210B	AE52111	05/21/15 07:00	05/26/15 08:00	"	460 "	5.0	T-3
Total Dissolved Solids	SM2540C	AE52116	05/21/15 10:15	05/26/15 13:00	"	410 "	10	
Total Suspended Solids	SM2540D	AE52130	05/21/15 10:00	05/26/15 10:00	"	720 "	1.0	
Silica	SM4500-SiO2 C	AE52143	05/21/15 15:00	05/21/15 17:30	"	19 "	1.0	
Total Kjeldahl Nitrogen	SM4500-Norg B	AE52912	06/01/15 08:52	06/01/15 13:08	"	74 "	1.0	
Total Nitrogen	SM4500-N	AE52835	05/28/15 11:19	06/01/15 16:30	"	74 "	1.0	
Phosphorus, total	SM4500-P E	AF50228	06/02/15 08:10	06/02/15 10:52	5	9.7 "	2.0	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AE51980	05/20/15 17:49	05/20/15 17:49	10	67 mg/L	5.0	
Nitrate as N	"	"	05/20/15 18:05	05/20/15 18:05	1	ND "	0.20	
Nitrite as N	"	"	"	"	"	ND "	0.20	
051915-B Sand Hill Rd (15E1851-02)								
			Sample Type: Water		Sampled: 05/19/15 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AE52830	05/28/15 09:52	06/03/15 13:11	1	0.27 mg/L	0.050	
Calcium	"	"	"	"	"	24 "	1.0	
Magnesium	"	"	"	"	"	27 "	1.0	
Sodium	"	"	"	"	"	46 "	1.0	



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	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
051915-B Sand Hill Rd (15E1851-02)			Sample Type: Water		Sampled: 05/19/15 00:00			
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AE52729	05/27/15 08:00	05/27/15 17:00	1	57 mg/L	0.50	T-3
Biochemical Oxygen Demand	SM5210B	AE52111	05/21/15 07:00	05/26/15 08:00	"	360 "	5.0	
Total Dissolved Solids	SM2540C	AE52116	05/21/15 10:15	05/26/15 13:00	"	450 "	10	
Total Suspended Solids	SM2540D	AE52130	05/21/15 10:00	05/26/15 10:00	"	330 "	1.0	
Silica	SM4500-SiO2 C	AE52143	05/21/15 15:00	05/21/15 17:30	"	18 "	1.0	
Total Kjeldahl Nitrogen	SM4500-Norg B	AE52912	06/01/15 08:52	06/01/15 13:08	"	65 "	1.0	
Total Nitrogen	SM4500-N	AE52835	05/28/15 11:19	06/01/15 16:30	"	65 "	1.0	
Phosphorus, total	SM4500-P E	AF50228	06/02/15 08:10	06/02/15 10:52	5	7.1 "	2.0	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AE51980	05/20/15 18:21	05/20/15 18:21	10	59 mg/L	5.0	
Nitrate as N	"	"	05/20/15 18:38	05/20/15 18:38	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 AE52830 - Metals Digest										
Blank (AE52830-BLK1)				Prepared: 05/28/15 Analyzed: 05/29/15						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	"							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (AE52830-BS1)				Prepared: 05/28/15 Analyzed: 05/29/15						
Boron	0.446	0.050	mg/L	0.400		112	85-115			
Calcium	8.14	1.0	"	8.00		102	85-115			
Magnesium	8.31	1.0	"	8.00		104	85-115			
Sodium	8.33	1.0	"	8.00		104	85-115			
Duplicate (AE52830-DUP1)				Source: 15E1806-01		Prepared: 05/28/15 Analyzed: 05/29/15				
Boron	0.286	0.050	mg/L		0.291			1.75	20	
Calcium	25.0	1.0	"		25.9			3.70	20	
Magnesium	27.7	1.0	"		28.7			3.64	20	
Sodium	27.8	1.0	"		29.1			4.49	20	
Matrix Spike (AE52830-MS1)				Source: 15E1806-01		Prepared: 05/28/15 Analyzed: 05/29/15				
Boron	0.687	0.050	mg/L	0.400	0.291	99.0	70-130			
Calcium	33.0	1.0	"	8.00	25.9	88.8	70-130			
Magnesium	36.2	1.0	"	8.00	28.7	92.8	70-130			
Sodium	36.4	1.0	"	8.00	29.1	90.7	70-130			
Matrix Spike (AE52830-MS2)				Source: 15E1771-01		Prepared: 05/28/15 Analyzed: 05/29/15				
Boron	0.468	0.050	mg/L	0.400	0.0587	102	70-130			
Calcium	25.4	1.0	"	8.00	17.9	92.9	70-130			
Magnesium	16.7	1.0	"	8.00	8.51	103	70-130			
Sodium	48.4	1.0	"	8.00	41.8	83.2	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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Page 5 of 11

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Client PO/Reference

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 AE52830 - Metals Digest										
Matrix Spike Dup (AE52830-MSD1)		Source: 15E1806-01		Prepared: 05/28/15 Analyzed: 05/29/15						
Boron	0.733	0.050	mg/L	0.400	0.291	110	70-130	6.41	20	
Calcium	35.2	1.0	"	8.00	25.9	116	70-130	6.45	20	
Magnesium	37.8	1.0	"	8.00	28.7	114	70-130	4.50	20	
Sodium	38.1	1.0	"	8.00	29.1	112	70-130	4.65	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 AE52111 - General Preparation										
Blank (AE52111-BLK1)				Prepared: 05/21/15 Analyzed: 05/26/15						
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AE52111-BLK2)				Prepared: 05/21/15 Analyzed: 05/26/15						
Biochemical Oxygen Demand	ND	5.0	mg/L							
LCS (AE52111-BS1)				Prepared: 05/21/15 Analyzed: 05/26/15						
Biochemical Oxygen Demand	210	5.0	mg/L	200		105	84-115			
Duplicate (AE52111-DUP1)				Source: 15E1938-01		Prepared: 05/21/15 Analyzed: 05/26/15				
Biochemical Oxygen Demand	383	5.0	mg/L		428			11.1	30	
Batch AE52116 - General Preparation										
Blank (AE52116-BLK1)				Prepared: 05/21/15 Analyzed: 05/26/15						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AE52116-DUP1)				Source: 15E1773-05		Prepared: 05/21/15 Analyzed: 05/26/15				
Total Dissolved Solids	1020	10	mg/L		1070			4.60	15	
Duplicate (AE52116-DUP2)				Source: 15E1896-01		Prepared: 05/21/15 Analyzed: 05/26/15				
Total Dissolved Solids	956	10	mg/L		924			3.40	15	
Batch AE52130 - General Preparation										
Blank (AE52130-BLK1)				Prepared: 05/21/15 Analyzed: 05/26/15						
Total Suspended Solids	ND	1.0	mg/L							



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Page 7 of 11

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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 AE52130 - General Preparation										
Duplicate (AE52130-DUP1)	Source: 15E1759-02		Prepared: 05/21/15 Analyzed: 05/26/15							
Total Suspended Solids	218	1.0	mg/L		218			0.00	30	
Duplicate (AE52130-DUP2)	Source: 15E1800-01		Prepared: 05/21/15 Analyzed: 05/26/15							
Total Suspended Solids	200	1.0	mg/L		197			1.68	30	
Batch AE52143 - General Preparation										
Blank (AE52143-BLK1)	Prepared & Analyzed: 05/21/15									
Silica	ND	1.0	mg/L							
LCS (AE52143-BS1)	Prepared & Analyzed: 05/21/15									
Silica	10.6	1.0	mg/L	10.0		106	80-120			
LCS Dup (AE52143-BSD1)	Prepared & Analyzed: 05/21/15									
Silica	10.5	1.0	mg/L	10.0		105	80-120	0.396	15	
Duplicate (AE52143-DUP1)	Source: 15E1806-01		Prepared & Analyzed: 05/21/15							
Silica	56.9	5.0	mg/L		57.3			0.733	20	
Matrix Spike (AE52143-MS1)	Source: 15E1806-01		Prepared & Analyzed: 05/21/15							
Silica	79.2	25	mg/L	25.0	57.3	87.8	85-115			
Matrix Spike Dup (AE52143-MSD1)	Source: 15E1806-01		Prepared & Analyzed: 05/21/15							
Silica	80.0	25	mg/L	25.0	57.3	90.9	85-115	0.965	15	
Batch AE52729 - General Preparation										
Blank (AE52729-BLK1)	Prepared & Analyzed: 05/27/15									
Ammonia as NH ₃	ND	0.50	mg/L							



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Page 8 of 11

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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 AE52729 - General Preparation										
LCS (AE52729-BS1)				Prepared & Analyzed: 05/27/15						
Ammonia as NH ₃	5.85	0.50	mg/L	6.10		96.0	90-110			
LCS Dup (AE52729-BS1)				Prepared & Analyzed: 05/27/15						
Ammonia as NH ₃	5.85	0.50	mg/L	6.10		96.0	90-110	0.00	10	
Matrix Spike (AE52729-MS1)				Source: 15E1876-03		Prepared & Analyzed: 05/28/15				
Ammonia as NH ₃	11.5	0.50	mg/L	12.2	ND	94.2	85-115			
Matrix Spike Dup (AE52729-MS1)				Source: 15E1876-03		Prepared & Analyzed: 05/28/15				
Ammonia as NH ₃	11.7	0.50	mg/L	12.2	ND	96.0	85-115	1.84	20	
Batch AE52912 - General Prep										
LCS (AE52912-BS1)				Prepared: 05/29/15 Analyzed: 06/01/15						
Total Kjeldahl Nitrogen	3.13	1.0	mg/L	2.98		105	80-120			
LCS Dup (AE52912-BS1)				Prepared: 05/29/15 Analyzed: 06/01/15						
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120	2.98	20	
Matrix Spike (AE52912-MS1)				Source: 15E2118-03		Prepared & Analyzed: 06/01/15				
Total Kjeldahl Nitrogen	3.41	1.0	mg/L	2.98	ND	107	75-125			
Matrix Spike Dup (AE52912-MS1)				Source: 15E2118-03		Prepared & Analyzed: 06/01/15				
Total Kjeldahl Nitrogen	3.32	1.0	mg/L	2.98	ND	104	75-125	2.73	20	
Batch AF50228 - General Prep										
Blank (AF50228-BLK1)				Prepared & Analyzed: 06/02/15						
Phosphorus, total	ND	0.040	mg/L							



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Analyte(s)	Result	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch AF50228 - General Prep										
LCS (AF50228-BS1)				Prepared & Analyzed: 06/02/15						
Phosphorus, total	0.196	0.040	mg/L	0.200		98.0	85-115			
Duplicate (AF50228-DUP1)				Source: 15E2118-01 Prepared & Analyzed: 06/02/15						
Phosphorus, total	0.0456	0.040	mg/L		0.0443			2.94	20	
Matrix Spike (AF50228-MS1)				Source: 15E2118-01 Prepared & Analyzed: 06/02/15						
Phosphorus, total	0.216	0.040	mg/L	0.200	0.0443	85.7	70-130			
Matrix Spike Dup (AF50228-MSD1)				Source: 15E2118-01 Prepared & Analyzed: 06/02/15						
Phosphorus, total	0.217	0.040	mg/L	0.200	0.0443	86.4	70-130	0.610	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 AE51980 - General Preparation										
Blank (AE51980-BLK1)				Prepared & Analyzed: 05/20/15						
Chloride	ND	0.50	mg/L							
Nitrite as N	ND	0.20	"							
Nitrate as N	ND	0.20	"							
LCS (AE51980-BS1)				Prepared & Analyzed: 05/20/15						
Chloride	9.97	0.50	mg/L	10.0		99.7	90-110			
Nitrite as N	5.09	0.20	"	5.00		102	90-110			
Nitrate as N	4.92	0.20	"	5.00		98.4	90-110			
Duplicate (AE51980-DUP1)				Source: 15E1737-03		Prepared & Analyzed: 05/20/15				
Nitrite as N	ND	0.20	mg/L		ND				20	
Nitrate as N	ND	0.20	"		ND				20	
Chloride	32.4	2.5	"		32.4			0.201	20	
Matrix Spike (AE51980-MS1)				Source: 15E1737-03		Prepared & Analyzed: 05/20/15				
Chloride	42.9	2.5	mg/L	11.1	32.4	94.9	80-120			
Nitrate as N	5.40	1.0	"	5.56	ND	94.2	80-120			
Nitrite as N	5.39	1.0	"	5.56	ND	97.1	80-120			
Matrix Spike (AE51980-MS2)				Source: 15E1908-01		Prepared & Analyzed: 05/20/15				
Nitrate as N	5.79	1.0	mg/L	5.56	ND	95.4	80-120			
Chloride	51.3	2.5	"	11.1	40.2	99.8	80-120			
Nitrite as N	5.43	1.0	"	5.56	ND	96.4	80-120			
Matrix Spike Dup (AE51980-MSD1)				Source: 15E1737-03		Prepared & Analyzed: 05/20/15				
Chloride	42.9	2.5	mg/L	11.1	32.4	94.9	80-120	0.00	20	
Nitrate as N	5.37	1.0	"	5.56	ND	93.7	80-120	0.512	20	
Nitrite as N	5.39	1.0	"	5.56	ND	97.0	80-120	0.103	20	



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CHEMICAL EXAMINATION REPORT

Page 11 of 11

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

Report Date: 06/04/15 10:39
Project No: -
Project ID: Reclaimed Study

Order Number

15E1851

Receipt Date/Time

05/19/2015 22:45

Client Code

WESTBAY

Client PO/Reference

Notes and Definitions

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

Company/Name: West Bay Sanitary District		Project ID: Reclaimed Water Study		Signature below authorizes work under terms stated on reverse side.										Analysis Request		Sample Notes		TAT											
Mailing Address:		Project No:		<div>Temp 48</div> <div>See Attached</div>										Temp 48		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"/>													
Project Contact & Email (Hardcopy or PDF to): Mark Praturion mpraturion@westbaysanitary.org		PO#																											
Phone/Fax:		Site Contact:																											
Field Sampler - Print Name & Signature		Sampling																Container		Preservative		Matrix							
Sample Identification		Date Time		40ml Vial	Poly	Glass	Sleeve	Other	HCL	HNO3	H2SO4	Other	NONE	Water	Soil	Other	Silica	200.7 - Na, Ca, Mg, B	TDS, TSS	Chloride	Total Nitrogen	Ammonia	Phosphorus	BOD	Lab Approval Required For Rush				
051915 - A Alpine Rd.		5.19.15 24hr		2						/	/						/	/	/	/	/	/	/	/	/				
051915 - B Sand Hill Rd.		5.19.15 24hr		2						/	/						/	/	/	/	/	/	/	/	/				
Relinquished by: Mark Praturion		Received by: Jim Johnson		Date 5.19.15		Time 1342		CDPH Write On EDT Report? Yes <input type="radio"/> No <input type="radio"/>										State System Number:		CA Geotracker EDF Report Yes <input type="radio"/> No <input type="radio"/>		Sampling Company Log Code:		Global ID:		EDF to (Email Address):			
Relinquished by: Jim Johnson		Received by: LWCH		Date 5.19.15		Time 2015																							
Relinquished by: LWCH		Received by: LWCH		Date 5.19.15		Time 2015																							
Relinquished by:		Received by:		Date		Time																							
Relinquished by:		Received by:		Date		Time																							

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