



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

11 May 2015

West Bay Sanitary District

Attn: Mark Pratulon

500 Laurel Street

Menlo Park, CA 94025

RE: Reclaimed Study

Work Order: 15D2420

Enclosed are the results of analyses for samples received by the laboratory on 04/22/15 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: 05/11/15 13:19
Project No: -
Project ID: Reclaimed Study

Order Number
15D2420

Receipt Date/Time
04/22/2015 22:50

Client Code
WESTBAY

Client PO/Reference

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Alpine Rd 042115-A	15D2420-01	Water	04/21/15 00:00	04/22/15 22:50
Sand Hill Rd 042115-A	15D2420-02	Water	04/21/15 00:00	04/22/15 22:50



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	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Alpine Rd 042115-A (15D2420-01)								
			Sample Type: Water		Sampled: 04/21/15 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AD53024	04/30/15 11:24	05/04/15 13:52	1	0.26 mg/L	0.050	
Calcium	"	"	"	"	"	37 "	1.0	
Magnesium	"	"	"	"	"	12 "	1.0	
Sodium	"	"	"	"	"	80 "	1.0	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AD52818	04/28/15 08:00	04/28/15 17:00	1	69 mg/L	0.50	
Biochemical Oxygen Demand	SM5210B	AD52348	04/24/15 08:00	04/29/15 15:00	"	360 "	5.0	T-2
Total Dissolved Solids	SM2540C	AD52732	04/27/15 09:30	04/30/15 08:45	"	540 "	10	
Total Suspended Solids	SM2540D	AD52750	04/27/15 12:00	04/28/15 12:00	"	510 "	1.0	
Silica	SM4500-SiO2 C	AD52344	04/23/15 15:00	04/23/15 17:00	2	18 "	2.0	
Total Kjeldahl Nitrogen	SM4500-Norg B	AE50701	05/08/15 06:35	05/11/15 08:41	1	86 "	1.0	
Total Nitrogen	SM4500-N	AE50762	05/07/15 17:31	05/11/15 08:53	"	86 "	1.0	
Phosphorus, total	SM4500-P E	AE50418	05/04/15 08:30	05/04/15 11:58	5	8.9 "	2.0	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AD52354	04/24/15 14:52	04/24/15 14:52	10	88 mg/L	5.0	
Nitrate as N	"	"	"	"	1	ND "	0.20	T-2
Nitrite as N	"	"	"	"	"	ND "	0.20	T-2
Sand Hill Rd 042115-A (15D2420-02)								
			Sample Type: Water		Sampled: 04/21/15 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AD53024	04/30/15 11:24	05/04/15 13:56	1	0.15 mg/L	0.050	
Calcium	"	"	"	"	"	22 "	1.0	
Magnesium	"	"	"	"	"	17 "	1.0	
Sodium	"	"	"	"	"	45 "	1.0	



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	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Sand Hill Rd 042115-A (15D2420-02)			Sample Type: Water		Sampled: 04/21/15 00:00			
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AD52818	04/28/15 08:00	04/28/15 17:00	1	57 mg/L	0.50	T-2
Biochemical Oxygen Demand	SM5210B	AD52348	04/24/15 08:00	04/29/15 15:00	"	300 "	5.0	
Total Dissolved Solids	SM2540C	AD52732	04/27/15 09:30	04/30/15 08:45	"	330 "	10	
Total Suspended Solids	SM2540D	AD52750	04/27/15 12:00	04/28/15 12:00	"	340 "	1.0	
Silica	SM4500-SiO2 C	AD52344	04/23/15 15:00	04/23/15 17:00	2	17 "	2.0	
Total Kjeldahl Nitrogen	SM4500-Norg B	AE50701	05/08/15 06:35	05/11/15 08:41	1	66 "	1.0	
Total Nitrogen	SM4500-N	AE50762	05/07/15 17:31	05/11/15 08:53	"	66 "	1.0	
Phosphorus, total	SM4500-P E	AE50418	05/04/15 08:30	05/04/15 11:58	5	9.7 "	2.0	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AD52354	04/24/15 15:25	04/24/15 15:25	10	48 mg/L	5.0	
Nitrate as N	"	"	"	"	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
Batch AD53024 - Metals Digest										
Blank (AD53024-BLK1)				Prepared: 04/30/15 Analyzed: 05/01/15						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	"							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (AD53024-BS1)				Prepared: 04/30/15 Analyzed: 05/01/15						
Boron	0.454	0.050	mg/L	0.400		113	85-115			
Calcium	8.32	1.0	"	8.00		104	85-115			
Magnesium	8.24	1.0	"	8.00		103	85-115			
Sodium	8.15	1.0	"	8.00		102	85-115			
Duplicate (AD53024-DUP1)				Source: 15D2262-01		Prepared: 04/30/15 Analyzed: 05/01/15				
Boron	ND	0.050	mg/L		ND				20	
Calcium	4.60	1.0	"		4.16			9.86	20	
Magnesium	1.04	1.0	"		ND				20	
Sodium	9.30	1.0	"		8.77			5.88	20	
Matrix Spike (AD53024-MS1)				Source: 15D2262-01		Prepared: 04/30/15 Analyzed: 05/01/15				
Boron	0.449	0.050	mg/L	0.400	ND	112	70-130			
Calcium	12.6	1.0	"	8.00	4.16	105	70-130			
Magnesium	9.19	1.0	"	8.00	ND	103	70-130			
Sodium	17.0	1.0	"	8.00	8.77	103	70-130			
Matrix Spike (AD53024-MS2)				Source: 15D2259-01		Prepared: 04/30/15 Analyzed: 05/01/15				
Boron	0.420	0.050	mg/L	0.400	ND	105	70-130			
Calcium	14.7	1.0	"	8.00	7.91	84.9	70-130			
Magnesium	10.4	1.0	"	8.00	3.09	92.0	70-130			
Sodium	10.5	1.0	"	8.00	2.96	94.1	70-130			



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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 AD53024 - Metals Digest										
Matrix Spike Dup (AD53024-MSD1)		Source: 15D2262-01		Prepared: 04/30/15 Analyzed: 05/01/15						
Boron	0.498	0.050	mg/L	0.400	ND	124	70-130	10.4	20	
Calcium	12.6	1.0	"	8.00	4.16	106	70-130	0.445	20	
Magnesium	9.81	1.0	"	8.00	ND	111	70-130	6.45	20	
Sodium	17.2	1.0	"	8.00	8.77	105	70-130	0.785	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 AD52344 - General Preparation										
Blank (AD52344-BLK1)				Prepared & Analyzed: 04/23/15						
Silica	ND	1.0	mg/L							
LCS (AD52344-BS1)				Prepared & Analyzed: 04/23/15						
Silica	10.8	1.0	mg/L	10.0		108	80-120			
LCS Dup (AD52344-BSD1)				Prepared & Analyzed: 04/23/15						
Silica	10.3	1.0	mg/L	10.0		103	80-120	5.01	15	
Duplicate (AD52344-DUP1)				Source: 15D2010-02		Prepared & Analyzed: 04/23/15				
Silica	17.0	2.0	mg/L		16.3			3.71	20	
Matrix Spike (AD52344-MS1)				Source: 15D2010-02		Prepared & Analyzed: 04/23/15				
Silica	25.1	4.0	mg/L	10.0	16.3	88.0	85-115			
Matrix Spike Dup (AD52344-MSD1)				Source: 15D2010-02		Prepared & Analyzed: 04/23/15				
Silica	25.4	4.0	mg/L	10.0	16.3	90.3	85-115	0.917	15	
Batch AD52348 - General Preparation										
Blank (AD52348-BLK1)				Prepared: 04/24/15 Analyzed: 04/29/15						
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AD52348-BLK2)				Prepared: 04/24/15 Analyzed: 04/29/15						
Biochemical Oxygen Demand	ND	5.0	mg/L							
LCS (AD52348-BS1)				Prepared: 04/22/15 Analyzed: 04/27/15						
Biochemical Oxygen Demand	215	5.0	mg/L	200		108	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 AD52348 - General Preparation										
Duplicate (AD52348-DUP1)	Source: 15D2371-01		Prepared: 04/24/15 Analyzed: 04/29/15							
Biochemical Oxygen Demand	179	5.0	mg/L		178			0.560	30	
Batch AD52732 - General Preparation										
Blank (AD52732-BLK1)			Prepared: 04/27/15 Analyzed: 04/30/15							
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AD52732-DUP1)	Source: 15D2339-02		Prepared: 04/27/15 Analyzed: 04/30/15							
Total Dissolved Solids	872	10	mg/L		984			12.1	15	
Duplicate (AD52732-DUP2)	Source: 15D2340-01		Prepared: 04/27/15 Analyzed: 04/30/15							
Total Dissolved Solids	888	10	mg/L		884			0.451	15	
Batch AD52750 - General Preparation										
Blank (AD52750-BLK1)			Prepared: 04/27/15 Analyzed: 04/28/15							
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AD52750-DUP1)	Source: 15D2364-01		Prepared: 04/27/15 Analyzed: 04/28/15							
Total Suspended Solids	128	1.0	mg/L		133			3.82	30	
Duplicate (AD52750-DUP2)	Source: 15D2380-01		Prepared: 04/27/15 Analyzed: 04/28/15							
Total Suspended Solids	218	1.0	mg/L		238			8.76	30	
Batch AD52818 - General Preparation										
Blank (AD52818-BLK1)			Prepared & Analyzed: 04/28/15							
Ammonia as NH3	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
Batch AD52818 - General Preparation										
LCS (AD52818-BS1)				Prepared & Analyzed: 04/28/15						
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110			
LCS Dup (AD52818-BSD1)				Prepared & Analyzed: 04/28/15						
Ammonia as NH3	6.07	0.50	mg/L	6.10		99.5	90-110	1.76	10	
Matrix Spike (AD52818-MS1)				Source: 15D2398-01		Prepared & Analyzed: 04/28/15				
Ammonia as NH3	11.7	0.50	mg/L	12.2	ND	96.0	85-115			
Matrix Spike Dup (AD52818-MSD1)				Source: 15D2398-01		Prepared & Analyzed: 04/28/15				
Ammonia as NH3	11.5	0.50	mg/L	12.2	ND	94.2	85-115	1.84	20	
Batch AE50418 - General Prep										
Blank (AE50418-BLK1)				Prepared & Analyzed: 05/04/15						
Phosphorus, total	ND	0.040	mg/L							
LCS (AE50418-BS1)				Prepared & Analyzed: 05/04/15						
Phosphorus, total	0.196	0.040	mg/L	0.200		98.0	85-115			
Duplicate (AE50418-DUP1)				Source: 15D2478-05		Prepared & Analyzed: 05/04/15				
Phosphorus, total	2.17	0.40	mg/L		2.19			0.610	20	
Matrix Spike (AE50418-MS1)				Source: 15D2478-05		Prepared & Analyzed: 05/04/15				
Phosphorus, total	3.95	0.40	mg/L	2.00	2.19	88.3	70-130			
Matrix Spike Dup (AE50418-MSD1)				Source: 15D2478-05		Prepared & Analyzed: 05/04/15				
Phosphorus, total	3.95	0.40	mg/L	2.00	2.19	88.3	70-130	0.00	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 AE50701 - General Prep										
LCS (AE50701-BS1)				Prepared & Analyzed: 05/08/15						
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120			
LCS Dup (AE50701-BSD1)				Prepared & Analyzed: 05/08/15						
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120	0.00	20	
Matrix Spike (AE50701-MS1)				Source: 15D2497-01		Prepared & Analyzed: 05/08/15				
Total Kjeldahl Nitrogen	3.96	1.0	mg/L	2.98	1.58	80.1	75-125			
Matrix Spike Dup (AE50701-MSD1)				Source: 15D2497-01		Prepared & Analyzed: 05/08/15				
Total Kjeldahl Nitrogen	4.06	1.0	mg/L	2.98	1.58	83.3	75-125	2.32	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 AD52354 - General Preparation										
Blank (AD52354-BLK1)				Prepared & Analyzed: 04/24/15						
Nitrate as N	ND	0.20	mg/L							
Chloride	ND	0.50	"							
Nitrite as N	ND	0.20	"							
LCS (AD52354-BS1)				Prepared & Analyzed: 04/24/15						
Chloride	11.5	0.50	mg/L	11.1		104	90-110			
Nitrate as N	5.77	0.20	"	5.56		104	90-110			
Nitrite as N	5.71	0.20	"	5.56		103	90-110			
Duplicate (AD52354-DUP1)				Source: 15D2520-03		Prepared & Analyzed: 04/27/15				
Chloride	4.27	0.50	mg/L		4.66			8.83	20	
Nitrate as N	1.09	0.20	"		1.22			11.6	20	
Nitrite as N	ND	0.20	"		ND				20	
Matrix Spike (AD52354-MS1)				Source: 15D2520-03		Prepared & Analyzed: 04/27/15				
Chloride	16.0	0.50	mg/L	11.1	4.66	102	80-120			
Nitrite as N	5.95	0.20	"	5.56	ND	107	80-120			
Nitrate as N	7.10	0.20	"	5.56	1.22	106	80-120			
Matrix Spike (AD52354-MS2)				Source: 15D2583-01		Prepared & Analyzed: 04/25/15				
Chloride	19.1	0.50	mg/L	11.1	6.80	110	80-120			
Nitrate as N	6.31	0.20	"	5.56	ND	113	80-120			
Nitrite as N	5.22	0.20	"	5.56	ND	93.5	80-120			
Matrix Spike Dup (AD52354-MSD1)				Source: 15D2520-03		Prepared & Analyzed: 04/27/15				
Nitrate as N	7.09	0.20	mg/L	5.56	1.22	106	80-120	0.127	20	
Nitrite as N	5.93	0.20	"	5.56	ND	107	80-120	0.411	20	
Chloride	16.0	0.50	"	11.1	4.66	102	80-120	0.104	20	



Alpha Analytical Laboratories Inc.

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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: 05/11/15 13:19
Project No: -
Project ID: Reclaimed Study

Order Number
15D2420

Receipt Date/Time
04/22/2015 22:50

Client Code
WESTBAY

Client PO/Reference

Notes and Definitions

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

Work Order Chain of Custody Record

Lab No. 15D2420 Page 1 of 1

Temp &

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 style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">See attached</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BOD</div> </div>												<div style="display: flex; flex-direction: column; align-items: center;"> <div>24 hr</div> <div><input type="radio"/></div> <div>48 hr</div> <div><input type="radio"/></div> <div>Lab Approval Required</div> <div>1 wk</div> <div><input type="radio"/></div> <div>2 wk (standard)</div> <div><input type="radio"/></div> </div>		Lab Approval Required For Rush										
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	See attached			
Alpine Rd. 042015-A		4/20	24hr	1																								
Sand Hill Rd. 042015-B		4/20	24hr.	1																								
Alpine Rd. 042115-A		4/21	24hr	2																								
Sand Hill Rd. 042115-B		4/21	24hr	2																								
Relinquished by: Mark Praturion		Received by: <i>Jim John</i>		Date: 4/24/15	Time: 1317		CDPH Write On EDT Report? Yes <input type="radio"/> No <input type="radio"/>																					
Relinquished by: <i>Jim John</i>		Received by: <i>WMM</i>		Date: 4-22-15	Time: 2010		State System Number: _____																					
Relinquished by: <i>WMM</i>		Received by: <i>WMM</i>		Date: 4-22-15	Time: 2250		CA Geotracker EDF Report Yes <input type="radio"/> No <input type="radio"/>																					
Relinquished by:		Received by:		Date:	Time:		Sampling Company Log Code: _____																					
Relinquished by:		Received by:		Date:	Time:		Global ID: _____ EDF to (Email Address): _____																					
Relinquished by:		Received by:		Date:	Time:		Travel and Site Time: _____ Mileage: _____ Misc. Supplies: _____																					

ON Sep
W10

OK to analyze
BODs out of
hold per Robby
4-23-15

- 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