



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

30 December 2014

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: Reclaimed Study

Work Order: 14L1026

Enclosed are the results of analyses for samples received by the laboratory on 12/10/14 21:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Chelsea L. Sandelin 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: John Simonetti

Report Date: 12/30/14 09:07
Project No: -
Project ID: Reclaimed Study

Order Number
14L1026

Receipt Date/Time
12/10/2014 21:40

Client Code
WESTBAY

Client PO/Reference

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Alpine Rd 080914A	14L1026-01	Water	08/10/14 00:00	12/10/14 21:40
Sand Hill Rd 080914B	14L1026-02	Water	08/10/14 00:00	12/10/14 21:40



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	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Alpine Rd 080914A (14L1026-01)								
			Sample Type: Water		Sampled: 08/10/14 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AL41549	12/15/14 10:13	12/23/14 15:11	1	0.24 mg/L	0.050	
Calcium	"	"	"	"	"	24 "	1.0	
Magnesium	"	"	"	"	"	5.8 "	1.0	
Sodium	"	"	"	"	"	53 "	1.0	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AL41537	12/15/14 08:00	12/16/14 14:48	1	66 mg/L	0.50	T-2
Biochemical Oxygen Demand	SM5210B	AL41103	12/11/14 14:00	12/16/14 10:48	"	370 "	5.0	T-2
Total Dissolved Solids	SM2540C	AL41208	12/12/14 09:30	12/17/14 14:15	"	310 "	10	T-5
Total Suspended Solids	SM2540D	AL41137	12/11/14 14:00	12/13/14 10:00	"	480 "	1.0	T-2
Silica	SM4500-SiO2 C	AL41535	12/15/14 09:00	12/15/14 11:00	2	15 "	2.0	T-2
Total Kjeldahl Nitrogen	SM4500-Norg B	AL41531	12/15/14 07:00	12/16/14 09:27	1	73 "	1.0	T-1
Total Nitrogen	SM4500-N	AL42271	12/22/14 16:25	12/23/14 08:22	"	73 "	1.0	T-2
Phosphorus, total	SM4500-P E	AL41205	12/12/14 08:10	12/12/14 11:06	20	7.0 "	0.80	T-1
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AL41139	12/12/14 05:45	12/12/14 05:45	10	47 mg/L	5.0	T-3
Nitrate as N	"	"	12/12/14 06:00	12/12/14 06:00	1	ND "	0.20	T-3
Nitrite as N	"	"	"	"	"	ND "	0.20	T-3
Sand Hill Rd 080914B (14L1026-02)								
			Sample Type: Water		Sampled: 08/10/14 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AL41549	12/15/14 10:13	12/23/14 15:16	1	0.28 mg/L	0.050	
Calcium	"	"	"	"	"	31 "	1.0	
Magnesium	"	"	"	"	"	25 "	1.0	
Sodium	"	"	"	"	"	63 "	1.0	



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	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Sand Hill Rd 080914B (14L1026-02)			Sample Type: Water		Sampled: 08/10/14 00:00			
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AL41537	12/15/14 08:00	12/16/14 14:48	1	63 mg/L	0.50	T-2
Biochemical Oxygen Demand	SM5210B	AL41103	12/11/14 14:00	12/16/14 10:48	"	260 "	5.0	T-2
Total Dissolved Solids	SM2540C	AL41208	12/12/14 09:30	12/17/14 14:15	"	510 "	10	T-5
Total Suspended Solids	SM2540D	AL41137	12/11/14 14:00	12/13/14 10:00	"	420 "	1.0	T-2
Silica	SM4500-SiO2 C	AL41535	12/15/14 09:00	12/15/14 11:00	2	17 "	2.0	T-2
Total Kjeldahl Nitrogen	SM4500-Norg B	AL41531	12/15/14 07:00	12/16/14 09:27	1	73 "	1.0	T-1
Total Nitrogen	SM4500-N	AL42271	12/22/14 16:25	12/23/14 08:22	"	73 "	1.0	T-2
Phosphorus, total	SM4500-P E	AL41205	12/12/14 08:10	12/12/14 11:06	20	6.9 "	0.80	T-1
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AL41139	12/12/14 06:15	12/12/14 06:15	10	70 mg/L	5.0	T-3
Nitrate as N	"	"	12/12/14 06:29	12/12/14 06:29	1	ND "	0.20	T-3
Nitrite as N	"	"	"	"	"	ND "	0.20	T-3



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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 AL41549 - Metals Digest										
Blank (AL41549-BLK1)				Prepared: 12/15/14 Analyzed: 12/18/14						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	"							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
LCS (AL41549-BS1)				Prepared: 12/15/14 Analyzed: 12/18/14						
Boron	0.774	0.050	mg/L	0.800		96.7	85-115			
Calcium	16.3	1.0	"	16.0		102	85-115			
Magnesium	15.5	1.0	"	16.0		97.1	85-115			
Sodium	16.2	1.0	"	16.0		101	85-115			
Duplicate (AL41549-DUP1)				Source: 14L0901-04		Prepared: 12/15/14 Analyzed: 12/18/14				
Boron	0.583	0.050	mg/L		0.558			4.46	20	
Calcium	288	1.0	"		279			2.97	20	
Magnesium	121	1.0	"		119			1.75	20	
Sodium	400	1.0	"		398			0.340	20	
Matrix Spike (AL41549-MS1)				Source: 14L0901-04		Prepared: 12/15/14 Analyzed: 12/18/14				
Boron	1.32	0.050	mg/L	0.800	0.558	95.6	70-130			
Calcium	287	1.0	"	16.0	279	49.3	70-130			QM-4X
Magnesium	131	1.0	"	16.0	119	72.2	70-130			
Sodium	397	1.0	"	16.0	398	NR	70-130			QM-4X
Matrix Spike (AL41549-MS2)				Source: 14L0933-01		Prepared: 12/15/14 Analyzed: 12/18/14				
Boron	0.872	0.050	mg/L	0.800	0.0756	99.6	70-130			
Calcium	16.3	1.0	"	16.0	ND	101	70-130			
Magnesium	15.8	1.0	"	16.0	ND	98.8	70-130			
Sodium	162	1.0	"	16.0	144	115	70-130			



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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 AL41549 - Metals Digest										
Matrix Spike Dup (AL41549-MSD1)		Source: 14L0901-04		Prepared: 12/15/14 Analyzed: 12/18/14						
Boron	1.33	0.050	mg/L	0.800	0.558	97.2	70-130	0.951	20	
Calcium	294	1.0	"	16.0	279	95.4	70-130	2.54	20	
Magnesium	134	1.0	"	16.0	119	91.2	70-130	2.30	20	
Sodium	408	1.0	"	16.0	398	64.1	70-130	2.93	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
Batch AL41103 - General Preparation										
Blank (AL41103-BLK1)				Prepared: 12/11/14 Analyzed: 12/16/14						
Biochemical Oxygen Demand	ND	5.0	mg/L							
Blank (AL41103-BLK2)				Prepared: 12/11/14 Analyzed: 12/16/14						
Biochemical Oxygen Demand	ND	5.0	mg/L							
LCS (AL41103-BS1)				Prepared: 12/10/14 Analyzed: 12/15/14						
Biochemical Oxygen Demand	205	5.0	mg/L	200		102	84-115			
Duplicate (AL41103-DUP1)				Source: 14L0996-01		Prepared: 12/11/14 Analyzed: 12/16/14				
Biochemical Oxygen Demand	331	5.0	mg/L		346			4.43	30	
Batch AL41137 - General Preparation										
Blank (AL41137-BLK1)				Prepared: 12/11/14 Analyzed: 12/13/14						
Total Suspended Solids	ND	1.0	mg/L							
Duplicate (AL41137-DUP1)				Source: 14L1007-01		Prepared: 12/11/14 Analyzed: 12/13/14				
Total Suspended Solids	218	1.0	mg/L		272			22.4	30	
Duplicate (AL41137-DUP2)				Source: 14L1026-02		Prepared: 12/11/14 Analyzed: 12/13/14				
Total Suspended Solids	410	1.0	mg/L		420			2.41	30	
Batch AL41205 - General Prep										
Blank (AL41205-BLK1)				Prepared & Analyzed: 12/12/14						
Phosphorus, total	ND	0.040	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 AL41205 - General Prep										
LCS (AL41205-BS1)				Prepared & Analyzed: 12/12/14						
Phosphorus, total	0.195	0.040	mg/L	0.200		97.5	85-115			
Duplicate (AL41205-DUP1)				Source: 14L0949-01		Prepared & Analyzed: 12/12/14				
Phosphorus, total	0.198	0.040	mg/L		0.195			1.31	20	
Matrix Spike (AL41205-MS1)				Source: 14L0949-01		Prepared & Analyzed: 12/12/14				
Phosphorus, total	0.368	0.040	mg/L	0.200	0.195	86.4	70-130			
Matrix Spike Dup (AL41205-MSD1)				Source: 14L0949-01		Prepared & Analyzed: 12/12/14				
Phosphorus, total	0.365	0.040	mg/L	0.200	0.195	85.2	70-130	0.704	20	
Batch AL41208 - General Preparation										
Blank (AL41208-BLK1)				Prepared: 12/12/14 Analyzed: 12/17/14						
Total Dissolved Solids	ND	10	mg/L							
Duplicate (AL41208-DUP1)				Source: 14L1040-01		Prepared: 12/12/14 Analyzed: 12/17/14				
Total Dissolved Solids	279	10	mg/L		271			2.91	15	
Duplicate (AL41208-DUP2)				Source: 14L1050-01		Prepared: 12/12/14 Analyzed: 12/17/14				
Total Dissolved Solids	2290	10	mg/L		2250			1.59	15	
Batch AL41531 - General Prep										
LCS (AL41531-BS1)				Prepared & Analyzed: 12/15/14						
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120			



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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 AL41531 - General Prep										
LCS Dup (AL41531-BSD1)				Prepared: 12/15/14 Analyzed: 12/16/14						
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120	0.00	20	
Matrix Spike (AL41531-MS1)				Source: 14L1028-04 Prepared: 12/17/14 Analyzed: 12/18/14						
Total Kjeldahl Nitrogen	4.06	1.0	mg/L	2.98	1.09	99.7	75-125			
Matrix Spike Dup (AL41531-MSD1)				Source: 14L1028-04 Prepared: 12/17/14 Analyzed: 12/18/14						
Total Kjeldahl Nitrogen	3.96	1.0	mg/L	2.98	1.09	96.6	75-125	2.32	20	
Batch AL41535 - General Preparation										
Blank (AL41535-BLK1)				Prepared & Analyzed: 12/15/14						
Silica	ND	1.0	mg/L							
LCS (AL41535-BS1)				Prepared & Analyzed: 12/15/14						
Silica	10.0	1.0	mg/L	10.0		100	80-120			
LCS Dup (AL41535-BSD1)				Prepared & Analyzed: 12/15/14						
Silica	9.87	1.0	mg/L	10.0		98.7	80-120	1.50	15	
Duplicate (AL41535-DUP1)				Source: 14L1026-01 Prepared & Analyzed: 12/15/14						
Silica	14.5	2.0	mg/L		14.6			1.02	20	
Matrix Spike (AL41535-MS1)				Source: 14L1026-01 Prepared & Analyzed: 12/15/14						
Silica	24.1	4.0	mg/L	10.0	14.6	94.5	85-115			
Matrix Spike Dup (AL41535-MSD1)				Source: 14L1026-01 Prepared & Analyzed: 12/15/14						
Silica	24.1	4.0	mg/L	10.0	14.6	94.5	85-115	0.00	15	



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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 AL41537 - General Preparation										
Blank (AL41537-BLK1)				Prepared: 12/15/14 Analyzed: 12/16/14						
Ammonia as NH ₃	ND	0.50	mg/L							
LCS (AL41537-BS1)				Prepared: 12/15/14 Analyzed: 12/16/14						
Ammonia as NH ₃	6.17	0.50	mg/L	6.10		101	90-110			
LCS Dup (AL41537-BSD1)				Prepared: 12/15/14 Analyzed: 12/16/14						
Ammonia as NH ₃	6.17	0.50	mg/L	6.10		101	90-110	0.00	10	
Matrix Spike (AL41537-MS1)				Source: 14L0994-01 Prepared & Analyzed: 12/16/14						
Ammonia as NH ₃	6.17	0.50	mg/L	6.10	ND	101	85-115			



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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 AL41139 - General Preparation										
Blank (AL41139-BLK1)				Prepared & Analyzed: 12/11/14						
Nitrate as N	ND	0.20	mg/L							
Nitrite as N	ND	0.20	"							
Chloride	ND	0.50	"							
LCS (AL41139-BS1)				Prepared & Analyzed: 12/11/14						
Chloride	10.9	0.50	mg/L	11.1		98.5	90-110			
Nitrate as N	5.43	0.20	"	5.56		97.7	90-110			
Nitrite as N	5.60	0.20	"	5.56		101	90-110			
Duplicate (AL41139-DUP1)				Source: 14L1101-01		Prepared & Analyzed: 12/12/14				
Chloride	0.737	0.50	mg/L		0.716			2.89	20	
Nitrite as N	ND	0.20	"		ND				20	
Nitrate as N	ND	0.20	"		ND				20	
Matrix Spike (AL41139-MS1)				Source: 14L1101-01		Prepared & Analyzed: 12/12/14				
Chloride	11.7	0.50	mg/L	11.1	0.716	99.1	80-120			
Nitrate as N	5.54	0.20	"	5.56	ND	96.3	80-120			
Nitrite as N	5.65	0.20	"	5.56	ND	100	80-120			
Matrix Spike (AL41139-MS2)				Source: 14L1100-02		Prepared & Analyzed: 12/12/14				
Chloride	11.6	0.50	mg/L	11.1	0.621	98.7	80-120			
Nitrate as N	5.84	0.20	"	5.56	0.378	98.4	80-120			
Nitrite as N	5.64	0.20	"	5.56	ND	101	80-120			
Matrix Spike Dup (AL41139-MSD1)				Source: 14L1101-01		Prepared & Analyzed: 12/12/14				
Chloride	11.7	0.50	mg/L	11.1	0.716	99.2	80-120	0.114	20	
Nitrate as N	5.54	0.20	"	5.56	ND	96.3	80-120	0.0241	20	
Nitrite as N	5.66	0.20	"	5.56	ND	101	80-120	0.236	20	



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CHEMICAL EXAMINATION REPORT

Page 11 of 11

West Bay Sanitary District
500 Laurel Street
Menlo Park, CA 94025
Attn: John Simonetti

Report Date: 12/30/14 09:07
Project No: -
Project ID: Reclaimed Study

Order Number

14L1026

Receipt Date/Time

12/10/2014 21:40

Client Code

WESTBAY

Client PO/Reference

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-2	Sample analyzed outside of recommended holding time per client.
T-3	Client did not specify sampling time.
T-5	Sample prepared 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

Report to:		Invoice to (if different):		Project Info for Report:		Signature below authorizes work under terms stated on reverse side.																											
Company:		Company:		Project Name:		Analyses Requested																											
Attn:		Attn:		Project No:																													
Address:		Address:		PO/Reference:		TAT																											
Phone/Fax:		Phone/Fax:		E-mail Address:																													
E-mail Address:		E-mail Address:		Total Number of Containers		Lab Approval Required For Rush TATs																											
Print:		Print:		Print:														Sample Notes (lab use only)															
Sample Identification		Sampled:		Container:		Preservative:		Matrix:		Temperature:																							
Date		Time		40ml VOA		HCL		HNO3														H2SO4		Other		None		Water		Soil		Other	
Alpine Rd		8/9		24hr		/		/		/		/		/		/		/		/		Shipment Method:											
080914A																																	
Sanz Hill Rd		8/9		24hr		/		/		/		/		/		/		/		/		Y / N											
080914B																																	
				</																													

Sean Foley

From: David Pingatore <david@alpha-labs.com>
Sent: Thursday, December 11, 2014 7:43 AM
To: 'Sean Foley'; 'Robbie Phillips'
Subject: West Bay tests

- 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

Robbie

From: John Simonetti
Sent: Monday, December 01, 2014 8:04 AM
To: Mark Pratlun
Subject: FW: Sample Parameters for Facilities Plan Water Quality (Raw Wastewater - Effluent Test for Reclaimed Water Project)

Robbie,

We would like a bid for testing for the items on the list below.

It would comprise of one composite sample per day, Dec.10, 11,12,
If you cannot perform any of the test listed below, we need to know ASAP!

Can you provide containers?

To review the sample parameters we need for the Facilities Plan:

- Silica – \$25
- Sodium – \$15
- Calcium – \$15
- Magnesium – \$15
- Total Dissolved Solids (TDS) – \$25
- Boron – \$15
- Chloride – \$25