



Alpha Analytical Laboratories Inc.

e-mail: [clientservices@alpha-labs.com](mailto: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

12 May 2015

West Bay Sanitary District

Attn: John Simonetti

500 Laurel Street

Menlo Park, CA 94025

RE: Reclaimed Study

Work Order: 15D2550

Enclosed are the results of analyses for samples received by the laboratory on 04/23/15 23:25. 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: John Simonetti

Report Date: 05/12/15 10:19  
Project No: -  
Project ID: Reclaimed Study

Order Number  
15D2550

Receipt Date/Time  
04/23/2015 23:25

Client Code  
WESTBAY

Client PO/Reference

## ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Alpine Rd 042215-A	15D2550-01	Water	04/22/15 00:00	04/23/15 23:25
Sand Hills Rd 042215-B	15D2550-02	Water	04/22/15 00:00	04/23/15 23:25



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### Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Alpine Rd 042215-A (15D2550-01)								
			Sample Type: Water		Sampled: 04/22/15 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AE50667	05/06/15 13:12	05/07/15 17:55	1	0.21 mg/L	0.050	
Calcium	"	"	"	"	"	36 "	1.0	
Magnesium	"	"	"	"	"	9.2 "	1.0	
Sodium	"	"	"	"	"	80 "	1.0	
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AD52926	04/29/15 08:00	04/29/15 17:00	1	72 mg/L	0.50	
Biochemical Oxygen Demand	SM5210B	AD52423	04/24/15 13:00	04/29/15 15:00	"	510 "	5.0	T-3
Total Dissolved Solids	SM2540C	AD52929	04/29/15 09:45	05/01/15 13:00	"	460 "	10	
Total Suspended Solids	SM2540D	AD52751	04/27/15 13:00	04/28/15 16:00	"	680 "	1.0	
Silica	SM4500-SiO2 C	AD52772	04/27/15 15:00	04/27/15 16:15	2	16 "	2.0	
Total Kjeldahl Nitrogen	SM4500-Norg B	AE50701	05/11/15 06:35	05/11/15 13:04	1	77 "	1.0	
Total Nitrogen	SM4500-N	AE50762	05/07/15 17:31	05/12/15 08:08	"	78 "	1.0	
Phosphorus, total	SM4500-P E	AE50418	05/04/15 08:30	05/04/15 11:58	5	11 "	2.0	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AD52429	04/25/15 01:47	04/25/15 01:47	10	99 mg/L	5.0	
Nitrate as N	"	"	04/25/15 02:04	04/25/15 02:04	1	0.83 "	0.20	T-2
Nitrite as N	"	"	"	"	"	ND "	0.20	T-2
Sand Hills Rd 042215-B (15D2550-02)								
			Sample Type: Water		Sampled: 04/22/15 00:00			
Metals by EPA 200 Series Methods								
Boron	EPA 200.7	AE50667	05/06/15 13:12	05/07/15 17:59	1	0.22 mg/L	0.050	
Calcium	"	"	"	"	"	17 "	1.0	
Magnesium	"	"	"	"	"	9.3 "	1.0	
Sodium	"	"	"	"	"	58 "	1.0	



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### Alpha Analytical Laboratories, Inc.

	METHOD	BATCH	PREPARED	ANALYZED	DILUTION	RESULT	PQL	NOTE
Sand Hills Rd 042215-B (15D2550-02)			Sample Type: Water		Sampled: 04/22/15 00:00			
Conventional Chemistry Parameters by APHA/EPA Methods								
Ammonia as NH3	SM4500NH3C	AD52926	04/29/15 08:00	04/29/15 17:00	1	60 mg/L	0.50	T-3
Biochemical Oxygen Demand	SM5210B	AD52423	04/24/15 13:00	04/29/15 15:00	"	320 "	5.0	
Total Dissolved Solids	SM2540C	AD52929	04/29/15 09:45	05/01/15 13:00	"	390 "	10	
Total Suspended Solids	SM2540D	AD52751	04/27/15 13:00	04/28/15 16:00	"	240 "	1.0	
Silica	SM4500-SiO2 C	AD52772	04/27/15 15:00	04/27/15 16:15	2	18 "	2.0	
Total Kjeldahl Nitrogen	SM4500-Norg B	AE50701	05/11/15 06:35	05/12/15 08:31	1	67 "	1.0	
Total Nitrogen	SM4500-N	AE50762	05/07/15 17:31	05/12/15 08:40	"	67 "	1.0	
Phosphorus, total	SM4500-P E	AE50418	05/04/15 08:30	05/04/15 11:58	5	6.4 "	2.0	
Anions by EPA Method 300.0								
Chloride	EPA 300.0	AD52429	04/25/15 02:20	04/25/15 02:20	10	62 mg/L	5.0	T-2
Nitrate as N	"	"	04/25/15 03:10	04/25/15 03:10	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
<b>Batch AE50667 - Metals Digest</b>										
<b>Blank (AE50667-BLK1)</b>				Prepared: 05/06/15 Analyzed: 05/07/15						
Boron	ND	0.050	mg/L							
Calcium	ND	1.0	"							
Magnesium	ND	1.0	"							
Sodium	ND	1.0	"							
<b>LCS (AE50667-BS1)</b>				Prepared: 05/06/15 Analyzed: 05/07/15						
Boron	0.403	0.050	mg/L	0.400		101	85-115			
Calcium	7.96	1.0	"	8.00		99.5	85-115			
Magnesium	8.10	1.0	"	8.00		101	85-115			
Sodium	9.24	1.0	"	8.00		115	85-115			
<b>Duplicate (AE50667-DUP1)</b>				<b>Source: 15D3007-01</b>		Prepared: 05/06/15 Analyzed: 05/07/15				
Boron	0.412	0.050	mg/L		0.430			4.20	20	
Calcium	8.55	1.0	"		8.61			0.652	20	
Magnesium	2.75	1.0	"		3.08			11.4	20	
Sodium	24.4	1.0	"		24.2			1.03	20	
<b>Matrix Spike (AE50667-MS1)</b>				<b>Source: 15D3007-01</b>		Prepared: 05/06/15 Analyzed: 05/07/15				
Boron	0.785	0.050	mg/L	0.400	0.430	88.9	70-130			
Calcium	16.2	1.0	"	8.00	8.61	94.9	70-130			
Magnesium	10.4	1.0	"	8.00	3.08	91.4	70-130			
Sodium	31.9	1.0	"	8.00	24.2	96.6	70-130			
<b>Matrix Spike (AE50667-MS2)</b>				<b>Source: 15E0231-02</b>		Prepared: 05/06/15 Analyzed: 05/07/15				
Boron	0.560	0.050	mg/L	0.400	0.217	85.9	70-130			
Calcium	24.6	1.0	"	8.00	18.5	76.7	70-130			
Magnesium	16.7	1.0	"	8.00	11.1	70.2	70-130			
Sodium	81.0	1.0	"	8.00	80.2	10.2	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 AE50667 - Metals Digest</b>										
<b>Matrix Spike Dup (AE50667-MSD1)</b>		<b>Source: 15D3007-01</b>		Prepared: 05/06/15 Analyzed: 05/07/15						
Boron	0.829	0.050	mg/L	0.400	0.430	99.8	70-130	5.37	20	
Calcium	13.7	1.0	"	8.00	8.61	63.4	70-130	16.9	20	QM-01
Magnesium	10.5	1.0	"	8.00	3.08	92.7	70-130	1.03	20	
Sodium	27.1	1.0	"	8.00	24.2	37.0	70-130	16.2	20	QM-01



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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 AD52423 - General Preparation</b>										
<b>Blank (AD52423-BLK1)</b>				Prepared: 04/24/15 Analyzed: 04/29/15						
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>Blank (AD52423-BLK2)</b>				Prepared: 04/24/15 Analyzed: 04/29/15						
Biochemical Oxygen Demand	ND	5.0	mg/L							
<b>LCS (AD52423-BS1)</b>				Prepared: 04/24/15 Analyzed: 04/29/15						
Biochemical Oxygen Demand	215	5.0	mg/L	200		108	84-115			
<b>Duplicate (AD52423-DUP1)</b>				<b>Source: 15D2550-01</b>		Prepared: 04/24/15 Analyzed: 04/29/15				
Biochemical Oxygen Demand	479	5.0	mg/L		514			7.05	30	
<b>Batch AD52751 - General Preparation</b>										
<b>Blank (AD52751-BLK1)</b>				Prepared: 04/27/15 Analyzed: 04/28/15						
Total Suspended Solids	ND	1.0	mg/L							
<b>Duplicate (AD52751-DUP1)</b>				<b>Source: 15D2556-01</b>		Prepared: 04/27/15 Analyzed: 04/28/15				
Total Suspended Solids	112	1.0	mg/L		108			3.20	30	
<b>Duplicate (AD52751-DUP2)</b>				<b>Source: 15D2563-01</b>		Prepared: 04/27/15 Analyzed: 04/28/15				
Total Suspended Solids	143	1.0	mg/L		139			2.84	30	
<b>Batch AD52772 - General Preparation</b>										
<b>Blank (AD52772-BLK1)</b>				Prepared & Analyzed: 04/27/15						
Silica	ND	1.0	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 AD52772 - General Preparation</b>										
<b>LCS (AD52772-BS1)</b>				Prepared & Analyzed: 04/27/15						
Silica	10.3	1.0	mg/L	10.0		103	80-120			
<b>LCS Dup (AD52772-BSD1)</b>				Prepared & Analyzed: 04/27/15						
Silica	10.3	1.0	mg/L	10.0		103	80-120	0.756	15	
<b>Duplicate (AD52772-DUP1)</b>				<b>Source: 15D2550-02</b>		Prepared & Analyzed: 04/27/15				
Silica	17.8	2.0	mg/L		18.1			1.73	20	
<b>Matrix Spike (AD52772-MS1)</b>				<b>Source: 15D2550-02</b>		Prepared & Analyzed: 04/27/15				
Silica	27.0	4.0	mg/L	10.0	18.1	88.7	85-115			
<b>Matrix Spike Dup (AD52772-MSD1)</b>				<b>Source: 15D2550-02</b>		Prepared & Analyzed: 04/27/15				
Silica	27.3	4.0	mg/L	10.0	18.1	91.8	85-115	1.15	15	
<b>Batch AD52926 - General Preparation</b>										
<b>Blank (AD52926-BLK1)</b>				Prepared & Analyzed: 04/29/15						
Ammonia as NH3	ND	0.50	mg/L							
<b>LCS (AD52926-BS1)</b>				Prepared & Analyzed: 04/29/15						
Ammonia as NH3	5.96	0.50	mg/L	6.10		97.7	90-110			
<b>LCS Dup (AD52926-BSD1)</b>				Prepared & Analyzed: 04/29/15						
Ammonia as NH3	6.07	0.50	mg/L	6.10		99.5	90-110	1.76	10	
<b>Matrix Spike (AD52926-MS1)</b>				<b>Source: 15D2735-01</b>		Prepared & Analyzed: 04/29/15				
Ammonia as NH3	11.9	0.50	mg/L	12.2	ND	97.7	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
<b>Batch AD52926 - General Preparation</b>										
<b>Matrix Spike Dup (AD52926-MSD1)</b>		<b>Source: 15D2735-01</b>		Prepared & Analyzed: 04/29/15						
Ammonia as NH3	11.7	0.50	mg/L	12.2	ND	96.0	85-115	1.80	20	
<b>Batch AD52929 - General Preparation</b>										
<b>Blank (AD52929-BLK1)</b>		Prepared: 04/29/15 Analyzed: 05/01/15								
Total Dissolved Solids	ND	10	mg/L							
<b>Duplicate (AD52929-DUP1)</b>		<b>Source: 15D2440-01</b>		Prepared: 04/29/15 Analyzed: 05/01/15						
Total Dissolved Solids	564	10	mg/L		544			3.61	15	
<b>Duplicate (AD52929-DUP2)</b>		<b>Source: 15D2794-02</b>		Prepared: 04/29/15 Analyzed: 05/01/15						
Total Dissolved Solids	1090	10	mg/L		1120			2.89	15	
<b>Batch AE50418 - General Prep</b>										
<b>Blank (AE50418-BLK1)</b>		Prepared & Analyzed: 05/04/15								
Phosphorus, total	ND	0.040	mg/L							
<b>LCS (AE50418-BS1)</b>		Prepared & Analyzed: 05/04/15								
Phosphorus, total	0.196	0.040	mg/L	0.200		98.0	85-115			
<b>Duplicate (AE50418-DUP1)</b>		<b>Source: 15D2478-05</b>		Prepared & Analyzed: 05/04/15						
Phosphorus, total	2.17	0.40	mg/L		2.19			0.610	20	
<b>Matrix Spike (AE50418-MS1)</b>		<b>Source: 15D2478-05</b>		Prepared & Analyzed: 05/04/15						
Phosphorus, total	3.95	0.40	mg/L	2.00	2.19	88.3	70-130			



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<b>Batch AE50418 - General Prep</b>										
<b>Matrix Spike Dup (AE50418-MSD1)</b>		<b>Source: 15D2478-05</b>		Prepared & Analyzed: 05/04/15						
Phosphorus, total	3.95	0.40	mg/L	2.00	2.19	88.3	70-130	0.00	20	
<b>Batch AE50701 - General Prep</b>										
<b>LCS (AE50701-BS1)</b>		Prepared & Analyzed: 05/08/15								
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120			
<b>LCS Dup (AE50701-BSD1)</b>		Prepared & Analyzed: 05/08/15								
Total Kjeldahl Nitrogen	3.04	1.0	mg/L	2.98		102	80-120	0.00	20	
<b>Matrix Spike (AE50701-MS1)</b>		<b>Source: 15D2497-01</b>		Prepared & Analyzed: 05/08/15						
Total Kjeldahl Nitrogen	3.96	1.0	mg/L	2.98	1.58	80.1	75-125			
<b>Matrix Spike Dup (AE50701-MSD1)</b>		<b>Source: 15D2497-01</b>		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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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: John Simonetti

Report Date: 05/12/15 10:19  
Project No: -  
Project ID: Reclaimed Study

Order Number  
15D2550

Receipt Date/Time  
04/23/2015 23:25

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 AD52429 - General Preparation</b>										
<b>Blank (AD52429-BLK1)</b>				Prepared & Analyzed: 04/24/15						
Chloride	ND	0.50	mg/L							
Nitrate as N	ND	0.20	"							
Nitrite as N	ND	0.20	"							
<b>LCS (AD52429-BS1)</b>				Prepared & Analyzed: 04/24/15						
Nitrate as N	5.73	0.20	mg/L	5.56		103	90-110			
Chloride	11.4	0.50	"	11.1		103	90-110			
Nitrite as N	5.65	0.20	"	5.56		102	90-110			
<b>Duplicate (AD52429-DUP1)</b>				<b>Source: 15D2573-01</b>		Prepared & Analyzed: 04/25/15				
Nitrate as N	8.62	0.20	mg/L		8.61			0.115	20	
Chloride	24.6	2.5	"		25.0			1.57	20	
Nitrite as N	ND	0.20	"		ND				20	
<b>Matrix Spike (AD52429-MS1)</b>				<b>Source: 15D2573-01</b>		Prepared & Analyzed: 04/25/15				
Nitrate as N	14.4	1.0	mg/L	5.56	8.61	105	80-120			
Nitrite as N	5.33	1.0	"	5.56	ND	96.0	80-120			
Chloride	36.2	2.5	"	11.1	25.0	101	80-120			
<b>Matrix Spike (AD52429-MS2)</b>				<b>Source: 15D2569-01</b>		Prepared & Analyzed: 04/25/15				
Chloride	19.6	0.50	mg/L	11.1	8.67	98.7	80-120			
Nitrate as N	5.81	0.20	"	5.56	ND	105	80-120			
Nitrite as N	5.73	0.20	"	5.56	ND	103	80-120			
<b>Matrix Spike Dup (AD52429-MSD1)</b>				<b>Source: 15D2573-01</b>		Prepared & Analyzed: 04/25/15				
Chloride	36.0	2.5	mg/L	11.1	25.0	99.2	80-120	0.539	20	
Nitrite as N	5.33	1.0	"	5.56	ND	95.9	80-120	0.104	20	
Nitrate as N	14.4	1.0	"	5.56	8.61	104	80-120	0.348	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: John Simonetti

Report Date: 05/12/15 10:19  
Project No: -  
Project ID: Reclaimed Study

Order Number

15D2550

Receipt Date/Time

04/23/2015 23:25

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-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.
- 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

<b>Company Name:</b> West Bay Sanitary District		<b>Project ID:</b> Reclaimed Water Study		Signature below authorizes work under terms stated on reverse side.										<b>Analysis Request</b>		<b>Sample Notes</b>		<b>TAT</b>	
<b>Mailing Address:</b>		<b>Project No.:</b>		<b>PO#</b>		<b>Site Contact:</b>		<b>Sampling</b>		<b>Container</b>		<b>Preservative</b>		<b>Matrix</b>		<b>Lab Approval Required For Rush</b>			
<b>Project Contact &amp; Email (Hardcopy or PDF to):</b> Mark Praturion <a href="mailto:mpraturion@westbaysanitary.org">mpraturion@westbaysanitary.org</a> Phone/Fax:		<b>Date</b>		<b>Time</b>		<b>40ml Vial</b>		<b>Glass</b>		<b>Sleeve</b>		<b>HCL</b>		<b>HNO3</b>		<b>H2SO4</b>		<b>Other</b>	
<b>Field Sampler - Print Name &amp; Signature</b>		<b>Date</b>		<b>Time</b>		<b>40ml Vial</b>		<b>Glass</b>		<b>Sleeve</b>		<b>HCL</b>		<b>HNO3</b>		<b>H2SO4</b>		<b>Other</b>	
<b>Sample Identification</b>		<b>Date</b>		<b>Time</b>		<b>40ml Vial</b>		<b>Glass</b>		<b>Sleeve</b>		<b>HCL</b>		<b>HNO3</b>		<b>H2SO4</b>		<b>Other</b>	
Alpine Rd 042215-A		4/22/15		2:44		2		1		1		1		1		1		1	
Sand Hill Rd 042215-B		4/22/15		2:44		2		1		1		1		1		1		1	
Relinquished by: <i>Mark Praturion</i>		Received by: <i>[Signature]</i>		Date: 4/22/15		Time: 1:36		CDPH Write On EDT Report? Yes <input type="radio"/> No <input type="radio"/>		State System Number:		Lab Approval Required For Rush		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"/>		TAT			
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date: 4/23/15		Time: 2:50		CDPH Write On EDT Report? Yes <input type="radio"/> No <input type="radio"/>		State System Number:		Lab Approval Required For Rush		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"/>		TAT			
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date: 4/23/15		Time: 1:45		CDPH Write On EDT Report? Yes <input type="radio"/> No <input type="radio"/>		State System Number:		Lab Approval Required For Rush		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"/>		TAT			
Relinquished by: <i>[Signature]</i>		Received by: <i>[Signature]</i>		Date: 4/23/15		Time: 1:45		CDPH Write On EDT Report? Yes <input type="radio"/> No <input type="radio"/>		State System Number:		Lab Approval Required For Rush		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"/>		TAT			
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- 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