INORGANIC CHEMICALS ANALYSIS

Date of Report : July 11, 2017
Laboratory Name : **FGL Environmental**
Sampled On : 06/19/2017-11:00
Received On : 06/19/2017-14:30
Completed On : 06/22/2017

Sample ID : STK1737645-001
Approved By **Kelly A. Dunnahoo, B.S.** Digitally signed by Kelly A. Dunnahoo, B.S. Title: Laboratory Director Date: 2017-07-11
Sampler : Ed Morley
Employed By : Stockton East Water

System Name : STOCKTON EAST WATER DISTRICT Number : 3910006-005 **EDT**

Name Or Number of Sample Source : CALAVERAS RIVER AT BELLOTA - RAW

User ID : PTA
Date/Time of Sample : 1706191100 YYMMDDTTTT
Submitted By : **FGL Environmental**
Station Number : 3910006-005
Laboratory Code : 5 8 6 7
Phone # : (805) 392-2000

GENERAL MINERAL & PHYSICAL

MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
	mg/L	Total Hardness (as CaCO3)	00900	55.5	1
	mg/L	Calcium (Ca)	00916	14	1
	mg/L	Magnesium (Mg)	00927	5	1
	mg/L	Sodium (Na)	00929	6	1
	mg/L	Potassium (K)	00937	1	1
	meq/L	Total Cations		1.4	
	mg/L	Total Alkalinity (as CaCO3)	00410	50	10
	mg/L	Hydroxide (OH)	71830	ND	10
	mg/L	Carbonate (CO3)	00445	ND	10
	mg/L	Bicarbonate (HCO3)	00440	60	10
* [2]	mg/L	Sulfate (SO4)	00945	9.8	0.5
* [2]	mg/L	Chloride (Cl)	00940	3	1
45	mg/L	Nitrate (NO3)	71850	ND	2
2	mg/L	Fluoride (F)	00951	ND	0.1
	meq/L	Total Anions		1.3	
	Std Units	pH	00403	8.3	
** [2]	umhos/cm2	Specific Conductance (E.C.)	00095	137	1
*** [2]	mg/L	Total Filterable Residue	70300	90	40
15	Units	Apparent Color (Unfiltered)	00081	15	3
3	TON	Odor Threshold at 60 °C	00086	2	1

MCL - Maximum Contaminant Level, DLR -Detection Limit for Reporting Purpose, ND - Not Detected at or above DLR
[2] Indicates Secondary Drinking Water Standards(Recommended-Upper-Short Term) * 250-500-600 ** 900-1600-2200 *** 500-1000-1500

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GENERAL MINERAL & PHYSICAL

MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
5	NTU	Lab Turbidity	82079	1.6	0.1
0.5 [2]	mg/L	MBAS	38260	ND	0.05

REGULATED INORGANIC

MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
1000	ug/L	Aluminum	01105	ND	50
6	ug/L	Antimony	01097	ND	6
10	ug/L	Arsenic	01002	ND	2
1000	ug/L	Barium	01007	ND	100
4	ug/L	Beryllium	01012	ND	1
5	ug/L	Cadmium	01027	ND	1
50	ug/L	Chromium (Total Cr)	01034	ND	10
1000 [2]	ug/L	Copper	01042	ND	50
300 [2]	ug/L	Iron	01045	ND	100
15	ug/L	Lead	01051	ND	5
50 [2]	ug/L	Manganese	01055	20	20
2	ug/L	Mercury	71900	ND	1
100	ug/L	Nickel	01067	ND	10
50	ug/L	Selenium	01147	ND	5
100 [2]	ug/L	Silver	01077	ND	10
2	ug/L	Thallium	01059	ND	1
	ug/L	Zinc	01092	ND	50

ADDITIONAL INORGANIC

MCL	UNITS	CHEMICALS	ENTRY	RESULT	DLR
---	ug/L	Boron	01020	ND	100
		Langelier Index at 20 °C	71814	-0.2	
10	mg/L	Nitrate as N (Nitrogen)	00618	ND	0.4
10	mg/L	Nitrate + Nitrite as N	A-029	ND	0.2
1	mg/L	Nitrite as N (Nitrogen)	00620	ND	0.4
---	ug/L	Vanadium	01087	ND	3
		Aggressiveness Index	82383	11.5	

MCL - Maximum Contaminant Level, DLR -Detection Limit for Reporting Purpose, ND - Not Detected at or above DLR
[2] Indicates Secondary Drinking Water Standards(Recommended-Upper-Short Term)

July 11, 2017

Stockton East Water Dist.
P.O. Box 5157
Stockton, CA 95205

Lab ID : STK1737645-001
Customer ID : 3-8528

Sampled On : June 19, 2017-11:00
Sampled By : Ed Morley
Received On : June 19, 2017-14:30
Matrix : Drinking Water

Description : Calaveras River at Belotta - R
Project : Annual SW Monitoring

Sample Result - Inorganic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation Method	Sample Preparation Date/ID	Sample Analysis Method	Sample Analysis Date/ID
General Mineral								
Total Hardness as CaCO3	55.5	--	mg/L		200.7	06/20/17:207272	200.7	06/20/17:209096
Calcium	14	1	mg/L		200.7	06/20/17:207272	200.7	06/20/17:209096
Magnesium	5	1	mg/L		200.7	06/20/17:207272	200.7	06/20/17:209096
Potassium	1	1	mg/L		200.7	06/20/17:207272	200.7	06/20/17:209096
Sodium	6	1	mg/L		200.7	06/20/17:207272	200.7	06/20/17:209096
Total Cations	1.4	--	meq/L		200.7	06/20/17:207272	200.7	06/20/17:209096
Boron	ND	0.1	mg/L		200.7	06/20/17:207272	200.7	06/20/17:209096
Copper	ND	10	ug/L	1000[2]	200.7	06/20/17:207272	200.7	06/20/17:209096
Iron	80	30	ug/L	300[2]	200.7	06/20/17:207272	200.7	06/20/17:209096
Manganese	20	10	ug/L	50[2]	200.7	06/20/17:207272	200.7	06/20/17:209096
Zinc	ND	20	ug/L		200.7	06/20/17:207272	200.7	06/20/17:209096
Total Alkalinity (as CaCO3)	50	10	mg/L		2320B	06/21/17:207300	2320B	06/21/17:209122
Hydroxide as OH	ND	10	mg/L		2320B	06/21/17:207300	2320B	06/21/17:209122
Carbonate as CO3	ND	10	mg/L		2320B	06/21/17:207300	2320B	06/21/17:209122
Bicarbonate as HCO3	60	10	mg/L		2320B	06/21/17:207300	2320B	06/21/17:209122
Sulfate	9.8	0.5	mg/L	500[2]	300.0	06/20/17:207483	300.0	06/20/17:209332
Chloride	3	1	mg/L	500[2]	300.0	06/20/17:207483	300.0	06/20/17:209332
Nitrate as NO3	ND	0.5	mg/L	45	300.0	06/20/17:207483	300.0	06/20/17:209332
Nitrite as N	ND	0.2	mg/L	1	300.0	06/20/17:207483	300.0	06/20/17:209332
Nitrate + Nitrite as N	0.1	0.1	mg/L	10	300.0	06/20/17:207483	300.0	06/20/17:209332
Fluoride	ND	0.1	mg/L	2	300.0	06/20/17:207483	300.0	06/20/17:209332
Total Anions	1.3	--	meq/L		2320B	06/21/17:207300	2320B	06/21/17:209122
pH	8.3	--	units		4500-H B	06/19/17:311285	4500HB	06/19/17:311716
Specific Conductance	137	1	umhos/cm	1600[2]	2510B	06/21/17:207299	2510B	06/21/17:209099
Total Dissolved Solids	90	20	mg/L	1000[2]	2540CE	06/21/17:207335	2540C	06/22/17:209186
MBAS Extraction	ND	0.1	mg/L	0.5[2]	5540C	06/21/17:207390	5540C	06/21/17:209200
Aggressiveness Index	11.5	--	--		4500-H B	06/19/17:311285	4500HB	06/19/17:311716
Langelier Index (20°C)	-0.2	--	--		4500-H B	06/19/17:311285	4500HB	06/19/17:311716
Nitrate Nitrogen	0.1	--	mg/L	10	300.0	06/20/17:207483	300.0	06/20/17:209332
Metals, Total								
Aluminum	10	10	ug/L	1000	200.8	06/21/17:207323	200.8	06/21/17:209181
Antimony	ND	1	ug/L	6	200.8	06/21/17:207323	200.8	06/21/17:209181
Arsenic	ND	2	ug/L	10	200.8	06/21/17:207323	200.8	06/21/17:209181
Barium	21.9	0.2	ug/L	1000	200.8	06/21/17:207326	200.8	06/21/17:209192
Beryllium	ND	1	ug/L	4	200.8	06/21/17:207323	200.8	06/21/17:209181

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July 11, 2017
Description : Calaveras River at Belotta - R

Lab ID : STK1737645-001
Customer ID : 3-8528

Sample Result - Inorganic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total								
Cadmium	ND	0.2	ug/L	5	200.8	06/21/17:207323	200.8	06/21/17:209181
Chromium	4	1	ug/L	50	200.8	06/21/17:207326	200.8	06/21/17:209192
Lead	ND	0.5	ug/L	15	200.8	06/21/17:207323	200.8	06/21/17:209181
Mercury	ND	0.02	ug/L	2	245.1	06/22/17:207371	245.1	06/22/17:209207
Nickel	ND	1	ug/L	100	200.8	06/21/17:207323	200.8	06/21/17:209181
Selenium	ND	1	ug/L	50	200.8	06/21/17:207326	200.8	06/21/17:209192
Silver	ND	1	ug/L	100[2]	200.8	06/21/17:207323	200.8	06/21/17:209181
Thallium	ND	0.2	ug/L	2	200.8	06/21/17:207323	200.8	06/21/17:209181
Vanadium	ND	2	ug/L		200.8	06/21/17:207323	200.8	06/21/17:209181
Wet Chemistry								
Color	15	5	units	15	2120B	06/19/17:311302	2120B	06/19/17:311743
Odor	2	1	TON	3	2150B	06/19/17:311315	2150B	06/19/17:311756
Turbidity	1.6	0.1	NTU	5	2130B	06/19/17:311301	2130B	06/19/17:311742

ND=Non-Detected. PQL=Practical Quantitation Limit. * PQL adjusted for dilution.
MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.