

# Clinical Laboratory of San Bernardino, Inc.



Rowland Water District  
P. O. Box 8460  
Rowland Heights CA, 91748

Project: Recycled Water  
Sub Project:  
Project Manager: Dave Warren

Work Order: 11E0804  
Received: 05/11/11 16:50  
Reported: 05/26/11

**Res 11** **11E0804-02 (Water)** **Sample Date:** 05/11/11 9:15 **Sampler:** Dave Miller

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
<b>Field Analyses</b>									
pH (Field)	Field	7.33	pH Units			05/11/11	05/11/11	1120379	Note
Temperature (Field)	Field	22	°C			05/11/11	05/11/11	1120379	
pH (Field)	Field	7.33	pH Units			05/11/11	05/11/11	1121022	
Temperature (Field)	Field	22.0	°C			05/11/11	05/11/11	1121022	
<b>General Physical Analyses</b>									
Apparent Color	SM 2120B	ND	Color Units	3.0	15	05/12/11	05/12/11	1120331	Note
Odor Threshold	EPA 140.1M	1	TON	1	3	05/12/11	05/12/11	1120331	
Turbidity	EPA 180.1	0.2	NTU	0.1	5	05/12/11	05/12/11	1120331	
<b>General Chemical Analyses</b>									
Alkalinity, Total (as CaCO3)	SM 2320 B	430	mg/L	5.0		05/16/11	05/16/11	1121022	Note
Ammonia (NH3)	EPA 350.1	ND	mg/L	0.60		05/18/11	05/18/11	1121125	
Bicarbonate (HCO3)	SM 2320 B	520	mg/L	5.0		05/16/11	05/16/11	1121022	
Calcium (Ca)	SM3500CaD	200	mg/L	1.0		05/16/11	05/16/11	1121022	
Carbonate (CO3)	SM 2320B	ND	mg/L	5.0		05/16/11	05/16/11	1121022	
Chloride (Cl)	EPA 300.0	170	mg/L	1.0	500	05/12/11	05/12/11	1120347	
Langelier Index at Source Tmp	SM 203	0.80				05/11/11	05/11/11	1121022	
Langelier Index at 60 C	SM 203	1.38				05/11/11	05/11/11	1121022	
Aggressive Index	SM 203	12.65				05/11/11	05/11/11	1121022	
Cyanide (CN)	SM4500CNF	ND	ug/L	100	150	05/16/11	05/16/11	1121027	
Specific Conductance (E.C.)	SM 2510B	1700	umhos/cm	2.0	1600	05/16/11	05/16/11	1121022	
Fluoride (F)	EPA 300.0	0.49	mg/L	0.10	2	05/12/11	05/12/11	1120347	
Hardness, Total (as CaCO3)	SM 2340 C	710	mg/L	5.0		05/16/11	05/16/11	1121022	
Hydroxide (OH)	SM 2320B	ND	mg/L	5.0		05/16/11	05/16/11	1121022	
MBAS (LAS Mole. Wt 342.4)	SM 5540C	ND	mg/L	0.10	0.5	05/13/11	05/13/11	1120357	
Nitrate (NO3)	EPA 300.0	32	mg/L	2.0	45	05/12/11	05/12/11	1120347	
Nitrate + Nitrite (as N)	EPA 300.0	7200	ug/L	400	10000	05/12/11	05/12/11	1120347	
Nitrite as N (NO2-N)	EPA 300.0	ND	ug/L	400	1000	05/12/11	05/12/11	1120347	
Perchlorate (ClO4)	EPA 314.0	ND	ug/L	4.0	6	05/11/11	05/13/11	1120276	
pH (Lab)	SM 4500HB	7.6	pH Units			05/12/11	05/12/11	1121022	
Ortho-Phosphate (PO4)	HACH 8048	0.35	mg/L	0.020		05/13/11	05/13/11	1120360	
Sulfate (SO4)	EPA 300.0	270	mg/L	1.0	500	05/19/11	05/19/11	1121329	
Non-Filterable Residue/TSS	SM 2540D	2.0	mg/L	2.0		05/17/11	05/18/11	1121132	
Total Filterable Residue/TDS	SM 2540C	1200	mg/L	5.0	1000	05/17/11	05/19/11	1121018	
Total Organic Carbon	SM 5310B	8.2	mg/L	0.30		05/17/11	05/17/11	1121033	

**Metals** Note

Stu Styles  
Client Services Manager

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**Res 11** **11E0804-02 (Water)** **Sample Date:** 05/11/11 9:15 **Sampler:** Dave Miller

Analyte	Method	Result	Units	Rep. Limit	MCL	Prepared	Analyzed	Batch	Qualifier
<b>Metals</b>									
Aluminum (Al)	EPA 200.7	ND	ug/L	50	200	05/18/11	05/18/11	1121157	Note
Antimony (Sb)	SM3113-B	ND	ug/L	6.0	6	05/24/11	05/24/11	1122144	
Arsenic (As)	SM3113-B	ND	ug/L	2.0	10	05/19/11	05/20/11	1121332	
Barium (Ba)	EPA 200.7	ND	ug/L	100	1000	05/18/11	05/18/11	1121157	
Beryllium (Be)	SM3113-B	ND	ug/L	1.0	4	05/19/11	05/19/11	1121254	
<b>Boron (B)</b>	EPA 200.7	<b>260</b>	ug/L	100		05/18/11	05/18/11	1121157	
Cadmium (Cd)	SM3113-B	ND	ug/L	1.0	5	05/25/11	05/25/11	1122186	
Chromium (Total Cr)	SM3113-B	ND	ug/L	10	50	05/25/11	05/25/11	1122187	
<b>Copper (Cu)</b>	EPA 200.7	<b>180</b>	ug/L	50	1000	05/18/11	05/18/11	1121157	
Iron (Fe)	EPA 200.7	ND	ug/L	100	300	05/18/11	05/18/11	1121157	
Lead (Pb)	SM3113-B	ND	ug/L	5.0		05/23/11	05/23/11	1122027	
<b>Magnesium (Mg)</b>	EPA 200.7	<b>55</b>	mg/L	1.0		05/16/11	05/16/11	1121024	
Manganese (Mn)	EPA 200.7	ND	ug/L	20	50	05/18/11	05/18/11	1121157	
Mercury (Hg)	EPA 245.1	ND	ug/L	2.0	2	05/19/11	05/19/11	1121247	
Nickel (Ni)	SM3113-B	ND	ug/L	10	100	05/25/11	05/25/11	1122185	
<b>Potassium (K)</b>	EPA 200.7	<b>2.3</b>	mg/L	1.0		05/16/11	05/16/11	1121024	
<b>Selenium (Se)</b>	SM3113-B	<b>6.0</b>	ug/L	5.0	50	05/19/11	05/19/11	1121302	
<b>Silica (SiO2)</b>	EPA 200.7	<b>46</b>	mg/L	0.50		05/18/11	05/18/11	1121153	
Silver (Ag)	SM3113-B	ND	ug/L	10	100	05/18/11	05/18/11	1121194	
<b>Sodium (Na)</b>	EPA 200.7	<b>120</b>	mg/L	5.0		05/25/11	05/25/11	1122188	
Thallium (Tl)	EPA 200.9	ND	ug/L	1.0	2	05/24/11	05/24/11	1122055	
<b>Vanadium (V)</b>	EPA 200.9	<b>8.5</b>	ug/L	3.0		05/16/11	05/16/11	1121028	
Zinc (Zn)	EPA 200.7	ND	ug/L	50	5000	05/18/11	05/18/11	1121157	

### Anion / Cation Balance

<b>Total Anions</b>	Calculated	<b>19.5</b>	meq/L	0.63		05/25/11	05/19/11	[CALC]	Note
<b>Total Cations</b>	Calculated	<b>19.8</b>	meq/L	0.38		05/25/11	05/25/11	[CALC]	

### Volatile Organic Analyses

<b>Trichloroethylene (TCE)</b>	EPA 524.2	<b>0.62</b>	ug/L	0.50	5	05/13/11	05/15/11	1120245	Note
<b>Tetrachloroethylene (PCE)</b>	EPA 524.2	<b>14</b>	ug/L	0.50	5	05/13/11	05/15/11	1120245	
Surrogate: Bromofluorobenzene	EPA 524.2	116 %				05/13/11	05/15/11	1120245	
Surrogate: 1,2-Dichlorobenzene-d4	EPA 524.2	125 %				05/13/11	05/15/11	1120245	

Note MCL's are for Potable/Drinking water.

ND Analyte NOT DETECTED at or above the reporting limit

Stu Styles  
Client Services Manager