

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA
 DECEMBER 2011 WATER QUALITY ANALYSES

FIELD MEASUREMENTS	YSI INSTRUMENT				HACH 2100P
TIME (HH:MM)	TEMP (°C) ¹	pH	DO (mg/l) ²	EC (umhos/cm) ³	TURBIDITY (NTU) ⁴
10:49 AM	12.62	---	9.35	3721	32.6

FIELD OBSERVATIONS:

10:49 AM Ambient Temperature ≈65 °F Water color brown. Blue skies. Slight breeze. Foam present. No odor.

BACTERIAL ANALYSIS I.V. ENVIRONMENTAL LABORATORY IN CALEXICO, CA.			CONCENTRATION (MPN/100ml) ⁵
TIME	STORET CODE	ANALYSIS METHOD	E. COLI CONCENTRATION
10:49 AM	31648	Multiple Tube Fermentation	90,817 ⁶

¹ Temperature is measured in units of degrees Celsius (°C)

² Dissolved oxygen (DO) is measured in units of milligrams per liter (mg/l)

³ Electrical conductivity (EC) is measured in units of micromhos per centimeter (umhos/cm)

⁴ Turbidity is measured in units of Nephelometer Turbidity Units (NTU)

⁵ E. coli density is reported as the most probable number of coliform per 100 milliliters of water sample (MPN/100 ml).

⁶ The average of two bacterial sample results.

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NUTRIENT ANALYSIS CDPH- SOUTHERN CALIFORNIA LABORATORY ⁷				
CONSTITUENT (GRAB)	STORET CODE	METHOD	REPORTING LIMIT	CONCENTRATION (mg/l) ⁸
MBAS	38260	SM 5540C	0.1	NR ⁹
Total Phosphate	00665	EPA 365.4	0.5	NR
O-Phosphate Phosphorous	00665	EPA 300.1	0.4	NR
Phenol	32730	EPA 420.1	0.05	NR
Cyanide	00720	SM 4500C(E)	0.05	NR
Ammonia - Nitrogen	00610	SM 4500	0.1	NR
Nitrate - Nitrogen	71850	EPA 300.1	0.1	0.42
Nitrite - Nitrogen	00630	EPA 300.1	0.1	<RL ¹⁰
Hardness (as CaCO ₃)	00900	EPA 130.2	1	731
Alkalinity	00410	EPA 310.1	1	288
Bicarbonate	00440			NR
Total Dissolved Solids	70300	EPA 160.1	10	2277
Total Suspended Solids	00530	EPA 160.2	10	53.6
Turbidity (NTU)	82078	EPA 180.1	0.1	32.6
BOD	00310	SM 5210B	2	NR
COD	00340	SM 5220	1	NR

⁷ California State Department of Public Health, Division of Drinking Water and Environmental Management, Sanitation & Radiation Laboratory (South) in Los Angeles, CA

⁸ These concentrations are reported in units of milligrams per liter (mg/l), except for Turbidity which is reported in NTUs

⁹ This analysis was not requested

¹⁰ The concentration of this constituent is reported as less than the Reporting Limit

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METAL ANALYSIS CDPH – SOUTHERN CALIFORNIA LABORATORY				
CONSTITUENT (GRAB)	STORET CODE	METHOD	REPORTING LIMIT	CONCENTRATION (µg/l) ¹¹
As-Arsenic	1002	EPA 200.8	1	3.48
Cd-Cadmium	1027	EPA 200.8	1	<RL
Cr-Chromium	1034	EPA 200.8	10	<RL
Cu-Copper	1042	EPA 200.8	10	<RL
Pb-Lead	1051	EPA 200.8	10	<RL
Hg-Mercury	71900	EPA 200.8	1	<RL
Se-Selenium	1147	EPA 200.8	10	<RL
Zn-Zinc	1092	EPA 200.8	10	11.1

¹¹ These concentrations are reported in units of micrograms per liter (µg/l).