

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
COLORADO RIVER BASIN REGION

NEW RIVER @ THE INTERNATIONAL BOUNDARY - CALEXICO, CALIFORNIA
 JANUARY- APRIL 2012 WATER QUALITY DATA

Field Measurements:

DATE	TIME	TEMP	PH	DO	EC	TURBIDITY
(MM/DD/YY)	(HH:MM)	(°C) ¹		(mg/l) ²	(µmhos/cm) ³	(NTU) ^{4,5}
01/24/12	10:27	12.82	7.87	8.06	5094	45.2
04/25/12	12:10	24.9			5560	37.3

Field Observations:

01/24/12 10:18- Water color green/brown. Foam present. Odor present. Sky clear. No wind. Ambient air temperature 75 °F. Initial %D.O. 101.7. Final %D.O. 102.

04/25/12 12:10- Water color green/brown. No Foam. Slight odor. Mostly clear sky. Slight breeze. Ambient air temperature 96.8 °F. Initial %D.O. 100. Final %D.O. 89⁶.

Bacterial Analysis:

DATE	TIME	ANALYSIS METHOD ⁷	E. COLI
(MM/DD/YY)	(HH:MM)		(MPN/100ml) ^{8,9}
01/24/12	10:18	Multiple Tube Fermentation	10,025
04/25/12	12:10	Multiple Tube Fermentation	10,915

¹ Water Temperature is reported in units of degrees Celsius (°C).

² Dissolved Oxygen (DO) is reported in units of milligrams per liter.

³ Electrical Conductivity (EC) is reported in units of micromhos per centimeter.

⁴ Turbidity measurements taken in the field.

⁵ Turbidity is reported in units of nephelometer turbidity units (NTUs).

⁶ Dissolved Oxygen concentration not reported because Final% D.O. does not meet Project Data Quality Objective.

⁷ Bacterial analysis completed by Imperial Valley Environmental Laboratory in Calexico, CA.

⁸ Fecal coliform analysis was not requested to be analyzed.

⁹ Escherichia coli (E. coli) density is reported in units of Most Probable Number (MPN) per 100 milliliters.

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DHS – SOUTHERN CALIFORNIA LABORATORY ¹⁰				CONCENTRATION (mg/l) ¹¹
CONSTITUENT	STORET CODE	US EPA METHOD	REPORTING LIMIT	JAN 2012
Ammonia - Nitrogen	00610	350.2	0.1	8.75
Total Suspended Solids	00530	160.2	10	35.6
Turbidity (NTU)	82078	180.1	0.1	24.6

DHS – SOUTHERN CALIFORNIA LABORATORY				CONCENTRATION (ug/l) ¹²
CONSTITUENT	STORET CODE	US EPA METHOD	REPORTING LIMIT	JAN 2012
Se-Selenium	1147	200.8	10	<RL ¹³
Hg-Mercury	71900	200.8	1	<RL

¹⁰ Samples analyzed by California Department of Public Health's Southern California Laboratory in Los Angeles, CA.

¹¹ Milligrams per liter (mg/l).

¹² Micrograms per liter (ug/l).

¹³ The concentration is reported as less than the analytical Reporting Limit (RL).