



Colorado River Basin Regional Water Quality Control Board

Salton Sea Water Quality Monitoring Data – November 1, 2023

Site Characteristics

Site	Lat/Long	Time	Air Temp (°C)	Water Temp (°C)	pH	Dissolved Oxygen (mg/L)	Specific Conductivity (mS/cm)
USGS02	33.23333/ -115.75	1144	27	22.4	8.13	7.19	88.07
USGS03	33.23333/ -115.63333	1240	28.1	21.3	--	11.51	85.87
USGS05	33.149308/ -115.727745	1024	--	17.1	8.26	9.70	85.90

Water Chemistry Results

Bacteria

Analyte	Method	Method Detection Limit	Reporting Limit	USGS02	USGS03	USGS05
Enterococcus (MPN/100 mL)	Enteroalert	--	10	>2400	>2400	>2400

Nutrients

Analyte	Method	Method Detection Limit	USGS02	USGS03	USGS05
Total Phosphorous (mg/L)	SM 4500P B E	0.02	0.14	0.27	0.23
Orthophosphate Phosphorus (mg/L)	SM 4500P B E	0.016	ND	ND	ND
Nitrate/Nitrate as N (mg/L)	EPA 300.0	0.0038	0.068	0.59	0.26
Ammonia as N (mg/L)	SM 4500NH3 H G	0.005	0.4	0.05	0.2
Total Kjeldahl Nitrogen (mg/L)	EPA 351.2	0.5	5.8	6.1	5.7
Sulfate (mg/L)	EPA 300.0	72	20000	19000	20000
Sulfide (mg/L)	SM 4500S2 D	0.10	ND	ND	ND

ND = non detect

Metals/Salts/Solids

Analyte	Method	Method Detection Limit	USGS02	USGS03	USGS05
Chloride (mg/L)	EPA 300.0	61	34000	32000	33000
Total Dissolved Solids (mg/L)	SM 2540C	1000	73000	76000	79000
Suspended Sediment Concentration (mg/L)	ASTM D3977-97	0.1	18	33	50
Total Suspended Solids (mg/L)	SM 2540D	1	32	84	91
Arsenic (µg/L)	EPA 200.8	35	65	64	61
Manganese (µg/L)	EPA 200.8	33	ND	ND	ND
Silver (µg/L)	EPA 200.8	23	ND	ND	ND
Aluminum (µg/L)	EPA 200.7	840	ND	400	800
Cadmium (µg/L)	EPA 200.8	2.5	ND	ND	ND
Total Chromium (µg/L)	EPA 200.8	40	ND	ND	ND
Copper (µg/L)	EPA 200.8	33	ND	ND	ND
Nickel (µg/L)	EPA 200.8	33	ND	ND	ND
Lead (µg/L)	EPA 200.8	33	ND	ND	ND
Zinc (µg/L)	EPA 200.8	50	ND	ND	ND

ND = non detect

Selected Pesticides

Analyte	Method	Method Detection Limit	USGS02	USGS03	USGS05
4,4' DDD (µg/L)	EPA 8081A	0.0090	ND	ND	ND
4,4' DDE (µg/L)	EPA 8081A	0.0063	ND	ND	ND
4,4' DDT (µg/L)	EPA 8081A	0.0053	ND	ND	ND
Aldrin (µg/L)	EPA 8081A	0.0088	ND	ND	ND
Chlordane (µg/L)	EPA 8081A	0.045	ND	ND	ND
Dieldrin (µg/L)	EPA 8081A	0.0082	ND	ND	ND
Endosulfan I (µg/L)	EPA 8081A	0.0076	ND	ND	ND
Endosulfan II (µg/L)	EPA 8081A	0.0080	ND	ND	ND
Endosulfan Sulfate (µg/L)	EPA 8081A	0.0068	ND	ND	ND
Endrin (µg/L)	EPA 8081A	0.0078	ND	ND	ND
Endrin Aldehyde (µg/L)	EPA 8081A	0.0076	ND	ND	ND
Heptachlor (µg/L)	EPA 8081A	0.0068	ND	ND	ND
Heptachlor Epoxide (µg/L)	EPA 8081A	0.0057	ND	ND	ND
Lindane (µg/L)	EPA 8081A	0.0033	ND	ND	ND
Methoxychlor (µg/L)	EPA 8081A	0.029	ND	ND	ND
Toxaphene (µg/L)	EPA 8081A	0.83	ND	ND	ND
Atrazine (µg/L)	EPA 8270C	0.045	0.070	0.054	0.068
Chlorpyrifos (µg/L)	EPA 8270C	0.045	ND	ND	ND
Chlorpyrifos Methyl (µg/L)	EPA 8270C	0.045	ND	ND	ND
Diazinon (µg/L)	EPA 8270C	0.045	ND	ND	ND
Dimethoate (µg/L)	EPA 8270C	0.045	ND	ND	ND
Disulfoton (µg/L)	EPA 8270C	0.045	ND	ND	ND
Malathion (µg/L)	EPA 8270C	0.045	ND	ND	ND
Phosmet (µg/L)	EPA 8270C	0.045	ND	ND	ND
Thionazin (µg/L)	EPA 8270C	0.045	ND	ND	ND
Bifenthrin (ng/L)	EPA 8270M	5.4	ND	ND	ND
Cyfluthrin (ng/L)	EPA 8270M	6.7	ND	ND	ND
Cypermethrin (ng/L)	EPA 8270M	6.3	ND	ND	ND
L-Cyhalothrin (ng/L)	EPA 8270M	5.6	ND	ND	ND
Permethrin (ng/L)	EPA 8270M	7.2	ND	ND	ND

ND = non detect

