



Colorado River Basin Regional Water Quality Control Board

Salton Sea Water Quality Monitoring Data – July 16, 2024

Site Characteristics

Site	Lat/Long	Time	Air Temp (°C)	Water Temp (°C)	pH	Dissolved Oxygen (mg/L)	Specific Conductivity (µS/cm)
USGS03	33.23333/ -115.63333	0645	28.7	31	8.04	0.21	90384
USGS05	33.149308/ -115.727745	0730	31.6	32	8.08	1.96	87543

Water Chemistry Results

Bacteria

Analyte	Method	Method Detection Limit	Reporting Limit	USGS03	USGS05
Enterococcus (MPN/100 mL)	EnterAlert	--	10	20	10

Nutrients

Analyte	Method	Method Detection Limit	USGS03	USGS05
Total Phosphorous (mg/L)	SM 4500P B E	0.02	0.18	0.19
Orthophosphate Phosphorus (mg/L)	SM 4500P B E	0.016	0.018	0.017
Nitrate/Nitrate as N (mg/L)	EPA 300.0	0.0038	0.16	ND
Ammonia as N (mg/L)	SM 4500NH3 H G	0.005	0.5	0.7
Total Kjeldahl Nitrogen (mg/L)	EPA 351.2	0.5	5.4	6.2
Sulfate (mg/L)	EPA 300.0	72	16000	18000
Sulfide (mg/L)	SM 4500S2 D	0.10	ND	ND

ND = non detect

Metals/Salts/Solids

Analyte	Method	Method Detection Limit	USGS03	USGS05
Chloride (mg/L)	EPA 300.0	61	28000	30000
Total Dissolved Solids (mg/L)	SM 2540C	1000	75000	81000
Suspended Sediment Concentration (mg/L)	ASTM D3977-97	0.1	9	8
Total Suspended Solids (mg/L)	SM 2540D	1	19	19
Arsenic (µg/L)	EPA 200.8	35	45	45
Manganese (µg/L)	EPA 200.8	33	75	69
Silver (µg/L)	EPA 200.8	23	ND	ND
Aluminum (µg/L)	EPA 200.7	840	ND	ND
Cadmium (µg/L)	EPA 200.8	2.5	ND	ND
Total Chromium (µg/L)	EPA 200.8	40	ND	ND
Copper (µg/L)	EPA 200.8	33	ND	ND
Nickel (µg/L)	EPA 200.8	33	ND	ND
Lead (µg/L)	EPA 200.8	33	ND	ND
Zinc (µg/L)	EPA 200.8	50	ND	ND

ND = non detect

Selected Pesticides

Analyte	Method	Method Detection Limit	USGS05
4,4' DDD (µg/L)	EPA 8081A	0.0090	ND
4,4' DDE (µg/L)	EPA 8081A	0.0063	ND
4,4' DDT (µg/L)	EPA 8081A	0.0053	ND
Aldrin (µg/L)	EPA 8081A	0.0088	ND
Chlordane (µg/L)	EPA 8081A	0.045	ND
Dieldrin (µg/L)	EPA 8081A	0.0082	ND
Endosulfan I (µg/L)	EPA 8081A	0.0076	ND
Endosulfan II (µg/L)	EPA 8081A	0.0080	ND
Endosulfan Sulfate (µg/L)	EPA 8081A	0.0068	ND
Endrin (µg/L)	EPA 8081A	0.0078	ND
Endrin Aldehyde (µg/L)	EPA 8081A	0.0076	ND
Heptachlor (µg/L)	EPA 8081A	0.0068	ND
Heptachlor Epoxide (µg/L)	EPA 8081A	0.0057	ND
Lindane (µg/L)	EPA 8081A	0.0033	ND
Methoxychlor (µg/L)	EPA 8081A	0.029	ND
Toxaphene (µg/L)	EPA 8081A	0.83	ND
Atrazine (µg/L)	EPA 8270C	0.045	0.076
Chlorpyrifos (µg/L)	EPA 8270C	0.045	ND
Chlorpyrifos Methyl (µg/L)	EPA 8270C	0.045	ND
Diazinon (µg/L)	EPA 8270C	0.045	ND
Dimethoate (µg/L)	EPA 8270C	0.045	ND
Disulfoton (µg/L)	EPA 8270C	0.045	ND
Malathion (µg/L)	EPA 8270C	0.045	ND
Phosmet (µg/L)	EPA 8270C	0.045	ND
Thionazin (µg/L)	EPA 8270C	0.045	ND
Bifenthrin (ng/L)	EPA 8270M	5.4	ND
Cyfluthrin (ng/L)	EPA 8270M	6.7	ND
Cypermethrin (ng/L)	EPA 8270M	6.3	ND
L-Cyhalothrin (ng/L)	EPA 8270M	5.6	ND
Permethrin (ng/L)	EPA 8270M	7.2	ND

ND = non detect

