

Lodi Citizen's Monitoring - Lodi, California
May 2010

8-May 21-May Air temperatures for averaging
 site 1 16.1 19.2
 site 2 16.3
 site 5
 site 7 26.4
 site 7A
 site 8 25.3
 site 9
 site 9A 37 18.3
 site 9A 24 21.6 F
 24.2 C 19.7 C
 75.5 F 67.5 F

Weather: Clear, sunny, calm. (24.2C/ 75.5F) **Last rain:** 4- 30-10 **Season total:** 18.82"
Visual Observations: Odor- All sites- none. **Algae-** Site # 1, 2, 7, 9A-(Jim Elliot)- None. Sites- # 8, 9A-(Lodi High)- Light.
Foam- 1-2, 7,8,9A-(Lodi High) None, site 9A(Jim Elliot) - Separated Bubbles.
Turbidity- Sites- 1, 2, 7, 9A- clear. Site # 8- Turbid.
Flow- Sites # 1, 2, 9A-(JE)- Medium. Site # 7Low. Site # 8- None. Site # 9A-(LH)- High.
Oil- All sites- none.
Litter- Sites- 1, 2, 7, 9A-(JE)- none. Sites- 8- < 5 pieces. Site # 9A-(LH) Mod- (6-10 pieces).
Color- Site # 1- Brown. Site- # 2, 9A-(Jim Elliot)- Green. Site-7, 8, 9A-(Lodi High)- Olive Brown.

River Water Level- River level up, dam closed, Mokelumne River impounded, Lodi Lake filled- 03-01-10.
Monitors: **Sites # 1 Vacrezza Private Property**
Site # 2- Casa de Lodi- Lodi Academy (Teacher- Caren Hall)
Sites # 7- Lodi Lake Park- Near Gazebo- River. Lodi High School- (Teacher- Melissa Turner)- Eryn Warmerdam, Colleen Gibbons, Nathan Shiber, Karina Suarez, Tim Weisenberg, Stefan Fuller, Britany Kim, Ashton Gorman, Max Wiegand, Ben Dockert, Dani Banez, Lori Shideman, Colin Anderson.
Site # 8- West side Lodi Lake, near outfall. Site # 9A- Streamside- Below dam- Lodi High School- (Teacher- Melissa Turner)- Ian Sroufe, Priyank Patel, Dylan Silva, Zyania Lizarraga.
Site # 9A- From WID Bridge- Below dam- Jim Elliot CHS- (Teacher- Tom Bray)- Megan Crutchfield, Alis Sokolova.

Test Site	Date	Time	pH	Water Temperature	Dissolved Oxygen mg/L	Turbidity NTU	(TDS) Conduct. uS	Nitrate, as mg/L Nitrogen	Remarks
Site #1	7-May-10	16:20	7.0	11.8 C	53.2 F	9.1	3.1 ntu	40	0
River before City Storm System inlets			A	A		B	A	A	w weather calm
Site # 2	7-May-10	17:30	7.0	11.2 C	52.2 F	9.2	2.1 ntu	40	0
River near Casa de Lodi			A	A		B	A	A	
Site # 5									no data available
River at 1050 N Lincoln									
Site # 7	7-May-10	15:30	7.1	14.2 C	57.6 F	10.8	2.9 ntu	670	0
River, near Gazebo N/O Lodi Lake			A	A		A	A	D	TDS- error r DO- supersaturaed?
Site # 7A									no data available
East end (So SD) Lodi Lake									
Site # 8	7-May-10	15:30	7.4	15.8 C	60.4 F	10	2.1 ntu	40	0
Lodi Lake Near Storm Drain			A	A		A	A	A	pipe under water
Site # 9									not available
River- Upstream of dam									
Site # 9A	7-May-10	15:50	7.8	14.7 C	58.5 F	10.3	2.5 ntu	40	0
River below WID Dam, streamside (Lodi HS)			A	A		A	A	A	
Site # 9A	7-May-10	15:34	7.2	16.3 C	61.3 F	8.2	3.5 ntu	50	0
River below WID Dam, from bridge (Jim Elliot)			A	A		B	A	A	

21-May-10
Weather: Morning- Overcast and cloudy. Afternoon- Clear, sunny, calm. (19.7C/67.5F) **Last Rain:** 5-10-10 **Season Total:** 19.05"
Visual Observations: Odor- (Jim Elliot)- Sites # 9A- None. (Lodi Academy)# 1-None. # 9 A- Fishy.
Algae- (Jim Elliot)- Site # 9A- None. (Lodi Academy)- Site # 1-None, Site # 9 A- Light.-5%.
Foam- (Jim Elliot)- Site # 9A- Separated Bubbles. (Lodi Academy)- Site # 1- None. Site # 9A- Separated Bubbles.
Turbidity- Site- # 1, 9A- None. Site # 9- Cloudy.
Oil- All sites- none. **Flow-** Sites- #1, 9A- Medium.
Litter- (Jim Elliot)- Site # 9A- None. (Lodi Academy)- Site # 1 - High (11-25 pcs). Site- 9A- None.
Color- (Jim Elliot)- Site # 9- Dark Blue. (Lodi Academy)- Site # 1, 9A- Olive Green.
River Water Level- River level up, dam closed, Mokelumne River impounded, Lodi Lake filled- 03-01-10.

Monitors: **Team # 1- Sites # 1, 9A- Ms. Hall- Lodi Academy**
Team # 2- Site 9A- Jim Elliott- (Tom Bray- Teacher)- Megan Crutchfield, Alis Sokolova, Tyler Nuss

Test Site	Date	Time	pH	Water Temperature	Dissolved Oxygen mg/L	Turbidity NTU	(TDS) Conduct. uS	Nitrate, as mg/L Nitrogen	Remarks
Site #1	21-May-10	16:30	7.6	13.7 C	56.7 F	9.4	3.0 ntu	40	0
River before City Storm System inlets			A	A		A	A	A	leaf litter
Site # 2									Data not available.
River near Casa de Lodi									
Site # 5									Data not available.
River at 1050 N Lincoln									
Site # 7									Data not available.
River, near Gazebo N/O Lodi Lake									
Site # 7A									Data not available.
East end (So SD) Lodi Lake									
Site # 8									Data not available.
Lodi Lake near Storm Drain									
Site # 9	21-May-10	16:50	7.9	14.9 C	58.8 F	9.3	2.9 ntu	40	0
River- Upstream of dam (Lodi Academ)			A	A		A	A	A	flow slighty faster than site 1
Site # 9A	21-May-10	10:43	5.7	14.5 C	58.1 F	10.3	2.1 ntu	50	0
River below WID Dam, From Bridge-below dam. (Jim Elliot)			D	A		A	A	A	overcast & cloudy

GRADE:	pH	Temp	D.O.	Turbidity	TDS	Nitrates
A	7.0 - 8.0	Weather	> 85% Saturation	< 5	< 150	< 1
B	6.5-6.9, 8.1-8.5	and	75-84% Sat.	5 - 20	151 - 300	2 - 3
C	6.0-6.4, 8.6-9.0	condition	65-74% Sat.	21 - 50	301 - 500	4 - 5
D	5.5-5.9, 9.1-9.5	dependent	55-64% Sat.	50 - 150	501 -1000	6 - 10
F	<5.5, >9.5		< 55% Sat., <5.0mg/L	> 150	> 1000	> 10

Temperature	Saturation percentages of Dissolved Oxygen ppm or mg/L				
	100%	85%	75%	65%	55%
0 °C	14.6	12.4	11.0	9.5	8.0
1 °C	14.2	12.1	10.7	9.2	7.8
2 °C	13.9	11.8	10.4	9.0	7.6
3 °C	13.5	11.5	10.1	8.8	7.4
4 °C	13.2	11.2	9.9	8.6	7.3
5 °C	12.8	10.9	9.6	8.3	7.0
6 °C	12.5	10.6	9.4	8.1	6.9
7 °C	12.2	10.4	9.2	7.9	6.7
8 °C	11.9	10.1	8.9	7.7	6.5
9 °C	11.6	9.9	8.7	7.5	6.4
10 °C	11.3	9.6	8.5	7.3	6.2
11 °C	11.1	9.4	8.3	7.2	6.1
12 °C	10.8	9.2	8.1	7.0	5.9
13 °C	10.6	9.0	8.0	6.9	5.8
14 °C	10.4	8.8	7.8	6.8	5.7
	100%	85%	75%	65%	55%
15 °C	10.2	8.7	7.7	6.6	5.6
16 °C	9.9	8.4	7.4	6.4	5.4
17 °C	9.7	8.2	7.3	6.3	5.3
18 °C	9.5	8.1	7.1	6.2	5.2
19 °C	9.3	7.9	7.0	6.0	5.1
20 °C	9.2	7.8	6.9	6.0	5.1
21 °C	9.0	7.7	6.8	5.9	5.0
22 °C	8.8	7.5	6.6	5.7	4.8
23 °C	8.7	7.4	6.5	5.7	4.8
24 °C	8.5	7.2	6.4	5.5	4.7
25 °C	8.4	7.1	6.3	5.5	4.6
26 °C	8.2	7.0	6.2	5.3	4.5
27 °C	8.1	6.9	6.1	5.3	4.5

11 °C	10.1	8.7	7.7	6.6	5.6
12 °C	10.8	9.2	8.1	7.0	5.9
13 °C	10.6	9.0	8.0	6.9	5.8
14 °C	10.4	8.8	7.8	6.8	5.7
15 °C	10.2	8.7	7.7	6.6	5.6
16 °C	9.9	8.4	7.4	6.4	5.4
17 °C	9.7	8.2	7.3	6.3	5.3
18 °C	9.5	8.1	7.1	6.2	5.2
19 °C	9.3	7.9	7.0	6.0	5.1
20 °C	9.2	7.8	6.9	6.0	5.1
21 °C	9.0	7.7	6.8	5.9	5.0
22 °C	8.8	7.5	6.6	5.7	4.8
23 °C	8.7	7.4	6.5	5.7	4.8
24 °C	8.5	7.2	6.4	5.5	4.7
25 °C	8.4	7.1	6.3	5.5	4.6