

Lodi Citizen's Monitoring - Lodi, California
January 2010

Weather: Partly cloudy, sunny, light breeze (12.4C/ 54.3F) **Last rain:** 1-13-10 **Season total:** 7.44"

date **Visual Observations:** **Odor-** All sites- none. **Algae-** sites 1, 2, 7, 9A- light. Site- 8- None.

15-Jan-10 Foam- All sites- none. **Turbidity-** sites 1, 7, 8, none. Site-2, 9-A- cloudy.

Flow- sites 1, 2- Medium. Sites- 7, 8- none. Site- 9A- low. **Oil-** All sites- none.

Litter- Sites- 1, 2, 9-A- none. Sites- 7, 8 - < than 5 pieces.

Color- Sites- 1,8- brown. Sites- 2, 7, 9-A- olive brown.

River Water Level- River level down, dam open, Mokelumne River NOT impounded

Monitors: **Sites # 1, 2** Lodi Academy- (Teacher- Caren Hall)- Students- Josh, Daniella, Katie, Alisha

Sites # 7, 8 Lodi High-Team # 1 (Teacher- Mrs. Turner)- Sarah Galloway, Colin Anderson, Adam Robinson, Elise Robinson, Kevin denHartog, Eryn Warmerdam, Zyania Lizarraga, Brittany Kim

Sites # 9A from the bridge- Jim Elliot CHS- (Teacher- Mr. Bray)- Megan Crutchfield, AlisSokolova, Tyler Nuss

| Test Site | Date | Time | pH | Water Temperature | | Dissolved Oxygen mg/L | Turbidity NTU | (TDS) Conduct. uS | Nitrate, as mg/L Nitrogen | Remarks |
|---|-----------|-------|-----------|-------------------|--------|-----------------------|---------------|-------------------|---------------------------|------------------------------------|
| | | | | C | F | | | | | |
| Site #1 River before City Storm System inlets | 15-Jan-10 | 13:00 | N/A | 10.9 C A | 51.6 F | 11.5 A | N/A | N/A A | N/A | Water is low. |
| Site # 2 River near Casa de Lodi | 15-Jan-10 | 13:20 | N/A | 10.8 C A | 51.4 F | 11.6 A | N/A | N/A | N/A | |
| Site # 5 River at 1050 N Lincoln | | | | | | | | | | no data available |
| Site # 7 River, near Gazebo N/O Lodi Lake | 15-Jan-10 | 15:30 | 8.0 A | 10.7 C A | 51.3 F | 11.5 A | 1.6 ntu A | 30 A | 0 A | |
| Site # 7A East end (S/o SD) Lodi Lake | | | | | | | | | | lake emptied- no data available |
| Site # 8 Lodi Lake | 15-Jan-10 | 15:30 | 7.35 A | 12.1 C A | 53.8 F | 9.96 A | 9.0 ntu A | 40 B | 0 A | stormwater |

| | | | | | | | | | | |
|---|-----------|-------|----------|-------------|--------|-----------------------|--------------|----------|-----|--|
| Near Storm Drain | | | | | | | | | | |
| Site # 9 River- Upstream of dam | | | | | | | | | | not available |
| Site # 9A River below WID Dam, under bridge | 15-Jan-10 | 15:02 | 8.1 A | 10.5 C A | 50.9 F | 3.4 A 9- CHEMET | 6.0 ntu A | N/A A | N/A | DO meter reading low. Used CHEMET |

Weather: Light breeze, calm, partly cloudy(14.0 C/57.2F) **Last rain:** 1-27-10 **Season total:** 10.28"

date **Visual observations:** **Odor-** none. **Algae-** none. **Foam-** All sites- none.

29-Jan-10 Turbidity- Site 1, 7- none. Sites- 2, 8, 9-A- cloudy.

Oil- All sites- none. **Flow-** Sites 2, 3- medium. Sites- 7, 9-A- low. Site- 8- none.

Litter- Site 1, 7, 9-A - none. Site 2 - < 5 pieces. Site 8- Dense- > 50 pieces. **Color-** Site 1- Olive Brown.

Site 2, 9-A - green. Site 7, 8- none. all sites none.

River Water Level- River level down, dam open, Mokelumne River NOT impounded, Lodi Lake emptied

Monitors: **Team # 1-** Sites # 1, 2 - Ms. Hall- Lodi Academy- Josh, Alisha, Daniella, Katie

Team # 2- Sites # 7, 8- Tokay High- (Mrs. Starr)- Jenna Kanegawa, Gordon Wong . Lodi High- Elise Robinson, Adam Robinson, Ethan Sprague.(Plus 5 Tokay Science Olympiad Team members).

Team# 3- Jim Elliot CHS- (Mr. Bray)- Tyler Nuss, 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 River before City Storm System inlets | 29-Jan-10 | 13:40 | 8.2 B | 11.0 C A | 51.8 F | 11.6 A | N/A | N/A | 0 | DO seems supersaturated? |
| Site # 2 River near Casa de Lodi | 29-Jan-10 | 14:10 | 7.8 A | 11.0 C A | 51.8 F | 11.6 A | N/A | N/A | 0 | DO seems supersaturated? |
| Site # 5 River at 1050 N Lincoln | | | | | | | | | | no data available |
| Site # 7 River, near Gazebo N/O Lodi Lake | 29-Jan-10 | 13:34 | 7.9 A | 11.5 C A | 52.7 F | 9.9 A | 1.3 ntu A | 40 A | 0 | |
| Site # 7A East end (S/o SD) Lodi Lake | | | | | | | | | | lake emptied- no data available |

| | | | | | | | | | | |
|---|-----------|-------|----------|-------------|--------|----------------------|--------------|----------|----------|--|
| Site # 8 Lodi Lake near Storm Drain | 29-Jan-10 | 16:25 | 7.8 A | 12.5 C A | 54.5 F | 5.8 F | N/A | 200 B | 0.3 A | at the pipe- runoff |
| Site # 9A River below WID Dam at Bridge | 29-Jan-10 | 15:02 | 8.4 B | 11.9 C A | 52.2 F | 3.3 A CHEMET 9 | 3.0 ntu A | 50 A | ND | DO meter too low. Used CHEMET |

NA = Not Analyzed

ND= None Detected

| <u>GRADE:</u> | <u>pH</u> | <u>Temp</u> | <u>D.O.</u> | <u>Turbidity</u> | <u>TDS</u> | <u>Nitrates</u> |
|---------------|------------------|-------------|---------------------|------------------|------------|-----------------|
| 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 |