

Eagle Lake Herbicide Containment Study

Estimated Costs

1. Turbidity Curtain (Manufacturer-Indian Valley Industries, Inc.)

Specifications: Type I Turbidity Curtain: 50 foot sections, 15 feet deep.

Material: 14 oz. impermeable PVC

Floatation: 12''x12'' EPS foam blocks providing 60 lbs. per LF buoyancy

Cable/chain: 5/16'' vinyl-coated cable (9800# strength), 5/16'' ballast chain

Seams: Heat sealed with Velcro overlap closure and #4 grommets for connection

Anchors/buoys/rope/chain leader (35 sets): Cost: \$3000.00

Price per section: \$1037.50 per 50 foot section

51 Sections (2,550 feet) needed for all three containment areas (see map)

Total Cost: (\$1037.50 x 51) = \$52,912.50 plus \$900.00 shipping to lake)

2. Curtain Installation (Allied Biological, Inc.)

Pre-installation Bathymetry Mapping (Client)

Five field technicians

Two boats

Two days installation

Travel (8 hours)

Total Cost: \$9,000

3. Dye Application (Allied Biological, Inc.)

Rhodamine WT dye applied at 10 ppb in three contained areas (cost: \$37.50/gallon)

Two field technicians (~ 6 hours)

One boat with dropper lines

Dedicated mixing tank and lines (cost: \$500.00)

Permit Application (cost: \$550.00)

Total Cost: \$4,575.00

4. Dye Monitoring

Two field technicians

One boat (not the dye application boat)

16 sample sites; 3 depths/site (need pump array or Kemmerer sampler, and cleaning equipment)

6 sampling Events: 4 hours after treatment (AT), 8 hours AT, 1 day AT, 2 days AT, 3 days AT, and 6 days AT)

Fluorometer Rental: \$200/day (x 8 days = \$1600.00)

Total Cost: \$10, 600.00

5. Turbidity Curtain Removal and Storage (Allied Biological, Inc.)

Five field technicians

Two boats

Two days

Travel (8 hours)

Transportation of Curtain to Indoor Storage (cost: \$X)

Indoor Storage (from time of removal until herbicide treatment the following year; ~9 months)

Total Cost: \$9,900.00 plus cost of the two 10' by 20' storage units.

Total Project Cost (Sections 1 through 5, above): **\$87,887.50**