POPULATION CONTROL

CHEMICAL RECLAMATION PLANS

For each body of water to be reclaimed with fish toxicant, present the following:

1. PHYSICAL CHARACTERISTICS

(a) Name of water Jerome County Kenai Pen. Borough

(b) Surface Area 16.3 Acres (Max.) 15 Average Depth 8.5 feet

Surface Area 16.3 Acres (when treated)

(c) Volume 138 Acre feet Type of outlet Permanent-trickle dam

(d) Miles of stream ½ mi. to Quartz Crk. Stream flow 1 CFS

2. FISHERY CHARACTERISTICS

(a) Population composition (approx. quantity and species)

Silver salmon - numerous

Dolly Varden - numerous

Grayling - sparse

Cottids - numerous

Sample method used variable mesh gill net - ¼"-5/8" & 3/4"-2" bar

(b) Utilization light

Harvest rate N/A

(c) Most recent survey dated July 19, 1967

3. RECLAMATION PLAN

(a) Toxicant Rotenone - liquid (Common Name) Percent or Weight Active Ingredient 2.5%

Application rate (Active Ingred.) 0.9 PPM

(b) Method of Application portable pump (back pack & gas driven Time June 1968 (Month)

3. Reclamation Plan (Cont'd.)

(c) Objective: (1) Complete kill Yes or Partial (Percent)_____

(d) Estimated Toxicity Period 8 weeks

(e) Lake was reclaimed before in UNK (Year) Toxicant used_____

(f) Measures to protect downstream resources N/A - trickle dam allowed only small amount of water to escape from lake.
(If none needed, specify why)

(g) Expected duration of beneficial effects forever years.

4. PUBLIC CONSIDERATIONS

(a) Is water used locally for domestic, industrial, or irrigation purposes? No

Clearance required? NO Obtained from_____

(b) Is water State owned? Yes (Yes or No) If not, explain how public will be assured access._____

(c) If the area to be affected contains any rare, endangered, or endemic species, describe the measures to be undertaken for their protection.

N/A

(d) Procedure for salvage and disposal of fish killed_____

N/A fish were small and not very abundant

(e) Remarks_____

Attitude of public favorable

CHEMICAL REHABILITATION, POST-TREATMENT REPORT

Project Name _____ Project Number _____

Date Submitted _____

Lake or Stream Jerome T. 5N R. 2W S. _____,

County Kenai Pen. Borough

Date of Chemical Treatment June 28, 1968

1. Surface Area at Treatment 16.3 (acres) Water Volume 138 Acre-ft.

   Miles of Tributaries Treated N/A Stream flow None cfs.

2. Miles of Stream Treated _____ Stream flow 1 cfs.

   Miles of Tributaried Treated N/A Stream flow _____ cfs.

3. Toxicant Used Rotenone - liquid

4. Amount and Concentration of Toxicant Used:
   85 gal - 2.5% liquid
   Lake _____ Stream _____

5. Method used in distributing the Toxicant: portable pump (back pack - gas driven)

6. Cost of Toxicant $ _____

7. Condition of water on date of treatment:

Depth or flow (feet)	Temperature (°F)	pH	Dissolved Oxygen Content
15			

TDS _____

8. Species and estimated numbers of fish eradicated:

   Lake: Sticklebacks, cottids, Dolly Varden, Silver salmon (numerous)
   Grayling (sparce)

   Tributaries:

RECORD OF LAKE REHABILITATION

I. Lake Background

A. Lake name Jerome Location Kenai Pen. Mi 39 Seward Hwy

B. Surface acreage 16.3

C. Volume (acre feet) 138.4

D. Inlets (number, size, and description) one (1) Semi Permanent — less than 1CFS

E. Outlets (number, size, and description) one (1) Approx. 1CFS

F. Estimated time in days to effect a complete water change. unknown

G. Description of shoreline, swamps, bogs, shallow areas, underwater springs, submerged or emergent vegetation, or any other feature which might interfere with the application or distribution of toxicant. The inlet area is very marshy and has several beaver dams. Aquatic vegetation is present throughout the remainder of the lake

II. Pretreatment Data

A. Volumetric map showing depth contours, number of depth readings (if applicable), and description of method used to determine volume. Volume determined by ice Auger, sounding line and aerial photo

B. Trash species to be removed. Dolly Varden, Sculpins, Sticklebacks

III. Treatment Data

A. Date June 28, 1968

B. Toxicant used rotenone

1. Total gallons of liquid used 85 gal (4 years old)
2. Concentration of liquid (percent) 2.5%
3. Total pounds of powder used none
4. Concentration of powder (percent) N/A

C. Level of concentration in lake (ppm) 0.9 ppm @ 5% level

D. Method of application portable pump (hand pump + gas driven)

E. Temperature profile (graph on reverse side)

F. Water chemistry: pH _____. Methyl orange alkalinity _____. Total alkalinity _____. Total dissolved solids _____

IV. Post Treatment Data

A. Duration of toxicity or date lake is determined to be non-toxic A MAXIMUM OF 56 DAYS

B. Method of determination FOUR CAGES CONTAINING 10 SILVER SALMON FRY SET AT VARIOUS DEPTHS AND LOCATIONS IN THE LAKE ON AUGUST 22. ALL FISH WERE ALIVE 24 HRS LATER

C. Success of kill

D. Method of determination

E. Comments This lake has a trickle dam constructed at the outlet