ALASKA DEPARTMENT OF FISH AND GAME
SPORT FISH DIVISION

FISH POPULATION CONTROL A,
PRE-CHEMICAL RESTORATION PLAN

GENERAL

Region II Lake or Stream Roque Lake Clearance obtained from None

Federal Clearance (date) None State Clearance (date) None Land Managing Agency Private*

1. Physical Characteristics: a,b. Borough Kenai t 3N r 11W s 20 Lat 60°20' Long 151°14' U.S. Map Call Out # K-B-4.

Surf: acres 5 (when surveyed) Max. depth 15 Avg. depth 10.4 Acre feet 52 Established B.M. location

Describe method used in establishing information for contour map Aerial photograph and recording fathometer

Lake was previously reclaimed in (year) No Toxicant used Result

c. Outlet Intermittant

d. Inlet (number, miles, flow & description) None

e. Estimated duration of toxicity 30 to 60 days

f. Shoreline and lake bottom description (springs, seeps, bogs, swamp, shallow areas, aquatic vegetation) Bog shoreline on west side with lake having no known springs

2. Fishery Characteristics: a. Target fish Threespine stickleback Population composition Threespine stickleback

c. Sample method used Gill nets and visual observations d. Most recent survey date July 30, 1971

3. Status of Existing Fishery: Fish growth and or survival and collection means (creel census, net, etc.) None

4. Restoration Plan: a. Toxicant Pro-nox fish Percent or weight (active ingredient) 5% rotenone Form to be applied Liquid

Application rate (active ingredient) 1.5 ppm c. Method of application Boat pumps time 6 month Sept. 1972

d. Quantity required 30 gal (10% error) (gal. or lbs.) Acre feet to be treated 52 (lake or stream) Lake

e. Number of sub-area treatments and description of sites No sub-areas

f. Areas to be treated with caution None

g. Precautions to be taken in downstream areas (if none are needed, state why). None. Outlet was dry at the time of treatment h. Chemical rehabilitation benefits Improved growth and survival of stocked fish i. Monitoring Periodic test fish samples

5. Water-Physical Chemistry Properties: a. ph 6.9 Methyl orange alkalinity 17 Total alkalinity 17 b. TDS dissolved solids

Date(s) July 30, 1971 6. Estimated Project Cost: Lbs or gallons/1.58 acre feet @ 3.75 cents per lb. or gal. = $2.17 Toxicant requirements 30 gal @ $3.75/gal = $115 lbs @ $ lb. = $ Man days 6

Wage $300 Per diem $0 Travel 35 Barrier dam (if required) type None $

M & O cost: List None $ Other cost (items)

$ Total estimated cost $450

7. Planned initial fish stocking:

DATE	SPECIES	INCHES	POUNDS	NUMBER
Late June	RT	130/lb		2,200

8. Public Considerations: a. Is water to be used locally for domestic, industrial or irrigation purposes? No

b. Public access assured (how) See remarks c. If the affected waters contain any rare or endangered species, describe the measures to be undertaken for their protection None

d. Procedure for salvage and disposal of fish killed No fish killed other than stickleback

e. Cooperating agencies (attitude and support) No cooperating agencies

f. General attitude of the public to the project Favorable

g. Remarks * Public Access via August 8, 1972 easement.

ALASKA DEPARTMENT OF FISH AND GAME
SPORT FISH DIVISION
FISH POPULATION CONTROL B.
POST-TREATMENT EVALUATION, CHEMICAL RESTORATION

Region II Project Number _____ Project Name _____ Submitted by S. Logan Date 1/21/76

Lake or Stream Rogue Lake Location: T. 3N R. 11W S. 20 Map Reference K-B-4 Lat. 60°20' Long. 151°14'

Borough Kenai Chemical Treatment (date) Sept. 6, 1972

1. Surface area at treatment 5 (acres) Water Volume 52 (acre-feet) Tributaries:

Name	Flow	Total Length	Length Treated
None			
		TOTAL	

Outlet(s):

Name	Flow	Total Length	Length Treated
Unnamed	Intermittant	Dry during treatment	
		TOTAL	

2. Stream(s) treated None total miles Main streams:

Name	Flow	Total Length	Length Treated

Tributaries:

Name	Flow	Total Length	Length Treated
		TOTAL	

3. Toxicant used (lake) 5% emulsified rotenone (tributary) _____

4. Methods used in distributing the toxicant: Boat pump

5. Cost of Project:
(items) Rotenone $ 115
(items) Salary $ 300
(items) Per diem & travel $ 35
(items) Total $ 450

6. Condition of water on date of treatment:

Depth (feet) or flow (cfs)	Temperature (°F)	pH	Dissolved Oxygen Content
0	58	6.9	13.0
9	57	6.9	13.0
15	50	6.6	6.0

Total Dissolved Solids _____

7. Species and estimated observed numbers of fish eradicated:

Lake (Stream)		Inlet (Tributaries)	
Threespine stickleback	Abundant	None	

8. Period of Toxicity One to two months estimated

9. Method of determination of effectiveness: Test fish and shoreline survey

10. Detoxification: Non-chemical (natural) Natural Outlet Control Structure Operation Date _____

Chemical _____ Application dates _____ Amount applied _____ Cost of chemical $ _____

Results _____

11. Public reaction to project (after treatment) Favorable

12. Comments on angler use (after treatment) Slightly increased

13. Additional remarks: _____