ALASKA DEPARTMENT OF FISH AND GAME

Sport Fish Division

Lake Survey Form

A-5 ROW T4N S27 SE 4SE 4

Lake Tex Smith Lake Sec. Gulkana Twp. ____, Rge. ____, Lat. 62°6' N., Long. 146°17½" W.

Acreage 15 Max. Depth 25 feet Altitude 2434

Location mile 161 N. Glenn Hwy. Water Color (clear, silty) Light brown stain

Type of Bottom Small rocks & gravel on most of the lake with coon tails

Inlets (name, size, permanency) Lake gets its source from multi-springs

Benchmark (Description) None

Outlet (size, immediate and main drainage) Nice outlet on S.E. bank

Barriers Screen placed in outlet in 1960

Use (Private, public, semiprivate) Semiprivate right next to highway

Public Access Site questionable

Facilities (Campground, roadhouse, etc.) 0 n roadhouse Trappers Den

Native Fish Species None

Introduced Species Rainbow trout & steelhead

Spawning Grounds About 15 sq. yards in outlet

Fishing History This lake has had good rainbow fishing in both summer and winter since rehabilitatio

Other Uses None

Fish Losses None observed

Character and size of watershed Tundra, rolling hills very limited.

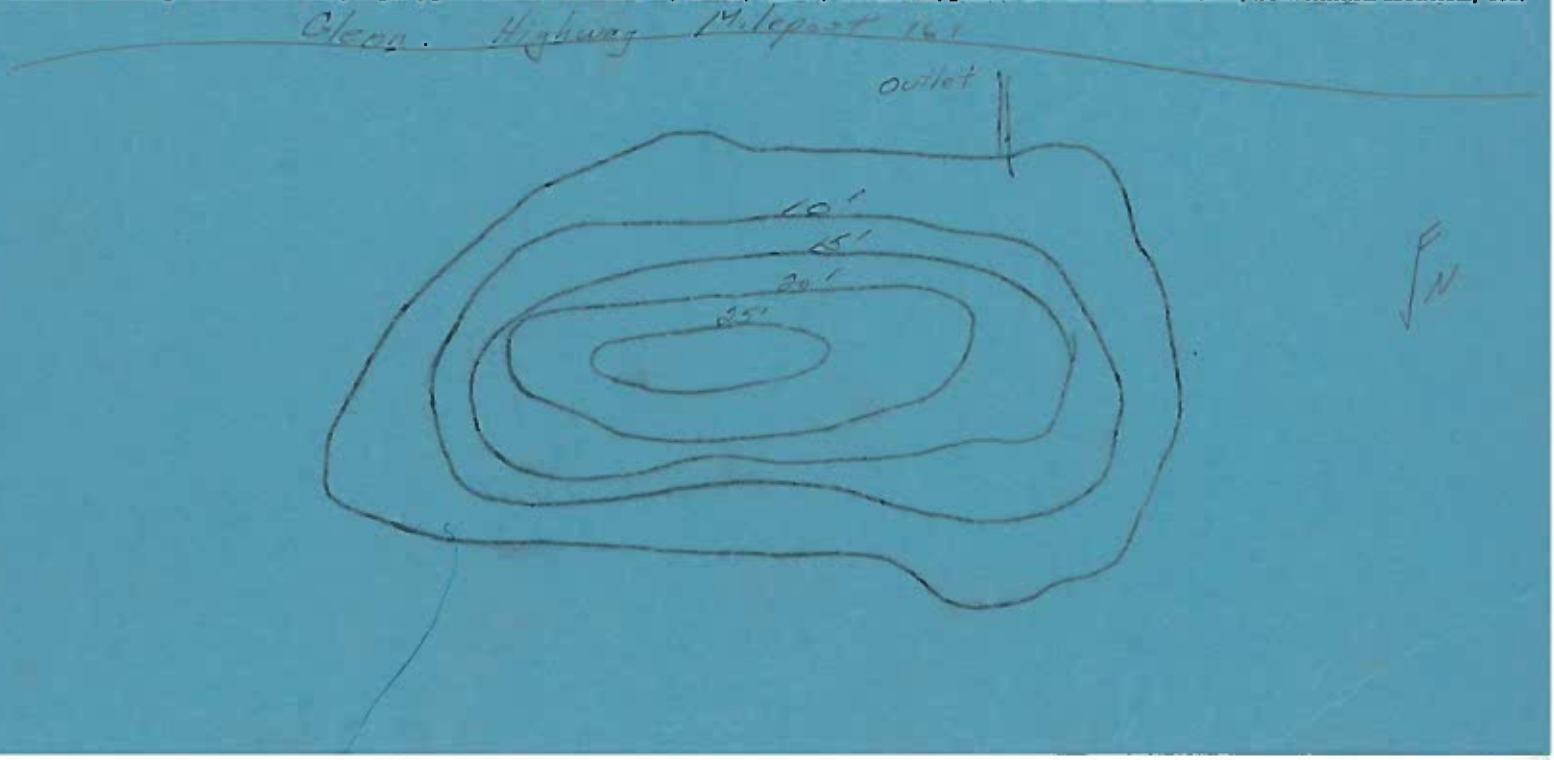
Remarks Natural reproduction was noted in outlet in 1960

(over)

Tex Smith Lake

Description of accessibility (how reached) Tex Smith Lake is right on the north side of the Glenn Hwy. at Mile Post 161 Trappers Den is located on lake.

Sketch: showing outline of lake, depth, prominent landmarks, inlets, outlet, weedbeds, public service site location, benchmark location, etc.



ALASKA DEPARTMENT OF FISH AND GAME
DIVISION OF SPORT FISH
LAKE SURVEY SUMMARY

LAKE Tex Smith

MAP REF. Gulkana A-5 T 4 N R 6 W S 27 LAT. 62° 6" LONG 146°17½"

LOC. Mile 161 north, Glenn Highway SURF. ELEV. 2434

1. SURF. ACRES ____ MAX. DEPTH 25 AVG. DEPTH ____ ACRE FT. ____
SHOAL AREA ____ WATER COLOR Lt brn stain SECCHI READING ____
AQUATIC VEGETATION ____

2. FISH SPECIES: NATIVE None INTRODUCED Rainbow trout, steelhead

3. FISHING HISTORY Good rainbow fishingin both summer and winter since rehabilitation

4. INVERTEBRATES ____

5. INLETS Multi-springs DISCHARGE ____ cfs
____ DISCHARGE ____ cfs
____ DISCHARGE ____ cfs
BARRIERS ____

6. OUTLETS Southeast bank DISCHARGE ____ cfs
____ DISCHARGE ____ cfs
BARRIERS Screen placed in outlet

7. SPAWNING AREAS About 15 square yards in outlet

8. WATERSHED TYPE Tundra, rolling hills, very limited DRAINAGE AREA ____ ACRES

9. ACCESSIBILITY Right on the north side of Glenn Highway, Mile 161. Trappers Den located on lake

10. ACCESS STATUS Access trail along outlet stream.

11. USE SITE Semi-private FACILITIES ~~Trappers Den~~

12. OTHER USE None

13. POLLUTION Unknown

14. REMARKS LAKE rehabilitated 1953

Dept. of Fish & Game
Sport Fish
MAR 5 1970
Anchorage

BY ____ DATE ____

FG-206 2/69

tex smith
trappers dam pg 1

ALASKA DEPARTMENT OF FISH AND GAME

DIVISION OF SPORT FISH

WATER Tex Smith Lake

WATER ANALYSIS

LOCATION Mile 161 N. Glenn Hwy

DATE	STATION	TIME	SNOW COVER	ICE COVER	SAMPLE DEPTH	TEMPERATURE WATER	TEMPERATURE AIR	DO	CO_2	pH	TOTAL ALKALI	REMARKS	BY
1/13/65				27"	10'			7.6					
1/13/65				27"	5'			8.1					
1/31/66				17"	6'			7.8					
1/31/66				17"	10'			7.8					
4/15/68			14"	33"	5'			6.5					
4/15/68			14"	33"	10'			6.0					
4/8/69			8"	38½"	5'			7.0				Total Depth 15'	
4/1/70			6	28	7			6.0					
4/7/72			15"	29"	5'			5.5					
5/6/74				30"									
2/10/77		2:00pm	2"	26'	5'	+36°	+26°	8.0					
					8'			8.0					
3/13/79	50 yds out from Dock.	3:00pm	11"	24	5'		38°	8.0					WP
					8'			7.0					
2/26/81	middle LK.	1600Hrs	9"	26"	5'		32°	5ppm				2'32°; 4'33°; 6'34°; 8'36°; 10'37°; 12'37°; 14'37° 16'37°	WP
					9'			4ppm				18'38°, 20'38°	

DEFINE LOCATION OF STATIONS ON REVERSE

2/69
FG-208

ALASKA DEPARTMENT OF FISH AND GAME

DIVISION OF SPORT FISH

WATER texsmith, Trapper Creek

WATER ANALYSIS

LOCATION

DATE	STATION	TIME	SNOW COVER	ICE COVER	SAMPLE DEPTH	TEMPERATURE WATER	TEMPERATURE AIR	DO	CO_2	pH	TOTAL ALKALI	REMARKS	BY
May 1981												Conductivity 275 range 4	Bue
4/20/82	mid Lk.	11:00AM	7"	25"	5'	See Remarks	35°	6ppm				0=32°, 2'=32°, 4'=33°, 6'=35°, 8'=36°, 10'=36° 11'=Bottom	Up
					9'			4ppm					
3/7/83		12:00	12"	25.75"	5'			7ppm				2'32½°, 4'34°, 6'35°, 8-10-12'36°, 13'Bottom	Up
					9'			7ppm					
3/23/84	mid Lk	1430	6"	26"	5'			6ppm				2'32°, 4'32°, 6'34°, 8'35°, 10'36°	Up
					9'			3ppm					
3/22/85	"	11:00	16"	28'	5'			7ppm	Hardness 205	8	69	2'33° 4'33° 6'35° 8'36° 10'(8) 37°	Up
					9'			6ppm				Conductivity 193 - Cole parmer meter	

DEFINE LOCATION OF STATIONS ON REVERSE

2/69
FG-208

ALASKA DEPARTMENT OF FISH AND GAME
DIVISION OF SPORT FISH

SUPPLEMENTAL DATA

NAME Tex Smith

LOCATION _____

10/29/69 ice 7 inches Thick

5/18/71 not open yet

12/2/75 outlet still running less than 1 CFS under ice. Ice 1/3 up in culvert at upper end. outlet structure completed covered with drifted snow, 4" snow on lake

10/18/76 Frozen over. outlet running

2/10/77 - OUTLET STILL flowing, 5' - 8ppm D.O
8' - 8ppm D.O

3/9/77 2 Fishermen 3 Hours Each. — TOTAL 6 Hrs.
180 mm S.S. Imm m. ♂ 210 mm imm ♀
185 mm S.S. Imm ♀ 190 mm Ripe ♂
CAUGHT ON Eggs & WORMS,

3/21/78 Shoveled off OUTLET STRUCTURE & CONCRETE Apron
STANDPIPE SEEMS TO be Solid ICE

3/13/79 WATCHED ~~OUTLET~~ all winter - Now it is completely plugged with overflow - overflow continues down to & fills up all but top 1' of Alum. culvert.

BY _____ DATE _____

2/26/81 OUTLET NOT flowing, Bottom 1/3 of ~~Culvert~~ CULVERT ICED in, Cone of ICE in upright Section of culvert.

7/69
FG-213

~~4~~ 10/29/80 5" Jne
outlet still running

1/6/81 Outlet Running -

3/26/84 2 fishermen 2 Hrs (4 man hours) no fish

CENTRAL LABORATORY, SALT LAKE CITY, UTAH

WATER QUALITY ANALYSIS
LAB ID # 151003 RECORD # 18008

SAMPLE LOCATION: TRAPPERS DEN LK NR TAZLINA LODGE AK
STATION ID: 620535146172700 LAT.LONG.SEQ.: 620535 1461727 00
DATE OF COLLECTION: BEGIN--750526 END-- TIME--1530
COUNTY CODE: 260 PROJECT IDENTIFICATION: 58
DATA TYPE: 2 SOURCE: SURFACE WATER GEOLOGIC UNIT:
COMMENTS:
75FG53

PROVISIONAL RECORDS
SUBJECT TO REVISION
PROVISIONAL RECORDS
SUBJECT TO REVISION

ALK.TOT (AS CACO3)	MG/L	134	NITROGEN TOT AS NO3	MG/L	4.7
BICARBONATE	MG/L	163	NITROGEN TOT ORG N	MG/L	0.77
BORON TOTAL	UG/L	140	NITROGEN TOTKJD AS N	MG/L	0.78
CALCIUM DISS	MG/L	49	NO2 + NO3 AS N TOT	MG/L	0.28
CARBON TOT ORGANIC	MG/L	28	NO2+NO3 AS N DISS	MG/L	0.01
CHLORIDE DISS	MG/L	1.3	~~PH LAB~~ Delete		7.7
COLOR		20	PHOS ORTHO DIS AS P	MG/L	0.01
CONDUCTIVITY		412	PHOSPHATE DIS ORTHO	MG/L	0.03
CONDUCTIVITY LAB		404	PHOSPHORUS TOT AS P	MG/L	0.04
DEPTH(FT.FR.SURFACE)		2.0	POTASSIUM DISS	MG/L	1.4
FLUORIDE DISS	MG/L	0.1	RESIDUE DIS CALC SUM	MG/L	198
HARDNESS NONCARB	MG/L	34	RESIDUE DIS TON/AFT		0.32
HARDNESS TOTAL	MG/L	170	RESIDUE DIS 180C	MG/L	235
IRON DISSOLVED	UG/L	30	SAR		0.2
MAGNESIUM DISS	MG/L	11	SILICA DISSOLVED	MG/L	9.2
MANGANESE DISSOLVED	UG/L	0	SODIUM DISS	MG/L	5.3
NITROGEN NH4 ASN TOT	MG/L	0.01	SODIUM PERCENT		6
NITROGEN TOT AS N	MG/L	1.1	SULFATE DISS	MG/L	40
			WATER TEMP (DEG C)		5.0

CATIONS	(MG/L)	(MEQ/L)	ANIONS	(MG/L)	(MEQ/L
CALCIUM DISS	49	2.446	BICARBONATE	163	2.67
MAGNESIUM DISS	11	0.905	CHLORIDE DISS	1.3	0.03
POTASSIUM DISS	1.4	0.036	FLUORIDE DISS	0.1	0.01
SODIUM DISS	5.3	0.231	SULFATE DISS	40	0.83
			NO2+NO3 AS N D	0.01	0.00
TOTAL		3.616	TOTAL		3.54

PERCENT DIFFERENCE = 0.97

15 Acre. ave. Depth 15', 225 Ac-FT