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

LAKE Quartz Lake

MAP REF. Big Delta A-4 T 8 S R 10 E S 17,18, 19,20 LAT. _____ LONG. _____

LOC. 277.5 Richardson Hwy, 2.5 miles north SURF. ELEV. _____

1. SURF. ACRES 1,504 MAX. DEPTH _____ AVG. DEPTH _____ ACRE FT. 18,525
   SHOAL AREA _____ WATER COLOR _____ SECCHI READING _____
   AQUATIC VEGETATION _____

2. FISH SPECIES: NATIVE NP INTRODUCED _____

3. FISHING HISTORY excellent NP fishing in the summer

4. INVERTEBRATES _____

5. INLETS _____ DISCHARGE _____ cfs
   _____ DISCHARGE _____ cfs
   _____ DISCHARGE _____ cfs
   BARRIERS _____

6. OUTLETS _____ DISCHARGE _____ cfs
   _____ DISCHARGE _____ cfs
   BARRIERS _____

7. SPAWNING AREAS _____

8. WATERSHED TYPE _____ DRAINAGE AREA _____ ACRES

9. ACCESSIBILITY accessible by overland vehicle in winter; summer road is planned

10. ACCESS STATUS _____

11. USE SITE _____ FACILITIES _____

12. OTHER USE _____

13. POLLUTION _____

14. REMARKS

BY _____ DATE _____

FG 206 2/68

Delta #4

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
CENTRAL LABORATORY, SALT LAKE CITY, UTAH

PROVISIONAL RECORDS
SUBJECT TO REVISION

WATER QUALITY ANALYSIS
LAB ID # 157045 RECORD # 19301

SAMPLE LOCATION: QUARTZ LK NR DELTA JCT
STATION ID: 641250145491000 LAT.LONG.SEQ.: 641250 1454910 00
DATE OF COLLECTION: BEGIN--750529 END-- TIME--1215
COUNTY CODE: 090 PROJECT IDENTIFICATION: 78
DATA TYPE: 2 SOURCE: LAKE OR RESERVOIR GEOLOGIC UNIT:
COMMENTS:
BOTTLES F 5 FIELD VALUE USED FOR PH BICARB AND COND

ALK,TOT (AS CACO3)	MG/L		218	NITROGEN TOT ORG N	MG/L		2.8
ALUMINUM TOTAL	UG/L	<	10	NITROGEN TOTKJD AS N	MG/L		2.8
BICARBONATE	MG/L		266	NO2 + NO3 AS N TOT	MG/L		0.02
BORON TOTAL	UG/L		40	NO2+NO3 AS N DISS	MG/L		0.02
CALCIUM DISS	MG/L		27	OXYGEN DISSOLVED	MG/L		10.9
CARBON TOT ORGANIC	MG/L		26	PH			8.1
CARBONATE	MG/L		0	PH LAB			8.2
CHLORIDE DISS	MG/L		6.1	PHOS ORTHO DIS AS P	MG/L		0.00
COBALT TOTAL	UG/L	<	50	PHOSPHATE DIS ORTHO	MG/L		0.00
COLOR			5	PHOSPHORUS TOT AS P	MG/L		0.01
CONDUCTIVITY			400	POTASSIUM DISS	MG/L		16
CONDUCTIVITY LAB			410	RESIDUE DIS CALC SUM	MG/L		227
COPPER TOTAL	UG/L		10	RESIDUE DIS TON/AFT			0.36
DEPTH(FT.FR.SURFACE)			6.0	RESIDUE DIS TON/DAY			7210
FLUORIDE DISS	MG/L		0.6	RESIDUE DIS 180C	MG/L		267
HARDNESS NONCARB	MG/L		0	SAR			0.3
HARDNESS TOTAL	MG/L		200	SILICA DISSOLVED	MG/L		0.8
IRON DISSOLVED	UG/L		60	SODIUM DISS	MG/L		11
MAGNESIUM DISS	MG/L		32	SODIUM PERCENT			10
MANGANESE DISSOLVED	UG/L		10	STREAMFLOW(CFS)-INST			9999
MOLYBDENUM TOTAL	UG/L		0	SULFATE DISS	MG/L		2.5
NITROGEN NH4 ASN TOT	MG/L		0.04	VANADIUM TOTAL		DETR.	DELETED
NITROGEN TOT AS N	MG/L		2.8	WATER TEMP (DEG C)			9.5
NITROGEN TOT AS NO3	MG/L		12	ZINC TOTAL	UG/L		0

CATIONS	(MG/L)	(MEQ/L)	ANIONS	(MG/L)	(MEQ/L)
CALCIUM DISS	27	1.348	BICARBONATE	266	4.36
MAGNESIUM DISS	32	2.633	CARBONATE	0	0.00
POTASSIUM DISS	16	0.410	CHLORIDE DISS	6.1	0.17
SODIUM DISS	11	0.479	FLUORIDE DISS	0.6	0.03
			SULFATE DISS	2.5	0.05
			NO2+NO3 AS N D	0.02	0.00
TOTAL		4.867	TOTAL		4.61

PERCENT DIFFERENCE = 2.64

Dwarf lake MEI = 32.5

Average Dept = 12.3 ft.

Conductivity 400

Acre ft. = 18.525

Surface Acre = 150+

Max depth = 42'

late winter DO's = ? Some problem