

ALASKA DEPARTMENT OF FISH AND GAME

DIVISION OF SPORT FISH

WATER ANALYSIS

WATER JOHNSON LAKE

LOCATION T2N, R11W, SEC-6

DATE	STATION	TIME	SNOW COVER	ICE COVER	SAMPLE DEPTH	TEMPERATURE WATER	TEMPERATURE AIR	DO	CO_2	pH	TOTAL ALKALI	REMARKS	BY
2/15/60					0	65	58	7.4		7.7	15		SK
"					12	64		7.1		7.7			
3/22/65			0	26"	0			6.4			41	COLORIMETER	LE
"					5			2.5					
"					7			1.2					
4/6/65			0	26	0			6.4		6.9	68	COLORIMETER	LE
"					5			0.5					
3/27/66			9"	24"	5			4.4				COLORIMETER	LE
"					10			4.1					
4/14/66			2"	24"	3			3.8				TITRATE	
"					5			1.6		6.2			
"					10			0.9					
4/26/66			2"	24"	3			3.4				TITRATE	LE
"					5			2.3					
4/2/67			3"	36"	3			1.7					
					5			0.6					

DEFINE LOCATION OF STATIONS ON REVERSE

2/69
FG-208

(3)

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WATER ANALYSIS

WATER JOHNSON LAKE

LOCATION T2N, R11W, SEC-6

DATE	STATION	TIME	SNOW COVER	ICE COVER	SAMPLE DEPTH	TEMPERATURE WATER	TEMPERATURE AIR	DO	CO_2	pH	TOTAL ALKALI	REMARKS	BY
4/12/67			3"	30"	5			6.8				TITRATE	LE
"					10			3.0					
4/12/68			2"	21"	5			7.0				TITRATE	LE
"					10			6.5					
4/14/70		1300	0	26	0			8.0		6.4	25		LH
"					8			7.0					
"					14			4.0					
5/5/71			1"	30.	0		50	8.0		6.5	17		
					7			2.0					
					11			0.6					
3/22/74		1200N	3	36	0	32		4.0			27	Titrate	S.H
					7	33		3.0					
					13	36		2.0					
3/25/75		11	12	24	0	32		7.6			34.2	Titrate	
					7	34		6.4					
					13	36		2.5					

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WATER Johnson Lake

WATER ANALYSIS

LOCATION T2N, R11W Sec 6

DATE	STATION	TIME	SNOW COVER	ICE COVER	SAMPLE DEPTH	TEMPERATURE WATER	TEMPERATURE AIR	DO	CO_2	pH	TOTAL ALKALI	REMARKS	BY
3/5/76		1400	12	30	0	33		8.0				DO meter	SH
					6	37		7.0					
					13	38		0.4					

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WATER QUALITY ANALYSIS
LAB I[illegible] # 151005 RECORD # 18014

SAMPLE LOCATION: JOHNSON LK NR SOLDOTNA AK
STATION ID: 601733151155200 LAT.LONG.SEQ.: 601700 1511552 00
DATE OF COLLECTION: BEGIN--750520 END-- TIME--1130
COUNTY CODE: 120 PROJECT IDENTIFICATION: 58
DATA TYPE: 2 SOURCE: SURFACE WATER GEOLOGIC UNIT:
COMMENTS:
75FG44 FIELD VALUE USED FOR PH AND COND

PROVISIONAL RECORDS
SUBJECT TO REVISION

ALK,TOT (AS CACO3)	MG/L	25	NITROGEN TOT ORG N	MG/L	0.53
BICARBONATE	MG/L	30	NITROGEN TOTKJD AS N	MG/L	0.58
BORON TOTAL	DETR.	DELETED	NO2 + NO3 AS N TOT	MG/L	0.00
CALCIUM DISS	MG/L	5.4	NO2+NO3 AS N DISS	MG/L	0.02
CARBON TOT ORGANIC	MG/L	5.8	~~OXYGEN DISSOLVED~~	~~MG/L~~	~~10.7~~
CARBONATE	MG/L	0	~~PH~~		~~7.0~~
CHLORIDE DISS	MG/L	1.7	~~PH LAB~~		~~7.4~~
COLOR		10	PHOS ORTHO DIS AS P	MG/L	0.01
CONDUCTIVITY		50	PHOSPHATE DIS ORTHO	MG/L	0.03
CONDUCTIVITY LAB		50	PHOSPHORUS TOT AS P	MG/L	0.03
DEPTH(FT.FR.SURFACE)		0.0	POTASSIUM DISS	MG/L	1.4
FLUORIDE DISS	MG/L	0.1	RESIDUE DIS CALC SUM	MG/L	31
HARDNESS NONCARB	MG/L	0	RESIDUE DIS TON/AFT		0.05
HARDNESS TOTAL	MG/L	20	RESIDUE DIS 180C	MG/L	39
IRON DISSOLVED	UG/L	170	SAR		0.3
MAGNESIUM DISS	MG/L	1.5	SILICA DISSOLVED	MG/L	1.3
MANGANESE DISSOLVED	UG/L	200	SODIUM DISS	MG/L	3.4
NITROGEN NH4 ASN TOT	MG/L	0.05	SODIUM PERCENT		26
NITROGEN TOT AS N	MG/L	0.58	SULFATE DISS	MG/L	0.5
NITROGEN TOT AS NO3	MG/L	2.6	WATER TEMP (DEG C)		4.5

CATIONS	(MG/L)	(MEQ/L)	ANIONS	(MG/L)	(MEQ/L)
CALCIUM DISS	5.4	0.270	BICARBONATE	30	0.492
MAGNESIUM DISS	1.5	0.124	CARBONATE	0	0.000
POTASSIUM DISS	1.4	0.036	CHLORIDE DISS	1.7	0.048
SODIUM DISS	3.4	0.148	FLUORIDE DISS	0.1	0.006
			SULFATE DISS	0.5	0.011
			NO2+NO3 AS N D	0.02	0.002
TOTAL		0.577	TOTAL		0.557

PERCENT DIFFERENCE = 1.75

Volumetric data - Johnson Lake

$3,697,871 \pm \frac{3,441,892}{2} \times 3 =$	10,709,691	cu.	ft.
$3,441,892 \pm \frac{2,928,733}{2} \times 3 =$	9,554,439	cu.	ft.
$2,928,733 \pm \frac{2,476,864}{2} \times 3 =$	8,108,397	cu.	ft.
$2,476,864 \pm \frac{1,812,281}{2} \times 3 =$	6,433,719	cu.	ft.
12' contour large end			
$1,559,908 \pm \frac{146,617}{2} \times 3 =$	2,559,789	cu.	ft.
$146,617 \times 1/3 \times 3 =$	146,617	cu.	ft.
Total	37,512,652	cu.	ft.

$62.4 \times 37,512,652 = 23,407,653,848$ lbs. H_2O

Surface acres 84.9
Max. depth 16 feet