State of Alaska
Department of Fish and Game
Habitat and Restoration Division

Nomination for Waters Important to Anadromous Fish

Region: Arctic

USGS Quad: Teshekpuk D-1, C-1

Anadromous Water Catalog Number of Waterway: 330-00-10880

Name of Waterway: Smith River

☐ USGS Name ☐ Local Name

☑ Addition ☐ Deletion ☐ Correction ☐ Backup Information

For Office Use

Nomination #	01 038	[signature] 6 KLLt	1-24-01
Revision Year:		Regional Supervisor	Date
Revision to: Atlas ____ Catalog ____ Both ____		[signature]	6/6/01
		AWC Project Biologist	Date
Revision Code:	A-2	[signature]	8/20/01
		Drafted	Date

Arc# = 5325

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Least cisco	1978			15 ✓	☑
Arctic char	1978			3 ✓	☑
					☐
					☐
					☐

IMPORTANT: Provide all supporting documentation that this water body is important for the spawning, rearing or migration of anadromous fish, including: number of fish and life stages observed; sampling methods, sampling duration and area sampled; copies of field notes; etc. Attach a copy of a map showing location of mouth and observed upper extent of each species, as well as other information such as: specific stream reaches observed as spawning or rearing habitat; locations, types, and heights of any barriers; etc.

Comments:

Reynolds, P. 1978. Fish collected at proposed NPR-A wellsites during August 1978. BLM. Fbks AK.

Lat 70°54', Long 153°10'

Name of Observer (please print): _____

Signature: _____ Date: ~~9/3/99~~ 2000

Address: _____

This certifies that in my best professional judgment and belief the above information is evidence that this waterbody should be included in or deleted from the Catalog of Waters Important for Spawning, Rearing or Migration of Anadromous Fishes per AS 16.05.870.

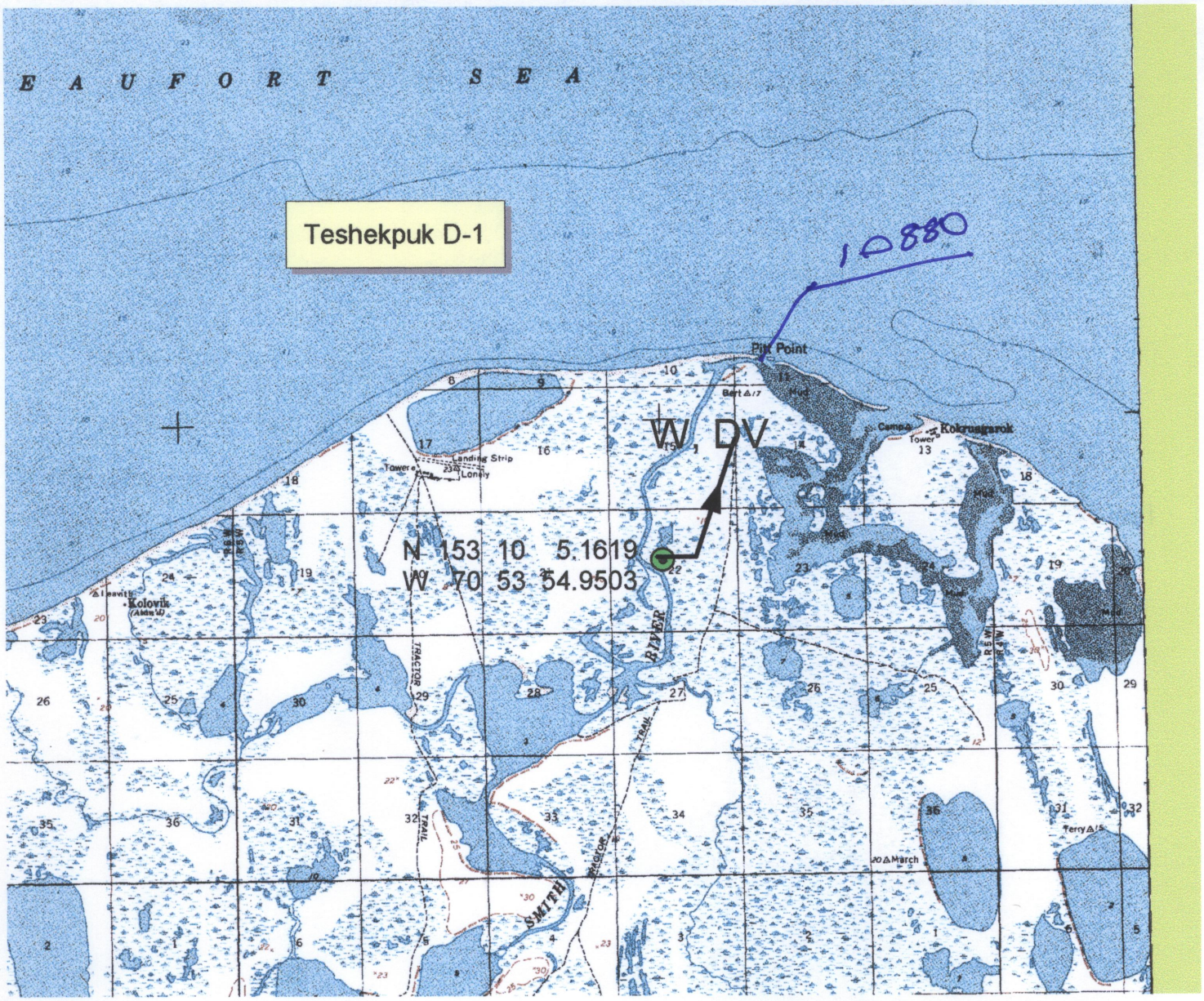
Signature of Area Biologist: [signature]

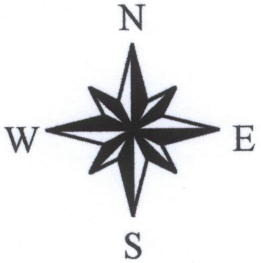
Revision 3/97

ALASKA DEPT. OF FISH & GAME
JAN 29 2001
REGION II
HABITAT AND RESTORATION DIVISION

Smith River, Teshekpuk D-1

Add Stream
330-00-1088D
w/ W_P ΔV_P



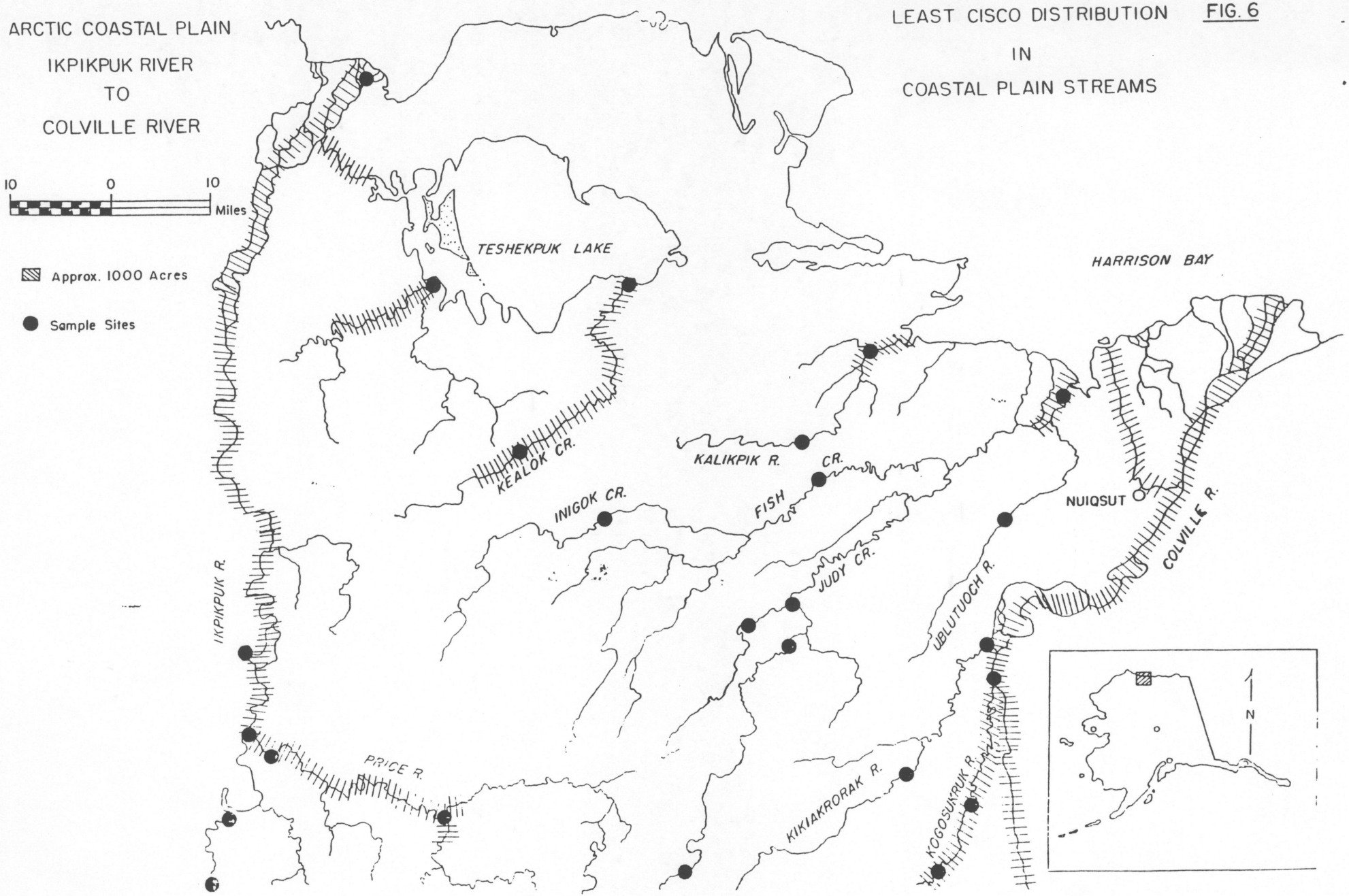


4 0 4 8 Kilometers

Table 2. Locations of stream survey sites and species captured in coastal plain streams.

Stream	N. Latitude	W. Longitude	Approximate Width (ft)	Maximum Depth (ft)	pH	Species Present
+Ikpikpuk R.	70° 48'	154° 18'	140	16	7.8	LCI,BWF,GR,FHS
Ikpikpuk R.	60° 57'	154° 43'	250	15	8.0	GR,LCI,BWF,HWF,BB,NP,AL,LNS
+Ikpikpuk R.	69° 52'	154° 41'	138	13	9.0	GR,SSC
Ikpikpuk R.	69° 44'	154° 45'	175	5	8.0	GR,LNS,BB,NP,HWF,NSB,SSC
Ikpikpuk R.	69° 36'	154° 56'	150	10	8.0	GR,LNS,BB,NP,HWF,NSB,SSC
Price R.	69° 50'	154° 37'	60	12	8.0	GR,LCI,HWF,BWF
Price R.	69° 45'	153° 50'	80	10	8.0	GR,LCI,HWF,BWF
Teshekpuk Trib.	70° 31'	153° 59'	200	4	8.0	GR,BWF,LCI
Kealok Cr.	70° 31'	153° 10'	50	6	8.0	GR
Kealok Cr.	70° 16'	153° 35'	50	4	8.0	GR,LCI
Kalikpik R.	70° 26'	152° 05'	70	6	8.0	GR,LCI,BWF,RWF
Kalikpik R.	70° 17'	152° 21'	40	5	8.0	GR
+Fish Cr.	70° 22'	151° 17'	370	9	8.7	LCI,BWF,HWF,NSB,AFL,FSC
+Fish Cr.	70° 13'	152° 22'	29	7	8.0	GR,SSC
Inigok Cr.	70° 10'	153° 13'	80	7	8.0	GR,RWF,BWF
+Ublutuoch R.	70° 11'	151° 33'	19	6	7.8	GR,NSB,SSC
+Judy Cr.	70° 03'	152° 26'	15	6	8.6	GR,SSC
Judy Cr.	70° 02'	152° 35'	16	4	8.0	BWF
Judy Cr.	70° 00'	152° 25'	15	5	8.5	RWF
+Judy Cr.	69° 39'	152° 57'	18	6	9.0	GR,NSB
Kikiakrorak R.	70° 00'	151° 36'	150	4	7.5	GR,BWF,HWF,BB,SSC
Kikiakrorak R.	69° 48'	151° 45'	15	2	8.5	GR,SSC
Kogosukruk R.	69° 56'	151° 35'	125	5	7.5	GR,RWF,BB,LNS,SSC,NSB
Kogosukruk R.	69° 45'	151° 42'	75	3	8.5	SSC
Kogosukruk R.	69° 39'	151° 50'	60	2.5	8.5	GR,LNS,RWF,LCI
*Smith R.	70° 54'	153° 10'	---	---	---	LCI,AC

(+) From Netsch et al. (1977)
(*) From Reynolds (1978)


ARCTIC COASTAL PLAIN
IKPIKPUK RIVER
TO
COLVILLE RIVER
LEAST CISCO DISTRIBUTION
IN
COASTAL PLAIN STREAMS
FIG. 6
10
0
10
Miles
Approx. 1000 Acres
Sample Sites
TESHEKPUK LAKE
HARRISON BAY
KEALOK CR.
KALIKPIK R.
FISH CR.
INIGOK CR.
NUIQSUT
COLVILLE R.
JUDY CR.
UBLUTUOCH R.
IKPIKPUK R.
PRICE R.
KIKIAKRORAK R.
KOGOSUKRUK R.
N

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Summer (1978) assessment of proposed NPR
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SUMMER (1978) ASSESSMENT OF PROPOSED NPR-A WELL SITES

Jack Mellor
Pat Reynolds
Bill Clithero

SEPTEMBER 1978

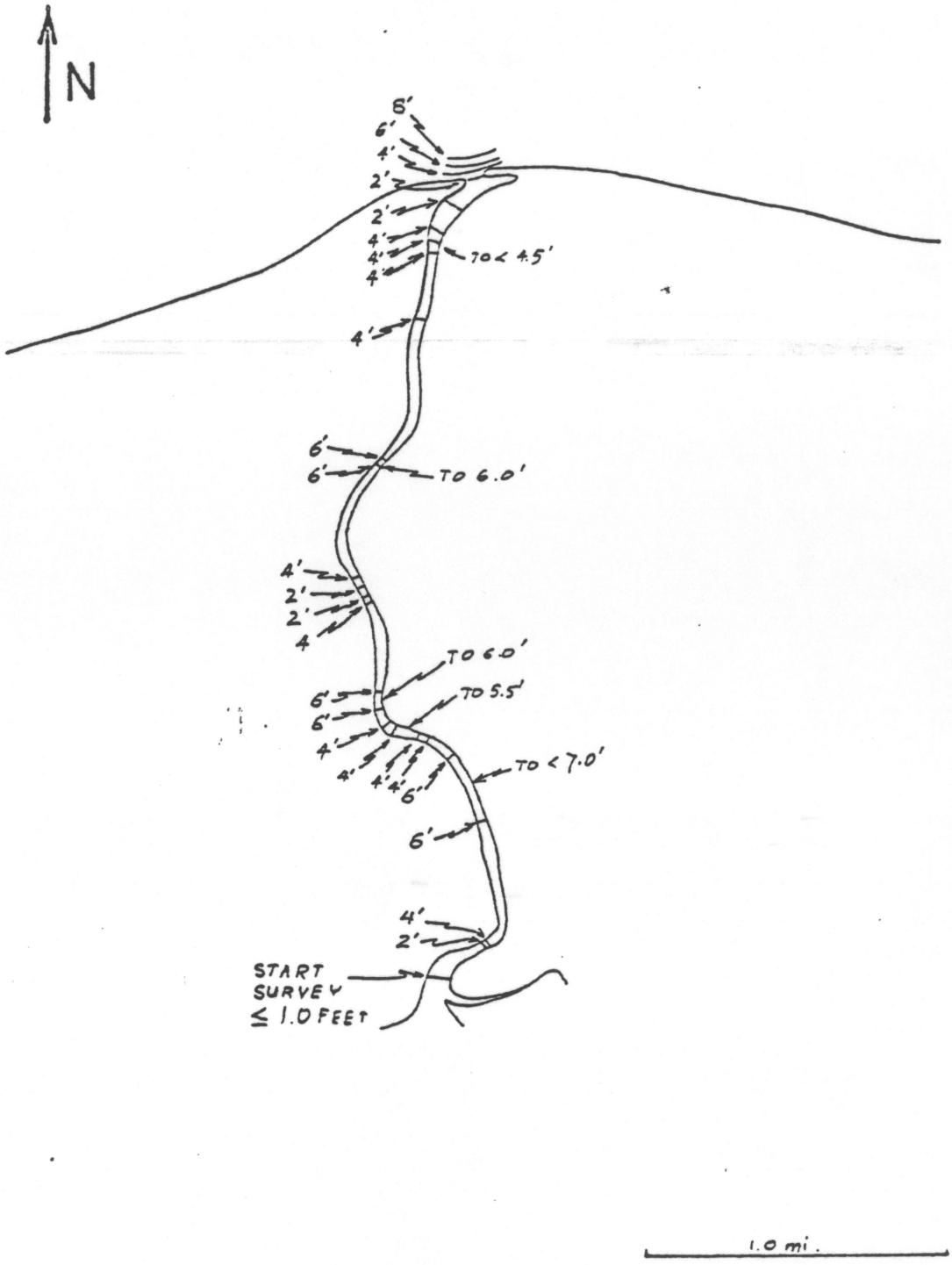
Bureau of Land Management NPR-A

TN
871.2
M45

CONTOURS AT 2 FOOT INTERVALS
(estimated from fathometer transects)

FIG. 20 LAKE IDENTITY: Dalton #3 (Smith River)

Lat. 70° 56' Long. 153° 10' Survey Date: 2 Aug. 1978 Scale: 1:36800



#2. Possible Water

This lake is estuarine. Summer 1977 aerial photographs show this basin drained. This basin was not sampled, but must be very shallow (2 feet) with high salinity.

This will not be an adequate water source.

#3. Smith River

This river is estuarine for at least three miles up from the mouth. A fathometer transect was acquired down midriver with channel depths as shown in Figure 20. No depths greater than 7.0 feet were noted (Table 1).

The Smith River is an anadromous fish stream which contains arctic char, least cisco, and possibly other species. Three arctic char and 15 least cisco were caught on August 2, 1978 in a floating gill net set for 20 hours (Table 2). No fish were captured in two minnow traps set for 20 hours.

This river contains anadromous species and has been proposed as a water source for summer drilling operations. In addition the river will have to be spanned in order to transport supplies to the well site. These activities present potential disturbing effects to fish populations and habitat. A clear channel of sufficient depth to allow migrating fish to traverse the river must be maintained beneath any structure bridging the river. Alternate water sources should be selected in case summer flows are inadequate for water removal.

CARBON TEST WELL SITE (PAD ONLY)

A. LAND USE

Carbon Drilling Site - NW¼ Sec 31, T. 2 N., R. 34 W., Umiat Meridian, protracted

The proposed drilling site is located on public lands within the designated Utukok Uplands Special Area, set aside for the protection of the Western Arctic Caribou Herd at calving time in the spring.

The proposed well site and borrow sites No. 1 and 2 are approximately seven (7) miles west of the Utukok River, which has been proposed as a Wild and Scenic River in H.R. 39. The proposed winter Herc strip, Otter

TABLE 2 FISH COLLECTED AT PROPOSED WELL SITES DURING AUGUST 1978

Well Site	Sampled Source	No	Species	
Lisburne	Iteriak Creek	2	Grayling	*Thymallus arcticus*
Peard	Kugrua River	71	Pink Salmon	*Oncardynchus gorbuscha*
		2	Chum Salmon	*Oncorhynchus leeta*
		11	Least Cisco	*Coregonus sardinella*
		1	Sculpin	Unknown Species
Tapkaluk	Ikroavik Lake	7	Least Cisco	*Coregonus sardinella*
		2	Nine Spined Stickleback	*Pungitius pungitius*
J. W. Dalton	Smith River	3	Arctic Char	*Salvelinus alpinus*
		15	Least Cisco	*Coregonus sardinella*