

GAS PIPELINE HABITAT EVALUATION PROGRAM CROSS-REFERENCE OF
HABITAT MAPS, AERIAL PHOTOGRAPHS AND PIPELINE ALIGNMENT SHEETS

No.	Map Name	Photo No. ¹	Photo No. ¹	Photo No. ¹	Photo No. ¹	Alignment Sheet No. ²		
1.	Nabesna	C1-9 AB	37002	-	-	-	131	-
2.	Nabesna	C1-6 AB	36002	37002	37003	-	131	130
			37004	-	-	-	-	-
3.	Nabesna	C1-3 AB	36002	36004	-	-	130	129
4.	Nabesna	C1-2 AB	36006	-	-	-	129	-
5.	Nabesna	D1-9 AB	36006	-	-	-	129	-
6.	Nabesna	D1-8 AB	36006	36008	36010	-	129	128
7.	Nabesna	D1-7 AB	36008	36010	36012	-	128	-
8.	Nabesna	D1-4 AB	36010	36012	-	-	127	128
9.	Nabesna	D2-6 AB	36010	36012	-	-	126	127
10.	Nabesna	D2-3 AB	36014	36016	-	-	126	125
11.	Nabesna	D2-2 AB	36016	36018	-	-	125	-
12.	-	-	-	-	-	-	-	-
13.	Tanacross	A2-8 AB	36018	36020	36022	-	124	125
14.	Tanacross	A2-7 AB	36018	36020	36022	-	124	-
15.	Tanacross	A2-4 AB	36022	-	-	-	123	-
16.	-	-	-	-	-	-	-	-
17.	Tanacross	A3-6 AB	36022	36024	-	-	122	123
18.	Tanacross	A3-3 AB	36024	36026	34028	-	121	122
19.	Tanacross	A3-2 AB	36026	36028	35003	-	120	121
20.	Tanacross	A4-3 CD	35003	-	-	-	-	-
20.	Tanacross	A3-1 AB	35003	35005	-	-	119	120
21.	Tanacross	B3-8 AB	35003	36028	-	-	-	-
22.	Tanacross	B3-7 AB	35005	35007	-	-	119	120
23.	Tanacross	B4-9 AB	34003	34004	35005	-	118	119
24.	Tanacross	B4-8 AB	34004	33003	35005	-	117	118
25.	Tanacross	B4-6 CD	34003	34004	35005	-	-	-
25.	Tanacross	B4-7 AB	33005	33007	-	-	116	117
26.	Tanacross	B4-5 AB	34004	33003	-	-	117	-
27.	Tanacross	B4-4 AB	33005	33007	-	-	116	117
28.	Tanacross	B5-9 AB	33006	33007	-	-	116	-
29.	Tanacross	B5-6 AB	33007	33009	-	-	116	115
30.	Tanacross	B5-5 AB	33011	33013	-	-	114	115
31.	Tanacross	B5-4 AB	33013	33014	33015	-	113	114
32.	Tanacross	B6-6 AB	33015	33017	33018	-	112	113
33.	Tanacross	B6-5 AB	33018	33019	-	-	112	-
34.	Tanacross	B6-4 AB	33010	33020	-	-	-	-
35.	Tanacross	B6-2 AB	33020	32003	32004	32006	111	110
			32006	-	-	-	-	-
36.	Tanacross	B6-1 AB	32005	-	-	-	110	111
37.	Tanacross	C6-8 AB	32006	32007	32008	-	109	-
38.	Tanacross	C6-7 AB	32007	-	-	-	109	110
39.	-	-	-	-	-	-	-	-

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No.	Map Name	Photo No. ¹	Photo No. ¹	Photo No. ¹	Photo No. ¹	Alignment Sheet No. ²		
40.	Tanacross	C6-4 AB	31004	31006	-	-	109	108
41.	Mt. Hayes	C1-6 AB	31006	31007	31008	-	108	-
42.	Mt. Hayes	C1-3-AB	30003	31007	31008	-	107	108
43.	Mt. Hayes	C1-2 AB	30003	30004	30005	-	107	106
44.	Mt. Hayes	C1-1 AB	30005	30006	30007	30008	106	105
45.	Mt. Hayes	C2-3 AB	30008	30009	30010	29003	105	104
			29004	-	-	-	-	-
46.	Mt. Hayes	C2-2 AB	29003	29004	30010	-	104	-
47.	Mt. Hayes	D2-9 AB	29004	28002	-	-	-	-
47.	Mt. Hayes	D2-8 CD	29004	28002	-	-	103	104
48.	Mt. Hayes	D2-7 AB	28002	28003	28005	28007	103	102
49.	Mt. Hayes	D3-9 AB	28007	28009	-	-	102	-
50.	Mt. Hayes	D2-4 AB	28005	-	-	-	102	-
51.	Mt. Hayes	D3-6 AB	28007	28009	-	-	101	102
52.	Mt. Hayes	D3-5 AB	28009	28010	28011	-	100	101
52.	Mt. Hayes	D3-4 CD	28011	-	-	-	-	-
53.	Mt. Hayes	D3-2 AB	28013	28011	-	-	100	-
54.	Mt. Hayes	D3-1 AB	28011	28013	28015	-	099	100
55.	Mt. Hayes	D4-3 AB	28015	-	-	-	098	099
56.	Mt. Hayes	D4-2 AB	28018	-	-	-	-	-
57.	Big Delta	A4-9 AB	28017	28018	28019	0602 ⁶	097	092
58.	Big Delta	A4-8 AB	28019	27003	0602 ⁶	-	097	-
59.	Big Delta	A4-5 AB	27005	27007	27003	0606 ⁶	096	097
			0604 ⁶	0602 ⁶	-	-	-	-
59.	Big Delta	A4-2 CD	0606 ⁶	0503 ⁶	-	-	095	096
60.	Big Delta	A4-4 AB	26003	26005	27005	-	095	096
61.	Big Delta	A4-1 AB	26005	26007	26008	26009	095	094
			0505 ⁶	0503 ⁶	-	-	-	-
62.	Big Delta	A5-3 AB	26008	26009	-	-	094	-
63.	Big Delta	B4-7 AB	26009	26011	-	-	-	-
64.	Big Delta	B5-9 AB	26009	26011	26013	-	092	093
65.	Big Delta	B5-8 AB	26013	26015	-	-	092	093
66.	Big Delta	B5-6 AB	26015	26016	26017	26018	092	-
67.	Big Delta	B5-4 AB	26020	-	-	-	092	-
68.	Big Delta	B5-5 AB	26018	26019	25004	-	091	092
69.	Big Delta	B5-2 AB	26019	25004	-	-	-	-
70.	Big Delta	B5-1 AB	25004	25006	25008	-	090	091
71.	Big Delta	B6-3 AB	25012	25010	25009	25008	089	090
72.	Big Delta	B6-2 AB	25010	25012	-	-	090	-
73.	-	-	-	-	-	-	-	-
74.	Big Delta	C6-8 AB	25012	25014	24002	-	088	089
75.	Big Delta	C6-7 AB	24002	24004	24006	-	087	088
76.	Big Delta	C6-4 AB	24006	24008	24010	0405 ⁶	086	087
76.	Big Delta	C6-1 CD	0405 ⁶	0302 ⁶	-	-	086	-

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No.	Map Name	Photo No. ¹	Photo No. ¹	Photo No. ¹	Photo No. ¹	Alignment Sheet No. ²		
77.	Fairbanks	C1-6 AB	24012	24010	24008	0405 ⁶	085	-
78.	Fairbanks	C1-3 AB	24012	24013	23002	0405 ⁶	085	086
			0402 ⁶	0304 ⁶	0302 ⁶	-	-	-
79.	Fairbanks	C1-2 AB	23004	23002	-	-	-	-
79.	Fairbanks	D1-6 CD	0308 ⁶	0310 ⁶	-	-	083	084
80.	Fairbanks	D1-9 AB	24016	-	-	-	-	-
80.	Fairbanks	D1-9 CD	0304 ⁶	0306 ⁶	0308 ⁶	0310 ⁶	084	085
81.	Fairbanks	D1-8 AB	24018	23004	23006	0308 ⁶	084	-
			0310 ⁶	-	-	-	-	-
82.	Fairbanks	D1-7 AB	23006	23008	23010	-	-	-
82.	Fairbanks	D1-5 CD	0310 ⁶	0312 ⁶	-	-	082	083
83.	Fairbanks	D1-4 AB	23010	23012	23014	-	-	-
83.	Fairbanks	D1-1 CD	0306 ⁶	0205 ⁶	0204 ⁶	0202 ⁶	081	082
84.	Fairbanks	D2-6 AB	23014	23012	-	-	-	-
84.	Fairbanks	D1-2 CD	0306 ⁶	0202 ⁶	-	-	081	-
85.	Fairbanks	D2-3 AB	23014	23016	23017	23018	081	-
			0210 ⁶	0209 ⁶	0206 ⁶	-	-	-
86.	Fairbanks	D2-2 AB	23018	23019	23020	22002	080	-
87.	Livengood	A2-9 AB	0105 ⁶	0104 ⁶	-	-	080	081
88.	Livengood	A2-8 AB	22002	22003	22004	22005	079	080
			22007	0106 ⁶	0104 ⁶	-	-	-
89.	Livengood	A2-7 AB	22005	22007	22008	-	079	078
90.	Livengood	A2-4 AB	22007	22008	22009	22010	077	078
				22011	22012	-	-	-
91.	Livengood	A3-6 AB	22012	22013	-	-	077	-
92.	Livengood	A2-1 AB	22012	22013	-	-	-	-
93.	Livengood	A3-3 AB	22013	22014	22015	22016	076	077
			22017	21002	-	-	-	-
94.	Livengood	A3-2 AB	21002	21003	-	-	076	-
95.	Livengood	B3-9 AB	21002	21003	21004	-	075	-
96.	Livengood	B3-8 AB	21003	21006	21008	-	075	074
97.	Livengood	B3-7 AB	21008	21006	-	-	074	-
98.	Livengood	B3-5 AB	21008	21010	-	-	074	-
99.	Livengood	B3-4 AB	21008	21010	21012	-	074	073
100.	Livengood	B4-6 AB	21012	21014	-	-	-	-
101.	Livengood	B3-1 AB	21012	21014	-	-	-	-
102.	Livengood	B4-3 AB	21014	21015	21017	-	071	072
103.	Livengood	B4-2 AB	21019	21017	-	-	071	-
104.	Livengood	C4-9 AB	21019	21021	-	-	-	-
105.	Livengood	C4-8 AB	21021	21023	21024	-	071	070
106.	Livengood	C4-7 AB	21024	21026	-	-	070	-
107.	Livengood	C4-4 AB	21026	21027	21018	21029	069	070
108.	Livengood	C5-6 AB	21028	21029	21030	21032	068	069
109.	Livengood	C5-3 AB	21030	21032	20002	20004	068	-

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No.	Map Name	Photo No. ¹	Photo No. ¹	Photo No. ¹	Photo No. ¹	Alignment Sheet No. ²			
110.	Livengood	C5-2 AB	20002	20004	20006	20007	067	068	-
111.	Livengood	C5-1 AB	20007	20009	-	-	067	-	-
112.	Livengood	D5-8 AB	20006	20007	20009	-	067	-	-
113.	Livengood	D5-7 AB	20009	20010	20011	20012	066	067	-
			20013	-	-	-	-	-	-
114.	Livengood	D6-9 AB	20012	20013	20014	20015	065	066	-
			20017	-	-	-	-	-	-
115.	-	-	-	-	-	-	-	-	-
116.	Livengood	D6-6 AB	20014	20015	20017	20018	064	065	-
			20019	19002	-	-	-	-	-
117.	Livengood	D6-5 AB	20017	20019	19002	19003	063	064	-
			19005	-	-	-	-	-	-
118.	Livengood	D6-4 AB	19005	-	-	-	-	-	-
119.	Livengood	D6-2 AB	19003	19005	19007	-	063	-	-
120.	Livengood	D6-1 AB	19005	19007	19009	19011	062	063	-
121.	Tanana	D1-3 AB	19009	19011	19012	-	061	062	-
122.	Beaver	A6-7 AB	19012	19011	18002	-	-	-	-
123.	Bettles	A1-9 AB	18002	18003	-	-	060	061	-
124.	Bettles	A1-8 AB	18003	18003	-	-	060	-	-
125.	Bettles	A1-6 AB	18004	18005	18006	17002	059	060	-
126.	Bettles	A1-5 AB	17002	17003	17005	-	059	-	-
127.	-	-	-	-	-	-	-	-	-
128.	Bettles	A1-2 AB	17007	17009	-	-	058	059	-
129.	Bettles	A1-1 AB	17007	17009	-	-	058	-	-
130.	Bettles	B1-8 AB	17007	17009	17010	-	057	-	-
131.	Bettles	B1-7 AB	17009	17010	17011	17012	056	057	-
			17013	-	-	-	-	-	-
132.	Bettles	B1-4 AB	17012	17013	17014	17015	055	056	-
			17016	17017	-	-	-	-	-
133.	Bettles	B2-6 AB	17014	17015	17016	17017	055	-	-
			17018	17019	-	-	-	-	-
134.	-	-	-	-	-	-	-	-	-
135.	Bettles	B2-3 AB	17019	17020	17021	17022	054	055	-
136.	Bettles	B2-2 AB	17021	17022	17023	17024	054	-	-
137.	Bettles	C2-9 AB	17023	17024	-	-	-	-	-
138.	Bettles	C2-8 AB	17024	16003	16005	16007	052	053	054
139.	Bettles	C2-6 AB	16007	16009	16011	-	052	-	-
140.	Bettles	C2-5 AB	16007	16009	16011	-	052	-	-
141.	Bettles	C2-3 AB	16011	16013	16014	-	050	051	052
142.	Bettles	C2-2 AB	16011	16013	16015	-	050	051	052
143.	Bettles	D2-9 AB	16015	16017	16019	15002	049	050	-
			15003	15004	-	-	-	-	-

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No.	Map Name	Photo No. ¹	Photo No. ¹	Photo No. ¹	Photo No. ¹	Alignment Sheet No. ²
144.	Bettles	D2-8 AB	16015	16017	16019	15002 050 - -
145.	Bettles	D2-6 AB	15003	15004	15005	- 048 049 -
146.	Bettles	D1-4 AB	15006	15007	15008	- 048 - -
147.	Bettles	D1-1 AB	15009	15010	15011	15012 047 048 -
148.	Bettles	D1-2 AB	15013	15015	15017	15018 047 - -
			15019			
149.	Wiseman	A1-7 AB	14005	15017	15018	- 046 - -
150.	Wiseman	A1-8 AB	14003	14004	14006	15018 046 047 -
151.	Wiseman	A1-4 AB	14006	14008	14009	14010 045 046 -
152.	Wiseman	A1-5 AB	14008	14009	14010	- 045 046 -
153.	Wiseman	A1-1 AB	13003	13004	14010	- 044 045 -
154.	Wiseman	A1-2 AB	13004	13005	13006	- 043 044 -
155.	Wiseman	B1-8 AB	13008	13008	13009	- 042 043 -
156.	Wiseman	B1-9 AB	13009	13010	13011	13012 042 043 -
157.	Wiseman	B1-6 AB	13012	13013	13014	13015 041 042 -
158.	Wiseman	B1-3 AB	12001	12002	12003	12004 040 041 -
			13015	-	-	- -
159.	Chandalar	B6-1 AB	12003	12004	12005	12006 040 - -
160.	Chandalar	B6-2 AB	11003	12006	-	- - -
161.	Chandalar	C6-7 AB	11003	11004	11005	11006 039 040 -
162.	Chandalar	C6-8 AB	11003	11004	11005	11006 039 - -
163.	Chandalar	C6-5 AB	11006	11008	11009	11010 037 038 039
164.	Chandalar	C6-2 AB	10004	10005	10006	10007 036 037 -
			10008	11010	-	- - -
165.	Chandalar	D6-8 AB	10008	10009	10010	10012 035 036 -
166.	Chandalar	D6-7 AB	10018	-	-	- 035 - -
167.	Chandalar	D6-4 AB	10014	10015	10016	10017 034 035 -
168.	Chandalar	D6-5 AB	10016	10017	10018	10019 034 035 -
			09002	-	-	- - -
169.	Chandalar	D6-1 AB	09002	09003	09004	10012 034 - -
170.	Chandalar	D6-2 AB	09004	09005	09006	09007 033 034 -
171.	Philip Smith Mts.	A5-8 AB	09007	09008	09009	09011 032 033 -
172.	Philip Smith Mts.	A5-9 AB	09011	09012	09013	09015 032 - -
173.	Philip Smith Mts.	A5-6 AB	09015	09016	09017	08002 031 - -
			08004	-	-	- - -
174.	Philip Smith Mts.	A5-3 AB	08004	08005	08006	08007 029 030 -
175.	Philip Smith Mts.	A4-1 AB	08005	08006	08007	- 030 - -
176.	Philip Smith Mts.	B5-9 AB	08009	-	-	- 029 - -
177.	Philip Smith Mts.	B4-7 AB	08009	08011	08012	08014 028 029 -
178.	Philip Smith Mts.	B4-4 AB	08014	08015	08016	07004 027 028 -
179.	Philip Smith Mts.	B4-1 AB	07004	07005	07006	- 027 - -
180.	Philip Smith Mts.	B5-3 AB	07005	07006	07007	07009 026 027 -
			07010	-	-	- - -
181.	Philip Smith Mts.	C5-9 AB	07010	07011	07012	06002 025 026 -
182.	Philip Smith Mts.	C5-6 AB	06002	06003	06004	06005 024 025 -

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No.	Map Name	Photo No. 1	Photo No. 1	Photo No. 1	Photo No. 1	Alignment Sheet No. 2
183.	Philip Smith Mts. C4-4 AB	06005	06007	06008	-	023 024 -
184.	Philip Smith Mts. C4-1 AB	06008	06009	06011	06012	023 - -
185.	Philip Smith Mts. C4-2 AB	06012	06014	06016	-	022 023 -
186.	Philip Smith Mts. C4-3 AB	06014	06016	05002	-	021 022 -
187.	Philip Smith Mts. D4-9 AB	05002	05003	05004	-	020 021 -
188.	Philip Smith Mts. D4-6 AB	05004	05005	05006	05007	019 020 -
189.	Philip Smith Mts. D3-4 AB	05007	05019	05010	-	- - -
190.	Philip Smith Mts. D4-3 AB	05010	05012	05014	-	018 019 -
191.	Philip Smith Mts. D3-1 AB	05010	05012	05014	-	- - -
192.	Sagavanirktok A4-9 AB	05014	05016	05018	-	017 - -
193.	Sagavanirktok A3-7 AB	05016	05027	05028	-	017 - -
194.	Sagavanirktok A4-6 AB	05018	05020	05022	-	015 016 -
195.	Sagavanirktok A3-4 AB	05018	05020	05022	05024	016 - -
196.	Sagavanirktok A4-3 AB	05024	05026	04002	-	015 - -
197.	Sagavanirktok B3-1 AB	05024	05026	04002	-	014 015 -
198.	Sagavanirktok B4-9 AB	04002	04004	-	-	014 - -
199.	Sagavanirktok B3-7 AB	04002	04004	04006	-	013 014 -
200.	Sagavanirktok B3-4 AB	04006	04008	04010	04011	012 013 -
		01002 ⁴	01004 ⁴	02002 ⁴	-	- - -
201.	Sagavanirktok B3-5 AB	04010	04011	04012	-	- - -
202.	Sagavanirktok B3-1 AB	04012	04013	02002 ⁴	02004 ⁴	012 - -
203.	Sagavanirktok B3-2 AB	04013	04014	03003	-	011 012 -
204.	Sagavanirktok C3-7 AB	03003	03005	03007	-	010 - -
205.	Sagavanirktok C3-8 AB	03003	03005	03007	-	010 011 -
206.	Sagavanirktok C3-4 AB	03007	03009	03011	-	009 010 -
207.	Sagavanirktok C3-5 AB	03007	03009	03011	-	- - -
208.	Sagavanirktok C3-1 AB	03011	03013	03015	03017	008 009 -
209.	Sagavanirktok D3-7 AB	03017	03019	03021	-	007 008 -
210.	Sagavanirktok D3-4 AB	03021	03023	03024	02002	006 007 -
		02004	-	-	-	- - -
211.	Sagavanirktok D4-6 AB	03021	03023	03024	02002	006 - -
212.	Sagavanirktok D4-3 AB	02002	02004	02005	-	- - -
213.	Sagavanirktok D3-1 AB	02004	02005	02006	02008	005 006 -
214.	Beechey Point A3-7 AB	02006	02008	02010	01A004	004 005 -
215.	Beechey Point A3-8 AB	02008	02010	-	-	004 - -
216.	Beechey Point A3-4 AB	01A004	01A006	01A008		003 - -
217.	Beechey Point A3-5 AB	02014	02016	01A004	01A006	003 004 -
218.	Beechey Point A3-1 AB	01A008	01A010	01A012	-	002 003 -
219.	Beechey Point A3-2 AB	01A010	01A012	02016	02018	002 - -
		01003	01005	-	-	- - -
220.	Beechey Point A3-3 AB	01003	02018	-	-	- - -

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221.	Beechey Point B3-7 AB	01A012 08018 ⁵	07017 ⁵ -	07019 ⁵ -	08017 ⁵ -	001 - -
222.	Beechey Point B3-8 AB	01005 05017 ⁵	01007	07017 ⁵	06017 ⁵	001 - -

¹Unless otherwise noted, photos are from the 1978 true color set of photography taken by Northwest Alaskan Pipeline Company.

²All alignment sheet numbers are from the November 1980 Series

³Alignment is not covered by the 1978 true color photo band.

⁴These photos were exposed in June 1979 by Northwest Alaskan Pipeline Company during a reflight mission at a scale of 1:24000.

⁵These photos of Prudhoe Bay were exposed in July 1979 by Air Photo Tech. at a scale of 1:18000.

⁶These photos were exposed in September 1980 by Northwest Alaskan Pipeline Company at a scale of 1:24000.

Table 1. Types used to map the Alaska Natural Gas Transportation System route and their respective symbols.

Type Symbol	Coverttype	Type Symbol	Coverttype	Type Symbol	Coverttype
01-00	Sedge-Grass Tundra	13-01	Deciduous Forest-Open	19-01	Forested Wetland-Conifer
02-01	Sedge-Tussock Tundra	13-02	Deciduous Forest-Closed	20-01	Mixed Shrub Wetland
02-02	Sedge-Shrub Tussock Tundra			21-00	Moss Bog
03-00	Alpine Tundra	14-01	Mixed Conifer-Deciduous Forest-Open	22-01	Wet Tundra
04-00	Mat & Cushion Tundra	14-02	Mixed Conifer-Deciduous Forest-Closed	22-02	Sedge-Grass Marsh
05-00	Shrub Tundra			22-03	Brackish Sedge Marsh
06-01	Tall Shrub-Upland Willow	15-00	Unvegetated Floodplain	23-11	Pond - 0-25% Emergent Cover
06-02	Tall Shrub-Upland Mix	16-00	Bare Ground (sand dunes, cut banks, talus)	23-12	Pond - 25-75% Emergent Cover
06-03	Tall Shrub-Upland Burn	17-00	Agriculture	23-13	Pond - 75-100% Emergent Cover
07-01	Tall Shrub-Riparian Willow	18-01	Airstrips	23-20	Pond - No Emergent Cover
07-02	Tall Shrub-Riparian Mix	18-02	Camps	24-11	Lake - 0-25% Emergent Cover
08-01	Low Shrub-Upland Willow	18-03	Tailing Piles	24-12	Lake - 25-75% Emergent Cover
08-02	Low Shrub-Upland Mix	18-04	Utilities Corridor	24-13	Lake - 75-100% Emergent Cover
09-01	Low Shrub-Riparian Willow	18-05	Haul Road	24-20	Lake - No Emergent Cover
09-02	Low Shrub-Riparian Mix	18-06	Material Sites		
10-00	Mud Flats/Dried Organic Matter on recently drained areas	18-07	Disposal Sites	25-01	Stream - Braided
11-00	Revegetated Sites	18-08	Urban Development (including homesteads)	25-02	Stream - Incised
12-01	Conifer Forest-Open	18-09	Storage Pad	25-03	Stream - Meandering
12-02	Conifer Forest-Closed	18-10	Man Caused Erosion	25-04	Stream - Beaded
12-03	Conifer Forest-Dwarf	18-11	Military Establishment	25-05	Stream - High Gradient Mountain
12-04	Conifer Forest-Burned	18-12	Primary Roads	26-01	River - Braided
		18-13	Secondary Roads (side streets, access roads)	26-02	River - Incised
		18-14	Highway Maintenance Stations	26-03	River - Meandering
		18-15	Pump Stations		
		18-16	Drill Pad		
		18-17	Petroleum Feeder lines		
		18-18	Holding Pond		
		18-19	Construction Facilities		
C - Clouds		S - Shadow			

Sedge Grass Tundra (01-00)

Sedge-grass tundra can be found in areas underlain by permafrost, particularly on the Arctic Coastal Plain and arctic foothills or Brooks Range where drainage is poor. Sedges are the primary constituent of these communities often comprising 80% of the vegetation. Carex aquatilis, C. Bigelowii, C. saxatilis and Eriophorum sp. are some of the most common species. Grasses of the genera Arctagrostis, Poa, Dupontia and Hierochloë may occur. Several species of willows such as Salix reticulata, S. arctica, S. lanata and S. rotundifolia are often present. Flowering herbs such as Saxifraga oppositifolia, S. hieracifolia, Polygonum viviparum, Papaver Hultenii, Aster sibiricus and Saussurea angustifolia may also occur. Dryas integrifolia is usually present in the form of loose mats. Sedge-grass tundra may be moist but usually does not contain standing water in August.

Sedge-grass tundra, type 01-00, along the Sagavanirktok River south of Prudhoe Bay, Alaska.



Tussock Tundra (02-00)

~~Tussock tundra may occur along the pipeline route from the northern foothills region of the Brooks Range to the Canadian border.~~

This type is characterized by loosely formed to compacted tussocks dominated by Eriophorum vaginatum, Carex Bigelowii, Rubus chamaemorus, mosses and lichens may also occur. Shrub species present may include Betula nana, B. glandulosa, Vaccinium vitis-idaea, V. uliginosum, Ledum palustre, Arctostaphylos rubra, Potentilla fruticosa and members of the genus Salix.

Two qualifiers are used when identifying Tussock Tundra: sedge (01) and sedge-shrub (02). Sedge tussock type (02-01) indicates that the aerial coverage of shrubs is less than 30 percent. Sedge-shrub tussock (02-02) indicates the presence of shrubs with an aerial coverage of 30 percent or greater.

Sedge-shrub tussock tundra, type 02-02, near the Chatanika River crossing of TAPs.

Alpine Tundra (03-00)

Alpine tundra is characterized by matted vegetation and stunted plant growth due to wind and prolonged snow cover. This type occurs above tree-line on mountain slopes and includes rock talus found above the zone of vegetation.

Heaths and shrubs are common in many alpine communities. Dryas integrifolia and D. octopetala often occur in the form of mats which may stabilize alpine areas. Empetrum nigrum, Arctostaphylos rubra, A. alpina, Vaccinium uliginosum, and V. vitis-idaea, Salix reticulata, S. phlebophylla, S. polaris, S. rotundifolia, S. arctica, S. glauca, and S. planifolia pulchra are often found in dwarfed form. Betula nana, Ledum palustre, Spiraea Beauverdiana and Potentilla fruticosa may also be present.

Alpine tundra areas also contain a relatively high diversity of herbaceous plants such as Saxifraga sp., Anemone narcissiflora, Bupleurum triradiatum, Campanula lasiocarpa, Astragalus sp., Potentilla sp., Polygonum sp., Myosotis sp., Pedicularis sp., and Arnica sp. as well as lichens and mosses.

Alpine tundra, type 03-00, near Atigun Summit in the Brooks Range.

Mat and Cushion Tundra (04-00)

Mat and Cushion Tundra is composed of low forming woody and herbaceous plants. It is differentiated from Alpine Tundra (03-00) by occurring at low elevations, predominantly on dry river terraces on the Arctic Coastal Plain. Plants in this type are prostrate due to wind and low temperatures and are dominated by Cassiope sp. and Dryas sp. Other species which may occur include Arctostaphylos rubra, Saxifraga sp., Empetrum nigrum, Vaccinium uliginosum, Rhododendron lapponicum, Arnica Lessingii, Lupinus arcticus, Polygonum bistorta, Minuartia arctica, Juncus sp., Senecio atropurpureus, Pedicularis sp., Oxytropis Maydelliana, Stellaria sp., Eriophorum sp., Carex sp., Salix glauca, S. arctica and some lichens.

Mat and cushion tundra, type 04-00, south of Alyeska Pump Station 2,
Franklin Bluffs, Alaska,

Shrub Tundra (05-00)

Vegetation in this type is underlain by permafrost and consists primarily of Betula nana and several species of Salix.

Shrub Tundra communities usually contain an overstory of Betula nana and several species of Salix , (including Salix arctica, S. pulchra and S. rotundifolia), a middle layer of Vaccinium ugliginosum and Ledum palustre and an understory of Vaccinium vitis-idaea, Rubus chamaemorus, Eriophorum vaginatum (forming tussocks), Petasites frigidus, Stellaria Edwardsii, lichens and mosses. The height of Betula and Salix varies significantly from site to site. In some areas willows are more predominant than birch. Shrub tundra is well drained although moisture may occur between tussocks (if present).

Shrub Tundra, type 05-00, near slope Mountain, south of Alyeska Pump station
3.

Tall (06-00) and Low (08-00) Shrub Upland

Tall and Low Shrub Upland types are generally composed of species from the genera Salix and Betula. Salix lanata, S. pulchra, S. glauca, S. planifolia var. pulchra, S. bebbiana, S. myrtillofolia, S. hastata, Betula nana, B. glandulosa and B. papyrifera are a few of the more common species present. Vegetation occurring in the understory may include Vaccinium vitis-idaea, V. uliginosum, Alnus sp., Arctostaphylos rubra, Potentilla fruticosa, Ledum palustre, Petisites frigidus and Polygonum bistorta.

Tall and Low Shrub Upland types are separated by height differences. Vegetation occurring within the Tall Shrub Upland type (06) range in size from 4-18 feet. A Low Shrub Upland type (08) is used if the vegetation is less than 4 feet.

Three qualifiers are used when identifying Tall and Low Shrub Upland types: Willow, Mix, and Burn. The Willow qualifier (represented as 01) is used when the members of the genera Salix are predominant. The Mix qualifier (represented as 02) is used when a mixture of woody species is present. The Burn qualifier (represented as 03) is used with the Tall Shrub type in areas which have been recently burned. These areas contain a mixture of plant species with burned deadfall trees scattered throughout. These types are found on well-drained sites south of the Brooks Range.

Tall shrub-upland burn, type 06-03, near Delta Junction, Alaska.

Tall (07-00) and Low (09-00) Shrub Riparian

Tall Shrub Riparian types range in height from 4-12 feet. Low Shrub Riparian types occur when the vegetation is less than 4 feet in height. These two classes occur next to and within stream and river channels. The major genera occurring is Salix, although Betula nana, B. glandulosa, Vaccinum sp., Alnus sp., Spiraea Beauverdiana, Empetrum nigrum, Rubus sp., Aconitum delphinifolium, Polemonium acutiflorum, Valeriana capitata, and Viola epipsila subsp. repens may be found along with moss and various grasses and sedges.

Two qualifiers are used when identifying this type: Willow and Mix. The Willow qualifier (represented as 01) is used when the major genera present is Salix. The Mix qualifier (represented as 02) is used when a mixture of woody species are present.

Low shrub-Riparian willow, type 09-01, along a small drainage west of Sagwon Bluffs.

Mud Flats/Dried Organic Matter (10-00)

This type is commonly associated with portions of lakes and ponds which become exposed by drainage or evaporation. The substrate is usually composed of mud (silts and clays) which occur along lake shorelines and drained basins or organic matter (decomposed plant material) found in some ephemeral ponds. Vegetation on these sites is sparse.

A drained pond, type 10-00, south of Prudhoe Bay, Alaska.

Revegetated Sites (11-00)

This type includes material sites or other areas which have been disturbed due to construction activities and have been revegetated. Most or all of the plant species present are from the family Poaceae and no species identification was attempted.

Revegetated material site, type 11-00, south of Jackson's slough (Middle Fork of the Koyukuk River).

Conifer Forest (12-00)

Picea mariana is the most common species in the conifer forest type, although Picea glauca is common on well drained sites such as hillsides, sandy soil or gravel substrate. Larix laricina is abundant in the Tanana Valley where it occurs mixed with spruce. Heights of these species may range from 10-65 feet.

Although variable in species composition, the understory in a coniferous forest is often composed of Betula nana and members of the genus Salix, Ledum palustre, Rosa acicularis, and Shepherdia canadensis growing approximately .5 to 1.5 feet in height. Arctostaphylos rubra, Vaccinium vitis-idaea, Equisetum pratense, E. silvaticum, Lupinus arcticus, Pedicularis verticillata, Saussurea angustifolia, Artemisia Tilesii, sphagnum moss and lichens may also be present.

The Conifer forest has four possible qualifiers: Open Conifer (12-01), Closed Conifer (12-02), Dwarf (12-03) and Burned (12-04). An Open Conifer forest was used when the conifer species present occupied 5-60% of the area being coverted. If the ground coverage was greater than 60% it was typed as a Closed Conifer forest. Areas which contained stunted conifers with slow growth rates due to varying soil and harsh climate conditions were typed as Dwarf Conifer (12-03). Burned Conifer forest (12-04) was used to describe areas which had been recently burned with no appreciable growth.

Closed conifer forest, type 12-02 near Tok, Alaska.

Deciduous Forest (13-00)

Populus tremuloides, P. balsamifera, Betula papyrifera, or a combination of the three form most of the deciduous forest types although small amounts of Salix sp. and Picea sp. are sometimes found. The understory of deciduous forests is usually comprised of Shepherdia canadensis, Rosa acicularis, Arctostaphylos rubra, A. uva-ursi, Epilobium angustifolium, Mertensia paniculata, Astragalus sp. and Equisetum sp. as well as lichens and mosses.

Two qualifiers separate deciduous forest into Open (13-01) or Closed (13-02). As in the conifer forest types, 5-60% ground coverage of the deciduous species present designate an Open Forest and 60% or greater designate a Closed Forest.

Closed deciduous forest, type 13-02, north of Alyeska pump station No. 8, south of Fairbanks, Alaska.

Mixed Forest (14-00)

Mixed forests are composed of Picea mariana, P. glauca, Larix laricina, Populus tremuloides, P. balsamifera and Betula papyrifera. Neither conifer nor deciduous species exhibit a clear dominance in this type. One or more species of Salix may be present as an intermediate layer and may attain heights greater than 4 feet. The understory generally consists of Ledum palustre, Shepherdia canadensis, Arctostaphylos sp., Rosa acicularis, Mertensia paniculata, Epilobium angustifolium, Viburnum edule, Linnaea borealis and Lupinus arcticus.

Two qualifiers separate Mixed Forest into Open (14-01) or Closed (14-02). As in the conifer forest types, 5-60% ground coverage of the mixed species present designate an Open Forest and 60% or greater designate a Closed Forest.

Closed Mixed forest, type 14-02, near Northway, Alaska.

Unvegetated Floodplain (15-00) and Bare Ground (16-00)

These two types are used to represent those areas which contain little or no vegetation. Unvegetated Floodplain (15-00) occurs within active stream and river channels and usually consists of gravel to boulder sized rocks, sand (either wind or water deposited), mud flats and/or driftwood debris. Bare ground (16-00) commonly occurs as unvegetated hillsides, talus slopes or cut banks along streams or rivers.

Unvegetated floodplain, type 15-00, along the Middle Fork of the Koyukok River.

Agriculture (17-00)

This type is used in areas where the natural vegetation has been destroyed for agricultural purposes. This type includes areas used for root crops, small grains, and forage crops. However, the agricultural type was not used if the area had reverted back to a natural state with reinvasion of native plants.

Farming, type 17-00, near Delta Junction, Alaska. Area to left is planted with barley, area to right has recently been cleared and not yet planted.

Man-made Effects (18-00)

This type includes man-made, semi-permanent to permanent disturbances to the native vegetation and surrounding landforms. These areas may or may not be revegetated. Listed below are the qualifiers possible:

- | | |
|--|--|
| 01 Airstrips (public, private
and military) | 11 Military Establishments |
| 02 Construction Camps | 12 Primary Highways |
| 03 Tailing Piles | 13 Secondary Highways and
Access Roads |
| 04 Utilities: pipeline (above and
below ground) and power lines | 14 Highway Maintenance Station |
| 05 North Slope Haul Road | 15 Pump Station (Alyeska and
military) |
| 06 Material Sites | 16 Drill Pad |
| 07 Disposal Sites | 17 Petroleum Feeder Lines |
| 08 Urban Development (including
homesteads | 18 Holding Pond |
| 09 Storage Pad | 19 Construction Facilities (other
than camps) |
| 10 Man-caused Erosion | |

Alyeska Pump Station No. 5, type 18-15, near Prospect, Alaska.

Forested Wetland (19-01)

Picea mariana is the dominant species present in this type although Larix laricina may occasionally occur. Water is often at or near the surface causing shallow root systems. Heights of these two species may vary between four and twenty feet depending on substrate and amount of water present. Species occurring in the understory include Betula nana, Salix sp., Ledum palustre, Equisetum silvaticum, Sphagnum sp., grasses and sedges.

Low oblique photograph of a Forested wetland, type 19-01, near Dot Lake, Alaska.

Mix Shrub Wetland (20-01)

Mix Shrub Wetlands commonly contain a mixture of Salix sp. and Betula sp. that grow to heights of 3-12 feet. Water tolerant species such as Salix planifolia subsp. pulchra, S. hastata, S. fuscescens and Betula nana are the more common forms. Eriophorum sp. and Carex sp. were common as are Rosa acicularis, Potentilla palustris, Petasites frigidus, Parnassia palustris, Iris setosa, Vaccinium uliginosum, Ledum palustre and Senecio pauperculus.

Mix shrub wetlands contain water at or near the surface but are not underlain by permafrost. Tussocks are common but not a dominant feature.

Mix shrub wetland, type 20-01, east of Tok, Alaska.

Moss Bog (21-00)

This type is characterized by having Sphagnum sp. as the dominant ground cover. Other plants include Picea mariana, Ledum palustre, Vaccinium sp., Rubus chamaemorus, and a sparse occurrence of Eriophorum sp. and Carex sp.

Portion of a small Moss bog, type 21-00, near the Chatanika River.

Wet Tundra (22-01)

Wet Tundra areas are generally vegetated by the genera Carex and Eriophorum. Carex aquatilis, C. saxatilis, Eriophorum angustifolium and E. Scheuchzeri usually comprise more than 90% of the ground cover. Saxifraga hirculus, Pedicularis sudetica, Salix arctica, Caltha palustris, Cardamine sp. and mosses may also occur. One to four inches of standing water is usually present in August. This type is only found on the Arctic Coastal Plain.

Wet tundra, type 22-01, south of Prudhoe Bay, Alaska.

Sedge-grass Marsh (22-02)

Sedge-grass Marsh is dominated by plants from the genus Carex which comprise approximately 80% of this type. Equisetum fluviatile, Nuphar polysepalum and several mosses also occur. Arctophila fulva and Carex aquatilis are the dominant species on the Arctic Coastal Plain. Sedge-grass marsh is most common along lake and pond margins.

Sedge-grass marsh, type 22-02, near the Tanana River east of Tok, Alaska.

Brackish Sedge Marsh (22-03)

Brackish Sedge Marsh is found in areas influenced by sea water at the Beaufort Sea coast or in river deltas. These areas may be affected by seawater wind blown spray. Carex subspathacea and Puccinellia phryganodes represent 95% of the plant species present. Other species such as Stellaria humifusa, Sedum rosea subsp. integrifolium and Elymus arenarius may also be found. Brackish sedge marshes may be moist or contain standing water depending on drainage.

Brackish sedge marsh, type 22-03, near Prudhoe Bay, Alaska. (Photo by Tom Rothe).

Ponds (23-00) and Lakes (24-00)

Ponds are classified as bodies of water greater than one acre in size but less than 10 acres. Lakes are bodies of water larger than 10 acres.

Ponds and Lakes vary from no vegetative coverage to complete coverage by floating and/or emergent vegetation. Major plants found, include species from the genera Carex and Arctophila as well as Equisetum fluviatile, Nuphar polysepalum and Lemna sp.

Four qualifiers are used to describe the amount of vegetation cover present. When a water body is free of vegetation, -20 is used after the respective Pond (23) or Lake (24) class (e.g. 23-20 or 24-20). When the water body is vegetated three possible qualifiers may be used to indicate the amount of vegetation present. Coverage of 0-25%, 25-75% and 75-100% are indicated by -11, -12 and -13, respectively. As an example, a Pond having 25-75% of its surface area covered by vegetation would be labeled as 23-12.

Pond, type 23-12, south of Prudhoe Bay, Alaska. Reddish emergent vegetation is Arctophila fulva.

Streams (25-00) and Rivers (26-00)

Streams and Rivers include those bodies of water contained within an active channel or floodplain and are separated on the basis of size. Streams are identified as having a maximum width of 25 to 30 feet. Channels greater than 30 feet in width are identified as Rivers. Rivers and Streams may flow permanently or intermittently throughout the year depending upon ground water table and annual rainfall. Riverine side channels are included in the River type although the side channel width may be less than 30 feet.

Five qualifiers are used to better describe the Stream or River type: Braided (01), Incised (02), Meandering (03), Beaded (04), and High Gradient Mountain (05). Braided Streams and Rivers are characterized by having two or more interweaving sub-channels located within a main channel and are in an active state of change. A Stream or River which is Incised has one "V" shaped main channel which has cut deeply into the surrounding landform. The Meandering qualifier is used when relatively slow moving water is present and the channel follows a winding and turning course. The Beaded qualifier is used to describe streams north of the Brooks Range and are characterized by having a series of short stream channels connected by small pools. High Gradient Mountain Streams occur in mountainous areas where water flow is relatively fast down a medium to high gradient.

Braided River, type 26-01, shown by the West Fork of the North Fork of the Chandalar River.

Summary of wetland habitat types intersected by the proposed ANGTS Route from the Canadian border to Tetlin Junction, Alaska.

Flight Line Number	LINEAR DISTANCE OF HABITAT TYPES INTERSECTED (Feet)							Gasline Distance ^a	Inclusive Milepost Numbers
	01-00	02-01	02-02	07-01	07-02	09-01	09-02		
37			975					13,200	739.9-737.4
36			9,000					308,880	737.4-678.9
35								46,992	678.9-670.0
34								34,320	670.0-663.5
TOTALS			9,975					403,392	663.5-739.9

Summary of wetland habitat types intersected by the proposed ANGTS Route from Tetlin Junction to Big Delta, Alaska.

Flight Line Number	LINEAR DISTANCE OF HABITAT TYPES INTERSECTED (Feet)							Gasline Distance ^a	Inclusive Milepost Numbers
	01-00	02-01	02-02	07-01	07-02	09-01	09-02		
33								186,384	663.5-628.2
32			1,100					71,808	628.2-614.6
31								61,776	614.6-602.9
30								82,896	602.9-587.2
29								44,880	587.2-578.7
28								166,320	578.7-547.2
27								38,016	547.2-540.0
TOTALS			1,100					652,080	663.5-540.0

^a Distances are inclusive within flight line boundaries.

Summary of wetland habitat types intersected by the proposed ANGTS Route from Big Delta to the Yukon River, Alaska.

Flight Line Number	LINEAR DISTANCE OF HABITAT TYPES INTERSECTED (Feet)							Gasline Distance ^a	Inclusive Milepost Numbers
	01-00	02-01	02-02	07-01	07-02	09-01	09-02		
26								128,304	540.0-515.7
25			5,050		1,100			98,208	515.7-497.1
24					350			98,208	497.1-478.5
23								141,504	478.5-451.7
22			3,575					125,664	451.7-427.9
21			3,150					233,376	427.9-383.7
20								124,080	383.7-360.2
TOTALS			11,775		1,450			949,344	540.0-360.2

Summary of wetland habitat types intersected by the proposed ANGTS Route from the Yukon River to the Middle Fork of the Koyukuk River, Alaska.

Flight Line Number	LINEAR DISTANCE OF HABITAT TYPES INTERSECTED (Feet)							Gasline Distance ^a	Inclusive Milepost Numbers
	01-00	02-01	02-02	07-01	07-02	09-01	09-02		
19			1,900					93,456	360.2-342.5
18			600					38,016	342.5-335.3
17					1,650			163,680	335.3-304.3
16			3,425		750			124,608	304.3-280.7
15			8,950		1,450			85,008	280.7-264.6
14			9,000					63,888	264.6-253.7
13			9,625		450			123,552	253.7-230.3
TOTALS			33,500		4,300			692,208	360.2-230.3

^a Distances are inclusive within flight line boundaries.

Summary of wetland habitat types intersected by the proposed ANGTS Route from the Middle Fork of the Koyukuk River to Atigun Summit, Alaska.

Flight Line Number	LINEAR DISTANCE OF HABITAT TYPES INTERSECTED (Feet)							Gasline Distance ^a	Inclusive Milepost Numbers
	01-00	02-01	02-02	07-01	07-02	09-01	09-02		
12			8,350					45,408	230.3-221.7
11			14,350					52,272	221.7-211.8
10			850		23,350			110,352	211.8-190.9
9				8,000			12,200	98,208	190.9-172.3
8	3,100					17,150	200	104,544	172.3-152.5
TOTALS	3,100		23,550	8,000	23,350	17,150	12,400	410,784	230.3-152.5

Summary of wetland habitat types intersected by the proposed ANGTS Route from Atigun Summit to Prudhoe Bay, Alaska.

Flight Line Number	LINEAR DISTANCE OF HABITAT TYPES INTERSECTED (Feet)							Gasline Distance ^a	Inclusive Milepost Numbers
	01-00	02-01	02-02	07-01	07-02	09-01	09-02		
7	22,400					1,200		79,728	152.5-137.4
6				700				115,632	137.4-115.5
5			65,500		2,000		2,200	180,048	115.5-81.4
4		13,000	19,500				13,400	110,880	81.4-60.4
3	46,850					2,200	18,700	149,952	60.4-32.0
2	51,095							60,720	30.5-19.0
1A	70,875							71,280	19.0-5.5
1	13,175							29,040	5.5-0.0
TOTALS	204,395	13,000	85,000	700	2,000	3,400	34,300	797,280	152.5-0.0

^a Distances are inclusive within flight line boundaries.

Summary of wetland habitat types intersected by the proposed ANGTS Route from the Canadian border to Tetlin Junction, Alaska.

Flight Line Number	LINEAR DISTANCE OF HABITAT TYPE INTERSECTED (Feet)													
	19-01	20-01	21-00	22-01	22-02	22-03	23-11	23-12	23-13	23-20	24-11	24-12	24-13	24-20
37	1,200													
36		1,000												
35	1,000													
34	2,600	1,900												
TOTALS	4,800	2,900												

Flight Line Number										Gasline Distance ^a	Inclusive Milepost Numbers
	25-01	25-02	25-03	25-04	25-05	26-01	26-02	26-03			
37			15							13,200	739.9-737.4
36			285							308,880	737.4-678.9
35										46,992	678.9-670.0
34								650		34,320	670.0-663.5
TOTALS			300					650		403,392	663.5-739.9

^a Distances are inclusive within flight line boundaries.

Summary of wetland habitat types intersected by the proposed ANGTS Route from Tetlin Junction to Big Delta, Alaska.

Flight Line Number	LINEAR DISTANCE OF HABITAT TYPE INTERSECTED (Feet)													
	19-01	20-01	21-00	22-01	22-02	22-03	23-11	23-12	23-13	23-20	24-11	24-12	24-13	24-20
33	4,150	7,900			400		200							
32														
31					1,800									
30														
29					750									
28														
27		75												
TOTALS	4,150	7,975			2,950		200							

Flight Line Number										Gasline Distance ^a	Inclusive Milepost Numbers
	25-01	25-02	25-03	25-04	25-05	26-01	26-02	26-03			
33	655		165					50		186,384	663.5-628.2
32	90					1,200				71,808	628.2-614.6
31			45							61,776	614.6-602.9
30			175							82,896	602.9-587.2
29			15			1,050				44,880	587.2-578.7
28			60			750				166,320	578.7-547.2
27										38,016	547.2-540.0
TOTALS	745		460			3,000		50		652,080	663.5-540.0

^a Distances are inclusive within flight line boundaries.

Summary of wetland habitat types intersected by the proposed ANGTS Route from Big Delta to the Yukon River, Alaska.

Flight Line Number	LINEAR DISTANCE OF HABITAT TYPE INTERSECTED (Feet)													
	19-01	20-01	21-00	22-01	22-02	22-03	23-11	23-12	23-13	23-20	24-11	24-12	24-13	24-20
26	11,925	46,275												
25		350												
24	3,800	5,600			375			100						
23		850			2,250			500						
22	4,650	700												
21	3,125	850			100									
20														
TOTALS	23,500	54,625			2,725			600						

Flight Line Number										Gasline Distance ^a	Inclusive Milepost Numbers
	25-01	25-02	25-03	25-04	25-05	26-01	26-02	26-03			
26			200					900		128,304	540.0-515.7
25			195					125		98,208	515.7-497.1
24			375							98,208	497.1-478.5
23			150					150		141,504	478.5-451.7
22			165		30			125		125,664	451.7-427.9
21			180		180			325		233,376	427.9-383.7
20			15		255					124,080	383.7-360.2
TOTALS			1,280		465			1,625		949,344	540.0-360.2

^a Distances are inclusive within flight line boundaries.

Summary of wetland habitat types intersected by the proposed ANGTS Route from the Yukon River to the Middle Fork of the Koyukuk River, Alaska.

Flight Line Number	LINEAR DISTANCE OF HABITAT TYPE INTERSECTED (Feet)													
	19-01	20-01	21-00	22-01	22-02	22-03	23-11	23-12	23-13	23-20	24-11	24-12	24-13	24-20
19														
18	1,300													
17														
16	400							50						
15		200												
14		160												
13		1,280												
TOTALS	1,700	1,640						50						

Flight Line Number										Gasline Distance ^a	Inclusive Milepost Numbers
	25-01	25-02	25-03	25-04	25-05	26-01	26-02	26-03			
19			60		225			1,900		93,456	360.2-342.5
18			30		15					38,016	342.5-335.3
17			75		195					163,680	335.3-304.3
16			115		225			100		124,608	304.3-280.7
15			210		135			195		85,008	280.7-264.6
14			90					100		63,888	264.6-253.7
13	125		335		175	125				123,552	253.7-230.3
TOTALS	125		915		970	125		2,295		692,208	360.2-230.3

^a Distances are inclusive within flight line boundaries.

Summary of wetland habitat types intersected by the proposed ANGTS Route from the Middle Fork of the Koyukuk River to Atigun Summit, Alaska.

Flight Line Number	LINEAR DISTANCE OF HABITAT TYPE INTERSECTED (Feet)													
	19-01	20-01	21-00	22-01	22-02	22-03	23-11	23-12	23-13	23-20	24-11	24-12	24-13	24-20
12		2,500												
11		2,900			250									
10		6,300												
9		1,700												
8				4,150										
TOTALS		13,400		4,150	250									

Flight Line Number										Gasline Distance ^a	Inclusive Milepost Numbers
	25-01	25-02	25-03	25-04	25-05	26-01	26-02	26-03			
12			60		15	275				45,408	230.3-221.7
11			90		30	275				52,272	221.7-211.8
10			195		390	450				110,352	211.8-190.9
9					180	410				98,208	190.9-172.3
8					660	205	75			104,544	172.3-152.5
TOTALS			345		1,275	1,615	75			410,784	230.3-152.5

^a Distances are inclusive within flight line boundaries.

Summary of wetland habitat types intersected by the proposed ANGTS Route from Atigun Summit to Prudhoe Bay, Alaska.

Flight Line Number	LINEAR DISTANCE OF HABITAT TYPE INTERSECTED (Feet)													
	19-01	20-01	21-00	22-01	22-02	22-03	23-11	23-12	23-13	23-20	24-11	24-12	24-13	24-20
7		2,050		4,800	3,000									
6		2,600		1,900			275							
5				23,000	350									500
4				1,400					200	300				
3		75		7,350			300	200		700				
2				3,450						175				
1A				9,050	3,700				750	2,350				
1										325				
TOTALS		4,725		50,950	7,050		575	200	950	3,850				500

Flight Line Number	25-01	25-02	25-03	25-04	25-05	26-01	26-02	26-03	Gasline Distance ^a	Inclusive Milepost Numbers
7					1,205			375	79,728	152.5-137.4
6				165	385				115,632	137.4-115.5
5			205	90	90				180,048	115.5-81.4
4			135						110,880	81.4-60.4
3			210			80			149,952	60.4-32.0
2						2,000			60,720	30.5-19.0
1A			15						71,280	19.0-5.5
1			30			50			29,040	5.5-0.0
TOTALS			595	255	1,680	2,130		375	797,280	152.5-0.0

^a Distances are inclusive within flight line boundaries.

Table 1 - Summaries by Alignment Sheet of Wetland Distances
(in feet) Intersected by the Proposed ANGTS Route¹

<u>Alignment Sheet</u>	<u>Cover Type</u>	<u>Wetland Distance Intersected</u>	
001	01-00	29800	
	22-01	1500	
	26-01	<u>100</u>	
			Subtotal 31400
002	01-00	26545	
	22-01	937	
	23-20	375	
	25-03	<u>20</u>	
			Subtotal 27877
003	01-00	27250	
	22-01	2365	
	23-20	<u>750</u>	
			Subtotal 30365
004	01-00	23937 ²	
	22-01	1200	
	23-20	<u>60</u>	
			Subtotal 25197
005	01-00	25875	
	22-01	1470	
	25-03	<u>20</u>	
			Subtotal 27365
006	01-00	30625	
	22-01	<u>250</u>	
			Subtotal 30875

¹Taken from November 1980 Alignment Sheets

²Haul Road Related

007	01-00	26964	
	22-01	3875	
	23-20	187	
	25-03	<u>40</u>	
			Subtotal 31066
008	01-00	<u>28500</u>	
			Subtotal 28500
009	01-00	<u>30025</u>	
			Subtotal 30025
010	01-00	22187	
	22-01	560 ²	
	23-20	<u>62²</u>	
			Subtotal 22809
011	01-00	30375	
	22-01	<u>375²</u>	
			Subtotal 30750
012	01-00	1310	
	02-01	8315	
	02-02	12500	
	07-02	130	
	25-03	90	
	25-05	<u>20</u>	
			Subtotal 22365
013	02-02 ²	30425	
	23-13 ²	250	
	25-03	<u>200</u>	
			Subtotal 30875
014	02-02	5250	
	09-02	1060	
	25-03	<u>40</u>	
			Subtotal 6350
015	02-02	16452	
	07-02	30	
	09-02	125	
	20-01	1187	
	25-03	<u>100</u>	
			Subtotal 17894
016	02-02	30550	
	25-03	<u>100</u>	
			Subtotal 30650

421362

017	02-02	23225	
	09-02	187	
	25-03	50	
	25-04	50	
	25-05	<u>50</u>	
			Subtotal 23562
018	02-02	1705	
	07-02	375	
	09-02	875	
	22-01	812	
	25-03	90	
	25-04	<u>30</u>	
			Subtotal 3887
019	02-02	11975	
	25-04	90	
	25-05	<u>60</u>	
			Subtotal 12125
020	02-02	26312	
	09-02	90	
	22-02	<u>250</u>	
			Subtotal 26652
021	02-02	26375	
	22-01	792	
	25-03	<u>20</u>	
			Subtotal 27187
022	02-02	14190	
	22-01	120	
	25-05	<u>80</u>	
			Subtotal 14390
023	02-02	18652	
	09-01	1345	
	22-01	250	
	22-02	812	
	25-04	120	
	25-05	<u>20</u>	
			Subtotal 21199
024	02-02	687	
	25-03	50	
	26-03	<u>62</u>	
			Subtotal 799
025	02-02	26255	
	25-05	<u>160</u>	
			Subtotal 26415

586519

026	01-00	2187	
	02-02	19470	
	22-01	2140	
	25-05	<u>100</u>	
			Subtotal 23897
027	01-00	12823	
	09-01	2000	
	25-03	100	
	25-05	290	
	26-03	<u>400</u>	
			Subtotal 15613
028	01-00	500	
	09-01	1655	
	25-05	220	
	26-01	<u>62</u>	
			Subtotal 2437
029	09-01	1260	
	09-02	562	
	25-05	<u>40</u>	
			Subtotal 1862
030	09-01	4437	
	25-05	<u>140</u>	
			Subtotal 4577
031 (Road Route)	09-02	187	
	25-05	<u>180</u>	
			Subtotal 367
032 (Road Route)	07-02	1440	
	09-02	1375	
	25-05	300	
	26-01	<u>1000</u>	
			Subtotal 4115
031 (Tunnel Route)	09-02	750	
	26-01	<u>50</u>	
			Subtotal 800
032 (Tunnel Route)	07-02	1440	
	09-02	1500	
	25-05	300	
	26-01	<u>1050</u>	
			Subtotal 4290
033	20-01	125	
	23-11	125 ²	
	25-05	100	
	26-01	<u>2587</u>	
			Subtotal 2937

63688

034	07-02	4630	
	20-01	680	
	25-05	<u>210</u>	
			Subtotal 5520
035	07-02	6687	
	09-02	30	
	25-05	<u>70</u>	
			Subtotal 6787
036	07-02	400	
	25-05	<u>70</u>	
			Subtotal 470
037	20-01	500	
	25-01	<u>62</u>	
			Subtotal 562
038	02-02	572	
	07-02	875	
	20-01	1627	
	26-01	<u>214</u>	
			Subtotal 3288
039	02-02	13375	
	25-05	<u>100</u>	
			Subtotal 13475
040	02-02	6750	
	20-01	2524	
	25-05	70	
	26-01	<u>125</u>	
			Subtotal 9469
041	02-02	1370	
	07-02	312	
	23-20	375	
	25-01	62	
	26-01	<u>340</u>	
			Subtotal 2459
042	02-02	<u>2487</u>	
			Subtotal 2487
043	02-02	2282	
	20-01	250	
	25-03	<u>180</u>	
			Subtotal 2712
044	02-02	3262	
	07-02	220	
	25-03	<u>20</u>	
			Subtotal 3502

62 115

045	02-02	3806	
	20-01	845	
	24-11	156	
	25-03	<u>240</u>	
			Subtotal 5047
046	02-02	875	
	07-02	62	
	20-01	850	
	25-05	<u>30</u>	
			Subtotal 1817
047	02-02	16462	
	25-05	100	
	26-03	<u>125</u>	
			Subtotal 16687
048	25-03	200	
	26-03	<u>120</u>	
			Subtotal 320
049	02-02	250	
	25-03	200	
	25-05	<u>100</u>	
			Subtotal 550
050	02-02	375	
	07-02	750	
	25-05	600	
	26-03	<u>62</u>	
			Subtotal 1787
051	02-02	1094	
	07-02	417	
	23-20	62	
	25-03	350	
	25-05	70	
	26-03	<u>62</u>	
			Subtotal 2055
052	02-02	250	
	25-03	50	
	25-05	50	
	26-03	<u>62</u>	
			Subtotal 412
053	02-02	40	
	07-02	250	
	25-03	100	
	25-05	<u>70</u>	
			Subtotal 460
054	25-05	<u>100</u>	
			Subtotal 100

711250

055	07-02	850	
	25-05	<u>200</u>	Subtotal 1050
056	25-05	<u>250</u>	Subtotal 250
057	25-03	50	
	25-05	<u>250</u>	Subtotal 300
058	07-02	260	
	25-05	<u>90</u>	Subtotal 350
059	25-05	<u>100</u>	Subtotal 100
060	02-02	1562	
	19-01	1780	
	25-05	<u>50</u>	Subtotal 3392
061	02-02	312	
	19-01	315	
	20-01	750	
	25-03	150	
	25-05	<u>50</u>	Subtotal 1577
062	25-05	<u>300</u>	Subtotal 300
063	25-03	100	
	25-05	<u>200</u>	Subtotal 300
064	02-02	1387	
	25-03	50	
	26-03	<u>1812</u>	Subtotal 3249
065	25-05	<u>150</u>	Subtotal 150
066	25-05	<u>150</u>	Subtotal 150
067	07-02	120	
	25-05	<u>220</u>	Subtotal 340

727808

068	02-02	350		
	19-01	525		
	20-01	125		
	25-03	150		
	25-05	100		
	26-03	<u>62</u>		
			Subtotal	1312
069	02-02	687		
	25-03	50		
	25-05	<u>100</u>		
			Subtotal	837
070	25-05	<u>100</u>		
			Subtotal	100
071	25-05	<u>50</u>		
			Subtotal	50
072	25-05	<u>50</u>		
			Subtotal	50
073	02-02	750		
	19-01	2300		
	20-01	120		
	25-05	<u>400</u>		
			Subtotal	3570
074	25-03	<u>50</u>		
			Subtotal	50
075	25-03	50		
	25-05	<u>50</u>		
			Subtotal	100
076	25-05	<u>250</u>		
			Subtotal	250
077	No Wetlands Observed			
078	25-03	50		
	25-05	<u>150</u>		
			Subtotal	200
079	02-02	2712		
	19-01	2000		
	20-01	798		
	25-03	250		
	26-03	<u>62</u>		
			Subtotal	5822
080	25-03	<u>50</u>		
			Subtotal	50

740249

081	25-03	<u>200</u>	Subtotal	200
082	25-03	<u>150</u>	Subtotal	150
083	19-01	2372		
	20-01	2440		
	22-01	125		
	25-03	<u>460</u>	Subtotal	5397
084	07-02	30		
	19-01	1183		
	20-01	307		
	22-02	375		
	26-03	<u>286</u>	Subtotal	2181
085	02-02	375		
	19-01	5010		
	20-01	3013		
	22-02	584		
	25-03	<u>50</u>	Subtotal	9032
086	19-01	1596		
	20-01	1058		
	22-02	655		
	25-03	<u>300</u>	Subtotal	3609
087	19-01	438		
	22-02	312		
	25-03	<u>150</u>	Subtotal	900
088	25-03	<u>300</u>	Subtotal	300
089	02-02	780		
	20-01	93		
	25-03	100		
	25-05	100		
	26-03	<u>156</u>	Subtotal	1229
090	02-02	3092		
	20-01	1000		
	25-03	<u>150</u>	Subtotal	4242

767481

091	07-02	968	
	25-03	220	
	25-05	<u>40</u>	
			Subtotal 1228
092	07-02	125	
	25-05	<u>320</u>	
			Subtotal 445
093	02-02	1299	
	20-01	1750	
	25-03	<u>100</u>	
			Subtotal 3149
094	19-01	5999	
	20-01	21250	
	22-02	<u>850</u>	
			Subtotal 28099
095	19-01	2375	
	20-01	8436	
	26-03	<u>125</u>	
			Subtotal 10936
096	26-03	<u>625</u>	
			Subtotal 625
097	20-01	<u>500</u>	
			Subtotal 500
098	No Wetlands Observed		
099	25-03	<u>50</u>	
			Subtotal 50
100	25-03	<u>50</u>	
			Subtotal 50
101	No Wetlands Observed		
102	09-02	960	
	26-01	<u>750</u>	
			Subtotal 1710
103	25-03	150	
	26-01	<u>125</u>	
			Subtotal 275

214556

104	19-01	250		
	22-02	562		
	23-12	350		
	23-13	120		
	26-01	<u>750</u>		
			Subtotal	2032
105	20-01	250		
	25-03	<u>50</u>		
			Subtotal	300
106	25-03	100		
	25-05	<u>162</u>		
			Subtotal	262
107	25-03	<u>50</u>		
			Subtotal	50
108	20-01	2630		
	25-03	<u>100</u>		
			Subtotal	2730
109	02-02	448		
	25-03	<u>50</u>		
			Subtotal	498
110	02-02	1125		
	23-11	62		
	26-01	<u>1062</u>		
			Subtotal	2249
111	25-01	<u>300</u>		
			Subtotal	300
112	25-01	591		
	25-05	<u>50</u>		
			Subtotal	641
113	25-01	175		
	25-05	<u>250</u>		
			Subtotal	425
114	20-01	5625		
	23-13	500		
	23-20	1312		
	25-03	<u>50</u>		
			Subtotal	7487
115	No Wetlands Observed			
116	19-01	<u>1000</u>		
			Subtotal	1000

852530

117	19-01	750	
	20-01	625	
	25-03	<u>150</u>	
			Subtotal 1525
118	19-01	1375	
	20-01	1845	
	25-03	<u>562</u>	
			Subtotal 3782
119	No Wetlands Observed		
120	No Wetlands Observed		
121	25-03	<u>100</u>	
			Subtotal 100
122	25-03	<u>50</u>	
			Subtotal 50
123	25-03	50	
	25-05	<u>50</u>	
			Subtotal 100
124	25-03	<u>150</u>	
			Subtotal 150
125	25-03	150	
	25-05	<u>50</u>	
			Subtotal 200
126	02-02	2500	
	07-02	250	
	25-03	<u>20</u>	
			Subtotal 2770
127	02-02	3125	
	25-03	<u>50</u>	
			Subtotal 3175
128	02-02	9793	
	23-11	500	
	25-03	<u>50</u>	
			Subtotal 10343
129	02-02	9992	
	07-02	250	
	25-03	<u>220</u>	
			Subtotal 10462

865087

130

02-02	1875
20-01	7500
23-13	250
25-03	<u>50</u>

Subtotal 9675

131

02-02	2000
19-01	562
20-01	7188
25-03	100
25-05	<u>100</u>

Subtotal 9950

Total

Road

Route 884812

Tunnel

Route 885472

Table 2 - Summary of Unvegetated Floodplain (Type 15-00)

Distances (in feet) Intersected by the Proposed ANGTS Route

<u>Alignment Sheet</u>	<u>Intersected Distance</u>
001	167
030	1470
031 ¹	970
031 ²	62
033	2300
034	640
037	31
038	818
041	2086
047	250
089	250
110	<u>375</u>
TOTAL	9419

¹Road Route
²Tunnel Route

Table 3. Wetland Distances (in feet) Intersected by the Proposed ANGTS Route Summerized by Wetland Habitat Type.

01-00		02-02		02-02 (cont'd)		07-02		09-01		09-02	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
001	29800	012	12500	079	2712	012	130	023	1345	014	1060
001	26545	013	30425	085	375	015	30	027	2000	015	125
003	27250	014	5250	089	780	018	375	028	1655	017	187
004	23937	015	16452	090	3029	032 ⁽²⁾	1440	029	1260	018	875
005	25875	016	30550	093	1299	034	4630	030	4437	020	90
006	30625	017	23225	109	448	035	6687	073	2300	029	562
007	26964	018	1705	110	1125	036	400	084	1183	031 ⁽²⁾	187
008	28500	019	11975	126	2500	038	875		14180	032 ⁽²⁾	1375
009	30025	020	26312	127	3125	041	312			035	30
010	22187	021	26375	128	9793	044	220			102	960
011	30375	022	14190	129	9992	046	62			Road Route	5451
012	1310	023	18652	130	1875	050	750				
026	2187	024	687	131	2000	051	417			031 ⁽³⁾	750
027	12823	025	26255		361437	053	250			032 ⁽³⁾	1500
028	500	026	19470			055	850			Tunnel Route	6139
	318903	038	572			058	260				
		039	13375			067	120				
		040	6750			084	30				
		041	1370			091	968				
		042	2487			092	125				
		043	2282			126	250				
		044	3262			129	250				
		045	3806			Road Route	19431				
		046	875								
		047	16462			032 ⁽³⁾	1440				
		049	250			Tunnel Route	19431				
		050	375								
		051	1094								
		052	250								
		053	40								
		060	1562								
		061	312								
		064	1387								
		068	350								
		069	687								
		073	750								
02-01											
Alignment Sheet Number	Wetland Distance Intersected										
012	8315										
	8315										

(1) Haul Road Related
(2) Road Route
(3) Tunnel Route

15-00		19-01		20-01		22-01		22-02		23-11	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
001	167	060	1780	015	1187	001	1500	020	250	033	125
030	1470	061	315	023	250	002	937	023	812	110	62
031(2)	970	068	525	033	125	003	2365	084	375	128	500
033	2300	079	2000	034	680	004	1200	085	584		687
034	640	083	2372	037	500	005	1470	086	655		
037	31	085	5010	038	1627	006	250	087	312		
038	818	086	1596	040	2524	007	3875	094	850		
041	2086	087	438	043	250	010	560	104	562		
047	250	094	5999	045	845	011	375		4400		
089	250	095	2375	046	850	018	812				
110	375	104	250	061	750	021	792				
Road		116	1000	068	125	022	120			Alignment Sheet Number	Wetland Distance Intersected
Route	9357	117	750	073	120	026	2140				
		118	1375	079	798	083	125				
031(3)	60	131	562	083	2440		16521			104	350
Tunnel			26347	084	307						350
Route	8447			085	3013						
				086	1058						
				089	93						
				090	1000						
				093	1750						
				094	21250						
				095	8436						
				097	500						
				105	250						
				108	2630						
				114	5625						
				117	625						
				118	1845						
				130	7500						
				131	7188						
					76141						

23-13		23-20		24-11		25-01		25-03		25-03 (cont'd)	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
013	250 ⁽¹⁾	002	375	045	156	037	62	002	20	086	300
104	120	003	750		156	041	62	005	20	087	150
114	500	004	60			111	300	007	40	088	300
130	250	007	187			112	591	012	90	089	100
	<u>1120</u>	010	62			113	175	013	200	090	150
		041	375				<u>1190</u>	014	40	091	220
		051	62					015	100	093	100
		114	1312					016	100	099	50
			<u>3183</u>					017	50	100	50
								018	90	103	150
								021	20	105	50
								024	50	106	100
								027	100	107	50
								043	180	108	100
								044	20	109	50
								045	240	114	50
								048	200	117	150
								049	200	121	100
								051	350	122	50
								052	50	123	50
								053	100	124	150
								057	50	125	150
								061	150	126	20
								063	100	127	50
								064	50	128	50
								068	150	129	220
								069	50	130	50
								074	50	131	100
								075	50		<u>7230</u>
								078	50		
								079	250		
								080	50		
								081	200		
								082	150		
								083	460		
								085	50		

25-04

25-05

25-05 (cont'd)

26-01

26-03

Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
017	50	012	20	063	200	001	100	024	62
018	30	017	50	065	150	028	62	027	400
019	90	019	60	066	150	032 ⁽²⁾	1000	047	125
023	120	022	80	067	220	033	2587	048	120
	290	023	20	068	100	038	214	050	62
		025	160	069	100	040	125	051	62
		026	100	070	100	041	340	052	62
		027	290	071	50	102	750	064	1812
		028	220	072	50	103	125	068	62
		029	40	073	400	104	750	079	62
		030	140	075	50	110	1062	084	286
		031 ⁽²⁾	180	076	250	Road		089	156
		032 ⁽²⁾	300	078	150	Route	7115	095	125
		033	100	089	100			096	625
		034	210	091	40	031 ⁽³⁾	50	118	562
		035	70	092	320	032 ⁽³⁾	1050		4583
		036	70	106	162	Tunnel			
		039	100	112	50	Route	7215		
		040	70	113	250				
		046	30	123	50				
		047	100	125	50				
		049	100	131	100				
		050	600	Road					
		051	70	Route	7782				
		052	50						
		053	70	032 ⁽³⁾	300				
		054	100	Tunnel					
		055	200	Route	7602				
		056	250						
		057	250						
		058	90						
		059	100						
		060	50						
		061	50						
		062	300						

Total	
Road Route	894169
Tunnel Route	893867

No. _____

Name _____

Order _____

Remarks _____

Retouched _____

Order Finished _____

Recorder _____

Recorder _____

No. _____

Name _____

Order _____

Remarks _____

Retouches _____

Order finished _____

Recorder _____

Recorder _____

B&W negative for
Fig 4. page 14

B&W #1

Use for only
one type of film

Read this notice: The return of any film or print to us for processing or any other purpose, constitutes an agreement by you that if any such film or print is damaged or lost by us it will be replaced with an equivalent amount of unexposed film and processing. Except for such replacement, the handling of such film or prints by us is without warranty or liability even though damage or loss is caused by negligence or other fault.

3759

NAME Markon STORE NO. 5208

ADDRESS Fiske & Wildlife DATE _____

CHECK FILM ☒ BLACK AND WHITE ☐ KODACOLOR Film ☐ KODACHROME Film ☐ EKTACHROME Film ☐ OTHER ☐ COLOR PRINT FROM SLIDE ☐

DEVELOP AND PRINT ORDERS

FILM SIZE _____

NO. OF ROLLS _____

NO. OF PRINTS FROM EACH NEG. _____

REPRINT ORDERS

NO. OF NEGATIVES OR SLIDES LOBIS

NO. OF PRINTS FROM EACH SLIDE OR NEG. _____

ENLARGEMENT SIZE _____

DUPLICATE COLOR SLIDES _____

INSTRUCTIONS	PRINTS MADE	PRICE
<u>1 color neg</u>		DEV. <u>1.00</u>
<u>1 color SX7</u>		PRINT <u>0.50</u>
<u>as cropped on paper</u>		TOTAL <u>1.50</u>
		TAX _____
		TOTAL <u>1.50</u>

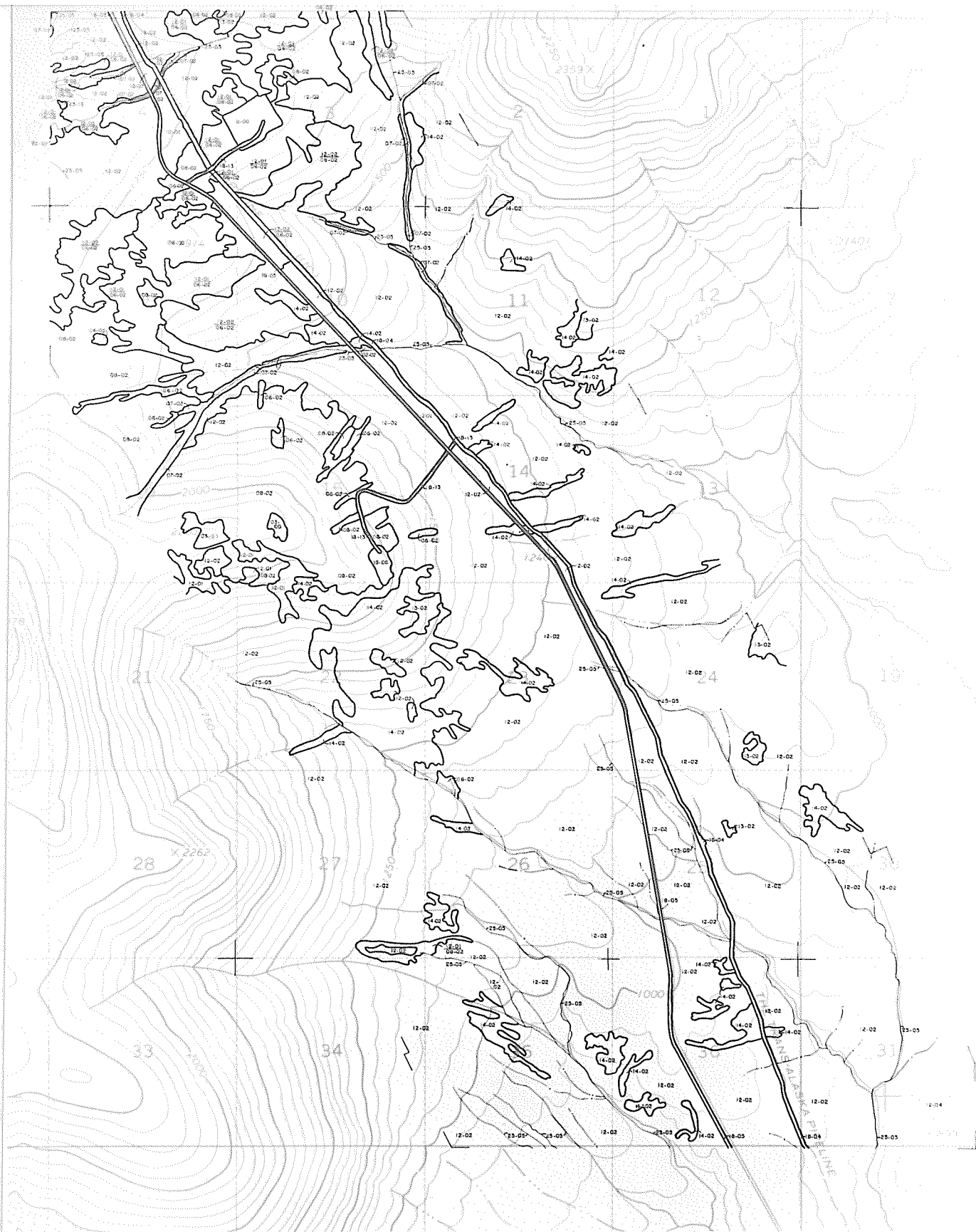
CASTLETON'S CUSTOM PROCESSING

3340 Mt. View Drive
Anchorage, AK 99501
274-3017 or 274-4368

5.9

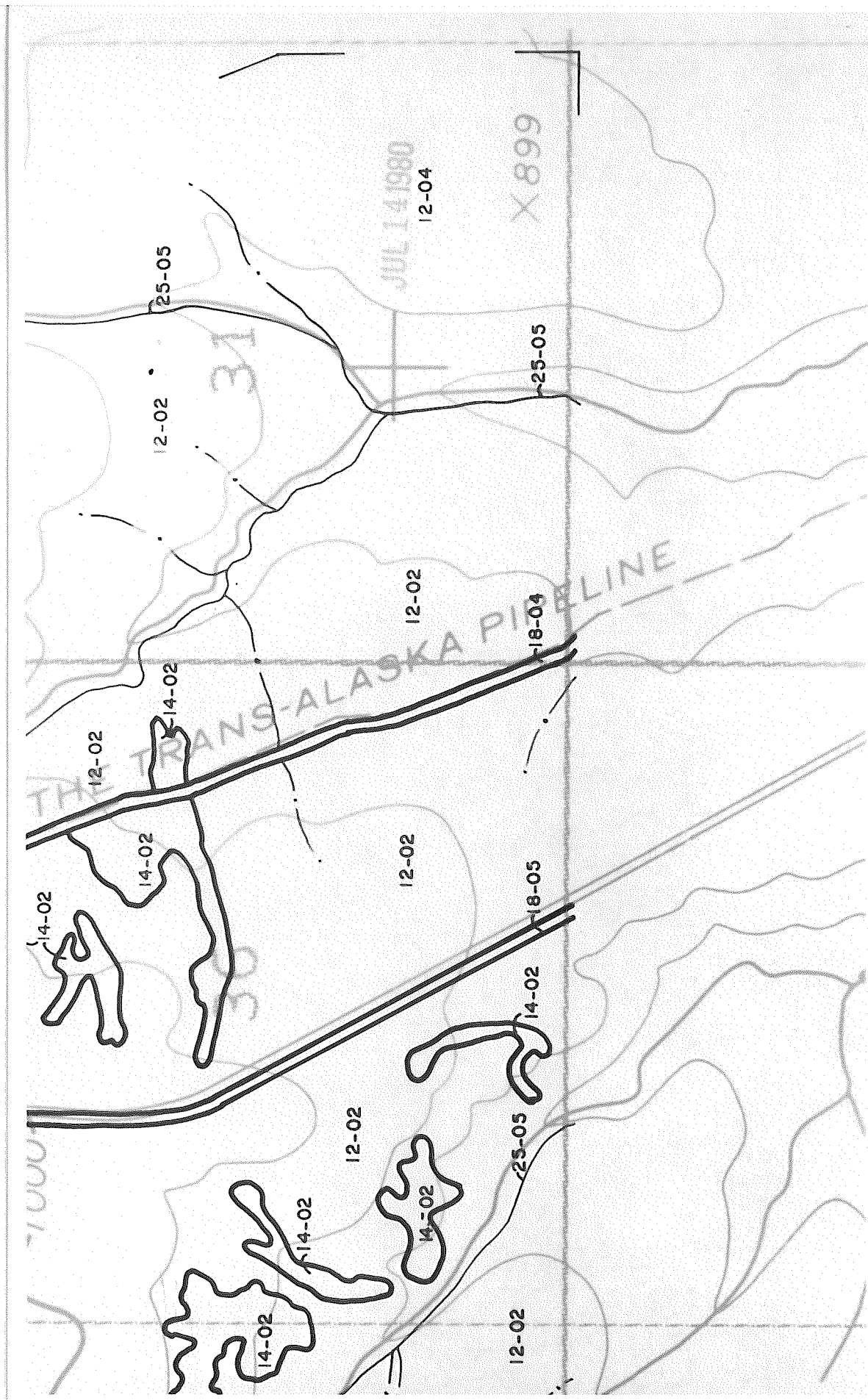




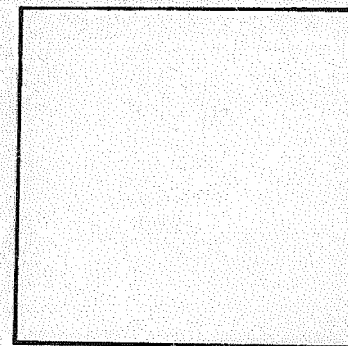


128A

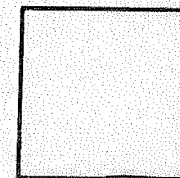
BETTES
A-1 N 2



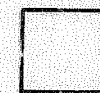
BETTLES
A-1 N° 2



640



160



40



10



2.5



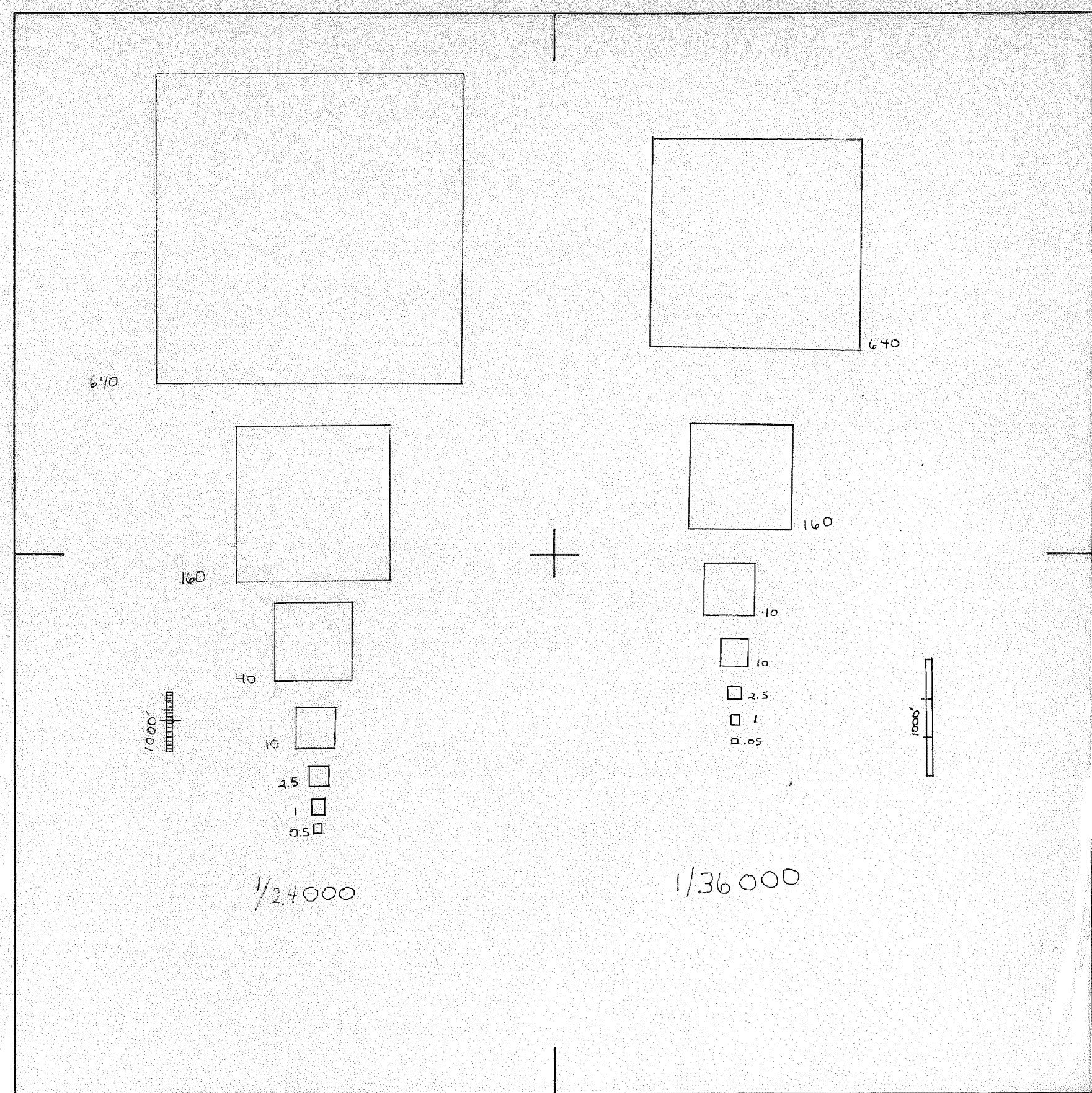
1

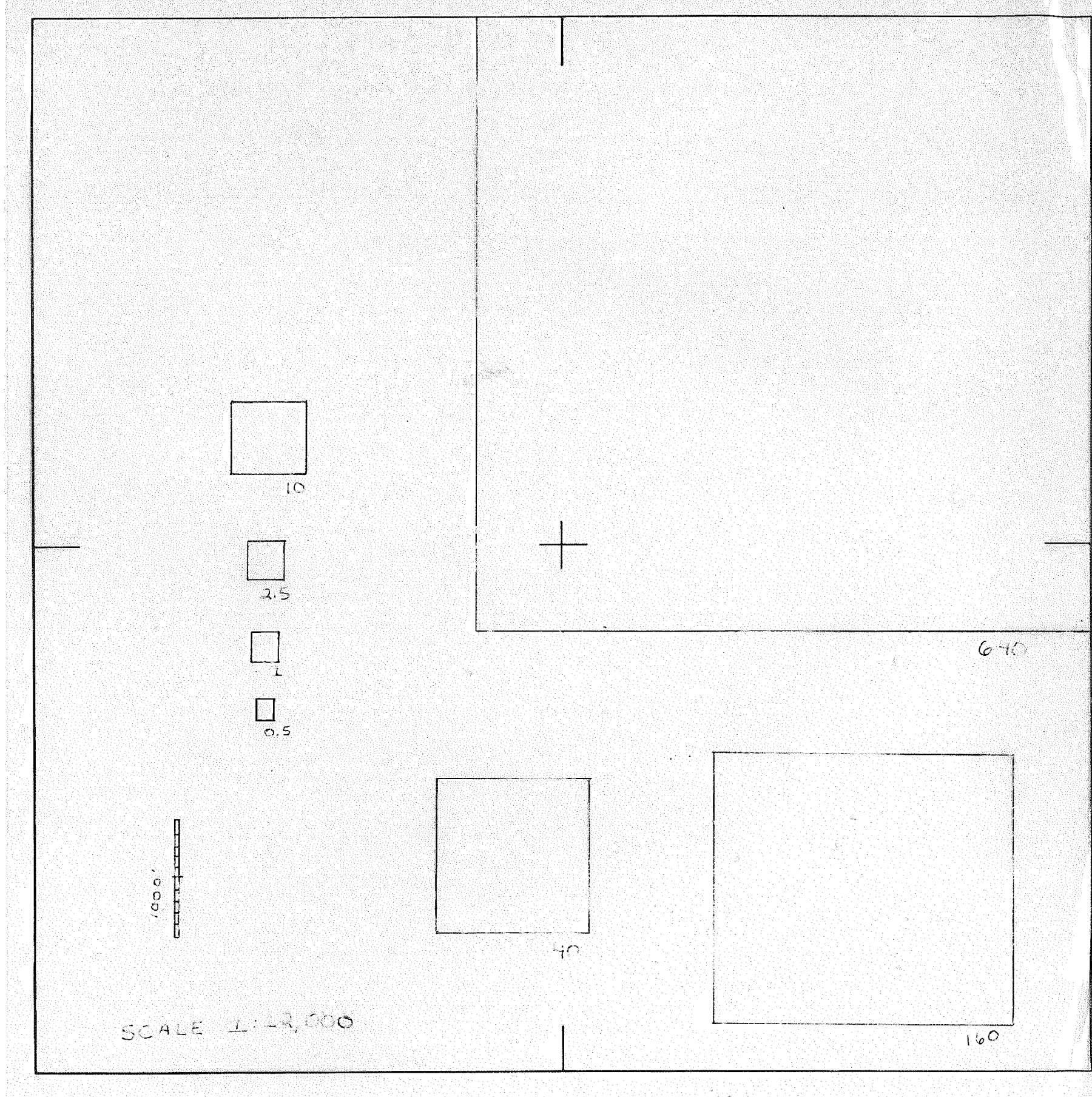


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of 19801121-2.

GAS PIPELINE HABITAT EVALUATION PROGRAM CROSS-REFERENCE OF
HABITAT MAPS, AERIAL PHOTOGRAPHS AND PIPELINE ALIGNMENT SHEETS

No.	Map Name	Photo No.*	Photo No.*	Photo No.*	Photo No.*	Alignment Sheet No.**		
1.	Nabesna	C1-9 AB	37002	-	-	-	131	-
2.	Nabesna	C1-6 AB	36002	37002	37003	-	131	130
			37004	-	-	-	-	-
3.	Nabesna	C1-3 AB	36002	36004	-	-	130	129
4.	Nabesna	C1-2 AB	36006	-	-	-	129	-
5.	Nabesna	D1-9 AB	36006	-	-	-	129	-
6.	Nabesna	D1-8 AB	36006	36008	36010	-	129	128
7.	Nabesna	D1-7 AB	36008	36010	36012	-	128	-
8.	Nabesna	D1-4 AB	36010	36012	-	-	127	128
9.	Nabesna	D2-6 AB	36010	36012	-	-	126	127
10.	Nabesna	D2-3 AB	36014	36016	-	-	126	125
11.	Nabesna	D2-2 AB	36016	36018	-	-	125	-
12.	-	-	-	-	-	-	-	-
13.	Tanacross	A2-8 AB	36018	36020	36022	-	124	125
14.	Tanacross	A2-7 AB	36018	36020	36022	-	124	-
15.	Tanacross	A2-4 AB	36022	-	-	-	123	-
16.	-	-	-	-	-	-	-	-
17.	Tanacross	A3-6 AB	36022	36024	-	-	122	123
18.	Tanacross	A3-3 AB	36024	36026	34028	-	121	122
19.	Tanacross	A3-2 AB	36026	36028	35003	-	120	121
20.	Tanacross	A4-3 CD	35003	-	-	-	-	-
20.	Tanacross	A3-1 AB	35003	35005	-	-	119	120
21.	Tanacross	B3-8 AB	35003	36028	-	-	119	120
22.	Tanacross	B3-7 AB	35005	35007	-	-	119	-
23.	Tanacross	B4-9 AB	34003	34004	35005	-	118	119
24.	Tanacross	B4-8 AB	34004	33003	35005	-	117	118
25.	Tanacross	B4-6 CD	34003	34004	35005	-	118	-
25.	Tanacross	B4-7 AB	33005	33007	-	-	116	117
26.	Tanacross	B4-5 AB	34004	33003	-	-	117	-
27.	Tanacross	B4-4 AB	33005	33007	-	-	116	117
28.	Tanacross	B5-9 AB	33006	33007	-	-	116	115
29.	Tanacross	B5-6 AB	33007	33009	-	-	116	115
30.	Tanacross	B5-5 AB	33011	33013	-	-	114	115
31.	Tanacross	B5-4 AB	33013	33014	33015	-	113	114
32.	Tanacross	B6-6 AB	33015	33017	33018	-	112	113
33.	Tanacross	B6-5 AB	33018	33019	-	-	112	-
34.	Tanacross	B6-4 AB	33010	33020	-	-	111	112
35.	Tanacross	B6-2 AB	33020	32003	32004	32006	111	110
			32006	-	-	-	-	-
36.	Tanacross	B6-1 AB	32005	-	-	-	110	111
37.	Tanacross	C6-8 AB	32006	32007	32008	-	110	109
38.	Tanacross	C6-7 AB	32007	-	-	-	110	-
39.	-	-	-	-	-	-	-	-

GAS PIPELINE HABITAT EVALUATION PROGRAM CROSS-REFERENCE OF
HABITAT MAPS, AERIAL PHOTOGRAPHS AND PIPELINE ALIGNMENT SHEETS

No.	Map Name		Photo No.*	Photo No.*	Photo No.*	Photo No.*	Alignment Sheet No.**		
40.	Tanacross	C6-4 AB	31004	31006	-	-	109	108	-
41.	Mt. Hayes	C1-6 AB	31006	31007	31008	-	108	-	-
42.	Mt. Hayes	C1-3-AB	30003	31007	31008	-	107	108	-
43.	Mt. Hayes	C1-2 AB	30003	30004	30005	-	107	106	-
44.	Mt. Hayes	C1-1 AB	30005	30006	30007	30008	106	105	-
45.	Mt. Hayes	C2-3 AB	30008	30009	30010	29003	105	104	-
			29004	-	-	-	-	-	-
46.	Mt. Hayes	C2-2 AB	29003	29004	30010	-	104	-	-
47.	Mt. Hayes	D2-9 AB	29004	28002	-	-	-	-	-
47.	Mt. Hayes	D2-8 CD	29004	28002	-	-	103	104	-
48.	Mt. Hayes	D2-7 AB	28002	28003	28005	28007	103	102	-
49.	Mt. Hayes	D3-9 AB	28007	28009	-	-	102	-	-
50.	Mt. Hayes	D2-4 AB	28005	-	-	-	102	-	-
51.	Mt. Hayes	D3-6 AB	28007	28009	-	-	101	102	-
52.	Mt. Hayes	D3-5 AB	28009	28010	28011	-	100	101	-
52.	Mt. Hayes	D3-4 CD	28011	-	-	-	-	-	-
53.	Mt. Hayes	D3-2 AB	28013	28011	-	-	100	-	-
54.	Mt. Hayes	D3-1 AB	28011	28013	28015	-	099	100	-
55.	Mt. Hayes	D4-3 AB	28015	-	-	-	098	099	-
56.	Mt. Hayes	D4-2 AB	28018	-	-	-	-	-	-
57.	Big Delta	A4-9 AB	28017	28018	28019	-	098	097	-
58.	Big Delta	A4-8 AB	28019	27003	-	-	097	-	-
59.	Big Delta	A4-5 AB	27005	27007	27003	-	097	096	-
60.	Big Delta	A4-4 AB	26003	26005	27005	-	095	096	-
61.	Big Delta	A4-1 AB	26005	26007	26008	26009	095	094	-
62.	Big Delta	A5-3 AB	26008	26009	-	-	094	-	-
63.	Big Delta	B4-7 AB	26009	26011	-	-	-	-	-
64.	Big Delta	B5-9 AB	26009	26011	26013	-	093	094	-
65.	Big Delta	B5-8 AB	26013	26015	-	-	093	094	-
66.	Big Delta	B5-6 AB	26015	26016	26017	26018	092	-	-
67.	Big Delta	B5-4 AB	26020	-	-	-	091	-	-
68.	Big Delta	B5-5 AB	26018	26019	25004	-	091	092	-
69.	Big Delta	B5-2 AB	26019	25004	-	-	091	-	-
70.	Big Delta	B5-1 AB	25004	25006	25008	-	090	091	-
71.	Big Delta	B6-3 AB	25012	25010	25009	25008	089	090	-
72.	Big Delta	B6-2 AB	25010	25012	-	-	090	-	-
73.	-	-	-	-	-	-	-	-	-
74.	Big Delta	C6-8 AB	25012	25014	24002	-	089	-	-
75.	Big Delta	C6-7 AB	24002	24004	24006	-	087	088	-
76.	Big Delta	C6-4 AB	24006	24008	24010	-	086	087	-

GAS PIPELINE HABITAT EVALUATION PROGRAM CROSS-REFERENCE OF
HABITAT MAPS, AERIAL PHOTOGRAPHS AND PIPELINE ALIGNMENT SHEETS

No.	Map Name		Photo No.*	Photo No.*	Photo No.*	Photo No.*	Alignment Sheet No.**		
77.	Fairbanks	C1-6 AB	24012	24010	24008	-	086	-	-
78.	Fairbanks	C1-3 AB	24012	24013	23002	-	085	086	-
79.	Fairbanks	C1-2 AB	23004	23002	-	-	084	085	-
80.	Fairbanks	D1-9 AB	24016	-	-	-	-	-	-
81.	Fairbanks	D1-8 AB	24016	23004	23006	-	083	084	-
82.	Fairbanks	D1-7 AB	23006	23008	23010	-	083	-	-
83.	Fairbanks	D1-4 AB	23010	23012	23014	-	082	083	-
84.	Fairbanks	D2-6 AB	23014	23012	-	-	081	082	-
85.	Fairbanks	D2-3 AB	23014	23016	23017	23018	081	082	083
86.	Fairbanks	D2-2 AB	23018	23019	23020	22002	080	-	-
87.	-	-	-	-	-	-	-	-	-
88.	Livengood	A2-8 AB	22002 22007	22003 -	22004 -	22005 -	079 -	080 -	- -
89.	Livengood	A2-7 AB	22005	22007	22008	-	079	078	-
90.	Livengood	A2-4 AB	22007	22008 22011	22009 22012	22010 -	077 -	078 -	- -
91.	Livengood	A3-6 AB	22012	22013	-	-	077	-	-
92.	Livengood	A2-1 AB	22012	22013	-	-	-	-	-
93.	Livengood	A3-3 AB	22013 22017	22014 21002	22015 -	22016 -	076 -	077 -	- -
94.	Livengood	A3-2 AB	21002	21003	-	-	076	-	-
95.	Livengood	B3-9 AB	21002	21003	21004	-	075	-	-
96.	Livengood	B3-8 AB	21003	21003	21006	21008	075	074	-
97.	Livengood	B3-7 AB	21008	21006	-	-	074	-	-
98.	Livengood	B3-5 AB	21008	21010	-	-	074	-	-
99.	Livengood	B3-4 AB	21008	21010	21012	-	074	073	-
100.	Livengood	B4-6 AB	21012	21014	-	-	-	-	-
101.	Livengood	B3-1 AB	21012	21014	-	-	073	-	-
102.	Livengood	B4-3 AB	21014	21015	21017	-	072	-	-
103.	Livengood	B4-2 AB	21019	21017	-	-	071	-	-
104.	Livengood	C4-9 AB	21019	21021	-	-	071	-	-
105.	Livengood	C4-8 AB	21021	21023	21024	-	071	070	-
106.	Livengood	C4-7 AB	21024	21026	-	-	070	-	-
107.	Livengood	C4-4 AB	21026	21027	21018	21029	069	070	-
108.	Livengood	C5-6 AB	21028	21029	21030	21032	068	069	-
109.	Livengood	C5-3 AB	21030	21032	20002	20004	068	-	-
110.	Livengood	C5-2 AB	20002	20004	20006	20007	067	068	-
111.	Livengood	C5-1 AB	20007	20009	-	-	067	-	-
112.	Livengood	D5-8 AB	20006	20007	20009	-	067	-	-
113.	Livengood	D5-7 AB	20009 20013	20010 -	20011 -	20012 -	066 -	067 -	- -

GAS PIPELINE HABITAT EVALUATION PROGRAM CROSS-REFERENCE OF
HABITAT MAPS, AERIAL PHOTOGRAPHS AND PIPELINE ALIGNMENT SHEETS

No.	Map Name		Photo No.*	Photo No.*	Photo No.*	Photo No.*	Alignment Sheet No.**		
114.	Livengood	D6-9 AB	20012 20017	20013 -	20014 -	20015 -	065 -	066 -	- -
115.	-	-	-	-	-	-	-	-	-
116.	Livengood	D6-6 AB	20014 20019	20015 19002	20017 -	20018 -	064 -	065 -	- -
117.	Livengood	D6-5 AB	20017 19005	20019 -	19002 -	19003 -	064 -	- -	- -
118.	Livengood	D6-4 AB	19005	-	-	-	-	-	-
119.	Livengood	D6-2 AB	19003	19005	19007	-	063	-	-
120.	Livengood	D6-1 AB	19005	19007	19009	19011	062	063	-
121.	Tanana	D1-3 AB	19009	19011	19012	-	063	-	-
122.	Beaver	A6-7 AB	19012	19011	18002	-	-	-	-
123.	Bettles	A1-9 AB	18002	18003	-	-	060	061	-
124.	Bettles	A1-8 AB	18003	18003	-	-	-	-	-
125.	Bettles	A1-6 AB	18004	18005	18006	17002	059	060	-
126.	Bettles	A1-5 AB	17002	17003	17005	-	059	060	-
127.	-	-	-	-	-	-	-	-	-
128.	Bettles	A1-2 AB	17007	17009	17009	-	058	059	-
129.	Bettles	A1-1 AB	17007	17009	-	-	058	-	-
130.	Bettles	B1-8 AB	17007	17009	17010	-	057	-	-
131.	Bettles	B1-7 AB	17009 17013	17010 -	17011 -	17012 -	056 -	057 -	- -
132.	Bettles	B1-4 AB	17012 17016	17013 17017	17014 -	17015 -	056 -	- -	- -
133.	Bettles	B2-6 AB	17014 17018	17015 17019	17016 -	17017 -	055 -	- -	- -
134.	-	-	-	-	-	-	-	-	-
135.	Bettles	B2-3 AB	17019	17020	17021	17022	054	055	-
136.	Bettles	B2-2 AB	17021	17022	17023	17024	054	-	-
137.	Bettles	C2-9 AB	17023	17024	-	-	-	-	-
138.	Bettles	C2-8 AB	17024	16003	16005	16007	053	-	-
139.	Bettles	C2-6 AB	16007	16009	16011	-	052	-	-
140.	Bettles	C2-5 AB	16007	16009	16011	-	052	-	-
141.	Bettles	C2-3 AB	16011	16013	16014	-	051	-	-
142.	Bettles	C2-2 AB	16011	16013	16015	-	051	-	-
143.	Bettles	D2-9 AB	16015 15003	16017 15004	16019 -	15002 -	049 -	050 -	- -
144.	Bettles	D2-8 AB	16015	16017	16019	15002	050	-	-
145.	Bettles	D2-6 AB	15003	15004	15005	-	048	049	-
146.	Bettles	D1-4 AB	15006	15007	15008	-	048	-	-
147.	Bettles	D1-1 AB	15009	15010	15011	15012	047	048	-
148.	Bettles	D1-2 AB	15013 15019	15015	15017	15018	047	-	-

GAS PIPELINE HABITAT EVALUATION PROGRAM CROSS-REFERENCE OF
HABITAT MAPS, AERIAL PHOTOGRAPHS AND PIPELINE ALIGNMENT SHEETS

No.	Map Name		Photo No.*	Photo No.*	Photo No.*	Photo No.*	Alignment Sheet No.**		
149.	Wiseman	A1-7 AB	14005	150017	15018	-	046	-	-
150.	Wiseman	A1-8 AB	14003	14004	14006	15018	046	047	-
151.	Wiseman	A1-4 AB	14006	14008	14009	14010	045	046	-
152.	Wiseman	A1-5 AB	14008	14009	14010	-	045	046	-
153.	Wiseman	A1-1 AB	13003	13004	14010	-	044	045	-
154.	Wiseman	A1-2 AB	13004	13005	13006	-	044	-	-
155.	Wiseman	B1-8 AB	13008	13008	13009	-	042	043	-
156.	Wiseman	B1-9 AB	13009	13010	13011	13012	043	-	-
157.	Wiseman	B1-6 AB	13012	13013	13014	13015	042	-	-
158.	Wiseman	B1-3 AB	12001	12002	12003	12004	040	041	-
			13015	-	-	-	-	-	-
159.	Chandalar	B6-1 AB	12003	12004	12005	12006	040	-	-
160.	Chandalar	B6-2 AB	11003	12006	-	-	-	-	-
161.	Chandalar	C6-7 AB	11003	11004	11005	11006	039	-	-
162.	Chandalar	C6-8 AB	11003	11004	11005	11006	039	-	-
163.	Chandalar	C6-5 AB	11006	11008	11009	11010	038	039	-
164.	Chandalar	C6-2 AB	10004	10005	10006	10007	036	037	-
			10008	11010	-	-	-	-	-
165.	Chandalar	D6-8 AB	10008	10009	10010	10012	036	-	-
166.	Chandalar	D6-7 AB	10018	-	-	-	035	-	-
167.	Chandalar	D6-4 AB	10014	10015	10016	10017	034	035	-
168.	Chandalar	D6-5 AB	10016	10017	10018	10019	034	035	-
			09002	-	-	-	-	-	-
169.	Chandalar	D6-1 AB	09002	09003	09004	10012	034	-	-
170.	Chandalar	D6-2 AB	09004	09005	09006	09007	033	034	-
171.	Philip Smith Mts.	A5-8 AB	00907	00908	00909	00911	032	033	-
172.	Philip Smith Mts.	A5-9 AB	00911	00912	00913	00915	032	-	-
173.	Philip Smith Mts.	A5-6 AB	09015	09016	09017	08002	031	-	-
			00804	-	-	-	-	-	-
174.	Philip Smith Mts.	A5-3 AB	00804	00805	00806	00807	029	030	-
175.	Philip Smith Mts.	A4-1 AB	00805	00806	00807	-	030	-	-
176.	Philip Smith Mts.	B5-9 AB	00809	-	-	-	029	-	-
177.	Philip Smith Mts.	B4-7 AB	00809	00811	00812	00814	028	029	-
178.	Philip Smith Mts.	B4-4 AB	00814	00815	00816	07004	027	028	-
179.	Philip Smith Mts.	B4-1 AB	07004	07005	07006	-	027	-	-
180.	Philip Smith Mts.	B5-3 AB	07005	07006	07007	07009	026	027	-
			07010	-	-	-	-	-	-
181.	Philip Smith Mts.	C5-9 AB	07010	07011	07012	06002	025	026	-
182.	Philip Smith Mts.	C5-6 AB	06002	06003	06004	06005	024	025	-
183.	Philip Smith Mts.	C4-4 AB	06005	06007	06008	-	023	024	-
184.	Philip Smith Mts.	C4-1 AB	06008	06009	06011	06012	023	-	-
185.	Philip Smith Mts.	C4-2 AB	06012	06014	06016	-	022	-	-
186.	Philip Smith Mts.	C4-3 AB	06014	06016	05002	-	021	-	-
187.	Philip Smith Mts.	D4-9 AB	05002	05003	05004	-	020	021	-

GAS PIPELINE HABITAT EVALUATION PROGRAM CROSS-REFERENCE OF
HABITAT MAPS, AERIAL PHOTOGRAPHS AND PIPELINE ALIGNMENT SHEETS

No.	Map Name		Photo No.*	Photo No.*	Photo No.*	Photo No.*	Alignment Sheet No.**		
188.	Philip Smith Mts.	D4-6 AB	05004	05005	05006	05007	019	020	-
189.	Philip Smith Mts.	D3-4 AB	05007	05019	05010	-	-	-	-
190.	Philip Smith Mts.	D4-3 AB	05010	05012	05014	-	018	019	-
191.	Philip Smith Mts.	D3-1 AB	05010	05012	05014	-	-	-	-
192.	Sagavanirktok	A4-9 AB	05014	05016	05018	-	017	-	-
193.	Sagavanirktok	A3-7 AB	05016	05027	05028	-	017	-	-
194.	Sagavanirktok	A4-6 AB	05018	05020	05022	-	015	016	-
195.	Sagavanirktok	A3-4 AB	05018	05020	05022	05024	-	-	-
196.	Sagavanirktok	A4-3 AB	05024	05026	04002	-	014	015	-
197.	Sagavanirktok	B3-1 AB	05024	05026	04002	-	015	-	-
198.	Sagavanirktok	B4-9 AB	04002	04004	-	-	-	-	-
199.	Sagavanirktok	B3-7 AB	04002	04004	04006	-	013	014	-
200.	Sagavanirktok	B3-4 AB	04006	04008	04010	04011	012	013	-
			01002 ^t	01004 ^t	02002 ^t	-	-	-	-
201.	Sagavanirktok	B3-5 AB	04010	04011	04012	-	-	-	-
202.	Sagavanirktok	B3-1 AB	04012	04013	02002 ^t	02004 ^t	012	-	-
203.	Sagavanirktok	B3-2 AB	04013	04014	03003	-	011	012	-
204.	Sagavanirktok	C3-7 AB	03003	03005	03007	-	010	011	-
205.	Sagavanirktok	C3-8 AB	03003	03005	03007	-	010	011	-
206.	Sagavanirktok	C3-4 AB	03007	03009	03011	-	009	010	-
207.	Sagavanirktok	C3-5 AB	03007	03009	03011	-	-	-	-
208.	Sagavanirktok	C3-1 AB	03011	03013	03015	03017	008	009	-
209.	Sagavanirktok	D3-7 AB	03017	03019	03021	-	007	008	-
210.	Sagavanirktok	D3-4 AB	03021	03023	03024	02002	006	007	-
			02004	-	-	-	-	-	-
211.	Sagavanirktok	D4-6 AB	03021	03023	03024	02002	-	-	-
212.	Sagavanirktok	D4-3 AB	02002	02004	02005	-	-	-	-
213.	Sagavanirktok	D3-1 AB	02004	02005	02006	02008	005	-	-
214.	Beechey Point	A3-7 AB	02006	02008	02010	01A004	004	005	-
215.	Beechey Point	A3-8 AB	02008	02010	-	-	004	-	-
216.	Beechey Point	A3-4 AB	01A004	01A006	01A008		003	-	-
217.	Beechey Point	A3-5 AB	02014	02016	01A004	01A006	003	004	-
218.	Beechey Point	A3-1 AB	01A008	01A010	01A012	-	002	-	-
219.	Beechey Point	A3-2 AB	01A010	01A012	02016	02018	-	-	-
			01003	01005	-	-	-	-	-
220.	Beechey Point	A3-3 AB	01003	02018	-	-	-	-	-

GAS PIPELINE HABITAT EVALUATION PROGRAM CROSS-REFERENCE OF
HABITAT MAPS, AERIAL PHOTOGRAPHS AND PIPELINE ALIGNMENT SHEETS

No.	Map Name	Photo No.*	Photo No.*	Photo No.*	Photo No.*	Alignment Sheet No.**		
221.	Beechey Point B3-7 AB	01A012	07017 ^{tt}	07019 ^{tt}	08017 ^{tt}	001	-	-
		98918 ^{tt}	-	-	-	-	-	-
222.	Beechey Point B3-8 AB	01005	01007	07017 ^{tt}	06017 ^{tt}	001	-	-
		05027 ^{tt}						

* Unless otherwise noted, photos are from the 1978 true color set of photography taken by Northwest Alaskan Pipeline Company.

**All alignment sheet numbers are from the May 1979 Series (4680-12-00-B-C)

^t These photos were exposed in June 1979 by Northwest Alaskan Pipeline Company during a reflight mission at a scale of 1:24000.

^{tt} These photos of Prudhoe Bay were exposed in July 1979 by Air Photo Tech. at a scale of 1:18000.

Appendix C

Preliminary Linear Distances Intersected By the Proposed ANGTS Route

Table 1. Types used to map the Alaska Natural Gas Transportation System route and their respective symbols.

Type Symbol	Coverttype	Type Symbol	Coverttype	Type Symbol	Coverttype
01-00	Sedge-Grass Tundra	13-01	Deciduous Forest-Open	19-01	Forested Wetland-Conifer
02-01	Sedge-Tussock Tundra	13-02	Deciduous Forest-Closed	20-01	Mixed Shrub Wetland
02-02	Sedge-Shrub Tussock Tundra			21-00	Moss Bog
03-00	Alpine Tundra	14-01	Mixed Conifer-Deciduous Forest-Open	22-01	Wet Tundra
04-00	Mat & Cushion Tundra	14-02	Mixed Conifer-Deciduous Forest-Closed	22-02	Sedge-Grass Marsh
05-00	Shrub Tundra			22-03	Brackish Sedge Marsh
		15-00	Unvegetated Floodplain		
06-01	Tall Shrub-Upland Willow	16-00	Bare Ground (sand dunes, cut banks, talus)	23-11	Pond - 0-25% Emergent Cover
06-02	Tall Shrub-Upland Mix	17-00	Agriculture	23-12	Pond - 25-75% Emergent Cover
06-03	Tall Shrub-Upland Burn			23-13	Pond - 75-100% Emergent Cover
		18-01	Airstrips	23-20	Pond - No Emergent Cover
07-01	Tall Shrub-Riparian Willow	18-02	Camps		
07-02	Tall Shrub-Riparian Mix	18-03	Tailing Piles	24-11	Lake - 0-25% Emergent Cover
		18-04	Utilities Corridor	24-12	Lake - 25-75% Emergent Cover
08-01	Low Shrub-Upland Willow	18-05	Haul Road	24-13	Lake - 75-100% Emergent Cover
08-02	Low Shrub-Upland Mix	18-06	Material Sites	24-20	Lake - No Emergent Cover
		18-07	Disposal Sites		
09-01	Low Shrub-Riparian Willow	18-08	Urban Development (including homesteads)	25-01	Stream - Braided
09-02	Low Shrub-Riparian Mix	18-09	Storage Pad	25-02	Stream - Incised
		18-10	Man Caused Erosion	25-03	Stream - Meandering
10-00	Mud Flats/Dried Organic Matter on recently drained areas	18-11	Military Establishment	25-04	Stream - Beaded
		18-12	Primary Roads	25-05	Stream - High Gradient Mountain
11-00	Revegetated Sites	18-13	Secondary Roads (side streets, access roads)		
		18-14	Highway Maintenance Stations	26-01	River - Braided
12-01	Conifer Forest-Open	18-15	Pump Stations	26-02	River - Incised
12-02	Conifer Forest-Closed	18-16	Drill Pad	26-03	River - Meandering
12-03	Conifer Forest-Dwarf	18-17	Petroleum Feeder lines		
12-04	Conifer Forest-Burned	18-18	Holding Pond		
		18-19	Construction Facilities		
C - Clouds		S - Shadow			

Table 1. Types used to map the Alaska Natural Gas Transportation System route and their respective symbols.

Type Symbol	Covertime	Type Symbol	Covertime	Type Symbol	Covertime
01-00	Sedge-Grass Tundra	13-01	Deciduous Forest-Open	19-01	Forested Wetland-Conifer
02-01	Sedge-Tussock Tundra	13-02	Deciduous Forest-Closed	20-01	Mixed Shrub Wetland
02-02	Sedge-Shrub Tussock Tundra			21-00	Moss Bog
03-00	Alpine Tundra	14-01	Mixed Conifer-Deciduous Forest-Open		
04-00	Mat & Cushion Tundra	14-02	Mixed Conifer-Deciduous Forest-Closed	22-01	Wet Tundra
05-00	Shrub Tundra			22-02	Sedge-Grass Marsh
		15-00	Unvegetated Floodplain	22-03	Brackish Sedge Marsh
06-01	Tall Shrub-Upland Willow	16-00	Bare Ground (sand dunes, cut banks, talus)		
06-02	Tall Shrub-Upland Mix	17-00	Agriculture	23-11	Pond - 0-25% Emergent Cover
06-03	Tall Shrub-Upland Burn			23-12	Pond - 25-75% Emergent Cover
		18-01	Airstrips	23-13	Pond - 75-100% Emergent Cover
07-01	Tall Shrub-Riparian Willow	18-02	Camps	23-20	Pond - No Emergent Cover
07-02	Tall Shrub-Riparian Mix	18-03	Tailing Piles		
		18-04	Utilities Corridor	24-11	Lake - 0-25% Emergent Cover
08-01	Low Shrub-Upland Willow	18-05	Haul Road	24-12	Lake - 25-75% Emergent Cover
08-02	Low Shrub-Upland Mix	18-06	Material Sites	24-13	Lake - 75-100% Emergent Cover
		18-07	Disposal Sites	24-20	Lake - No Emergent Cover
09-01	Low Shrub-Riparian Willow	18-08	Urban Development (including homesteads)		
09-02	Low Shrub-Riparian Mix	18-09	Storage Pad	25-01	Stream - Braided
		18-10	Man Caused Erosion	25-02	Stream - Incised
10-00	Mud Flats/Drainage Organic Matter on recently drained areas	18-11	Military Establishment	25-03	Stream - Meandering
		18-12	Primary Roads	25-04	Stream - Beaded
11-00	Revegetated Sites	18-13	Secondary Roads (side streets, access roads)	25-05	Stream - High Gradient Mountain
		18-14	Highway Maintenance Stations		
12-01	Conifer Forest-Open	18-15	Pump Stations	26-01	River - Braided
12-02	Conifer Forest-Closed	18-16	Drill Pad	26-02	River - Incised
12-03	Conifer Forest-Dwarf	18-17	Petroleum Feeder lines	26-03	River - Meandering
12-04	Conifer Forest-Burned	18-18	Holding Pond		
		18-19	Construction Facilities		
C - Clouds		S - Shadow			

Table 1. Types used to map the Alaska Natural Gas Transportation System route and their respective symbols.

Type Symbol	Covertypes	Type Symbol	Covertypes	Type Symbol	Covertypes
01-00	Sedge-Grass Tundra	13-01	Deciduous Forest-Open	19-01	Forested Wetland-Conifer
02-01	Sedge-Tussock Tundra	13-02	Deciduous Forest-Closed	20-01	Mixed Shrub Wetland
02-02	Sedge-Shrub Tussock Tundra			21-00	Moss Bog
03-00	Alpine Tundra	14-01	Mixed Conifer-Deciduous Forest-Open		
04-00	Mat & Cushion Tundra	14-02	Mixed Conifer-Deciduous Forest-Closed	22-01	Wet Tundra
05-00	Shrub Tundra			22-02	Sedge-Grass Marsh
		15-00	Unvegetated Floodplain	22-03	Brackish Sedge Marsh
06-01	Tall Shrub-Upland Willow	16-00	Bare Ground (sand dunes, cut banks, talus)		
06-02	Tall Shrub-Upland Mix	17-00	Agriculture	23-11	Pond - 0-25% Emergent Cover
06-03	Tall Shrub-Upland Burn			23-12	Pond - 25-75% Emergent Cover
		18-01	Airstrips	23-13	Pond - 75-100% Emergent Cover
07-01	Tall Shrub-Riparian Willow	18-02	Camps	23-20	Pond - No Emergent Cover
07-02	Tall Shrub-Riparian Mix	18-03	Tailing Piles		
		18-04	Utilities Corridor	24-11	Lake - 0-25% Emergent Cover
08-01	Low Shrub-Upland Willow	18-05	Haul Road	24-12	Lake - 25-75% Emergent Cover
08-02	Low Shrub-Upland Mix	18-06	Material Sites	24-13	Lake - 75-100% Emergent Cover
		18-07	Disposal Sites	24-20	Lake - No Emergent Cover
09-01	Low Shrub-Riparian Willow	18-08	Urban Development (including homesteads)		
09-02	Low Shrub-Riparian Mix	18-09	Storage Pad	25-01	Stream - Braided
		18-10	Man Caused Erosion	25-02	Stream - Incised
10-00	Mud Flats/Dried Organic Matter on recently drained areas	18-11	Military Establishment	25-03	Stream - Meandering
		18-12	Primary Roads	25-04	Stream - Beaded
11-00	Revegetated Sites	18-13	Secondary Roads (side streets, access roads)	25-05	Stream - High Gradient Mountain
		18-14	Highway Maintenance Stations		
12-01	Conifer Forest-Open	18-15	Pump Stations	26-01	River - Braided
12-02	Conifer Forest-Closed	18-16	Drill Pad	26-02	River - Incised
12-03	Conifer Forest-Dwarf	18-17	Petroleum Feeder lines	26-03	River - Meandering
12-04	Conifer Forest-Burned	18-18	Holding Pond		
		18-19	Construction Facilities		
C - Clouds		S - Shadow			

REQUISITION for COPY SERVICE and BINDING SERVICE

JOB NUMBER

217

1. Project Code

2. Requester

3. Extension No.

71493

Carl Sp 27.

472

9048

4. Description, title, or form number

Wickland Distances

Cleanest possible
with the way they
are put together

9040

Table 3. Wetland Distances (in feet) Intersected by the Proposed ANGTS Route Summerized by Wetland Habitat Type.

01-00		02-01		02-02		07-02		09-01		09-02	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
001	29800	012	8315	012	12500	012	130	023	1345	014	1060
001	26545		8315	013	30425	015	30	027	2000	015	125
003	27250			014	5250	018	375	028	1655	017	187
004	23937			015	16452	032 ⁽²⁾	1440	029	1260	018	875
005	25875			016	30550	034	4630	030	4437	020	90
006	30625			017	23225	035	6687	073	2300	029	562
007	26964			018	1705	036	400	084	1183	031 ⁽²⁾	187
008	28500			019	11975	038	875		14180	032 ⁽²⁾	1375
009	30025			020	26312	041	312			035	30
010	22187			021	26375	044	220			102	960
011	30375			022	14190	046	62			Road	
012	1310			023	18652	050	750			Route	5451
026	2187			024	687	051	417				
027	12823			025	26255	053	250			031 ⁽³⁾	750
028	500			026	19470	055	850			032 ⁽³⁾	1500
	318903			038	572	058	260			Tunnel	
				039	13375	067	120			Route	6139
				040	6750	084	30				
				041	1370	091	968				
				042	2487	092	125				
				043	2282	126	250				
				044	3262	129	250				
				045	3806						
				046	875	Road					
				047	16462	Route	19431				
				049	250						
				050	375	032 ⁽³⁾	1440				
				051	1094	Tunnel					
				052	250	Route	19431				
				053	40						
				060	1562						
				061	312						
				064	1387						
				068	350						
				069	687						
				073	750						

(1) Haul Road Related
(2) Road Route
(3) Tunnel Route

02-02 (cont'd)

<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>
079	2712
085	375
089	780
090	3029
093	1299
109	448
110	1125
126	2500
127	3125
128	9793
129	9992
130	1875
131	2000
	<u>361437</u>

15-00		20-01		22-01		22-02		23-11		23-12	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
001	167	015	1187	001	1500	020	250	033	125	104	350
030	1470	023	250	002	937	023	812	110	62		350
031 ⁽²⁾	970	033	125	003	2365	084	375	128	500		
033	2300	034	680	004	1200	085	584		687		
034	640	037	500	005	1470	086	655				
037	31	038	1627	006	250	087	312				
038	818	040	2524	007	3875	094	850				
041	2086	043	250	010	560	104	562				
047	250	045	845	011	375		4400				
089	250	046	850	018	812						
110	375	061	750	021	792						
Road		068	125	022	120						
Route	9357	073	120	026	2140						
		079	798	083	125						
031 ⁽³⁾	60	083	2440		16521						
Tunnel		084	307								
Route	8447	085	3013								
		086	1058								
		089	93								
		090	1000								
		093	1750								
		094	21250								
		095	8436								
		097	500								
		105	250								
		108	2630								
		114	5625								
		117	625								
		118	1845								
		130	7500								
		131	7188								
			76141								

23-13		23-20		24-11		25-01		25-03		25-04	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
013	250 ⁽¹⁾	002	375	045	156	037	62	002	20	017	50
104	120	003	750		156	041	62	005	20	018	30
114	500	004	60			111	300	007	40	019	90
130	250	007	187			112	591	012	90	023	120
	1120	010	62			113	175	013	200		290
		041	375				1190	014	40		
		051	62					015	100		
		114	1312					016	100		
			3183					017	50		
								018	90		
								021	20		
								024	50		
								027	100		
								043	180		
								044	20		
								045	240		
								048	200		
								049	200		
								051	350		
								052	50		
								053	100		
								057	50		
								061	150		
								063	100		
								064	50		
								068	150		
								069	50		
								074	50		
								075	50		
								078	50		
								079	250		
								080	50		
								081	200		
								082	150		
								083	460		
								085	50		

25-05		26-01		26-03		25-03 (cont'd)	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
012	20	001	100	024	62	086	300
017	50	028	62	027	400	087	150
019	60	032 ⁽²⁾	1000	047	125	088	300
022	80	033	2587	048	120	089	100
023	20	038	214	050	62	090	150
025	160	040	125	051	62	091	220
026	100	041	340	052	62	093	100
027	290	102	750	064	1812	099	50
028	220	103	125	068	62	100	50
029	40	104	750	079	62	103	150
030	140	110	1062	084	286	105	50
031 ⁽²⁾	180	Road		089	156	106	100
032 ⁽²⁾	300	Route	7115	095	125	107	50
033	100			096	625	108	100
034	210	031 ⁽³⁾	50	118	562	109	50
035	70	032 ⁽³⁾	1050		4583	114	50
036	70	Tunnel				117	150
039	100	Route	7215			121	100
040	70					122	50
046	30					123	50
047	100					124	150
049	100					125	150
050	600					126	20
051	70					127	50
052	50					128	50
053	70					129	220
054	100					130	50
055	200					131	100
056	250						7230
057	250						
058	90						
059	100						
060	50						
061	50						
062	300						

19-01

25-05 (cont'd)

Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
		060	1780
063	200	061	315
065	150	068	525
066	150	079	2000
067	220	083	2372
068	100	085	5010
069	100	086	1596
070	100	087	438
071	50	094	5999
072	50	095	2375
073	400	104	250
075	50	116	1000
076	250	117	750
078	150	118	1375
089	100	131	562
091	40		<u>26347</u>
092	320		
106	162		
112	50		
113	250		
123	50		
125	50		
131	100		
Road Route	7782		
032 ⁽³⁾	300		
Tunnel Route	7602		
		Total	
		Road Route	894169
		Tunnel Route	893867

Table 3. Wetland Distances (in feet) Intersected by the Proposed ANGTS Route Summerized by Wetland Habitat Type.

01-00		02-01		02-02		07-02		09-01		09-02	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
001	29800	012	8315	012	12500	012	130	023	1345	014	1060
001	26545		8315	013	30425	015	30	027	2000	015	125
003	27250			014	5250	018	375	028	1655	017	187
004	23937			015	16452	032 ⁽²⁾	1440	029	1260	018	875
005	25875			016	30550	034	4630	030	4437	020	90
006	30625			017	23225	035	6687	073	2300	029	562
007	26964			018	1705	036	400	084	1183	031 ⁽²⁾	187
008	28500			019	11975	038	875		14180	032 ⁽²⁾	1375
009	30025			020	26312	041	312			035	30
010	22187			021	26375	044	220			102	960
011	30375			022	14190	046	62			Road	
012	1310			023	18652	050	750			Route	5451
026	2187			024	687	051	417				
027	12823			025	26255	053	250			031 ⁽³⁾	750
028	500			026	19470	055	850			032 ⁽³⁾	1500
	318903			038	572	058	260			Tunnel	
				039	13375	067	120			Route	6139
				040	6750	084	30				
				041	1370	091	968				
				042	2487	092	125				
				043	2282	126	250				
				044	3262	129	250				
				045	3806						
				046	875	Road					
				047	16462	Route	19431				
				049	250						
				050	375	032 ⁽³⁾	1440				
				051	1094	Tunnel					
				052	250	Route	19431				
				053	40						
				060	1562						
				061	312						
				064	1387						
				068	350						
				069	687						
				073	750						

(1)Haul Road Related
(2)Road Route
(3)Tunnel Route

02-02 (cont'd)

<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>
079	2712
085	375
089	780
090	3029
093	1299
109	448
110	1125
126	2500
127	3125
128	9793
129	9992
130	1875
131	2000
	<u>361437</u>

15-00		20-01		22-01		22-02		23-11		23-12	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
001	167	015	1187	001	1500	020	250	033	125	104	350
030	1470	023	250	002	937	023	812	110	62		350
031 ⁽²⁾	970	033	125	003	2365	084	375	128	500		
033	2300	034	680	004	1200	085	584		687		
034	640	037	500	005	1470	086	655				
037	31	038	1627	006	250	087	312				
038	818	040	2524	007	3875	094	850				
041	2086	043	250	010	560	104	562				
047	250	045	845	011	375		4400				
089	250	046	850	018	812						
110	375	061	750	021	792						
Road		068	125	022	120						
Route	9357	073	120	026	2140						
		079	798	083	125						
031 ⁽³⁾	60	083	2440		16521						
Tunnel		084	307								
Route	8447	085	3013								
		086	1058								
		089	93								
		090	1000								
		093	1750								
		094	21250								
		095	8436								
		097	500								
		105	250								
		108	2630								
		114	5625								
		117	625								
		118	1845								
		130	7500								
		131	7188								
			76141								

23-13		23-20		24-11		25-01		25-03		25-04	
<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>	<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>	<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>	<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>	<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>	<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>
013	250 ⁽¹⁾	002	375	045	156	037	62	002	20	017	50
104	120	003	750		156	041	62	005	20	018	30
114	500	004	60			111	300	007	40	019	90
130	250	007	187			112	591	012	90	023	120
	1120	010	62			113	175	013	200		290
		041	375				1190	014	40		
		051	62					015	100		
		114	1312					016	100		
			3183					017	50		
								018	90		
								021	20		
								024	50		
								027	100		
								043	180		
								044	20		
								045	240		
								048	200		
								049	200		
								051	350		
								052	50		
								053	100		
								057	50		
								061	150		
								063	100		
								064	50		
								068	150		
								069	50		
								074	50		
								075	50		
								078	50		
								079	250		
								080	50		
								081	200		
								082	150		
								083	460		
								085	50		

25-05		26-01		26-03		25-03 (cont'd)	
<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>	<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>	<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>	<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>
012	20	001	100	024	62	086	300
017	50	028	62	027	400	087	150
019	60	032 ⁽²⁾	1000	047	125	088	300
022	80	033	2587	048	120	089	100
023	20	038	214	050	62	090	150
025	160	040	125	051	62	091	220
026	100	041	340	052	62	093	100
027	290	102	750	064	1812	099	50
028	220	103	125	068	62	100	50
029	40	104	750	079	62	103	150
030	140	110	1062	084	286	105	50
031 ⁽²⁾	180	Road		089	156	106	100
032 ⁽²⁾	300	Route	7115	095	125	107	50
033	100			096	625	108	100
034	210	031 ⁽³⁾	50	118	562	109	50
035	70	032 ⁽³⁾	1050		4583	114	50
036	70	Tunnel				117	150
039	100	Route	7215			121	100
040	70					122	50
046	30					123	50
047	100					124	150
049	100					125	150
050	600					126	20
051	70					127	50
052	50					128	50
053	70					129	220
054	100					130	50
055	200					131	100
056	250						7230
057	250						
058	90						
059	100						
060	50						
061	50						
062	300						

19-01

25-05 (cont'd)

Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
		060	1780
063	200	061	315
065	150	068	525
066	150	079	2000
067	220	083	2372
068	100	085	5010
069	100	086	1596
070	100	087	438
071	50	094	5999
072	50	095	2375
073	400	104	250
075	50	116	1000
076	250	117	750
078	150	118	1375
089	100	131	562
091	40		<u>26347</u>
092	320		
106	162		
112	50		
113	250		
123	50		
125	50		
131	<u>100</u>		
Road Route	7782		
032 ⁽³⁾	<u>300</u>		
Tunnel Route	7602		

Total	
Road Route	894169
Tunnel Route	893867

Table 3. Wetland Distances (in feet) Intersected by the Proposed ANGTS Route Summerized by Wetland Habitat Type.

01-00		02-02		02-02 (cont'd)		07-02		09-01		09-02	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
001	29800	012	12500	079	2712	012	130	023	1345	014	1060
001	26545	013	30425	085	375	015	30	027	2000	015	125
003	27250	014	5250	089	780	018	375	028	1655	017	187
004	23937	015	16452	090	3029	032 ⁽²⁾	1440	029	1260	018	875
005	25875	016	30550	093	1299	034	4630	030	4437	020	90
006	30625	017	23225	109	448	035	6687	073	2300	029	562
007	26964	018	1705	110	1125	036	400	084	1183	031 ⁽²⁾	187
008	28500	019	11975	126	2500	038	875		14180	032 ⁽²⁾	1375
009	30025	020	26312	127	3125	041	312			035	30
010	22187	021	26375	128	9793	044	220			102	960
011	30375	022	14190	129	9992	046	62			Road	
012	1310	023	18652	130	1875	050	750			Route	5451
026	2187	024	687	131	2000	051	417				
027	12823	025	26255		361437	053	250			031 ⁽³⁾	750
028	500	026	19470			055	850			032 ⁽³⁾	1500
	318903	038	572			058	260			Tunnel	
		039	13375			067	120			Route	6139
		040	6750			084	30				
		041	1370			091	968				
		042	2487			092	125				
		043	2282			126	250				
		044	3262			129	250				
		045	3806			Road					
		046	875			Route	19431				
		047	16462								
		049	250			032 ⁽³⁾	1440				
		050	375			Tunnel					
		051	1094			Route	19431				
		052	250								
		053	40								
		060	1562								
		061	312								
		064	1387								
		068	350								
		069	687								
		073	750								

(1) Haul Road Related
(2) Road Route
(3) Tunnel Route

25-04

Alignment Sheet Number	Wetland Distance Intersected
------------------------------	------------------------------------

017	50
018	30
019	90
023	120
	290

25-05

Alignment Sheet Number	Wetland Distance Intersected
------------------------------	------------------------------------

012	20
017	50
019	60
022	80
023	20
025	160
026	100
027	290
028	220
029	40
030	140
031 ⁽²⁾	180
032 ⁽²⁾	300
033	100
034	210
035	70
036	70
039	100
040	70
046	30
047	100
049	100
050	600
051	70
052	50
053	70
054	100
055	200
056	250
057	250
058	90
059	100
060	50
061	50
062	300

25-05 (cont'd)

Alignment Sheet Number	Wetland Distance Intersected
------------------------------	------------------------------------

063	200
065	150
066	150
067	220
068	100
069	100
070	100
071	50
072	50
073	400
075	50
076	250
078	150
089	100
091	40
092	320
106	162
112	50
113	250
123	50
125	50
131	100
Road Route	7782
032 ⁽³⁾	300
Tunnel Route	7602

26-01

Alignment Sheet Number	Wetland Distance Intersected
------------------------------	------------------------------------

001	100
028	62
032 ⁽²⁾	1000
033	2587
038	214
040	125
041	340
102	750
103	125
104	750
110	1062
Road Route	7115
031 ⁽³⁾	50
032 ⁽³⁾	1050
Tunnel Route	7215

26-03

Alignment Sheet Number	Wetland Distance Intersected
------------------------------	------------------------------------

024	62
027	400
047	125
048	120
050	62
051	62
052	62
064	1812
068	62
079	62
084	286
089	156
095	125
096	625
118	562
	4583

Total	
Road Route	894169
Tunnel Route	893867

23-13		23-20		24-11		25-01		25-03		25-03 (cont'd)	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
013	250 ⁽¹⁾	002	375	045	156	037	62	002	20	086	300
104	120	003	750		156	041	62	005	20	087	150
114	500	004	60			111	300	007	40	088	300
130	250	007	187			112	591	012	90	089	100
	<u>1120</u>	010	62			113	175	013	200	090	150
		041	375				1190	014	40	091	220
		051	62					015	100	093	100
		114	1312					016	100	099	50
			<u>3183</u>					017	50	100	50
								018	90	103	150
								021	20	105	50
								024	50	106	100
								027	100	107	50
								043	180	108	100
								044	20	109	50
								045	240	114	50
								048	200	117	150
								049	200	121	100
								051	350	122	50
								052	50	123	50
								053	100	124	150
								057	50	125	150
								061	150	126	20
								063	100	127	50
								064	50	128	50
								068	150	129	220
								069	50	130	50
								074	50	131	100
								075	50		<u>7230</u>
								078	50		
								079	250		
								080	50		
								081	200		
								082	150		
								083	460		
								085	50		

15-00		19-01		20-01		22-01		22-02		23-11	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
001	167	060	1780	015	1187	001	1500	020	250	033	125
030	1470	061	315	023	250	002	937	023	812	110	62
031 ⁽²⁾	970	068	525	033	125	003	2365	084	375	128	500
033	2300	079	2000	034	680	004	1200	085	584		687
034	640	083	2372	037	500	005	1470	086	655		
037	31	085	5010	038	1627	006	250	087	312		
038	818	086	1596	040	2524	007	3875	094	850		
041	2086	087	438	043	250	010	560	104	562		
047	250	094	5999	045	845	011	375		4400		
089	250	095	2375	046	850	018	812				
110	375	104	250	061	750	021	792				
Road		116	1000	068	125	022	120				
Route	9357	117	750	073	120	026	2140				
		118	1375	079	798	083	125				
031 ⁽³⁾	60	131	562	083	2440		16521				
Tunnel			26347	084	307						
Route	8447			085	3013						
				086	1058						
				089	93						
				090	1000						
				093	1750						
				094	21250						
				095	8436						
				097	500						
				105	250						
				108	2630						
				114	5625						
				117	625						
				118	1845						
				130	7500						
				131	7188						
					76141						

23-12	
Alignment Sheet Number	Wetland Distance Intersected
104	350
	350

Table 3. Wetland Distances (in feet) Intersected by the Proposed ANGTS Route Summnerized by Wetland Habitat Type.

01-00		02-02		02-02 (cont'd)		07-02		09-01		09-02	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
001	29800	012	12500	079	2712	012	130	023	1345	014	1060
001	26545	013	30425	085	375	015	30	027	2000	015	125
003	27250	014	5250	089	780	018	375	028	1655	017	187
004	23937	015	16452	090	3029	032 ⁽²⁾	1440	029	1260	018	875
005	25875	016	30550	093	1299	034	4630	030	4437	020	90
006	30625	017	23225	109	448	035	6687	073	2300	029	562
007	26964	018	1705	110	1125	036	400	084	1183	031 ⁽²⁾	187
008	28500	019	11975	126	2500	038	875		14180	032 ⁽²⁾	1375
009	30025	020	26312	127	3125	041	312			035	30
010	22187	021	26375	128	9793	044	220			102	960
011	30375	022	14190	129	9992	046	62			Road	
012	1310	023	18652	130	1875	050	750			Route	5451
026	2187	024	687	131	2000	051	417				
027	12823	025	26255		361437	053	250			031 ⁽³⁾	750
028	500	026	19470			055	850			032 ⁽³⁾	1500
	318903	028	572			058	260			Tunnel	
		039	13375			067	120			Route	6139
		040	6750			084	30				
		041	1370			091	968				
		042	2487			092	125				
		043	2282			126	250				
		044	3262			129	250				
		045	3806			Road					
		046	875			Route	19431				
		047	16462								
		049	250			032 ⁽³⁾	1440				
		050	375			Tunnel					
		051	1094			Route	19431				
		052	250								
		053	40								
		060	1562								
		061	312								
		064	1387								
		068	350								
		069	687								
		073	750								

(1) Haul Road Related
(2) Road Route
(3) Tunnel Route

15-00		19-01		20-01		22-01		22-02		23-11	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
001	167	060	1780	015	1187	001	1500	020	250	033	125
030	1470	061	315	023	250	002	937	023	812	110	62
031 ⁽²⁾	970	068	525	033	125	003	2365	084	375	128	500
033	2300	079	2000	034	680	004	1200	085	584		687
034	640	083	2372	037	500	005	1470	086	655		
037	31	085	5010	038	1627	006	250	087	312		
038	818	086	1596	040	2524	007	3875	094	850		
041	2086	087	438	043	250	010	560	104	562		
047	250	094	5999	045	845	011	375		4400		
089	250	095	2375	046	850	018	812			23-12	
110	375	104	250	061	750	021	792			Alignment	Wetland
Road		116	1000	068	125	022	120			Sheet	Distance
Route	9357	117	750	073	120	026	2140			Number	Intersected
		118	1375	079	798	083	125				
031 ⁽³⁾	60	131	562	083	2440		16521			104	350
Tunnel			26347	084	307						350
Route	8447			085	3013						
				086	1058						
				089	93						
				090	1000						
				093	1750						
				094	21250						
				095	8436						
				097	500						
				105	250						
				108	2630						
				114	5625						
				117	625						
				118	1845						
				130	7500						
				131	7188						
					76141						

23-13		23-20		24-11		25-01		25-03		25-03 (cont'd)	
<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>	<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>	<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>	<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>	<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>	<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>
013	250 ⁽¹⁾	002	375	045	156	037	62	002	20	086	300
104	120	003	750		156	041	62	005	20	087	150
114	500	004	60			111	300	007	40	088	300
130	250	007	187			112	591	012	90	089	100
	1120	010	62			113	175	013	200	090	150
		041	375				1190	014	40	091	220
		051	62					015	100	093	100
		114	1312					016	100	099	50
			3183					017	50	100	50
								018	90	103	150
								021	20	105	50
								024	50	106	100
								027	100	107	50
								043	180	108	100
								044	20	109	50
								045	240	114	50
								048	200	117	150
								049	200	121	100
								051	350	122	50
								052	50	123	50
								053	100	124	150
								057	50	125	150
								061	150	126	20
								063	100	127	50
								064	50	128	50
								068	150	129	220
								069	50	130	50
								074	50	131	100
								075	50		7230
								078	50		
								079	250		
								080	50		
								081	200		
								082	150		
								083	460		
								085	50		

25-04		25-05		25-05 (cont'd)		26-01		26-03	
<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>	<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>	<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>	<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>	<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>
017	50	012	20	063	200	001	100	024	62
018	30	017	50	065	150	028	62	027	400
019	90	019	60	066	150	032 ⁽²⁾	1000	047	125
023	120	022	80	067	220	033	2587	048	120
	<u>290</u>	023	20	068	100	038	214	050	62
		025	160	069	100	040	125	051	62
		026	100	070	100	041	340	052	62
		027	290	071	50	102	750	064	1812
		028	220	072	50	103	125	068	62
		029	40	073	400	104	750	079	62
		030	140	075	50	110	<u>1062</u>	084	286
		031 ⁽²⁾	180	076	250	Road		089	156
		032 ⁽²⁾	300	078	150	Route	7115	095	125
		033	100	089	100			096	625
		034	210	091	40	031 ⁽³⁾	50	118	<u>562</u>
		035	70	092	320	032 ⁽³⁾	<u>1050</u>		<u>4583</u>
		036	70	106	162	Tunnel			
		039	100	112	50	Route	7215		
		040	70	113	250				
		046	30	123	50				
		047	100	125	50				
		049	100	131	<u>100</u>				
		050	600	Road					
		051	70	Route	7782				
		052	50						
		053	70	032 ⁽³⁾	<u>300</u>			Total	
		054	100	Tunnel				Road Route	894169
		055	200	Route	7602			Tunnel Route	893867
		056	250						
		057	250						
		058	90						
		059	100						
		060	50						
		061	50						
		062	300						

31/32

Flight Line	Alignment Sheets	Old Distance	New Distance	Difference
37-34	131-118	17675	50757	+33082
33-27	117-96	16375	21339	+4964
26-20	95-64	94675	76441	-18234
19-13	63-40	41190	57483	+16293
12-8	39-28	105350	51487	-53863
7-1	27 1	411,595	620089	+208494

†190736

TO
WN

31 - 10

wettest
wetish

Canadian Border - Tellin June

Tellin June - Big Delta

Big Delta - Yukon River

Yukon River - Middle Fork of Koyukuk R.

M.F. Koyukuk R. - Atigun Summit

Atigun Summit - Prudhoe Bay

Aligned Sheet	Map Number	Error	
131	2A	Type labeled wrong (E)	one E produce other missing Type(E) =
130	3A	Type line gone (E)	
130	3A	Missed type (E)	
127	8A	12-02 $\Rightarrow$ 02-02 (E)	
126	9A	02-02 $\Rightarrow$ 12-02 (E)	- 27
126	10A	14-02 $\Rightarrow$? (E, I)	} 64
125	10A	25-03 $\Rightarrow$? (E)	
125	10A	25-03 $\Rightarrow$ 25-05 (E)	
125	13A	14-01 $\Rightarrow$ 14-02 (E)	- 30
121	19A	25-03 - not labeled (E)	- 2
119	23A	2-3 streams missing (I)	- 2
113	32A	25-05 (E) - no symbol	7
113	32A	25-05 (E) - no symbol	7
112	33A	25-05 (E) no symbol	11
112	33A	12-02 (E) no symbol	5
107	43A	14-01 $\Rightarrow$ 14-02 (E)	- 16
104	46A	23-13 (I) missed it	- 10
86	77A	19-01 $\Rightarrow$ 13-02 (E)	6
62	120A	25-5 $\Rightarrow$ 25-05 (E)	9
051	141A	23-02 $\Rightarrow$ 23-00 (E)	12
051	141A	28-05 $\Rightarrow$ 26-03 (E)	10
027	148A	05-00 } 02-02 boundary missing E	

Table *Summarized by alignment sheet* Wetland Distances ^(in feet) Intersected by the Proposed ARWTS Route ²

Alignment Sheet	cover Type	Wetland Distance Intersected	
001	01-00	29800	
	22-01	1500	
	26-01	<u>100</u>	
	subtotal	31400	
002	01-00	26545	
	22-01	937	
	23-20	375	
	25-03	<u>20</u>	
	subtotal	27877	
003	01-00	27250	
	22-01	2365	
	23-20	<u>750</u>	
	subtotal	30365	
004	01-00	23937	
	22-01	1200 ²	
	23-20	<u>60</u>	
	subtotal	25197	
005	01-00	25875	
	22-01	1470	
	25-03	<u>20</u>	
	subtotal	27365	
006	01-00	30625	
	22-01	<u>250</u>	
	subtotal	30875	

² Taken from
 * November 1980 Alignment sheet
 * Haul Road Related (1)

173079

007	01-00	26964
	22-01	3875
	23-20	187
	25-03	<u>40</u>

Subtotal 31066

008	01-00	28500
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Subtotal 28500

009	01-00	30025
-----	-------	-------

Subtotal 30025

010	01-00	22187
	22-01	560 ²
	23-20	62 ²

Subtotal 22809

011	01-00	30375
	22-01	375 ²

Subtotal 30750

012	01-00	1310
	02-01	8315
	02-02	12500
	07-02	130
	25-03	90
	25-05	20

Subtotal 22365

(2)

165515

1013
Sheet 2

013	02-02	30425
	23-13	250
	25-03	200

Subtotal 30875

014	02-02	5250
	09-02	1060
	25-03	40

Subtotal 6350

015	02-02	16452
	07-02	30
	09-02	125
	20-01	1187
	25-03	100

Subtotal 17894

016	02-02	30550
	25-03	100

Subtotal 30650

017	02-02	23225
	09-02	187
	25-03	50
	25-04	50
	25-05	50

Subtotal 23562
109831

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018	02-02	1705
	07-02	375
	09-02	875
	22-01	812
	25-03	90
	25-04	30

Subtotal 3887

019	02-02	11975
	25-04	90
	25-05	60

Subtotal 12125

020	02-02	26312
	09-02	90
	22-02	250

Subtotal 26652

021	02-02	26375
	22-01	792
	25-03	20

Subtotal 27187

022	02-02	14190
	22-01	120
	25-05	80

Subtotal 14390
84241

023

02-02

18652

09-01

1345

22-01

250

22-02

812

25-04

120

25-05

20

Subtotal 21199

024

02-02

687

25-03

50

26-03

62

Subtotal 799

025

02-02

26255

25-05

160

Subtotal 26415

026

01-00

2187

02-02

19470

22-01

2140

25-05

100

Subtotal 23897

027	01-00	12823
	09-01	2000
	25-03	100
	25-05	290
	26-03	400

Subtotal 15613

028	01-00	500
	09-01	1655
	25-05	220
	26-01	62

Subtotal 2437

029	09-01	1260
	09-02	562
	25-05	40

Subtotal 1862

030	09-01	4437
	25-05	140

Subtotal 4577

031	09-02	187
(Road Route)	25-05	180

Subtotal 367

032	07-02	1440
(Road Route)	09-02	1375
	25-05	300
	26-01	1000

Subtotal 4115

031	09-02	750
(Tunnel Route)	26-01	50

Subtotal 800

032	07-02	1440
(Tunnel Route)	09-02	1500
	25-05	300
	26-01	1050

Subtotal 4290

033	20-01	125
	23-11	125 ²
	25-05	100
	26-01	2587

Subtotal 2937

034	07-02	4630
	20-01	680
	25-05	210

Subtotal 5520

035	07-02	6687
	09-02	30
	25-05	70

Subtotal 6787

036	07-02	400
	25-05	70

Subtotal 470

037	20-01	500
	25-01	62

Subtotal 562

038	02-02	572
	07-02	875
	20-01	1627
	26-01	214

Subtotal 3288

039 02-02 13375
 25-05 100

Subtotal 13475

040 02-02 6750
 20-01 2524
 25-05 70
 26-01 125

Subtotal 9469

041 02-02 1370
 07-02 312
 23-20 375
 25-01 62
 26-01 340

Subtotal 2459

042 02-02 2487

Subtotal 2487

043 02-02 2282
 20-01 250
 25-03 180

Subtotal 2712

044	02-02	3262
	07-02	220
	25-03	20

Subtotal 3502

045	02-02	3806
	20-01	845
	24-11	156
	25-03	240

Subtotal 5047

046	02-02	875
	07-02	62
	20-01	850
	25-05	30

Subtotal 1817

047	02-02	16462
	25-05	100
	26-03	125

Subtotal 16687

048	25-03	200
	26-03	120

Subtotal 320

049	02-02	250
	25-03	200
	25-05	100

Subtotal 550

050	02-02	375
	07-02	750
	25-05	600
	26-03	62

Subtotal 1787

051	02-02	1094
	07-02	417
	23-20	62
	25-03	350
	25-05	70
	26-03	62

Subtotal 2055

052	02-02	250
	25-03	50
	25-05	50
	26-03	62

Subtotal 412

053	02-02	40
	07-02	250
	25-03	100
	25-05	70

Subtotal 460

054	25-05	100
-----	-------	-----

Subtotal 100

055	07-02	850
	25-05	200

Subtotal 1050

056	25-05	250
-----	-------	-----

Subtotal 250

057	25-03	50
	25-05	250

Subtotal 300

058	07-02	260
	25-05	90

Subtotal 350

059

25-05

100

Subtotal

100

060

02-02

1562

19-01

1780

25-05

50

Subtotal

3392

061

02-02

312

19-01

315

20-01

750

25-03

150

25-05

50

Subtotal

1577

062

25-05

300

Subtotal

300

063

25-03

100

25-05

200

Subtotal

300

064

02-02

1387

25-03

50

26-03

1812

Subtotal

3249

(13)

8918

065 25-05 150

Subtotal 150

066 25-05 150

Subtotal 150

067 07-02 120

25-05 220

Subtotal 340

068 02-02 350

19-01 525

20-01 125

25-03 150

25-05 100

26-03 62

Subtotal 1312

069 02-02 687

25-03 50

25-05 100

Subtotal 837

070 25-05 100

Subtotal 100

071 25-05 50
Subtotal 50

072 25-05 50
Subtotal 50

073 02-02 750
19-01 2300
20-01 120
25-05 400
Subtotal 3570

074 25-03 50
Subtotal 50

075 25-03 50
25-05 50
Subtotal 100

076 25-05 250
Subtotal 250

077 no wetlands observed

078	25-03	50
	25-05	150

Subtotal 200

079	02-02	2712
	19-01	2000
	20-01	798
	25-03	250
	26-03	62

Subtotal 5822

080	25-03	50
-----	-------	----

Subtotal 50

081	25-03	200
-----	-------	-----

Subtotal 200

082	25-03	150
-----	-------	-----

Subtotal 150

083	19-01	2372
	20-01	2440
	22-01	125
	25-03	460

Subtotal 5397

084	07-02	30
	19-01	1183
	20-01	307
	22-02	375
	26-03	286

Subtotal 2181

085	02-02	375
	19-01	5010
	20-01	3013
	22-02	584
	25-03	50

Subtotal 9032

086	19-01	1596
	20-01	1058
	22-02	655
	25-03	300

Subtotal 3609

087	19-01	438
	22-02	312
	25-03	150

Subtotal 900

088 25-03 300

Subtotal 300

089 02-02 780

20-01 93

25-03 100

25-05 100

26-03 156

Subtotal 1229

090 02-02 3092

20-01 1000

25-03 150

Subtotal 4242

091 07-02 968

25-03 220

25-05 40

Subtotal 1228

092 07-02 125

25-05 320

Subtotal 445

(18)

7444

093	02-02	1299
	20-01	1750
	25-03	100

Subtotal 3149

094	19-01	5999
	20-01	21250
	22-02	850

Subtotal 28099

095	19-01	2375
	20-01	8436
	26-03	125

Subtotal 10936

096	26-03	625
-----	-------	-----

Subtotal 625

097	20-01	500
-----	-------	-----

Subtotal 500

098	No wetlands observed	Big Delta
-----	----------------------	-----------

099	25-03	50
-----	-------	----

Subtotal 50

100	25-03	50	
			Subtotal 50

101	No wetlands	observed	
-----	-------------	----------	--

102	09-02	960	
	26-01	750	
			Subtotal 1710

103	25-03	150	
	26-01	125	
			Subtotal 275

104	19-01	250	
	22-02	562	
	23-12	350	
	23-13	120	
	26-01	750	
			Subtotal 2032

105	20-01	250	
	25-03	50	
			Subtotal 300

106	25-03	100	
	25-05	162	
			Subtotal 262
		(20)	4629

107 25-03 50

Subtotal 50

108 20-01 2630
25-03 100

Subtotal 2730

109 02-02 448
25-03 50

Subtotal 498

110 02-02 1125
23-11 62
26-01 1062

Subtotal 2249

111 25-01 300

Subtotal 300

112 25-01 591
25-05 50

Subtotal 641

113 25-01 175
25-05 250

Subtotal 425

114	20-01	5625
	23-13	500
	23-20	1312
	25-03	50

Subtotal 7487

115 No wetlands observed

116	19-01	1000
-----	-------	------

Subtotal 1000

117	19-01	750
	20-01	625
	25-03	150

Subtotal 1525

118	19-01	1375
	20-01	1845
	26-03	562

(Tetlin
June)

Subtotal 3782

119 No wetlands observed

120 No wetlands observed

121	25-03	100
-----	-------	-----

Subtotal 100

(22)

13894

122 25-03 50

Subtotal 50

123 25-03 50

25-05 50

Subtotal 100

124 25-03 150

Subtotal 150

125 25-03 150

25-05 50

Subtotal 200

126 02-02 2500

07-02 250

25-03 20

Subtotal 2770

127 02-02 3125

25-03 50

Subtotal 3175

128 02-02 9793

23-11 500

25-03 50

Subtotal 10343

(23)

16788

129	02-02	9992
	07-02	250
	25-03	220

Subtotal 10462

130	02-02	1875
	20-01	7500
	23-13	250
	25-03	50

Subtotal 9675

131	02-02	2000
	19-01	562
	20-01	7188
	25-03	100
	25-05	100

Subtotal 9950

Total

30087

Table Summary of unvegetated Flood plain (Type 15-00) distances (in feet) intersected by the proposed ANGTS route.

Alignment sheet	Intersected Distance (in feet)	Alignment sheet	Unvegetated Flood Plain Intersected
001	167		
030	1 470		
031 ²	970		
031 ²	1 62		
033	2300		
034	640		
037	31		
038	818		
041	2086		
047	250		
089	250		
110	375		
Total	9419		

¹ Road Route
² Tunnel Route

002	1- 01-00	5000	218 A
	2- 22-01	562	
	1- 01-00	8165	
	4- 23-03	20	
	3- 23-20	375	
	1- 01-00	2500	
	2- 22-01	375	
	1- 01-00	10940	218 A

001	01-00	4000 ✓	221 A
	01-00	2500 ✓	222 A
	22-01	875 ✓	
	01-00	4000 ✓	
	01-00	3875 ✓	
	26-01	100 ✓	
	15-00	167	
	01-00	3750 ✓	
	22-01	625 ✓	
	01-00	11675 ✓	222 A

006	1-01-00	18375	210A
	1-01-00	2250	
	2-22-01	250	210A
	1-01-00	10000	213A

005	1-01-00	5875	213A
	2-22-01	1470	
	3-25-03	20	
	1-01-00	15000	213A
	1-01-00	5000	214A

004	1-01-00	2000	214A
	3-23-20	60	
	2-22-01	1200 (Haul Road)	
	1-01-00	1187	
	1-01-00	10500	214A
	1-01-00	7875	215A
	1-01-00	2375	215A

003	1-01-00	4000	217A
	2-22-01	600	
	1-01-00	2750	
	1-01-00	4000	
	2-22-01	1625	217A
	1-01-00	12125	216A
	2-22-01	140	
	3-23-20	750	
	1-01-00	4375	216A

011	01-00	12500	203A
	01-00	17875	205A
	22-01	375 (Haul Road)	205A
010	01-00	4312	205A
	01-00	4625	204A
	22-01	560 (Haul Road)	
	23-20	62 (Haul Road)	204A
	01-00	13250	206A
009	01-00	30025	{ 206A 208A
008	01-00 }	9125	{ 208A
		3000	
		9625	
	01-00	6750	209A
007	1- 01-00	6600	209A
	2- 22-01	2250	
	2- 22-01	375	
	2- 22-01	750	
	4 25-03 (x2)	40	
	1- 01-00	9802	
	1- 01-00	3500	
	3- 23-20	125 (Haul Road)	
	1- 01-00	7062	
	3- 23-20	62 (Haul Road)	
	2- 22-01	500	210A

015	1- 02-02	3940	196A
	4- 20-01	562	1
	1- 02-02	5000	196A
	3- 09-02	125	197A
	2- 07-02	30	
	1- 02-02	1325	
	5- 25-03	50	
	5- 25-03	50	197A

014	09-02	1060	199A
	25-03	40	1
	02-02	5250	199A

013	02-02	3875	199A
	23-13	250 (Haul Road)	199A
	02-02	26550	200A
	25-03 (x4)	200	200A

012	3 02-02	8750	200A
	5- 25-03	50	
	5- 25-03 (x2)	40	
	4- 07-02	30	
	4- 07-02	100	
	6- 25-05	20	
	3 02-02	375	
	3 02-02	375	200A
	2- 02-01	13875	202A
	3 02-02	3000	202A
	2- 02-01	4440	203A
	1- 01-01	750	1
	1- 01-02	560 (4)	203A

019	02-02	1640	188A
	25-04(x3)	90	188A
	02-02	1035	190A
	25-05(x2)	60	190A

018	1 02-02	750	190A
	6 25-04	30	
	1 02-02	875	
	4 22-01	500	
	4 22-01	312	
	5 25-03	50	
	2 07-02	375	
	3 09-02	875	
	5 25-03	40	190A
	1 02-02	80	192A

017	1 02-02	23225	192A
	3 25-03	50	
	5 25-05	50	
	4 25-04	50	
	2 09-02	187	192A

016	1 02-02	26825	194A
	2 25-03	50	
	1 02-02	3725	
	2 25-03	50	194A

015	1- 02-02	4812	196A
	4- 20-01	625	
	1- 02-02	750	
	1- 02-02	625	196A

023	4 22-02	62	184A
	1-02-02	1875	
	2-09-01	280	
	4625-05	20	
	1-02-02	7625	184A
	4 22-02	750	185A
	1-02-02	250	185A

022	2-22-01	120	185A
	3-25-05	40	
	1-02-02	880	
	3-25-05	40	
	1-02-02	12875	185A
	1-02-02	435	186A

021	1-02-02	13750	186A
	1-02-02	10125	187A
	2-22-01	355	
	3-25-03	20	
	1-02-02	250	
	2-22-01	437	
	1-02-02	2250	187A

020	1 02-02	15000	187A
	1 02-02	4000	188A
	3 22-01	250	
	1 02-02	1062	
	2 09-02	90	
	1 02-02	6250	188A

026	3-22-01	940	179A
	2-02-02	250	
	2-02-02	3375	
	2-02-02	2250	179A
	2-02-02	9250	180A
	3-22-01	1200	
	1-01-00	625	
	2-02-02	1440	
	4-25-05 (x2)	100	180A
	2-02-02	655	181A
	1-01-00	1562	
	2-02-02	2250	181A

025	1-02-02	15255	181A
	2-25-05 (x1)	160	1
	1-02-02	2875	181A
	1-02-02	8125	182A

024	26-03	62	182A
	25-03	50	182A
	02-02	687	183A

023	1-02-02	802	183A
	5-25-04 (x2)	40	
	3-22-01	250	
	1-02-02	4608	
	5-25-04	20	
	2-09-01	1065	
	5-25-04	60	
	1-02-02	3500	183A

028	2- 09-01	590	177A
	3 25-05	20	
	1- 01-00	500	
	3 25-05 (x2)	100	177A
	3 25-05 (x2)	100	178A
	2- 09-01	625	
	2- 09-01	440	
	4 26-01	62	178A

027	1- 01-00	1250	178A
	3- 25-03 (x2)	100	
	1- 01-00	3093	
	2- 09-01 00	625	
	2- 09-01	1000	
	4 25-05	50	
	4 25-05 (x2)	40	
	2- 09-01	375	178A
	4 25-05 (x2)	100	179A
	1- 01-00	3200	
	1- 01-00	3250	
	4 25-05 (x2)	100	
	1- 01-00	780	
	5 26-03	400	
	1- 01-00	1250	179A

REV
031 3A

	09-02	750	173 A
(Tunnel Route)	15-00	62	1
	25-01	50	173 A

031

	15-00	460	173 A
Road Route	2 25-05 (x2)	40	
	1 09-02	187	
	2 25-05	40	
	2 25-05	50	
	2 25-05	50	173 A

030

	15-00	970	173 A
	2 25-05	20	173 A
	1 09-01	250	174 A
	15-00	500	
	1 09-01	275	
	1 09-01	1750	174 A
	2 25-05 (x2)	100	175 A
	1 09-01	2162	1
	2 25-05	20	175 A

029

	1 09-01	790	174 A
	3 25-05	20	174 A
	2 09-02	562	176 A
	1 09-01	490	1
	3 25-05	20	176 A

033	- 15-00	550	170A
	- 15-00	625	
	2- 23-11	125 (Hawl Road)	
	1- 20-01	125	
	3- 25-05	50	170A
	3- 25-05	50	171A
	- 15-00	250	
	4-26-01	62	
	4-26-01	30	
	4-26-01	120	
	4-26-01	1250	
	- 15-00	875	
	4-26-01	1125	171A

032	REV 3A	1 07-02	440	171A
		4 26-01	750	
		4 26-01	250	
		1 07-02	1000	171A
		2 09-02	1375	172A
		3 25-05 (2x50)	100	
		3 25-05 (4x50)	200	
		2 09-02	125	
		4 26-01	50	172A

032		07-02	1440	172A
		26-01	1000	
		09-02	1375	
		25-05	300	172A

(Follows road. same as above except last two entries are omitted)

038	4 26-01	62	163 A
	15-00	225	
	2- 15-04 07-02	500	163 A

037	25-01	62	164 A
	15-00	31	
	20-01	500	164 A

036	07-02	400	164 A
	25-05	20	164 A
	25-05	50	165 A

035	25-05	20	166 A
	09-02	30	166 A
	25-05	50	167 A
	07-02	6687	167 A

034	2 25-05	50	168 A
	1- 07-02	940	
	20-01	680	
	2 25-05	20	
	2 25-05 (250)	100	168 A
	- 15-00	240	170 A
	2 25-05	40	
	1- 07-02	940	
	1- 07-02	2750	
	- 15-00	400	170 A

040	4 26-01	125	158A
	2- 20-01	900	159A
	2- 20-01	1062	
	1- 02-02	4000	
	3 25-05	50	
	2- 20-01	562	
	1- 02-02	2750	159A
	1- 02-02	2105	161A
	3 25-05	20	161A

039	1 02-02	225	161A
	2 25-05 (2x50)	100	
	1 02-02	750	
	1 02-02	1125	
	1 02-02	6400	161A
	1 02-02	2875	162A
	1 02-02	750	
	1 02-02	1250	162A

038	1- 02-02	236	163A
	1- 02-02	286	
	4 26-01	90	
	15-00	375	
	2- 07-02	375	
	15-00	62	
	4 26-01	62	
	15-00	156	
	3 20-01	187	
	3 20-01	1440	163A

044	3 25-03	20	154 A
	2- 01-02	220	
	1- 02-02	750	
	1- 02-02	1062	
	1- 02-02	750	
	1- 02-02	700	154 A

043	2- 20-01	250	154 A
	3 25-03	60	156 A
	1- 02-02	970	
	3 25-03	20	
	3 25-03	50	
	1- 02-02	1312	
	3 25-03	50	156 A

042	02-02	1375	157 A
	02-02	300	
	02-02	812	157 A

041	1- 20-02 02-02	950	157 A
	1- 02-02	420	157 A
	4 25-01	62	158 A
	15-00	125	
	5 26-01	250	
	15-00	125	
	3 23-20	375	158 A How road Related
	15-00	1625	
	5 15-00	211	
	26-01	90	
	2- 07-02	312	

046	2 07-02	62	150 A
	1 02-02	125	150 A
	3 20-01	500	149 A
	1 02-02	500	
	1 02-02	250	
	3 20-01	350	
	4 25-05	30	149 A

045	1- 02-02	370	151 A
	2- 20-01	125	
	4- 25-03	20	
	1- 02-02	281	
	1- 12-01 02-02	125	
	4- 25-03	50	
	2- 20-01	500	
	1- 02-02	31	
	1- 02-02	250	
	1- 02-02	125	
	4- 25-03	50	
	1- 02-02	1000	
	1- 02-02	1125	
	3 24-11	156	
	2- 20-01	220	
	4 25-03	20	
	1- 02-02	312	
	1- 02-02	187	
	4 25-03	50	151 A
	4 25-03	50	153 A

049	25-05	50	141A
	25-05	50	145A
	25-03	50	
	02-02	150	
	25-03 (2x50)	150	145A

048	26-03	120	146A
	25-03 (2x50)	100	146A
	25-03 (2x50)	100	147A

047	1- 02-02	2625	147A
	1- 02-02	1130	
	1- 02-02	5450	
	2- 25-05	50	147A
	1- 02-02	1355	148A
	1- 02-02	2750	
	2- 25-05	50	
	1- 02-02	115	
	1- 02-02	62	
	1- 02-02	125	
	1- 02-02	250	
	1- 02-02	750	148A
	1- 25-05 02-02	500	150A
	1- 02-02	1350	
	15-00	250	
	3- 26-03	125	150A

051	3 23-20	62	141 A
	4- 25-03	50	
	4- 25-03	50	
	4- 25-03	50	
	4- 25-03	50	
	6- 26-03	62	
	4- 25-03	50	
	1- 02-02	62	
	1- 12-11 02-02	170	
	2- 07-02	187	
	4- 25-03	50	
	1- 02-02	562	
	5 25-05	20	
	5 25-05	50	
	2- 07-02	230	141 A

050	2 07-02	750	143 A
	4 25-05 (7x50)	350	
	5 26-03	62	
	4 25-05	50	
	4 25-05 (5x50)	250	143 A
	3 19-01	125	144 A
	1 12-11 02-02	375	

057 25-05 50 131 A

25-05 50 131 A

056 25-05 50 131 A

25-05 50 |

25-05 50 131 A

25-05 50 132 A

25-05 50 132 A

055 (25-05 50 133 A

25-05 50 |

25-05 50 134 A

(07-02 750 135 A

07-02 100 |

- 25-05 50

054 25-05 50

25-05 50 135 A

053 2 07-02 230 138

1 02-02 110 |

4 25-05 20

1 02-02 125

3 25-03 50

3 25-03 50

4 25-05 50 138 A

052 1 02-02 250 139 A

4 26-03 62 139 A

3 25-05 50 140 A

2 25-03 50 141 A

062	25-05	50	120 A
	25-05	50	1
	25-05	50	120 A
	25-05	50	121 A
	25-05	50	1
	25-05	50	121 A

061	3 20-01	750	121 A
	2 19-01	375	1
	4 25-03	50	
	4 25-03	50	121 A
	5 25-05	50	123 A
	4 25-05	50	1
	1 02-02	312	123 A

060	5 25-05	50	123 A
	2 19-01	1780	123 A
	1 02-02	250	125 A
	1 02-02	1312	1
	25-05	50	125 A

059	25-05	50	128 A
	25-05	50	128 A

058	25-05	50	128 A
	25-05	20	
	07-02	230	
	07-02	30	
	25-05	20	128 A

057	25-05	100	130 A
	25-03	50	131 A
	25-05	50 18	

068	4 25-03	50	109A
	5 25-05	50	110A
067	25-05	50	110A
	07-02	120	
	25-05	20	
	25-05	50	110A
	25-05	50	111A
	25-05	50	113A
066	25-05	50	113A
	25-05	50	
	25-05	50	113A
065	25-05	50	114A
	25-05	50	116A
	25-05	50	116A
064	26-03	1812	117A
YUKON RIVER			
064	02-02	562	117A
	02-02	825	
	25-03	50	
063	25-03	50	117A
	25-03	50	120A
	25-05	50	
	25-05	50	
	25-05	50	
	25-05	50	

312
325
187

073 Alignment goes off mapped corridor 102 A
appears to cross a 25-05 (included below)

1	25-05	50	102-A
	25-05	50	
	25-05	50	
3	20-01	120	
	25-05	50	
2	19-01	725	
2	19-01	1575	
1	25-05	50	
1	25-05 02-02	750	102 A

072	25-05	50	103 A
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071	25-05	50	105 A
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070	25-05	50	105 A
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	25-05	50	105 A
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069	02-02	687	107 A
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	25-03	50	107 A
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	25-05	50	108 A
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	25-05	50	108 A
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068	2-19-01	125	109 A
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	3-20-01	125	
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	5 25-05	50	
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	6 26-03	62	108 A
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	4 25-03	50	109 A
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	4 25-03	50	
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	2-19-01	400	
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	1 02-02	350	60
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079	4 25-03	50 -	88A
	4 25-03	50 -	
	2- 19-01	250	
	4 25-03	50 -	
	3-20-01	348	
	3-20-01	450	
	4 25-03	50 -	88A
	2-19-01	1750	89A

078	25-05	50	90A
	25-05	50	
	25-03	50	
	25-05	50	90A

077	no wetlands observed		90A
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076	25-05	50	93A
	25-05	50	
	25-05	50	
	25-05	50	
	25-05	50	93A

075	25-03	50	95A
	25-05	50	96A

074	25-03	50	96A
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073	25-05	50	99A
	25-05	50	
	25-05	50	99A
	25-05	50	102A

} 200

375
80
50

084	20-01	62
	26-03	100
	26-03	120

083	25-03	50
	20-01	650
	22-02	110
	20-01	1500
	20-01	62
	19-01	500
	25-03	50
	19-01	1800
	22-02	125
	25-03	62
	25-03(x2)	100
	25-03	50

4 25-03 (x6)	300
1 19-01	625
4 25-03	20
5 26-03	125
2 20-01/22-02	300
4 25-03	50
1 19-01	1560
4 25-03(x2)	40
1 19-01	187
2 20-01	1440
3 22-01	125
2 20-01	500
4 25-03	50

25
75

082	25-03	50
	25-03	50
	25-03	50

081	25-05	50
	25-03	50
	25-03	50

081	25-03	50	87A
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080	25-03	50	88A
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079	1-02-02	687	88A
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5 26-03	62
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4 25-03	50 -
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1-02-02	2025
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089	5 26-03	156	71 A
	- 15-00	250	
	4 25-05	50	
	4 25-05	50	71 A

088	25-03	50	74 A
	25-03	50	
	25-03	50	
	25-03	50	
	25-03	50	74 A
	25-03	50	75 A

087	3 25-03	50	75 A
	2 22-02	250	76 A
	2 22-02	62	
	3 25-03	50	
	1 19-01	438	
	3 25-03	50	76 A

086	1 19-01	750	76 A
	4 25-03	50	
	4 25-03	50	
	4 25-03	50	
	3 22-02	30	
	2 20-01	750	76 A
	1 19-01	96	77 A
	4 25-03	50	78 A
	1 19-01	750	
	2 20-01	121	
	2 20-01	187	
		24	

092	25-05	50	68A
2	25-05	50	
	25-05	50	
	25-05	50	
	25-05	50	68A

091	1 07-02	156	68A
	3 25-05	20	
	1 02-02	750	
	3 25-05	20	
	2 25-03	50	68A
	2 25-03	50	70A
	2 25-03	50	
	2 25-03	50	
	1 07-02	62	
	2 25-03	20	
	2 25-03	50	
			70A

090	1 02-02	562	70A
	1 02-02	93	71A
	2 20-01	1000	
	3 25-03	50	
	1 02-02	2250	
	3 25-03	50	
	3 25-03	50	
	1 12-01 02-02	187	71A

089	1 02-02	250	71A
	1 02-02	530	
	3 25-03	50	
	2 20-01	93	
	3 25-03	50	
		25	

094	2 20-01	120	61A
	1 19-01	875	
	2 20-01	1250	
	3 22-02	125	
	2 20-01	186	
	3 22-02	725	
	2 20-01	4375	
	1 19-01	500	
	2 20-01	312	
	1 19-01	1312	
	2 20-01	4250	61A
	2 20-01	2720	62A
	1 19-01	3312	62A
	2 20-01	5875	64A
	2 20-01	287	1
	2 20-01	1875	64A

093	2 20-01	125	64A
	3 25-03	50	
	2 20-01	1125	
	2 20-01	625	
	3 25-03	50	
	1 12-03 / 02-02	300	
	1 12-03 / 02-02	187	
	1 12-03 / 02-02	812	64A

092	25-05	50	68A
2 {	25-05	20	
	25-05	50	
1	07-02	125 26	

104	5 26-01	750	45A
	2 22-02	562	45A
	4 23-13	120	46A1
	3 23-12	125	46A
	3 23-12	125	47C
	1 19-01	250	1
	3 23-12	100	47C
103	25-03	50	47C
	26-01	125	47C
	25-03	50	48A
	25-03	50	48A
102	26-01	750	48A
	15-00	96	1
	209-02 209-02	960	48A
101	no wetlands observed		
100	25-03	50	52A
099	25-03	50	54A
098	no wetlands observed B16 DELTA		
097	20-01	500	58A
096	26-03	625	59A
095	3 26-03	125	60A
	2 20-01	6250	61A
	1 19-01	250	1
	2 20-01	186	
	1 19-01	625	
	2 20-01	2000	
	1 19-01	1500	

111	25-01	50		35 A
		50		
		50		
		50		
	25-01	50		35 A
	25-01	50		36 A
110	26-01	1062		36 A
	15-00	375		36 A
	23-11	62		38 A
	02-02	500		
	02-02	625		38 A
109	02-02	448		38 A
	25-03	50		40 A
108	25-03	50		41 A
	20-01	1750	($\frac{19-01}{20-01}$)	
	25-03	50		
	20-01	880	($\frac{19-01}{25-01}$)	41 A
107	25-03	50		42 A
106	25-05	50		43 A
	25-05	50		43 A
	25-05	62		44 A
	25-03	50		
	25-03	50		44 A
105	25-03	50		45 A
	20-01	250		45 A

117	19-01	750	25A
	20-01	125	25A
	20-01	500	27A
	25-03	50	
	25-03	50	
	25-03	50	
			27A
116	19-01	1000	27A
115	no wetlands	deserved	
114	3 23-20	500	31A
	3 23-20	812	
	1 20-01	4750	
	2 23-13	250	
	2 23-13	250	
	1 20-01	875	
	4 25-03	50	31A
113	25-05	50	32A
	25-05	50	
	25-05	50	
	25-05	50	
	25-05	50	
	25-01	175	32A
112	25-05	50	33A
	25-01	126	
	25-01	115	
	25-01	50	
	25-01	50	
	25-01	125	
112	25-01	125 (29)	33A

127 1 ¹²⁻⁰² 02-02 500 8A

1 12-03 02-02 500 8A

126 12-02 02-02 1250 9A

12-03 02-02 1000 9A

07-02 250 10A

25-03 20 |

02-02 250 10A

125 25-03 50 10A

25-03 50 |

25-03 50 |

25-03 50 10A

124 25-03 100 13A

124 25-03 50 14A

123 25-03 50 14A

25-03 50 15A

122 25-03 50 17A

121 25-03 50 19A

25-03 50 19A

120 — May be drainages or streams present but are not indicated on the maps refer to topo

119 may be drainages or streams present but are not identified on map refer to topo

Tetlin June

118 26-03 562 23A

118 20-01 220 23A

20-01 500 23A

19-01 250 23A

20-01 1125 24A

118 19-01 1125 24A

129	1 1203 /02-02	62	4A
	1 1203 /02-02	1500	
	1 02-02	750	4A
	1 02-02	1675	6A
	1 1203 /02-02	125	
	2 07-02	250	
	3 25-03	20	
	3 25-03	50	
	1 1203 /02-02	375	

129	1 1203 /02-02	1500	6A
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128	1 02-02	2200	6A
	1 02-02	2375	
	1 02-02	750	
	3 23-11	500	
	1 1203 /02-02	31	6A
	1 1203 /02-02	250	7A
	2 25-03	50	
	1 02-02	875	
	1 02-02	875	
	1 02-02	1875	
	1 02-02	562	7A

127	1 02-02	375	8A
	1 02-02	500	
	1 02-02	125	
	1 1203 /02-02	875	
	2 25-03	50	

127	1 1203 /02-02	250	8A
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Wetland Distances Intersected by ANGTS
 Rev #3 November 1980 Alignment
 CANADIAN BORDER

Alignment Sheet	Wetland Type	Distance Intersected (feet)	Map Number
131	5 25-05	50'	1A
	5 25-05	50	1A
	4 25-03	50	2A
	1 1201 / 02-02	1750	↓
	1 02-02	250'	
	3 20-01	438	
	2 19-01	562	
	3 20-01	4500	
	4 25-03	50	
131	3 20-01	2250	2A
130	2 20-01	6500	2A
	3 23-13	250	↓
	4 25-03	50	
	4 25-03	50	
	25-03	50	
	2 20-01	1000	
	1 02-02	625	2A
	1 02-02	1250	3A
	1 1203 / 02-02	1500	3A
129	3 25-03	50	↓
	1 02-02	1000	
	1 1203 / 02-02	130	4A
	3 25-03	50	↓
	1 02-02	1375	
	3 25-03	50	
		32	

Prepared By	Initials	Date
Approved By		

Summary by wetland Habitat Type of Distances Intersected by the Proposed AUG75 Route
(in feet)
} End of section of page

Summary by wetland Habitat Type of Distances Intersected by the Proposed AUG75 Route

Column Writer	01-00	02-01	02-02	07-02	09-01	09-02	19-01	20-01	22-01	2202	23-11	24-11	25-03	25-03	25-05	26-01	26-03
1	001	29800012	8315012	1250012	1345014	1060060	1780015	1187001	1500020	1250033	156002	045	20114	50012	20092	320001	100024
2	002	265445	30425015	30425015	1125061	1060060	1187001	1250033	937022	812110	156005	045	20114	50017	162028	162027	62027
3	003	27250	5250018	375	028	165017	187068	525033	1250033	2365084	007	007	40121	100019	60112	50032	1000047
4	004	25937	104520313	1040	029	1040018	815679	2000034	680004	1200085	012	012	90122	50022	80113	250	048
5	005	25875	305506	305506	030	4437020	90083	2372037	500065	1470086	013	013	200123	50025	20123	50	050
6	006	30625	23225034	4630	073	2300029	563085	5010038	1627006	250087	014	014	40124	150025	160125	2587051	2587051
7	007	26964	1705035	0687	084	1182031	181086	1596040	2524007	3875094	015	015	100125	150026	100131	100038	214052
8	008	28500	11975036	400	019	11975036	094	845011	375	560104	016	016	100126	30027	290040	340068	1812
9	009	30025	26375041	312	021	26375041	095	850018	812	375	017	017	50127	50028	40	750079	62
10	010	22187	26375041	312	022	26375041	095	850018	812	375	018	018	90128	50029	40	750079	62
11	011	30375	19190044	220	023	19190044	331041	750021	792	62021	037	037	20129	20030	140	125084	286
12	012	1310	18452046	62	024	18452046	960116	1000068	125022	120	041	041	50130	50031	180	750089	156
13	013	2187	1687050	750	025	1687050	545117	750072	120026	2140	111	111	100131	100032	300110	1062095	125
14	014	12825	26255051	417	026	26255051	562083	798083	125	125	112	112	180	100033	300110	715096	625
15	015	500	10470053	250	027	10470053	756131	1500	16501	16501	113	113	20	033	100	118	562
16	016	318902	572055	850	028	572055	26347084	307	307	1641	1641	1641	240	034	210	4583	
17	017	13375058	13375058	260	029	13375058	6139	3013	350	350	1641	1641	240	035	210	4583	
18	018	6750067	6750067	120	030	6750067	089	1058	350	350	1641	1641	240	036	210	4583	
19	019	1370084	1370084	30	031	1370084	089	73	350	350	1641	1641	240	037	210	4583	
20	020	2487091	2487091	968	032	2487091	089	1000	350	350	1641	1641	240	038	210	4583	
21	021	2282092	2282092	125	033	2282092	089	1750	350	350	1641	1641	240	039	210	4583	
22	022	3262126	3806129	250	034	3806129	089	8426	350	350	1641	1641	240	040	210	4583	
23	023	3806129	3806129	250	035	3806129	089	8426	350	350	1641	1641	240	041	210	4583	
24	024	687050	687050	750	036	687050	089	1375	350	350	1641	1641	240	042	210	4583	
25	025	26255051	26255051	417	037	26255051	089	1375	350	350	1641	1641	240	043	210	4583	
26	026	10470053	10470053	250	038	10470053	089	1375	350	350	1641	1641	240	044	210	4583	
27	027	572055	572055	850	039	572055	089	1375	350	350	1641	1641	240	045	210	4583	
28	028	13375058	13375058	260	040	13375058	089	1375	350	350	1641	1641	240	046	210	4583	
29	029	6750067	6750067	120	041	6750067	089	1375	350	350	1641	1641	240	047	210	4583	
30	030	1370084	1370084	30	042	1370084	089	1375	350	350	1641	1641	240	048	210	4583	
31	031	2487091	2487091	968	043	2487091	089	1375	350	350	1641	1641	240	049	210	4583	
32	032	2282092	2282092	125	044	2282092	089	1375	350	350	1641	1641	240	050	210	4583	
33	033	3262126	3806129	250	045	3806129	089	1375	350	350	1641	1641	240	051	210	4583	
34	034	3806129	3806129	250	046	3806129	089	1375	350	350	1641	1641	240	052	210	4583	
35	035	687050	687050	750	047	687050	089	1375	350	350	1641	1641	240	053	210	4583	
36	036	26255051	26255051	417	048	26255051	089	1375	350	350	1641	1641	240	054	210	4583	
37	037	10470053	10470053	250	049	10470053	089	1375	350	350	1641	1641	240	055	210	4583	
38	038	572055	572055	850	050	572055	089	1375	350	350	1641	1641	240	056	210	4583	
39	039	13375058	13375058	260	051	13375058	089	1375	350	350	1641	1641	240	057	210	4583	
40	040	6750067	6750067	120	052	6750067	089	1375	350	350	1641	1641	240	058	210	4583	
41	041	1370084	1370084	30	053	1370084	089	1375	350	350	1641	1641	240	059	210	4583	
42	042	2487091	2487091	968	054	2487091	089	1375	350	350	1641	1641	240	060	210	4583	
43	043	2282092	2282092	125	055	2282092	089	1375	350	350	1641	1641	240	061	210	4583	
44	044	3262126	3806129	250	056	3806129	089	1375	350	350	1641	1641	240	062	210	4583	
45	045	3806129	3806129	250	057	3806129	089	1375	350	350	1641	1641	240	063	210	4583	
46	046	687050	687050	750	058	687050	089	1375	350	350	1641	1641	240	064	210	4583	
47	047	26255051	26255051	417	059	26255051	089	1375	350	350	1641	1641	240	065	210	4583	
48	048	10470053	10470053	250	060	10470053	089	1375	350	350	1641	1641	240	066	210	4583	
49	049	572055	572055	850	061	572055	089	1375	350	350	1641	1641	240	067	210	4583	
50	050	13375058	13375058	260	062	13375058	089	1375	350	350	1641	1641	240	068	210	4583	

REQUISITION for COPY SERVICE and BINDING SERVICE

JOB NUMBER

10

1. Project Code

21490

2. Requester

Coul - Sp St.

3. Extension No.

472

8738

4. Description, title, or form number

Wetland Distances

8720

Table 3. Wetland Distances (in feet) Intersected by the Proposed ANGTS Route Summerized by Wetland Habitat Type.

01-00		02-01		02-02		07-02		09-01		09-02	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
001	29800	012	8315	012	12500	012	130	023	1345	014	1060
001	26545		<u>8315</u>	013	30425	015	30	027	2000	015	125
003	27250			014	5250	018	375	028	1655	017	187
004	23937			015	16452	032 ⁽²⁾	1440	029	1260	018	875
005	25875			016	30550	034	4630	030	4437	020	90
006	30625			017	23225	035	6687	073	2300	029	562
007	26964			018	1705	036	400	084	1183	031 ⁽²⁾	187
008	28500			019	11975	038	875		<u>14180</u>	032 ⁽²⁾	1375
009	30025			020	26312	041	312			035	30
010	22187			021	26375	044	220			102	<u>960</u>
011	30375			022	14190	046	62			Road	
012	1310			023	18652	050	750			Route	5451
026	2187			024	687	051	417				
027	12823			025	26255	053	250			031 ⁽³⁾	750
028	500			026	19470	055	850			032 ⁽³⁾	<u>1500</u>
	<u>318903</u>			038	572	058	260			Tunnel	
				039	13375	067	120			Route	6139
				040	6750	084	30				
				041	1370	091	968				
				042	2487	092	125				
				043	2282	126	250				
				044	3262	129	<u>250</u>				
				045	3806						
				046	875	Road					
				047	16462	Route	19431				
				049	250						
				050	375	032 ⁽³⁾	<u>1440</u>				
				051	1094	Tunnel					
				052	250	Route	19431				
				053	40						
				060	1562						
				061	312						
				064	1387						
				068	350						
				069	687						
				073	750						

(1) Haul Road Related
(2) Road Route
(3) Tunnel Route

02-02 (cont'd)

<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>
079	2712
085	375
089	780
090	3029
093	1299
109	448
110	1125
126	2500
127	3125
128	9793
129	9992
130	1875
131	2000
	<u>361437</u>

15-00		20-01		22-01		22-02		23-11		23-12	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
001	167	015	1187	001	1500	020	250	033	125	104	350
030	1470	023	250	002	937	023	812	110	62		350
031 ⁽²⁾	970	033	125	003	2365	084	375	128	500		
033	2300	034	680	004	1200	085	584		687		
034	640	037	500	005	1470	086	655				
037	31	038	1627	006	250	087	312				
038	818	040	2524	007	3875	094	850				
041	2086	043	250	010	560	104	562				
047	250	045	845	011	375		4400				
089	250	046	850	018	812						
110	375	061	750	021	792						
Road		068	125	022	120						
Route	9357	073	120	026	2140						
		079	798	083	125						
031 ⁽³⁾	60	083	2440		16521						
Tunnel		084	307								
Route	8447	085	3013								
		086	1058								
		089	93								
		090	1000								
		093	1750								
		094	21250								
		095	8436								
		097	500								
		105	250								
		108	2630								
		114	5625								
		117	625								
		118	1845								
		130	7500								
		131	7188								
			76141								

23-13		23-20		24-11		25-01		25-03		25-04	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
013	250 ⁽¹⁾	002	375	045	156	037	62	002	20	017	50
104	120	003	750		156	041	62	005	20	018	30
114	500	004	60			111	300	007	40	019	90
130	250	007	187			112	591	012	90	023	120
	1120	010	62			113	175	013	200		290
		041	375				1190	014	40		
		051	62					015	100		
		114	1312					016	100		
			3183					017	50		
								018	90		
								021	20		
								024	50		
								027	100		
								043	180		
								044	20		
								045	240		
								048	200		
								049	200		
								051	350		
								052	50		
								053	100		
								057	50		
								061	150		
								063	100		
								064	50		
								068	150		
								069	50		
								074	50		
								075	50		
								078	50		
								079	250		
								080	50		
								081	200		
								082	150		
								083	460		
								085	50		

25-05		26-01		26-03		25-03 (cont'd)	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
012	20	001	100	024	62	086	300
017	50	028	62	027	400	087	150
019	60	032 ⁽²⁾	1000	047	125	088	300
022	80	033	2587	048	120	089	100
023	20	038	214	050	62	090	150
025	160	040	125	051	62	091	220
026	100	041	340	052	62	093	100
027	290	102	750	064	1812	099	50
028	220	103	125	068	62	100	50
029	40	104	750	079	62	103	150
030	140	110	1062	084	286	105	50
031 ⁽²⁾	180	Road		089	156	106	100
032 ⁽²⁾	300	Route	7115	095	125	107	50
033	100			096	625	108	100
034	210	031 ⁽³⁾	50	118	562	109	50
035	70	032 ⁽³⁾	1050		4583	114	50
036	70	Tunnel				117	150
039	100	Route	7215			121	100
040	70					122	50
046	30					123	50
047	100					124	150
049	100					125	150
050	600					126	20
051	70					127	50
052	50					128	50
053	70					129	220
054	100					130	50
055	200					131	100
056	250						7230
057	250						
058	90						
059	100						
060	50						
061	50						
062	300						

19-01

25-05 (cont'd)

Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
		060	1780
063	200	061	315
065	150	068	525
066	150	079	2000
067	220	083	2372
068	100	085	5010
069	100	086	1596
070	100	087	438
071	50	094	5999
072	50	095	2375
073	400	104	250
075	50	116	1000
076	250	117	750
078	150	118	1375
089	100	131	562
091	40		<u>26347</u>
092	320		
106	162		
112	50		
113	250		
123	50		
125	50		
131	<u>100</u>		
Road Route	7782		
032 ⁽³⁾	<u>300</u>		
Tunnel Route	7602		

Total	
Road Route	894169
Tunnel Route	893867

25-04

<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>
017	50
018	30
019	90
023	120
	<u>290</u>

25-05

<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>
012	20
017	50
019	60
022	80
023	20
025	160
026	100
027	290
028	220
029	40
030	140
031 ⁽²⁾	180
032 ⁽²⁾	300
033	100
034	210
035	70
036	70
039	100
040	70
046	30
047	100
049	100
050	600
051	70
052	50
053	70
054	100
055	200
056	250
057	250
058	90
059	100
060	50
061	50
062	300

25-05 (cont'd)

<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>
063	200
065	150
066	150
067	220
068	100
069	100
070	100
071	50
072	50
073	400
075	50
076	250
078	150
089	100
091	40
092	320
106	162
112	50
113	250
123	50
125	50
131	100
Road Route	7782
032 ⁽³⁾	300
Tunnel Route	7602

26-01

<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>
001	100
028	62
032 ⁽²⁾	1000
033	2587
038	214
040	125
041	340
102	750
103	125
104	750
110	<u>1062</u>
Road Route	7115
031 ⁽³⁾	50
032 ⁽³⁾	<u>1050</u>
Tunnel Route	7215

26-03

<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>
024	62
027	400
047	125
048	120
050	62
051	62
052	62
064	1812
068	62
079	62
084	286
089	156
095	125
096	625
118	562
	4583

Total	
Road Route	894169
Tunnel Route	893867

23-13		23-20		24-11		25-01		25-03		25-03 (cont'd)	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
013	250 ⁽¹⁾	002	375	045	156	037	62	002	20	086	300
104	120	003	750		156	041	62	005	20	087	150
114	500	004	60			111	300	007	40	088	300
130	250	007	187			112	591	012	90	089	100
	<u>1120</u>	010	62			113	175	013	200	090	150
		041	375				1190	014	40	091	220
		051	62					015	100	093	100
		114	1312					016	100	099	50
			<u>3183</u>					017	50	100	50
								018	90	103	150
								021	20	105	50
								024	50	106	100
								027	100	107	50
								043	180	108	100
								044	20	109	50
								045	240	114	50
								048	200	117	150
								049	200	121	100
								051	350	122	50
								052	50	123	50
								053	100	124	150
								057	50	125	150
								061	150	126	20
								063	100	127	50
								064	50	128	50
								068	150	129	220
								069	50	130	50
								074	50	131	100
								075	50		<u>7230</u>
								078	50		
								079	250		
								080	50		
								081	200		
								082	150		
								083	460		
								085	50		

15-00		19-01		20-01		22-01		22-02		23-11	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
001	167	060	1780	015	1187	001	1500	020	250	033	125
030	1470	061	315	023	250	002	937	023	812	110	62
031(2)	970	068	525	033	125	003	2365	084	375	128	500
033	2300	079	2000	034	680	004	1200	085	584		687
034	640	083	2372	037	500	005	1470	086	655		
037	31	085	5010	038	1627	006	250	087	312		
038	818	086	1596	040	2524	007	3875	094	850		
041	2086	087	438	043	250	010	560	104	562		
047	250	094	5999	045	845	011	375		4400		
089	250	095	2375	046	850	018	812				
110	375	104	250	061	750	021	792				
Road		116	1000	068	125	022	120				
Route	9357	117	750	073	120	026	2140				
		118	1375	079	798	083	125				
031(3)	60	131	562	083	2440		16521				
Tunnel			26347	084	307						
Route	8447			085	3013						
				086	1058						
				089	93						
				090	1000						
				093	1750						
				094	21250						
				095	8436						
				097	500						
				105	250						
				108	2630						
				114	5625						
				117	625						
				118	1845						
				130	7500						
				131	7188						
					76141						

23-12

Alignment Sheet Number	Wetland Distance Intersected
104	350
	350

Table 3. Wetland Distances (in feet) Intersected by the Proposed ANGTS Route Summerized by Wetland Habitat Type.

01-00		02-02		02-02 (cont'd)		07-02		09-01		09-02	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
001	29800	012	12500	079	2712	012	130	023	1345	014	1060
001	26545	013	30425	085	375	015	30	027	2000	015	125
003	27250	014	5250	089	780	018	375	028	1655	017	187
004	23937	015	16452	090	3029	032 ⁽²⁾	1440	029	1260	018	875
005	25875	016	30550	093	1299	034	4630	030	4437	020	90
006	30625	017	23225	109	448	035	6687	073	2300	029	562
007	26964	018	1705	110	1125	036	400	084	1183	031 ⁽²⁾	187
008	28500	019	11975	126	2500	038	875		14180	032 ⁽²⁾	1375
009	30025	020	26312	127	3125	041	312			035	30
010	22187	021	26375	128	9793	044	220			102	960
011	30375	022	14190	129	9992	046	62			Road	
012	1310	023	18652	130	1875	050	750			Route	5451
026	2187	024	687	131	2000	051	417				
027	12823	025	26255		361437	053	250			031 ⁽³⁾	750
028	500	026	19470			055	850			032 ⁽³⁾	1500
	318903	038	572			058	260			Tunnel	
		039	13375			067	120			Route	6139
		040	6750			084	30				
		041	1370			091	968				
		042	2487			092	125				
		043	2282			126	250				
		044	3262			129	250				
		045	3806			Road					
		046	875			Route	19431				
		047	16462								
		049	250			032 ⁽³⁾	1440				
		050	375			Tunnel					
		051	1094			Route	19431				
		052	250								
		053	40								
		060	1562								
		061	312								
		064	1387								
		068	350								
		069	687								
		073	750								

(1) Haul Road Related
(2) Road Route
(3) Tunnel Route

Table 3. Wetland
~~Summary of Wetland Habitat Type~~ Distances (in feet) Intersected by the Proposed ANGTS Route *Summnerized by*
Wetland Habitat Type.

01-00		02-01		02-02		07-02		09-01		09-02	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
001	29800	012	8315	012	12500	012	130	023	1345	014	1060
001	26545		8315	013	30425	015	30	027	2000	015	125
003	27250			014	5250	018	375	028	1655	017	187
004	23937			015	16452	032(2)	1440	029	1260	018	875
005	25875			016	30550	034	4630	030	4437	020	90
006	30625			017	23225	035	6687	073	2300	029	562
007	26964			018	1705	036	400	084	1183	031(2)	187
008	28500			019	11975	041	312		14180	032(2)	1375
009	30025			020	26312	044	220			035	30
010	22187			021	26375	046	62			102	960
011	30375			022	14190	050	750			Road	
012	1310			023	18652	053	250			Route	5451
026	2187			024	687	055	850				
027	12823			025	26255	058	260			031(3)	750
028	500			026	19470	067	120			032(3)	1500
	318903			038	572	084	30			Tunnel	
				039	13375	091	968			Route	6139
				040	6750	092	125				
				041	1370	126	250				
				042	2487	129	250				
				043	2282	Road					
				044	3262	Route	19431				
				045	3806	032(3)	1440				
				046	875	Tunnel					
				047	16462	Route	19431				
				049	250						
				050	375						
				051	1094						
				052	250						
				053	40						
				060	1562						
				061	312						
				064	1387						
				068	350						
				069	687						
				073	750						

*Mike, mostly just minor things
except you forgot Type 19-01.
If its to much of a hassel to
fit it in numerical order put
it on the last page.*

Thanks

Carl

- (1) Haul Road Related
- (2) Road Route
- (3) Tunnel Route

02-02 (cont'd)

<u>Alignment Sheet Number</u>	<u>Wetland Distance Intersected</u>
079	2712
085	375
089	780
090	3029
093	1299
109	448
110	1125
126	2500
127	3125
128	9793
129	9992
130	1875
131	2000
	<u>361437</u>

25-05		26-01		26-03		25-03 (cont'd)	
Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected	Alignment Sheet Number	Wetland Distance Intersected
012	20	001	100	024	62	086	300
017	50	028	62	027	400	087	150
019	60	032(2)	1000	047	125	088	300
022	80	033	2587	048	120	089	100
023	20	038	214	050	62	090	150
025	160	040	125	051	62	091	220
026	100	041	340	052	62	093	100
027	290	102	750	064	1812	099	50
028	220	103	125	068	62	100	50
029	40	104	750	079	62	103	150
030	140	110	1062	084	286	105	50
031(2)	180	Road		089	156	106	100
032(2)	300	Route	7115	095	125	107	50
033	100			096	625	108	100
034	210	031(3)	50	118	562	109	50
035	70	032(3)	1050		4583	114	50
036	70	Tunnel				117	150
039	100	Route	7215			121	100
040	70					122	50
046	30					123	50
047	100					124	150
049	100					126	20
050	600					127	50
051	70					128	50
052	50					129	220
053	70					130	50
054	100					131	100
055	200						7230
056	250						
057	250						
058	90						
059	100						
060	50						
061	50						
062	300						

25-05 (cont'd)

Alignment Sheet Number	Wetland Distance Intersected
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063	200
065	150
066	150
067	220
068	100
069	100
070	100
071	50
072	50
073	400
075	50
076	250
078	150
089	100
091	40
092	320
106	162
112	50
113	250
123	50
125	50
131	100

Road Route	7782
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032(3)	300
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Tunnel Route	7602
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Total	
Road Route	894169
Tunnel Route	893867