

Attachment 4

Stream Crossings

NOTICE

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Attachment 4 - Stream Crossings

ASAP Stream Identifier (Rev. 5)	Stream Name	NHD Identifier	Stream Type	Anadromous	Proposed Crossing Method	Boyancy Method	Stream Width (Feet)	Bank Full Width (Feet)	Longitude	Latitude
ST_1	Name Unknown	19060401002597	Perennial Stream/River	N	open cut		96	96	-148.52682	70.30704
ST_10	Name Unknown	19060402003073	Perennial Stream/River	N	open cut	Concrete Coating	75	75	-148.76028	69.83943
ST_100	Name Unknown	19060402004646	Intermittent Stream/River	N	open cut	Concrete Coating	25	25	-149.4224	68.24338
ST_101	Name Unknown	19060402004626	Perennial Stream/River	N	open cut		175	175	-149.40918	68.22251
ST_102	Atigun River	19060402001264	Artificial Path	N	open cut		50	50	-149.41057	68.21494
ST_103	Name Unknown	19060402004550	Perennial Stream/River	N	open cut		20	20	-149.41131	68.21055
ST_104	Name Unknown	19060402004553	Perennial Stream/River	N	open cut		35	35	-149.40539	68.20269
ST_105	Name Unknown	0	Stream	N	open cut		35	35	-149.42327	68.18392
ST_106	Name Unknown	19060402004554	Intermittent Stream/River	N	open cut		15	15	-149.42427	68.18156
ST_107	Name Unknown	0	Perennial Stream/River	N	open cut		15	15	-149.42713	68.17902
ST_108	Name Unknown	19060402002225	Intermittent Stream/River	N	open cut		25	25	-149.4302	68.17728
ST_109	Name Unknown	0	Stream	N	open cut		10	10	-149.43718	68.1705
ST_11	Name Unknown	19060402003090	Perennial Stream/River	N	open cut		0	0	-148.75546	69.81001
ST_110	Name Unknown	19060402004559	Artificial Path	N	open cut		40	40	-149.43718	68.1693
ST_111	Name Unknown	0	Perennial Stream/River	N	open cut		50	50	-149.43715	68.16827
ST_112	Name Unknown	19060402004595	Intermittent Stream/River	N	open cut		15	15	-149.43407	68.16234
ST_113	Name Unknown	19060402004596	Intermittent Stream/River	N	open cut		5	5	-149.44097	68.14854
ST_114	Name Unknown	19060402004597	Intermittent Stream/River	N	open cut		2	2	-149.44382	68.1407
ST_114_1	Name Unknown	0	Perennial Stream/River	N	open cut		150	15	-149.446	68.136
ST_115	Name Unknown	19040301007574	Perennial Stream/River	N	open cut		15	15	-149.45923	68.13415
ST_116	Name Unknown	19040301007574	Perennial Stream/River	N	open cut		16	16	-149.49262	68.12747
ST_117	Name Unknown	19040301007567	Perennial Stream/River	N	open cut	Concrete Coating	15	15	-149.53756	68.11318
ST_118	Name Unknown	19040301007553	Perennial Stream/River	N	open cut		7	7	-149.54722	68.09439
ST_119	Name Unknown	19040301007552	Perennial Stream/River	N	open cut		20	20	-149.54897	68.09297
ST_12	Name Unknown	19060402003097	Perennial Stream/River	N	open cut		0	0	-148.74496	69.80268
ST_120	Name Unknown	19040301007584	Perennial Stream/River	N	open cut	Concrete Coating	7	7	-149.55474	68.08859
ST_121	Name Unknown	19040301007542	Intermittent Stream/River	N	open cut	Concrete Coating	250	250	-149.59076	68.07384
ST_122	Dietrich River	19040601000074	Perennial Stream/River	N	open cut		20	20	-149.65451	68.03628
ST_123	Dietrich River	19040601000073	Perennial Stream/River	N	open cut		0	0	-149.65535	68.0363
ST_124	Dietrich River	19040601000072	Perennial Stream/River	N	open cut	Concrete Coating	180	180	-149.65625	68.03633
ST_125	Dietrich River	19040601000072	Perennial Stream/River	N	open cut	Concrete Coating	180	180	-149.65636	68.03632
ST_126	Dietrich River	19040601000072	Perennial Stream/River	N	open cut	Concrete Coating	120	120	-149.65772	68.036
ST_127	Dietrich River	19040601000072	Perennial Stream/River	N	open cut	Concrete Coating	170	170	-149.65946	68.03559
ST_128	Name Unknown	19040601004313	Intermittent Stream/River	N	open cut	Concrete Coating	200	200	-149.6613	68.0351
ST_129	Dietrich River	19040601000071	Perennial Stream/River	N	open cut	Concrete Coating	80	80	-149.66978	68.03256
ST_13	Name Unknown	19060402003092	Perennial Stream/River	N	open cut		0	0	-148.7399	69.80024
ST_130	Dietrich River	19040601000071	Artificial Path	N	open cut	Concrete Coating	125	125	-149.67509	68.0316
ST_131	Dietrich River	19040601000071	Artificial Path	N	open cut		100	100	-149.67586	68.03153
ST_132	Dietrich River	19040601000071	Artificial Path	N	open cut	Concrete Coating	180	180	-149.67839	68.03134

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ASAP Stream Identifier (Rev. 5)	Stream Name	NHD Identifier	Stream Type	Anadromous	Proposed Crossing Method	Boyancy Method	Stream Width (Feet)	Bank Full Width (Feet)	Longitude	Latitude
ST_133	Dietrich River	19040601000071	Artificial Path	N	open cut	Concrete Coating	180	180	-149.67872	68.03131
ST_134	Dietrich River	19040601000071	Artificial Path	N	open cut	Concrete Coating	250	250	-149.68308	68.03121
ST_135	Dietrich River	19040601000071	Artificial Path	N	open cut	Concrete Coating	280	280	-149.68459	68.03118
ST_136	Dietrich River	19040601000071	Perennial Stream/River	N	open cut		80	80	-149.68953	68.03099
ST_137	Dietrich River	19040601000071	Perennial Stream/River	N	open cut	Concrete Coating	180	180	-149.69195	68.03085
ST_138	Name Unknown	19040601004323	Perennial Stream/River	N	open cut	Concrete Coating	370	370	-149.72158	68.0204
ST_139	Dietrich River	19040601000067	Perennial Stream/River	N	open cut	Concrete Coating	220	220	-149.73883	68.01175
ST_14	Name Unknown	19060402003197	Perennial Stream/River	N	open cut		30	30	-148.73081	69.79522
ST_140	Name Unknown	19040601004308	Perennial Stream/River	N	open cut	Concrete Coating	165	165	-149.7454	68.00614
ST_141	Name Unknown	19040601004306	Intermittent Stream/River	N	open cut		0	0	-149.7593	67.99307
ST_142	Name Unknown	19040601004304	Intermittent Stream/River	N	open cut		45	45	-149.76877	67.97059
ST_143	Name Unknown	19040601018025	Perennial Stream/River	N	open cut		10	10	-149.77098	67.9628
ST_144	Nutirwik Creek	19040601004266	Artificial Path	N	open cut	Concrete Coating	106	106	-149.81769	67.93472
ST_145	Name Unknown	0	Stream	N	open cut		25	25	-149.82128	67.919
ST_146	Name Unknown	0	Stream	N	open cut		20	20	-149.82121	67.91886
ST_147	Name Unknown	19040601004262	Intermittent Stream/River	N	open cut		90	90	-149.81894	67.91218
ST_148	Name Unknown	19040601004259	Intermittent Stream/River	N	open cut		30	30	-149.81733	67.9051
ST_149	Name Unknown	19040601004258	Intermittent Stream/River	N	open cut		12	12	-149.81645	67.90105
ST_15	Name Unknown	0	Stream	N	open cut	Concrete Coating	0	0	-148.71803	69.78452
ST_150	Name Unknown	19040601004254	Perennial Stream/River	N	open cut		60	60	-149.81911	67.89084
ST_151	Name Unknown	0	Stream	N	open cut		40	40	-149.82667	67.85611
ST_152	Name Unknown	19040601004227	Perennial Stream/River	N	open cut	Concrete Coating	165	165	-149.8164	67.84419
ST_153	Name Unknown	19040601004220	Intermittent Stream/River	N	open cut	Concrete Coating	115	115	-149.82611	67.8274
ST_154	Name Unknown	0	Perennial Stream/River	N	open cut		20	20	-149.82075	67.8105
ST_155	Name Unknown	0	Stream	N	open cut		20	20	-149.80568	67.79309
ST_156	Name Unknown	19040601004202	Intermittent Stream/River	N	open cut		100	100	-149.8045	67.79235
ST_157	Name Unknown	0	Stream	N	open cut		4	4	-149.79757	67.78795
ST_158	Name Unknown	19040601004197	Intermittent Stream/River	N	open cut		70	70	-149.77867	67.77579
ST_159	Name Unknown	0	Perennial Stream/River	N	open cut		80	80	-149.76734	67.76485
ST_16	Name Unknown	19060402003196	Perennial Stream/River	N	open cut	Concrete Coating	0	0	-148.71372	69.77812
ST_160	Name Unknown	19040601004190	Perennial Stream/River	N	open cut		115	115	-149.76216	67.7553
ST_161	Name Unknown	0	Stream	N	open cut	Concrete Coating	500	500	-149.75965	67.74987
ST_162	Snowden Creek	19040601004156	Perennial Stream/River	N	open cut	Concrete Coating	115	115	-149.75283	67.73759
ST_163	Name Unknown	19040601004152	Intermittent Stream/River	N	open cut		20	20	-149.74599	67.72507
ST_164	Name Unknown	19040601004144	Intermittent Stream/River	N	open cut		10	10	-149.73901	67.7157
ST_165	Name Unknown	19040601004134	Perennial Stream/River	N	open cut	Concrete Coating	110	110	-149.73151	67.69774
ST_166	Name Unknown	19040601004122	Intermittent Stream/River	N	open cut		0	0	-149.72709	67.68656
ST_167	Name Unknown	0	Stream	N	open cut		30	30	-149.72311	67.68
ST_168	Name Unknown	0	Stream	N	open cut		20	20	-149.72245	67.679

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ST_169	Name Unknown	0	Stream	N	open cut		30	30	-149.72047	67.67598
ST_17	Name Unknown	19060402003196	Perennial Stream/River	N	open cut		0	0	-148.71066	69.77357
ST_170	Name Unknown	19040601001820	Intermittent Stream/River	N	open cut		1	1	-149.71245	67.6695
ST_171	Name Unknown	19040601004092	Perennial Stream/River	N	open cut	Concrete Coating	270	270	-149.71531	67.6598
ST_172	Dietrich River	19040601000328	Artificial Path	N	open cut	Concrete Coating	215	215	-149.74068	67.64541
ST_173	Name Unknown	0	Perennial Stream/River	N	open cut		30	30	-149.75311	67.64212
ST_174	Name Unknown	0	Stream	N	open cut		20	20	-149.78387	67.62473
ST_175	Middle Fork Koyukuk River	19040601004652	Artificial Path	Y	open cut	Concrete Coating	1700	1700	-149.7847	67.61922
ST_176	Name Unknown	19040601003202	Perennial Stream/River	N	open cut	Concrete Coating	30	30	-149.78828	67.58982
ST_177	Name Unknown	0	Perennial Stream/River	N	open cut		3	3	-149.81586	67.57279
ST_178	Linda Creek	19040601003178	Perennial Stream/River	N	open cut	Concrete Coating	120	120	-149.84542	67.5196
ST_179	Gold Creek	19040601003159	Perennial Stream/River	N	open cut		40	40	-149.85119	67.51227
ST_18	Name Unknown	19060402003096	Perennial Stream/River	N	open cut	Concrete Coating	100	100	-148.69723	69.7526
ST_180	Name Unknown	0	Stream	N	open cut		10	10	-149.85695	67.50531
ST_181	Sheep Creek	19040601003158	Perennial Stream/River	N	open cut		50	50	-149.85993	67.50171
ST_182	Wolf Pup	19040601003157	Perennial Stream/River	N	open cut	Concrete Coating	240	240	-149.86537	67.4945
ST_183	Nugget Creek	19040601003146	Perennial Stream/River	N	open cut		20	20	-149.87522	67.48975
ST_184	Name Unknown	0	Stream	N	open cut		1	1	-149.94325	67.4703
ST_185	Name Unknown	19040601003142	Intermittent Stream/River	N	open cut		20	20	-149.95014	67.46907
ST_186	Name Unknown	0	Intermittent Stream/River	N	open cut		5	5	-150.00085	67.46609
ST_187	Name Unknown	0	Intermittent Stream/River	N	open cut		15	15	-150.00928	67.46354
ST_188	Name Unknown	19040601003135	Perennial Stream/River	N	open cut		85	85	-150.0191	67.46351
ST_189	Middle Fork Koyukuk River	19040601000263	Artificial Path	Y	open cut	Concrete Coating	200	200	-150.02457	67.46271
ST_19	Name Unknown	0	Stream	N	open cut		0	0	-148.69655	69.74057
ST_190	Hammond River	19040601004727	Artificial Path	Y	open cut	Concrete Coating	400	400	-150.0356	67.4611
ST_191	Middle Fork Koyukuk River	19040601000256	Perennial Stream/River	Y	open cut	Concrete Coating	480	480	-150.07929	67.43762
ST_192	Minnie Creek	19040601003047	Perennial Stream/River	Y	open cut	Concrete Coating	260	260	-150.07789	67.42028
ST_193	Name Unknown	19040601003044	Intermittent Stream/River	N	open cut		20	20	-150.09207	67.40262
ST_194	Name Unknown	0	Stream	N	open cut		20	20	-150.09421	67.40107
ST_195	Name Unknown	0	Stream	N	open cut		45	45	-150.10048	67.39271
ST_196	Name Unknown	19040601003041	Intermittent Stream/River	N	open cut		0	0	-150.11117	67.3852
ST_197	Name Unknown	0	Stream	N	open cut		75	75	-150.12131	67.37497
ST_198	Name Unknown	0	Stream	N	open cut		8	8	-150.12261	67.37399
ST_199	Name Unknown	19040601003035	Intermittent Stream/River	N	open cut		0	0	-150.12546	67.36648
ST_2	Putuligayuk River	19060401020858	Artificial Path	Y	HDD	Above Ground	205	205	-148.58711	70.27948
ST_20	Name Unknown	0	Stream	N	open cut		0	0	-148.69721	69.72926
ST_200	Name Unknown	0	Stream	N	open cut		6	6	-150.13209	67.35603
ST_201	Name Unknown	0	Stream	N	open cut		8	8	-150.13314	67.35494
ST_202	Name Unknown	19040601003026	Intermittent Stream/River	N	open cut	Concrete Coating	0	0	-150.13735	67.35042

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ST_203	Name Unknown	19040601003027	Intermittent Stream/River	N	open cut		60	60	-150.13915	67.3461
ST_204	Name Unknown	19040601003021	Intermittent Stream/River	N	open cut		1	1	-150.14942	67.33283
ST_205	Name Unknown	19040601003019	Intermittent Stream/River	N	open cut		45	45	-150.1545	67.32691
ST_206	Name Unknown	0	Intermittent Stream/River	N	open cut		0	0	-150.16142	67.32202
ST_207	Marion Creek	19040601002911	Perennial Stream/River	Y	open cut		75	75	-150.1634	67.31969
ST_208	Name Unknown	19040601002907	Intermittent Stream/River	N	open cut	Concrete Coating	100	100	-150.16684	67.3041
ST_209	Name Unknown	19040601002887	Intermittent Stream/River	N	open cut		1	1	-150.16491	67.29952
ST_21	Name Unknown	0	Perennial Stream/River	N	open cut		10	10	-148.70154	69.72657
ST_210	Name Unknown	0	Stream	N	open cut	Concrete Coating	200	200	-150.16164	67.28487
ST_211	Clara Creek	19040601002865	Perennial Stream/River	N	open cut	Concrete Coating	235	235	-150.17252	67.27176
ST_212	Name Unknown	0	Perennial Stream/River	N	open cut		30	30	-150.17266	67.26917
ST_213	Slate Creek	19040601002687	Perennial Stream/River	Y	open cut	Concrete Coating	200	200	-150.17807	67.25476
ST_214	Name Unknown	19040601002654	Intermittent Stream/River	N	open cut		0	0	-150.21684	67.23991
ST_215	Name Unknown	19040601002655	Intermittent Stream/River	N	open cut	Concrete Coating	145	145	-150.23713	67.22162
ST_216	Rosie Creek	19040601002613	Perennial Stream/River	Y	open cut		25	25	-150.28	67.19504
ST_217	Name Unknown	19040601002612	Intermittent Stream/River	N	open cut		6	6	-150.28163	67.19312
ST_218	Name Unknown	0	Stream	N	open cut		60	60	-150.29339	67.18602
ST_219	Name Unknown	0	Stream	N	open cut		30	30	-150.2976	67.18403
ST_22	Name Unknown	19060402003111	Perennial Stream/River	N	open cut		10	10	-148.70376	69.72522
ST_220	Name Unknown	0	Stream	N	open cut		35	35	-150.29991	67.18294
ST_221	Name Unknown	19040601002594	Perennial Stream/River	N	open cut		4	4	-150.3065	67.17907
ST_222	Name Unknown	19040601002591	Perennial Stream/River	N	open cut		25	25	-150.30998	67.17781
ST_223	Name Unknown	19040601002586	Perennial Stream/River	Y	open cut		40	40	-150.3444	67.16555
ST_224	Name Unknown	19040601002584	Intermittent Stream/River	N	open cut		5	5	-150.34886	67.15141
ST_225	Name Unknown	0	Perennial Stream/River	N	open cut	Concrete Coating	135	135	-150.34311	67.13017
ST_226	Name Unknown	19040601002563	Perennial Stream/River	N	open cut		25	25	-150.34352	67.11244
ST_227	Name Unknown	19040601002559	Perennial Stream/River	N	open cut		30	30	-150.34313	67.11039
ST_228	Chapman Creek	19040601002488	Perennial Stream/River	N	open cut		18	18	-150.34885	67.09671
ST_229	Name Unknown	19040601002520	Perennial Stream/River	N	open cut	Concrete Coating	300	300	-150.35009	67.08806
ST_23	Name Unknown	0	Stream	N	open cut	Concrete Coating	200	200	-148.60672	69.55183
ST_230	Name Unknown	19040601002501	Perennial Stream/River	N	open cut	Concrete Coating	613	613	-150.35041	67.07875
ST_231	Name Unknown	0	Stream	N	open cut		5	5	-150.31601	67.04439
ST_232	South Fork Koyukuk River	19040602000166	Artificial Path	Y	HDD	Concrete Coating	855	855	-150.28398	67.0183
ST_233	Name Unknown	0	Stream	N	open cut		6	6	-150.28431	67.01402
ST_234	Name Unknown	0	Perennial Stream/River	N	open cut		16	16	-150.29305	66.99874
ST_235	Name Unknown	19040602003146	Perennial Stream/River	N	open cut		40	40	-150.30447	66.9904
ST_236	Name Unknown	19040602003143	Perennial Stream/River	N	open cut		15	15	-150.32178	66.98275
ST_237	Name Unknown	0	Stream	N	open cut		20	20	-150.33804	66.97599
ST_238	Name Unknown	0	Stream	N	open cut		6	6	-150.35639	66.96836

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ST_239	Name Unknown	19040602002762	Perennial Stream/River	N	open cut		12	12	-150.36989	66.96433
ST_24	Name Unknown	19060402003245	Perennial Stream/River	N	open cut		0	0	-148.59082	69.52795
ST_240	Name Unknown	19040602002760	Perennial Stream/River	N	open cut		7	7	-150.37865	66.96258
ST_241	Name Unknown	19040602002763	Intermittent Stream/River	N	open cut		0	0	-150.40835	66.95223
ST_242	Name Unknown	19040602002764	Intermittent Stream/River	N	open cut		0	0	-150.42441	66.93173
ST_243	Name Unknown	19040602002765	Intermittent Stream/River	N	open cut	Concrete Coating	150	150	-150.42933	66.927
ST_244	Name Unknown	0	Intermittent Stream/River	N	open cut		15	15	-150.46492	66.90734
ST_245	Jim River	19040602000381	Artificial Path	Y	open cut	Concrete Coating	538	538	-150.51181	66.88253
ST_246	Name Unknown	19040602002546	Perennial Stream/River	N	open cut		1	1	-150.51055	66.87371
ST_247	Douglas Creek	19040602002524	Perennial Stream/River	Y	open cut		35	35	-150.54184	66.8581
ST_248	Name Unknown	19040602002521	Intermittent Stream/River	N	open cut		5	5	-150.56512	66.84165
ST_249	Name Unknown	19040602002513	Intermittent Stream/River	N	open cut		5	5	-150.62823	66.81883
ST_25	Name Unknown	19060402003250	Perennial Stream/River	N	open cut	Concrete Coating	0	0	-148.56924	69.49533
ST_250	Name Unknown	19040602002503	Perennial Stream/River	N	open cut		2	2	-150.63465	66.81171
ST_251	Name Unknown	19040602002506	Intermittent Stream/River	N	open cut		2	2	-150.64466	66.80412
ST_252	Name Unknown	19040602002490	Intermittent Stream/River	N	open cut		2	2	-150.6688	66.78807
ST_253	Prospect Creek	19040602002372	Perennial Stream/River	Y	open cut		90	90	-150.66685	66.77861
ST_254	Name Unknown	19040602002401	Intermittent Stream/River	N	open cut		2	2	-150.66506	66.77398
ST_255	Name Unknown	19040602001870	Perennial Stream/River	N	open cut	Concrete Coating	355	355	-150.65664	66.7164
ST_256	Name Unknown	19040602001874	Perennial Stream/River	N	open cut		75	75	-150.65378	66.71241
ST_257	North Fork Bonanza Creek	19040602001764	Perennial Stream/River	N	open cut		35	35	-150.64756	66.68251
ST_258	Bonanza Creek	19040602001621	Perennial Stream/River	N	open cut		55	55	-150.65646	66.66031
ST_259	Name Unknown	19040602001685	Perennial Stream/River	N	open cut		12	12	-150.67483	66.60984
ST_26	Name Unknown	19060402001801	Perennial Stream/River	N	open cut		50	50	-148.59985	69.45037
ST_260	Name Unknown	19040602001579	Perennial Stream/River	N	open cut		1	1	-150.71828	66.56982
ST_261	Fish Creek	19040602001487	Perennial Stream/River	N	open cut		80	80	-150.71934	66.54776
ST_262	Name Unknown	19040602001552	Perennial Stream/River	N	open cut		15	15	-150.71709	66.52501
ST_263	Name Unknown	19040602001558	Perennial Stream/River	N	open cut		17	17	-150.71205	66.50995
ST_264	Name Unknown	19040604003616	Perennial Stream/River	N	open cut		75	75	-150.65386	66.47204
ST_265	Name Unknown	19040604003617	Perennial Stream/River	N	open cut		35	35	-150.65325	66.46632
ST_266	Kanuti River	19040604000167	Artificial Path	N	open cut		65	65	-150.63069	66.44114
ST_267	Name Unknown	19040604003480	Perennial Stream/River	N	open cut		4	4	-150.55312	66.40875
ST_268	Name Unknown	19040604003486	Intermittent Stream/River	N	open cut		0	0	-150.54556	66.40592
ST_269	Name Unknown	19040604003490	Intermittent Stream/River	N	open cut		15	15	-150.54324	66.40512
ST_27	Name Unknown	19060401007896	Perennial Stream/River	N	open cut	Concrete Coating	100	100	-148.71708	69.39431
ST_270	Name Unknown	19040604003500	Intermittent Stream/River	N	open cut		70	70	-150.50934	66.38228
ST_271	Name Unknown	19040604003501	Perennial Stream/River	N	open cut	Concrete Coating	150	150	-150.50217	66.37833
ST_272	Name Unknown	19040403000286	Intermittent Stream/River	N	open cut		20	20	-150.45085	66.34092
ST_273	Name Unknown	19040403009979	Intermittent Stream/River	N	open cut		3	3	-150.44395	66.33592

Attachment 4 - Stream Crossings

ASAP Stream Identifier (Rev. 5)	Stream Name	NHD Identifier	Stream Type	Anadromous	Proposed Crossing Method	Boyancy Method	Stream Width (Feet)	Bank Full Width (Feet)	Longitude	Latitude
ST_274	Name Unknown	19040403009981	Perennial Stream/River	N	open cut	Concrete Coating	130	130	-150.4248	66.32586
ST_275	Name Unknown	19040403009991	Intermittent Stream/River	N	open cut		60	60	-150.40084	66.30686
ST_276	Name Unknown	19040403009992	Intermittent Stream/River	N	open cut		30	30	-150.39859	66.30341
ST_277	Name Unknown	19040403009986	Perennial Stream/River	N	open cut		15	15	-150.38954	66.29757
ST_278	Name Unknown	19040403009984	Intermittent Stream/River	N	open cut		60	60	-150.37617	66.2893
ST_279	Dall Creek	19040403010000	Perennial Stream/River	N	open cut		45	45	-150.34728	66.26818
ST_28	Name Unknown	19060402003294	Intermittent Stream/River	N	open cut	Concrete Coating	30	30	-148.74846	69.37623
ST_280	Name Unknown	19040403010031	Intermittent Stream/River	N	open cut		10	10	-150.3212	66.25232
ST_281	Name Unknown	0	Perennial Stream/River	N	open cut		40	40	-150.31227	66.24543
ST_282	Name Unknown	19040403010030	Intermittent Stream/River	N	open cut		15	15	-150.30946	66.24327
ST_283	Name Unknown	19040404002129	Intermittent Stream/River	N	open cut	Concrete Coating	225	225	-150.2727	66.22399
ST_284	Name Unknown	19040404002114	Intermittent Stream/River	N	open cut		0	0	-150.2267	66.20307
ST_285	Name Unknown	19040404002143	Intermittent Stream/River	N	open cut		0	0	-150.22244	66.19946
ST_286	Name Unknown	19040404002144	Intermittent Stream/River	N	open cut		0	0	-150.21599	66.19031
ST_287	Name Unknown	19040404002140	Perennial Stream/River	N	open cut		15	15	-150.2115	66.18003
ST_288	Name Unknown	19040404002000	Perennial Stream/River	N	open cut		75	75	-150.16642	66.11618
ST_289	Name Unknown	19040404001962	Perennial Stream/River	N	open cut		0	0	-150.16124	66.08774
ST_29	Name Unknown	0	Stream	N	open cut	Concrete Coating	75	75	-148.72895	69.33689
ST_290	Name Unknown	19040404001953	Perennial Stream/River	N	open cut	Concrete Coating	200	200	-150.16441	66.06994
ST_291	Name Unknown	19040404001908	Perennial Stream/River	N	open cut		20	20	-150.12953	66.02858
ST_292	Name Unknown	19040404001904	Intermittent Stream/River	N	open cut		30	30	-150.10036	66.01791
ST_293	Name Unknown	0	Stream	N	open cut		30	30	-150.06628	66.00094
ST_294	Name Unknown	19040404001903	Perennial Stream/River	N	open cut		20	20	-150.02421	65.99243
ST_295	Name Unknown	19040404001902	Perennial Stream/River	N	open cut		25	25	-149.99751	65.97584
ST_296	Name Unknown	19040404000492	Perennial Stream/River	N	open cut		20	20	-149.96358	65.96188
ST_297	Name Unknown	19040404000496	Perennial Stream/River	N	open cut		25	25	-149.91859	65.9487
ST_298	Name Unknown	0	Stream	N	open cut	Concrete Coating	115	115	-149.8713	65.93819
ST_299	Name Unknown	19040404001898	Perennial Stream/River	N	open cut		50	50	-149.85527	65.93364
ST_3	Name Unknown	19060401001424	Perennial Stream/River	Y	HDD	Concrete Coating	25	25	-148.63395	70.19985
ST_30	Name Unknown	19060402003295	Perennial Stream/River	N	open cut		35	35	-148.73162	69.3058
ST_300	Name Unknown	19040404000504	Perennial Stream/River	N	open cut		0	0	-149.78541	65.9093
ST_301	Name Unknown	19040404001888	Perennial Stream/River	N	open cut		25	25	-149.76977	65.90109
ST_302	Name Unknown	19040404001886	Perennial Stream/River	N	open cut		0	0	-149.74691	65.89158
ST_303	Yukon River	19040404000059	Artificial Path	Y	new bridge		2200	2200	-149.74255	65.87964
ST_304	Name Unknown	19040404001756	Perennial Stream/River	N	open cut		1	1	-149.53475	65.81209
ST_305	Name Unknown	19040404001755	Perennial Stream/River	N	open cut		5	5	-149.49909	65.80135
ST_306	Isom Creek	19040404001734	Perennial Stream/River	N	open cut		5	5	-149.4732	65.79699
ST_307	Name Unknown	19040404001689	Perennial Stream/River	N	open cut		13	13	-149.40487	65.76953
ST_308	Name Unknown	19040404001681	Perennial Stream/River	N	open cut		20	20	-149.36178	65.75499

Attachment 4 - Stream Crossings

ASAP Stream Identifier (Rev. 5)	Stream Name	NHD Identifier	Stream Type	Anadromous	Proposed Crossing Method	Boyancy Method	Stream Width (Feet)	Bank Full Width (Feet)	Longitude	Latitude
ST_309	Name Unknown	19040404001684	Perennial Stream/River	N	open cut		40	40	-149.33953	65.74775
ST_31	Name Unknown	19060402003355	Perennial Stream/River	N	open cut		35	35	-148.73502	69.3038
ST_310	Name Unknown	19040404001669	Perennial Stream/River	N	open cut		25	25	-149.29476	65.73172
ST_311	Name Unknown	19040404001664	Perennial Stream/River	N	open cut		0	0	-149.24837	65.71847
ST_312	Name Unknown	19040404001653	Perennial Stream/River	N	open cut		35	35	-149.20949	65.71797
ST_313	Name Unknown	19040404001656	Perennial Stream/River	N	open cut		50	50	-149.17965	65.71033
ST_314	Name Unknown	0	Stream	N	open cut		35	35	-149.10706	65.69118
ST_315	Name Unknown	19040404001627	Perennial Stream/River	N	open cut		40	40	-149.07736	65.67533
ST_316	Hess Creek	19040404000199	Artificial Path	N	open cut	Concrete Coating	300	300	-149.07409	65.67271
ST_317	Name Unknown	19040404001054	Perennial Stream/River	N	open cut		30	30	-149.07192	65.67158
ST_318	Name Unknown	19040404001072	Perennial Stream/River	N	open cut		1	1	-148.99089	65.63231
ST_319	Name Unknown	19040404001073	Perennial Stream/River	N	open cut		14	14	-148.94844	65.60877
ST_32	Name Unknown	19060402003356	Perennial Stream/River	N	open cut		7	7	-148.78246	69.22389
ST_320	Erickson Creek	19040404001070	Perennial Stream/River	N	open cut		2	2	-148.87272	65.57405
ST_321	Lost Creek	19040509003564	Perennial Stream/River	N	open cut		30	30	-148.79248	65.52281
ST_322	Name Unknown	19040509003558	Perennial Stream/River	N	open cut		1	1	-148.70589	65.49561
ST_323	Name Unknown	0	Perennial Stream/River	N	open cut		0	0	-148.68766	65.48864
ST_324	East Fork Tolovana River	19040509000248	Perennial Stream/River	Y	open cut		75	75	-148.63215	65.46175
ST_325	Name Unknown	19040509003421	Perennial Stream/River	N	open cut		10	10	-148.62419	65.45464
ST_326	Name Unknown	19040509003417	Perennial Stream/River	N	open cut		10	10	-148.61461	65.41967
ST_327	Name Unknown	19040509003411	Perennial Stream/River	N	open cut		75	75	-148.6334	65.39049
ST_328	Name Unknown	0	Perennial Stream/River	N	open cut		20	20	-148.64518	65.37978
ST_329	Name Unknown	0	Perennial Stream/River	N	open cut		10	10	-148.65055	65.37548
ST_33	Name Unknown	19060402003358	Perennial Stream/River	N	open cut		10	10	-148.80103	69.20761
ST_330	Name Unknown	19040509003410	Perennial Stream/River	N	open cut		10	10	-148.65203	65.37358
ST_331	Name Unknown	0	Perennial Stream/River	N	open cut		10	10	-148.65643	65.36439
ST_332	Name Unknown	0	Perennial Stream/River	N	open cut		10	10	-148.66003	65.34927
ST_333	Name Unknown	19040509003385	Perennial Stream/River	N	open cut		10	10	-148.6618	65.33944
ST_334	Name Unknown	19040509000574	Perennial Stream/River	N	open cut		0	0	-148.66416	65.32631
ST_335	Name Unknown	19040509000581	Perennial Stream/River	N	open cut		0	0	-148.66621	65.3149
ST_336	Name Unknown	19040509000586	Perennial Stream/River	N	open cut		0	0	-148.66734	65.30859
ST_337	Name Unknown	0	Perennial Stream/River	N	open cut		1	1	-148.66909	65.29194
ST_338	Name Unknown	0	Perennial Stream/River	N	open cut		10	10	-148.66981	65.28157
ST_339	Name Unknown	19040509000629	Perennial Stream/River	N	open cut		0	0	-148.66987	65.28083
ST_34	Name Unknown	19060402003372	Perennial Stream/River	N	open cut		0	0	-148.83586	69.17603
ST_340	Name Unknown	0	Perennial Stream/River	N	open cut		10	10	-148.68884	65.25112
ST_341	Name Unknown	19040509000693	Perennial Stream/River	N	open cut		2	2	-148.68869	65.24228
ST_342	Name Unknown	19040509003372	Perennial Stream/River	N	open cut		2	2	-148.68846	65.22732
ST_343	Name Unknown	19040509003371	Perennial Stream/River	N	open cut		2	2	-148.68842	65.225

Attachment 4 - Stream Crossings

ASAP Stream Identifier (Rev. 5)	Stream Name	NHD Identifier	Stream Type	Anadromous	Proposed Crossing Method	Boyancy Method	Stream Width (Feet)	Bank Full Width (Feet)	Longitude	Latitude
ST_344	Name Unknown	19040509003368	Perennial Stream/River	N	open cut		2	2	-148.68829	65.21713
ST_345	Name Unknown	19040509000781	Perennial Stream/River	N	open cut		5	5	-148.69568	65.19823
ST_346	Name Unknown	19040509003351	Perennial Stream/River	N	open cut		2	2	-148.70625	65.18554
ST_347	Tatalina River	19040509000323	Perennial Stream/River	N	open cut		90	90	-148.71799	65.0972
ST_348	Name Unknown	19040509002944	Perennial Stream/River	N	open cut		80	80	-148.71662	65.09157
ST_349	Name Unknown	19040509002922	Perennial Stream/River	N	open cut		50	50	-148.71333	65.08364
ST_35	Name Unknown	19060402003373	Perennial Stream/River	N	open cut	Concrete Coating	0	0	-148.83549	69.17099
ST_350	Washington Creek	19040509000384	Perennial Stream/River	N	open cut		50	50	-148.69332	65.06276
ST_351	Name Unknown	0	Perennial Stream/River	N	HDD	Concrete Coating	54	54	-148.68711	65.05831
ST_352	Chatanika River	19040509000052	Artificial Path	Y	HDD	Concrete Coating	70	70	-148.68005	64.97915
ST_353	Name Unknown	19040509001838	Perennial Stream/River	N	open cut		25	25	-148.68286	64.97118
ST_354	Name Unknown	19040509001820	Perennial Stream/River	N	open cut		0	0	-148.70088	64.93775
ST_355	Name Unknown	19040509001813	Perennial Stream/River	N	open cut		2	2	-148.70748	64.91392
ST_356	Name Unknown	19040509001812	Perennial Stream/River	N	open cut		10	10	-148.70671	64.90648
ST_357	Name Unknown	19040509001795	Perennial Stream/River	N	open cut		2	2	-148.70585	64.89808
ST_358	Name Unknown	19040509001807	Perennial Stream/River	N	open cut		55	55	-148.71628	64.87908
ST_359	Name Unknown	19040509001802	Perennial Stream/River	N	open cut		10	10	-148.73587	64.86731
ST_36	Name Unknown	19060402003374	Perennial Stream/River	Y	open cut		25	25	-148.8275	69.16029
ST_360	Name Unknown	19040509001153	Perennial Stream/River	N	open cut		2	2	-148.75957	64.85667
ST_361	Name Unknown	19040509001167	Perennial Stream/River	N	open cut		0	0	-148.77738	64.83748
ST_362	Name Unknown	19040509000448	Perennial Stream/River	N	open cut		50	50	-148.7971	64.76416
ST_363	Name Unknown	19040509001215	Perennial Stream/River	N	open cut		2	2	-148.80373	64.75401
ST_364	Little Goldstream Creek	19040511011721	Perennial Stream/River	N	open cut		8	8	-148.95034	64.6683
ST_365	Name Unknown	19040511001191	Perennial Stream/River	N	open cut		0	0	-149.03139	64.63442
ST_366	Name Unknown	19040511001206	Perennial Stream/River	N	open cut		0	0	-149.07837	64.61198
ST_367	Tanana River	19040507000002	Artificial Path	Y	HDD	Concrete Coating	300	300	-149.10543	64.56495
ST_368	Fish Creek	19040508006315	Perennial Stream/River	N	open cut		25	25	-149.08102	64.4719
ST_369	Name Unknown	19040508006327	Perennial Stream/River	N	open cut		1	1	-149.07246	64.44149
ST_37	Name Unknown	19060402003395	Perennial Stream/River	Y	HDD	Concrete Coating	25	25	-148.82921	69.15237
ST_370	Name Unknown	19040508006312	Perennial Stream/River	N	open cut	Concrete Coating	140	140	-149.0752	64.43436
ST_371	Name Unknown	0	Perennial Stream/River	N	open cut	Concrete Coating	500	500	-149.07889	64.42533
ST_372	Julius Creek	19040508006271	Perennial Stream/River	N	open cut		20	20	-149.08502	64.41372
ST_373	Glacier Creek	0	Perennial Stream/River	N	open cut		5	5	-149.10614	64.39479
ST_374	Nenana River	19040508000247	Artificial Path	Y	open cut	Concrete Coating	300	300	-149.28069	64.21813
ST_375	Name Unknown	19040508002807	Perennial Stream/River	N	open cut		0	0	-149.29721	64.21562
ST_376	Name Unknown	19040508002807	Perennial Stream/River	N	open cut		2	2	-149.29865	64.19976
ST_377	Birch Creek	19040508002836	Perennial Stream/River	N	open cut		10	10	-149.29386	64.17563
ST_378	Name Unknown	0	Perennial Stream/River	N	open cut		10	10	-149.28397	64.15601
ST_379	Bear Creek	19040508002850	Perennial Stream/River	Y	open cut		45	45	-149.25529	64.13412

Attachment 4 - Stream Crossings

ASAP Stream Identifier (Rev. 5)	Stream Name	NHD Identifier	Stream Type	Anadromous	Proposed Crossing Method	Boyancy Method	Stream Width (Feet)	Bank Full Width (Feet)	Longitude	Latitude
ST_38	Name Unknown	19060402003482	Perennial Stream/River	Y	HDD	Concrete Coating	70	70	-148.83241	69.09901
ST_380	June Creek	19040508002849	Perennial Stream/River	Y	open cut		9	9	-149.25091	64.12996
ST_381	Name Unknown	19040508002868	Perennial Stream/River	N	open cut		1	1	-149.22653	64.09123
ST_382	Rock Creek	19040508002880	Perennial Stream/River	N	open cut	Concrete Coating	90	90	-149.14359	64.03189
ST_383	Slate Creek	19040508000847	Perennial Stream/River	N	open cut		31	31	-149.12483	63.98387
ST_384	Little Panguingue Creek	19040508002889	Perennial Stream/River	Y	open cut		12	12	-149.10148	63.93508
ST_385	Panguingue Creek	19040508002892	Perennial Stream/River	Y	open cut		25	25	-149.0833	63.91505
ST_386	Dry Creek	19040508002914	Artificial Path	N	open cut	Concrete Coating	240	240	-149.03064	63.88294
ST_387	Name Unknown	19040508002962	Perennial Stream/River	N	HDD	Concrete Coating	170	170	-149.02209	63.87655
ST_388	Antler Creek	19040508002971	Perennial Stream/River	N	open cut		25	25	-148.97706	63.81548
ST_389	Name Unknown	19040508002972	Perennial Stream/River	N	open cut		12	12	-148.95413	63.80443
ST_39	Name Unknown	19060402003601	Perennial Stream/River	N	open cut		20	20	-148.81975	69.07068
ST_390	Nenana River	19040508000345	Artificial Path	Y	open cut	Concrete Coating	100	100	-148.93386	63.80045
ST_391	Coyote Creek	19040508005666	Perennial Stream/River	N	open cut		5	5	-148.92724	63.80042
ST_392	Dragonfly Creek	19040508005665	Perennial Stream/River	N	open cut		10	10	-148.92245	63.79595
ST_393	Eagle Creek	19040508005664	Perennial Stream/River	N	open cut		9	9	-148.91933	63.79047
ST_394	Fox Creek	19040508005661	Perennial Stream/River	N	open cut		25	25	-148.90933	63.78032
ST_395	Grizzly Creek	19040508005660	Perennial Stream/River	N	open cut		12	12	-148.90972	63.77539
ST_396	Hornet Creek	19040508005657	Perennial Stream/River	N	open cut		30	30	-148.90877	63.76647
ST_397	Name Unknown	19040508005656	Perennial Stream/River	N	open cut		20	20	-148.90706	63.76388
ST_398	Junco Creek	19040508005655	Perennial Stream/River	N	open cut		6	6	-148.89939	63.75027
ST_399	Kingfisher Creek	19040508005654	Perennial Stream/River	N	open cut		30	30	-148.89025	63.74046
ST_4	Name Unknown	19060402003033	Perennial Stream/River	N	open cut	Concrete Coating	0	0	-148.55518	70.09659
ST_40	Name Unknown	19060402003608	Intermittent Stream/River	N	open cut		40	40	-148.82315	69.05552
ST_400	Name Unknown	19040508005653	Perennial Stream/River	N	open cut		4	4	-148.86434	63.73332
ST_401	Montana Creek	19040508005639	Perennial Stream/River	N	open cut	Concrete Coating	690	690	-148.85995	63.72387
ST_402	Name Unknown	19040508005638	Perennial Stream/River	N	open cut		20	20	-148.84033	63.7152
ST_403	Name Unknown	19040508005634	Perennial Stream/River	N	open cut		30	30	-148.78634	63.69844
ST_404	Yanert Fork	19040508000505	Artificial Path	N	open cut	Concrete Coating	186	186	-148.77329	63.68172
ST_405	Carlo Creek	19040508005101	Perennial Stream/River	N	open cut		60	60	-148.8013	63.57013
ST_406	Name Unknown	19040508005098	Perennial Stream/River	N	open cut		20	20	-148.80422	63.54022
ST_407	Name Unknown	19040508005099	Perennial Stream/River	N	open cut		10	10	-148.80568	63.53041
ST_408	Name Unknown	19040508005099	Perennial Stream/River	N	open cut		1	1	-148.80472	63.52861
ST_409	Name Unknown	19040508005099	Perennial Stream/River	N	open cut		25	25	-148.80208	63.52363
ST_41	Name Unknown	19060402003625	Perennial Stream/River	N	open cut		3	3	-148.82626	69.01373
ST_410	Slime Creek	19040508005096	Perennial Stream/River	N	HDD	Concrete Coating	30	30	-148.8124	63.50955
ST_411	Name Unknown	19040508005093	Perennial Stream/River	N	open cut		15	15	-148.80465	63.46333
ST_412	Nenana River	19040508000393	Artificial Path	Y	open cut	Concrete Coating	300	300	-148.80439	63.45625
ST_413	Name Unknown	19040508003805	Perennial Stream/River	N	open cut		1	1	-148.81438	63.45347

Attachment 4 - Stream Crossings

ASAP Stream Identifier (Rev. 5)	Stream Name	NHD Identifier	Stream Type	Anadromous	Proposed Crossing Method	Boyancy Method	Stream Width (Feet)	Bank Full Width (Feet)	Longitude	Latitude
ST_414	Name Unknown	19040508003790	Perennial Stream/River	N	open cut		3	3	-148.88006	63.41578
ST_415	Jack River	19040508003176	Perennial Stream/River	N	HDD	Concrete Coating	102	102	-148.9085	63.3856
ST_416	Pass Creek	19040508003529	Perennial Stream/River	N	HDD	Concrete Coating	37	37	-148.94997	63.37535
ST_417	Name Unknown	0	Perennial Stream/River	N	open cut		4	4	-149.15938	63.31423
ST_418	Middle Fork Chulitna River	19020502001436	Artificial Path	Y	HDD	Concrete Coating	190	190	-149.25496	63.25096
ST_419	Fourth of July Creek	19020502001505	Perennial Stream/River	N	open cut		14	14	-149.32885	63.20573
ST_42	Name Unknown	19060402003634	Perennial Stream/River	N	open cut		110	110	-148.81605	68.99668
ST_420	East Fork Chulitna River	19020502001077	Perennial Stream/River	Y	HDD	Concrete Coating	115	115	-149.42173	63.14504
ST_421	Hardage Creek	19020502001171	Perennial Stream/River	Y-NOM	HDD	Concrete Coating	60	60	-149.44839	63.13394
ST_422	Name Unknown	19020502001165	Perennial Stream/River	N	open cut		20	20	-149.45413	63.12776
ST_423	Antimony Creek	19020502001152	Perennial Stream/River	N	HDD	Concrete Coating	27	27	-149.49335	63.10265
ST_424	Name Unknown	0	Perennial Stream/River	N	open cut		15	15	-149.49626	63.09993
ST_425	Honolulu Creek	19020502000978	Perennial Stream/River	Y	open cut	Concrete Coating	110	110	-149.54516	63.06403
ST_426	Name Unknown	19020502000977	Perennial Stream/River	Y-NOM	open cut	Concrete Coating	30	30	-149.55369	63.05869
ST_427	Little Honolulu Creek	19020502000976	Perennial Stream/River	Y	open cut		0	0	-149.57126	63.04707
ST_428	Hurricane Gultch	19020502000943	Perennial Stream/River	N	existing bridge		500	500	-149.59054	63.0144
ST_429	Granite Creek	19020502000931	Perennial Stream/River	Y	HDD	Concrete Coating	40	40	-149.63172	62.97604
ST_43	Name Unknown	0	Perennial Stream/River	N	open cut		40	40	-148.81917	68.99032
ST_430	Division Creek	19020502000925	Perennial Stream/River	Y	open cut		15	15	-149.67585	62.94125
ST_431	Name Unknown	0	Perennial Stream/River	N	open cut		35	35	-149.69611	62.92865
ST_432	Pass Creek	19020502000864	Perennial Stream/River	Y	HDD	Concrete Coating	70	70	-149.71522	62.91078
ST_433	Little Coal Creek	19020502000860	Perennial Stream/River	Y	existing bridge		269	269	-149.76423	62.88942
ST_434	Name Unknown	19020502000859	Perennial Stream/River	Y	open cut		20	20	-149.81724	62.87664
ST_435	Horseshoe Creek	19020502000835	Perennial Stream/River	Y	open cut		66	66	-149.85256	62.8677
ST_436	Byers Creek	19020502000199	Perennial Stream/River	Y	HDD	Concrete Coating	60	60	-150.2055	62.71253
ST_437	Name Unknown	19020502000734	Perennial Stream/River	N	open cut		0	0	-150.22639	62.66238
ST_438	Troublesome Creek	19020502000656	Perennial Stream/River	Y	HDD	Concrete Coating	80	80	-150.22814	62.62691
ST_439	Name Unknown	19020502000653	Perennial Stream/River	N	open cut		0	0	-150.2265	62.62297
ST_44	Name Unknown	19060402003637	Perennial Stream/River	N	open cut		35	35	-148.86138	68.96038
ST_440	Name Unknown	19020502000651	Perennial Stream/River	N	open cut		3	3	-150.22482	62.61765
ST_441	Name Unknown	19020502000652	Perennial Stream/River	Y-NOM	open cut	Concrete Coating	21	21	-150.22526	62.60753
ST_442	Name Unknown	19020502000647	Perennial Stream/River	N	open cut		0	0	-150.23677	62.60124
ST_443	Name Unknown	19020502000646	Perennial Stream/River	N	open cut		30	30	-150.23186	62.56866
ST_444	Chulitna River	19020502000021	Artificial Path	Y	existing bridge		450	450	-150.23325	62.56519
ST_445	Name Unknown	19020502003274	Perennial Stream/River	Y	open cut		75	75	-150.25874	62.509
ST_446	Name Unknown	19020502003291	Perennial Stream/River	N	open cut		0	0	-150.2687	62.50184
ST_447	Name Unknown	19020502003297	Perennial Stream/River	N	open cut		0	0	-150.27328	62.49628
ST_448	Name Unknown	19020502003294	Perennial Stream/River	Y	open cut		30	30	-150.27274	62.47447
ST_449	Name Unknown	19020502003303	Perennial Stream/River	Y	HDD	Concrete Coating	170	170	-150.2734	62.45386

Attachment 4 - Stream Crossings

ASAP Stream Identifier (Rev. 5)	Stream Name	NHD Identifier	Stream Type	Anadromous	Proposed Crossing Method	Boyancy Method	Stream Width (Feet)	Bank Full Width (Feet)	Longitude	Latitude
ST_45	Name Unknown	19060402003691	Perennial Stream/River	N	open cut	Concrete Coating	0	0	-148.86834	68.9561
ST_450	Name Unknown	19020502003322	Perennial Stream/River	Y	open cut		70	70	-150.25993	62.40349
ST_451	Name Unknown	19020502003335	Perennial Stream/River	Y	HDD	Concrete Coating	8	8	-150.26357	62.39298
ST_452	Name Unknown	0	Perennial Stream/River	Y	open cut	Concrete Coating	50	50	-150.26801	62.37937
ST_453	Name Unknown	19020505002794	Perennial Stream/River	Y	HDD	Concrete Coating	40	40	-150.25339	62.35354
ST_454	Name Unknown	0	Perennial Stream/River	N	open cut		5	5	-150.25199	62.3484
ST_455	Name Unknown	19020505002811	Perennial Stream/River	N	open cut		0	0	-150.24905	62.34
ST_456	Trapper Creek	19020505002827	Perennial Stream/River	Y	HDD	Concrete Coating	25	25	-150.24105	62.32802
ST_457	Name Unknown	19020505002885	Perennial Stream/River	Y	HDD	Concrete Coating	10	10	-150.24893	62.28548
ST_458	Name Unknown	0	Perennial Stream/River	Y-NOM	open cut	Concrete Coating	0	0	-150.24843	62.27917
ST_459	Name Unknown	0	Perennial Stream/River	Y-NOM	open cut	Concrete Coating	25	25	-150.24418	62.26964
ST_46	Name Unknown	19060402003708	Perennial Stream/River	N	open cut		46	46	-148.87698	68.92567
ST_460	Sawmill Creek	19020505002895	Perennial Stream/River	Y	open cut		85	85	-150.2532	62.24279
ST_461	Name Unknown	19020505002907	Perennial Stream/River	Y	open cut	Concrete Coating	250	250	-150.23051	62.21731
ST_462	Name Unknown	0	Perennial Stream/River	N	open cut		6	6	-150.2283	62.21532
ST_463	Queer Creek	19020505002909	Perennial Stream/River	Y	open cut		48	48	-150.21185	62.18986
ST_464	Rabideux Creek	19020505002879	Perennial Stream/River	Y	HDD	Concrete Coating	30	30	-150.21021	62.18925
ST_465	Name Unknown	19020505002878	Perennial Stream/River	Y-NOM	open cut	Concrete Coating	60	60	-150.18935	62.17571
ST_466	Susitna River	19020505000168	Artificial Path	Y	HDD	Concrete Coating	1450	1450	-150.17833	62.17266
ST_467	Name Unknown	0	Perennial Stream/River	N	open cut		9	9	-150.11702	62.16748
ST_468	Name Unknown	19020505002496	Perennial Stream/River	Y	open cut		40	40	-150.10033	62.1556
ST_469	Little Montana Creek	0	Perennial Stream/River	Y	open cut		50	50	-150.05178	62.13847
ST_47	Name Unknown	19060402003710	Perennial Stream/River	N	open cut		70	70	-148.877	68.91477
ST_470	Montana Creek	19020505002499	Perennial Stream/River	Y	HDD	Concrete Coating	87	87	-150.0603	62.10442
ST_471	Name Unknown	19020505002949	Perennial Stream/River	N	open cut		8	8	-150.06078	62.10227
ST_472	Goose Creek	19020505000446	Perennial Stream/River	Y	open cut		50	50	-150.061	62.06154
ST_473	Name Unknown	0	Perennial Stream/River	Y-NOM	open cut	Concrete Coating	10	10	-150.0606	62.04489
ST_474	Name Unknown	19020505002342	Perennial Stream/River	Y	open cut		15	15	-150.06024	62.04401
ST_475	Sheep Creek	19020505002309	Perennial Stream/River	Y	HDD	Concrete Coating	130	130	-150.05328	61.99617
ST_476	Caswell Creek	19020505002302	Perennial Stream/River	Y	open cut		60	60	-150.05581	61.94777
ST_477	Name Unknown	19020505002295	Perennial Stream/River	N	open cut		48	48	-150.07325	61.9257
ST_478	Kashwitna River	19020505000356	Artificial Path	Y	HDD	Concrete Coating	150	150	-150.07177	61.92384
ST_479	197 1/2 Mile Creek	19020505001927	Perennial Stream/River	Y	HDD	Concrete Coating	15	15	-150.07698	61.89705
ST_48	Name Unknown	19060402003724	Perennial Stream/River	N	open cut		15	15	-148.87463	68.90162
ST_480	Little Willow Creek	19020505001751	Perennial Stream/River	Y	HDD	Concrete Coating	85	85	-150.09745	61.80983
ST_481	Name Unknown	0	Stream	N	open cut		50	50	-150.06882	61.77117
ST_482	Name Unknown	19020505001691	Perennial Stream/River	N	open cut		30	30	-150.06854	61.77061
ST_483	Willow Creek	19020505001481	Artificial Path	Y	HDD	Concrete Coating	130	130	-150.06699	61.76742
ST_484	Name Unknown	19020505001476	Perennial Stream/River	Y	open cut		0	0	-150.10687	61.75866

Attachment 4 - Stream Crossings

ASAP Stream Identifier (Rev. 5)	Stream Name	NHD Identifier	Stream Type	Anadromous	Proposed Crossing Method	Boyancy Method	Stream Width (Feet)	Bank Full Width (Feet)	Longitude	Latitude
ST_485	Name Unknown	19020505001448	Perennial Stream/River	Y	open cut	Concrete Coating	220	220	-150.15597	61.73983
ST_486	Rolly Creek	19020505001420	Perennial Stream/River	Y	HDD	Concrete Coating	220	220	-150.16823	61.67682
ST_487	Name Unknown	19020505001417	Perennial Stream/River	N	open cut		15	15	-150.19912	61.65179
ST_488	Name Unknown	0	Perennial Stream/River	N	open cut		2	2	-150.22377	61.62824
ST_489	Fish Creek	19020505001227	Perennial Stream/River	Y	HDD	Concrete Coating	30	30	-150.24537	61.58511
ST_49	Name Unknown	19060402003746	Perennial Stream/River	N	open cut		5	5	-148.87423	68.89669
ST_490	Name Unknown	19020505001270	Perennial Stream/River	N	open cut	Concrete Coating	250	250	-150.23719	61.5612
ST_491	Name Unknown	0	Perennial Stream/River	N	open cut		2	2	-150.2349	61.55835
ST_492	Name Unknown	0	Perennial Stream/River	N	open cut		2	2	-150.16303	61.49034
ST_493	Little Susitna River	19020505000222	Artificial Path	Y	HDD	Concrete Coating	130	130	-150.15159	61.48793
ST_494	Name Unknown	19020505003950	Perennial Stream/River	Y	HDD	Concrete Coating	45	45	-150.12556	61.47253
ST_495	Name Unknown	19020505003940	Perennial Stream/River	Y	HDD	Concrete Coating	90	90	-150.12648	61.4414
ST_5	Name Unknown	19060402003027	Perennial Stream/River	N	open cut	Concrete Coating	0	0	-148.55386	70.0947
ST_50	Name Unknown	19060402003751	Perennial Stream/River	N	open cut		30	30	-148.87236	68.89005
ST_51	Name Unknown	19060402003762	Perennial Stream/River	N	open cut		30	30	-148.85003	68.86697
ST_52	Name Unknown	19060402003759	Perennial Stream/River	N	open cut		50	50	-148.84959	68.86671
ST_53	Name Unknown	19060402003943	Perennial Stream/River	N	open cut		40	40	-148.82588	68.84803
ST_54	Name Unknown	19060402003943	Perennial Stream/River	N	open cut		7	7	-148.8296	68.82823
ST_55	Name Unknown	19060402003952	Perennial Stream/River	N	open cut		10	10	-148.86539	68.77179
ST_56	Name Unknown	19060402003823	Perennial Stream/River	N	open cut		50	50	-149.09466	68.68916
ST_57	Name Unknown	19060401007333	Intermittent Stream/River	N	open cut		0	0	-149.18924	68.67644
ST_58	Name Unknown	19060402003830	Intermittent Stream/River	N	open cut		0	0	-149.24037	68.66653
ST_59	Name Unknown	19060401007316	Intermittent Stream/River	N	open cut		40	40	-149.30615	68.65095
ST_6	Name Unknown	19060402003028	Perennial Stream/River	N	open cut	Concrete Coating	0	0	-148.55832	70.09045
ST_60	Toolik River	19060401000586	Perennial Stream/River	N	open cut		35	35	-149.32043	68.64767
ST_61	Name Unknown	19060401005486	Perennial Stream/River	N	open cut		40	40	-149.34364	68.64273
ST_62	Kuparuk River	19060401000342	Perennial Stream/River	Y	HDD	Concrete Coating	65	65	-149.41162	68.64634
ST_63	Name Unknown	19060401005289	Intermittent Stream/River	N	open cut		0	0	-149.53124	68.60581
ST_64	Name Unknown	19060401005288	Intermittent Stream/River	N	open cut	Concrete Coating	100	100	-149.53464	68.60336
ST_65	Name Unknown	19060401005280	Intermittent Stream/River	N	open cut		8	8	-149.52836	68.59399
ST_66	Name Unknown	0	Stream	N	open cut		10	10	-149.51574	68.58259
ST_67	Name Unknown	0	Stream	N	open cut	Concrete Coating	5	5	-149.50946	68.57873
ST_68	Name Unknown	19060401005277	Intermittent Stream/River	N	open cut		1	1	-149.50819	68.57781
ST_69	Name Unknown	19060401005274	Intermittent Stream/River	N	open cut		1	1	-149.50481	68.57193
ST_7	Name Unknown	19060402003059	Perennial Stream/River	N	open cut	Concrete Coating	0	0	-148.65473	70.01841
ST_70	Name Unknown	19060401005273	Intermittent Stream/River	N	open cut		20	20	-149.50122	68.56687
ST_71	Name Unknown	19060401005272	Intermittent Stream/River	N	open cut		5	5	-149.49943	68.56434
ST_72	Name Unknown	19060401005269	Intermittent Stream/River	N	open cut		30	30	-149.48975	68.55469
ST_73	Name Unknown	19060304015327	Intermittent Stream/River	N	open cut		20	20	-149.48759	68.55065

Attachment 4 - Stream Crossings

ASAP Stream Identifier (Rev. 5)	Stream Name	NHD Identifier	Stream Type	Anadromous	Proposed Crossing Method	Boyancy Method	Stream Width (Feet)	Bank Full Width (Feet)	Longitude	Latitude
ST_74	Name Unknown	19060304012425	Intermittent Stream/River	N	open cut		2	2	-149.48019	68.54069
ST_75	Name Unknown	19060402017287	Artificial Path	N	open cut		45	45	-149.4628	68.49883
ST_76	Name Unknown	19060402004135	Intermittent Stream/River	N	open cut		0	0	-149.4526	68.48859
ST_77	Name Unknown	19060402004128	Intermittent Stream/River	N	open cut		30	30	-149.43422	68.48086
ST_78	Name Unknown	0	Stream	N	open cut		20	20	-149.42315	68.47678
ST_79	Name Unknown	19060402004127	Intermittent Stream/River	N	open cut		35	35	-149.41698	68.47451
ST_8	Name Unknown	19060402003063	Perennial Stream/River	N	open cut	Concrete Coating	0	0	-148.73493	69.95362
ST_80	Name Unknown	19060402004109	Intermittent Stream/River	N	open cut		40	40	-149.38196	68.46028
ST_81	Atigun River	19060402001183	Artificial Path	N	HDD	Concrete Coating	400	400	-149.36282	68.4514
ST_82	Name Unknown	19060402004879	Perennial Stream/River	N	open cut	Concrete Coating	700	700	-149.36371	68.44887
ST_83	Name Unknown	19060402004878	Intermittent Stream/River	N	open cut		10	10	-149.3493	68.43107
ST_84	Name Unknown	19060402004877	Intermittent Stream/River	N	open cut		0	0	-149.33536	68.41561
ST_85	Name Unknown	19060402004876	Intermittent Stream/River	N	open cut		3	3	-149.33009	68.41159
ST_86	Name Unknown	19060402004842	Perennial Stream/River	N	open cut		40	40	-149.32464	68.40659
ST_87	Name Unknown	19060402004837	Intermittent Stream/River	N	open cut		45	45	-149.32212	68.38804
ST_88	Name Unknown	19060402004764	Perennial Stream/River	N	open cut		30	30	-149.31509	68.37323
ST_89	Name Unknown	19060402004762	Intermittent Stream/River	N	open cut	Concrete Coating	0	0	-149.32665	68.35543
ST_9	Name Unknown	19060402003071	Perennial Stream/River	N	open cut	Concrete Coating	0	0	-148.76147	69.84493
ST_90	Name Unknown	19060402004761	Intermittent Stream/River	N	open cut	Concrete Coating	0	0	-149.3425	68.34296
ST_91	Name Unknown	19060402004759	Intermittent Stream/River	N	open cut	Concrete Coating	0	0	-149.34367	68.34212
ST_92	Name Unknown	19060402004751	Intermittent Stream/River	N	open cut	Concrete Coating	100	100	-149.35219	68.33074
ST_93	Name Unknown	19060402004746	Intermittent Stream/River	N	open cut		10	10	-149.35289	68.31586
ST_94	Name Unknown	19060402004744	Intermittent Stream/River	N	open cut		35	35	-149.35737	68.30894
ST_95	Name Unknown	19060402004733	Intermittent Stream/River	N	open cut	Concrete Coating	0	0	-149.36158	68.29908
ST_96	Name Unknown	19060402004686	Perennial Stream/River	N	open cut		27	27	-149.36796	68.28542
ST_97	Name Unknown	19060402004660	Perennial Stream/River	N	open cut		30	30	-149.37191	68.28384
ST_98	Name Unknown	19060402004653	Intermittent Stream/River	N	open cut	Concrete Coating	400	400	-149.38774	68.2762
ST_99	Name Unknown	19060402004658	Intermittent Stream/River	N	open cut	Concrete Coating	75	75	-149.39276	68.27268