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DATA COLLECTED ON YERRICK CREEK

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Data collected on Yerrick Creek.

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IN REPLY REFER TO:

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TN  
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ESSY  
1981

August 26, 1981

Lewis Pamplin  
Federal Inspector's Office  
Pouch 6619  
Anchorage, Alaska 99502

Dear Lew:

Enclosed is the data collected on Yerrick Creek, the one stream suggested for summer study by the Biological Working Group. Permission for access on Tanacross Native lands was granted on 27 May, allowing for access to the NWA alignment after that date. Additional data was collected during the summer season on most of the streams between Delta and the Canada border, and will be incorporated into the final report.

Methods used are those used for the spring season stream surveys. Water temperature was measured to the nearest °C with a mercury column pocket thermometer. Dissolved oxygen was measured to the nearest ppm using Hach kit chemicals. PH was measured to the nearest 0.1 pH unit using a VWR model 55 digital mini-pH meter supplied by NW-Fluor. Conductivity was measured using a YSI model 33 S-C-T meter. Bottom type, wetted width, stream depth, gradient, banks/soils, aquatic vegetation, cover, riparian vegetation and natural barriers are composite approximations determined visually within a corridor 200 m either side of Napline.

Discharge was taken from a stream reach near the NWA alignment selected for the most uniform flow and channel cross-sections free of obstructions. Depth and velocity measurement stations are in feet, measured from left to right bank waters edge. Depth was measured in feet using a wading rod with 0.1 ft divisions and velocity was measured in ft/s using a Marsh-McBirney model 201 portable current meter. Partial discharge cells between measurement stations were used to simplify calculations where unequal intervals were used. Discharge was measured near the highway during the time access to the NWA alignment was restricted.

Fish use was documented using visual observations and a variety of sampling gear including angling, seine, and electroshocker. A Smith-Root model VII Electrofisher was used for all electroshocking sampling. All fish were measured to the nearest millimeter fork length.

Sincerely,

George V. Elliott  
Fisheries Biologist

Enclosure

**ARLIS**  
Alaska Resources Library & Information Services  
Library Building, Suite 111  
3211 Providence Drive  
Anchorage, AK 99508-4614

By G. Elliott Waterbody Yerrick Creek

Date 24 April 1981 EMG-RX # 113-1

Site Access helicopter

Color/Turbidity — Temperature —

D.O. — pH — Conductivity —

Bottom Type —

Wetted width — Depth — Gradient —

Banks/Soils —

Aquatic Vegetation — Cover —

Riparian Vegetation —

Barriers —

Drainage Structures/Conditions —

Ice Conditions - see remarks

Weather —

Photographs 1-14 → downstream from NWA / 1-15 → upstream across NWA alignment.

Remarks Anteis present in active flood plain from above NWA alignment to below Ak. hwy. bridge. No flow evident from the air from NWA crossing to Tanana River.

On ground inspection at NWA alignment revealed no flowing water beneath the ice, although erosion of the bottom of the ice over the main channel (left channel) indicated flow may have been present at an earlier date.



4/24/81 Yerrick Creek (RX 113-1) looking downstream from NWA alignment (from air).



4/24/81 Yerrick Creek (RX 113-1) looking upstream across NAW alignment (from air).

By J. McDonnell & P. Bach

Waterbody Yerrick Creek

Date 12 May 1981

EMG-RX # 113-1

Transect Location ca. 275 ft. upstream from Alaska hwy. bridge

(LB/RB orientation facing upstream)

Station	Depth	Velocity	Mean Velocity	Mean Depth	Cell Width	Partial Discharge
LBWE 0	0	0				
			.275	.25	3	.21
3	.5	.55	.525	.55	2	.58
5	.6	.5	.55	.7	2	.77
7	.8	.6	.9	.85	2	1.53
9	.9	1.2	1.05	.85	2	1.79
11	.8	.9	1.1	.9	2	1.98
13	1.0	1.3	1.125	.925	2	2.08
15	.85	.95	.725	.825	2	1.20
17	.8	.5	.35	.65	2	.46
19	.5	.2	.1	.25	2	.05
RBWE 21	0	0				

Calculations checked by GE Discharge 10.7 cfs

Discharge \_\_\_\_\_ m<sup>3</sup>/s

T<sub>w</sub> = 5°C  
 Conductivity = 75 μmhos

By Bach & McDonnell

Waterbody Yerrick Creek

Date 20 May 1981

EMG-RX # 113-1

Transect Location 15 ft upstream from Alaska highway

(LB/RB orientation facing upstream)

Station	Depth	Velocity	Mean Velocity	Mean Depth	Cell Width	Partial Discharge
LBWE 4.9	0	0				
	7.0	1.05	.525	.3	2.1	.33
	8.0	1.7	1.375	.6	1.0	.83
	9.0	2.5	2.1	.7	1.0	1.47
	10.0	2.7	2.6	.8	1.0	2.08
	11.0	2.7	2.7	.75	1.0	2.03
	12.0	2.8	2.75	.85	1.0	2.34
	13.0	1.5	2.15	.95	1.0	2.04
	14.0	1.8	1.65	.8	1.0	1.32
	15.0	1.15	1.475	.7	1.0	1.03
	16.0	1.15	1.15	.7	1.0	.81
	17.0	.9	1.025	.7	1.0	.72
	18.0	.7	.8	.6	1.0	.48
RBWE 20.6	0	0	.35	.25	2.6	.23

Calculations checked by JMc

Discharge 15.7 cfs

Discharge \_\_\_\_\_ m<sup>3</sup>/s

T<sub>w</sub> = 1°C

Conductivity = 70 μmhos

Clear / no turbidity

No fish observed

5

By McDonnell & Bach

Waterbody Yerrick Creek

Date 1 June 1981

EMG-RX # 113-1

Site Access On foot from Alaska highway

Color/Turbidity colorless/clear Temperature 10°C

D.O. 10 ppm pH - Conductivity 87  $\mu$ mhos

Bottom Type Cobble, boulders, gravel

Wetted width 30-35 ft. Depth 0.6-1.1 ft Gradient moderate-steep

Banks/Soils \_\_\_\_\_

Aquatic Vegetation Absent Cover 5% (boulders)

Riparian Vegetation Spruce, Aspen, willow, alder

Barriers None

Drainage Structures/Conditions bridge at highway / good

Ice Conditions several ice remnants on banks

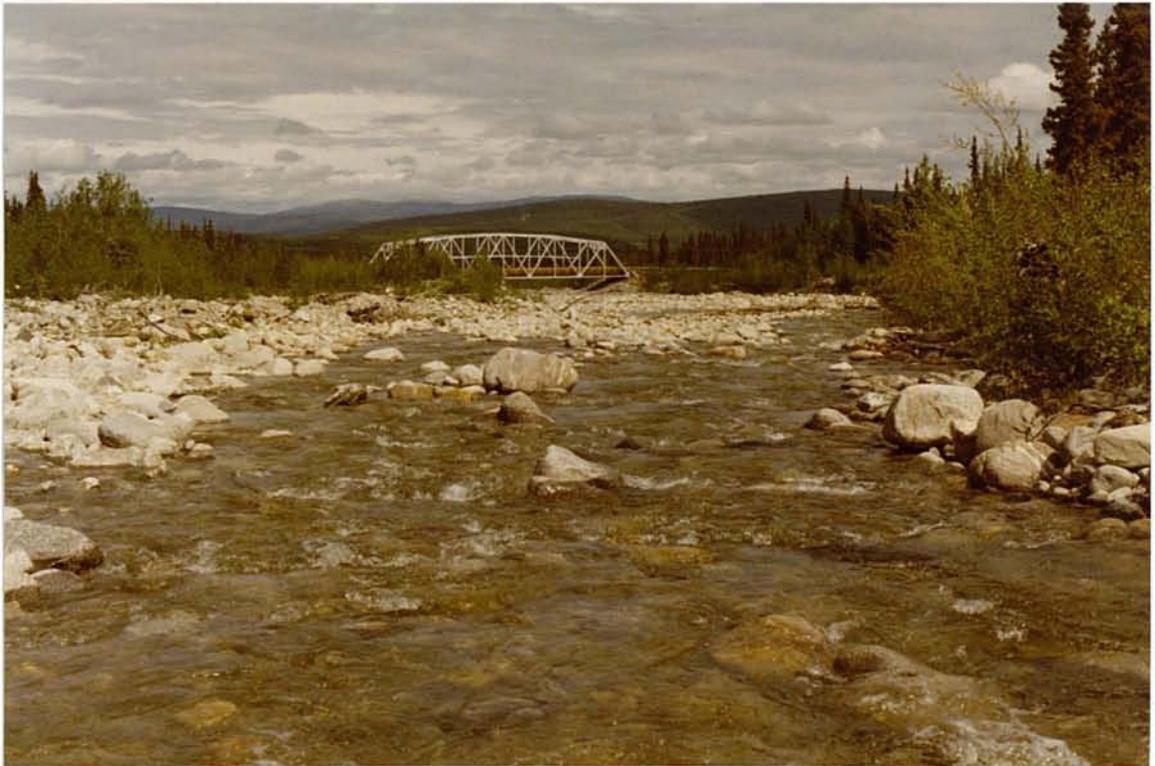
Weather Partly cloudy, warm, light wind

Photographs 4-1  $\rightarrow$  <sup>down</sup> stream betw. hwy & Napline / 4-2  $\rightarrow$  upstream betw. hwy & Napline / 4-6  $\rightarrow$  upstream across Napline (left channel) / 4-7  $\rightarrow$  upstream across Napline (right channel)

Remarks No fish observed from hwy to 1/2 mi upstream

Many pools 1.5-3 ft. deep & 1-1.5 ft. drops between boulders. No barrier to fish.

2 June 1981 - Briefly observed 2 fish ca. 1/2 mi above hwy - unable to identify.



6/1/81 - Yerrick Creek (RX 113-1) looking downstream about 1000 ft. above Alaska highway.



6/1/81 - Yerrick Creek (RX 113-1) looking upstream about 1000 ft. above Alaska highway.



6/2/81 - Yerrick Creek (RX 113-1) looking upstream across Napline (left channel).



6/2/81 - Yerrick Creek (RX 113-1) looking upstream across Napline (right channel).

By Bach & McDonnell

Waterbody Yerrick Creek

Date 1 June 1981

EMG-RX # 113-1

Transect Location ca 1/2 mi. upstream from Alaska highway

(LB/RB orientation facing upstream)

Station	Depth	Velocity	Mean Velocity	Mean Depth	Cell Width	Partial Discharge
LBWE 4.5	0	0				
	7.0	.6	.1	.3	2.5	.08
	10.0	.6	.25	.6	3.0	.45
	13.0	.65	.9	.625	3.0	1.69
	16.0	1.0	1.7	.825	3.0	4.21
	19.0	.8	1.95	.9	3.0	5.27
	21.0	.9	2.1	.85	2.0	3.57
	22.0	1.1	1.7	1.0	1.0	1.70
	24.0	1.0	1.45	1.05	2.0	3.05
	26.0	.7	1.8	.85	2.0	2.72
	28.0	.6	1.05	.65	2.0	1.37
			.3	.3	5.0	.45
RBWE 33.0	0	0				

Calculations checked by GE

Discharge 24.6 cfs

Discharge \_\_\_\_\_ m<sup>3</sup>/s



By McDonnell & BachWaterbody Yerrick CreekDate 6 & 7 June 1981EMG-RX # 113-1Section Surveyed 3 to 6 miles above Ak. hwy.Fish present/Use DV, GR / Feeding, spawningGear/Effort intermittent angling / 3 mi.

Species	Length	Remarks
GR	339mm	Ripe ♂
"	326	Ripe ♂
"	296	♀ (identified when cleaned - lunch)
"	296	
"	290	- Several DV, ca 150mm were
"	281	caught from 8-10 ft deep pool
"	256	ca. 6mi above hwy (east fork).
"	244	These fish were upstream from
"	229	a 3-4ft falls over boulders.
"	223	Possibly overwintered?
"	214	
"	214	
"	210	
DV	214mm	
"	204	
"	192	
"	189	
"	168	

By McDonnell & Bach Waterbody Yessick Creek  
Date 9 June 1981 EMG-RX # 113-1  
Site Access On foot from Alaska highway  
Color/Turbidity Colorless/clear Temperature 8.5°C  
D.O. 8 ppm pH \*\* Conductivity 58 µmhos  
Bottom Type \*  
Wetted width \_\_\_\_\_ Depth \_\_\_\_\_ Gradient \*  
Banks/Soils \*  
Aquatic Vegetation \* Cover \*  
Riparian Vegetation \*  
Barriers \*  
Drainage Structures/Conditions \*  
Ice Conditions None  
Weather Clear, warm  
Photographs -

Remarks \* See previous survey on 1 June 1981  
Stream flow high from rain during  
past week.

\*\* 19 June 1981 pH = 7.1

By McDonnell & Bach

Waterbody Yerrick Creek

Date 9 June 1981

EMG-RX # 113-1

Transect Location 30 ft. downstream from Alaska highway

(LB/RB orientation facing upstream)

channel I

Station	Depth	Velocity	Mean Velocity	Mean Depth	Cell Width	Partial Discharge
LBWE 3	0	0				
			.825	.2	2	.33
5	.4	1.65	1.475	.45	3	1.99
8	.5	1.3	2.25	.75	3	5.06
11	1.0	3.2	3.65	1.05	3	11.50
14	1.1	4.1	3.4	1.1	1	3.74
15	1.1	2.7	2.1	1.25	1	2.63
16	1.4	1.5	2.0	1.25	2	5.00
18	1.1	2.5	3.05	1.15	1	3.51
19	1.2	3.6	3.9	1.35	3	15.80
22	1.5	4.2	3.55	1.45	3	15.44
25	1.4	2.9	2.275	1.7	3	11.60
28	2.0	1.65	1.625	2.0	1	3.25
29	2.0	1.6	.925	1.5	2	2.78
31	1.0	.25	.125	.5	3.8	.24
RBWE 34.8	0	0				

Calculations checked by JM

Discharge 82.9 cfs

Discharge \_\_\_\_\_ m<sup>3</sup>/s

By McDonnell & Bach

Waterbody Yerrick Creek

Date 9 June 1981

EMG-RX # 113-1

Transect Location 30 ft upstream from Alaska highway

channel II (LB/RB orientation facing upstream)

Station	Depth	Velocity	Mean Velocity	Mean Depth	Cell Width	Partial Discharge
LBWE 20	0	0				
18	.7	.25	.125	.35	2	.09
17	.8	.85	.55	.75	1	.41
15	.8	.9	.875	.8	2	1.40
13	.8	1.1	1.0	.8	2	1.60
11	.7	.4	.75	.75	2	1.13
9	.7	1.4	.9	.7	2	1.26
7	.6	.7	1.05	.65	2	1.37
5	.3	.65	.675	.45	2	.61
3	.35	.4	.525	.325	2	.34
RBWE 0.3	0	0	.2	.175	2.7	.09

Calculations checked by JM

Discharge 8.3 cfs

Discharge \_\_\_\_\_ m<sup>3</sup>/s

By McDonnell & Bach

Waterbody Yerrick Creek

Date 17 June 1981

EMG-RX # 113-1

Section Surveyed 450ft above Aklwy. to 1200ft above Napline

Fish present/Use GR / rearing

Gear/Effort Angling / 6 man-hours

Species	Length	Remarks
GR	372mm	- No ripe fish caught.
"	329	
"	305	- Stream goes subterranean
"	305	450 ft. above hwy.
"	302	
"	284	
"	272	
"	262	
"	259	
"	241	
"	235	
"	232	
"	229	
"	229	
"	226	
"	223	
"	220	
"	217	
"	214	
"	168	
"	156	

By Kay & JohnsonWaterbody Yerrick CreekDate 1 July 1981EMG-RX # 113-1Section Surveyed AK hwy to about 1 mi above NWA alignmentFish present/Use GR / rearingGear/Effort Angling / 6 man-hours

Tw = 6°C

Species	Length	Remarks
GR	204 mm	- surface flow lost about
"	265	200 ft upstream from AK hwy
"	218	
"	216	- many more GR juveniles
"	222	seen but not captured
"	225	throughout surveyed
"	285	stream reach
"	380	
"	292	
"	212	
"	205	
"	184	- from below NWA alignment
"	260	- from above NWA alignment
"	208	
"	203	
"	189	
"	275	
"	305	
"	320	
"	165	

By Kay & Johnson

Waterbody Yerrick Creek

Date 1 July 1981

EMG-RX # 113-1

Section Surveyed continued - 2 of 2

Fish present/Use \_\_\_\_\_

Gear/Effort \_\_\_\_\_

Species	Length	Remarks
GR	238mm	- all from above NWA alignment
"	233	
"	240	
"	230	
"	257	
"	342	
"	345	
"	226	
"	215	
"	160	
"	218	
"	245	
"	262	
"	308	
"	265	
"	245	
"	229	
"	295	
"	245	
"	174	
"	208	

By Elliott, Kay & Johnson

Waterbody Yerrick Creek

Date 14 July 1981

EMG-RX # 113-1

Site Access On foot from Alaska highway

Color/Turbidity Colorless/clear Temperature 6°C (at 0830)

D.O. 11 ppm pH 6.9 Conductivity 88 umhos

Bottom Type Gravel & cobble with some sand & boulders

Wetted width 20-60 ft Depth 0.8-4 ft Gradient moderate-steep

Banks/Soils steep to vertical, 4-70 ft./sandy with gravel & cobble

Aquatic Vegetation none Cover 5%

Riparian Vegetation Willow, cottonwood, Alder, grasses, dwarf fireweed

Barriers none - see below

Drainage Structures/Conditions Ak. hwy. bridge / good

Ice Conditions none

Weather Overcast

Photographs —

Remarks Surface flow ends about 4500 ft  
downstream from Alaska highway

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By Elliott & Kay

Waterbody Yerrick Creek

Date 14 July 1981

EMG-RX # 113-1

Transect Location about 300ft downstream from NWA alignment

(LB/RB orientation facing upstream)

Station	Depth	Velocity	Mean Velocity	Mean Depth	Cell Width	Partial Discharge
LBWE 7	0	0				
14	.7	1.3	.65	.35	7	1.59
19	1.3	.1	.7	1.0	5	3.50
22	1.5	1.4	.75	1.4	3	3.15
25	1.7	3.2	2.3	1.6	3	11.04
27	2.0	3.2	3.2	1.85	2	11.84
29	2.0	2.2	2.7	2.0	2	10.80
31	1.7	2.5	2.35	1.85	2	8.70
33	1.2	2.1	2.3	1.45	2	6.67
37	.7	1.1	1.6	.95	4	6.08
43	.55	1.6	1.35	.625	6	5.06
48	.4	.8	1.2	.475	5	2.85
RBWE 54	0	0	.4	.2	6	.48

Calculations checked by GE Discharge 71.8 cfs

Discharge \_\_\_\_\_ m<sup>3</sup>/s

By Johnson & Kay

Waterbody Yerrick Creek

Date 14 July 1981

EMG-RX # 113-1

Transect Location about 500 ft. upstream from AK hwy.

(LB/RB orientation facing upstream)

Station	Depth	Velocity	Mean Velocity	Mean Depth	Cell Width	Partial Discharge
LBWE 1.6	0	0				
			.525	.3	3.4	.54
5	.6	1.05				
			1.675	.6	2	2.01
7	.6	2.3				
			3.0	.775	2	4.65
9	.95	3.7				
			2.55	.825	2	4.21
11	.7	1.4				
			1.2	.675	2	1.62
13	.65	1.0				
			2.3	.725	3	5.00
16	.8	3.6				
			3.1	.65	3	6.05
19	.5	2.6				
			2.55	.5	3	3.83
22	.5	2.5				
			2.35	.65	3	4.58
25	.8	2.2				
			1.7	.8	3	4.08
28	.8	1.2				
			2.0	.9	2	3.60
30	1.0	2.8				
			1.45	.95	2	2.76
32	.9	.1				
			.5	.625	2	.63
34	.35	.9				
			.45	.175	0.4	.03
RBWE 34.4	0	0				

Calculations checked by GE

Discharge 43.6 cfs

Discharge \_\_\_\_\_ m<sup>3</sup>/s

By Elliott, Johnson & Kay

Waterbody Yessick Creek

Date 14 July 1981

EMG-RX # 113-1

Section Surveyed 1000ft below to 1000ft above NWA alignment

Fish present/Use GR, DV / rearing

Gear/Effort Electroshocker / 2000 ft.

Species	Length	Remarks
GR	109mm	
"	125	
"	112	
"	140	
"	109	
"	185	
"	194	
"	185	
"	179	
"	122	
"	218	
"	116	
"	180	
"	115	
"	118	
"	185	
"	176	
"	171	
"	172	
DV	132mm	

By Elliott, Johnson & Kay

Waterbody Yarrick Creek

Date 14 July 1981

EMG-RX # 113-1

Section Surveyed continued - 2 of 2

Fish present/Use \_\_\_\_\_

Gear/Effort \_\_\_\_\_

Species	Length	Remarks
DV	113 mm	
"	133	
"	138	
"	115	
"	72	
"	148	
"	65	
"	66	
"	131	
"	73	
"	169	
"	120	
"	135	
"	113	



8/12/81 Yerrick Creek (RX 113-1) looking downstream about 300 ft. below NWA alignment.



8/12/81 Yerrick Creek (RX 113-1) looking upstream about 300 ft. above NWA alignment.





By Kay & Johnson

Waterbody Yerrick Creek

Date 28 July 1981

EMG-RX # 113-1

Transect Location 300 ft. downstream from NWA alignment

(LB/RB orientation facing upstream)

Station	Depth	Velocity	Mean Velocity	Mean Depth	Cell Width	Partial Discharge
LBWE 3	0	0				
			.45	.3	2	.27
5	.6	.9	.875	.6	1	.53
6	.6	.85	.525	1.05	2	1.10
8	1.5	.2	.8	1.6	1	1.28
9	1.7	1.4	1.65	1.85	1	3.05
10	2.0	1.9	2.1	2.0	1	4.20
11	2.0	2.3	2.0	1.925	1	3.85
12	1.85	1.7	1.8	1.8	1	3.24
13	1.75	1.9	2.1	1.5	1	3.15
14	1.25	2.3	2.35	1.075	2	5.05
16	.9	2.4	2.65	.95	2	5.04
18	1.0	2.9	2.9	1.05	2	6.09
20	1.1	2.9	2.6	.875	2	4.55
22	.65	2.3	1.475	.475	2	1.40
24	.3	.65	.4	.3	2	.24
26	.3	.15	.075	.15	2	.02
RBWE 28	0	0				

Calculations checked by GE

Discharge 43.1 cfs

Discharge \_\_\_\_\_ m<sup>3</sup>/s

By Kay Johnson

Waterbody Yerrick Creek

Date 28 July 1981

EMG-RX # 113-1

Section Surveyed 1000ft. below to 1000ft above NWA alignment

Fish present/Use GR, DV / rearing

Gear/Effort Electroshocker / 2000ft.

Species	Length	Remarks
GR	121mm	- all from below NWA alignment
"	175	
"	222	
"	178	
"	127	
"	121	
"	127	
"	241	
"	330	
"	303	
"	227	
"	226	
"	108	
"	141	
"	222	
"	113	
"	205	
"	227	
"	229	
"	279	

By Kay & Johnson

Waterbody Yerick Creek

Date 28 July 1981

EMG-RX # 113-1

Section Surveyed continued - 2 of 3

Fish present/Use \_\_\_\_\_

Gear/Effort \_\_\_\_\_

Species	Length	Remarks
GR	191 mm	- from below NWA alignment
"	242	
DV	117 mm	
"	127 mm	
"	165 mm	
"	138	
"	140	
"	135	
"	162	
"	171	
"	140	
GR	243 mm	- from above NWA alignment
"	178	
"	126	
"	238	
"	202	
"	181	
"	122	
DV	72 mm	

By Kay A. Johnson

Waterbody Yerick Creek

Date 28 July 1981

EMG-RX # 113-1

Section Surveyed continued - 3 of 3

Fish present/Use \_\_\_\_\_

Gear/Effort \_\_\_\_\_

Species	Length	Remarks
DV	103 mm	all from above NWA alignment
"	130	
"	137	
"	108	
"	159	
"	121	
"	149	
"	147	
"	128	
"	123	
"	76	
"	109	
"	125	
"	114	
"	126	
"	152	
"	150	
"	131	
"	109	

By Kay & Johnson

Waterbody Yerrick Creek

Date 31 July 1981

EMG-RX # 113-1

Section Surveyed from 600ft above hwy. to NWA alignment

Fish present/Use GR / rearing

Gear/Effort Angling / 6 man-hours

Species	Length	Remarks
GR	282mm	
"	238	
"	255	
"	213	
"	223	
"	233	
"	310	
"	228	
"	185	
"	211	
"	245	
"	197	
"	374	
"	194	
"	238	
"	175	
"	126	
"	232	
"	234	
"	208	
"	309	

By Elliott & Johnson Waterbody Yarrick Creek

Date 10 August 1981 EMG-RX # 113-1

Site Access On foot from Alaska highway

Color/Turbidity colorless/clear Temperature 11°C

D.O. 10 ppm pH 6.9 Conductivity 108 umhos

Bottom Type \*

Wetted width \_\_\_\_\_ Depth \_\_\_\_\_ Gradient \*

Banks/Soils \*

Aquatic Vegetation \* Cover \*

Riparian Vegetation \*

Barriers \*

Drainage Structures/Conditions \*

Ice Conditions none

Weather partly cloudy, warm

Photographs 13-7 → downstream ca 300ft. below NWA / 13-8 → upstream from NWA (left channel) / 13-9 → upstream from NWA (right channel) / 13-10 → upstream ca 500ft. above NWA / 13-11 → downstream ca 2000ft. above AK. hwy. / 13-12 → upstream 50ft. above AK. hwy.

Remarks Surface flow ends about 4500ft.

downstream from Alaska highway.

\* See previous survey on 14 July 1981

- all photographs taken 8/12/81



8/12/81 Yerrick Creek (RX 113-1) looking upstream across NWA alignment (left channel).



8/12/81 Yerrick Creek (RX 113-1) looking upstream across NWA alignment (right channel).





8/12/81 Yerrick Creek (RX 113-1) looking downstream about 2000 ft. above Alaska highway. One of deeper pools containing larger fish.



8/12/81 Yerrick Creek (RX 113-1) looking upstream 50 ft. above Alaska highway. Surface flow reduced from level at NWA alignment.

By Elliott & Kay

Waterbody Yerick Creek

Date 10 August 1981

EMG-RX # 113-1

Transect Location about 300 ft. downstream from NWA alignment

(LB/RB orientation facing upstream)

Station	Depth	Velocity	Mean Velocity	Mean Depth	Cell Width	Partial Discharge
LBWE 33.3	0	0				
			.65	.75	3.8	1.85
29.5	1.5	1.3				
			1.3	1.85	2.5	6.01
27.0	2.2	1.3				
			1.45	2.15	2.0	6.24
25.0	2.1	1.6				
			1.5	1.9	1.5	4.28
23.5	1.7	1.4				
			1.35	1.6	2.5	5.40
21.0	1.5	1.3				
			1.35	1.45	2.0	3.92
19.0	1.4	1.4				
			1.6	1.35	2.0	4.32
17.0	1.3	1.8				
			1.95	1.1	2.0	4.29
15.0	.9	2.1				
			1.25	.6	2.0	1.50
13.0	.3	.4				
			.2	.15	6.0	.18
RBWE 7.0	0	0				

Calculations checked by GE

Discharge 38.0 cfs

Discharge \_\_\_\_\_ m<sup>3</sup>/s

By Elliott Kay & JohnsonWaterbody Yerick CreekDate 10 August 1981EMG-RX # 113-1Section Surveyed 1000ft below to 1000ft above NWA alignmentFish present/Use GR, DV, RW/rearingGear/Effort Electroshocker / 2000ft

Species	Length	Remarks
GR	226mm	- from below NWA alignment
"	232	
"	146	
"	141	- one unidentified young-
"	222	of-the-year fish about 35mm,
"	128	was seen but not captured.
DV	83mm	
"	115	
"	91	
"	139	
"	124	
"	136	
"	124	
"	137	
"	126	
"	123	
GR	137mm	- from above NWA alignment
"	165	
"	128	

By Elliott Kay & Johnson

Waterbody Yessick Creek

Date 10 August 1981

EMG-RX # 113-1

Section Surveyed

continued - 2 of 3

Fish present/Use

Gear/Effort

Species	Length	Remarks
GR	177mm	- all from above NWA alignment
"	187mm	
"	129mm	
RW	207mm	
DV	139mm	
"	148	
"	126	
"	120	
"	119	
"	144	
"	136	
"	157	
"	85	
"	114	
"	174	
"	140	
"	159	
"	107	
"	149	
"	132	







By Johnson & Kay

Waterbody Yerrick Creek

Date 24 August 1981

EMG-RX # 113-1

Transect Location about 300ft downstream from NWA alignment

(LB/RB orientation facing upstream)

Station	Depth	Velocity	Mean Velocity	Mean Depth	Cell Width	Partial Discharge
LBWE 31	0	0				
			.55	.4	2	.44
29	.8	1.1	.95	.9	2	1.71
27	1.0	.8	.95	1.5	2	2.85
25	2.0	1.1	1.75	1.95	2	6.83
23	1.9	2.4	3.35	1.55	2	10.39
21	1.2	4.3	3.0	1.2	2	7.20
19	1.2	1.7	2.825	1.15	2	6.50
17	1.1	3.95	3.925	1.05	2	8.24
15	1.0	3.9	3.1	1.0	2	6.20
13	1.0	2.3	2.35	.85	2	4.00
11	.7	2.4	1.8	.6	2	2.16
9	.5	1.2	.6	.25	5	.75
RBWE 4	0	0				

Calculations checked by GE

Discharge 57.3 cfs

Discharge \_\_\_\_\_ m<sup>3</sup>/s

By Johnson & Kay

Waterbody Yerrick Creek

Date 24 August 1981

EMG-RX # 113-1

Section Surveyed 1000ft. below to 1000ft above NWA alignment

Fish present/Use GR, DV / rearing

Gear/Effort Electroshocker / 2000 ft.

Species	Length	Remarks
GR	135 mm	all from below NWA alignment
"	149	
"	132	
"	126	
"	176	
"	187	
"	297	
"	250	
"	142	
"	246	
"	142	
DV	140	
"	158	
"	141	
"	136	
"	131	
"	174	
"	144	
"	128	
"	164	

By Johnson & Kay

Waterbody Yerrick Creek

Date 24 August 1981

EMG-RX # 113-1

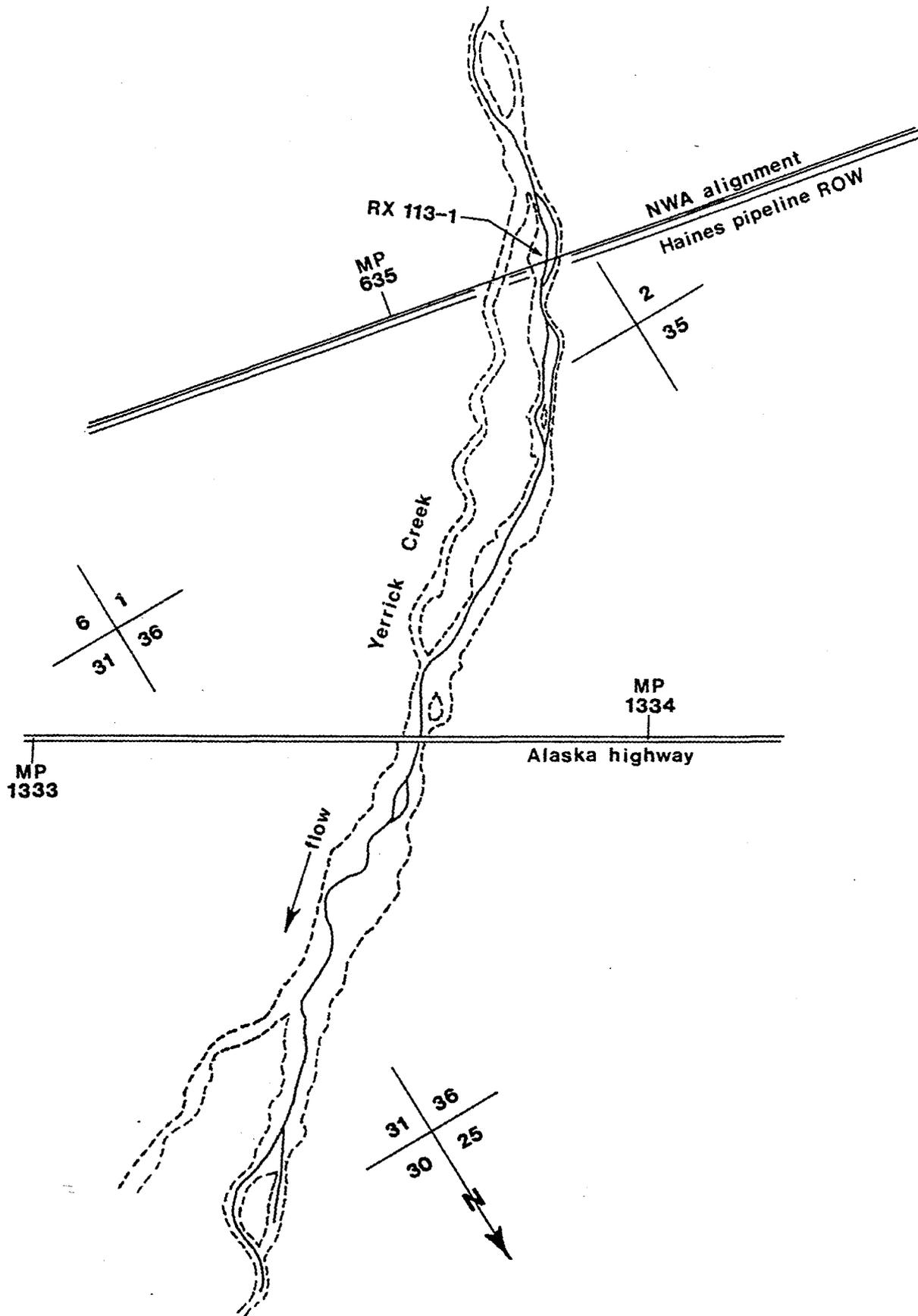
Section Surveyed continued - 2 of 3

Fish present/Use \_\_\_\_\_

Gear/Effort \_\_\_\_\_

Species	Length	Remarks
GR	165 mm	all from above NWA alignment
"	248	
"	194	
"	234	
"	197	
"	177	
"	188	
"	129	
"	195	
"	186	
DV	140 mm	
	124	
	129	
	132	
	150	
	141	
	141	
	130	
	99	
	146	





Yerrick Creek (RX 113-1). Dashed lines indicate edge of active floodplain. Solid line indicates approximate stream channels with flow showing downstream limit of surface flow on 7/14 and 8/10/81.