
Reconnaissance (1:20,000) Fish and Fish Habitat Stream Inventory of Shedin Creek

Watershed Code : 480 - 027800

Kispiox Forest District Fish and
Fish Habitat Inventory Project

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Fish Habitat Inventory Project**

Final Report

Prepared for:

Skeena Cellulose Inc.

Box 2237

Smithers, B.C.

V0J 2N0

and

Ministry of Environment, Lands and Parks

Bag 5000

Smithers, B.C.

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June 1998

Prepared by: Arne Lorenz, B.Sc.



TRITON
Environmental Consultants Ltd.

Box 88, Terrace, BC V8G 4A2

PROJECT REFERENCE INFORMATION

Project Code:	06-KISP-3068-0002-1998
Proponent:	Ministry of Environment, Lands and Parks
Inventory Program:	Forest Renewal BC (FRBC)
Contract Number:	Section of CSK 3068, Skeena Region
FRBC Project Number:	SB96120

WATERSHED INFORMATION

Stream Names:	Shedin Creek
Watershed Codes:	480 027800
TRIM maps	93M.072, 93M.073, 93M.082, 93M.083, 93M.092, 93M.093
Total Number of Reaches:	952
Number of Reaches/Sites Sampled:	73
Fish Species Present:	CH, RB, MW, DV, TSB
Biogeoclimatic Zone(s):	ESSF, AT
Survey Dates:	August 27 - September 2, 1997.
MELP Region:	Skeena Region (6)
Management Units:	6-7
Forest District:	Kispiox Forest District
Forest Licensee:	Skeena Cellulose Inc.

CONTRACTOR INFORMATION

Survey Agency:	Triton Environmental Consultants Box 88, Terrace, B.C., V8G 4A2 (250) 635-1494 C172
Project Director:	Adam Lewis, M.Sc., R.P.Bio.
Project Manager:	Arne Lorenz, B.Sc.
Field Crew:	Arne Lorenz, B.Sc., Sam Buchanan, D. Tech., Morris Shaw, Lloyd Dallyn and Chris Collins
Data Entry:	Lloyd Dallyn and Sam Buchanan, D. Tech.
Inventory Mapping:	Shannon Shields, B.A., and Michele Patterson, D. Tech.

DISCLAIMER

The Province has not accepted the contents of this product for the purposes of the Forest Practices Code, and reserves the right to dispute the validity of summarized results. The Province does not necessarily agree with the classification assigned to any individual stream reach, for use in logging plans, silviculture prescriptions or any other application.

ACKNOWLEDGMENTS

Funding for this inventory was provided by Forest Renewal BC - a partnership of forest companies, workers, environmental groups, First Nations, communities and government. Forest Renewal BC funding - from stumpage fees and royalties that forest companies pay for the right to harvest timber on Crown lands - is reinvested in the forests, forest workers and forest communities.

We would like to thank Todd Mahon, Skeena Cellulose Inc. representative who was the contract administrator and provided valuable input throughout the contract, and Paul Giroux, Fisheries Inventory Specialist, Ministry of Environment, Lands and Parks, Skeena Region, who acted as contract monitor and provided technical expertise as well as valuable input throughout the project.

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1. INTRODUCTION

1.1 Project Objectives

Triton Environmental Consultants Ltd. was contracted by the British Columbia Ministry of Environment, Lands and Parks, Fisheries Branch to conduct stream inventories in select watersheds within the Kispiox Forest District. Information was collected on biological and physical stream characteristics, fish species assemblage, and fish distribution. The purpose of the Reconnaissance (1:20 000) Fish and Fish Habitat Inventory is to describe watershed-wide fish distributions and habitat characteristics for the project area.

1.2 Study Area

The project area is within the Kispiox Forest District in northwestern central British Columbia (Figure 1). For the purposes of this contract, the project area includes 11 discrete working areas (Table 1). This report covers Working Area #1: Shedin Creek Watershed (Table 1). Shedin Creek flows southeast into the Babine River approximately 110 km north-northwest of Smithers. Access to this area was by helicopter from Hazelton, B.C..

The working area begins about 10km upstream of the confluence of Shedin Creek with the Babine River (Figure 1). This inventory completes the stream inventory of Shedin Creek. Triton (1997) completed stream inventories on the lower and upper portions of Shedin Creek in 1996. Study areas that do not overlap between the two inventory projects (Triton 1997 and this report) are not included in this years project maps.

Table 1. Watershed working areas within the Kispiox Forest District

Working Area #	Working Area	Stream Network	Watershed Code
1	Shedin Creek	Unnamed Creeks, Sperry Creek, Rosenthal Creek, Damsumlo Creek ⇒ Shedin Creek ⇒ Babine River ⇒ Skeena River ⇒ Pacific Ocean	480 027800
2	Goathead Creek	Unnamed Creeks ⇒ Goathead Creek ⇒ Shedin Creek ⇒ Babine River ⇒ Skeena River ⇒ Pacific Ocean	480 027800 11600
3	West Kitsuns Creek Tributary	Unnamed Creeks ⇒ Unnamed Creek ⇒ Kitsuns Creek ⇒ Kitsequecla River ⇒ Skeena River ⇒ Pacific Ocean	450 318200 18200 45700
4	Kitsuns Creek	Unnamed Creek ⇒ Kitsuns Creek ⇒ Kitsequecla River ⇒ Skeena River ⇒ Pacific Ocean	450 318200
5	Larkworthy Creek	Unnamed Creeks ⇒ Larkworthy Creek ⇒ Skeena River ⇒ Pacific Ocean	400 593800
6	Cranberry River Tributaries	Unnamed Creeks ⇒ Cranberry River ⇒ Nass River ⇒ Pacific Ocean	530-000000
7	Carrigan Creek Tributaries	Unnamed Creeks ⇒ Carrigan Creek ⇒ Skeena River ⇒ Pacific Ocean	400 519600
8	Skeena River Tributaries (S. of Larkworthy Cr.)	Unnamed Creeks ⇒ Skeena River ⇒ Pacific Ocean	400-
9	Deep Canoe Creek	Unnamed Creeks ⇒ Deep Canoe Creek ⇒ Skeena River ⇒ Pacific Ocean	400 574200
10	Skeena River Tributaries (S. of Sicintine R.)	Unnamed Creeks ⇒ Skeena River ⇒ Pacific Ocean	400
11	Moonlit Creek	Unnamed Creeks ⇒ Moonlit Creek ⇒ Kitwanga River ⇒ Skeena River ⇒ Pacific Ocean	400 694900 48600

1.3 Review of Existing Information

Fisheries Information Summary System (FISS) map 93M/12 indicates chinook salmon (*Oncorhynchus tshawytscha*), rainbow trout (*O. mykiss*) Dolly Varden char (*Salvelinus malma*) and mountain whitefish (*Prosopium williamsoni*) at the mouth of Shedin Creek. An 8m high by 25m long chute located 2.5 km from the mouth is noted on map 93M/12 and is the upstream limit to anadromous fish on Shedin Creek. FISS map 93M/13 indicates Dolly Varden char and rainbow trout in Shedin Creek up to the confluence with Rosenthal Creek. Dolly Varden char are shown in Sperry Creek near the confluence with Shedin Creek and rainbow trout are shown to be present in Damsumlo Lake (in contradiction with the findings of no fish in Damsumlo Lake by Triton 1997 and Degisi and Schell, 1997 as noted below). Barriers noted on Shedin Creek on FISS map 93M/13 include a 1.5m chute and 20m, 10m, 15m, 25m and 6m high rock barriers.

Triton (1997) found Dolly Varden char in Shedin Creek at 8.2 km from the mouth and in tributaries at 3.8 km, 5.5 km and 10.0 km upstream from the Babine River - Shedin Creek confluence. No fish were found upstream of a 15m waterfall on Shedin Creek approximately 29.3 km upstream of the confluence with the Babine River or in inlet streams to Damsumlo Lake. Degisi and Schell (1997) found no fish in Damsumlo Lake or its major inlets streams or the outlet stream.

2. METHODS

Standard methodology as outlined in Reconnaissance (1:20 000) Fish and Fish Habitat Inventory: Standards and Procedures (RIC 1997) for performing stream inventories were followed. The reconnaissance level fish and fish habitat inventory is a sample-based survey covering whole watersheds as defined from 1:20,000 scale maps and air photos. The project includes 6 phases as listed below:

- Phase 1: Data Review: A review of all available background information was completed. All known fisheries information is summarized in this report; new data were transcribed onto the 1:20,000 TRIM maps, and 1:50,000 NTS maps to update Fisheries Information Summary System (FISS) database (DFO).
- Phase 2: Classification and Sampling Design: A comprehensive map and air photo review was completed for all waterbodies identified on 1:20,000 TRIM maps. Reach characteristics (gradient, order, pattern, confinement) were recorded for all streams within the project area and recorded on the Reach Table (RIC, 1997). The Reach Table was used to generate a sample size (a subset of

reaches to be sampled) within the working area based on RIC guidelines. The Reach Totals and Sample Size Sheet (RIC, 1997) was generated which provides a summary of the number of reaches of each type (based on gradient class, size and pattern/confinement) to be sampled. Detailed Reach Forms were completed for selected reaches to be sampled.

- Phase 3: Project Plan: A field sampling plan was developed to sample sites in a variety of stream gradients and stream orders. The purpose of the plan was to describe watershed wide fish distribution, not necessarily to sample all potential fish bearing reaches. Data from Phases 1 and 2, and the Project Plan were presented to and approved by Paul Giroux, MELP Fisheries Inventory Specialist.
- Phase 4: Field Inventory: Field sampling of selected sites was completed from August 27 - September 2, 1997.
- Phase 5: Data Entry and Analysis: Field sampling data (including site cards, fish cards, and photodocumentation) were entered into the FDIS database. 1:50,000 scale NTS maps of the study area were updated with new information as per the FISS Data Compilation and Mapping Procedures (DFO, 1997).
- Phase 6: Reporting and Final Mapping: Field and office data were mapped using Arc View and Arc Info software, photographs were scanned and printed, and draft and final reports were completed.

2.1 Changes To Methodology

2.1.1 Phase 2

The required number of sample sites as determined by the Reach Sampling Summary were chosen with bias (rather than randomly) to incorporate biological concerns (fish distribution) and access issues. Additional reaches were chosen upstream and downstream of known barriers to determine limits of fish distribution.

2.1.2 Phase 4

All sample site locations (except for no visible channel sites) were marked in the field with flagging tape and with the ILP and site numeric identifier (NID) on a steel tag fixed to a blaze on a tree.

2.1.3 Phase 5

Photographic data were edited when entered into FDIS from the original field data forms to reduce duplication of photographs and to eliminate poor quality photographs. Field data forms remain unaltered as a permanent record for the sample site. All photos were taken with 35mm slide film, and scanned using a Nikon LS-1000 film scanner. Slides were scanned at 300 dpi, and saved as *.JPG files (.8 compression). Stored photo files are about 300kb, and uncompress to about 5mg each. Digital photos were printed as thumbnails using Corel Mosaic. All site photos were copied to CD, 2 copies have been sent to MELP Smithers, and Triton will retain 1 copy on file.

2.1.4 Phase 6

The inventory and interpretative maps were combined to produce one map. The working area is indicated by blue coloured stream lines. Fish presence is represented by light red highlighting over stream lines (sampled: solid or inferred: dashed) and no fish presence is represented by light blue highlighting over stream lines (sampled: solid or inferred: dashed). Stream classifications are provided for sampled reaches only. Stream summary symbols provide the following information for each sampled site:

- sample site ID,
- fish species presence, not sampled or no fish caught,
- stream or wetland,
- reach confinement,
- reach gradient,
- reach pattern,
- site gradient,
- site channel width,
- site morphology,
- site dominant substrate type,
- site disturbance(s) if applicable, and
- stream classification.

2.2 Field Assessments

The Shedin Creek watershed was surveyed from August 27 - September 2, 1997. Field assessments followed procedures outlined in Reconnaissance (1:20 000) Fish and Fish Habitat Inventory: Standards and Procedures (RIC, 1997). Generally, the process we followed in the field was to:

- assess the watershed during a helicopter overflight to confirm reach boundaries, identify access points, and photograph reaches at a watershed scale.

- assess each reach on the ground by completing a standard site card, sampling for fish presence, completing a fish collection card and photographing representative habitats.
- identify key features such as barriers to fish migration, spawning locations and bridges; photograph and recorded features on site cards with a unique numeric identifier (NID).

Sample site lengths were equal to the greater of 100m or 10 bankfull widths. Stream widths were determined by measuring the channel width with a tape measure, or by visual estimate. At least 6 channel width measurements were made within each reach, each one at least one channel width distance apart. These measurements were averaged to determine the average channel width. Stream gradients were measured using a clinometer. Stream morphology was determined using the *Channel Assessment Procedures Guidebook* (MoF, 1996) as a guide. Depths were measured using a folding meter stick. Water quality (pH and conductivity) was assessed using a Hannah pHTestr2™ and TDSTestr3™. Turbidity was assessed by ground estimate. Habitat quality was assessed for rearing, spawning, overwintering and cover, each of these habitat types was rated as either Good, Fair, Moderate or Poor. Wildlife observations were noted.

2.3 Fish Sampling

Fish community composition was determined by electrofishing at least 100m² or the equivalent of 10 bankfull widths of habitat in each reach using a Smith Root Model 12B electroshocker. Captured fish were measured (nose-fork length) and keyed out to species using the *Field Key to the Freshwater Fishes of British Columbia* (McPhail and Carveth, 1994). Fish collection forms were completed for each site where fish sampling occurred.

3. INVENTORY DATA

3.1 Survey Information

A total of 952 reaches were identified within the Shedin Creek working area. The FDIS sampling program identified 76 potential sample sites; a total of 73 sample sites were visited for inventory purposes. We removed 3 sample sites from the original 76 sample sites from the study area due to the eventual determination of non - fish bearing status of the upper system and to remove high elevation alpine reach sites.

Project inventory maps are presented in Appendix A - Inventory Map. Individual site card information and fish collection data is presented in Appendix B - Stream Site Data from FDIS and Fish Collection Data. Individual site photographs and contact sheets are presented in Appendix C - Photograph Captions and Contact Sheets.

3.1.1 Problems

Watershed codes were not available at the time of mapping and have therefore not been included. All streams were identified with a numeric interim locational point (ILP), ILP's are used throughout this report to identify specific streams.

3.2 Fish Distribution

Dolly Varden char as well as threespine stickleback (*Gasterosteus aculeatus*) were captured in the Shedin Creek watershed. Fish distribution is limited by barriers throughout the watershed. The most notable limits to fish distribution are:

- an 8m high by 25m long chute barrier in Shedin Creek approximately 2.5km upstream from the mouth is the limit to anadromous salmonids,
- a 15m waterfall barrier in Reach 6 of Shedin Creek approximately 29.3km from the mouth and approximately 2km downstream from the confluence with Damsumlo Creek is the limit to resident fish species,
- a 100m high by 300m long cascade barrier at the upstream end of Reach 1 of Sperry Creek approximately 1.4 km upstream from the mouth is the limit to resident fish species, and
- a 5m waterfall barrier at the upstream end of Reach 1 of Rosenthal Creek approximately 3.3 km upstream from the mouth is the limit to resident fish species.

The 20m rock at 10.8 km and 10m rock at 23.6 km barriers noted from FISS on Shedin Creek (map sheet 93M/13) do not exist in the field. The 1.5m chute at 8.7 km noted on the same FISS map sheet was not observed during a helicopter reconnaissance but may be present, but it would not impact fish distribution. Helicopter reconnaissance did not include the area where the 25m rock at 35.8 km and 6m rock at 37.6 km barriers are indicated from FISS, if they exist, these two barriers are upstream of the end of fish use and would not be important to fish distribution.

Anadromous salmonids are present or have access to the lower 2.5 km of Shedin Creek, downstream of the 8m high by 25m long chute. FISS notes chinook, Dolly Varden, mountain whitefish, and rainbow trout at the Babine River - Shedin Creek confluence. This study did not include this lower portion of Shedin Creek. Shedin Creek has a small population of resident Dolly Varden char between the 8m high by 25m long chute barrier up to a 15m waterfall in Reach 6.

Generally, fish distribution is limited to the mainstems of streams downstream of the above mentioned barriers and in tributaries where suitable habitat exists. A small lake (Reach 2 of ILP 00122, map sheet 93M.082) near the confluence of Rosenthal Creek and Shedin Creek was found to contain a population of Dolly Varden char. Threespine stickleback were captured in Reach 3 of ILP 00122 (map sheet 93M.082), upstream of the small lake.

This study is the third sampling attempt to have been completed for the Damsumlo Lake sub-basin and conclude no fish present (Triton 1996 and Degisi and Schell 1997). Damsumlo Creek enters Shedin Creek upstream of the barrier noted in Reach 6.

3.3 Fish Habitat

The Shedin Creek watershed has glacial influence from Rosenthal and Sperry Creeks, two major left bank tributaries. Damsumlo Lake drains a plateau situated between the Skeena River and Shedin Creek.

A small lake near the confluence of Rosenthal and Shedin Creeks is included as fish habitat. Fish habitat exists throughout the watershed, however barriers throughout the watershed limit fish distribution.

Reach 1 of unnamed stream ILP 251 approximately 12.8km upstream from the Babine River - Shedin Creek confluence (mapsheets 93M.082, 93M.083) has the best habitat for fish within the area studied. Elsewhere in the area studied fish habitat is marginal, no definitive spawning areas or highly productive rearing areas were noted.

3.4 Fish Condition

All captured fish appeared to be healthy. Dolly Varden ranged in size from 35mm - 170mm, all were considered to be rearing. The threespine stickleback captured was 30mm in length. No attempt was made to examine captured fish internally for the determination of maturity. No fish were exhibiting spawning colouration.

3.5 Rehabilitation/Enhancement Opportunities

The Shedin Creek Watershed has had no apparent land use activity and does not require rehabilitation nor does it require enhancement.

3.6 Follow-up Sampling

No follow-up sampling is recommended for the Shedin Creek watershed. Fish presence or absence was confirmed in all sampled streams. Where forest harvesting is planned adjacent to inferred fish bearing or non-fish bearing stream reaches with average reach gradient less

than 20%, 1:5,000 scale riparian area classifications should be performed to confirm fish presence or absence. Many potential fish streams may occur in the area, but were not sampled. These streams/reaches appear as dashed red highlighted on the inventory maps.

3.7 Other Concerns/Interest Points

The study area is largely uninhabited, no signs of permanent dwellings were encountered during the inventory. There was no sign of recreational use. An abandoned martin trap was discovered near the confluence of Sperry and Shedin Creeks.

3.8 Non-Fish Bearing Reaches

Non-fish bearing reach reports are provided for relevant reaches including intermittent streams (Table 2). The most downstream reach of a stream which was determined to be non-fish bearing is identified in the report. All subsequent reaches upstream are non-fish bearing by default and are not identified separately. No reports are provided for the TRIM anomaly of a no visible channel - a channel that appears on a TRIM map but was not found in the field.

Table 2. Non-Fish Bearing Status Report for the Shedin Creek Watershed

Initial Sampling Date	Follow-up Sampling Date	Watershed Code or ILP Number	Stream Name	Reach Number	Site Number	Map Sheet Number	Capture Method (electrofishing settings)	Area Covered (m ²)	Sampling Effort	Cond. (µS)	Water Temp. (deg. Celsius)	Flow Stage (VO)	Turbidity (VO)	Known Fish Presence (u/s- d/s)	Obstructions to Fish Migration	Seasonal Habitat Availability	Seasonal Fish Use
9/1/97	-	130	Unnamed	1	3029	93M.082	EF, 400/60/8	600	361 seconds	70	9.5	Low	Clear	DV downstream in Shedin Creek	8m falls barrier 240m upstream of mouth	All	None
8/29/97	-	161	Unnamed	1	1015	93M.082	EF, 500/70/8	210	308 seconds	40	9	Low	Clear	DV downstream in Shedin Creek	6m falls at mouth	All	None
9/1/97	-	66	Unnamed	1	1038	93M.082	No habitat to sample for fish	-	-	-	9	Low	Clear	DV downstream	8m falls at mouth, 6m falls downstream in mainstem is the upstream limit to fish	None	None
9/2/97	-	110	Unnamed	1	3033	93M.082	EF, 400/60/8	200	250 seconds	70	10	Medium	Clear	DV downstream in Shedin Creek	20m falls at mouth of ILP 110	No overwintering habitat	None
9/13/96	9/2/97	4800278	Shedin Creek	6	3031	93M.092	EF, 400/60/8	800	470 seconds	50	9	Medium	Clear	DV downstream of falls	13m falls barrier 2km downstream of the confluence with Damsumlo Creek	All	None
8/28/97	-	94	Unnamed	1	1007	93M.092	EF, 500/70/8	400	260 seconds	90	13	Low	Clear	DV downstream in Shedin Creek	30%+ gradient near mouth	All	None
8/30/97	-	12	Unnamed	1	3016	93M.092	EF, 500/60/8	75	245 seconds	60	8.5	Low	Clear	DV downstream in Shedin Creek	40m falls in ILP 500 (mainstem to this tributary) 600m from mouth	No overwintering habitat	None
8/30/97	-	11	Unnamed	1	3015	93M.092	EF, 500/60/8	125	161 seconds	60	9	Low	Clear	DV downstream in Shedin Creek	40m falls in ILP 500 (mainstem to this tributary) 600m from mouth	No overwintering habitat	None
8/28/97	-	5	Unnamed	1	1010	93M.092	No habitat to sample for fish	-	-	90	11	Medium	Clear	DV downstream in Shedin Creek	30% gradient from mouth	No overwintering habitat	None
8/29/97	-	120	Unnamed	1	3013	93M.083	EF, 400/50/8	150	201 seconds	50	9	Low	Clear	DV downstream in Rosenthal Creek	25% gradient for first 200m	No overwintering habitat	None
9/1/97	-	118	Unnamed	2	3027	93M.083	EF, 800/60/8	100	152 seconds	60	8	Low	Clear	DV downstream in Rosenthal Creek	40% gradient in Reach 1	No overwintering habitat	None
8/29/97	-	155	Unnamed	2	3011	93M.083	EF, 600/60/8	200	430 seconds	40	6	Medium	Clear	DV downstream in Rosenthal Creek	25% gradient at mouth for first 50m	Minimal overwintering habitat	None

Initial Sampling Date	Follow-up Sampling Date	Watershed Code or ILP Number	Stream Name	Reach Number	Site Number	Map Sheet Number	Capture Method (electrofishing settings)	Area Covered (m ²)	Sampling Effort	Cond. (µS)	Water Temp. (deg. Celsius)	Flow Stage (VO)	Turbidity (VO)	Known Fish Presence (u/s/d/s)	Obstructions to Fish Migration	Seasonal Habitat Availability	Seasonal Fish Use
8/29/97	-	480-027800 368	Rosenthal Creek	2	3010	93M.083	EF. 500/60/8	400	585 seconds	100	6	Medium	Lightly Turbid	DV downstream of barrier in Reach 1	5m falls 3km upstream of mouth	Glacial stream	None
8/31/97	-	480-027800 294	Sperry Creek	2	3020	93M.083	EF. 300/60/8	900	433 seconds	70	5.5	Medium	Clear	DV downstream of barrier in Reach 1	100m high by 300m long cascade 1.4km upstream from mouth	All	None
8/31/97	-	12	Unnamed	2	3023	93M.083	No habitat to sample for fish	-	-	60	10	Low	Clear	DV downstream in Shedin Creek	50% gradient all of Reach 1	None	None

4. REFERENCES

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Appendix A - Inventory Map

Appendix B - Stream Site Data from FDIS and Fish Collection Data

FDIS Reach/Site Summary

Reach # Site #

1 1001

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 157 Map 93M.092 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.36 US Elev. Bars ☒ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR
 DS Elev. Magnitude 1 Setting MP Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded N Landuse NO

SITE ATTRIBUTES

Site # 1001 UTM(Zone/East/North/Method) Site Lg 10 Access H Fish Crd? Date 1997/08/27

CHANNEL

Mean Channel Width (m) 0.0 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 0.0 Mean Wb Depth 0.0 No Vis.Ch. ☒ Intermittent ☐
 Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

COVER

COVER SWD LWD B C DP OV IV Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

RSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☐

FDIS Reach/Site Summary

Reach # Site #

1 1002

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

 Gazetted Name Local Name
 ILP 155 Map 93M.092 Reach # 1 Sample Type B

REACH ATTRIBUTES

 Length (km) 0.38 US Elev. Bars ☒ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR
 DS Elev. Magnitude 3 Setting MP Riparian Veg. G
 Order 2 BGC Zone ESSF Exposed/Eroded N Landuse NO

SITE ATTRIBUTES

 Site # 1002 UTM (Zone/East/North/Method) Site Lg 100 Access H Fish Crd? ☒ Date 1997/08/27

CHANNEL

 Mean Channel Width (m) 3.1 Mean Wetted Width (m) 3.0 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 0.0 Mean Wb Depth 1.3 No Vis.Ch. ☐ Intermittent ☐
 Stage ☐ L ☒ M ☐ H Dw ☐ Tribs. ☐

WATER

 Temp. 13 pH 6.4 Cond. 10 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

 COVER SWD LWD B C DP OV IV Total 40 % LWD N DIST NA

MORPHOLOGY

 BED MATERIAL Dominant: F Subdom:
 D95: 0.01 D (cm): 0.01 Morph: NS
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern ME Islands N Coupling DC Confinement NA
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

 TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

 Accompanying Reach or Site Comments ? ☒

A. Location Referencing

C. Station Identification and Conditions

E. Gear Specifications

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

1 1003

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 154 Map 93M.092 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.5 US Elev. Bars ☒ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR
 DS Elev. Magnitude 1 Setting MP Riparian Veg. G
 Order 1 BGC Zone ESSF Exposed/Eroded N Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
 1003 100 H ☒ 1997/08/27

CHANNEL

Mean Channel Width (m) 1.2 Mean Wetted Width (m) 1.2 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 0.0 Mean Wb Depth 0.5 No Vis.Ch. ☐ Intermittent ☐
 Stage ☐ L ☒ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 13 pH 6.2 Cond. 10 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 20 % LWD N DIST NA
 40 50 10

MORPHOLOGY

BED MATERIAL Dominant: NS Subdom:
 D95: 0.01 D (cm): 0.001 Morph: NS
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern ME Islands N Coupling DC Confinement NA
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

Survey Date 1997/08/28 to 1997/08/28 Agency C172
Crew LD/MS/AL Fish Collection Permit # 34770-20
General Comments

A. Location Referencing

Gaz Name	UNNAMED	Alias	
Wtrshd Code	000-0154-000-000-000-000-000-000-000		
Reach #	1	Interim Locational ID:	Project ID 06KISP3068000021998
(BCGS/NTS) Map #	93M 092	Locational Point #	0154

© Station Identification and Conditions

Site	Method	#	UTM Coordinates			Temp	Con	Vis	Turb
1003	EF	1				12.5	10		

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Tot #	Min Lgth	Max Lgth	Fish Act
1003	EF	1	1						

E. Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Wath	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Vol	Freq	Pul	Make	Model
1003	EF	1	1	08/28	1635	08/28	1652	200	200	3	0								600	70	6	SMITH	12B

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

1 1004

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 143 Map 93M.092 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.37 US Elev. Bars ☒ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR
 DS Elev. Magnitude 1 Setting MP Riparian Veg. G
 Order 1 BGC Zone ESSF Exposed/Eroded N Landuse NO

SITE ATTRIBUTES

Site # 1004 UTM(Zone/East/North/Method) Site Lg 175 Access H Fish Crd? ☒ Date 1997/08/28

CHANNEL

Mean Channel Width (m) 1.0 Mean Wetted Width (m) 1.0 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 0.0 Mean Wb Depth 0.5 No Vis.Ch. ☐ Intermittent ☒
 Stage ☐ L ☒ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 11 pH 7.8 Cond. 10 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 20 % LWD N DIST NA
 20 80

MORPHOLOGY

BED MATERIAL Dominant: F Subdom:
 D95: 0.1 D (cm): 0.1 Morph: NS
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern ME Islands N Coupling DC Confinement NA
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

B. Survey Information

B. Survey Information

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1004	EF	1	1							

[illegible]

Abstract

100

100

FDIS Reach/Site Summary

Reach # 1 Site # 1005

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 128 Map 93M.092 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 4.9 US Elev. Bars ☐ N ☐ DI ☒ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR
 DS Elev. Magnitude 100 Setting VW Riparian Veg. C
 Order 4 BGC Zone ESSF Exposed/Eroded N Landuse NO

SITE ATTRIBUTES

Site # 1005 UTM(Zone/East/North/Method) Site Lg 160 Access H Fish Crd? ☒ Date 1997/08/28

CHANNEL

Mean Channel Width (m) 7.1 Mean Wetted Width (m) 7.1 Mean Residual Pool Depth (m) 1.0
 Mean Gradient 1.5 Mean Wb Depth 1.4 No Vis.Ch. ☐ Intermittent ☐
 Stage ☐ L ☒ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 14 pH 7.7 Cond. 40 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 30 % LWD F DIST E

MORPHOLOGY

BED MATERIAL Dominant: F Subdom: G
 D95: 15 D (cm): 15 Morph: RP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern ME Islands O Coupling DC Confinement UN

REACH FEATURES

NID	Map #	Type	Ht.	Lgth.	No.	Roll Frame	UTM	Comment
							(Zone/Easting/Northing)	
95	93M.092	NFP						
95	93M.092	NFP						

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

Survey Date 1997/08/28 to 1997/08/28 Agency C172
Crew MS/LD/ Fish Collection Permit # 34770-20
General Comments

A. Location Referencing

Gaz Name	DAMSUMLO CRK.	Alias	
Wtrshd Code	480-0278-657-453-000-000-000-000-000-000		
Reach # 1	Interim Locational ID:	Project ID	06KISP306800021998
(BCGS/NTS) Map #	93M.092	Locational Point #	

Seq # 0

C. Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
1005	EF	1		14	40		
1005	MT	1		14	40		
1005	MT	2		14	40		

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1005	EF	1	1							
1005	MT	1	1							
1005	MT	2	2							

E. Gear Specifications

[illegible]

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

3 1006

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 181 Map 93M.092 Reach # 3 Sample Type B

REACH ATTRIBUTES

Length (km) 1 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 40 Setting VF Riparian Veg. C
 Order 4 BGC Zone AT Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
 1006 100 H ☒ 1997/08/28

CHANNEL

Mean Channel Width (m) 13.3 Mean Wetted Width (m) 13.3 Mean Residual Pool Depth (m) 0.4
 Mean Gradient 1.0 Mean Wb Depth 0.5 No Vis.Ch. ☐ Intermittent ☐
 Stage ☐ L ☒ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 9 pH 7.5 Cond. 30 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 5 % LWD N DIST NA
 20 80

MORPHOLOGY

BED MATERIAL Dominant: G Subdom: B
 D95: 70 D (cm): 10 Morph: RP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern SI Islands N Coupling DC Confinement UN
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

NID	Map #	Type	Ht.	Lgth.	No.	Roll Frame No.	UTM (Zone/Easting/Northing)	Comment
4001	93M.082	C			3	18		2KM OF CHUTES IN REACH 2, NO SITE FOR THIS REACH.

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

Figs Data Collection Form

A. Location Referencing

Gaz Name	UNNAMED	Alias	
Wtrshd Code	000-0181-000-000-000-000-000-000-000		
Reach #	1	Interim Locational ID:	Project ID 06KISP306800021998
(BCGS/NTS) Map #	93M.092	Locational Point #	00181

B. Survey Information

Survey Date 1997/08/28	to 1997/08/28	Agency C172
Crew MS/LD/	Fish Collection Permit #	
General Comments		

C Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
1006	EF	1		9	30		

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1006	EF	1	1							

E. Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Width	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
1006	EF	1	1	08/28	1045	08/28	1115	230	100	3	O								200	60	8	SMITH	12B

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

1 1007

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 94 Map 93M.092 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 2.08 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 9 Setting MP Riparian Veg. C
 Order 3 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 1007 UTM(Zone/East/North/Method) Site Lg 150 Access H Fish Crd? ☒ Date 1997/08/28

CHANNEL

Mean Channel Width (m) 1.2 Mean Wetted Width (m) 1.2 Mean Residual Pool Depth (m) 0.4
 Mean Gradient 5.0 Mean Wb Depth 0.6 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 13 pH 8.4 Cond. 90 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 70 % LWD A DIST E
 10 30 10 10 20 20

MORPHOLOGY

BED MATERIAL Dominant: G Subdom: F
 D95: 40 D (cm): 10 Morph: RP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern ST Islands N Coupling DC Confinement FC
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

B. Survey Information

Survey Date 1997/08/28 to 1997/08/28 Agency C172
Crew MS/LD/ Fish Collection Permit # 34770-20
General Comments

C. Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
1007	EF	1		13	90		

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1007	EF	1	1							

Ex: Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Wdth	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
1007	EF	1	1	08/28	1215	08/28	1240	260	100	4	O								500	70	6	SMITH	12B

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

1- 1008

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 87 Map 93M.092 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.6 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting VW Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 1008 UTM(Zone/East/North/Method) Site Lg 100 Access H Fish Crd? ☐ Date 1997/08/28

CHANNEL

Mean Channel Width (m) 0.0 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 0.0 Mean Wb Depth 0.0 No Vis.Ch. ☒ Intermittent ☐
 Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

COVER

COVER SWD LWD B C DP OV IV Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS O1 ☐ B1 ☐ B2 ☐ B3 ☐ D1 ☐ D2 ☐ D3 ☐
 C1 ☐ C2 ☐ C3 ☐ C4 ☐ C5 ☐ S1 ☐ S2 ☐ S3 ☐ S4 ☐ S5 ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # 6 Site # 1009

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP Map Reach # Sample Type

REACH ATTRIBUTES

Length (km) US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude Setting Riparian Veg.
 Order BGC Zone Exposed/Eroded Landuse

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? ☒ Date

CHANNEL

Mean Channel Width (m) Mean Wetted Width (m) Mean Residual Pool Depth (m)
 Mean Gradient Mean Wb Depth No Vis.Ch. ☐ Intermittent ☐
 Stage ☐ L ☒ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☐ N ☐ D ☒ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS

O1	B1	B2	B3	D1	D2	D3
☐	☐	☐	☐	☐	☐	☐
C1	C2	C3	C4	C5	S1	S2
☒	☐	☐	☐	☐	☐	☐
S3	S4	S5				
☐	☐	☐				

REACH FEATURES

SITE FEATURES

FISH

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FLBV ☐

Accompanying Reach or Site Comments ? ☒

U.S. Foreign Policy

A. Location Referencing

Alias		Seq #
Gaz Name	SHEDIN CRK.	
Wtrshd Code	480-0278-000-000-000-000-000-000-000	
Reach #	6	
Interim Locational ID:	Project ID	06KISP306800021998
(BCGS/NTS) Map #	93M.092	
	Locational Point #	

B. Survey Information

Survey Date 1997/08/28 to 1997/08/28 Agency C172
Crew MS/LD/ Fish Collection Permit # 34770-20
General Comments

C. Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
1009	EF	1		9	40		
1009	VO	1		9	40		

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1009	EF	1	1	DV	J		5	42	110	R
1009	VO	1	1	DV	J		5	40	120	R

E. Gear Specifications

[illegible]

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

1- 1010

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 5 Map 93M.092 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.53 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting VW Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 1010 UTM(Zone/East/North/Method) Site Lg 150 Access H Fish Crd? ☒ Date 1997/08/28

CHANNEL

Mean Channel Width (m) 0.2 Mean Wetted Width (m) 0.2 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 29.7 Mean Wb Depth 0.2 No Vis.Ch. ☐ Intermittent ☐
 Stage ☐ L ☒ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 11 pH 6.9 Cond. 90 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 0 % LWD N DIST NA

MORPHOLOGY

BED MATERIAL Dominant: F Subdom: G
 D95: 20 D (cm): 5 Morph: SP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern ST Islands N Coupling DC Confinement UN
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

F/SZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A Location Referencing

B: Survey Information

Alias
000-000-000-000-000
Project ID 06KISP3068
Locational Point # 00005

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1010	VO	1	1							

THE UNIVERSITY OF CHICAGO

Length	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
--------	------	------	-------	-----	-----	------	------	-----	------	-------

100

Touch #	Gen Str	Gen Smp #	Comments	Roll	Fr
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FDIS Reach/Site Summary

Reach # Site #

1 1011

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
ILP 134 Map 93M.092 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 1.46 US Elev. Bars ☒ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR
DS Elev. Magnitude 2 Setting MP Riparian Veg. C
Order 2 BGC Zone ESSF Exposed/Eroded N Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
1011 100 H ☒ 1997/08/29

CHANNEL

Mean Channel Width (m) 1.2 Mean Wetted Width (m) 1.2 Mean Residual Pool Depth (m) 0.0
Mean Gradient 2.0 Mean Wb Depth 0.4 No Vis.Ch. Intermittent
Stage ☒ L ☐ M ☐ H Dw Tribs.

WATER

Temp. 9 pH 7.0 Cond. 30 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 30 % LWD F DIST E
10 10 20 5 45 10

MORPHOLOGY

BED MATERIAL Dominant: F Subdom: D95: 0.1 D (cm): 0.1 Morph: RP
DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
Pattern IM Islands N Coupling DC Confinement UN

REACH FEATURES

SITE FEATURES

F/S/Z

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

B. Survey Information

B. Survey Information

D Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1011	EF	1	1							

100

Length	Dpth	Mesb	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
						500	70	6	SMITH	12B

[illegible]

Touch #	Gen Str	Gen Smp #	Comments	Roll	Fr
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FDIS Reach/Site Summary

Reach # Site #

1 1012

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

WATERSHIED

Gazetted Name Local Name
 ILP 122 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 1.53 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 2 Setting PD Riparian Veg. C
 Order 2 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 1012 UTM(Zone/East/North/Method) Site Lg 200 Access H Fish Crd? ☒ Date 1997/08/29

CHANNEL

Mean Channel Width (m) 2.4 Mean Wetted Width (m) 2.0 Mean Residual Pool Depth (m) 0.2
 Mean Gradient 7.5 Mean Wb Depth 0.4 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 15 pH 7.7 Cond. 40 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 75 % LWD A DIST E

MORPHOLOGY

BED MATERIAL Dominant: G Subdom: F
 D95: 25 D (cm): 1.5 Morph: CP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern SI Islands O Coupling CO Confinement CO
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

NID	Map #	Type	Ht.	Lgth.	No.	Roll Frame	UTM	Comment
							(Zone/Easting/Northing)	
2003	93M.082	F	5	10	1	31		FALLS 40M D/S OF LAKE

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

Fish Dissection For

A Location Referencing

Alias		Seq # 0
Gaz Name	UNNAMED	
Wtrshd Code	000-0122-000-000-000-000-000-000-000	
Reach # 1	Interim Locational ID:	Project ID 06KISP306800021998
(BCGS/NTS) Map #	93M.082	Locational Point # 00122

B. Survey Information

Survey Date 1997/08/29 to 1997/08/29 Agency C172
Crew SKB/LED/ Fish Collection Permit # 34770-20
General Comments
EF D/S OF FALLS~ 100sec= 0FISH, EF U/S OF FALLS. 120 SEC = 0. MT1 IN LAKE NEAR
OUTFLOW. MT2 IN OUTFLOW 5m D/S.

C. Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
1012	EF	1		15	40		
1012	MT1	2		15	40		
1012	MT2	2		15	40		

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1012	EF	1	1							
1012	MT1	2	1	DV			10	75	110	R
1012	MT1	2	2							
1012	MT2	2								

E. Gear Specifications

[illegible]

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # 3 Site # 1013

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 122 Map 93M.082 Reach # 3 Sample Type B

REACH ATTRIBUTES

Length (km) 0.9 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting VF Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 1013 UTM(Zone/East/North/Method) Site Lg 125 Access H Fish Crd? ☒ Date 1997/08/29

CHANNEL

Mean Channel Width (m) 1.0 Mean Wetted Width (m) 2.1 Mean Residual Pool Depth (m) 0.2
 Mean Gradient 2.0 Mean Wb Depth 0.4 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 9 pH 7.5 Cond. 60 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 60 % LWD F DIST E
 15 15 15 40 15

MORPHOLOGY

BED MATERIAL Dominant: G Subdom: F
 D95: 5 D (cm): 1.5 Morph: RP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern IR Islands N Coupling DC Confinement UN
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

Fish Data Collection Form

A. Location/Referencing

Gaz Name UNNAMED Alias
Wtrshd Code 000-0122-000-000-000-000-000-000-000 Seq # 0
Reach # 3 Interim Locational ID: Project ID 06KISP306800021998
(BCGS/NTS) Map # 93M.082 Locational Point # 00122

B. Survey Information

Survey Date 1997/08/29 to 1997/08/29 Agency C172
Crew SKB/LED/ Fish Collection Permit # 34770-20
General Comments

C. Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
1013	EF	1		9	60		

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1013	EF	1	1	TSB			1	30	30	
1013	EF	1	1	DV	A		2	60	170	

E. Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Wdth	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
1013	EF	1	1	08/29	1253	08/29	1306	145	80	1.2	O								500	70	8	SMITH	12B

F. Individual Fish Data

Site	Meth	#	H/P	Species	Lgth	Wgt	Sex	Mat	Age Str	Age Smp #	Vouch #	Gen Str	Gen Smp #	Comments	Roll	Fr
1013	EF	1	1	TSB	30									@ ~30mU/S		
1013	EF	1	1	DV	170									@ ~4mU/S		
1013	EF	1	1	DV	60									CAUGHT IN LAKE SHORE. FR35+36	1	35

FDIS Reach/Site Summary

Reach # Site #

1 1014

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHIED

Gazetted Name Local Name
 ILP 162 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 3.04 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting PN Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM (Zone/East/North/Method) Site Lg Access Fish Crd? Date
 1014 160 H ☒ 1997/08/29

CHANNEL

Mean Channel Width (m) 0.8 Mean Wetted Width (m) 1.8 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 3.0 Mean Wb Depth 0.2 No Vis.Ch. ☐ Intermittent ☒
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 10 pH 7.1 Cond. 20 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total % LWD DIST
 10 5 5 70 10 60 % F E

MORPHOLOGY

BED MATERIAL Dominant: F Subdom: G
 D95: 5 D (cm): 0.05 Morph: RP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern ST Islands N Coupling DC Confinement UN
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

ESZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

B: Survey Information

C. Station Identification and Conditions

D: Fish Summary

E. Gear Specifications

1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 26

F. Individual Fish Data

THE UNIVERSITY OF CHICAGO

Book #	Gen Str	Gen Smp #	Comments	Roll	Fr

FDIS Reach/Site Summary

Reach # Site #

1 1015

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 161 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 2.79 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 2 Setting PD Riparian Veg. C
 Order 2 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
 1015 400 H ☒ 1997/08/29

CHANNEL

Mean Channel Width (m) 4.1 Mean Wetted Width (m) 3.3 Mean Residual Pool Depth (m) 0.3
 Mean Gradient 7.0 Mean Wb Depth 0.4 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 9 pH 7.8 Cond. 40 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 30 % LWD A DIST E
 20 55 5 5 5 5 5

MORPHOLOGY

BED MATERIAL Dominant: G Subdom: C
 D95: 45 D (cm): 5 Morph: RP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern SI Islands N Coupling PC Confinement FC
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

NID	Map #	Type	Ht.	Lgth.	No.	Roll Frame	UTM	Comment
							(Zone/Easting/Northing)	
2004	93M.082	F	6		2	10		DARK PHOTO, SHOWS 6M FALLS AT MOUTH OF STREAM.

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

B. Survey Information

C. Station Identification and Conditions

Daily Summary

E. Gear Specifications

Abstract

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

2 1016

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

WATERSHIED

Gazetted Name Local Name
ILP 131 Map 93M.082 Reach # 2 Sample Type B

REACH ATTRIBUTES

Length (km) 4.41 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
DS Elev. Magnitude 10 Setting MP Riparian Veg. C
Order 2 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
 1016 120 H ☒ 1997/08/29

CHANNEL

Mean Channel Width (m) 2.7 Mean Wetted Width (m) 2.3 Mean Residual Pool Depth (m) 0.0
Mean Gradient 7.0 Mean Wb Depth 1.0 No Vis.Ch. ☐ Intermittent ☐
Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 9 pH Cond. Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 20 % LWD A DIST E
 40 10 10 40

MORPHOLOGY

BED MATERIAL Dominant: C Subdom: G
D95: 45 D (cm): 5 Morph: RP
Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
Pattern IR Islands N Coupling DC Confinement OC
DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

NID	Map #	Type	Ht.	Lgth.	No.	Roll Frame	UTM	Comment
							(Zone/Easting/Northing)	
2005	93M.082	F	8		13	8		8M FALLS AT MOUTH OF ILP 00130.

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

B. Survey Information

Survey Date 1997/08/29 to 1997/08/29 Agency C172
Crew SKB(LED/ Fish Collection Permit # 34770-20
General Comments
NF- FALLS BARRIER @ MOUTH 8m IN HEIGHT [OF ILP 00130]

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1016	EF	1	1							

E. Gear Specifications

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

1 1017

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
ILP 125 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.34 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
DS Elev. Magnitude 1 Setting MP Riparian Veg. C
Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 1017 UTM(Zone/East/North/Method) Site Lg 10 Access H Fish Crd? ☐ Date 1997/08/29

CHANNEL

Mean Channel Width (m) 0.0 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0
Mean Gradient 0.0 Mean Wb Depth 0.0 No Vis.Ch. ☒ Intermittent ☐
Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

COVER

COVER ☐ SWD ☐ LWD ☐ B ☐ C ☐ DP ☐ OV ☐ IV ☐ Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
D95: D (cm): Morph:
Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☐ L
Pattern Islands Coupling Confinement
DISTURBANCE INDICATORS
O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # Site #

1 1018

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 127 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 1.35 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting VW Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
 1018 10 H ☐ 1997/08/29

CHANNEL

Mean Channel Width (m) 0.0 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 0.0 Mean Wb Depth 0.0 No Vis.Ch. ☒ Intermittent ☐
 Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

COVER

COVER SWD LWD B C DP OV IV Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # Site #

1 1019

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 174 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 1 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting VW Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 1019 UTM(Zone/East/North/Method) Site Lg 100 Access H Fish Crd? ☒ Date 1997/08/30

CHANNEL

Mean Channel Width (m) 1.1 Mean Wetted Width (m) 1.1 Mean Residual Pool Depth (m) 0.2
 Mean Gradient 2.5 Mean Wb Depth 0.3 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 10 pH 7.4 Cond. 40 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 60 % LWD F DIST C
 15 5 0 10 0 60 10

MORPHOLOGY

BED MATERIAL Dominant: F Subdom:
 D95: 0.05 D (cm): 0 Morph: RP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern SI Islands N Coupling DC Confinement OC

DISTURBANCE INDICATORS									
O1	B1	B2	B3	D1	D2	D3			
☐	☐	☐	☐	☐	☐	☐			
C1	C2	C3	C4	C5	S1	S2	S3	S4	S5
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A-Location Referencing

Gaz Name UNNAMED

Gaz Name	UNNAMED	Alias
Wtrshd Code	000-0174-000-000-000-000-000-000-000	Seq # 0

Survey Date 1997/08/30 to 1997/08/30 Agency C172
Crew SKB/LED/ Fish Collection Permit # 34770-20
General Comments

A Location Referencing

Gaz Name	UNNAMED	Alias
Wtrshd Code	000-0174-000-000-000-000-000-000	
Reach #	1	Interim Locational ID:
(BCGS/NTS) Map #	93M.082	Project ID
		06KISP306800021998
		Locational Point #
		00174

B. Survey Information

Survey Date 1997/08/30 to 1997/08/30 Agency C172
Crew SKB/LED/ Fish Collection Permit # 34770-20
General Comments

A-Location Referencing

Site	Method	#	UTM Coordinates	Temp	Con	V/s	Turb
1019	EF	1		10	40		
1020	EF	2		10	40		

B. Survey Information

Survey Date 1997/08/30 to 1997/08/30 Agency C172										
Crew SKB/LED/ Fish Collection Permit # 34770-20										
General Comments										
D. Fish Summary										
Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1019	EF	1	1							
1020	EF	2	2							

A Location Referencing

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
1019	EF	1		10	40		
1020	EF	2		10	40		

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Wdth	Encl	Nt Typ
1019	EF	1	1	08/30	0930	08/30	0945	155	55	1		O
1020	EF	2	2	08/30	0950	08/30	1005	145	65	1		O

B. Survey Information

D. Fish Summary													
Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act			
1019	EF	1	1										
1020	EF	2	2										

lgth	Dpth	Mesh	IN	Sz	Set	Hab	Volt	Freq	Pul	Make	Model
							500	70	6	SMITH	12B
							500	70	6	SMITH	12B

A-Location Referencing

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
1019	EF	1		10	40		
1020	EF	2		10	40		

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Wdth	Encl	Nt Typ
1019	EF	1	1	08/30	0930	08/30	0945	155	55	1	O	
1020	EF	2	2	08/30	0950	08/30	1005	145	65	1	O	

Site	Meth	#	H/P	Species	Lgth	Wgt	Sex	Mat	Age	Smp #	Age
1019	EF	1	1								
1020	EF	2	2								

B. Survey Information

Survey Date 1997/08/30 to 1997/08/30 Agency C172

Crew SKB/LED/ Fish Collection Permit # 34770-20

General Comments

D Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1019	EF	1	1							
1020	EF	2	2							

Lgth	Dpth	Mesh	IN	Sz	Set	Hab	Volt	Freq	Pul	Make	Model
							500	70	6	SMITH	12B
							500	70	6	SMITH	12B

ouch #	Gen Str	Gen Smp #	Comments	Roll	Fr

FDIS Reach/Site Summary

Reach # Site #

1 1021

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 133 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 4.73 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 4 Setting MP Riparian Veg. C
 Order 2 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
 1021 150 H ☒ 1997/08/30

CHANNEL

Mean Channel Width (m) 3.1 Mean Wetted Width (m) 2.8 Mean Residual Pool Depth (m) 0.2
 Mean Gradient 3.5 Mean Wb Depth 0.5 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 10 pH 7.3 Cond. 30 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 30 % LWD A DIST E
 20 20 30 20 10

MORPHOLOGY

BED MATERIAL Dominant: G Subdom: F
 D95: 7 D (cm): 1 Morph: RP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern IR Islands N Coupling DC Confinement UN
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # Site #

1 1022

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 135 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 1.17 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting VW Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
 1022 250 H ☐ 1997/08/30

CHANNEL

Mean Channel Width (m) 0.0 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 0.0 Mean Wb Depth 0.0 No Vis.Ch. ☒ Intermittent ☐
 Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

COVER

COVER ☐ SWD ☐ LWD ☐ B ☐ C ☐ DP ☐ OV ☐ IV Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # Site #

1 1023

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 136 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 1.15 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting MP Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM (Zone/East/North/Method) Site Lg Access Fish Crd? Date
 1023 100 H ☐ 1997/08/30

CHANNEL

Mean Channel Width (m) 1.1 Mean Wetted Width (m) 0.8 Mean Residual Pool Depth (m) 0.1
 Mean Gradient 2.0 Mean Wb Depth 0.4 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 10 pH Cond. Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 40 % LWD F DIST C
 20 10 20 40 10

MORPHOLOGY

BED MATERIAL Dominant: G Subdom: C
 D95: 20 D (cm): 3 Morph: RP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern SI Islands N Coupling DC Confinement FC
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # 1 Site # 1024

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP Map Reach # Sample Type

REACH ATTRIBUTES

Length (km) US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude Setting Riparian Veg.
 Order BGC Zone Exposed/Eroded Landuse

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? ☒ Date

CHANNEL

Mean Channel Width (m) Mean Wetted Width (m) Mean Residual Pool Depth (m)
 Mean Gradient Mean Wb Depth No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER Total % DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

NID	Map #	Type	Ht.	Lgth.	No.	Roll Frame	UTM	Comment
							(Zone/Easting/Northing)	
2006	93M.082	F	3		13	16		AERAIL VIEW OF 3M FALLS BARRIER 200M U/S ON ILP 00167 (93M.082)

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

B: Survey Information

Survey Date	1997/08/30	to	1997/08/30	Agency	C172
Crew	SKB/LED/			Fish Collection Permit #	34770-20
General Comments					

C. Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
1024	EF	1		9	30		

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1024	EF	1	1							

E. Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Wdth	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
024	EF	1	1	08/30		08/30		230	75	1.5	O								400	70	8	SMITH	12B

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

1 1025

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
ILP 169 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.59 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
DS Elev. Magnitude 1 Setting VW Riparian Veg. C
Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
 1025 100 H ☐ 1997/08/30

CHANNEL

Mean Channel Width (m) 0.0 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0
Mean Gradient 0.0 Mean Wb Depth 0.0 No Vis.Ch. ☒ Intermittent ☐
Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

COVER

COVER SWD LWD B C DP OV IV Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
D95: D (cm): Morph:
Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☐ L
Pattern Islands Coupling Confinement
DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # Site #

1 1026

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 171 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 3.3 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 6 Setting VW Riparian Veg. C
 Order 3 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM (Zone/East/North/Method) Site Lg Access Fish Crd? Date
 1026 100 H ☒ 1997/08/30

CHANNEL

Mean Channel Width (m) 6.8 Mean Wetted Width (m) 4.7 Mean Residual Pool Depth (m) 1.0
 Mean Gradient 13.0 Mean Wb Depth 0.6 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 9 pH 7.7 Cond. 50 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 40 % LWD A DIST E
 25 25 20 10 10 5 5

MORPHOLOGY

BED MATERIAL Dominant: C Subdom: G
 D95: 65 D (cm): 15 Morph: RP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern ST Islands N Coupling PC Confinement FC
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

B. Survey Information

Survey Date	1997/08/30	to	1997/08/30	Agency	C172
Crew	SKB/LED/			Fish Collection Permit #	34770-20
General Comments					

D. Fish Summary

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
1026	EF	1		9	50		

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1026	EF	1	1	DV			14	62	440	0

Abstract

Site	Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Wdth	Encl	Nt Typ
1026	EF	1	1	08/30	0330	08/30	0351	260	40	3	0		

Depth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
						400	70	6		
						400	70	6		

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

Site	Meth	#	H/P	Species	Lgth	Wgt	Sex	Mat	Age	Str	Age Smp	#	Age
1026	EF	1	1	DV	110								
1026	EF	1	1	DV	95								
1026	EF	1	1	DV	65								
1026	EF	1	1	DV	95								
1026	EF	1	1	DV	75								
1026	EF	1	1	DV	85								
1026	EF	1	1	DV	75								
1026	EF	1	1	DV	85								
1026	EF	1	1	DV	65								
1026	EF	1	1	DV	63								
1026	EF	1	1	DV	62								

Touch #	Gen Str	Gen Smp #	Comments	Roll	Fr
			VISUAL OBSERVATION S		
			APPROXIMATLY		
			ARE		
			MEASUREMENTS		
			THESE		

FDIS Reach/Site Summary

Reach # Site #

1 1027

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
ILP 172 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 1.5 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
DS Elev. Magnitude 2 Setting VW Riparian Veg. C
Order 2 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 1027 UTM(Zone/East/North/Method) Site Lg 60 Access H Fish Crd? ☐ Date 1997/08/30

CHANNEL

Mean Channel Width (m) 1.2 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0
Mean Gradient 5.0 Mean Wb Depth 0.3 No Vis.Ch. ☐ Intermittent ☒
Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

COVER

COVER SWD LWD B C DP OV IV Total 35 % LWD F DIST E
 30 30 40

MORPHOLOGY

BED MATERIAL Dominant: F Subdom: C
D95: 15 D (cm): 0 Morph: RP
Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
Pattern ST Islands N Coupling PC Confinement OC
DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # 1 Site # 1028

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 36 Map 93M.093 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 6 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 33 Setting VF Riparian Veg. S
 Order 3 BGC Zone ESSF Exposed/Eroded V Landuse NO

SITE ATTRIBUTES

Site # 1028 UTM(Zone/East/North/Method) Site Lg 120 Access H Fish Crd? ☒ Date 1997/08/31

CHANNEL

Mean Channel Width (m) 15.7 Mean Wetted Width (m) 5.9 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 54.0 Mean Wb Depth 1.4 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 5 pH 7.6 Cond. 60 Turb. ☐ T ☐ M ☒ L ☐ C

COVER

COVER SWD LWD B C DP OV IV Total 30 % LWD N DIST NA

MORPHOLOGY

BED MATERIAL Dominant: B Subdom: G
 D95: 70 D (cm): 50 Morph: RP
 Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern ST Islands N Coupling CO Confinement EN
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

NID	Map #	Type	Ht.	Lgth.	No.	Roll Frame No.	UTM (Zone/Easting/Northing)	Comment
2007	93M.092	C		120	13	33		SERIES OF CASCADES/FALLS IN R1 FROM MOUTH TO GRADIENT BREAK ~500M, DATA

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

B. Survey Information

Survey Date 1997/09/01 to 1997/09/01 Agency C172
 Crew SKB/LED/ Fish Collection Permit # 35770-20
 General Comments

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1028	EF	1	1							

Figure 1

Dpth	Mesh	IN	Sz	Set	Hab	Volt	Freq	Pul	Make	Model
						300	70	6	SMITH	12B

100

Touch #	Gen Str	Gen Smp #	Comments	Roll	Fr

FDIS Reach/Site Summary

Reach # Site #

1 1029

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 159 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 1.5 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting VW Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 1029 UTM(Zone/East/North/Method) Site Lg 50 Access H Fish Crd? ☐ Date 1997/08/31

CHANNEL

Mean Channel Width (m) 0.0 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 0.0 Mean Wb Depth 0.0 No Vis.Ch. ☒ Intermittent ☐
 Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

COVER

COVER ☐ SWD ☐ LWD ☐ B ☐ C ☐ DP ☐ OV ☐ IV ☐ Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS O1 ☐ B1 ☐ B2 ☐ B3 ☐ D1 ☐ D2 ☐ D3 ☐
 C1 ☐ C2 ☐ C3 ☐ C4 ☐ C5 ☐ S1 ☐ S2 ☐ S3 ☐ S4 ☐ S5 ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # Site #

1 1030

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 160 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.59 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting VW Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
 1030 50 H ☐ 1997/08/31

CHANNEL

Mean Channel Width (m) 0.0 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 0.0 Mean Wb Depth 0.0 No Vis.Ch. ☒ Intermittent ☐
 Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

COVER

COVER SWD LWD B C DP OV IV Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS

O1	B1	B2	B3	D1	D2	D3
☐	☐	☐	☐	☐	☐	☐
C1	C2	C3	C4	C5	S1	S2
☐	☐	☐	☐	☐	☐	☐
					S3	S4
					☐	☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # 1 Site # 1031

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 104 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 4.4 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 5 Setting MP Riparian Veg. C
 Order 2 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 1031 UTM(Zone/East/North/Method) Site Lg 150 Access H Fish Crd? ☒ Date 1997/08/31

CHANNEL

Mean Channel Width (m) 3.3 Mean Wetted Width (m) 2.3 Mean Residual Pool Depth (m) 0.2
 Mean Gradient 9.5 Mean Wb Depth 0.7 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 8 pH 7.7 Cond. 80 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 30 % LWD F DIST E
 10 30 55 5

MORPHOLOGY

BED MATERIAL Dominant: B Subdom: G
 D95: 45 D (cm): 20 Morph: RP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern SI Islands N Coupling CO Confinement CO
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

B. Survey Information:

Survey Date	1997/08/31	to	1997/08/31	Agency	C172
Crew	SKB/LED/			Fish Collection Permit #	35770-20
General Comments					

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1031	EF	1	1	DV			11	65	125	R

[illegible]

th	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
						300	70	6	SMITH	12B

100

[illegible]

FDIS Reach/Site Summary

Reach # 1 Site # 1032

Watershed Code: 000-000000-00000-00000-0000-0000-0000-0000-0000-0000

WATERSHED

Gazetted Name Local Name
 ILP 109 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 2.1 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting MP Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 1032 UTM(Zone/East/North/Method) Site Lg 120 Access H Fish Crd? ☒ Date 1997/08/31

CHANNEL

Mean Channel Width (m) 2.2 Mean Wetted Width (m) 1.8 Mean Residual Pool Depth (m) 0.3
 Mean Gradient 3.0 Mean Wb Depth 0.2 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 12 pH 7.7 Cond. 100 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 55 % LWD A DIST E
 20 40 10 15 15

MORPHOLOGY

BED MATERIAL Dominant: F Subdom: C
 D95: 20 D (cm): 0.25 Morph: RP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern SI Islands N Coupling DC Confinement OC
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

B. Survey Information

B. Survey Information

D Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1032	EF	1	1	DV			7	70	125	P

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

Length	Dpth	Mesh	IN	Sz	Hab	Volt	Freq	Pul	Make	Model
						200	70		CASETTE	400

100

[illegible]

FDIS Reach/Site Summary

Reach # Site #

3 1033

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP Map Reach # Sample Type

REACH ATTRIBUTES

Length (km) US Elev. Bars ☐ N ☐ DI ☒ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR
 DS Elev. Magnitude Setting Riparian Veg.
 Order BGC Zone Exposed/Eroded Landuse

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? ☒ Date

CHANNEL

Mean Channel Width (m) Mean Wetted Width (m) Mean Residual Pool Depth (m)
 Mean Gradient Mean Wb Depth No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☒ L ☐ C

COVER

COVER Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☐ N ☐ D ☒ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS

O1	B1	B2	B3	D1	D2	D3
☐	☐	☐	☐	☐	☐	☐
C1	C2	C3	C4	C5	S1	S2
☐	☐	☐	☐	☐	☐	☐
					S3	S4
					☐	☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A Location Referencing

B Survey Information

Survey Date 1997/08/31 to 1997/08/31 Agency C172
Crew SKB/LED/ Fish Collection Permit # 34770-20
General Comments

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1033	EF	1	1	DV			14	45	105	R

THE

Site	Meth	#	H/P	T In	D Out	T Out	EF Sec	EF Lgth	EF Width	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model	
1033	EF	1	1	08/31		08/31		500	75	1.5	O							400	70	6		SMITH	12B

100

[illegible]

FDIS Reach/Site Summary

Reach # Site #

1 1035

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 251 Map 93M.083 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 1.11 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 39 Setting VW Riparian Veg. C
 Order 3 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM (Zone/East/North/Method) Site Lg Access Fish Crd? Date
 1035 175 H ☒ 1997/09/01

CHANNEL

Mean Channel Width (m) 13.2 Mean Wetted Width (m) 5.2 Mean Residual Pool Depth (m) 0.9
 Mean Gradient 8.0 Mean Wb Depth 2.0 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 9 pH Cond. Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 40 % LWD F DIST E
 10 10 45 30 5

MORPHOLOGY

BED MATERIAL Dominant: B Subdom: G
 D95: 47 D (cm): 30 Morph: RP
 Bars ☐ N ☐ D ☒ P ☐ M ☐ T ☐ L
 Pattern ST Islands O Coupling CO Confinement CO
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

NID	Map #	Type	Ht.	Lgth.	No.	Roll Frame	UTM	Comment
							(Zone/Easting/Northing)	
2008	93M.083	F	3		15	19		3M FALLS AND POOL.

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

B. Survey Information

Survey Date	1997/09/01	to	1997/09/01	Agency	C172
Crew	SKB/LED/			Fish Collection Permit #	34770-20
General Comments					

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1035	EF	1	1	DV			9	72	105	R

[illegible]

Length	Dpth	Mesh	IN	Sz	Set	Hab	Volt	Freq	Pul	Make	Model
							400	70	4	SMITH	12B

11

[illegible]

FDIS Reach/Site Summary

Reach # 1 Site # 1036

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 63 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 6.95 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 18 Setting MP Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 1036 UTM(Zone/East/North/Method) Site Lg 500 Access H Fish Crd? ☒ Date 1997/09/01

CHANNEL

Mean Channel Width (m) 10.7 Mean Wetted Width (m) 5.0 Mean Residual Pool Depth (m) 0.8
 Mean Gradient 8.0 Mean Wb Depth 1.1 No Vis.Ch. ☐ Intermittent ☐
 Stage ☐ L ☒ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 9 pH Cond. Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 30 % LWD F DIST C

MORPHOLOGY

BED MATERIAL Dominant: B Subdom: G
 D95: 45 D (cm): 30 Morph: SP
 Bars ☐ N ☐ D ☒ P ☐ M ☐ T ☐ L
 Pattern SI Islands O Coupling CO Confinement CO
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

NID	Map #	Type	Ht.	Lgth.	Roll No.	Frame No.	UTM (Zone/Easting/Northing)	Comment
2010	93M.083	F	8		15	27		8M FALLS, ~300M UPSTREAM OF CONFLUENCE.
2010	93M.083	F	8		15	28		8M FALLS, ~300M UPSTREAM OF CONFL
2012	93M.082	F	6		18	1		6M FALLS AT ~ 100M UPSTREAM OF 8M FALLS. THIS FALLS IS END OF FISH USE.

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A-Location Referencing

B. Survey Information

C Station Identification and Conditions

D. Fish Summary

Great Specifications

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

1 1037

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 65 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.85 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting MP Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 1037 UTM (Zone/East/North/Method) Site Lg 220 Access H Fish Crd? ☒ Date 1997/09/01

CHANNEL

Mean Channel Width (m) 4.9 Mean Wetted Width (m) 3.7 Mean Residual Pool Depth (m) 0.2
 Mean Gradient 38.0 Mean Wb Depth 0.4 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 9 pH Cond. Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 50 % LWD A DIST E

MORPHOLOGY

BED MATERIAL Dominant: G Subdom: F
 D95: 15 D (cm): 5 Morph: RP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern SI Islands N Coupling PC Confinement OC

DISTURBANCE INDICATORS

O1	B1	B2	B3	D1	D2	D3
☐	☐	☐	☐	☐	☐	☐
C1	C2	C3	C4	C5	S1	S2
☐	☐	☐	☐	☐	☐	☐
S3	S4	S5				
☐	☐	☐				

REACH FEATURES

SITE FEATURES

NID	Map #	Type	Ht.	Lgth.	No.	Roll Frame	UTM	Comment
							(Zone/Easting/Northing)	
2011	93M.082	F	7.3		15	31		NOT END OF FISH USE, FISH CAPTURED UPSTREAM OF FALLS.
2011	93M.082	F	7.3		15	31		7.3M FALLS AT MOUTH, FISH CAPTURED UPSTREAM.

FISH

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

Alias

Seq # 0

(BCGS/NTS) Map # 93M.082
Locational Point # 00065

Survey Date	1997/09/01	to	1997/09/01	Agency	C172
Crew	SKB/LED/			Fish Collection Permit #	34770-20
General Comments					

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
1037	EF	1		0			

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
1037	EF	1	1	DV			7	48	140	R

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Wdth	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model	
037	EF	1	1	09/01		09/01		150	60	2.5	0								400	70	6		SMITH	12B

[illegible]

FDIS Reach/Site Summary

Reach # Site #

1 1038

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP Map Reach # Sample Type

REACH ATTRIBUTES

Length (km) US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude Setting Riparian Veg.
 Order BGC Zone Exposed/Eroded Landuse

SITE ATTRIBUTES

Site # UTM (Zone/East/North/Method) Site Lg Access Fish Crd? Date
 ☐

CHANNEL

Mean Channel Width (m) Mean Wetted Width (m) Mean Residual Pool Depth (m)
 Mean Gradient Mean Wb Depth No Vis.Ch. ☐ Intermittent ☒
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total % LWD DIST
 %

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS

O1	B1	B2	B3	D1	D2	D3
☐	☐	☐	☐	☐	☐	☐
C1	C2	C3	C4	C5	S1	S2
☐	☐	☐	☐	☐	☐	☐
S3	S4	S5				
☐	☐	☐				

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # Site #

1 1039

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 112 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.73 US Elev. 740 Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. 520 Magnitude 1 Setting VW Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
 1039 60 H ☐ 1997/09/01

CHANNEL

Mean Channel Width (m) 1.0 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 7.0 Mean Wb Depth 0.0 No Vis.Ch. ☐ Intermittent ☒
 Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

COVER

COVER SWD LWD B C DP OV IV Total 0 % LWD F DIST C

MORPHOLOGY

BED MATERIAL Dominant: F Subdom: B
 D95: 25 D (cm): 0 Morph: NS
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern ST Islands N Coupling DC Confinement UN
 DISTURBANCE INDICATORS

O1	B1	B2	B3	D1	D2	D3
☐	☐	☐	☐	☐	☐	☐
C1	C2	C3	C4	C5	S1	S2
☐	☐	☐	☐	☐	☐	☐
S3	S4	S5				
☐	☐	☐				

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # Site #

1 1040

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 64 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.54 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting VW Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
 1040 60 H ☐ 1997/09/01

CHANNEL

Mean Channel Width (m) 0.0 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 0.0 Mean Wb Depth 0.0 No Vis.Ch. ☒ Intermittent ☐
 Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

COVER

COVER SWD LWD B C DP OV IV Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # Site #

1- 1041

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 98 Map 93M.073 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 1.26 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 15 Setting VW Riparian Veg. C
 Order 3 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM (Zone/East/North/Method) Site Lg Access Fish Crd? Date
 1041 175 H ☒ 1997/09/02

CHANNEL

Mean Channel Width (m) 4.2 Mean Wetted Width (m) 3.2 Mean Residual Pool Depth (m) 0.6
 Mean Gradient 18.0 Mean Wb Depth 0.9 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 10 pH 7.7 Cond. 100 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total % LWD DIST
 25 25 30 10 5 5 50 % F C

MORPHOLOGY

BED MATERIAL Dominant: B Subdom: C
 D95: 45 D (cm): 25 Morph: SP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern ST Islands N Coupling CO Confinement CO
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

NID	Map #	Type	Ht.	Lgth.	No.	Roll Frame No.	UTM (Zone/Easting/Northing)	Comment
2014	93M.073	F	3		18	11		FALLS 80M UPSTREAM, NOT EFU, BEDROCK

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

Gaz Name	UNNAMED	Alias
Wrrshd Code	000-0098-000-000-000-000-000-000-000	
Reach #	1	Interim Locational ID:
(BCGS/NTS) Map #	93M.073	Project ID 06KISP306800021998
		Locational Point # 000998

General Comments

C Station Identification and Conditions

D Fish Summary

E. Gear Specifications

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

1 1042

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP Map Reach # Sample Type

REACH ATTRIBUTES

Length (km) US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude Setting Riparian Veg.
 Order BGC Zone Exposed/Eroded Landuse

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
 ☒

CHANNEL

Mean Channel Width (m) Mean Wetted Width (m) Mean Residual Pool Depth (m)
 Mean Gradient Mean Wb Depth No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 30 % LWD A DIST E

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A-1 Location Referencing

B. Survey Information

C Station Identification and Conditions

D Fish Summary

E Gear Specifications

F-Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

1 1044

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 96 Map 93M.073 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.28 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting VW Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
 1044 200 H ☐ 1997/09/02

CHANNEL

Mean Channel Width (m) 0.0 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 0.0 Mean Wb Depth 0.0 No Vis.Ch. ☒ Intermittent ☐
 Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

COVER

COVER SWD LWD B C DP OV IV Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # 1 Site # 1060

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 175 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.4 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting VW Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 1060 UTM(Zone/East/North/Method) Site Lg 10 Access H Fish Crd? ☐ Date 1997/08/29

CHANNEL

Mean Channel Width (m) 0.0 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 0.0 Mean Wb Depth 0.0 No Vis.Ch. ☒ Intermittent ☐
 Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

COVER

COVER SWD LWD B C DP OV IV Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS O1 ☐ B1 ☐ B2 ☐ B3 ☐ D1 ☐ D2 ☐ D3 ☐
 C1 ☐ C2 ☐ C3 ☐ C4 ☐ C5 ☐ S1 ☐ S2 ☐ S3 ☐ S4 ☐ S5 ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # Site #

1 1299

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 176 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 1.57 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 2 Setting VW Riparian Veg. C
 Order 2 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
 1299 10 H ☐ 1997/08/29

CHANNEL

Mean Channel Width (m) 0.0 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 0.0 Mean Wb Depth 0.0 No Vis.Ch. ☒ Intermittent ☐
 Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

COVER

COVER SWD LWD B C DP OV IV Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # Site #

1 3004

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 156 Map 93M.092 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.29 US Elev. Bars ☒ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR
 DS Elev. Magnitude 1 Setting MP Riparian Veg. G
 Order 1 BGC Zone ESSF Exposed/Eroded N Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
 3004 250 H ☒ 1997/08/27

CHANNEL

Mean Channel Width (m) 0.7 Mean Wetted Width (m) 0.7 Mean Residual Pool Depth (m) 0.7
 Mean Gradient 1.0 Mean Wb Depth 0.2 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 13 pH 7.5 Cond. 10 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 20 % LWD N DIST NA
 10 80 10

MORPHOLOGY

BED MATERIAL Dominant: F Subdom:
 D95: 0.1 D (cm): 0.1 Morph: NS
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern ME Islands N Coupling DC Confinement UN
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

PSIZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A Location Referencing

B. Survey Information

B. Survey Information

D Fish Summary

D Fish Summary

D Fish Summary

100

100

[illegible][illegible]

FDIS Reach/Site Summary

Reach # 1 Site # 3005

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP Map Reach # Sample Type

REACH ATTRIBUTES

Length (km) US Elev. Bars ☒ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR
 DS Elev. Magnitude Setting Riparian Veg.
 Order BGC Zone Exposed/Eroded Landuse

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? ☒ Date

CHANNEL

Mean Channel Width (m) Mean Wetted Width (m) Mean Residual Pool Depth (m)
 Mean Gradient Mean Wb Depth No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER Total % DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom: D95: D (cm): Morph:
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

Gaz Name UNNAMED

Gaz Name	UNNAMED	Alias
Wtrshd Code	000-0142-000-000-000-000-000-000-000	
Reach #	1	Interim Locational ID:
(BCGS/NTS) Map #	93M.092	Project ID 06KISP306800021998
		Locational Point # 00142

Survey Date 1997/08/28 to 1997/08/28 Agency C172
Crew AL/CC/ Fish Collection Permit # 34770-20
General Comments

C Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
3005	EF	1		12	20		

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
3005	EF	1	1							

E: Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
3005	EF	1	1	08/28	0830	08/28	09/10	396	250	1	O							400	60	8	SMITH	12B

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

1 3006

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
ILP 189 Map 93M.092 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.47 US Elev. Bars ☒ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR
DS Elev. Magnitude 1 Setting VW Riparian Veg. S
Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 3006 UTM(Zone/East/North/Method) Site Lg 100 Access H Fish Crd? ☒ Date 1997/08/28

CHANNEL

Mean Channel Width (m) 1.3 Mean Wetted Width (m) 1.3 Mean Residual Pool Depth (m) 0.0
Mean Gradient 1.0 Mean Wb Depth 0.1 No Vis.Ch. ☐ Intermittent ☐
Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 6 pH 8.0 Cond. 220 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 0 % LWD N DIST NA

MORPHOLOGY

BED MATERIAL Dominant: G Subdom: F
D95: 3 D (cm): 3.5 Morph: RP
Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
Pattern ME Islands N Coupling DC Confinement UN
DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSIZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

B. Survey Information

Survey Date 1997/08/27 to 1997/08/27 Agency C172
Crew AL/CC/ Fish Collection Permit # 34770-20
General Comments
C-1 SHOCKED ENTIRE REACH. C-2 NO VISUAL OBS. OF FISH EITHER.

C Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
3006	EF	1		6	220		

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
3006	EF	1	1							

Engine Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Wdth	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
3006	EF	1	1	08/27		08/27		95	50	1	O								200	60	8	SMITH	12B

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # 1 Site # 3007

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 125 Map 93M.092 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 1.38 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting VW Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 3007 UTM(Zone/East/North/Method) Site Lg 160 Access H Fish Crd? ☒ Date 1997/08/28

CHANNEL

Mean Channel Width (m) 0.7 Mean Wetted Width (m) 0.6 Mean Residual Pool Depth (m) 0.1
 Mean Gradient 15.0 Mean Wb Depth 0.3 No Vis.Ch. ☐ Intermittent ☐
 Stage ☐ L ☒ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 9 pH 8.1 Cond. 40 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 60 % LWD F DIST C
 15 10 10 65

MORPHOLOGY

BED MATERIAL Dominant: G Subdom: F
 D95: 4 D (cm): 4 Morph: RP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern SI Islands N Coupling DC Confinement CO
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

Fisher College of Business

A. Location Referencing

Gaz Name	UNNAMED	Alias
Wrrshd Code	000-0125-000-000-000-000-000-000-000	
Reach # 1	Interim Locational ID:	Project ID 06KISP306800021998
(BCGS/NTS) Map # 93M.092		Locational Point # 00125

B. Survey Information

Survey Date 1997/08/27 to 1997/08/27 Agency C172
Crew AL/CC/ Fish Collection Permit # 34770-20
General Comments

C Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
3007	EF	1		9	40		

D Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
3007	EF	1	1							

Equal Gear Specifications

Site	Meth	#	H/P	T In	D Out	T Out	EF Sec	EF Lgth	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
3007	EF	1	1	08/27	08/27		179	120	0.5	O							300	60	8	SMITH	12B

E. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # 1 Site # 3008

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 108 Map 93M.092 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 4.5 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 16 Setting VW Riparian Veg. C
 Order 3 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 3008 UTM (Zone/East/North/Method) Site Lg 200 Access H Fish Crd? ☒ Date 1997/08/28

CHANNEL

Mean Channel Width (m) 4.6 Mean Wetted Width (m) 1.9 Mean Residual Pool Depth (m) 0.2
 Mean Gradient 10.0 Mean Wb Depth 0.5 No Vis.Ch. ☐ Intermittent ☐
 Stage ☐ L ☒ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 9 pH 8.5 Cond. 90 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD 10 B 50 C DP 10 OV 30 IV Total 10 % LWD F DIST C

MORPHOLOGY

BED MATERIAL Dominant: R Subdom: C
 D95: 70 D (cm): 30 Morph: SP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern SI Islands N Coupling CO Confinement EN

DISTURBANCE INDICATORS		O1	B1	B2	B3	D1	D2	D3
C1	C2	C3	C4	C5	S1	S2	S3	S4
☐	☐	☐	☐	☐	☐	☐	☐	☐

REACH FEATURES

SITE FEATURES

NID	Map #	Type	Ht.	Lgth.	No.	Roll Frame	UTM	Comment
							(Zone/Easting/Northing)	
4002	93M.092	C	8		3	24		CASCADE
4003	93M.082	C	2		3	27		CHUTE/CASCADE

FL/SZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

Figure 4

A. Location Referencing

Gaz Name	UNNAMED	Alias	
Wtrshd Code	000-0108-000-000-000-000-000-000-000		
Reach # 1	Interim	Locational ID:	Project ID 06KISP306800021998
(BCGS/NTS) Map #	93M.082	Locational Point #	00108

Survey Date	1997/08/28	to	1997/08/28	Agency	C172
Crew	AL/CC/			Fish Collection Permit #	34770-20
General Comments					
THIS TRIB " 00108" IS U/S OF FALLS ON M/S SHEDIN CRK					

c. Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
3008	EF	1		9	90		

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
3008	EF	1	1							

Ex. Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Wdth	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
3008	EF	1	1	08/28	1340	08/28	1410	376	150	2	O								300	60	8	SMITH	12B

FF. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

1 3009

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name

ILP 24 Map 93M.092 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 2.3 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR

DS Elev. Magnitude 1 Setting VW Riparian Veg. C

Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
3009 150 H ☒ 1997/08/28

CHANNEL

Mean Channel Width (m) 1.4 Mean Wetted Width (m) 1.4 Mean Residual Pool Depth (m) 0.1

Mean Gradient 5.5 Mean Wb Depth 0.2 No Vis.Ch. ☐ Intermittent ☐

Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 9 pH 7.8 Cond. 30 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 60 % LWD F DIST E
20 30 50

MORPHOLOGY

BED MATERIAL Dominant: G Subdom: C

D95: 60 D (cm): 8 Morph: SP

Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L

Pattern ST Islands N Coupling PC Confinement CO

DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3

C1 C2 C3 C4 C5 S1 S2 S3 S4 S5

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A: Location Referencing

B. Survey Information

Survey Date 1997/08/28 to 1997/08/28 Agency C172
Crew ALJCC/ Fish Collection Permit # 34770-20
General Comments
C-1 180sec. IN REACH 1 WHERE FISH FOUND, REMAINDER IN 25%+ GRADIENT = 0 FISH REACH-2

C Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
3009	EF	1		9	30		

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
3009	EF	1	1	DV			2	70	100	

E. Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Width	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
3009	EF	1	1	08/28	1615	08/28	1645	394	100	1	O								400	60	8	SMITH	12B

Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

2 3010

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP Map Reach # Sample Type

REACH ATTRIBUTES

Length (km) US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☒ MC ☐ DM ☐ WD ☐ NV ☐ TR
 DS Elev. Magnitude Setting Riparian Veg.
 Order BGC Zone Exposed/Eroded Landuse

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? ☒ Date

CHANNEL

Mean Channel Width (m) Mean Wetted Width (m) Mean Residual Pool Depth (m)
 Mean Gradient Mean Wb Depth No Vis.Ch. ☐ Intermittent ☐
 Stage ☐ L ☒ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☒ L ☐ C

COVER

COVER Total % DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☐ N ☒ D ☐ P ☒ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS

O1	B1	B2	B3	D1	D2	D3
☐	☐	☐	☐	☐	☐	☐
C1	C2	C3	C4	C5	S1	S2
☒	☐	☐	☐	☐	☐	☐
					S3	S4
					☒	☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A Location Referencing

B. Survey Information

Gaz Name		ROSENTHAL CRK.		Alias		Survey Date		1997/08/29		to 1997/08/29		Agency		C172	
Wtrshd Code		480-0278-003-680-000-000-000-000-000-000		Project ID		06KISP306800021998		Seq #		0		Crew		AL/CC/	
Reach #		2		Interim Locational ID:		Project ID		06KISP306800021998		General Comments		Fish Collection Permit #		34770-20	
(BCGS/NTS) Map #		93M.083		Locational Point #											

D. Fish Summary

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
3010	EF	1		6	100		

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
3010	EF	1	1							

E. Gear Specifications:

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Width	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
3010	EF	1	1	08/29	1000	08/29	1040	555	200	2	O								500	60	8	SMITH	12B

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

2 3011

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 155 Map 93M.083 Reach # 2 Sample Type B

REACH ATTRIBUTES

Length (km) 3.68 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 12 Setting VF Riparian Veg. C
 Order 3 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
 3011 240 H ☒ 1997/08/29

CHANNEL

Mean Channel Width (m) 7.1 Mean Wetted Width (m) 2.9 Mean Residual Pool Depth (m) 0.4
 Mean Gradient 18.0 Mean Wb Depth 0.8 No Vis.Ch. ☐ Intermittent ☐
 Stage ☐ L ☒ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 6 pH 7.5 Cond. 40 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 15 % LWD A DIST C
 10 60 20 10

MORPHOLOGY

BED MATERIAL Dominant: C Subdom: B
 D95: 100 D (cm): 90 Morph: SP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern SI Islands N Coupling PC Confinement CO
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

NID	Map #	Type	Ht.	Lgth.	No.	Roll	Frame	UTM	Comment
								(Zone/Easting/Northing)	
4004	93M.093	F	4	4	11				UPSTREAM END OF SITE.

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

Survey Date 1997/08/30 to 1997/08/30 Agency C172
Crew AL/CC/ Fish Collection Permit # 34770-20
General Comments
SHOCKED UNTIL CREEK WENT SUBTERRANEAN

C Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
3019	EF	1		5	90		

E. Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Width	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
3019	EF	1	1	08/30	1630	08/30	1645	101	40	1	O								300	60	8	SMITH	12B

F Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # 2 Site # 3020

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP Map Reach # Sample Type

REACH ATTRIBUTES

Length (km) US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☒ MC ☐ DM ☐ WD ☐ NV ☐ TR
 DS Elev. Magnitude Setting Riparian Veg.
 Order BGC Zone Exposed/Eroded Landuse

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? ☒ Date

CHANNEL

Mean Channel Width (m) Mean Wetted Width (m) Mean Residual Pool Depth (m)
 Mean Gradient Mean Wb Depth No Vis.Ch. ☐ Intermittent ☐
 Stage ☐ L ☒ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER Total % DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☐ N ☐ D ☒ P ☒ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS

O1	B1	B2	B3	D1	D2	D3
☐	☐	☒	☐	☐	☐	☐
C1	C2	C3	C4	C5	S1	S2
☐	☐	☐	☐	☐	☐	☐
S3	S4	S5				
☐	☐	☐				

REACH FEATURES

SITE FEATURES

FSIZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

Fish Dissection Form

A. Location Referencing

GazName	UNNAMED	Alias
Wtrshd Code	000-0155-000-000-000-000-000-000-000	Seq # 0
Reach # 1	Interim Locational ID:	Project ID 06KISP306800021998
(BCGS/NTS) Map # 93M.083		Locational Point # 00155

B. Survey Information

Survey Date 1997/08/29 to 1997/08/29 Agency C172
Crew AL/CC3/477 Fish Collection Permit # 0-20
General Comments

C. Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
3011	EF	1		6	40		

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
3011	EF	1	1							

E. Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF width	Encl	Nt Typ	Lgth	Dpth	Mesh	N Sz	Set	Hab	Volt	Freq	Pul	Make	Model
3011	EF	1	1	08/29	1230	08/29	1330	430	100	2	O								600	60	8	SMITH	12B

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

1 3012

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP Map Reach # Sample Type

REACH ATTRIBUTES

Length (km) US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR
 DS Elev. Magnitude Setting Riparian Veg.
 Order BGC Zone Exposed/Eroded Landuse

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? ☒ Date

CHANNEL

Mean Channel Width (m) Mean Wetted Width (m) Mean Residual Pool Depth (m)
 Mean Gradient Mean Wb Depth No Vis.Ch. ☐ Intermittent ☐
 Stage ☐ L ☐ M ☒ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☒ L ☐ C

COVER

COVER Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☒ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

NID	Map #	Type	Ht.	Lgth.	No.	Roll Frame	UTM	Comment
							(Zone/Easting/Northing)	
4006	93M.083	F	5		99	99		END OF FISH USE

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A Location Referencing

Gaz Name ROSENTHAL CRK.

Gaz Name	ROSENTHAL CRK.	Alias
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Wtrshd Code 480-0278-003-680-000-000-000-000-000-000

Reach # 1 Interim Locational ID: Project ID 06KSP306800021998

Locational Point #	(BCGS/NTS) Map #
1	93M 082

Seq # 0

Survey Date	1997/08/29	to	1997/08/29	Agency	C172
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Crew AL/CC/
Fish Collection Permit # 34770-20

General Comments

c. Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
3012	EF	1		7	60		

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
3012	EF	1	1	DV			8	98	170	

IF Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Wdth	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
3012	EF	1	1	08/29	1400	08/29	1420	187	100	1	0								400	60	8	SMITH	12B

Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # 1 Site # 3013

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP Map Reach # Sample Type

REACH ATTRIBUTES

Length (km) US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR
 DS Elev. Magnitude Setting Riparian Veg.
 Order BGC Zone Exposed/Eroded Landuse

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? ☒ Date

CHANNEL

Mean Channel Width (m) Mean Wetted Width (m) Mean Residual Pool Depth (m)
 Mean Gradient Mean Wb Depth No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

F/SZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

Survey Date 1997/08/29 to 1997/08/29 Agency C172
Crew AL/JCC/ Fish Collection Permit # 34770-20
General Comments
NO FISH SEEN OR CAUGHT

C Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
3013	EF	1		9	50		

Deish Summaro

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
3013	EF	1	1							

E. Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Width	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
3013	EF	1	1	08/29	1540	08/29	1630	201	1501	1	0								400	50	8	SMITH	12B

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # 1- Site # 3014

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 151 Map 93M.083 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 1.8 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting VW Riparian Veg. NS
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 3014 UTM(Zone/East/North/Method) Site Lg 10 Access H Fish Crd? ☐ Date 1997/08/29

CHANNEL

Mean Channel Width (m) 0.0 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 0.0 Mean Wb Depth 0.0 No Vis.Ch. ☒ Intermittent ☐
 Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

COVER

COVER SWD LWD B C DP OV IV Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # 1 Site # 3015

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP Map Reach # Sample Type

REACH ATTRIBUTES

Length (km) US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude Setting Riparian Veg.
 Order BGC Zone Exposed/Eroded Landuse

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? ☒ Date

CHANNEL

Mean Channel Width (m) Mean Wetted Width (m) Mean Residual Pool Depth (m)
 Mean Gradient Mean Wb Depth No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

NID	Map #	Type	Ht.	Lgth.	No.	Roll Frame	UTM	Comment
						No.	(Zone/Easting/Northing)	
4007	93M.092	F	40		4	26		ON ILP 500 93M.092 (NO SITE) 600M UPSTREAM.

F/SZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

B. Survey Information

Seq # 0

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
3015	EF	1	1							

Abstract

Length	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
						500	60	8	SMITH	12B

[illegible]

Touch #	Gen Str	Gen Smp #	Comments	Roll	Fr
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FDIS Reach/Site Summary

Reach # Site #

1 3016

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 12 Map 93M.092 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 1.5 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting VW Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 3016 UTM(Zone/East/North/Method) Site Lg 100 Access H Fish Crd? ☒ Date 1997/08/30

CHANNEL

Mean Channel Width (m) 0.8 Mean Wetted Width (m) 2.3 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 23.0 Mean Wb Depth 0.1 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 8.5 pH 7.6 Cond. 60 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 20 % LWD A DIST E
 40 40 10 10

MORPHOLOGY

BED MATERIAL Dominant: G Subdom: C
 D95: 3 D (cm): 3 Morph: SP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern ST Islands N Coupling DC Confinement EN

DISTURBANCE INDICATORS					O1	B1	B2	B3	D1	D2	D3			
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐			
					C1	C2	C3	C4	C5	S1	S2	S3	S4	S5
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

התאריך: 10.10.2019

A Location Referencing

Gaz Name	UNNAMED	Alias
Wrrshd Code	000-0012-000-000-000-000-000-000-000	
Reach # 1	Interim Locational ID:	Project ID 06KISP308000021998
(BCGS/NTS) Map # 93M.092		Locational Point # 00012

B. Survey Information

Survey Date 1997/08/30 to 1997/08/30 Agency C172
Crew AL/CC/ Fish Collection Permit # 34770-20
General Comments

C. Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
3016	EF	1		8.5	60		

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
3016	EF	1	1							

E. Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Width	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
3016	EF	1	1	08/30	1120	08/30	1140	245	150	0.5	O								500	60	8	SMITH	12B

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

5 3017

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP Map Reach # Sample Type

REACH ATTRIBUTES

Length (km) US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR
 DS Elev. Magnitude Setting Riparian Veg.
 Order BGC Zone Exposed/Eroded Landuse

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? ☒ Date

CHANNEL

Mean Channel Width (m) Mean Wetted Width (m) Mean Residual Pool Depth (m)
 Mean Gradient Mean Wb Depth No Vis.Ch. ☐ Intermittent ☐
 Stage ☐ L ☒ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☒ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☒ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☒ ☐ ☐ ☐ ☐ ☐ ☐ ☒ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

Fish Disease Collection Form

A. Location Referencing

Gaz Name SPERRY CRK.

Wtrshd Code 480-0278-002-940-000-000-000-000-000-000

Reach # 5 Interim Locational ID: Project ID 06KISP306800021998

(BCGS/NTS) Map #

Seq # 0

General Comments

Survey Date 1997/08/30 to 1997/08/30 Agency C172
Crew AUCC/ Fish Collection Permit # 34770-20

B. Survey Information

Survey Date 1997/08/30 to 1997/08/30 Agency C172
Crew AUCC/ Fish Collection Permit # 34770-20

C. Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
3017	EF	1		6	40		

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
3017	EF	1	1							

E: Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Width	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
3017	EF	1	1	08/30	1330	08/30	1415	291	400	1.5	0								500	60	8	SMITH	12B

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # 4 Site # 3018

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name SPERRY CREEK
ILP 905 Map 93M.082 Reach # 4 Sample Type B

REACH ATTRIBUTES

Length (km) 2.68 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☒ MC ☐ DM ☐ WD ☐ NV ☐ TR
DS Elev. Magnitude 78 Setting VF Riparian Veg. C
Order 4 BGC Zone ESSF Exposed/Eroded V Landuse NO

SITE ATTRIBUTES

Site # 3018 UTM(Zone/East/North/Method) Site Lg 450 Access H Fish Crd? ☐ Date 1997/08/30

CHANNEL

Mean Channel Width (m) 18.3 Mean Wetted Width (m) 13.0 Mean Residual Pool Depth (m) 0.0
Mean Gradient 5.5 Mean Wb Depth 1.0 No Vis.Ch. ☐ Intermittent ☐
Stage ☐ L ☒ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 6 pH 7.6 Cond. 40 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 15 % LWD N DIST NA
90 10

MORPHOLOGY

BED MATERIAL Dominant: C Subdom: B
D95: 100 D (cm): 75 Morph: CP
Bars ☐ N ☐ D ☐ P ☒ M ☐ T ☐ L
Pattern SI Islands N Coupling CO Confinement EN
DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☒ ☐ ☐ ☐ ☐
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # 1 Site # 3019

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 34 Map 93M.083 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.7 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 9 Setting VW Riparian Veg. C
 Order 2 BGC Zone ESSF Exposed/Eroded V Landuse NO

SITE ATTRIBUTES

Site # 3019 UTM(Zone/East/North/Method) Site Lg 100 Access H Fish Crd? ☒ Date 1997/08/30

CHANNEL

Mean Channel Width (m) 1.2 Mean Wetted Width (m) 1.2 Mean Residual Pool Depth (m) 0.1
 Mean Gradient 2.0 Mean Wb Depth 0.2 No Vis.Ch. ☐ Intermittent ☐
 Stage ☐ L ☒ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 5 pH 7.1 Cond. 90 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV
 10 40 10 40 40
 Total 20 % LWD F DIST E

MORPHOLOGY

BED MATERIAL Dominant: G Subdom: F
 D95: 3 D (cm): 3 Morph: RP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern SI Islands N Coupling PC Confinement FC
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

ESZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # Site #

1 3021

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
ILP 20 Map 93M.083 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.45 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
DS Elev. Magnitude 1 Setting VF Riparian Veg. C
Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
3021 100 H 1997/08/31

CHANNEL

Mean Channel Width (m) 0.8 Mean Wetted Width (m) 0.8 Mean Residual Pool Depth (m) 0.1
Mean Gradient 1.0 Mean Wb Depth 1.0 No Vis.Ch. ☐ Intermittent ☐
Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 8 pH 7.8 Cond. 150 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 75 % LWD F DIST E
5 5 90

MORPHOLOGY

BED MATERIAL Dominant: F Subdom: ☐
D95: 0.01 D (cm): Morph: RP
Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
Pattern IR Islands N Coupling DC Confinement CO
DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

HSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # 1 Site # 3022

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 19 Map 93M.083 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.34 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting VF Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 3022 UTM(Zone/East/North/Method) Site Lg 175 Access H Fish Crd? ☒ Date 1997/08/31

CHANNEL

Mean Channel Width (m) 11.0 Mean Wetted Width (m) 11.0 Mean Residual Pool Depth (m) 0.3
 Mean Gradient 1.8 Mean Wb Depth 0.5 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 9.5 pH 7.7 Cond. 170 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 10 % LWD F DIST E
 10 20 25 45

MORPHOLOGY

BED MATERIAL Dominant: F Subdom: C
 D95: 0.1 D (cm): 0.1 Morph: RP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern IR Islands N Coupling DC Confinement FC
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☒ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

Station Identification and Conditions

Engine Gear Specifications

For Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

2 3023

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 12 Map 93M.083 Reach # 2 Sample Type B

REACH ATTRIBUTES

Length (km) 0.58 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 2 Setting VW Riparian Veg. C
 Order 2 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 3023 UTM(Zone/East/North/Method) Site Lg 150 Access H Fish Crd? ☐ Date 1997/08/31

CHANNEL

Mean Channel Width (m) 0.7 Mean Wetted Width (m) 0.7 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 2.0 Mean Wb Depth 0.4 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 10 pH 7.6 Cond. 60 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 50 % LWD F DIST E
 20 5 75

MORPHOLOGY

BED MATERIAL Dominant: F Subdom: C
 D95: 20 D (cm): 2 Morph: RP

DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L

Pattern ST Islands N Coupling DC Confinement CO

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # 1 Site # 3024

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
ILP 13 Map 93M.083 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.46 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
DS Elev. Magnitude 1 Setting MP Riparian Veg. C
Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 3024 UTM (Zone/East/North/Method) Site Lg 10 Access H Fish Crd? ☐ Date 1997/08/31

CHANNEL

Mean Channel Width (m) 0.0 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0
Mean Gradient 0.0 Mean Wb Depth 0.0 No Vis.Ch. ☒ Intermittent ☐
Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

COVER

COVER SWD LWD B C DP OV IV Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
D95: D (cm): Morph:

DISTURBANCE INDICATORS
O1 ☐ B1 ☐ B2 ☐ B3 ☐ D1 ☐ D2 ☐ D3 ☐
C1 ☐ C2 ☐ C3 ☐ C4 ☐ C5 ☐ S1 ☐ S2 ☐ S3 ☐ S4 ☐ S5 ☐

Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☐ L
Pattern Islands Coupling Confinement

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☐

FDIS Reach/Site Summary

Reach # Site #

1 3025

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 14 Map 93M.083 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.75 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting VW Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
 3025 25 H ☐ 1997/08/31

CHANNEL

Mean Channel Width (m) 0.0 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 0.0 Mean Wb Depth 0.0 No Vis.Ch. ☒ Intermittent ☐
 Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

COVER

COVER SWD LWD B C DP OV IV Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # Site #

1- 3026

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name SPERRY CREEK
ILP 905 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 1.69 US Elev. Bars N DI PT CS JN MC DM WD NV TR
DS Elev. Magnitude 161 Setting VF Riparian Veg. C
Order 4 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
3026 300 H X 1997/09/01

CHANNEL

Mean Channel Width (m) 28.0 Mean Wetted Width (m) 24.5 Mean Residual Pool Depth (m) 1.0
Mean Gradient 4.8 Mean Wb Depth 1.5 No Vis.Ch. Intermittent
Stage L M H Dw Tribs.

WATER

Temp. 5.5 pH 7.7 Cond. 70 Turb. T M L C

COVER

COVER SWD LWD B C DP OV IV Total 20 % LWD A DIST C
10 40 20 0 10 20 0

MORPHOLOGY

BED MATERIAL Dominant: C Subdom: B
D95: 80 D (cm): 70 Morph: CP
Bars N D P M T L
Pattern IR Islands O Coupling CO Confinement CO
DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
X

REACH FEATURES

SITE FEATURES

NID Roll Frame UTM
NID Map # Type Ht. Lgth. No. No. (Zone/Easting/Northing) Comment
4008 93M.083 C 100 300 20 32 CASCADE

FSZ

TRIB SC FC SWP/SLG FL/BV

Accompanying Reach or Site Comments ? X

Fish Data Collection Form

A. Location/Referencing

Gaz Name SPERRY CRK. Alias
 Wtrshd Code 480-0278-002-940-000-000-000-000-000 Seq # 0
 Reach # 1 Interim Locational ID: Project ID 06KISP306800021998
 (BCGS/NTS) Map # 93M.083 Locational Point #

B. Survey Information

Survey Date 1997/09/01 to 1997/09/01 Agency C172
 Crew AL/CC/ Fish Collection Permit # 34770-20
 General Comments
 C1- HIGH VELOCITY IS WHERE LARGER FISH WERE NOTICED BY EF. BUT NOT CAPTURED. C2- 5 OTHER VO's OF SALMOIDS. LIKLY DV.

C. Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
3026	EF	1		5.5	70		

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
3026	EF	1	1	DV			1	65	65	

E. Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Wdth	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
3026	EF	1	1	09/01	1040	09/01	1120	300	170	1.5	O					400	70	8				SMITH	12B

F. Individual Fish Data

Site	Meth	#	H/P	Species	Lgth	Wgt	Sex	Mat	Age Str	Age Smp #	Age	Vouch #	Gen Str	Gen Smp #	Comments	Roll	Fr
3026	EF	1	1	DV	65										BRACHI RAYS = 22, FR. 26+27	20	26

FDIS Reach/Site Summary

Reach # Site #

2 3027

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 118 Map 93M.082 Reach # 2 Sample Type B

REACH ATTRIBUTES

Length (km) 0.39 US Elev. 660 Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR
 DS Elev. 640 Magnitude 2 Setting PN Riparian Veg. NS
 Order 2 BGC Zone ESSF Exposed/Eroded NV Landuse NS

SITE ATTRIBUTES

Site # 3027 UTM(Zone/East/North/Method) Site Lg 150 Access H Fish Crd? ☒ Date 1997/09/01

CHANNEL

Mean Channel Width (m) 1.2 Mean Wetted Width (m) 1.1 Mean Residual Pool Depth (m) 0.1
 Mean Gradient 16.0 Mean Wb Depth 0.3 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 8 pH 7.7 Cond. 60 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 30 % LWD F DIST E
 10 10 20 10 50

MORPHOLOGY

BED MATERIAL Dominant: G Subdom: C
 D95: 25 D (cm): 8 Morph: SP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern ST Islands N Coupling DC Confinement CO
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

IFSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

Fish Dissection Form

A Location Referencing

Gaz Name UNNAMED

[illegible]Reach # 1
Interim Locational ID: Project ID 06KISP306800021998(BCGSN/NTS) Map # 93M.082
Locational Point # 00118

Seq # 0

B. Survey Information

Survey Date	1997/09/01	to 1997/09/01	Agency	C172

Crew AL/CC/
Fish Collection Permit # 34770-20

General Comments

C1- SHOCKED ENTIRE REACH = 0 FISH. C2- REACH-1 IS STEEP GRADIENT, NO FISH ACCESS FROM ROSENTHAL CRK.

C Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
3027	EF	1		8	60		

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
3027	EF	1	1							

E Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Width	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
3027	EF	1	1	09/01	1300	09/01	1330	152	100	1	O								800	60	8	SMITH	12B

Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

1 3028

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 199 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 2 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
 DS Elev. Magnitude 1 Setting MP Riparian Veg. S
 Order 1 BGC Zone AT Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
 3028 300 H ☒ 1997/09/01

CHANNEL

Mean Channel Width (m) 1.7 Mean Wetted Width (m) 1.7 Mean Residual Pool Depth (m) 0.2
 Mean Gradient 1.5 Mean Wb Depth 0.2 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 16 pH Cond. Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV
 100 Total 2 % LWD N DIST NA

MORPHOLOGY

BED MATERIAL Dominant: G Subdom: C
 D95: 35 D (cm): 2 Morph: RP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern SI Islands N Coupling DC Confinement CO
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A- Location Referencing

Gaz Name	UNNAMED	Alias
W/trsd Code	000-07199-000-000-000-000-000-000-000	
Reach # 1	Interim Locational ID:	Project ID 06KISP306800021998
(BCGS/NTS) Map # 93M.082		Locational Point # 00199

B. Survey Information

Survey Date 1997/09/01 to 1997/09/01 Agency C172
Crew AL/CC/ Fish Collection Permit # 34770-20
General Comments
C1- ELECTRO SHOCKING WAS TURNING FRESH WATER SHRIMP.

© Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
3028	EF	1		16			

D Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
3028	EF	1	1							

E Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Width	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
3028	EF	1	1	09/01	1440	09/01	1520	384	300	1	O								600	60	8	SMITH	12B

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # 1 Site # 3029

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 130 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 5.83 US Elev. Bars ☐ N ☐ DI ☒ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR
 DS Elev. Magnitude 25 Setting VF Riparian Veg. C
 Order 3 BGC Zone ESSF Exposed/Eroded V Landuse NO

SITE ATTRIBUTES

Site # 3029 UTM(Zone/East/North/Method) Site Lg 150 Access H Fish Crd? ☒ Date 1997/09/01

CHANNEL

Mean Channel Width (m) 8.7 Mean Wetted Width (m) 3.3 Mean Residual Pool Depth (m) 0.6
 Mean Gradient 7.3 Mean Wb Depth 1.5 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 9.5 pH 7.7 Cond. 70 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 30 % LWD F DIST E

MORPHOLOGY

BED MATERIAL Dominant: B Subdom: R
 D95: 85 D (cm): 90 Morph: SP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern ST Islands N Coupling CO Confinement EN
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

NID	NID Map #	Type	Ht.	Lgth.	Roll No.	Frame No.	UTM (Zone/Easting/Northing)	Comment
4009	93M.082	F	10		9	4		SERIES OF FALLS, LARGEST IN AERIAL PHOTO AT BOTTOM OF FRAME.
4010	93M.082	F	4		9	10		
2005	93M.082	F	8		9	12		

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

Fish Data Collection Form

A. Location Referencing

Gaz Name	UNNAMED	Alias	
Wtrshd Code	000-0130-000-000-000-000-000-000		
Reach # 1	Interim	Locational ID:	Project ID 06KISP306800021998
(BCGS/NTS)	Map # 93M.082		Locational Point # 001'30

B. Survey Information

Survey Date 1997/09/01 to 1997/09/01 Agency C172
Crew AL/CC/ Fish Collection Permit # 34770-20
General Comments

C. Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
3029	EF	1		9.5	70		

D. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
3029	EF	1	1							

E Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Width	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
3029	EF	1	1	09/01	1550	09/01	1700	361	300	2	O								400	60	8	SMITH	12B

E. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

1 3030

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

WATERSHIED

Gazetted Name Local Name
 ILP 132 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 0.9 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR
 DS Elev. Magnitude 1 Setting MP Riparian Veg. NS
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NS

SITE ATTRIBUTES

Site # 3030 UTM(Zone/East/North/Method) Site Lg 10 Access H Fish Crd? ☐ Date 1997/09/01

CHANNEL

Mean Channel Width (m) 0.0 Mean Wetted Width (m) 0.0 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 0.0 Mean Wb Depth 0.0 No Vis.Ch. ☒ Intermittent ☐
 Stage ☐ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. pH Cond. Turb. ☐ T ☐ M ☐ L ☐ C

COVER

COVER SWD LWD B C DP OV IV Total % LWD DIST

MORPHOLOGY

BED MATERIAL Dominant: Subdom:
 D95: D (cm): Morph:
 Bars ☐ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern Islands Coupling Confinement
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

NFSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # 6 Site # 3031

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name SHEDIN CREEK
ILP 900 Map 93M.092 Reach # 6 Sample Type B

REACH ATTRIBUTES

Length (km) 14 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☒ NV ☐ TR
DS Elev. Magnitude 100 Setting VF Riparian Veg. C
Order 5 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 3031 UTM(Zone/East/North/Method) Site Lg 450 Access H Fish Crd? ☒ Date 1997/09/02

CHANNEL

Mean Channel Width (m) 19.0 Mean Wetted Width (m) 16.5 Mean Residual Pool Depth (m) 1.0
Mean Gradient 1.5 Mean Wb Depth 1.5 No Vis.Ch. ☐ Intermittent ☐
Stage ☐ L ☒ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 9 pH 7.6 Cond. 50 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 40 % LWD F DIST E
 90 5 5

MORPHOLOGY

BED MATERIAL Dominant: B Subdom: C
D95: 80 D (cm): 90 Morph: RP
DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
Bars ☐ N ☐ D ☐ P ☒ M ☐ T ☐ L
Pattern IR Islands N Coupling CO Confinement EN

REACH FEATURES

SITE FEATURES

NID	Map #	Type	Ht.	Lgth.	No.	Roll	Frame	UTM	Comment
								(Zone/Easting/Northing)	
4011	93M.092	F	15		9	17			

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A Location Referencing

B. Survey Information

Survey Date 1997/09/02 to 1997/09/02 Agency C172
Crew AL/CC/ Fish Collection Permit # 34770-20
General Comments
C1- SECOND SAMPLE IN THIS REACH, 1st SAMPLE DONE IN FALL OF 1996= 0 FISH.

C. Stallion Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
3031	EF	1		9	50		

Dr. Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
3031	EF	1	1							

Key Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Width	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
3031	EF	1	1	09/02	0920	09/02	1000	470	400	2	O								400	60	8	SMITH	12B

F. Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

1 3032

Watershed Code: 000-000000-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 128 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 1.15 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR
 DS Elev. Magnitude 1 Setting MP Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 3032 UTM(Zone/East/North/Method) Site Lg 150 Access H Fish Crd? ☐ Date 1997/09/02

CHANNEL

Mean Channel Width (m) 1.4 Mean Wetted Width (m) 1.0 Mean Residual Pool Depth (m) 0.0
 Mean Gradient 4.5 Mean Wb Depth 0.1 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 9.5 pH 7.4 Cond. 30 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 90 % LWD F DIST E
 5 5 5 85

MORPHOLOGY

BED MATERIAL Dominant: G Subdom: C
 D95: 10 D (cm): 2 Morph: NS
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern SI Islands N Coupling PC Confinement CO
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

FDIS Reach/Site Summary

Reach # 1 Site # 3033

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 110 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 1.84 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR
 DS Elev. Magnitude 2 Setting VW Riparian Veg. C
 Order 2 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # 3033 UTM(Zone/East/North/Method) Site Lg 200 Access H Fish Crd? ☒ Date 1997/09/02

CHANNEL

Mean Channel Width (m) 2.4 Mean Wetted Width (m) 1.6 Mean Residual Pool Depth (m) 0.1
 Mean Gradient 8.3 Mean Wb Depth 0.0 No Vis.Ch. ☐ Intermittent ☐
 Stage ☐ L ☒ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 10 pH 7.7 Cond. 70 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 40 % LWD F DIST E

MORPHOLOGY

BED MATERIAL Dominant: C Subdom: G
 D95: 45 D (cm): 6 Morph: SP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern ST Islands N Coupling PC Confinement CO
 DISTURBANCE INDICATORS O1 ☐ B1 ☐ B2 ☐ B3 ☐ D1 ☐ D2 ☐ D3 ☐
 C1 ☐ C2 ☐ C3 ☐ C4 ☐ C5 ☐ S1 ☐ S2 ☐ S3 ☐ S4 ☐ S5 ☐

REACH FEATURES

SITE FEATURES

NID	Map #	Type	Ht.	Lgth.	No.	Roll Frame	UTM	Comment
							(Zone/Easting/Northing)	
4012	93M.082	F	20		9	26		FALLS AT CONFLUENCE WITH SHEDIN.

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

Fisht Dissection For Fun

A. Location Referencing

Gaz Name	UNNAMED	Alias
Wtrshd Code	000-0110-000-000-000-000-000-000	
Reach # 1	Interim Locational ID:	Project ID 06KISP306800021998
(BCGS/NTS) Map # 93M.082		Locational Point # 00110

B. Survey Information

Survey Date	1997/09/02	to	1997/09/02	Agency	C172
Crew	AL/CC/			Fish Collection Permit #	34770-20
General Comments					
C1- SHOCKED ALL HABITAT FROM U/S OF FALLS AT SHEDIN TO CONFLUENCE WITH ILLP 00111. C2- NO FISH ACCESS FROM SHEDIN CRK.					

6 Station Identification and Conditions

Site	Method	#	UTM Coordinates	Temp	Con	Vis	Turb
3033	EF	1		10	70		

D₁ Fish Summary

Site	Meth	#	H/P	Species	Stage	Age	Tot #	Min Lgth	Max Lgth	Fish Act
3033	EF	1	1							

Ex Gear Specifications

Site	Meth	#	H/P	D In	T In	D Out	T Out	EF Sec	EF Lgth	EF Width	Encl	Nt Typ	Lgth	Dpth	Mesh	IN Sz	Set	Hab	Volt	Freq	Pul	Make	Model
3033	EF	1	1	09/02	1310	09/02	1400	250	200	1	O								400	60	8	SMITH	12B

F Individual Fish Data

[illegible]

FDIS Reach/Site Summary

Reach # Site #

1 3034

Watershed Code: 000-000000-00000-00000-0000-0000-000-000-000-000-000

WATERSHED

Gazetted Name Local Name
 ILP 111 Map 93M.082 Reach # 1 Sample Type B

REACH ATTRIBUTES

Length (km) 1.5 US Elev. Bars ☐ N ☐ DI ☐ PT ☐ CS ☐ JN ☐ MC ☐ DM ☐ WD ☐ NV ☐ TR
 DS Elev. Magnitude 1 Setting MP Riparian Veg. C
 Order 1 BGC Zone ESSF Exposed/Eroded NV Landuse NO

SITE ATTRIBUTES

Site # UTM(Zone/East/North/Method) Site Lg Access Fish Crd? Date
 3034 150 H ☒ 1997/09/02

CHANNEL

Mean Channel Width (m) 1.7 Mean Wetted Width (m) 1.0 Mean Residual Pool Depth (m) 0.1
 Mean Gradient 9.5 Mean Wb Depth 0.2 No Vis.Ch. ☐ Intermittent ☐
 Stage ☒ L ☐ M ☐ H Dw ☐ Tribs. ☐

WATER

Temp. 10 pH 7.7 Cond. 70 Turb. ☐ T ☐ M ☐ L ☒ C

COVER

COVER SWD LWD B C DP OV IV Total 25 % LWD F DIST E
 5 10 10 5 70

MORPHOLOGY

BED MATERIAL Dominant: C Subdom: G
 D95: 27 D (cm): 4 Morph: SP
 Bars ☒ N ☐ D ☐ P ☐ M ☐ T ☐ L
 Pattern ST Islands N Coupling PC Confinement CO
 DISTURBANCE INDICATORS O1 B1 B2 B3 D1 D2 D3
☐ ☐ ☐ ☐ ☐ ☐ ☐
 C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

REACH FEATURES

SITE FEATURES

FSZ

TRIB ☐ SC ☐ FC ☐ SWP/SLG ☐ FL/BV ☐

Accompanying Reach or Site Comments ? ☒

A. Location Referencing

B. Survey Information

C Station Identification and Conditions

D. Fish Summary

E: Gear Specifications

For Individual Fish Data

[illegible]

Appendix C - Photograph Captions and Contact Sheets

Photo Date	Watershed/ Working area	Stream Name or ILP	ILP Mapsheet	Card Site #	Site or Feature NID	NID Mapsheet #	Roll #	Frame #	CD#	Folder	Image	Focal Length (St, Wd, Te)	Dir (Up, Dn, Xs, Fish, Ae)	Comments (Description and/or scale item)
97-Aug-27	Shedin	00157	93M.092	1001	01001	93M.092	1	1	KISP10X	1	1	St	Up	No visible channel, swamp.
97-Aug-27	Shedin	00157	93M.092	1001	01001	93M.092	1	2	KISP10X	1	2	St	Up	No visible channel, swamp, hat in photo.
97-Aug-27	Shedin	00155	93M.092	1002	01002	93M.092	1	3	KISP10X	1	3	St	Dn	Channel through wetland, 2 people in background
97-Aug-27	Shedin	00155	93M.092	1002	01002	93M.092	1	4	KISP10X	1	4	St	Up	Channel through wetland, forest edge.
97-Aug-28	Shedin	00143	93M.092	1004	01004	93M.092	1	5	KISP10X	1	5	St	Dn	Intermittent channel in swamp, partially subterranean.
97-Aug-28	Shedin	00143	93M.092	1004	01004	93M.092	1	6	KISP10X	1	6	St	Dn	Helicopter in B/G.
97-Aug-28	Shedin	00128	93M.092	1005	01005	93M.092	1	7	KISP10X	1	7	St	Up	Intermittent channel in swamp.
97-Aug-28	Shedin	00128	93M.092	1005	01005	93M.092	1	8	KISP10X	1	8	St	Up	Orange jacket on river right, small channel.
97-Aug-28	Shedin	00128	93M.092	1005	01005	93M.092	1	9	KISP10X	1	9	St	Up	Channel with grasses on banks.
97-Aug-28	Shedin	00128	93M.092	1005	01005	93M.092	1	10	KISP10X	1	10	St	Up	Channel with slow moving water.
97-Aug-28	Shedin	00181	93M.092	1006	01006	93M.092	1	11	KISP10X	1	11	St	Dn	Wide channel, run.
97-Aug-28	Shedin	00181	93M.092	1006	01006	93M.092	1	12	KISP10X	1	12	St	Up	Wide channel, run.
97-Aug-28	Shedin	00181	93M.092	1006	01006	93M.092	1	13	KISP10X	1	13	St	Dn	Wide channel, run, LED with minnow trap.
97-Aug-28	Shedin	00094	93M.092	1007	01007	93M.092	1	14	KISP10X	1	14	St	Dn	Small stream, extensive O/H riparian vegetation.
97-Aug-28	Shedin	00094	93M.092	1007	01007	93M.092	1	15	KISP10X	1	15	St	Up	Small stream, extensive O/H riparian vegetation.
97-Aug-28	Shedin	00087	93M.092	1008	01008	93M.092	1	16	KISP10X	1	16	St	Xs	No visible channel, mud and seepage
97-Aug-28	Shedin	00087	93M.092	1008	01008	93M.092	1	17	KISP10X	1	17	St	Xs	No visible channel, mud and seepage
97-Aug-28	Shedin	Shedin Cre	93M.092	1009	01009	93M.092	1	19	KISP10X	1	19	Te	Fish	DV 60mm
97-Aug-28	Shedin	Shedin Cre	93M.092	1009	01009	93M.092	1	20	KISP10X	1	20	St	Up	Rifle, MS on left bank, orange jacket.
97-Aug-28	Shedin	Shedin Cre	93M.092	1009	01009	93M.092	1	21	KISP10X	1	21	St	Dn	Rifle, boulders on left bank.
97-Aug-28	Shedin	00005	93M.092	1010	01010	93M.092	1	22	KISP10X	1	22	St	Dn	Wand on right bank, seepage.
97-Aug-28	Shedin	00005	93M.092	1010	01010	93M.092	1	23	KISP10X	1	23	St	Up	Seepage zone w/extensive O/H riparian veg (fern foreground)
97-Aug-29	Shedin	00134	93M.092	1011	01011	93M.092	1	24	KISP10X	1	24	St	Up	SB with meterstick left bank
97-Aug-29	Shedin	00134	93M.092	1011	01011	93M.092	1	25	KISP10X	1	25	St	Dn	SB with notebook left bank
97-Aug-29	Shedin	00134	93M.092	1011	01011	93M.092	1	26	KISP10X	1	26	St	Dn	Ponded area, blue hat foreground.
97-Aug-29	Shedin	Dumsulo (	93M.092	1005	02001	93M.092	1	26	KISP10X	1	26	St	Ae	Falls in lower Dumsulo (Reach 1)

Photo Date	Watershed/ Working area	Stream Name or ILP	ILP Mapsheet	Card Site #	Site or Feature NID	NID Mapsheet #	Roll #	Frame #	CD#	Folder	Image	Focal Length (St, Wd, Te)	Dir (Up, Dn, Xs, Fish, Ae)	Comments (Description and/or scale item)
97-Aug-29	Shedin	Dumsulo (	93M.092	1005	02002	93M.092	1	27	KISPIOX	1	27	St	Ae	Falls in lower Dumsulo (Reach 1)
97-Aug-29	Shedin	Dumsulo (	93M.092	1005	02002	93M.092	1	28	KISPIOX	1	28	St	Ae	Falls in lower Dumsulo (Reach 1)
97-Aug-29	Shedin	00122	93M.082	1012	02003	93M.082	1	31	KISPIOX	1	31	St	Up	Falls with wand on left side 40m d/s of lake
97-Aug-29	Shedin	00122	93M.082	1012	01012	93M.082	1	33	KISPIOX	1	33	Te	Fish	DV 95mm
97-Aug-29	Shedin	00122	93M.082	1013	01013	93M.082	1	34	KISPIOX	1	34	Te	Fish	DV 170 caught at mouth of inlet stream
97-Aug-29	Shedin	00122	93M.082	1013	01013	93M.082	1	35	KISPIOX	1	35	Te	Fish	DV 170 caught at mouth of inlet stream
97-Aug-29	Shedin	00122	93M.082	1013	01013	93M.082	1	36	KISPIOX	1	36	St	Up	Small woody debris in murky water 50m u/s.
97-Aug-29	Shedin	00122	93M.082	1013	01013	93M.082	1	37	KISPIOX	1	37	St	Dn	Extensive O/H vegetation
97-Aug-29	Shedin	00122	93M.082	1013	01013	93M.082	2	1	KISPIOX	2	1	St	Dn	Reeds, at mouth of stream.
97-Aug-29	Shedin	00162	93M.082	1014	01014	93M.082	2	2	KISPIOX	2	2	St	Up	Small stream with extensive O/H vegetation, blue thermometer in stream.
97-Aug-29	Shedin	00162	93M.082	1014	01014	93M.082	2	3	KISPIOX	2	3	St	Dn	15 m upstream of confluence with LP 00161, devil's club.
97-Aug-29	Shedin	00161	93M.082	1015	01015	93M.082	2	5	KISPIOX	2	5	St	Up	Functional LWD, yellow jacket.
97-Aug-29	Shedin	00161	93M.082	1015	01015	93M.082	2	6	KISPIOX	2	6	St	Dn	Mossy LWD left bank.
97-Aug-29	Shedin	00161	93M.082	1015	01015	93M.082	2	7	KISPIOX	2	7	St	Up	LWD and gravel/cobble.
97-Aug-29	Shedin	00161	93M.082	1015	01015	93M.082	2	8	KISPIOX	2	8	St	Dn	Yellow jacket in background.
97-Aug-29	Shedin	00161	93M.082	1015	02004	93M.082	2	10	KISPIOX	2	10	St	Ae	Dark photo, shows 6m falls at mouth of stream.
97-Aug-29	Shedin	00131	93M.082	1016	01016	93M.082	2	11	KISPIOX	2	11	St	Up	1.5m LWD barrier
97-Aug-29	Shedin	00131	93M.082	1016	01016	93M.082	2	12	KISPIOX	2	12	St	Up	1.5m LWD barrier
97-Aug-29	Shedin	00131	93M.082	1016	01016	93M.082	2	13	KISPIOX	2	13	St	Dn	Overhanging vegetation with blue hat on left.
97-Aug-30	Shedin	00174	93M.082	1019	01019	93M.082	2	16	KISPIOX	2	16	St	Dn	Small channel, extensive O/H vegetation.
97-Aug-30	Shedin	00174	93M.082	1019	01019	93M.082	2	18	KISPIOX	2	18	St	Dn	Small channel, extensive O/H vegetation.
97-Aug-30	Shedin	00174	93M.082	1019	01019	93M.082	2	19	KISPIOX	2	19	St	Up	Small channel, extensive O/H vegetation.
97-Aug-30	Shedin	00174	93M.082	1019	01019	93M.082	2	20	KISPIOX	2	20	St	Up	Small channel, extensive O/H vegetation.
97-Aug-30	Shedin	00174	93M.082	1019	01019	93M.082	2	21	KISPIOX	2	21	St	Up	Devil's club over channel.
97-Aug-30	Shedin	00174	93M.082	1019	01019	93M.082	2	22	KISPIOX	2	22	St	Up	Devil's club over channel.

Photo Date	Watershed/ Working area	Stream Name or ILP	ILP Mapsheet	Card Site #	Site or Feature NID	NID Mapsheet #	Roll #	Frame #	CD#	Folder	Image	Focal Length (St, Wd, Te)	Dir (Up, Dn, Xs, Fish, Ae)	Comments (Description and/or scale item)
97-Aug-30	Shedin	00133	93M.082	1021	01021	93M.082	13	4	KISPIOX	13	4	St	Up	Extensive O/H vegetation.
97-Aug-30	Shedin	00133	93M.082	1021	01021	93M.082	13	5	KISPIOX	13	5	St	Up	Good mix of cover types and channel morphology.
97-Aug-30	Shedin	00136	93M.082	1023	01023	93M.082	13	6	KISPIOX	13	6	St	Up	Person on left bank in shrub layer riparian zone
97-Aug-30	Shedin	00136	93M.082	1023	01023	93M.082	13	7	KISPIOX	13	7	St	Dn	Extensive O/H veg.
97-Aug-30	Shedin	00130	93M.082	1016	02005	93M.082	13	8	KISPIOX	13	8	St	Ae	8m falls at mouth of ILP 00130
97-Aug-30	Shedin	00168	93M.082	1024	01024	93M.082	13	9	KISPIOX	13	9	St	Up	Salmonberry, shocker pole on photo right.
97-Aug-30	Shedin	00168	93M.082	1024	01024	93M.082	13	10	KISPIOX	13	10	St	Dn	Shrub layer with sunspot on leaves.
97-Aug-30	Shedin	00168	93M.082	1024	01024	93M.082	13	11	KISPIOX	13	11	St	Xs	Camera bag on mossy LWD.
97-Aug-30	Shedin	00169	93M.082	1025	01025	93M.082	13	13	KISPIOX	13	13	St	Dn	No visible channel seepage zone, two persons on right.
97-Aug-30	Shedin	00169	93M.082	1025	01025	93M.082	13	14	KISPIOX	13	14	St	Ae	Aerial view of seepage, no visible channel
97-Aug-30	Shedin	00167	93M.082	1024	02006	93M.082	13	16	KISPIOX	13	16	St	Ae	Aerial view of 3m falls barrier 200 m upstream on ILP 00167.
97-Aug-30	Shedin	00171	93M.082	1026	01026	93M.082	13	18	KISPIOX	13	18	St	Up	Blue hat on log, pool.
97-Aug-30	Shedin	00171	93M.082	1026	01026	93M.082	13	19	KISPIOX	13	19	St	Dn	First aid kit on right, mossy overstream logs.
97-Aug-30	Shedin	00171	93M.082	1026	01026	93M.082	13	20	KISPIOX	13	20	St	Fish	DV 63mm on wand
97-Aug-30	Shedin	00171	93M.082	1026	01026	93M.082	13	22	KISPIOX	13	22	St	Up	Functioning LWD, person electroshocking
97-Aug-30	Shedin	00171	93M.082	1026	01026	93M.082	13	23	KISPIOX	13	23	St	Up	SWD and LWD small debris jam, person's legs.
97-Aug-30	Shedin	00172	93M.082	1027	01027	93M.082	13	25	KISPIOX	13	25	St	Up	Dry channel, riparian veg, person on back left.
97-Aug-31	Shedin	00036	93M.092	1028	01028	93M.092	13	26	KISPIOX	13	26	St	Dn	Alpine section of stream, snow left bank.
97-Aug-31	Shedin	00036	93M.092	1028	01028	93M.092	13	27	KISPIOX	13	27	St	Up	Alpine section of stream, extensive riffles.
97-Aug-31	Shedin	00036	93M.092	1028	01028	93M.092	13	33	KISPIOX	13	33	St	Ae	Series of falls/cascades from mouth of stream (downstream of site)
97-Aug-31	Shedin	00104	93M.082	1031	01031	93M.082	13	34	KISPIOX	13	34	St	Up	Mossy log across channel
97-Aug-31	Shedin	00104	93M.082	1031	01031	93M.082	13	35	KISPIOX	13	35	St	Dn	Confluence with Shedin Creek
97-Aug-31	Shedin	00104	93M.082	1031	01031	93M.082	13	36	KISPIOX	13	36	St	Up	Mossy LWD on right.
97-Aug-31	Shedin	00104	93M.082	1031	01031	93M.082	13	37	KISPIOX	13	37	St	Up	Small steps, field vest in lower left.
97-Aug-31	Shedin	00104	93M.082	1031	01031	93M.082	15	1	KISPIOX	15	1	Te	Fish	DV 125 mm

Photo Date	Watershed/ Working area	Stream Name or ILP	ILP Mapsheet	Card Site #	Site or Feature NID	NID Mapsheet #	Roll #	Frame #	CD#	Folder	Image	Focal Length (St, Wd, Te)	Dir (Up, Dn, Xs, Fish, Ae)	Comments (Description and/or scale item)
97-Aug-31	Shedin	00109	93M.082	1032	01032	93M.082	15	3	KISP10X	15	3	St	Up	Stump on left, sunspot on small step. Very dark.
97-Aug-31	Shedin	00109	93M.082	1032	01032	93M.082	15	4	KISP10X	15	4	St	Dn	Person in foreground, log above channel
97-Aug-31	Shedin	00109	93M.082	1032	01032	93M.082	15	6	KISP10X	15	6	Te	Fish	DV 135mm
97-Aug-31	Shedin	Shedin Cre	93M.083	1033	01033	93M.083	15	10	KISP10X	15	10	St	Fish	Bucket of fish
97-Aug-31	Shedin	Shedin Cre	93M.083	1033	01033	93M.083	15	11	KISP10X	15	11	Te	Fish	DV 65mm
97-Aug-31	Shedin	Shedin Cre	93M.083	1033	01033	93M.083	15	12	KISP10X	15	12	St	Up	Shedin Creek on corner, riffle, two people in foreground.
97-Sep-1	Shedin	00251	93M.083	1035	01035	93M.083	15	16	KISP10X	15	16	St	Up	Pool and small bedrock chute.
97-Sep-1	Shedin	00251	93M.083	1035	01035	93M.083	15	17	KISP10X	15	17	Te	Fish	DV 105mm
97-Sep-1	Shedin	00251	93M.083	1035	02008	93M.083	15	19	KISP10X	15	19	St	Up	3m falls and pool
97-Sep-1	Shedin	00251&00	93M.083	1035&1	01035	93M.083	15	20	KISP10X	15	20	St	Xs	Confluence of ILP 00251 and 00063
97-Sep-1	Shedin	00063	93M.083	1036	01036	93M.083	15	22	KISP10X	15	22	Te	Fish	DV 60mm
97-Sep-1	Shedin	00063	93M.083	1036	01036	93M.083	15	23	KISP10X	15	23	Te	Fish	DV 35mm
97-Sep-1	Shedin	00063	93M.083	1036	01036	93M.083	15	24	KISP10X	15	24	St	Up	Logs over channel, alder in sun.
97-Sep-1	Shedin	00063	93M.083	1036	01036	93M.083	15	25	KISP10X	15	25	St	Dn	Riffle in shade, sun downstream
97-Sep-1	Shedin	00063	93M.083	1036	01036	93M.083	15	26	KISP10X	15	26	St	Up	Mossy LWD in foreground
97-Sep-1	Shedin	00063	93M.083	1036	02010	93M.083	15	27	KISP10X	15	27	St	Up	8 m falls at ~300m upstream of confluence
97-Sep-1	Shedin	00063	93M.083	1036	02010	93M.083	15	28	KISP10X	15	28	St	Up	8 m falls at ~300m upstream of confluence
97-Sep-1	Shedin	00065	93M.082	1037	01037	93M.082	15	29	KISP10X	15	29	Te	Fish	DV 48 mm
97-Sep-1	Shedin	00065	93M.082	1037	02011	93M.082	15	31	KISP10X	15	31	St	Up	7.3 m falls at mouth (fish captured upstream)
97-Sep-1	Shedin	00065	93M.082	1037	1037	93M.082	15	32	KISP10X	15	32	St	Up	Vest in foreground, channel with mossy log and boulder.
97-Sep-1	Shedin	00065	93M.082	1037	1037	93M.082	15	34	KISP10X	15	34	Te	Fish	DV on wand 140mm
97-Sep-1	Shedin	00065	93M.082	1037	1037	93M.082	15	35	KISP10X	15	35	St	Up	Shocker pole with 1.5 m cascade in background
97-Sep-1	Shedin	00065	93M.082	1037	1037	93M.082	15	36	KISP10X	15	36	St	Up	Low gradient habitat upstream of 7.3m falls, paint can on log.
97-Sep-1	Shedin	00065	93M.082	1037	1037	93M.082	15	37	KISP10X	15	37	St	Dn	Low gradient habitat upstream of 7.3m falls, mossy LWD in foreground.
97-Sep-1	Shedin	00063	92M.083	1036	02012	93M.082	18	1	KISP10X	18	1	St	Up	6m falls (EFU) ~100m upstream of 8m falls.

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97-Sep-1	Shedin	00066	92M.083	1038	01038	93M.082	18	2	KISPFOX	18	2	St	Xs	Stream at gradient break above steep section.
97-Sep-1	Shedin	00066	92M.083	1038	01038	93M.082	18	5	KISPFOX	18	5	St	Up	Seepage/devils club.
97-Sep-1	Shedin	00066	92M.083	1038	01038	93M.082	18	6	KISPFOX	18	6	St	Up	Mouth of stream, steep rock cascade with little flow.
97-Sep-1	Shedin	00112	93M.082	1039	01039	93M.082	18	7	KISPFOX	18	7	St	Up	Small emperhermal channel with no water, poor photo quality.
97-Sep-1	Shedin	00112	93M.082	1039	01039	93M.082	18	8	KISPFOX	18	8	St	Dn	Small emperhermal channel with no water, poor photo quality.
97-Sep-2	Shedin	00098	93M.073	1041	01041	93M.073	18	9	KISPFOX	18	9	St	Up	Boulder step, glove in foreground.
97-Sep-2	Shedin	00098	93M.073	1041	01041	93M.073	18	10	KISPFOX	18	10	St	Up	Step pool with logs across channel.
97-Sep-2	Shedin	00098	93M.073	1041	02014	93M.073	18	11	KISPFOX	18	11	St	Up	80m u/s 3m falls.
97-Sep-2	Shedin	00093	93M.073	1042	01042	93M.073	18	15	KISPFOX	18	15	St	Fish	DV 48 mm.
97-Sep-2	Shedin	00093	93M.073	1042	01042	93M.073	18	17	KISPFOX	18	17	St	Up	Alder pole across channel, blue hat.
97-Sep-2	Shedin	00093	93M.073	1042	01042	93M.073	18	18	KISPFOX	18	18	St	Dn	Alder pole across cahnnel.
97-Sep-2	Shedin	00095	93M.073	1044	01044	93M.073	18	20	KISPFOX	18	20	St	Ae	Devil's club seepage zone no visible channel
97-Aug-27	Shedin	00156	93M.092	3004	03004	93M.092	3	8	KISPFOX	3	8	St	Dn	Book in foreground, helicopter in background. Channel in mead
97-Aug-27	Shedin	00156	93M.092	3004	03004	93M.092	3	9	KISPFOX	3	9	St	Up	Person electroshocking in meadow/swamp.
97-Aug-27	Shedin	00155	93M.092	1002	01002	93M.092	3	10	KISPFOX	3	10	St	Ae	Aerial view.
97-Aug-27	Shedin	00156	93M.092	3004	03004	93M.092	3	11	KISPFOX	3	11	St	Ae	Aerial view.
97-Aug-27	Shedin	00154	93M.092	1003	01003	93M.092	3	12	KISPFOX	3	12	St	Ae	Aerial view.
97-Aug-28	Shedin	00142	93M.092	3005	03005	93M.092	3	13	KISPFOX	3	13	St	Dn	Person on left electroshocking in meadow/swamp.
97-Aug-28	Shedin	00142	93M.092	3005	03005	93M.092	3	14	KISPFOX	3	14	St	Up	Ponded water in meadow/swamp.
97-Aug-28	Shedin	00142	93M.092	3005	03005	93M.092	3	15	KISPFOX	3	15	St	Dn	Downstream of Dumsulo, person walking on right.
97-Aug-28	Shedin	00189	93M.092	3006	03006	93M.092	3	16	KISPFOX	3	16	St	Dn	Downstream to mainstem ILP 00181, book on right.
97-Aug-28	Shedin	00189	93M.092	3006	03006	93M.092	3	17	KISPFOX	3	17	St	Up	Upstream to reach break, book on right.
97-Aug-28	Shedin	00181	93M.092	1006	04001	93M.092	3	18	KISPFOX	3	18	Ae	Up	Aerial view of cascades in reach 2.
97-Aug-28	Shedin	00125	93M.092	3007	03007	93M.092	3	22	KISPFOX	3	22	St	Up	Mossy log across small channel.
97-Aug-28	Shedin	00125	93M.092	3007	03007	93M.092	3	23	KISPFOX	3	23	St	Dn	Blaze on tree on right, back.

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97-Aug-28	Shedin	00108	93M.092	3008	04002	93M.092	3	24	KISP10X	3	24	St	Up	Cascade, 8m.
97-Aug-28	Shedin	00108	93M.092	3008	03008	93M.092	3	25	KISP10X	3	25	St	Dn	Dark photo, alder overhanging channel.
97-Aug-28	Shedin	00108	93M.092	3008	03008	93M.092	3	26	KISP10X	3	26	St	Up	Riffle, LWD across channel.
97-Aug-28	Shedin	00108	93M.092	3008	04003	93M.092	3	27	KISP10X	3	27	St	Up	Cascade/chute, 2m.
97-Aug-28	Shedin	00108	93M.092	3008	03008	93M.092	3	28	KISP10X	3	28	Ae	Xs	Channel in lower portion of photo.
97-Aug-28	Shedin	00108	93M.092	3008	03008	93M.092	3	29	KISP10X	3	29	Ae	Up	Mostly trees, channel obscured.
97-Aug-28	Shedin	00024	93M.092	3009	03009	93M.092	3	32	KISP10X	3	32	St	Up	Book on mossy log across channel.
97-Aug-28	Shedin	00024	93M.092	3009	03009	93M.092	3	33	KISP10X	3	33	St	Fish	DV on anode net.
97-Aug-29	Shedin	Rosenthal	93M.083	3010	03010	93M.083	4	1	KISP10X	4	1	St	Up	Wide channel, cobble riffles, dark clouds.
97-Aug-29	Shedin	Rosenthal	93M.083	3010	03010	93M.083	4	2	KISP10X	4	2	St	Dn	Mainstem, large bar on right.
97-Aug-29	Shedin	Rosenthal	93M.083	3010	03010	93M.083	4	3	KISP10X	4	3	St	Up	Mainstem, person in shot for scale.
97-Aug-29	Shedin	Rosenthal	93M.083	3010	03010	93M.083	4	4	KISP10X	4	4	St	Ae	Aerial view.
97-Aug-29	Shedin	00155	93M.083	3011	03011	93M.083	4	5	KISP10X	4	5	St	Dn	Fast moving water, trees over channel.
97-Aug-29	Shedin	00155	93M.083	3011	03011	93M.083	4	6	KISP10X	4	6	St	Up	Log in foreground, fast water.
97-Aug-29	Shedin	00155	93M.083	3011	03011	93M.083	4	7	KISP10X	4	7	St	Up	Falls, person upstream for scale.
97-Aug-29	Shedin	00155	93M.083	3011	03011	93M.083	4	8	KISP10X	4	8	St	Up	Person holding trap from trapline set.
97-Aug-29	Shedin	00155	93M.083	3011	04004	93M.083	4	11	KISP10X	4	11	St	Up	Falls, person on log for scale.
97-Aug-29	Shedin	Rosenthal	93M.082	3012	03012	93M.082	4	12	KISP10X	4	12	St	Fish	DV 148
97-Aug-29	Shedin	Rosenthal	93M.082	3012	03012	93M.082	4	13	KISP10X	4	13	St	Fish	DV 170
97-Aug-29	Shedin	Rosenthal	93M.082	3012	03012	93M.082	4	14	KISP10X	4	14	St	Dn	Helicopter in background.
97-Aug-29	Shedin	Rosenthal	93M.082	3012	03012	93M.082	4	15	KISP10X	4	15	St	Up	Fast water, deep riffle/rapid.
97-Aug-29	Shedin	Rosenthal	93M.082	3012	03012	93M.082	4	16	KISP10X	4	16	St	Dn	Fast water, deep riffle/rapid.
97-Aug-29	Shedin	00120	93M.082	3013	03013	93M.082	4	18	KISP10X	4	18	St	Dn	Meter stick on log.
97-Aug-29	Shedin	00120	93M.082	3013	03013	93M.082	4	19	KISP10X	4	19	St	Up	Extensive overhanging vegetation.
97-Aug-30	Shedin	00011	93M.092	3015	03015	93M.092	4	20	KISP10X	4	20	St	Dn	Log diagonal across shot, person in background.
97-Aug-30	Shedin	00011	93M.092	3015	03015	93M.092	4	21	KISP10X	4	21	St	Up	Small steps, herb layer adjacent to channel.

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97-Aug-30	Shedin	00012	93M.092	3016	03016	93M.092	4	22	KISPIOX	4	22	St	Up	Mossy log, small step falls.
97-Aug-30	Shedin	00012	93M.092	3016	03016	93M.092	4	23	KISPIOX	4	23	St	Dn	Book on mossy log.
97-Aug-30	Shedin	00012	93M.092	3016	03016	93M.092	4	24	KISPIOX	4	24	St	Dn	Book on mossy log. 40m falls on a ILP not sampled, ILP 500 mapsheet 93M.092, 600m upstream.
97-Aug-30	Shedin	00011	93M.092	3015	04007	93M.092	4	26	KISPIOX	4	26	St	Up	Aerial view of cascades
97-Aug-30	Shedin	Sperry Rea	93M.082	3026	04008	93M.083	4	29	KISPIOX	4	29	Ae	Dn	Aerial view of Reach 2.
97-Aug-30	Shedin	Sperry Rea	93M.082	3020	03020	93M.083	4	30	KISPIOX	4	30	Ae	Up	Aerial view of Reach 3
97-Aug-30	Shedin	Sperry Rea	93M.082	3020	03020	93M.083	4	31	KISPIOX	4	31	Ae	Up	Aerial view of Reach 4.
97-Aug-30	Shedin	Sperry Rea	93M.082	3017	03017	93M.083	4	32	KISPIOX	4	32	Ae	Up	Valley bottom, person on right with electroshocker.
97-Aug-30	Shedin	Sperry Rea	93M.082	3017	03017	93M.083	4	33	KISPIOX	4	33	St	Up	Valley bottom, avalanche paths.
97-Aug-30	Shedin	Sperry Rea	93M.082	3017	03017	93M.083	4	34	KISPIOX	4	34	St	Dn	Eroding glacial bank.
97-Aug-30	Shedin	Sperry Rea	93M.082	3017	03017	93M.083	4	36	KISPIOX	4	36	St	Up	Person on bar in centre.
97-Aug-30	Shedin	00905	93M.082	3018	03018	93M.083	20	1	KISPIOX	20	1	St	Dn	Person downstream, large riffle.
97-Aug-30	Shedin	00905	93M.082	3018	03018	93M.083	20	2	KISPIOX	20	2	St	Dn	Riffle/rapid, boulders on right.
97-Aug-30	Shedin	00905	93M.082	3018	03018	93M.083	20	3	KISPIOX	20	3	St	Up	Aerial view
97-Aug-30	Shedin	00905	93M.082	3018	03018	93M.083	20	4	KISPIOX	20	4	St	Ae	Aerial view
97-Aug-30	Shedin	00905	93M.082	3018	03018	93M.083	20	5	KISPIOX	20	5	St	Ae	Aerial view
97-Aug-30	Shedin	00905	93M.082	3018	03018	93M.083	20	6	KISPIOX	20	6	St	Ae	View of back end of LP00029
97-Aug-30	Shedin	00029	93M.083	3019	03019	93M.083	20	7	KISPIOX	20	7	St	Up	Blaze on tree
97-Aug-30	Shedin	00029	93M.083	3019	03019	93M.083	20	8	KISPIOX	20	8	St	Up	Berries in channel (red).
97-Aug-30	Shedin	00029	93M.083	3019	03019	93M.083	20	9	KISPIOX	20	9	St	Dn	Person on mid chan bar.
97-Aug-31	Shedin	Sperry Rea	93M.082	3020	03020	93M.083	20	10	KISPIOX	20	10	St	Up	Person on left with bucket.
97-Aug-31	Shedin	Sperry Rea	93M.082	3020	03020	93M.083	20	11	KISPIOX	20	11	St	Up	Sunshine on alder right bank.
97-Aug-31	Shedin	Sperry Rea	93M.082	3020	03020	93M.083	20	12	KISPIOX	20	12	St	Dn	Channel obscured by overhanging vegetation.
97-Aug-31	Shedin	00020	93M.083	3021	03021	93M.083	20	13	KISPIOX	20	13	St	Up	Channel obscured by overhanging vegetation.
97-Aug-31	Shedin	00020	93M.083	3021	03021	93M.083	20	14	KISPIOX	20	14	St	Dn	Mid channel bar in sun.
97-Aug-31	Shedin	Sperry Rea	93M.082	3020	03020	93M.083	20	15	KISPIOX	20	15	St	Up	

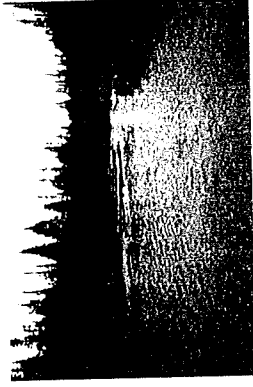
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97-Aug-31	Shedin	Sperry Rea	93M.082	3020	03020	93M.083	20	16	KISP10X	20	16	St	Dn	Debris jam on left.
97-Aug-31	Shedin	00019	93M.083	3022	03022	93M.083	20	17	KISP10X	20	17	St	Up	Person behind bush in channel.
97-Aug-31	Shedin	00019	93M.083	3022	03022	93M.083	20	18	KISP10X	20	18	St	Up	Person on right, water in foreground.
97-Aug-31	Shedin	00019	93M.083	3022	03022	93M.083	20	19	KISP10X	20	19	St	Dn	Ponding, grass in foreground.
97-Aug-31	Shedin	Sperry Rea	93M.082	3020	03020	93M.083	20	20	KISP10X	20	20	St	Ae	Aerial view of Sperry Creek.
97-Aug-31	Shedin	00012	93M.083	3023	03023	93M.083	20	22	KISP10X	20	22	St	Up	Book in foreground.
97-Aug-31	Shedin	00012	93M.083	3023	03023	93M.083	20	23	KISP10X	20	23	St	Dn	Channel in devil's club, glare from stream.
97-Aug-31	Shedin	00013	93M.083	3024	03024	93M.083	20	24	KISP10X	20	24	St	Up	No visible channel, person on log.
97-Aug-31	Shedin	00014	93M.083	3025	03025	93M.083	20	25	KISP10X	20	25	St	Up	No visible channel, person in sunlight.
97-Sep-1	Shedin	Sperry (90)	93M.082	3026	03026	93M.083	20	27	KISP10X	20	27	St	Fish	DV 65mm
97-Sep-1	Shedin	Sperry (90)	93M.082	3026	03026	93M.083	20	28	KISP10X	20	28	St	Dn	Mist over rapids, log across channel.
97-Sep-1	Shedin	Sperry (90)	93M.082	3026	03026	93M.083	20	29	KISP10X	20	29	St	Up	Person sitting on island.
97-Sep-1	Shedin	Sperry (90)	93M.082	3026	03026	93M.083	20	30	KISP10X	20	30	St	Up	Debris jam on left.
97-Sep-1	Shedin	Sperry (90)	93M.082	3026	03026	93M.083	20	31	KISP10X	20	31	St	Xs	Eroding bank.
97-Sep-1	Shedin	Sperry (90)	93M.082	3026	04008	93M.083	20	32	KISP10X	20	32	St	Ae	Cascade
97-Sep-1	Shedin	Sperry (90)	93M.082	3026	03026	93M.083	20	34	KISP10X	20	34	St	Ae	Aerial view of reach.
97-Sep-1	Shedin	00118	93M.082	3027	03027	93M.083	20	36	KISP10X	20	36	St	Up	Book on mossy log.
97-Sep-1	Shedin	00118	93M.082	3027	03027	93M.083	20	37	KISP10X	20	37	St	Dn	Person in bush.
97-Sep-1	Shedin	00199	93M.082	3028	03028	93M.082	9	1	KISP10X	9	1	St	Dn	Alpine stream, helicopter on right.
97-Sep-1	Shedin	00199	93M.082	3028	03028	93M.082	9	2	KISP10X	9	2	St	Up	Person electrofishing.
97-Sep-1	Shedin	00199	93M.082	3028	03028	93M.082	9	3	KISP10X	9	3	St	Ae	Aerial view from lake.
97-Sep-1	Shedin	00130	93M.082	3029	04009	93M.082	9	4	KISP10X	9	4	St	Ae	Series of falls, largest at bottom of frame.
97-Sep-1	Shedin	00130	93M.082	3029	03029	93M.082	9	6	KISP10X	9	6	St	Dn	Person shocking, large boulder.
97-Sep-1	Shedin	00130	93M.082	3029	03029	93M.082	9	7	KISP10X	9	7	St	Up	Logs at upstream end on bank/ in channel.
97-Sep-1	Shedin	00130	93M.082	3029	03029	93M.082	9	8	KISP10X	9	8	St	Up	Step pools.
97-Sep-1	Shedin	00132	93M.082	3030	03030	93M.082	9	9	KISP10X	9	9	St	Up	No visible channel, person sitting.

Photo Date	Watershed/ Working area	Stream Name or ILP	ILP Mapsheet	Card Site #	Site or Feature NID	NID Mapsheet #	Roll #	Frame #	CD#	Folder	Image	Focal Length (St, Wd, Te)	Dir (Up, Dn, Xs, Fish, Ae)	Comments (Description and/or scale item)
97-Sep-1	Shedin	00130	93M.082	3029	04010	93M.082	9	10	KISPIOX	9	10	St	Up	One of several falls ~10m in height.
97-Sep-1	Shedin	00130	93M.082	3029	02005	93M.082	9	12	KISPIOX	9	12	St	Up	Falls.
97-Sep-1	Shedin	Shedin Rea		3031	03031	93M.092	9	13	KISPIOX	9	13	St	Up	Person on right shocking.
97-Sep-1	Shedin	Shedin Rea		3031	03031	93M.092	9	14	KISPIOX	9	14	St	Dn	Riffle narrows at bedrock wall to pool.
97-Sep-1	Shedin	Shedin Rea		3031	03031	93M.092	9	15	KISPIOX	9	15	St	Up	Boulder riffle.
97-Sep-1	Shedin	Shedin Rea		3031	04011	93M.092	9	17	KISPIOX	9	17	St	Ae	Falls/chutes.
97-Sep-2	Shedin	00128	93M.082	3032	03032	93M.082	9	18	KISPIOX	9	18	St	Dn	Open book on bank
97-Sep-2	Shedin	00128	93M.082	3032	03032	93M.082	9	19	KISPIOX	9	19	St	Dn	Open book on bank
97-Sep-2	Shedin	00128	93M.082	3032	03032	93M.082	9	20	KISPIOX	9	20	St	Up	Closed notebook on gravel.
97-Sep-2	Shedin	00110	93M.082	3033	03033	93M.082	9	21	KISPIOX	9	21	St	Up	Mossy log across channel.
97-Sep-2	Shedin	00110	93M.082	3033	03033	93M.082	9	22	KISPIOX	9	22	St	Dn	Windthrow in channel.
97-Sep-2	Shedin	00111	93M.082	3034	03034	93M.082	9	23	KISPIOX	9	23	St	Dn	Open notebook and bucket in middle.
97-Sep-2	Shedin	00111	93M.082	3034	03034	93M.082	9	24	KISPIOX	9	24	St	Up	Bucket in mid channel.
97-Sep-2	Shedin	00110	93M.082	3033	04012	93M.082	9	26	KISPIOX	9	26	Ae	Up	Aerial view of falls at confluence with Shedin.



#1_006



#1_010



#1_014



#1_019



#1_005



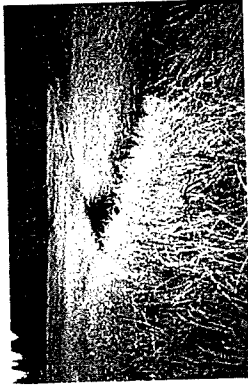
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#1_008



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#1_015



#1_023



#1_022



#1_021



#1_020



#1_027



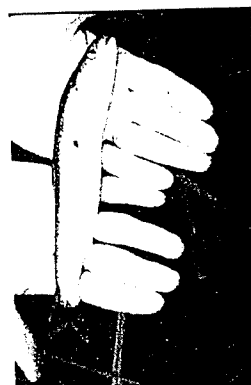
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#1_031



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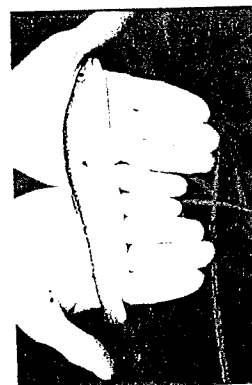
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#15_023



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#15_025



#15_026



#15_027



#15_028



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#15_031



#15_032



#15_034



#15_035



#15_036



#4_032



#4_033



#4_034



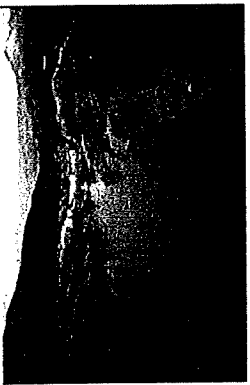
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#9_002



#9_003



#9_004



#9_006



#9_007



#9_008



#9_009



#9_010



#9_012



#9_013



#9_014



#2_001



#2_002



#2_003



#2_005



#2_006



#2_007



#2_008



#2_010



#2_011



#2_012



#2_013



#2_016



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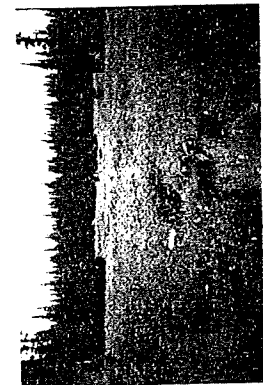
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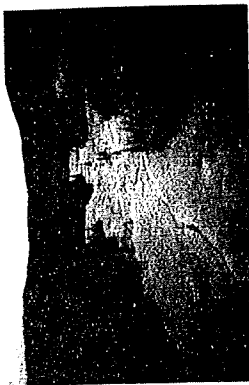
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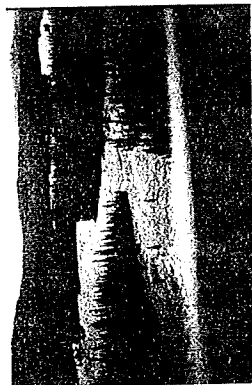
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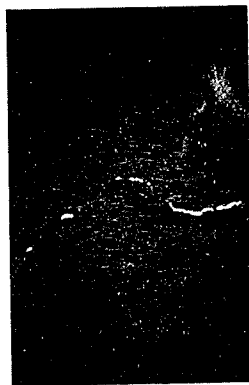
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#3_023



#3_024



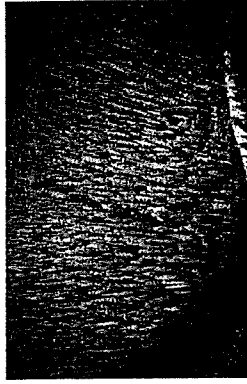
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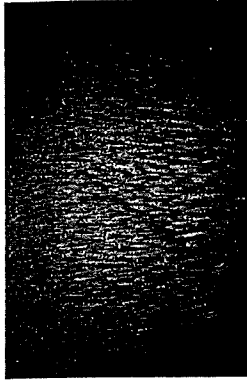
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#3_028



#3_029



#3_032



#3_033



#4_001



#4_002



#4_003



#4_004



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#4_006~1



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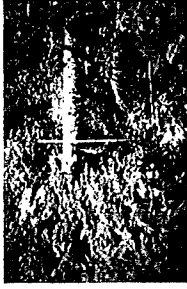
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#4_030



#4_016~1



#4_020~1



#4_024



#4_031



#9_015



#9_017



#9_018



#9_019



#9_020



#9_021



#9_022



#9_023



#9_024



#9_026



#15_017



#15_019



#15_020



#15_022



#15_023



#15_024



#15_025



#15_026



#15_027



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#15_036



#15_037



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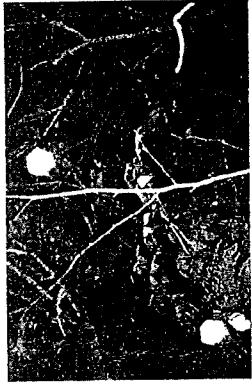
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#18_009



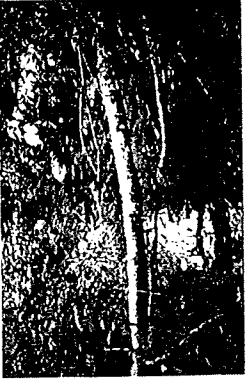
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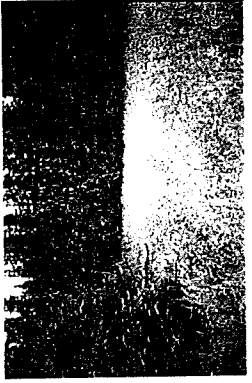
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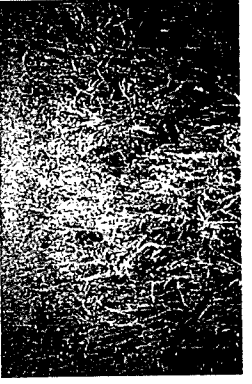
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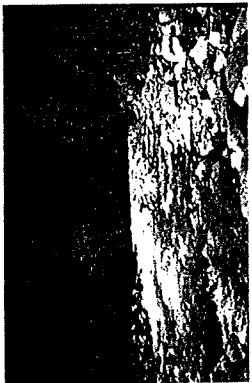
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#20_002



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#20_008



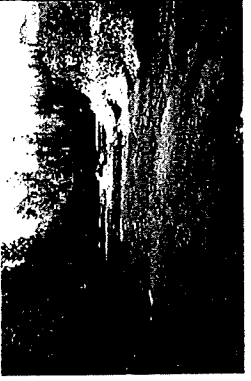
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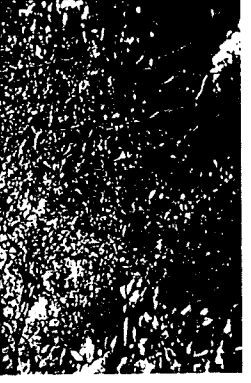
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#13_010



#13_011



#13_013



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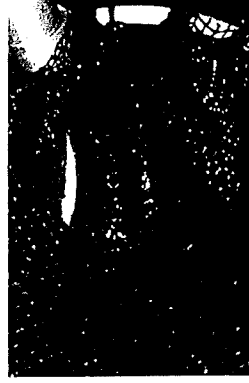
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#13_025



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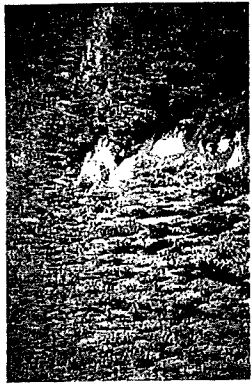
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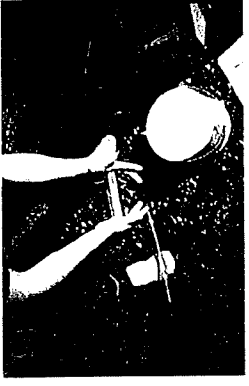
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