# OVERVIEW FISH AND FISH HABITAT INVENTORY

# UPPER PROPHET AND BESA RIVER WATERSHEDS

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Prepared for:

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# PROJECT REFERENCE INFORMATION

FDIS Project Number	4136
MELP Region	07B
MELP District	Fort St. John
FW Management Units	7-42
Forest Region	Prince George
Forest District	Fort St. John & Fort Nelson
First Nations Claim Area	Treaty 8

# WATERSHED INFORMATION

Watershed Group	Upper Prophet River
Watershed Name	Prophet River
	Besa River
Watershed Code	212-580800-04700
NTS Maps	94F/8 & 9, 94G/5-6, 12-14
BEC Zone	BWBS, SWB, AT
Access	Helicopter

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#### 1.0 INTRODUCTION

As a result of consensus reached at the Fort Nelson and Fort St. John Land and Resources Management planning tables, the Muskwa-Kechika Management Area (M-KMA) was formally designated through the M-KMA Act. This legislation requires that the management and development of Crown lands and natural resources within the M-KMA be carried out in accordance with the Muskwa-Kechika Management Plan. The Muskwa-Kechika Management Plan calls for the completion of pre-tenure plans as a prerequisite to the allocation or authorization of any oil and gas development within the M-KMA.

A pre-tenure planning process is currently under way for the Besa River and upper Prophet River watersheds (hereafter referred to as the Besa-Prophet). This pre-tenure planning area roughly corresponds to the Upper Prophet River Watershed Group as defined in the B.C. Watershed Atlas. With the exception of lake surveys completed on Redfern and Fairy Lakes, no fish habitat or fish distribution data existed for any portion of the planning area. The absence of information on aquatic habitats and fluvial fish populations was identified as a major limitation to effective planning of access and oil and gas development.

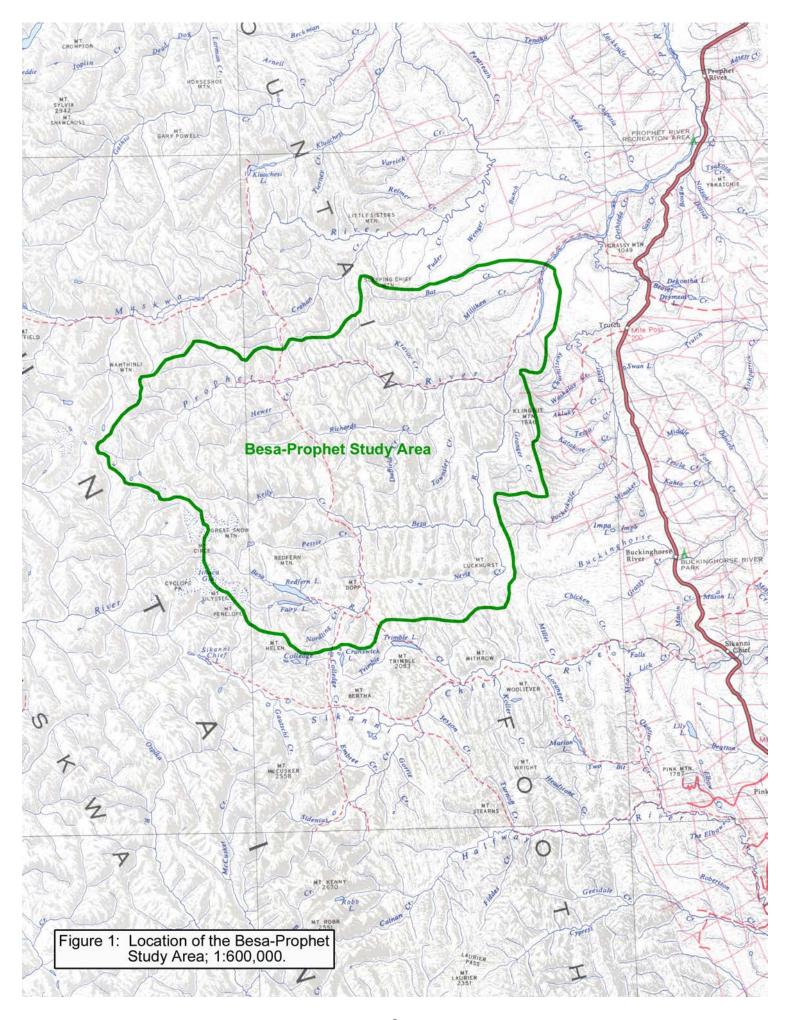
In August and September 2000, Diversified Environmental Services completed an *Overview Fish and Fish Habitat Inventory* (Overview Inventory) within the Besa-Prophet pre-tenure planning area.

#### 2.0 PROJECT AREA

The project area lies to the west of the Alaska Highway, approximately 220 km northwest of Fort St. John, and includes all portions of the Besa River and Prophet River watersheds lying within the M-KMA (Fig. 1). As fisheries data existed previously for Redfern Lake and Fairy Lake they were excluded from the survey. The area lies completely within the Upper Prophet River Watershed Group, as defined by the B.C. Watershed Atlas, excluding only the Minaker River drainage, which occurs outside the east boundary of the M-KMA.

The Besa River and Prophet River drainages originate in the Rocky Mountains and flow eastward through the Eastern Muskwa Ranges and Muskwa Foothills ecosections of the Northern Boreal Mountains ecoprovince. The project area lies within the Alpine Tundra (AT), Spruce-Willow-Birch (SWB), and Boreal White and Black Spruce (BWBS) biogeoclimatic zones.

Topography within the western portion of the project area is extremely mountainous, with significant expanses of rock and ice. The much less severe terrain in the east is dominated by forested ridges and vegetated alpine. Mainstem and tributary drainage systems are characterized by moderate gradients and low turbidity.



The southern portion of the project area is accessible by snowmobile and all-terrain-vehicle (ATV) via the Redfern Lake Trail designated route, which originates from the Mile 178 Road. The remainder of the project area is accessible by foot, horseback, or aircraft.

Recreation is currently the primary land use. Commercial activities are associated with recreational use by both residents and non-residents, and include guide-outfitting, packing and wilderness accommodations. With the exception of limited seismic exploration there is currently no industrial land use.

#### 3.0 METHODS

Historical fisheries information, including existing fish sampling data, anecdotal information and local knowledge, was reviewed prior to the commencement of fieldwork. Existing data was limited to sampling in Redfern and Fairy Lakes during lake surveys conducted by BC Environment and limited angling in the outlet to Fairy Lake during the lake survey (MELP 1981a, 1981b).

During the pre-field planning phase, 40 stream sample sites were initially selected within the project area using site selection guidelines detailed in *Overview Fish and Fish Habitat Inventory Methodology (RIC 1999)*. Minor modifications to account for fish distribution patterns unique to the region, anticipated species composition, and fall discharge rates were incorporated in order to maximize the efficiency of sampling. It was expected that a proportion of the sample sites would be shifted or deleted and others added, during the course of the fieldwork, as migration obstructions and habitat use patterns were identified and flow-dependent seasonal access limitations were noted Final site selection was also dependent on the availability of suitable helicopter landing sites. Site locations were adjusted in the field to increase the amount of fish habitat and distribution data collected.

All access was by Bell 206B helicopter. Nevis Creek Ranch, located on the Redfern Lake designated access route, was used as a base. Flight paths were generally low-level along significant stream channels or high-altitude over surrounding terrain, with specific avoidance of the activities of guide-outfitters and resident hunters.

A standard Resources Inventory Committee (RIC) Site Card was completed at each stream sample site, in accordance with *Reconnaissance 1:20,000 Fish and Fish Habitat Inventory: Standards and Procedures (RIC 1998, Errata March 1999).* Photographs of representative habitat and channel features were taken at each sample site, including upstream and downstream ground perspectives and aerial views. Representatives of "sport-fish" species were also photographed.

A fish species inventory was undertaken at each sample site using a Coffelt Mark X gasgenerator, backpack electro-fisher. All electro-fishing was conducted using pulse frequency settings of 60 or Coffelt's CPS™ complex pulse setting. Output voltages of

250 to 300 volts were normally used, with adjustments made for water depth, conductivity, and length of fish being sampled. Juvenile rearing habitat was sampled during single-pass electro-fishing within each site. Angling with spoons, spinners, and roe was conducted in habitat likely to hold adult salmonids, including deep pools associated with bedrock confinement or large woody debris (LWD). Sample sites ranged in length from 100 m to 300 m.

To reduce handling stress, fish were anaesthetized in a 40 mg/l clove oil solution (0.3 ml clove oil dissolved in 1.0 ml ethanol, then dissolved in 8 litres of water). All fish were revived before release back into the stream.

Sampling method specifications, species, and fork length for all fish captured were recorded on RIC Fish Collection Forms and Individual Fish Data Forms (RIC 1999). Scale samples were taken from representatives of all age classes of Arctic grayling (*Thymallus arcticus*), mountain whitefish (*Prosopium williamsoni*), rainbow trout (*Oncorhynchus mykiss*), and juvenile bull trout (*Salvelinus confluentus*). Scale samples were placed in scale envelopes and later mounted between glass slides and read on a Micron 780 microfiche reader. A pelvic fin ray was collected from all mature bull trout, mounted, and analyzed by North-South Consulting Inc., Winnipeg, MB.

No lakes were sampled, no water samples were collected for analysis from any streams, and no voucher specimens were collected during this inventory.

A list of sampling equipment used during field surveys appears in Table 1.

Table 1. List of field equipment used during the Besa-Prophet Overview Inventory.

		<u> </u>
Equipment	Parameter	Make and Model
Electro-fisher	fish species present	Coffelt Mark X
Abney Level	site gradient	Can-measure 5X
Meter Sticks	channel and wetted width, impasse height, pool depth	2-metre folding
Thermometer	water temperature	Fisher alcohol
Range Finders	channel and wetted width	Ranging 120, Ranging 620
Hip Chain	site length	Chainman II
Camera	photodocumentation	Pentax ME SLR w/50mm Canon SureShot A1 w/32mm
GPS Receiver	Field site-referencing	Garmin GPS II PLUS

#### 4.0 RESULTS

Field assessments of 41 stream sample sites were completed between August 28 and September 15, 2000.

# 4.1 Logistics

All site access was by helicopter. Nevis Creek Ranch, located on Nevis Creek, was used as a base for field operations. Fuel was transported by pick-up truck to the closest vehicle access point, at the west end of the Mile 178 Road.

Fieldwork had to be temporarily discontinued on August 31 due to heavy snowfall and poor flying conditions. Fieldwork recommenced on September 12 after snow had melted from lower elevations and stream discharge rates had receded. Nighttime temperatures well below freezing resulted in unseasonably low water temperature for the remainder of the survey and may have affected seasonal fish distribution by triggering some downstream movement of rearing fish.

#### 4.2 Habitat and Fish Distribution

Forty-one stream sample sites were established and evaluated in the field. These were distributed evenly throughout the project area, which consisted of all sub-drainages of the Prophet River watershed lying upstream of the confluence with Bat Creek.

Within the project area, available fish habitat is generally comprised of moderate gradient, riffle/pool configurations, with course granular substrates. Suspended sediment levels are typically low, with correspondingly high water clarity. Boulder cover and occasional deep pools account for the majority of rearing cover in tributary habitats, with large woody debris comprising only a minor component. On mainstem reaches, side channel habitats and cobble margins provide juvenile rearing habitat suitable for young-of-the-year (YOY) mountain whitefish, and deep pools and runs provide holding habitat for adult salmonids.

Impassible barriers (waterfalls and chutes) are common on both mainstem and tributary streams, especially in the western portion of the project area, and exclude fish from a significant proportion of suitable habitat in some sub-drainages, including the Prophet River, Besa River, Richards Creek, Keily Creek, Hewer Creek, Petrie Creek, and Nordling Creek. Reaches upstream of impassible barriers were sampled in several sub-drainages in order to confirm the presence or absence of upstream-resident populations. No fish were captured or observed upstream of the lowermost barriers on the Prophet River, Besa River, Hewer Creek, and Keily Creek. Potential for the existence of upstream resident populations (bull trout and slimy sculpin (*Cottus cognatus*) ) is limited by low habitat complexity and multiple impasses. A summary of barriers to fish movement within the project area appears in Table 2.

Arctic grayling, mountain whitefish and bull trout were the only indigenous "sport-fish" species found within the project area and were relatively common throughout accessible portions of the system. All stream reaches accessible from the Prophet River or Besa River mainstems, and containing suitable seasonal rearing habitat, can be assumed to support one or more of these species. Rainbow trout were found in the Besa River mainstem immediately upstream of Redfern Lake and in the Besa mainstem and two

Table 2. Summary of barriers to fish movement within the Besa-Prophet Overview Inventory project area.

Stream Name	Watershed Code	NTS Map	Barrier Type	Height	UTM	Comments
Prophet River	212-580800-04700	94F/9	falls	6 m	10.430467.6387589	impassible barrier; upper limit of fish distribution on Prophet River mainstem
Prophet River	212-580800-04700	94F/9	falls	20 m	10.430054.6387479	impassable barrier immediately upstream of lowermost impasse
Prophet River	212-580800-04700	94F/9	falls	10 m	10.424747.6380586	impassable barrier on non fish-bearing reach
Prophet River	212-580800-04700	94F/9	falls	15 m	10.418143.6380586	impassable barrier on non fish-bearing reach
Bat Creek	212-580800-04700-59000	94G/13	falls	60 m	10.461980.6404627	impassable barrier; upper limit of fish distribution on Bat Creek
Trib to Bat Creek	212-580800-04700-59000-8500	94G/13	falls	60 m	10.462888.6404245	impassable barrier on small trib at headwaters of Bat Creek
Trib to Bat Creek	212-580800-04700-59000-8670	94G/13	falls	90 m	10.462430.6404532	impassable barrier on small trib at headwaters of Bat Creek
Besa River	212-580800-04700-66500	94F/8	chute	n/s	10.437364.6360793	impassable chute 6.3 km upstream of Redfern Lake; upper limit of fish distribution on Besa River mainstem
Besa River	212-580800-04700-66500	94F/8	falls	25 m	10.438150.6360657	impassable falls immediately upstream of impassable chute
Keily Creek	212-580800-04700-66500-5310	94G/5	cascade	15 m	10.440956.6371608	lowermost impassable barrier 22 km upstream from mouth; upstream limit of fish distribution
Keily Creek	212-580800-04700-66500-5310	94G/5	cascade	20 m	10.440378.6371344	impassable barrier on non fish-bearing reach
Keily Creek	212-580800-04700-66500-5310	94F/8	falls	50 m	10.431756.6373071	impassable barrier on non fish-bearing headwaters reach
Trib to Keily Creek	212-580800-04700-66500-5310- 3560	94G/5	falls	40 m	10.448773.6370509	impassable barrier 1.6 km upstream from confluence with Keily Creek
Trib to Keily Creek	212-580800-04700-66500-5310- 8510	94F/8	falls	40 m	10.431656.6372634	impassible barrier on non fish-bearing headwaters tributary
Petrie Creek	212-580800-04700-66500-5420	94G/5	falls	6 m	10.450060.6363567	impassable barrier 8.5 km upstream from mouth; upstream limit of fish distribution
Trib to Besa River	212-580800-04700-66500-6380	94G/5	falls	50 m	10.461093.6357348	impassable barrier on tributary draining "10-mile Lake" wetlands; upstream limit of fish distribution

Table 2 Con't. Summary of barriers to fish movement within the Besa-Prophet Overview Inventory project area.

Stream Name	Watershed Code	NTS Map	Barrier Type	Height	UTM	Comments
Nordling Creek	212-580800-04700-66500-7270	94G/5	falls	5 m	10.453540.6352031	impassable barrier in bedrock canyon 2 km upstream from mouth; upstream limit of fish distribution
Outlet to Fairy Lake	212-580800-04700-66500-7940	94G/5	falls	10 m	10.448917.6354857	impassable barrier immediately upstream of confluence with Besa River; RB introduced upstream
Outlet to Fairy Lake	212-580800-04700-66500-7940	94G/5	falls	8 m	10.448044.6354598	impassable barrier immediately downstream of Fairy Lake; RB introduced upstream
Richards Creek	212-580800-04700-70200	94G/12	rock ledge	1 m	10.465948.6382529	1 m rock ledge 14 km upstream of mouth; may restrict GR & MW movement; BT present upstream
Richards Creek	212-580800-04700-70200	94G/12	falls	5 m	10.445280.6381028	impassable barrier 22 km upstream from mouth; BT spawning immediately downstream
Richards Creek	212-580800-04700-70200	94G/12	falls	30 m	10.443666.6381098	impassable barrier on non fish-bearing reach
Richards Creek	212-580800-04700-70200	94F/9	falls	40 m	10.440007.6380097	impassable barrier on non fish-bearing reach
Trib to Duffield Cr	212-580800-04700-70200-2850- 8090	94G/5	falls	5 m	10.462556.6371807	impassable barrier on south fork of Duffield drainage headwaters
Trib to Richards Cr	212-580800-04700-70200-8090	94G/12	falls	70 m	10.445569.6380790	impassable barrier immediately upstream of confluence with Richards Creek
Kravac Creek	212-580800-04700-72600	94G/12	falls	7 m	10.465625.6395499	Impassable barrier 6 km upstream from mouth
Hewer Creek	121-580800-04700-82300	94G/12	falls	10 m	10.447296.6386866	Impassable barrier 5 km upstream from mouth; upstream limit of fish distribution
Trib to Prophet River	121-580800-04700-87900	94F/9	chute	n/s	10.436120.6394702	Impassable barrier 5 km upstream from mouth; upstream limit of fish distribution
Trib to Prophet River	121-580800-04700-91800	94F/9	falls	50 m	10.431055.6386701	Impassable barrier 750 m upstream from mouth; upstream limit of fish distribution
Trib to Prophet River	121-580800-04700-98800	94F/9	falls	15 m	10.418301.6380636	impassable barrier on non fish-bearing reach in Prophet headwaters

tributaries immediately downstream of Redfern Lake (first 15 km). These are assumed to be members of a naturalized, self-sustaining population originally introduced into Redfern Lake and Fairy Lake in 1984. Slimy sculpin was the only other fish species captured.

Adult Arctic grayling were found to be widely distributed throughout accessible mainstem and tributary habitats, particularly where deep-pool holding cover occurs. The project area appears to support a significant summer-resident, adult population with little evidence of spawning or juvenile rearing, which is assumed to take place downstream in lower portions of the Prophet River system.

Bull trout populations within the project area are likely migratory, with adults over-wintering in the lower Prophet River mainstem and moving upstream to spawning habitats by late summer. Three bull trout spawning locations were identified through the presence of mature, spawning fish and/or moderate to high densities of YOY and yearling juveniles. These are located on Petrie Creek, Duffield Creek, and upper Richards Creek. Sub-adult bull trout were found to be widely scattered at low densities throughout the remainder of the project area.

Mountain whitefish appear to spawn in the Prophet and Besa River mainstems within the project area, as indicated by relatively high densities of YOY juveniles in mainstem sample sites. Other age-classes, including post-yearling juveniles, sub-adults, and adults, were found to be widely distributed in a variety of mainstem and tributary habitats throughout the remainder of the project area. These fish likely concentrate in deeper pools in the Prophet and Besa River mainstems during winter.

Slimy sculpin appear to exist as local populations in all accessible portions of mainstem and tributary drainages where suitable over-wintering capability exists.

Additional species, including burbot (*Lota lota*), longnose sucker (*Catostomus catostomus*), lake chub (*Couesius plumbeus*), and longnose dace (*Rhinichthys cataractae*) have been recorded in portions of the Prophet River system downstream of the project area. Although these species may be seasonally present at low densities within the project area, their preference is for the warmer, lower-gradient habitats of the Boreal Plains ecoprovince.

A summary of fish sampling results from the 41 stream sample sites appears in Table 3. Site data cards, sampling specifications, individual fish data, and site photographs appear in Appendices I through XLI. A project overview map summarizing fish species distribution is included in Appendix XLII. A brief description of fish distribution and general habitat values for each sub-basin sampled is presented below.

#### 4.2.1 Prophet River

The Prophet River mainstem is approximately 245 km in length from its headwaters to its confluence with the Muskwa River. The upper 105 km of mainstem lies within the Besa-Prophet project area. A series of impassable barriers exists on the upper mainstem. The

Table 3. Summary of fish sampling results from stream sample sites in the Besa-Prophet Overview Inventory project area.

Stream Name	Site #	Fish Species	Comments				
Prophet River	37	MW CCG (BT GR)					
Prophet River	35	MW CCG (BT GR)					
Prophet River	28	NFC (NF)	upstream of impassable barrier				
Bat Creek	16	MW GR CCG (BT)					
Bat Creek	18	NFC (MW BT CCG)					
Trib to Bat Creek	15	CCG					
Milliken Creek	17	CCG (GR)	suitable rearing habitat for Arctic grayling				
Besa River	09	GR MW CCG (BT)					
Besa River	03	BT MW GR RB CCG					
Besa River	26	RB	upstream of Redfern Lake; below impassable barrier				
Besa River	27	NFC (NF)	upstream of impassable barrier				
Nevis Creek	08	MW GR (BT CCG)					
Nevis Creek	05	MW GR CCG (BT)					
Nevis Creek	02	NFC (CCG BT)	bull trout and slimy sculpin assumed seasonally present				
Trib to Nevis Creek	07	NFC (BT CCG)	bull trout and slimy sculpin assumed seasonally present				
Trib to Nevis Cr Trib	06	NFC (BT CCG)	bull trout and slimy sculpin assumed seasonally present				
Trib to Nevis Creek	01	CCG (BT)	bull trout assumed seasonally present				
Keily Creek	11	MW GR BT CCG					
Keily Creek	13	MW GR BT CCG	immediately downstream of impassable barrier				
Keily Creek	12	NFC (NF)	upstream of impassable barrier				
Trib to Keily Creek	10	BT					
Petrie Creek	38	BT MW	suspected bull trout spawning stream				
Petrie Creek	14	BT MW	downstream of barrier; suspected bull trout spawning stream				
Trib to Besa River	04	BT MW GR RB	immediately downstream of impassable barrier				
Nordling Creek	25	RB	downstream of impassable barrier				
Richards Creek	20	MW BT CCG (GR)	downstream of 1 m rock shelf				
Richards Creek	32	BT	1 m rock shelf downstream may restrict MW GR CCG				
Richards Creek	34	BT	bull trout spawning area				
Townsley Creek	22	MW CCG (BT)	bull trout assumed seasonally present				
Townsley Creek	24	NFC (BT)	bull trout assumed seasonally present				
Trib to Townsley Creek	23	NFC (BT)	bull trout assumed seasonally present				
Duffield Creek	21	BT	suspected bull trout spawning stream				
Duffield Creek	39	BT	suspected bull trout spawning stream				
Trib to Duffield Creek	40	NFC (BT)	bull trout assumed seasonally present				
Trib to Duffield Creek	41	NFC (BT)	bull trout assumed seasonally present				
Trib to Richards Creek	33	NFC (BT)	bull trout assumed seasonally present				
Kravac Creek	19	NFC	access restricted by subsurface flow in lower 1 km of mainstem				
Hewer Creek	36	BT CCG (MW)	downstream of impassable barrier				
Hewer Creek	31	NFC (NS)	upstream of impassable barrier				
Trib to Prophet River	30	MW BT CCG					
Trib to Prophet River	29	MW BT CCG (GR)					

GR=Arctic grayling BT=bull trout MW=mountain whitefish CCG=slimy sculpin NFC=no fish caught NF=non fish-bearing ( )=assumed presence

lowermost of these barriers consists of a 6 m and 10 m falls within a bedrock confinement, approximately 85 km upstream of the east boundary of the project area (Plate 1). This barrier defines the upstream limit of fish distribution within the system. No fish were captured or observed during sampling in the remaining 20 km of mainstem upstream of the lower barrier, and all species are assumed absent. Bull trout, mountain whitefish, and slimy sculpin were captured downstream of the lower impasse. Moderate densities of young-of-the-year mountain whitefish were sampled in the Prophet mainstem, suggesting mainstem spawning. No evidence of bull trout or Arctic grayling spawning in the Prophet River mainstem was noted. Bull trout appear to make limited use of the Prophet River, upstream of Richards Creek. Although no Arctic grayling were sampled, adults are assumed to use both summer and overwintering habitat in the mainstem (Plate 2).

#### 4.2.2 Bat Creek

Bat Creek originates on Sleeping Chief Mountain and flows eastward to join the Prophet River at the eastern boundary of the project area (Plate 3). No barriers occur between the mouth and a dramatic 60 m vertical face, 32 km upstream at the headwaters. Mountain whitefish, Arctic grayling, and slimy sculpin were found in abundance in the lower portion of the stream. No fish were captured in the upper portion of the stream, however, suitable summer rearing habitat exists. No rearing juvenile bull trout or other evidence of bull trout spawning was noted, but sub-adult bull trout may make occasional use of this stream during the summer.

#### 4.2.3 Milliken Creek

Milliken Creek is a low to moderate gradient tributary system that originates in the lower portion of the project area and enters the Prophet River immediately upstream of the east M-KMA boundary. No barriers were observed along the mainstem. Slimy sculpin were captured. While no Arctic grayling were captured, suitable rearing and limited spawning habitat is available.

#### 4.2.4 Besa River

The Besa River is the largest tributary to the Prophet River and is comparable in size to the upper Prophet. No barriers exist between the mouth and a point 6.3 km upstream of Redfern Lake, where an impassable chute and 25 m waterfall define the upstream limit of fish distribution (Plate 4). No fish were captured or observed during sampling upstream of these barriers and only one rainbow trout was sampled between the impasse and Redfern Lake.



Plate 1: Prophet River.
Upstream limit of fish distribution on mainstem – 6m and 20 m falls.
(CD 3 Im 153)



Plate 2: Prophet River.
Upstream aerial view of Prophet River valley from near the mouth of Hewer Creek. (CD 3 Im 186)



Plate 3: Bat Creek.
Upstream aerial view toward headwaters from near sample site 15.
(CD 2 Im 77)



Plate 4: Besa River.
Upstream aerial view toward headwaters from 6 km upstream of Redfern Lake.
(CD 2 Im 131)

The remainder of the mainstem, downstream of Redfern Lake (Plate 5), appears to support populations of mountain whitefish, Arctic grayling, bull trout, and slimy sculpin. Suitable summer rearing and overwintering habitat is available. Numerous juvenile mountain whitefish, including young-of-the-year, were captured, suggesting mainstem spawning. Only 1 YOY grayling was captured. Sub-adult bull trout (age 3+) were sampled but no rearing juveniles were observed in the mainstem. A proportion of Besa River bull trout appear to spawn in Petrie Creek, where moderate to high densities of rearing juvenile bull trout were found. Although little evidence of Arctic grayling spawning was noted in the Besa mainstem, it may be an important summering area for adults spawning in lower Prophet tributaries. Rainbow trout, introduced to Redfern and Fairy Lakes in 1984, appear to be colonizing the Besa River upstream and downstream of Redfern Lake. Rainbow trout were captured in the Besa mainstem at site 3 and in two tributaries within the first 15 km downstream of Redfern Lake (sites 4 and 25). Rainbow trout were not sampled in any portion of the project area lying further downstream.

#### 4.2.5 Nevis Creek

Nevis Creek is one of 2 major tributaries to the Besa River, the other being Keily Creek. Large adult Arctic grayling comprised the majority of the Nevis Creek sample, indicating its possible importance as a summering area for mature fish that may spawn in lower Prophet River tributaries. Adult mountain whitefish were also sampled but no juveniles of either species were observed. Although no bull trout of any age class were found in Nevis Creek during the current assessment, local residents report angling sub-adult and maturing fish (30-40 cm) in bedrock pools immediately downstream of the lower designated route crossing, and occasionally observing larger bull trout during the early fall spawning period (Donally, pers. comm.). Based on this anecdotal evidence, some spawning activity appears probable, however, the absence of YOY and yearling juveniles during this assessment suggests spawning may be limited. No barriers exist between the headwaters and the confluence with the Besa River.

#### 4.2.6 Keily Creek

Keily Creek comprises the second of two major tributaries to the Besa River (Plate 6). The mainstem stretches approximately 38 km from mouth to headwaters, with an impassable barrier occurring 22 km upstream from the mouth. Sampling between this barrier and another, located 9 km upstream, indicate that all portions of the drainage upstream of the lower barrier are non fish-bearing (Plate 7). The lower portion of the drainage was found to support bull trout, mountain whitefish, Arctic grayling, and slimy sculpin. Moderate to high quality summering habitat for adult and sub-adult grayling and mountain whitefish is present throughout, but no juvenile grayling or mountain whitefish were captured. Two precocious male bull trout, in spawning condition, were sampled at site 13 and one yearling juvenile was captured at site 10, suggesting limited bull trout reproduction. However, quality spawning habitat and tributary rearing habitat for juvenile bull trout is in low abundance.



Plate 5: Besa River. Upstream aerial view toward Redfern Lake from immediately downstream of Nordling Creek. (CD 2 Im 126)



Plate 6: Keily Creek.
Upstream aerial view of Keily Creek valley from confluence with the Besa River. (CD 1 Im 64)



Plate 7: Keily Creek.

Downstream aerial view of Keily Creek valley from near site 12.

(CD 1 Im 56)

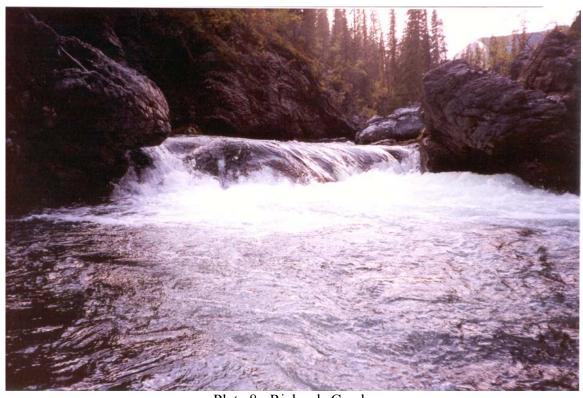


Plate 8: Richards Creek.

One-metre rock ledge approximately 14 km upstream of mouth; view upstream.

(CD 2 Im 103)

#### 4.2.7 Petrie Creek

Petrie Creek enters the Besa River immediately upstream of the mouth of Keily Creek. This drainage is approximately 18 km in length and has an impassable barrier 8.5 km upstream from its mouth. The portion of the drainage lying upstream of the barrier was assumed to be non fish-bearing due to low habitat diversity and lack of suitable overwintering potential. Moderate to high densities of juvenile bull trout were sampled at 2 sites located downstream of the barrier, suggesting significant spawning activity occurs. Mountain whitefish between 3 and 5 years of age were also numerous.

#### 4.2.8 Unnamed Tributary to Besa River (WSC 212-580800-04700-66500-6380)

This unnamed Besa River tributary drains a wetland complex along the Redfern Lake designated route, known locally as "10-Mile Lake". The stream has a 50 m impassable barrier, approximately 3.7 km upstream from the Besa River, and was assumed to be non fish-bearing beyond this point. Bull trout, mountain whitefish, Arctic grayling, rainbow trout, and slimy sculpin were all sampled in a 200 m stretch of stream immediately downstream of the falls, indicating the presence of high quality seasonal rearing habitat.

# 4.2.9 Nordling Creek

Nordling Creek enters the Besa River approximately 6 km downstream of Redfern Lake. A bedrock canyon and impassable barrier occur 2 km upstream from the mouth. Suitable seasonal rearing habitat for "sport-fish" species is present downstream of the barrier. No potential for upstream-resident populations appears to exist above the impasse. Juvenile rainbow trout were captured at site 25.

#### 4.2.10 Richards Creek

Richards Creek is a major tributary to the upper Prophet River. Tributaries to Richards Creek include Townsley Creek and Duffield Creek. A 1 m rock ledge occurs on the Richards Creek mainstem, approximately 14 km upstream from the mouth, just below the Duffield Creek confluence (Plate 8). Bull trout, mountain whitefish, Arctic grayling and slimy sculpin were all captured downstream of this ledge. Bull trout were the only species sampled upstream of the ledge, suggesting that it may be a barrier to other species. An impassable 5 m waterfall is located 21 km upstream of the rock ledge (approximately 35 km upstream of the mouth). Spawning adult bull trout and rearing juveniles were captured immediately downstream of the falls (site 34). All portions of the drainage upstream of the 5 m impasse are assumed to be non fish-bearing due to low habitat complexity, low winter flow, and multiple barriers (Plate 9). Two additional barriers (30 m and 40 m waterfalls) occur upstream of the 5 m impasse.

#### 4.2.11 Townsley Creek

Townsley Creek was found to have low to moderate seasonal rearing potential for juvenile "sport-fish." One juvenile mountain whitefish and 1 slimy sculpin were captured. No evidence of bull trout spawning was noted. No barriers to fish movement were observed.

#### 4.2.12 Duffield Creek

Duffield Creek enters Richards Creek immediately upstream of a 1 m rock ledge that appears to form a partial barrier to all species except bull trout. All portions of Duffield Creek appear accessible to bull trout with the exception of the south fork of the extreme headwaters, where a 5 m waterfall occurs. Young-of-the-year, yearling, and 2-year-old juvenile bull trout were sampled in the Duffield mainstem, indicating it is likely important bull trout spawning and rearing habitat. Plates 10 and 11 show upstream and downstream aerial views of the Duffield Creek drainage.

#### 4.2.13 Kravac Creek

Kravac Creek enters the Prophet River mainstem upstream of the mouth of Richards Creek. A 7 m impassable waterfall occurs approximately 6 km upstream of the mouth. Although limited rearing habitat was found in the vicinity of site 19, immediately below the impasse, no fish were captured and seasonal access was restricted by subsurface flow on the lower mainstem. At the time of the assessment, no surface discharge was present within 1 km upstream of the confluence with the Prophet River. This condition precludes fall spawning in Kravac Creek and severely limits seasonal use by rearing juveniles.

#### 4.2.14 Hewer Creek

Approximately two-thirds of the Hewer Creek drainage is inaccessible to fish due to an impassable 10 m waterfall located 5 km upstream of the mouth (Plate 12). Low to moderate rearing potential was found downstream of the impasse. One sub-adult bull trout and 1 slimy sculpin were captured. No fish were captured or observed upstream of the impasse (site 31).

### 4.2.15 Unnamed Tributary to Prophet River (WSC 212-580800-04700-87900)

This unnamed stream is a significant tributary to the upper Prophet River and enters the mainstem 11 km downstream of the upper limit of fish distribution. As is common on many similar sized tributaries within the project area, the upper two-thirds of the drainage is not accessible to fish due to an impasse. An impassable chute is located approximately 5 km upstream of the mouth. Bull trout, mountain whitefish, and slimy sculpin were captured downstream of the barrier (site 30) and fish are assumed to be absent upstream.



Plate 9: Richards Creek.
Upstream aerial view of upper Richards Creek above site 34.
(Note: 40 m waterfall at top of frame).
(CD 3 Im 178)



Plate 10: Duffield Creek.

Aerial view of Duffield Creek valley, downstream toward Richards Creek from near site 41. (CD 3 Im 207)



Plate 11: Duffield Creek.
Aerial view of headwaters of Duffield Creek, upstream from near site 41. (CD 3 Im 206)



Plate 12: Hewer Creek.
Impassible 10 m waterfall, forming the upstream limit of fish distribution in Hewer Creek.
(CD 3 Im 191)

#### 4.3 Fish Age and Growth

Fork lengths and aging structures were collected from representatives of four "sport-fish" species within the Besa-Prophet *Overview Inventory* project area between August 28 and September 15, 2000. These were rainbow trout, bull trout, Arctic grayling, and mountain whitefish.

A meaningful analysis of growth is precluded by small sample sizes, absence of representatives from numerous age classes and, in the case of bull trout, variability in the combined sample due to the probable existence of sub-populations within the project area. Limited information on the life history of each species can be gleaned from general age class distribution within the watershed. A brief discussion of each of the four species follows. Where possible, length-frequency and age-at-length plots are presented, however, the limitations of sample size and sampling bias should be acknowledged.

#### 4.3.1 Rainbow Trout

Eight rainbow trout were captured within the project area, all in the Besa River and tributaries, within 15 km of Redfern Lake. All fish were juveniles (3 YOY, 4 yearlings and 1 age 2+).

Rainbow trout were introduced into Redfern and Fairy Lakes in 1984. The presence of these age classes indicates either the establishment of a limited fluvial population in the Besa River mainstem, the presence of an outlet spawning adfluvial population, or both.

#### 4.3.2 Arctic Grayling

Nineteen Arctic grayling were captured within the project area in mainstem and tributary habitats. The majority of these fish (68%) were adults (age classes 4+ to 6+). The YOY and yearling age classes appear virtually absent from the project area, indicating that spawning and juvenile rearing likely takes place in lower Prophet River tributaries, downstream of the project area. The only representative of these two age classes was a single YOY captured immediately downstream of Redfern Lake. This fish may indicate the presence of a limited adfluvial population. The only other juvenile grayling sampled were several 2+ fish captured in Bat Creek, which is the furthest downstream tributary in the project area. Over-summering adults accounted for all other Arctic grayling use. Adult grayling are assumed to move into the project area beginning in late May, after spawning in warmer, more turbid tributaries downstream. They are also assumed to vacate much of the project area by mid October, as water temperatures drop, in preference for larger mainstem over-wintering habitat. Data from comparable watersheds within the Halfway River and Sukunka River systems suggest similar patterns (BC Environment 1999a, 1999b, unpubl. data). Figure 2 and Table 4 represent lengthfrequency and length-at-age plots for Arctic grayling sampled during the assessment.

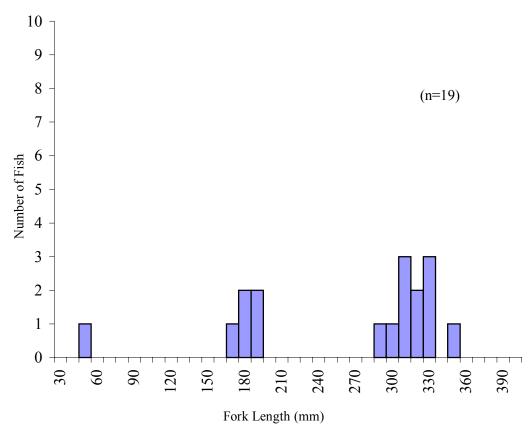


Figure 2. Length-frequency relationship of Arctic grayling captured in the Besa-Prophet Overview Inventory project area between August 28 and September 15, 2000.

Table 4. Age-length relationship of Arctic grayling captured in the Besa-Prophet Overview Inventory project area between August 28 and September 15, 2000.

	Assigned Age								
	0+	1+	2+	3+	4+	5+	6+		
Mean Fork Length (mm)	57	-	184	-	312	332	352		
Range (mm)	-	-	117-197	-	292-329	306-375	-		
n =	1	0	5	0	3	8	1		

#### 4.3.3 Mountain Whitefish

A total of 115 mountain whitefish were captured within the project area in both mainstem and tributary habitats. The majority of these fish (54%) were YOY juveniles sampled in the Prophet River and Besa River mainstems. No YOY juveniles and few yearlings were captured in tributary streams. Post-yearling juveniles, sub-adults, and adults, ranging in age from 2+ to 7+, were common in tributary habitats, including Bat Creek, Nevis Creek, Keily Creek, Petrie Creek, Richards Creek, and two unnamed Prophet River tributaries. Figure 3 represents the length-frequency relationship of the combined sample while Table 5 summarizes age-at-length for 90 samples to which ages were assigned.

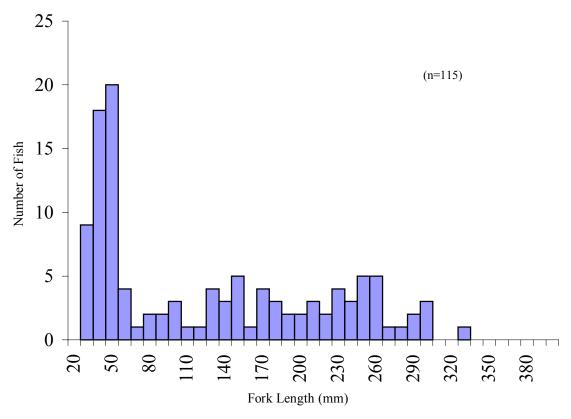


Figure 3. Length-frequency relationship of mountain whitefish captured in the Besa-Prophet Overview Inventory project area between August 28 and September 15, 2000.

Table 5. Age-length relationship of mountain whitefish captured in the Besa-Prophet Overview Inventory project area between August 28 and September 15, 2000.

	Assigned Age									
0+ 1+ 2+ 3+ 4+ 5+ 6+							6+	7+		
Mean Fork Length (mm)	47	111	145	191	216	254	268	339		
Range (mm) n=	32-61 49	93-137 6	109-180 13	163-237 8	191-248 3	222-305 5	236-290 5	- 1		

Mountain whitefish appear to spawn in the Prophet and Besa River mainstems within the project area, as indicated by relatively high densities of young-of-the-year juveniles. Post-yearling juveniles, sub-adults, and adults were widely distributed throughout a variety of mainstem and tributary habitats during the assessment.

#### 4.3.4 Bull Trout

Sixty-four bull trout were captured within the project area, almost all in tributary habitats. Rearing juveniles captured in Petrie Creek, Duffield Creek, and Richards Creek accounted for the majority of the sample (67%). Five mature, ripe males ranging in age from 5+ to 9+ were sampled in upper Richards Creek (site 34). A limited number of rearing juveniles and 2 precocious, ripe males were sampled in Keily Creek. The remainder of the sample consisted mainly of age 3+ to 5+ sub-adults. Figure 4 represents the length-frequency relationship of the combined sample, while Table 6 summarizes age-at-length for 49 fish to which ages were assigned.

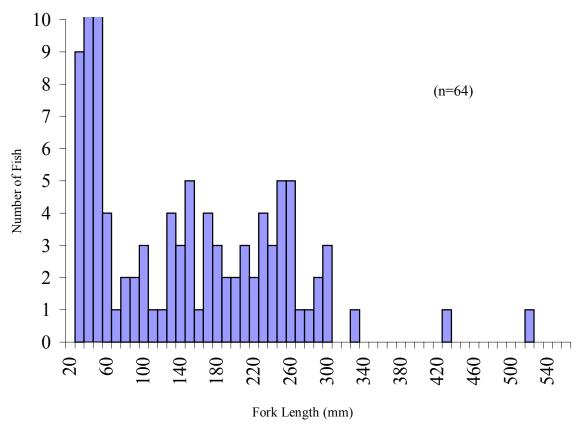


Figure 4. Length-frequency relationship of bull trout captured in the Besa-Prophet Overview Inventory project area between August 28 and September 15, 2000.

Table 6.	Age-length relationship of bull trout captured in the Besa-Prophet Overview Inventory
	project area between August 28 and September 15, 2000.

	Assigned Age									
	0+	1+	2+	3+	4+	5+	6+	7+	8+	9+
Mean Fork Length (mm)	48	99	157	215	259	315	-	435	400	525
Range (mm)	48-49	72- 119	115- 180	165- 330	-	315- 315	-	-	-	-
n=	2	15	15	11	1	2	0	1	1	1

#### 4.4 Significant Features and Fisheries Observations

Due to their blue-listed (i.e., vulnerable) status in British Columbia and large-scale declines over their North American range, bull trout are of special management concern in the Besa-Prophet. Bull trout are much more specific in their spawning habitat requirements than spring spawning species or fall broadcast spawners, such as Arctic grayling and mountain whitefish. As a result, they are often unable to successfully reproduce in habitats suitable for spawning grayling and whitefish. Once deposited and buried, bull trout eggs must incubate in the gravel of the streambed for up to eight months (Sept-April) before hatching. During this period, redd sites must remain silt-free and receive a constant supply of oxygenated water regardless of surface flow conditions. Ground-water upwelling within the stream channel appears to play a role in maintaining this consistency (McPhail and Baxter 1996, Baxter 1997, Service 1998) and may be important in spawning habitat selection.

Bull trout populations within the project area are likely migratory, and may consist of more than one sub-population. Adults are assumed to over-winter in the lower Prophet River mainstem and move upstream into spawning tributaries by late summer. Three potentially important bull trout spawning locations were identified through the presence of mature, spawning fish and/or moderate to high densities of YOY and yearling juveniles. These are located on Petrie Creek, Duffield Creek, and upper Richards Creek. There also appears to be limited bull trout reproduction in Keily Creek.

The current assessment was conducted after the assumed peak of spawning activity. As a result, specific critical spawning locations could not be identified. No mature, spawning fish were captured in Petrie or Duffield Creeks, but juvenile densities suggest significant spawning success. Only mature males remained in Richards Creek at the time of the assessment.

Potential impacts to bull trout from industrial development in the Besa-Prophet include increased siltation on spawning/incubation sites, disruption of winter ground-water patterns, and increased access and angling pressure on migrating, staging and spawning adults.

Mainstem and tributary streams within the study area appear to provide important post-spawning, summer refuge for adult Arctic grayling from the broader Prophet River watershed. Mature Arctic grayling (age 5+ to 8+) are sensitive to over-harvest and can be significantly affected by increased human access to key summer holding habitats.

Mountain whitefish are widely distributed throughout the project area and may be the most abundant fish species present. This species is generally less affected by human development due to their less stringent spawning habitat requirements, their general preference for larger streams, and their lower appeal to anglers.

#### 4.5 Future Research Recommendations

In the face of proposed industrial development in portions of the upper Prophet and Besa River drainages, it is important to further define critical bull trout spawning areas in identified tributaries and determine their relative importance to the overall Muskwa-Prophet bull trout population. Possible methods to collect this information include aerial survey of redds and spawning adults on identified streams during the peak spawning period and short-term radio-telemetry to determine over-wintering areas, migration timing, and critical staging areas.

Information on seasonal movements and critical over-wintering, spawning, and juvenile rearing habitat for Arctic grayling using summer habitat within the upper Prophet and Besa River drainages is required to understand the protection requirements of all life phases of this species.

#### PERSONAL COMMUNICATIONS

Kathy and Kim Donally, Nevis Creek Ranch, Nevis Creek.

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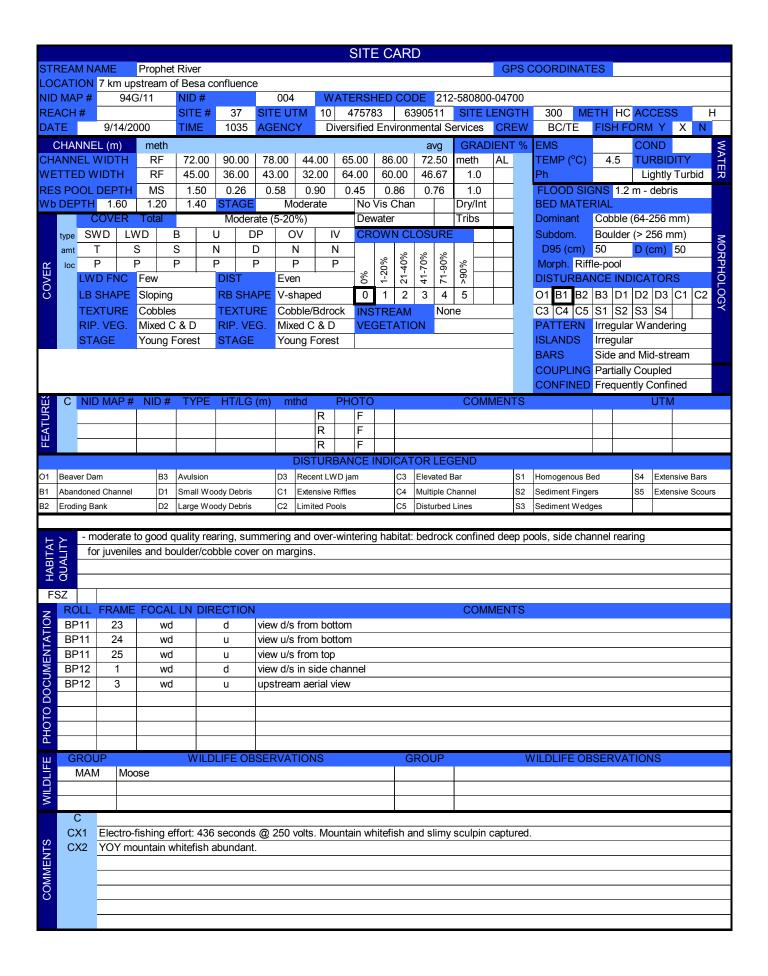
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# **APPENDIX I**

**PROPHET RIVER** (212-580800-04700)

**Sample Site 37** 

Site Data Card, Fish Collection Form and Site Photographs



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С	3; 3; 3; 3; 3; 3;	7 7 7 7 7 7 7 7	EF/* EF/* EF/* EF/* EF/* EF/*	1 1 1 1 1 1 1 1		MW MW MW MW MW MW MW MW	(mm) 53 53 59 54 46 56 61 49	WEIG	HT			IR			Ξ#	AGE			COMM	MENTS	
С	3; 3; 3; 3; 3; 3; 3;	7 7 7 7 7 7 7 7 7	EF/' EF/' EF/' EF/' EF/' EF/' EF/'	1 1 1 1 1 1 1 1 1		MW MW MW MW MW MW MW MW MW	(mm) 53 53 59 54 46 56 61 49 51	WEIG	HT			IR			E #	AGE			COMM	MENTS	
С	3. 3. 3. 3. 3. 3. 3. 3.	7 7 7 7 7 7 7 7 7 7	EF/' EF/' EF/' EF/' EF/' EF/' EF/' EF/'	1 1 1 1 1 1 1 1 1 1		MW MW MW MW MW MW MW MW MW MW	(mm) 53 53 59 54 46 56 61 49 51	WEIG	HT			IR			Ξ#	AGE			COMM	MENTS	
С	3. 3. 3. 3. 3. 3. 3. 3.	7 7 7 7 7 7 7 7 7 7 7	EF/* EF/* EF/* EF/* EF/* EF/* EF/* EF/*	1 1 1 1 1 1 1 1 1 1 1 1		MW MW MW MW MW MW MW MW MW MW	(mm) 53 53 59 54 46 56 61 49 51 51 46 52	WEIG	HT			IR			E #	AGE			COMM	MENTS	
С	33 33 33 33 33 33 33 33 33 33 33 33 33	77 77 77 77 77 77 77 77 77 77	EF/* EF/* EF/* EF/* EF/* EF/* EF/* EF/*	1 1 1 1 1 1 1 1 1 1 1 1		MW M	(mm)  53  53  59  54  46  56  61  49  51  51  46  52  51	WEIG	HT			IR			E #	AGE			COMM	MENTS	
С	33 33 33 33 33 33 33 33 33 33 33 33 33	7 7 7 7 7 7 7 7 7 7 7 7	EF/* EF/* EF/* EF/* EF/* EF/* EF/* EF/*	1 1 1 1 1 1 1 1 1 1 1 1 1 1		MW M	(mm)  53  53  59  54  46  56  61  49  51  51  46  52  51  57	WEIG	HT			IR			<b>= #</b>	AGE			COMM	MENTS	
С	33 33 33 33 33 33 33 33 33 33 33 33 33	7 7 7 7 7 7 7 7 7 7 7 7 7 7	EF/* EF/* EF/* EF/* EF/* EF/* EF/* EF/*	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		MW M	(mm)  53  53  59  54  46  56  61  49  51  51  46  52  51  57  52	WEIG	HT			IR			= #	AGE			COMM	MENTS	
С	33 33 33 33 33 33 33 33 33 33 33 33 33	77 77 77 77 77 77 77 77 77 77 77 77 77	EF// EF// EF// EF// EF// EF// EF// EF//	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		MW M	(mm)  53  53  59  54  46  56  61  49  51  51  46  52  51  57  52  47	WEIG	HT			IR			= #	AGE			COMM	MENTS	
С	33 33 33 33 33 33 33 33 33 33 33 33 33	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	EF// EF// EF// EF// EF// EF// EF// EF//	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		MW M	(mm)  53  53  59  54  46  56  61  49  51  51  46  52  51  57  52  47  106	WEIG	HT			IR			= # <b> </b>	AGE			COMM	MENTS	
C	33 33 33 33 33 33 33 33 33 33 33 33 33	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	EF// EF// EF// EF// EF// EF// EF// EF//	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		MW M	(mm)  53  53  59  54  46  56  61  49  51  51  46  52  51  57  52  47  106  52	WEIG	HT			IR			= # <b> </b>	AGE			COMM	MENTS	
С	33 33 33 33 33 33 33 33 33 33 33 33 33	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	EF// EF// EF// EF// EF// EF// EF// EF//	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		MW M	(mm)  53  53  59  54  46  56  61  49  51  51  46  52  57  52  47  106  52  55	WEIG	HT			IR			= #	AGE			COMM	MENTS	
C	33 33 33 33 33 33 33 33 33 33 33 33 33	77 77 77 77 77 77 77 77 77 77 77 77 77	EF// EF// EF// EF// EF// EF// EF// EF//	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		MW M	(mm)  53  53  59  54  46  56  61  49  51  51  46  52  57  52  47  106  52  55  48	WEIG	HT			IR			= #	AGE			COMM	MENTS	
С	33 33 33 33 33 33 33 33 33 33 33 33 33	77 77 77 77 77 77 77 77 77 77 77 77 77	EF// EF// EF// EF// EF// EF// EF// EF//	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		MW M	(mm)  53  53  59  54  46  56  61  49  51  51  46  52  57  52  47  106  52  55	WEIG	HT			IR			= #	AGE			COMM	MENTS	

						NDIVIDUA	AL FISH	- DATA	page 2	of 2		
					LENGTH	WEIGHT			Jugo L	AGE		
С	SITE#	MD/NO	H/P	SPECIES	(mm)	(gms)	SEX	MATUR	STR	SAMPLE #	AGE	COMMENTS
	37	EF/1	1	CCG	52	(9.110)			0	07 HI 12 17	7.02	
	37	EF/1	1	CCG	79							
	37	EF/1	1	CCG	99							
	37	EF/1	1	CCG	65							
	37	EF/1	1	CCG	46							
	37	EF/1	1	CCG								
	37	EF/1	1	CCG	78 52							
	37	EF/1 EF/1	1	CCG CCG	52							
	37	EF/1	1	CCG	39							
					1	1				1		



Prophet River
Site 37: View downstream from bottom of site.
(Roll BP11 - Exp 23; CD 3 - Im 192)



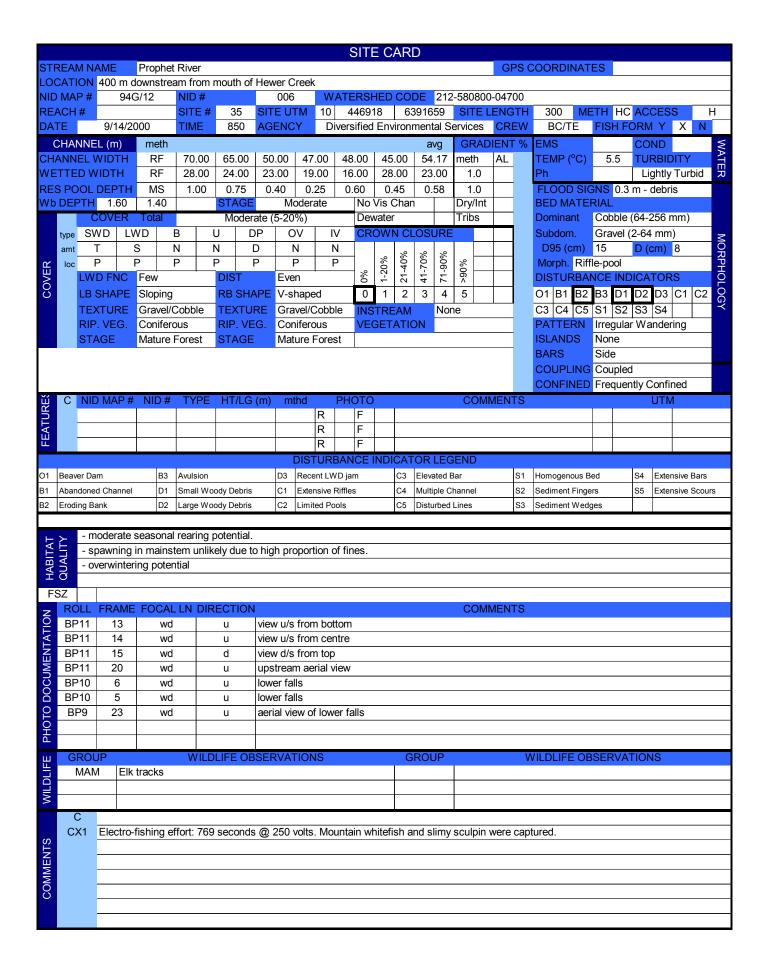
Prophet River Site 37: Upstream aerial view. (Roll BP12 - Exp 3; CD 3 - Im 196)

## **APPENDIX II**

#### PROPHET RIVER

(212-580800-04700)

## **Sample Site 35**



								F	ISH	COLL	ECTIO	N FOR	RM								
STF	REAN	M NAM	E	Prop	ohet Ri	iver										LAKE		STREA	М	WE	ETLAND
	CATI			400	m dow	vnstrea	m from mout			reek			RSH		CODE						
		BODY	ID					ILP MA			ILP							TTACHE		XY	N
PRO	)JE(	CT ID		E	Besa-P	rophet	Overview	REACH	l #		SIT	E#	35	F	FISH PE		Γ#	S		0-021	
DAT	Έ		9/14/	/2000	) to	o 9	9/14/2000	AGENC	Υ	Diversifi	ed Enviro	onmental	Serv	ices	CRE	EW	E	C/TE		RE-SAN	MPLE
	0	ITC #	NUE	> N 4 A	D# \	.IID #	OITE	11784		METIL	2D/NO	STREA	AM C	DNC	ITION			CON40	4ENIT	-0	
SITE / METHOD	5	ITE#	INIL	) MA	ין # רו	NID#	SILE	UTM		METHO	JD/NO.	TEMP	СО	N	TURB			COM	/IEIN I	5	
픋		35	9	4G/1	2	006	10.44691	8.63916	59	EF	1	5.5			L						
ME																					
Ε,																					
E																					
•																					
	SIT	E# N	//D/N	NO	H/P	SPECIE	ES STAGE	AGE	ТО	TAL NO	MIN LI	V (mm)	MA	X LN	l (mm)	FISH	H ACT		COM	IMENTS	3
≿	3	5	EF/1	1	1	MW	NS			14	8	0		200	0	Re	aring				
1AF	3	5	EF/1	1	1	CCG	NS NS			8	3	2		75	5	Re	aring				
M																					
SU																					
FISH SUMMARY																					
正																					
GEAR SPECS																		FICATIO			
SPE	С	SITE #	# MD	/NO	H/P I	DATE	IN TIME	IN DA	TE (	OUT TIM	1E OUT	NET TY	/PE	LEN	NGTH	DE	PTH	MESH S	SIZE	SET	HAB
Ä																					
ΉE																					
U													0110								
	<u></u>	CITE 4	4 1 1 1	/NO	LI/D	TIME	INI TIME C			ROFISHE				ENIC		N.T.	EDEO.	DLCE	N		MDI
	С	SITE #		/NO F/1	1 1	TIME I 0855			F SE 769		NGTH 300	WIDT 23.0		ENC			FREQ 60	PLSE Fixed		offelt	MDL Mk X
	С	33		7.1	'	0000	0920	,	703		300	20.0	,		20	50	00	1 IXCU	C	OHEIL	IVIK X
SE S																					
ME																					
COMMENTS																					
Ö																					
									ND	IVIDUA	L FISI	H DAT	Ą								
С	SIT	E#M	D/NIO	H/D	SPE	CIES	LENGTH	WEIG	HT	SEX	MATL	ID		Α	(GE			C		ENTS	
	011			1 1/1			(mm)	(gms	s)	OLX	WATC	" S	TR	SAN	1PLE#	AG	E	0	CIVIIVI	LIVIO	
	3		F/1	1	M		200					Sc	ale	3	5-1	rege	n				
	3		F/1	1	M		84														
	3		F/1	1	M		80														
	3		EF/1	1	M		34														
	3		EF/1	1	M		37														
	3		F/1	1	M		36														
	3		EF/1 EF/1	1	M\		41														
	3		EF/1	1	M		39 41	-													
	3		F/1	1	M		39	-					-								
	3		F/1	1	M\		52	<del>                                     </del>													
	3		F/1	1	M\		46														
	3		F/1	1	M\		45														
	3		F/1	1	M		43														
	3		F/1	1	CC		75														
	3		F/1	1	CC		51														
	3		F/1	1		CG	51	1													
	3	5 E	F/1	1		CG	65														
	3		F/1	1	CC	CG	69														
							03														
	3		F/1	1		CG	61														
		5 E	F/1 F/1 F/1	1		CG CG															



Prophet River
Site 35: View upstream from bottom of site.
(Roll BP11 - Exp 13; CD 3 - Im 183)

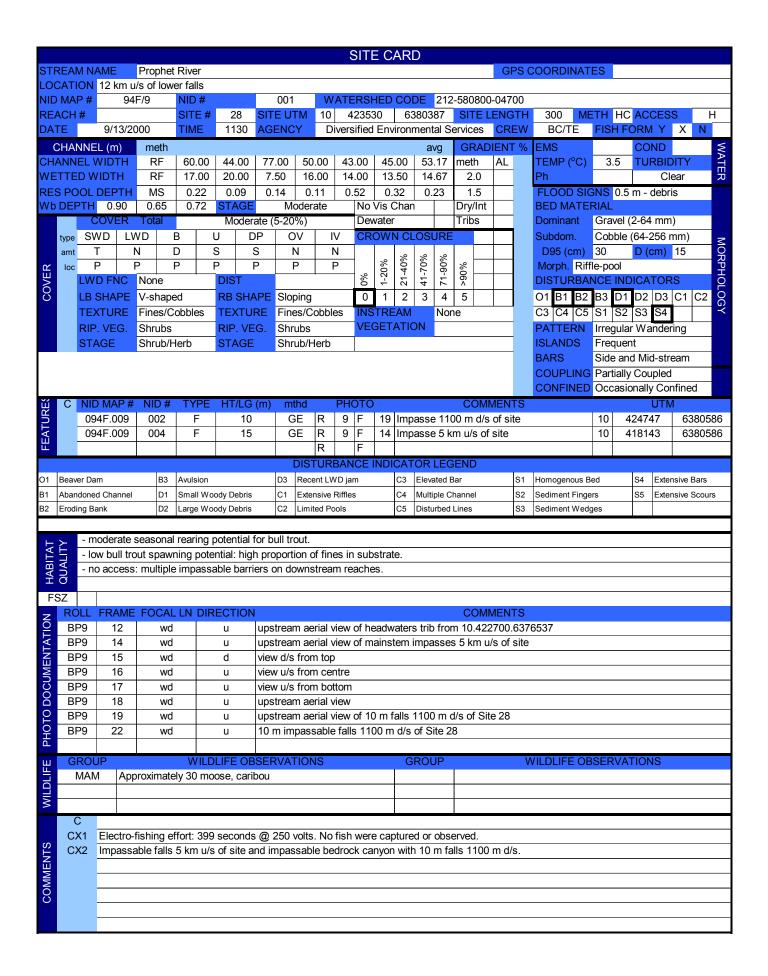


Prophet River Site 35: Upstream aerial view. (Roll BP11 - Exp 20; CD 3 - Im 186)

# **APPENDIX III**

**PROPHET RIVER** (212-580800-04700)

Sample Site 28



									FI	SH	COLL	ECTIO	N FOF	RM									
STF	STREAM NAME Prophet River  LOCATION 12 km u/s of lower  NATERBODY ID																LAKI	X	STRE	EΑΜ		WET	ΓLAND
LOC	CATI	ON		12	km u	s of lowe	er falls	3						RSH	IED (	CODE	212-	580800	0-04700	)			_
									ILP MAI			ILP				SITE/LA			ATTAC		Х	Υ	N
		CT ID				ophet O			REACH			SIT		28		FISH PI		Τ#		SC20	000-02		
DAT	Έ		9/	13/200	0	to 9	9/13/2	2000	AGENC	Υ	Diversifi	ed Enviro	onmental	Serv	rices	CR	EW		BC/TE		RE-S	SAME	PLE
	c	ITE#	<i>4</i> ,	NID MA	<b>ND#</b>	NID#		SITE	LITM		METH	OD/NO.	STREA	AM C	OND	ITION			CO	MMEN	ITC		
SITE / METHOD	3	11 E #	<sup>*</sup>  '	NID IVIA	\r #	MID#		SIIE	UTIVI		METH	JU/NO.	TEMP	СО	N	TURB			COI	IVIIVIEI	113		
Ĕ.		28		94F/	′9	001	10	.423530	0.638038	37	EF	1	3.5			С							
ME																							
Έ.																							
SIT																							
	SIT			D/NO	H/P			STAGE	AGE	TO	TAL NO	MIN LI	N (mm)	MA	X LN	l (mm)	FISI	H ACT	<u> </u>	CO	MMEN	NTS	
RY	2	8	Е	F/1	1	NFC	;				0												
FISH SUMMARY																							
M																							
S																							
is																							
т.																							
U)																NICT / T		CDEC	III CAT	FIONIC			
GEAR SPECS	<u>C</u>	CITI	- 4 L	MD/NO	JLI/D	DATE	INI	TIME	INI DA	TE C	OUT TIN	ЛЕ OUT	NET T	/DE		NET / T		PTH	MESI		_	<b>T</b>	LIAD
SP	С	SITE	= #   1	VID/INO	п/Р	DATE	IIN	I IIVIE	IN DA	IE	JUT TIK	IE OUT	NET I	TPE	LEI	NGIH	DE	РІП	INESI		SE	. 1	HAB
AR																							
GE,																							
									ELE	CTF	OFISHE	R SPEC	IFICATI	ONS									
	С	SITE	= # N	MD/NO	H/P	TIME	IN .	TIME O		F SE		NGTH	WIDT		ENC	CI VC	DLT	FREQ	PLS	F	MAKE		MDL
	Ŭ	28		EF/1	1	1135		1205		399		300	14.7		0		50	60	Fixe		Coffel		Mk X
						1 100		1200	,	000		3UU	17.7				JU		LIVE	u i	COLICI		
S	С				<u>'</u>	1100	,	1200	,	333		300	14.7				50	00	TIXE	u	Conen	`	WIICZ
NTS	С			L171		1100		1200	,	333		300	14.7				50		LIXE	iu	Conen	`	WIICZ
MENTS	С					1100		1200	,	399		300	14.7						rixe	iu	Cone	`	
OMMENTS	С			2171	'	1100		1200	,	399		300	14.7				JU		FIXE	:u	Cone	`	
COMMENTS	С					1100		1200			\						30		Fixe	:u	Cone		
COMMENTS	С					1100		1200			\	AL FISI					30		Fixe		Cone		
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
COMMENTS				NO H/F		PECIES	LEN			ND HT	\		H DAT	A	A		AG				MENT		
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							
							LEN	NGTH	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE							



Prophet River
Site 28: View upstream from bottom of site.
(Roll BP9 - Exp 17; CD 2 - Im 140)



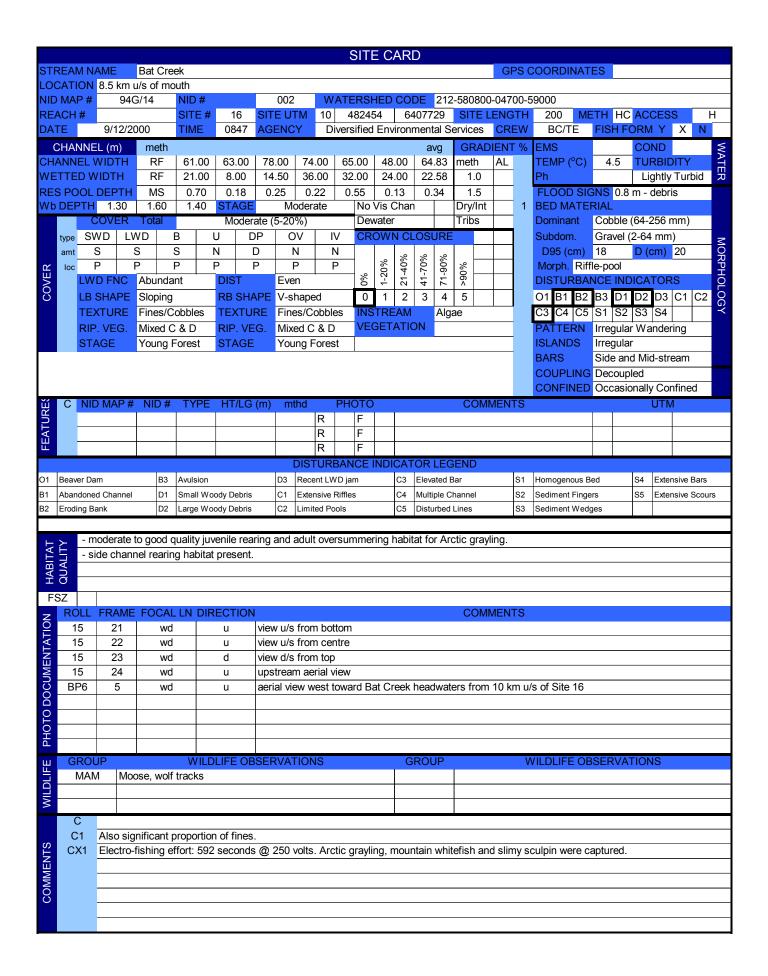
Prophet River Site 28: Upstream aerial view. (Roll BP9 - Exp 18; CD 2 - Im 141)

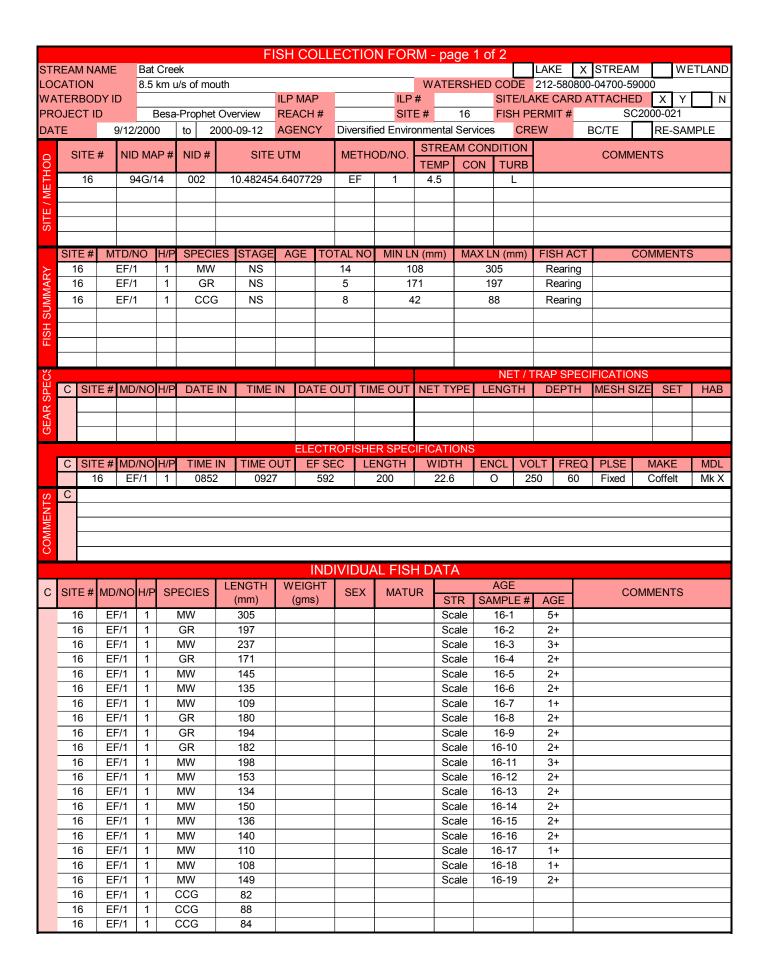
### **APPENDIX IV**

#### **BAT CREEK**

(212-580800-04700-59000)

## Sample Site 16





					IN	IDIVIDUA	L FISH	DATA - F	PAGE 2	of 2		
С	SITF#	MD/NO	H/P	SPECIES	LENGTH	WEIGHT	SEX	MATUR		AGE		COMMENTS
					(mm)	(gms)	OLX	WATOR	STR	SAMPLE#	AGE	COMMENTO
	16	EF/1	1	CCG	69							
	16 16	EF/1 EF/1	1	CCG CCG	66 60							
	16	EF/1	1	CCG	42							
	16	EF/1	1	CCG	43							



Bat Creek
Site 16: View upstream from bottom of site.
(Roll 15 - Exp 21; CD 2 - Im 73)



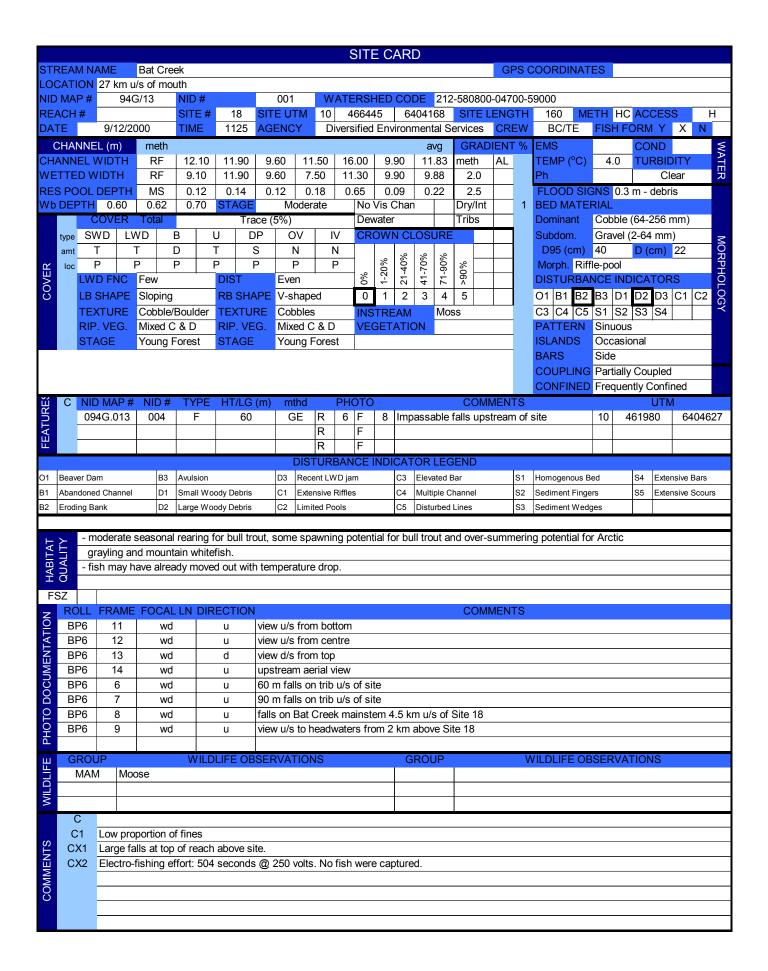
Bat Creek
Site 16: Upstream aerial view.
(Roll 15 - Exp 24; CD 2 - Im 76)

## **APPENDIX V**

#### **BAT CREEK**

(212 - 580800 - 04700 - 59000)

## Sample Site 18



									FI	SH	COLL	ECHO	N FOF	RM					_			
		M NA	AME	В	3at Cre	ek											LAKE		STRE			ETLAND
LOC	CATI	ON		2	?7 km ι	ı/s of mou	uth						WATE	RSHE	D COI	DE	212-5	80800	-04700-	-59000	)	
WA	TER	RBOE	OY IE	)					ILP MAF	>		ILP	#		SIT	E/LA	KE C	ARD A	TTACH	HED	ΧY	N
PRO	)JE	CT IE	)	В	Besa-P	rophet Ov	erviev	N	REACH	#		SIT	E#	18	FIS	H PE	ERMIT	#		SC200	00-021	·
DAT	Έ		9	9/12/20	000	to 9	9/12/2	2000	AGENC	Υ	Diversif	ed Enviro	onmental	Service	ces	CRE	ΞW	Е	3C/TE		RE-SAI	MPLE
			Ť			.5	, , _ , _									_						
Ω	S	ITE:	#	NID I	MAP#	NID#		SITE	UTM		METH	OD/NO.	STREA	_		_			COM	IMEN <sup>-</sup>	ΓS	
SITE / METHOD													TEMP	COI								
島		18		940	G/13	001	10	.466445	5.640416	88	EF	1	4		(	2						
≅																						
E/																						
늞																						
•																						
	SIT	E#	МТ	ΓD/NC	) H/F	SPECI	ES S	STAGE	AGE	TO	TAL NO	MIN LI	V (mm)	MAX	(LN (m	ım)	FISH	I ACT		CON	MENTS	3
ς.	1			EF/1	1	NFC		J.,	7.02		0		()	111111111111111111111111111111111111111	. = (					00		
Ř		0			- '	141 0	_															
×																						
$\leq$																						
S																						
FISH SUMMARY																						
ш																						
										L												
SS															NE	T / T	RAP	SPEC	FICATI	ONS		
GEAR SPECS	С	SIT	E#	MD/N	IO H/F	DATE	IN	TIME	IN DA	TE C	OUT TIM	/IE OUT	NET T	/PE	LENG <sup>*</sup>	ΤН	DE	PTH	MESH	SIZE	SET	HAB
S	C SITE# MI																					
AF																						
B																						
									ELE	CTE	OFIGUE	R SPEC	IEICATI	ONIC								
	<u> </u>	CIT	_ #I	MD/N	IO H/F	TIME	INI -	TIME O		F SE		NGTH	WIDT		TNCL	VO	ı T	TDEO.	PLSE	·		MDL
	С	1		EF/		1130		1152		504		160	9.9		ENCL O	25		FREQ 60	Fixed		Offelt	
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TS	С		'						-	00-1		100	9.9				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		TIACO			
ENTS	С								-	004		100	9.9						Tixed			
<b>AMENTS</b>	С								-	001		100	3.9						Tixod			
COMMENTS	С								-	001		100	9.9				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Tixod			
COMMENTS	С										1								T IACO			
COMMENTS	С										1	AL FISI							1 IACO			
		- H	MD/					NGTH		ND	IVIDU	AL FISI	H DAT		AGE							
COMMENTS		E#	MD/	NO H		PECIES	LEN			ND HT	1		H DAT	A			AGI				1ENTS	
		Е#	MD/	'NO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	'NO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	'NO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	YNO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	'NO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	'NO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	'NO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	'NO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	'NO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	YNO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	YNO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	YNO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	YNO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	NO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	YNO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	YNO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	'NO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	'NO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	'NO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	YNO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	'NO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							
		E#	MD/	'NO H			LEN	NGTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE							



Bat Creek
Site 18: View upstream from bottom of site.
(Roll BP6 - Exp 11; CD 2 - Im 82)



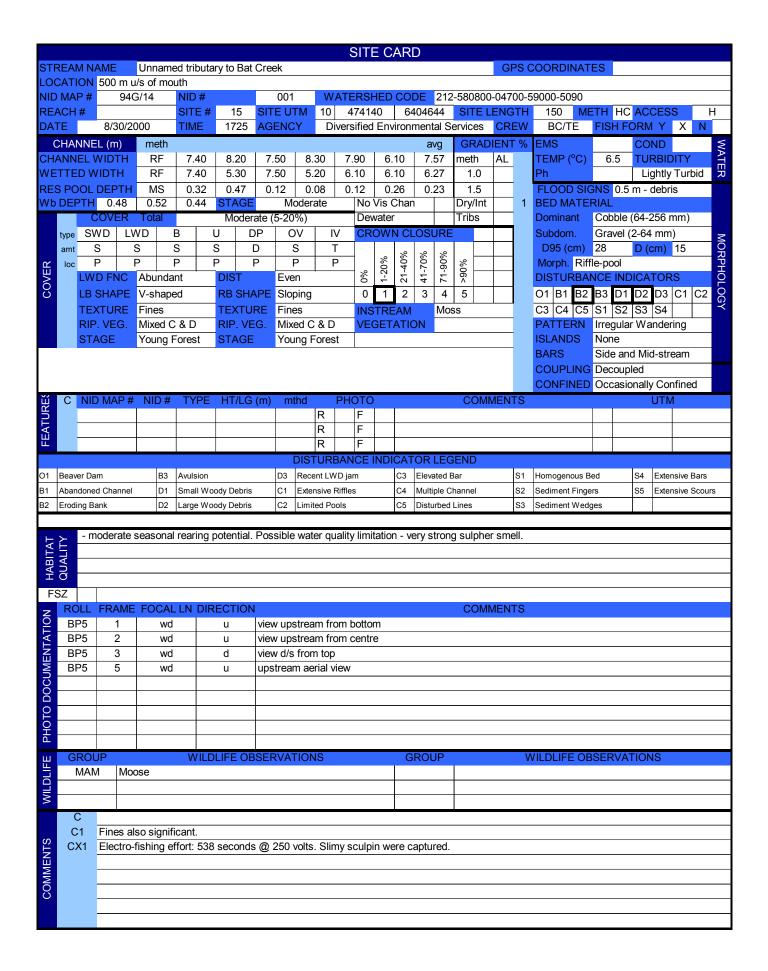
Bat Creek Site 18: Upstream aerial view. (Roll BP6 - Exp 14; CD 2 - Im 85)

### **APPENDIX VI**

### UNNAMED TRIBUTARY TO BAT CREEK

(212-580800-04700-59000-5090)

### Sample Site 15



									FI	SH	COLL	ECTIO	N FOR	₹IVI							<u>.                                    </u>	
	OCATION 500 m u/s of mouth						Bat Cree	:k								LAKE		STREA			TLAND	
	OCATION 500 m u/s of mouth ATERBODY ID ROJECT ID Besa-Prophet Overvi					ıth		_					RSH					-04700-				
	ATERBODY ID  ROJECT ID  Besa-Prophet Overvi							ILP MAF			ILP							TTACH		ΧY	N	
		CT ID							REACH			SIT		15		_	ERMIT				00-021	
DAT	Έ		8/30/	/2000	)	to 8	3/30/	2000	AGENC	Υ	Diversif	ied Enviro				CRE	ΞW	В	BC/TE	$oldsymbol{ol}}}}}}}}}}}}}}}}}}$	RE-SAM	1PLE
	S	ITE#	NIL	D MA	P#	NID#		SITE	LITM		METH	OD/NO.	STREA	AM C	TIDNC	ION			COM	IMENT	rs.	
SITE / METHOD		1 L .,				INID //		01.2	C 1 .v.			00/140.	TEMP	СО	N TU	JRB			00	IVIL.		
点		15	9	94G/1	4	001	1/	0.474140	).640464	4	EF	1	6.5			L						
ME																						
E/			1_																			
S																						
	_																					
	SIT		MTD/N		H/P		_	STAGE	AGE	TO	TAL NO			MA.	X LN (r	nm)	FISH			COM	MENTS	
R	1	5	EF/1	1	1	CCG	ì	NS			2	8	34		111	$\longrightarrow$	Rea	aring	<u> </u>			
MA				$\longrightarrow$				<b>—</b>		ـــــ				ļ		$\longrightarrow$			<u> </u>			
N										<u> </u>		ļ										
H S				$\longrightarrow$										-		$\longrightarrow$						
FISH SUMMARY					_			<b></b>		₩		ļ		-		$\longrightarrow$			<u> </u>			
ш		-			$\vdash$			<del>                                     </del>		-		-				$\longrightarrow$						
Ų,													L.		NI	т/т	DAD	PDECI	FICATION	ONC		
GEAR SPECS	С	SITE#	# [MD	/NIO	U/D	DATE	INI	TIME I	M DΔ.	TE C	יוד דווי	ME OUT	NET TY	/DE	LENG		DEF		MESH		SET	HAB
SP	$\overline{}$	SIIL	# IVID	/NO	17/1	DAIL	IIN	I IIVIL I	N DA	ILC	101 11	/IE OUT	INL	TFL	LLING		DLI	THE	MEGII	SIZL	3L1	ПАБ
AR			+						_											-		
GE			+						$\overline{}$		-									$\rightarrow$		
										CTR	OFISH	ER SPEC	JEICATI	ONS								
	С	SITE #	# MD	/NO	H/P	TIME	IN	TIME O		F SE		ENGTH	WIDT		ENCL	VO	LT F	REQ	PLSE	N	1AKE	MDL
		15		F/1	1	1730		1755		538		150	6.3		0	25		60	Fixed		offelt	Mk X
		-					,		' I			100	0.0			~	, ,		I IACU			
S	С							1700		-		100	0.0						TIXCO			
STN	С				· ·							100	0.0						TIACC			
MENTS	С											100							Tixed			
OMMENTS	С											130	0.0						Tixed			
COMMENTS	C																		Tixed			
COMMENTS	C									NDI		AL FISH							Tixed			
COMMENTS	-						LE	NGTH	   WEIGH	NDI HT			H DAT	A	AG	E					IENTS	
	SIT	E# MI	D/NO	H/P	SPI	ECIES	LE (	NGTH (mm)		NDI HT	IVIDUA	AL FISH	H DAT	A		E	AGE					
	SITI	E # MI	D/NO EF/1	H/P	SPI	ECIES CCG	LE (	ENGTH (mm)	   WEIGH	NDI HT	IVIDUA	AL FISH	H DAT	A	AG	E						
	SIT	E # MI	D/NO	H/P	SPI	ECIES	LE (	NGTH (mm)	   WEIGH	NDI HT	IVIDUA	AL FISH	H DAT	A	AG	E						
	SITI	E # MI	D/NO EF/1	H/P	SPI	ECIES CCG	LE (	ENGTH (mm)	   WEIGH	NDI HT	IVIDUA	AL FISH	H DAT	A	AG	E						
	SITI	E # MI	D/NO EF/1	H/P	SPI	ECIES CCG	LE (	ENGTH (mm)	   WEIGH	NDI HT	IVIDUA	AL FISH	H DAT	A	AG	E						
	SITI	E # MI	D/NO EF/1	H/P	SPI	ECIES CCG	LE (	ENGTH (mm)	   WEIGH	NDI HT	IVIDUA	AL FISH	H DAT	A	AG	E						
	SITI	E # MI	D/NO EF/1	H/P	SPI	ECIES CCG	LE (	ENGTH (mm)	   WEIGH	NDI HT	IVIDUA	AL FISH	H DAT	A	AG	E						
	SITI	E # MI	D/NO EF/1	H/P	SPI	ECIES CCG	LE (	ENGTH (mm)	   WEIGH	NDI HT	IVIDUA	AL FISH	H DAT	A	AG	E						
	SITI	E # MI	D/NO EF/1	H/P	SPI	ECIES CCG	LE (	ENGTH (mm)	   WEIGH	NDI HT	IVIDUA	AL FISH	H DAT	A	AG	E						
	SITI	E # MI	D/NO EF/1	H/P	SPI	ECIES CCG	LE (	ENGTH (mm)	   WEIGH	NDI HT	IVIDUA	AL FISH	H DAT	A	AG	E						
	SITI	E # MI	D/NO EF/1	H/P	SPI	ECIES CCG	LE (	ENGTH (mm)	   WEIGH	NDI HT	IVIDUA	AL FISH	H DAT	A	AG	E						
	SITI	E # MI	D/NO EF/1	H/P	SPI	ECIES CCG	LE (	ENGTH (mm)	   WEIGH	NDI HT	IVIDUA	AL FISH	H DAT	A	AG	E						
	SITI	E # MI	D/NO EF/1	H/P	SPI	ECIES CCG	LE (	ENGTH (mm)	   WEIGH	NDI HT	IVIDUA	AL FISH	H DAT	A	AG	E						
	SITI	E # MI	D/NO EF/1	H/P	SPI	ECIES CCG	LE (	ENGTH (mm)	   WEIGH	NDI HT	IVIDUA	AL FISH	H DAT	A	AG	E						
	SITI	E # MI	D/NO EF/1	H/P	SPI	ECIES CCG	LE (	ENGTH (mm)	   WEIGH	NDI HT	IVIDUA	AL FISH	H DAT	A	AG	E						
	SITI	E # MI	D/NO EF/1	H/P	SPI	ECIES CCG	LE (	ENGTH (mm)	   WEIGH	NDI HT	IVIDUA	AL FISH	H DAT	A	AG	E						
	SITI	E # MI	D/NO EF/1	H/P	SPI	ECIES CCG	LE (	ENGTH (mm)	   WEIGH	NDI HT	IVIDUA	AL FISH	H DAT	A	AG	E						
	SITI	E # MI	D/NO EF/1	H/P	SPI	ECIES CCG	LE (	ENGTH (mm)	   WEIGH	NDI HT	IVIDUA	AL FISH	H DAT	A	AG	E						
	SITI	E # MI	D/NO EF/1	H/P	SPI	ECIES CCG	LE (	ENGTH (mm)	   WEIGH	NDI HT	IVIDUA	AL FISH	H DAT	A	AG	E						
	SITI	E # MI	D/NO EF/1	H/P	SPI	ECIES CCG	LE (	ENGTH (mm)	   WEIGH	NDI HT	IVIDUA	AL FISH	H DAT	A	AG	E						



Unnamed tributary to Bat Creek Site 15: View upstream from centre of site. (Roll BP5 - Exp 2; CD 1 - Im 70)



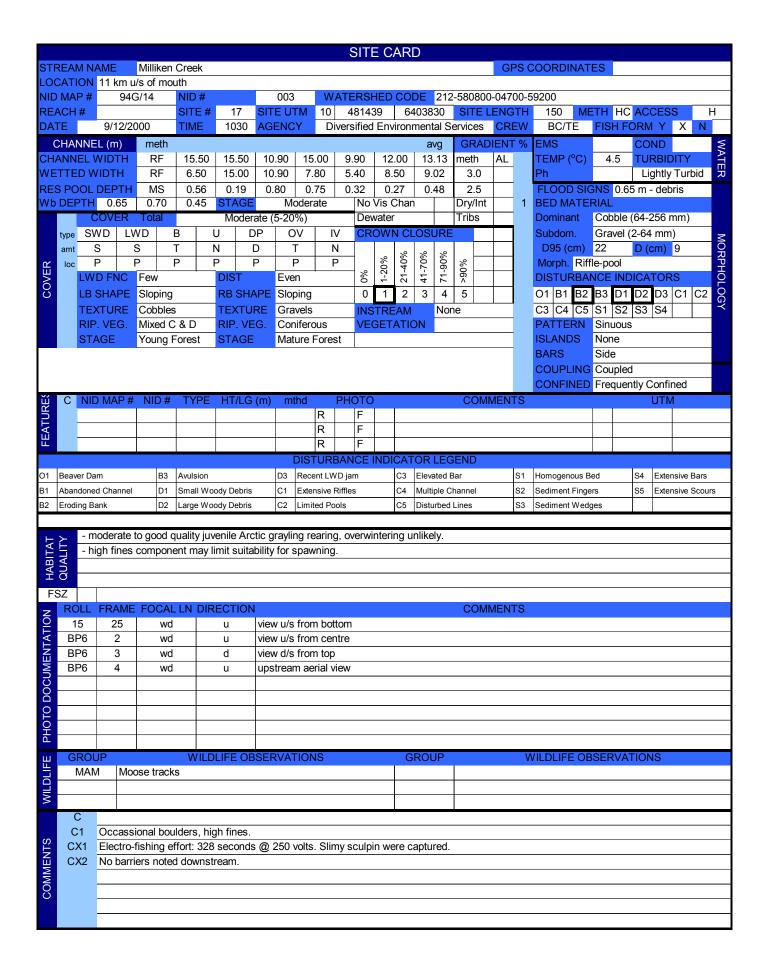
Unnamed tributary to Bat Creek Site 15: View downstream from top of site. (Roll BP5 - Exp 4; CD 1 - Im 71)

## **APPENDIX VII**

### MILLIKEN CREEK

(212-580800-04700-59200)

## Sample Site 17



									FISH	7 C	OLL	-6110	N FOR	(IVI					_			
		M NA	ME			Creek											LAKE		STRE			ETLAND
LOC				11	km u	s of mou	th						WATE	RSHE								
		BOD							MAP			ILP							TTAC		ΧY	N
		CT ID	)	Bes	a-Pr	ophet Ov			ACH#			SIT		17	_		RMI	T#		SC20	00-021	
DAT	Έ		9/	12/200	0	to 9	/12/2000	AG	ENCY	Di	iversifie	ed Enviro	nmental	Servic	es	CRE	EW	E	BC/TE		RE-SA	MPLE
	C	ITE#	4	NID MA	LD #	NID#	CIT	с пт	N A		4ETUC	ND/NO	STREA	АМ СО	NDITIO	NC			001	AN ALL NI	TC	
8	3	11 = #	<i>†</i>   '	אוט ועור	\P #	MID#	311	E UTI	IVI	IV	/IE I TIC	DD/NO.	TEMP	CON	TUI	RB			CON	/MEN	15	
푸		17		94G/	14	003	10.4814	39.64	03830		EF	1	4.5		L							
$\mathbb{R}$																						
Ε/																						
SITE / METHOD																						
•																						
	SIT	E#	MTE	D/NO	H/P	SPECII	ES STAG	E A	GE TO	OTA	L NO	MIN LI	V (mm)	MAX	LN (m	m)	FISH	I ACT		COI	имент	S
≿	1	7	El	F/1	1	CCG	NS			8	3	2	9		118		Re	aring				
FISH SUMMARY																						
M																						
SU																						
표																						
Ë																						
SS															NE	Г/Т			FICAT	IONS		
GEAR SPECS	С	SITE	E# N	/ID/NO	H/P	DATE	IN TIM	E IN	DATE	OU	T TIM	IE OUT	NET TY	/PE I	ENGT	Ή	DE	PTH	MESH	I SIZE	SET	HAB
R S																						
ΕΨ																						
Ō																						
									ELECT	ROF	FISHE	R SPEC	IFICATION	ONS								
	С	SITE		/ID/NO	H/P			OUT	EF S			NGTH	WIDT		NCL	VO		FREQ	PLS		ИАКЕ	MDL
		17	7	EF/1	1	1034	10	55	32	8		150	9.0		0	25	50	60	Fixed	1 (	Coffelt	Mk X
								-	<u>-</u>			150	3.0		Ŭ		,0	00	1 IXCC	' '	30G.R	
LS	С											130	9.0		Ū		,0		TIXCO		200.1	
SINE	С		<b>'</b>									150	9.0						TIXCO			7
AMENTS	С											150	9.0						TIACO			
SOMMENTS	С											150	9.0						Tixo			
COMMENTS	C								1										Tixo			
COMMENTS	C								INE	DIVI			H DAT						Tixo			
	-	E#	MD/N	IO H/P	SP	PECIES	LENGTH	I W	INI EIGHT	DIVI			H DAT/	4	AGE						MENTS	
	SIT			10 H/P			(mm)	I W	INE	DIVI	IDUA	L FISH	H DAT	4			AGI					
	SIT	7	EF/	10 H/P	(	CCG	(mm) 118	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							
	SITI	7	EF/	10 H/P 1 1 1 1	(	CCG CCG	(mm) 118 29	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							
	SIT:	7 7 7	EF/	10 H/P 1 1 1 1 1 1	(	CCG CCG	(mm) 118 29 77	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							
	SITI 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1:	7 7 7 7	EF/ EF/ EF/	IO H/P 1 1 1 1 1 1 1 1		CCG CCG CCG	(mm) 118 29 77 85	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							
	SITTI 111 111 111 111 111 111 111 111 111	7 7 7 7 7	EF/ EF/ EF/ EF/	IO H/P 1 1 1 1 1 1 1 1 1 1		CCG CCG CCG CCG	(mm) 118 29 77 85 86	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							
	SITI 11 11 11 11 11 11 11 11 11 11 11 11 11	7 7 7 7 7 7	EFI' EFI' EFI'	IO H/P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CCG CCG CCG CCG CCG	(mm) 118 29 77 85 86 72	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							
	SITI 111 111 111 111 111 111 111 111 111	7 7 7 7 7 7 7	EFI' EFI' EFI' EFI'	10 H/P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CCG CCG CCG CCG CCG CCG	(mm) 118 29 77 85 86 72 70	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							
	SITI 11 11 11 11 11 11 11 11 11 11 11 11 11	7 7 7 7 7 7 7	EFI' EFI' EFI'	10 H/P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CCG CCG CCG CCG CCG	(mm) 118 29 77 85 86 72	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							
	SITI 111 111 111 111 111 111 111 111 111	7 7 7 7 7 7 7	EFI' EFI' EFI' EFI'	10 H/P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CCG CCG CCG CCG CCG CCG	(mm) 118 29 77 85 86 72 70	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							
	SITI 111 111 111 111 111 111 111 111 111	7 7 7 7 7 7 7	EFI' EFI' EFI' EFI'	10 H/P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CCG CCG CCG CCG CCG CCG	(mm) 118 29 77 85 86 72 70	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							
	SITI 111 111 111 111 111 111 111 111 111	7 7 7 7 7 7 7	EFI' EFI' EFI' EFI'	10 H/P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CCG CCG CCG CCG CCG CCG	(mm) 118 29 77 85 86 72 70	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							
	SITI 111 111 111 111 111 111 111 111 111	7 7 7 7 7 7 7	EFI' EFI' EFI' EFI'	10 H/P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CCG CCG CCG CCG CCG CCG	(mm) 118 29 77 85 86 72 70	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							
	SITI 111 111 111 111 111 111 111 111 111	7 7 7 7 7 7 7	EFI' EFI' EFI' EFI'	10 H/P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CCG CCG CCG CCG CCG CCG	(mm) 118 29 77 85 86 72 70	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							
	SITI 111 111 111 111 111 111 111 111 111	7 7 7 7 7 7 7	EFI' EFI' EFI' EFI'	10 H/P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CCG CCG CCG CCG CCG CCG	(mm) 118 29 77 85 86 72 70	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							
	SITI 111 111 111 111 111 111 111 111 111	7 7 7 7 7 7 7	EFI' EFI' EFI' EFI'	10 H/P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CCG CCG CCG CCG CCG CCG	(mm) 118 29 77 85 86 72 70	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							
	SITI 111 111 111 111 111 111 111 111 111	7 7 7 7 7 7 7	EFI' EFI' EFI' EFI'	10 H/P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CCG CCG CCG CCG CCG CCG	(mm) 118 29 77 85 86 72 70	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							
	SITI 111 111 111 111 111 111 111 111 111	7 7 7 7 7 7 7	EFI' EFI' EFI' EFI'	10 H/P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CCG CCG CCG CCG CCG CCG	(mm) 118 29 77 85 86 72 70	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							
	SITI 111 111 111 111 111 111 111 111 111	7 7 7 7 7 7 7	EFI' EFI' EFI' EFI'	10 H/P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CCG CCG CCG CCG CCG CCG	(mm) 118 29 77 85 86 72 70	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							
	SITI 111 111 111 111 111 111 111 111 111	7 7 7 7 7 7 7	EFI' EFI' EFI' EFI'	10 H/P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CCG CCG CCG CCG CCG CCG	(mm) 118 29 77 85 86 72 70	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							
	SITI 111 111 111 111 111 111 111 111 111	7 7 7 7 7 7 7	EFI' EFI' EFI' EFI'	10 H/P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		CCG CCG CCG CCG CCG CCG	(mm) 118 29 77 85 86 72 70	I W	INI EIGHT	DIVI	IDUA	L FISH	H DAT/	4	AGE							



Milliken Creek
Site 17: View upstream from centre of site.
(Roll BP6 - Exp 2; CD 2 - Im 79)



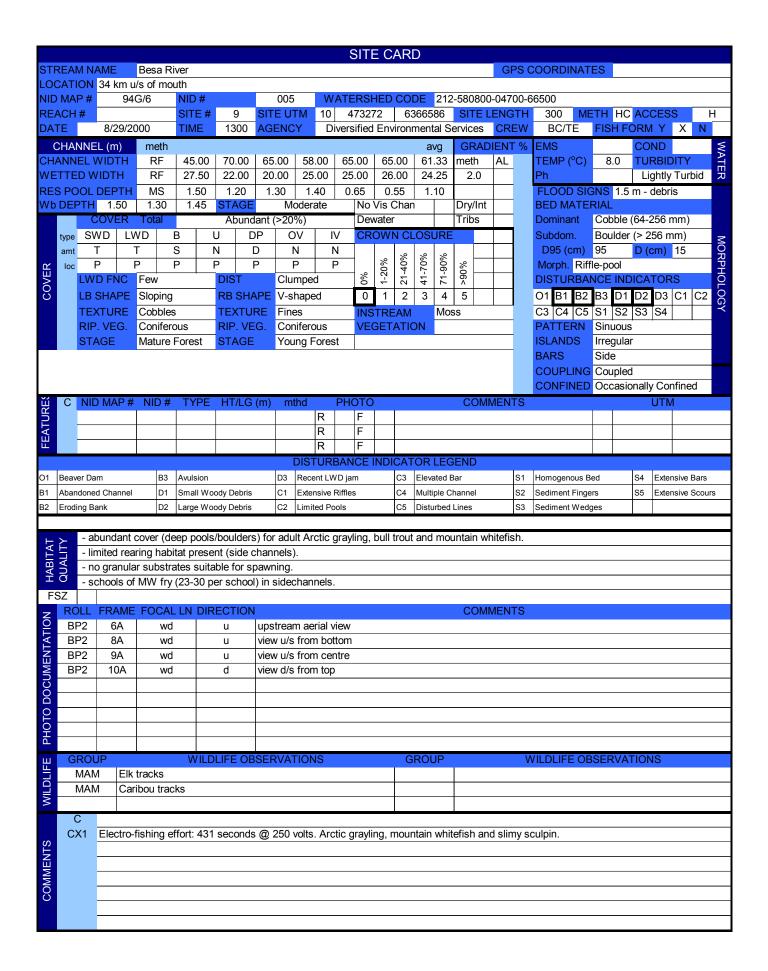
Milliken Creek Site 17: Upstream aerial view. (Roll BP6 - Exp 4; CD 2 - Im 81)

## **APPENDIX VIII**

## **BESA RIVER**

(212-580800-04700-66500)

### Sample Site 9



							FI	SH	COLL	ECTIO	N FOF	RM							
STF	REAM N	IAME	Ве	sa Ri	ver									LA	KE X	STREA	λM	WE	ETLAND
LO	ROJECT ID Besa-Prophet Overview										WATE	RSHE	D CODE	212	2-580800	-04700-6	66500	)	
WA	VATERBODY ID PROJECT ID Be						ILP MAF	)		ILP	#		SITE/L	AKE	CARD A	TTACH	ED	ΧY	N
PR	DJECT	ID	Ве	sa-Pr	rophet Ov	/erview	REACH	#		SIT	E#	9	FISH F	PERM	1IT #	S	C200	00-021	
DA <sup>-</sup>	ГΕ	8	/29/200	00	to 8	3/29/2000	AGENC	Υ	Diversifi	ed Envir	onmental	Servic	es CF	REW	Е	BC/TE		RE-SAN	MPLE
											STRE	M CO	NDITION						
Q	SITE	Ξ#	NID M	AP#	NID#	SITE	UTM		METHO	OD/NO.	TEMP	CON	_	-		COM	MEN <sup>-</sup>	TS	
SITE / METHOD	0		040	10	005	40.47207	0.000000	00		1		CON							
Щ	9		94G	/6	005	10.47327	2.030058	00	EF	1	8		L						
N /																			
Ξ.																			
S																			
	SITE#		D/NO	H/P			AGE	10	TAL NO		N (mm)	MAX	LN (mm)	_	SH ACT		CON	MENTS	5
RY	9		EF/1	1	MW				14		88		184	_	Rearing				
M۹	9		EF/1	1	GR				1		32		332	_	Rearing				
$\mathbb{Z}$	9	E	EF/1	1	CCG	S NS			10	5	52		94	F	Rearing				
S																			
FISH SUMMARY																			
Ш																			
GEAR SPECS															P SPECI				
3PE	C SI	TE#	MD/NC	H/P	DATE	IN TIME	IN DA	TE (	NIT TUC	/IE OUT	NET TY	/PE I	LENGTH		EPTH	MESH :	SIZE	SET	HAB
8																			
EA																			
9																			
							ELE	CTF	ROFISHE	ER SPEC	CIFICATI	ONS							
	C SI	TE#	MD/NC	H/P	TIME	IN TIME C	DUT EI	F SE	EC LE	NGTH	WIDT	H E	NCL V	OLT	FREQ	PLSE	N	//AKE	MDL
		9	EF/1	1	1305	5 1330	)	431		300	24.2	2	0 2	250	60	Fixed		Coffelt	Mk X
m	C																		
90																			
ĬN																			
MENT:																			
OMMENTS																			
COMMENTS																			
COMMENTS								ND	IVIDUA	AL FISI	H DAT	Ą							
		4 140/	NO LV	0 00	DECIES	LENGTH	l WEIGH					Ą	AGE			0	~	<b>AFNITO</b>	
COMMENTS	SITE#	# MD/	NO H/F	P SF	PECIES	LENGTH (mm)		ΗТ	IVIDU <i>A</i> SEX	AL FISI MATU	IR		AGE	ŧ A	GE	С	OMM	MENTS	
		# MD/I		P SF	PECIES	_	WEIGI	ΗТ			JR S			_	GE 3+	C	COMM	MENTS	
	SITE#		/1 1			(mm)	WEIGI	ΗТ			JR S	TR S	AMPLE #	3		C	OMM	MENTS	
	SITE#	EF	/1 1 /1 1		MW	(mm) 174	WEIGI	ΗТ			JR S	TR S	9-1	3	3+	С	OMM	MENTS	
	SITE # 9 9	EF.	/1 1 /1 1 /1 1		MW MW	(mm) 174 184	WEIGI	ΗТ			JR S <sup>2</sup> Sc Sc Sc	TR S	9-1 9-2	3	3+ 3+	С	OMN	MENTS	
	SITE # 9 9 9 9	EF.	/1 1 /1 1 /1 1 /1 1		MW MW MW	(mm) 174 184 96	WEIGI	ΗТ			JR S: Sc. Sc. Sc.	TR S cale cale	9-1 9-2 9-3	3	3+ 3+  +	C	OMM	MENTS	
	SITE # 9 9 9 9 9	EF.	/1 1 /1 1 /1 1 /1 1 /1 1 /1 1		MW MW MW	(mm) 174 184 96 93	WEIGI	ΗТ	SEX		JR S: Sc. Sc. Sc.	TR Scale cale cale cale	9-1 9-2 9-3 9-4	3	3+ 3+  +  +	С	COMM	MENTS	
	SITE # 9 9 9 9 9	EF.	/1 1 /1 /1 /1 /1 /1 /1 /1 /1 /1 /1 /1 /1		MW MW MW MW	(mm) 174 184 96 93 332	WEIGI	ΗТ	SEX		JR S: Sc. Sc. Sc.	TR Scale cale cale cale	9-1 9-2 9-3 9-4	3	3+ 3+  +  +	С	COMIN	MENTS	
	SITE # 9 9 9 9 9 9	EF. EF. EF.	/1 1 /1 /1 /1 /1 /1 /1 /1 /1 /1 /1 /1 /1		MW MW MW MW GR MW	(mm) 174 184 96 93 332 39	WEIGI	ΗТ	SEX		JR S: Sc. Sc. Sc.	TR Scale cale cale cale	9-1 9-2 9-3 9-4	3	3+ 3+  +  +	С	COMM	MENTS	
	SITE # 9 9 9 9 9 9 9 9	EF. EF. EF. EF.	/1 1 // 1 // 1 // 1 // 1 // 1 // 1 //		MW MW MW MW GR MW	(mm) 174 184 96 93 332 39 52	WEIGI	ΗТ	SEX		JR S: Sc. Sc. Sc.	TR Scale cale cale cale	9-1 9-2 9-3 9-4	3	3+ 3+  +  +	C	COMM	MENTS	
	SITE # 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	EF. EF. EF. EF. EF.	/1 1 1 //1 1 //1		MW MW MW MW GR MW MW	(mm) 174 184 96 93 332 39 52 47	WEIGI	ΗТ	SEX		JR S: Sc. Sc. Sc.	TR Scale cale cale cale	9-1 9-2 9-3 9-4	3	3+ 3+  +  +	С	COMM	MENTS	
	SITE # 9 9 9 9 9 9 9 9 9 9	EF. EF. EF. EF. EF. EF.	/1 1 1 //1 1		MW MW MW MW GR MW MW MW	(mm) 174 184 96 93 332 39 52 47 42	WEIGI	ΗТ	SEX		JR S: Sc. Sc. Sc.	TR Scale cale cale cale	9-1 9-2 9-3 9-4	3	3+ 3+  +  +	С	COMN	MENTS	
	SITE #  9  9  9  9  9  9  9  9  9  9	EF. EF. EF. EF. EF. EF. EF.	/1 1 1 //1 1 //1		MW MW MW MW GR MW MW MW MW	(mm) 174 184 96 93 332 39 52 47 42 43	WEIGI	ΗТ	SEX		JR S: Sc. Sc. Sc.	TR Scale cale cale cale	9-1 9-2 9-3 9-4	3	3+ 3+  +  +	С	COMN	MENTS	
	SITE #  9  9  9  9  9  9  9  9  9  9  9  9  9	EF. EF. EF. EF. EF. EF. EF.	/1 1 /		MW MW MW GR MW	(mm) 174 184 96 93 332 39 52 47 42 43 48	WEIGI	ΗТ	SEX		JR S: Sc. Sc. Sc.	TR Scale cale cale cale	9-1 9-2 9-3 9-4	3	3+ 3+  +  +	С	COMN	MENTS	
	SITE #  9  9  9  9  9  9  9  9  9  9  9  9  9	EF. EF. EF. EF. EF. EF. EF. EF.	/1 1 1 //1 1		MW MW MW GR MW	(mm)  174  184  96  93  332  39  52  47  42  43  48  52	WEIGI	ΗТ	SEX		JR S: Sc. Sc. Sc.	TR Scale cale cale cale	9-1 9-2 9-3 9-4	3	3+ 3+  +  +	С	COMM	MENTS	
	SITE #  9  9  9  9  9  9  9  9  9  9  9  9  9	EF. EF. EF. EF. EF. EF. EF. EF.	// 1 1 // 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 // 1 1 // 1 // 1 1 // 1 // 1 1 // 1		MW MW MW GR MW	(mm) 174 184 96 93 332 39 52 47 42 43 48 52 47	WEIGI	ΗТ	SEX		JR S: Sc. Sc. Sc.	TR Scale cale cale cale	9-1 9-2 9-3 9-4	3	3+ 3+  +  +	С	COMM	MENTS	
	SITE #  9  9  9  9  9  9  9  9  9  9  9  9  9	EF. EF. EF. EF. EF. EF. EF. EF. EF.	// 1 1 // 1 // 1 1 // 1 // 1 1 // 1 // 1 1 // 1 // 1 1 // 1		MW MW MW GR MW	(mm)  174  184  96  93  332  39  52  47  42  43  48  52  47  39	WEIGI	ΗТ	SEX		JR S: Sc. Sc. Sc.	TR Scale cale cale cale	9-1 9-2 9-3 9-4	3	3+ 3+  +  +	C	COMM	MENTS	
	SITE #  9  9  9  9  9  9  9  9  9  9  9  9  9	EF.	// 1 1 // 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 // 1 1 // 1 // 1 1 // 1 // 1 1 // 1 /		MW M	(mm)  174  184  96  93  332  39  52  47  42  43  48  52  47  39  38	WEIGI	ΗТ	SEX		JR S: Sc. Sc. Sc.	TR Scale cale cale cale	9-1 9-2 9-3 9-4	3	3+ 3+  +  +	C	COMM	MENTS	
	SITE #  9  9  9  9  9  9  9  9  9  9  9  9  9	EF.	// 1 1 // 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 // 1 1 // 1 // 1 1 // 1 // 1 1 // 1 // 1 1 // 1		MW M	(mm)  174  184  96  93  332  39  52  47  42  43  48  52  47  39  38	WEIGI	ΗТ	SEX		JR S: Sc. Sc. Sc.	TR Scale cale cale cale	9-1 9-2 9-3 9-4	3	3+ 3+  +  +	C	COMM	MENTS	
	SITE #  9  9  9  9  9  9  9  9  9  9  9  9  9	EF.	// 1 1 // 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 // 1 1 // 1 // 1 1 // 1 // 1 1 // 1 // 1 1 // 1		MW M	(mm)  174  184  96  93  332  39  52  47  42  43  48  52  47  39  38  94  62	WEIGI	ΗТ	SEX		JR S: Sc. Sc. Sc.	TR Scale cale cale cale	9-1 9-2 9-3 9-4	3	3+ 3+  +  +	C	COMM	MENTS	
	SITE #  9  9  9  9  9  9  9  9  9  9  9  9  9	EF.	//		MW M	(mm)  174  184  96  93  332  39  52  47  42  43  48  52  47  39  38  94  62  52	WEIGI	ΗТ	SEX		JR S: Sc. Sc. Sc.	TR Scale cale cale cale	9-1 9-2 9-3 9-4	3	3+ 3+  +  +	C	COMM	MENTS	
	SITE #  9  9  9  9  9  9  9  9  9  9  9  9  9	EF.	// 1 1 // 1 // 1 // 1 1 // 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 // 1 1 /		MW M	(mm)  174  184  96  93  332  39  52  47  42  43  48  52  47  39  38  94  62  52  67	WEIGI	ΗТ	SEX		JR S: Sc. Sc. Sc.	TR Scale cale cale cale	9-1 9-2 9-3 9-4	3	3+ 3+  +  +	C	COMM	MENTS	
	SITE #  9  9  9  9  9  9  9  9  9  9  9  9  9	EF.	//		MW M	(mm)  174  184  96  93  332  39  52  47  42  43  48  52  47  39  38  94  62  52  67  65  59	WEIGI	ΗТ	SEX		JR S: Sc. Sc. Sc.	TR Scale cale cale cale	9-1 9-2 9-3 9-4	3	3+ 3+  +  +	C	COMM	MENTS	
	SITE #  9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	EF.	/1 1 1 //1 1 /		MW M	(mm)  174  184  96  93  332  39  52  47  42  43  48  52  47  39  38  94  62  52  67  65  59  68	WEIGI	ΗТ	SEX		JR S: Sc. Sc. Sc.	TR Scale cale cale cale	9-1 9-2 9-3 9-4	3	3+ 3+  +  +	C	COMM	MENTS	
	SITE #  9  9  9  9  9  9  9  9  9  9  9  9  9	EF.	//		MW M	(mm)  174  184  96  93  332  39  52  47  42  43  48  52  47  39  38  94  62  52  67  65  59	WEIGI	ΗТ	SEX		JR S: Sc. Sc. Sc.	TR Scale cale cale cale	9-1 9-2 9-3 9-4	3	3+ 3+  +  +	C	COMM	MENTS	



Besa River
Site 9: View downstream from top of site.
(Roll BP2 - Exp 10A; CD 1- Im 38)



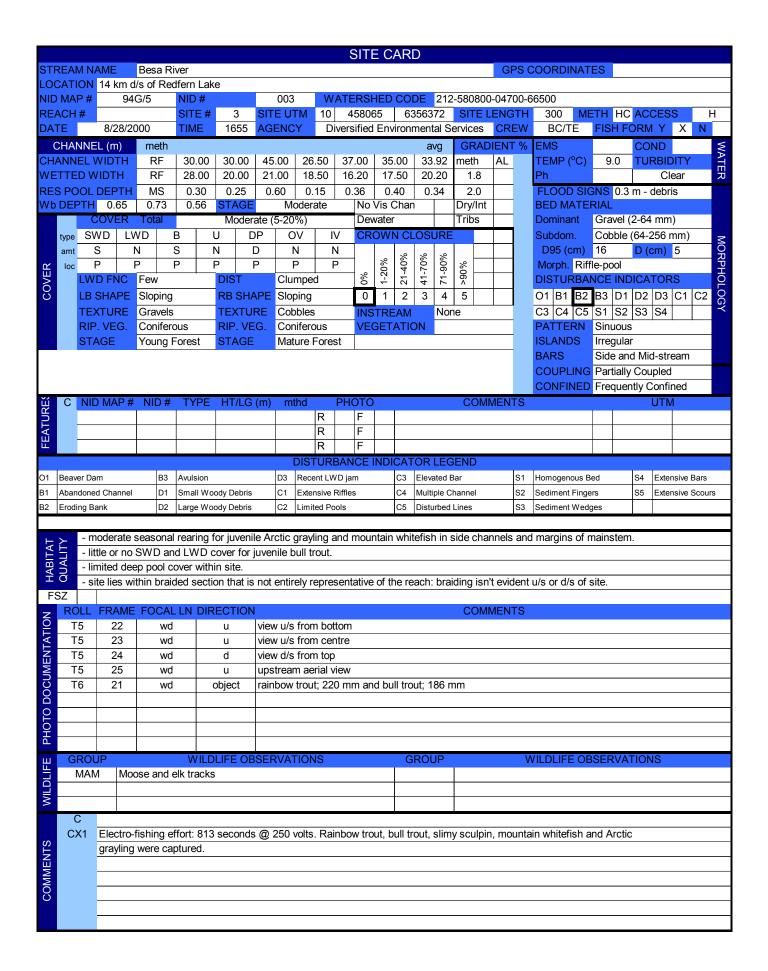
Besa River Site 9: Upstream aerial view. (Roll BP2 - Exp 6A; CD 1- Im 39)

# APPENDIX IX

#### **BESA RIVER**

(212-580800-04700-66500)

# Sample Site 3



								F	ISH	COLL	ECTIO	N FOR	RM							
STF	EAN	MAN N	1E	Bes	a Riv	/er									LAKE	Х	STREA	М	WE	ETLAND
LOC	ATI	ON		14 k	m d/	s of Red	fern Lake					WATE	RSHE	D CODE	212-5	80800	-04700-6	6500		
WA <sup>°</sup>	TER	BODY	'ID					ILP MA	Р		ILP	#		SITE/LA	AKE C	ARD A	TTACHE	D	XY	N
PRO	)JE(	CT ID		Bes	a-Pro	ophet Ov	erview	REACH	l #		SIT	E#	3	FISH P	ERMIT	- #	S	C200	0-021	
DAT	Έ		8/28	/2000	)	to 8	/28/2000	AGENO	Y	Diversifi	ed Enviro	nmental	Service	es CR	EW	Е	BC/TE		RE-SAN	MPLE
												STREA	M COI	NDITION						
Ö	S	ITE#	NIE	O MA	P#	NID#	SITE	UTM		METH	OD/NO.				-		COMN	1ENT	S	
SITE / METHOD				040/	_	000	40.45000	- COECO:	70		1	TEMP	CON							
Ш		3	,	94G/	5	003	10.45806	5.63563	/2	EF	1	9		С						
<b>N</b>																				
끧																				
S																				
	SIT	E#	MTD/I	NO	H/P	SPECIE	ES STAGE	AGE	TO	TAL NO	MIN LI	۱ (mm)	MAX	LN (mm)	FISH	ACT		COM	MENTS	3
≿	3	3	EF/	1	1	RB	NS			7	5	9		220	Re	aring				
SUMMARY	3	3	EF/	1	1	BT	NS			2	18	36		201	Re	aring				
$\leq$	3	3	EF/	1	1	CCG	NS			11	4	7		90	Re	aring				
SU	3	3	EF/	1	1	MW	NS			2	4	9		50		aring				
FISH	3	3	EF/	1	1	GR	NS			1		7		57		aring				
딾																				
ږږ														NET /	TRAD	SPECI	FICATIO	NS.		
GEAR SPECS	С	SITE	# MD	/NO	H/D	DATE	IN TIME	INI IDA	TE (	איד דוו	ME OUT	NET TY	/DE L	ENGTH			MESH S		SET	HAB
SP	C	SIIE	# IVID	//NO	H/F	DATE	IIN   IIIVIE	IIN DA	IEC	JOT TIN	IE OUT	NET I	IPE L	ENGIH	DE	FIR	IVIESTI	DIZE	SEI	ПАБ
A A	-																			
SE/	-																			
J									0			IEIOAEI	0110							
										ROFISHE										
	С		# MD			TIME I			F SE		NGTH	WIDT				FREQ	PLSE		AKE	MDL
		3	E	F/1	1	1700	1745	5	813		300	20.2	2	0 2	250	60	Fixed	С	offelt	Mk X
ည	С																			
IME																				
COMMENTS																				
0																				
									ND	IVIDUA	AL FISH	1 DAT	Ą							
С	CIT	E#M	ID/NIO	LIVD	en.	ECIES	LENGTH	WEIG	HT	SEX	MATL	ID.		AGE			C	<b>2040</b> 4	ENTS	
	311	⊏# IV	טאועו	III/F	SF	ECIES	(mm)	(gms	s)	SEA	IVIATO	' Sī	TR S	AMPLE#	AGI	≣	C	JIVIIVI	EIVIO	
	3	3	EF/1	1		RB	220					Sc	ale	3-1	2+					
	3	3	EF/1	1		BT	186					Sc	ale	3-2	3+					
	3		EF/1	1		ВТ	201						ale	3-3	3+					
	3		EF/1	1		RB	125						ale	3-4	1+					
	3		EF/1	1		RB	118						ale	3-5	1+					
	3		EF/1	1		RB	122						ale	3-6	1+					
	-3		EF/1	1		RB	71						ale	3-7	0+	_				
	3		EF/1	1		RB	74						ale	3-8	0+					
	3		EF/1	1		RB	59						ale	3-9	0+					
	3		EF/1	1		GR	57						ale	3-10	0+					
																_				
	3		EF/1	1		MW	49						ale	3-11	0+					
	3		EF/1	1		MW	50					Sc	ale	3-12	0+	_				
	3		EF/1	1		CCG	73									_				
	3		EF/1	1		CCG	90													
	3		EF/1	1		CCG	68													
	3		EF/1	1		CCG	61													
	3		EF/1	1		CCG	71													
	3		EF/1	1		CCG	86													
	3	3	EF/1	1	(	CCG	82													
	3	3	EF/1	1	(	CCG	53													
				1 4	_															
	3	3	EF/1	1	(	CCG	76													
	3		EF/1 EF/1	1		CCG	76 47													



Besa River
Site 3: View upstream from centre of site.
(Roll T5 - Exp 23; CD 1- Im 13)



Besa River Site 3: View downstream from top of site. (Roll T5 - Exp 24; CD 1- Im 14)



Besa River Site 3: Upstream aerial view. (Roll T5 - Exp 25; CD 1- Im 15)



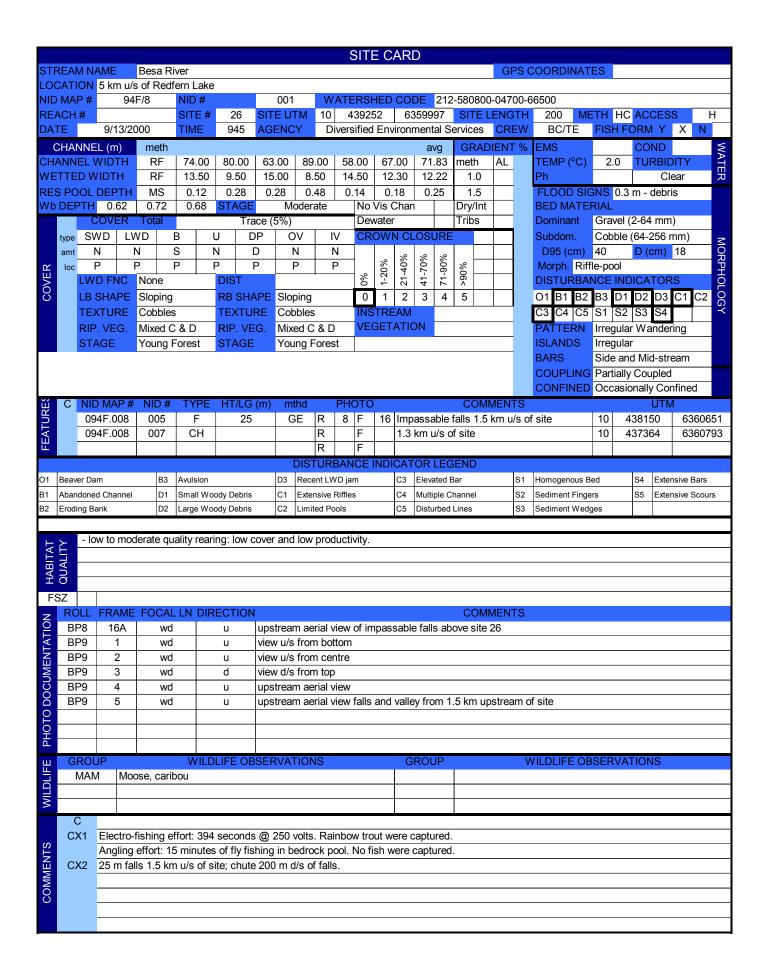
Besa River Site 3: Rainbow trout; 220 mm and bull trout 186 mm. (Roll T6 - Exp 21; CD 1- Im 33)

### **APPENDIX X**

### **BESA RIVER**

(212-580800-04700-66500)

# Sample Site 26



								F	ISH	COLL	ECTIO	N FOF	RM								
STF	REA	M NA	ME.		a Riv											LAKE		STREA			TLAND
	CATI			5 kr	n u/s	of Redfe	ern Lake						RSHE					0-04700-6			
		BOD						ILP MA			ILP							TTACH		ΧY	N
		CT ID		_		ophet Ov		REACH			SIT		26		_	ERMIT	_			00-021	
DAT	ΓΕ		9/1	3/200	0	to 9	9/13/2000	AGENO	CY	Diversifi	ed Enviro	onmental	Service	ces	CRE	EW	I	BC/TE		RE-SAN	/IPLE
)	ď	ITE#	ŧ N	IID MA	ъ#	NID#	SITE	UTM		METHO	טוט/טוס	STREA	AM CC	NDIT	ION			COMI	MENI	rs	
SITE / METHOD	J	11 - 7	, I,	יווט ועוד	Λι <i>π</i>	IVID#	OITE	- O 1 W		I WETTI	JD/NO.	TEMP	CON	N TU	JRB			COIVII	VILIV		
点		26		94F/	8	001	10.43925	2.63599	97	EF	1	2.0			С						
ME		26		94F/	8	001	10.43925	2.63599	97	AG	1	2.0			С						
Έ/																					
SII																					
	SIT		MTD		H/P			AGE	TO	TAL NO	MIN LI		MAX	(LN (n	nm)		ACT		CON	MENTS	3
RY	2		EF		1	RB	NS			1	1	27		127		Rea	aring				
MA	2	6	AG	5/1	1	NFC	;			0											
N																					
S																		1			
FISH SUMMARY									-									1			
ш.																		1			
U)									_					, NE	т / т	DAD	CDEC	IFICATION	JNG-		
GEAR SPECS	С	CITE	= # NA	ID/NO	LI/D	DATE	IN TIME	IN DA	TE (	OUT TIN	1E OUT	NET TY	/DE	LENG			SPEC PTH	MESH		SET	HAB
SP	U	SITE	_ <del>#</del>   IVI	טוועם	I I/F	DAIL	IIN I IIVIL	IIN DA	11 -	JU1 1110	IL OUT	NEII	IFE	LLING	111	DE	FIII	IVILOIT	SIZL	SET	TIAD
AR																					
GE																					
								ELE	CTF	ROFISHE	R SPEC	IFICATI	ONS								
	С	SITE	E# M	ID/NO	H/P	TIME	IN TIME (		F SE		NGTH	WIDT		ENCL	VO	LT I	FREQ	PLSE	N	1AKE	MDL
		26	6 E	EF/1	1	0949	101	0	394		200	12.2	2	0	25	50	60	Fixed	C	offelt	Mk X
S	С		·										·								
COMMENTS																					
/IME																					
NO.																					
<u> </u>									MID	IV/IDLIA	I FIOI	LDAT	Λ								
		_					LENOTH			IVIDUA	L FISI	1 DAT	Α	ΛΟΙ							
С	SIT	E#	MD/N	O H/P	SP	ECIES	LENGTH (mm)	WEIG (gms		SEX	MATU	IR	TR S	AGI SAMPI		AGE	_	С	OMN	IENTS	
	2	6	EF/1	1		RB	127	(9111	٠,				ale	26-		1+	-				
		_		+:		TO	121					- 00	Jaic								
																	+				
										1							1				



Besa River Site 26: View upstream from centre of site. (Roll BP9 - Exp 2; CD 2 - Im 128)



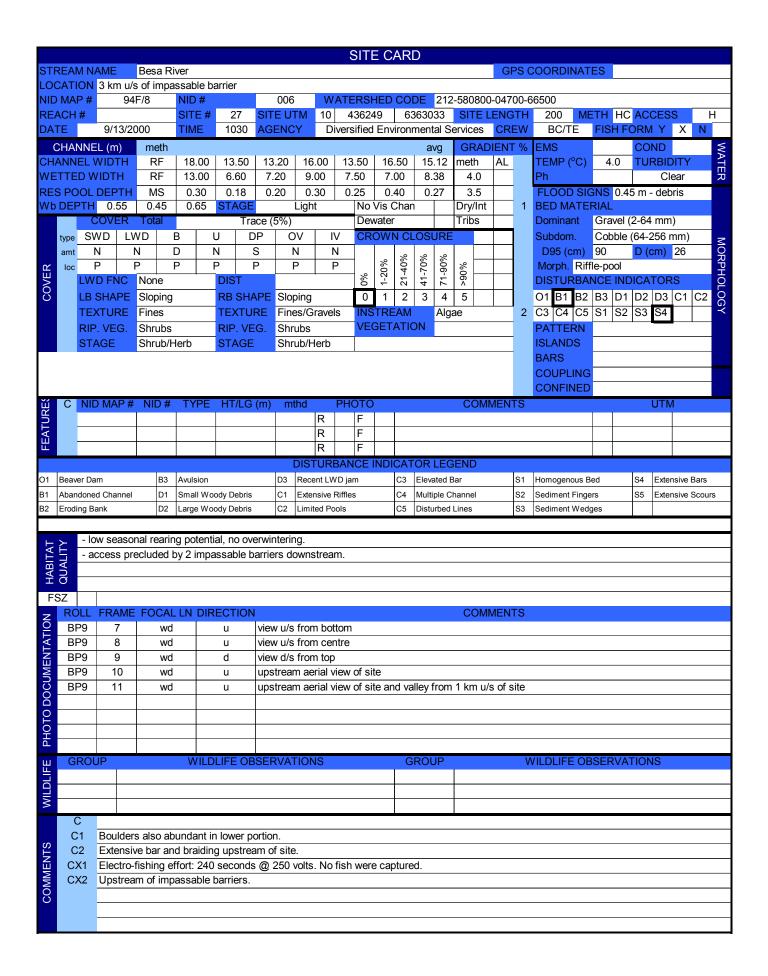
Besa River Site 26: Upstream aerial view. (Roll BP9 - Exp 4; CD 2 - Im 130)

### **APPENDIX XI**

### **BESA RIVER**

(212-580800-04700-66500)

# Sample Site 27



									FI	SH	COLL	ECTIO	N FOF	RM								
STF	REA	M NA	ME	Ве	sa Ri	ver											LAKE		STRE			'ETLAND
	CATI				m u/s	s of impa	ssable l						WATE	RSH								
		BOD							ILP MAI			ILP							TTAC		ΧY	N
		CT IE				ophet O			REACH			SIT		27		ISH PE		_		SC20	00-021	
DAT	Έ		9	/13/200	00	to 9	9/13/20	00	AGENC	Υ	Diversifi	ed Envir	onmental	Servi	ices	CRI	EW	E	BC/TE		RE-SA	MPLE
	9	ITE#	#	NID M	ΔD#	NID#		SITE	LITM		METH	OD/NO.	STREA	AM C	ONDI	TION			CON	имем	TS	
SITE / METHOD	J	111 - 7	"	ואו טוויו	Λι π	INID #		SIIL	OTIVI		IVILITI	JD/NO.	TEMP	CO	N 1	TURB			COI	VIIVILIN	10	
Ĕ.		27		94F	/8	006	10.4	36249	9.636303	33	EF	1	4.0			С						
ME																						
Ę/																						
SIT																						
		E#		D/NO	H/P			ΓAGE	AGE	TO	TAL NO	MIN LI	N (mm)	MAX	X LN	(mm)	FISH	ACT		COI	MMENT	S
R	2	7	E	EF/1	1	NFC	;				0											
FISH SUMMARY																						
$\overline{\mathbb{Z}}$																						
S																						
<u>R</u>																						
щ																						
U,																· / -	- D A B	0050	FIGAT	10110		
GEAR SPECS	0	OIT	- 4	NAD (NA		DATE	INI I -	TIN ACT	INI IDA	TE 6	NIT TIN	45 OLIT	NET T	/DE.L					IFICAT		OFT	LIAD
SP	С	SIII	<b>上</b> #	MD/NC	JH/P	DATE	IIN	TIME	IN DA	IE (	NIT TUC	IE OUT	NET T	YPE	LEN	GTH	DE	PTH	MESH	SIZE	SET	HAB
AR																						
GE,																						
									ELE	CTE	ROFISHE	R SPEC	IFICATI	ONS								
	С	SITI	F #	MD/NC	)H/P	TIME	IN TI	IME O		F SE		NGTH	WIDT		ENC	L VC	) T I	FREQ	PLSI	=	MAKE	MDL
					_										0							Mk X
		27	/	EF/1	1	1035	)	1052	<u> </u>	240		200	8.4		- 0	- 1 2:	ו טכ	บบ	l Fixed	יו ב	Jonneil	I IVIK A
(2)	С	27	1	EF/1	1	1035	)	1052	2	240		200	8.4			2:	50	60	Fixed	ן נ	Coffelt	IVIK
NTS	С	27	/	EF/1	1	1038	0	1052	2	240		200	8.4		0	2:	50	60	Fixed	a   (	опец	IVIK
MENTS	С	27	1	EF/1	1	1038	0	1052	<u>'</u>	240		200	8.4				50	60	Fixed	a   (	Correit	IVIK
OMMENTS	С	27	7	EF/1	1	1038	D	1052	2	240		200	8.4			2	50	60	Fixed	a   (	Correit	IVIK X
COMMENTS	С	27	7	EF/1	1	1038	0	1052			\						50	60	Fixed	a   (	Опец	IVIK X
COMMENTS	С	27	7	EF/1	1	1038	0	1052		ND	IVIDU			A			50	60	Fixed		Оптен	IVIK A
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK
COMMENTS				NO H/I		PECIES		<b>STH</b>		ND HT	\		H DAT		A		AGE				MENTS	IVIK
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK A
							LENC	<b>STH</b>	WEIG	ND HT	IVIDU	AL FISI	H DAT		A	GE						IVIK



Besa River
Site 27: View upstream from bottom of site.
(Roll BP9 - Exp 7; CD 2 - Im 133)

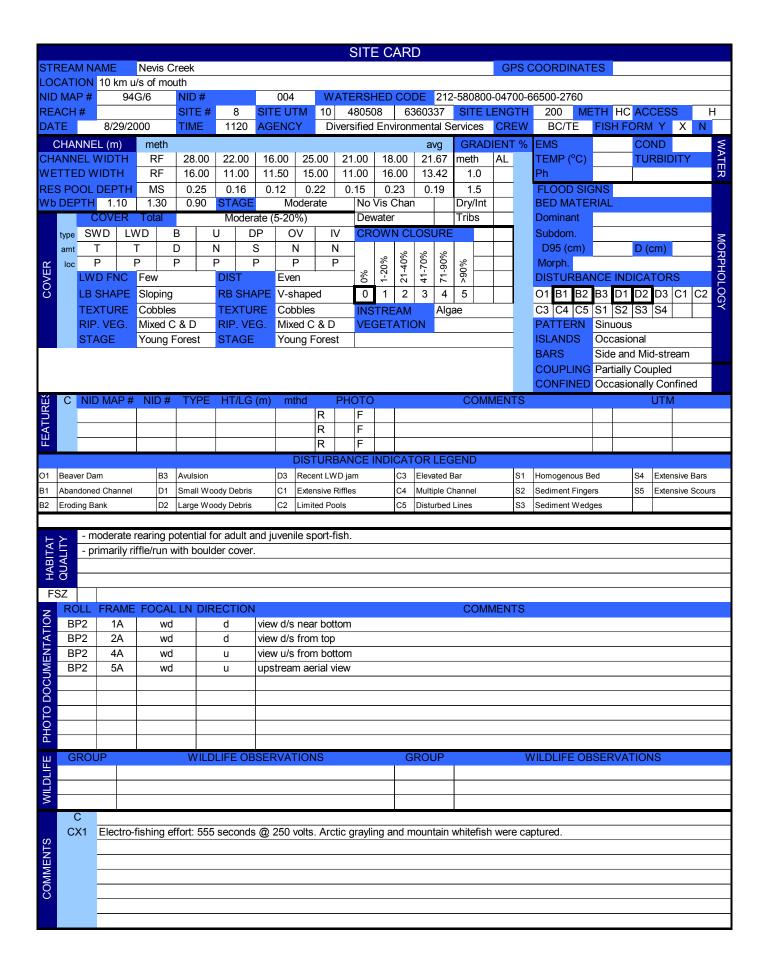


Besa River Site 27: Upstream aerial view. (Roll BP9 - Exp 10; CD 2 - Im 136)

### **APPENDIX XII**

# **NEVIS CREEK** (212-580800-04700-66500-2760)

# Sample Site 8



									FI	ΙЗΠ	COLL	ECTIO	N FOF	₹IVI								
		M NAI	ME		is Cı														STRE			ETLAND
LOC				10 k	km u	s of mou	ıth							RSHE								
		BOD							ILP MAI			ILP					CAR	TA C			ΧY	N
		CT ID	)	Bes	a Pr	ophet Ov	erviev		REACH			SIT	E#	8	FISH	PERI	MIT #			SC20	00-021	
DAT	Ε		8/2	29/2000	0	to 8	3/29/2	2000	AGENC	Ϋ́	Diversifi	ed Enviro	onmental	Service	es C	REW	1	В	C/TE		RE-SAM	//PLE
	0	ITE #	, ,	UD 144	D.#	NUD #		OITE			NACTUA	20/00	STREA	AM CON	NDITION	1			001	18 4E 8 1	TO.	
00	S	ITE#	F N	IID MA	\P#	NID#		SITE	UIM		METH	OD/NO.	TEMP	CON	TURI	3			CON	IMEN <sup>®</sup>	18	
SITE / METHOD		8		94G/	6	004	10	480508	3.636033	37	EF	1	5.5	0011	С	_						
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1																						
Ë																						
S																						
	SIT	F#	MTD	/NIO	H/P	SPECI	EQ Q	STAGE	AGE	TO	TAL NO	MIN LI	VI (mm)	MAY	LN (mm	) F	ISH AC	T		COI	/MENTS	2
	8	_	EF		1	GR		Adult	AGL	10	4		92		336		Rearing	_		COI	/IIVILINI C	,
R.	8		EF		1	MW		Adult			2		9 <u>2</u> 19		339		Rearing	_				
M	C	,		7.1	'	IVIVV		Addit				3	19	<b>-</b>	559		rcann	y				
N.							-															
٦ ع																$\perp$		_				
FISH SUMMARY										-												
ш										-						$\perp$		_				
U)															NET	/ /	. D. O.D.	-01-	10 A T	0110		
GEAR SPECS	<u> </u>	CITE	- <i>4</i>   s -	ID/NG	LL/D	DATE	INI	TIME	IN IDA	TE 6	) IT! T'	AE CLIZ	NET 7	/DEL :			AP SPE				CET	LIAD
SP	С	SILE	#   M	ID/NO	H/P	DATE	IN	TIME	IN DA	TE (	און ווטכ	ME OUT	NET T	YPE L	ENGTH		DEPTH	1	MESH	SIZE	SET	HAB
A'A	-																					
SE/	-																					
J										OTE	OFIGUE	D ODEC	IEIO A EI	ONO								
ſ	0	CITE	- 4   14	ID/NO	LL/D	TIME	INI I-	TIME O		F SE		NGTH	IFICATI WIDT		NOL	/OLT	FRE	<u> </u>	PLSE	-	40145	MDL
	С	8		EF/1	п/Р 1	1125		1150		555		200	13.4			200	60				MAKE Coffelt	Mk X
	<u></u>				'	0		1150	<u> </u>	555		200	13.4	r	U	200	00	,	Fixed	(	Jonen	IVIICA
STI	С				'	20		1100	<u> </u>	333		200	13.4			200	00	,	Fixeo		Jonest	IVIIC Z
4ENTS	С				•		<u> </u>	1100		333		200	13.4			200		,	Fixed		Jonest	- MIN / X
MMENTS	С							1130		333		200	13.4			200			FIXEO		Johen	
COMMENTS	С							1130	<u>'</u>	333		200	13.4			200			FIXEO		Jones	
COMMENTS	C							1100								200			FIXEO		Jonet	
	-									ND	IVIDU <i>F</i>	AL FISI	H DAT			200						
	-	E# N		O H/P		PECIES	LEN	NGTH	WEIG	ND HT			H DAT	A	AGE						MENTS	
	SIT		MD/N	O H/P		PECIES	LEN (n	NGTH mm)		ND HT	IVIDU <i>F</i> SEX	AL FISI	H DATA	A	AGE AMPLE	#	\GE					
	SIT	3	MD/N	O H/P		PECIES	LEN (n	NGTH mm)	WEIG	ND HT	VIDUA SEX M	AL FISI	H DATA	A  TR S/	AGE AMPLE 8-1	#	AGE 5+					
	SIT	3	MD/N	O H/P		PECIES GR GR	LEN (n 3 3 3	NGTH nmn) 328 329	WEIG	ND HT	SEX M F	AL FISI	H DATA	A TR S	AGE AMPLE	#   4	AGE 5+ 4+					
	SIT	3 3 3	MD/N EF/1 EF/1	O H/P 1 1 1		PECIES	LEN (n 3 3 3 3 3	NGTH mm)	WEIG	ND HT	VIDUA SEX M	AL FISI	H DAT	A  TR S/ cale cale	AGE AMPLE 8-1 8-2	#	AGE 5+					
	SITI 8 8	3 3 3 3	MD/N EF/1 EF/1 EF/1	O H/P 1 1 1 1	SP	PECIES GR GR GR GR GR	LEN (n 3 3 3 2 2	NGTH nm) 828 829 836 292	WEIG	ND HT	SEX M F F	AL FISI	H DAT	A Sale cale cale cale cale	AGE AMPLE 8-1 8-2 8-3 8-4	#	AGE 5+ 4+ 5+					
	SITI 8	3 3 3 3 3	MD/N EF/1 EF/1	O H/P 1 1 1 1 1	SP	PECIES GR GR GR	LEN (nm 33 33 33 22 22 22	NGTH   mm)   328   329   336	WEIG	ND HT	SEX M F F	AL FISI	H DAT	A TR S/cale cale cale	AGE AMPLE 8-1 8-2 8-3	#	AGE 5+ 4+ 5+ 4+					
	SITTI 88 88 88 88	3 3 3 3 3	MD/N- EF/1 EF/1 EF/1 EF/1	O H/P 1 1 1 1 1	SP	GR GR GR GR GR MW	LEN (nm 33 33 33 22 22 22	NGTH nmm) 328 329 336 292 219	WEIG	ND HT	SEX M F F	AL FISI	H DAT	A S/cale cale cale cale cale cale	AGE AMPLE 8-1 8-2 8-3 8-4 8-5	#	AGE 5+ 4+ 3+					
	SITTI 88 88 88 88	3 3 3 3 3	MD/N- EF/1 EF/1 EF/1 EF/1	O H/P 1 1 1 1 1	SP	GR GR GR GR GR MW	LEN (nm 33 33 33 22 22 22	NGTH nmm) 328 329 336 292 219	WEIG	ND HT	SEX M F F	AL FISI	H DAT	A S/cale cale cale cale cale cale	AGE AMPLE 8-1 8-2 8-3 8-4 8-5	#	AGE 5+ 4+ 3+					
	SITTI 88 88 88 88	3 3 3 3 3	MD/N- EF/1 EF/1 EF/1 EF/1	O H/P 1 1 1 1 1	SP	GR GR GR GR GR MW	LEN (nm 33 33 33 22 22 22	NGTH nmm) 328 329 336 292 219	WEIG	ND HT	SEX M F F	AL FISI	H DAT	A S/cale cale cale cale cale cale	AGE AMPLE 8-1 8-2 8-3 8-4 8-5	#	AGE 5+ 4+ 3+					
	SITTI 88 88 88 88	3 3 3 3 3	MD/N- EF/1 EF/1 EF/1 EF/1	O H/P 1 1 1 1 1	SP	GR GR GR GR GR MW	LEN (nm 33 33 33 22 22 22	NGTH nmm) 328 329 336 292 219	WEIG	ND HT	SEX M F F	AL FISI	H DAT	A S/cale cale cale cale cale cale	AGE AMPLE 8-1 8-2 8-3 8-4 8-5	#	AGE 5+ 4+ 3+					
	SITTI 88 88 88 88	3 3 3 3 3	MD/N- EF/1 EF/1 EF/1 EF/1	O H/P 1 1 1 1 1	SP	GR GR GR GR GR MW	LEN (nm 33 33 33 22 22 22	NGTH nmm) 328 329 336 292 219	WEIG	ND HT	SEX M F F	AL FISI	H DAT	A S/cale cale cale cale cale cale	AGE AMPLE 8-1 8-2 8-3 8-4 8-5	#	AGE 5+ 4+ 3+					
	SITTI 88 88 88 88	3 3 3 3 3	MD/N- EF/1 EF/1 EF/1 EF/1	O H/P 1 1 1 1 1	SP	GR GR GR GR GR MW	LEN (nm 33 33 33 22 22 22	NGTH nmm) 328 329 336 292 219	WEIG	ND HT	SEX M F F	AL FISI	H DAT	A S/cale cale cale cale cale cale	AGE AMPLE 8-1 8-2 8-3 8-4 8-5	#	AGE 5+ 4+ 3+					
	SITTI 88 88 88 88	3 3 3 3 3	MD/N- EF/1 EF/1 EF/1 EF/1	O H/P 1 1 1 1 1	SP	GR GR GR GR GR MW	LEN (nm 33 33 33 22 22 22	NGTH nmm) 328 329 336 292 219	WEIG	ND HT	SEX M F F	AL FISI	H DAT	A S/cale cale cale cale cale cale	AGE AMPLE 8-1 8-2 8-3 8-4 8-5	#	AGE 5+ 4+ 3+					
	SITTI 88 88 88 88	3 3 3 3 3	MD/N- EF/1 EF/1 EF/1 EF/1	O H/P 1 1 1 1 1	SP	GR GR GR GR GR MW	LEN (nm 33 33 33 22 22 22	NGTH nmm) 328 329 336 292 219	WEIG	ND HT	SEX M F F	AL FISI	H DAT	A S/cale cale cale cale cale cale	AGE AMPLE 8-1 8-2 8-3 8-4 8-5	#	AGE 5+ 4+ 3+					
	SITTI 88 88 88 88	3 3 3 3 3	MD/N- EF/1 EF/1 EF/1 EF/1	O H/P 1 1 1 1 1	SP	GR GR GR GR GR MW	LEN (nm 33 33 33 22 22 22	NGTH nmm) 328 329 336 292 219	WEIG	ND HT	SEX M F F	AL FISI	H DAT	A S/cale cale cale cale cale cale	AGE AMPLE 8-1 8-2 8-3 8-4 8-5	#	AGE 5+ 4+ 3+					
	SITTI 88 88 88 88	3 3 3 3 3	MD/N- EF/1 EF/1 EF/1 EF/1	O H/P 1 1 1 1 1	SP	GR GR GR GR GR MW	LEN (nm 33 33 33 22 22 22	NGTH nmm) 328 329 336 292 219	WEIG	ND HT	SEX M F F	AL FISI	H DAT	A S/cale cale cale cale cale cale	AGE AMPLE 8-1 8-2 8-3 8-4 8-5	#	AGE 5+ 4+ 3+					
	SITTI 88 88 88 88	3 3 3 3 3	MD/N- EF/1 EF/1 EF/1 EF/1	O H/P 1 1 1 1 1	SP	GR GR GR GR GR MW	LEN (nm 33 33 33 22 22 22	NGTH nmm) 328 329 336 292 219	WEIG	ND HT	SEX M F F	AL FISI	H DAT	A S/cale cale cale cale cale cale	AGE AMPLE 8-1 8-2 8-3 8-4 8-5	#	AGE 5+ 4+ 3+					
	SITTI 88 88 88 88	3 3 3 3 3	MD/N- EF/1 EF/1 EF/1 EF/1	O H/P 1 1 1 1 1	SP	GR GR GR GR GR MW	LEN (nm 33 33 33 22 22 22	NGTH nmm) 328 329 336 292 219	WEIG	ND HT	SEX M F F	AL FISI	H DAT	A S/cale cale cale cale cale cale	AGE AMPLE 8-1 8-2 8-3 8-4 8-5	#	AGE 5+ 4+ 3+					
	SITTI 88 88 88 88	3 3 3 3 3	MD/N- EF/1 EF/1 EF/1 EF/1	O H/P 1 1 1 1 1	SP	GR GR GR GR GR MW	LEN (nm 33 33 33 22 22 22	NGTH nmm) 328 329 336 292 219	WEIG	ND HT	SEX M F F	AL FISI	H DAT	A S/cale cale cale cale cale cale	AGE AMPLE 8-1 8-2 8-3 8-4 8-5	#	AGE 5+ 4+ 3+					
	SITTI 88 88 88 88	3 3 3 3 3	MD/N- EF/1 EF/1 EF/1 EF/1	O H/P 1 1 1 1 1	SP	GR GR GR GR GR MW	LEN (nm 33 33 33 22 22 22	NGTH nmm) 328 329 336 292 219	WEIG	ND HT	SEX M F F	AL FISI	H DAT	A S/cale cale cale cale cale cale	AGE AMPLE 8-1 8-2 8-3 8-4 8-5	#	AGE 5+ 4+ 3+					
	SITT 88 88 88 88 88 88	3 3 3 3 3	MD/N- EF/1 EF/1 EF/1 EF/1	O H/P 1 1 1 1 1	SP	GR GR GR GR GR MW	LEN (nm 33 33 33 22 22 22	NGTH nmm) 328 329 336 292 219	WEIG	ND HT	SEX M F F	AL FISI	H DAT	A S/cale cale cale cale cale cale	AGE AMPLE 8-1 8-2 8-3 8-4 8-5	#	AGE 5+ 4+ 3+					



Nevis Creek
Site 8: View downstream near bottom of site.
(Roll BP2 - Exp 1A; CD 1 - Im 31)



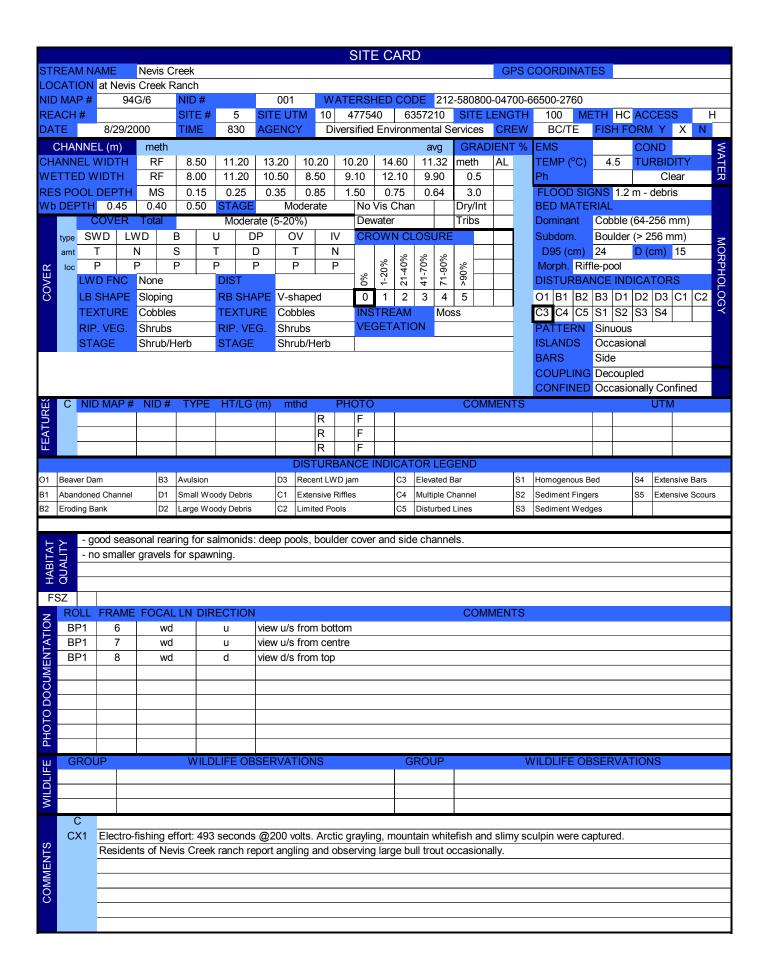
Nevis Creek Site 8: Upstream aerial view. (Roll BP2 - Exp 5A; CD 1 - Im 35)

# **APPENDIX XIII**

### **NEVIS CREEK**

(212 - 580800 - 04700 - 66500 - 2760)

# Sample Site 5



								FI	SH	COLL	ECTIO	N FOR	RM								
STF	REAN	M NAN	ИΕ	Nev	is Cı	reek									L/	٩KE	χS	STREAM	Л	WET	LAND
	CATI			at N	levis	Creek R	anch						RSHI	ED COD							
		BOD	Y ID					ILP MAI			ILP						D AT	TACHE			N
		CT ID				ophet Ov		REACH			SIT		5			MIT #			2000-02		
DAT	ΓΕ		8/29	/2000	)	to 8	3/29/2000	AGENC	Υ	Diversifi	ed Enviro	onmental	Servi	ices (	CREV	V	BO	C/TE	RE-S	SAME	PLE
	S	ITE#	NIL	O MA	P#	NID#	SITE	UTM		METH	סח/מס	STREA	AM CO	OITIDNC	N			COMM	FNTS		
SITE / METHOD	)	//	' ' '	3 1117		1415 //	0112	<b>O</b> 1 111		10121111	<i>3</i> B/110.	TEMP	CO	N TUR	RB			00111111	2.11.0		
島		5	(	94G/	6	001	10.47754	0.635721	10	EF	1	4.5		С							
ME																					
E.																					
S																					
	SIT		MTD/		H/P			AGE	TO	TAL NO	MIN LI	. ,	MAX	X LN (mn		ISH A		(	COMMEN	NTS	
≾	5		EF/		1	GR	NS			4		06		350		Rearin					
MAI	5	5	EF/	1	1	MW	NS			1	30	03		303		Rearin	_				
JM	5	5	EF/	1	1	CCG	NS			2	7	7		157		Rearin	ıg				
FISH SUMMARY																					
SH																					
Ш																					
GEAR SPECS																		ICATIO			
SPE	С	SITE	# MD	)/NO	H/P	DATE	IN TIME	IN DA	TE C	DUT TIN	1E OUT	NET TY	/PE	LENGT	Н	DEPT	H N	MESH S	IZE SE	Т	HAB
R.																					
ΈA																					
0																					
											R SPEC										
	С		# MD						F SE		NGTH	WIDT	Н		VOLT	_	- 1	PLSE	MAKE		MDL
	0	5	E	F/1	1	0835	085	)	493		100	9.9		0	200	6	U	Fixed	Coffel	τ	Mk X
COMMENTS	С																				
MN																					
00																					
									ИD	VIDLI	L FISH		٨								
							LENGTH	WEIG			(L I IOI	IDAI	^	AGE							
С	SIT	E#N	/ID/NO	H/P	SP	PECIES	(mm)	(gms		SEX	MATU	IR S	TR	SAMPLE	# .	AGE		CC	MMENT	S	
	Ę	,	EF/1	1		GR	306	(91110	′)	M			ale	5-1	- π   1	5+					
	- 5		EF/1	1		GR	350			M			ale	5-2		5+					
	5		EF/1	1		GR	331			F			ale	5-3		5+					
	5		EF/1	1		GR	316			F			ale	5-4		5+					
	- 5	5	EF/1	1		MW	303						ale	5-5	r	egen					
	5		EF/1	1		CCG	77														
	5	5	EF/1	1	(	CCG	157														



Nevis Creek
Site 5: View upstream from bottom of site.
(Roll BP1 - Exp 6; CD 1 - Im 20)



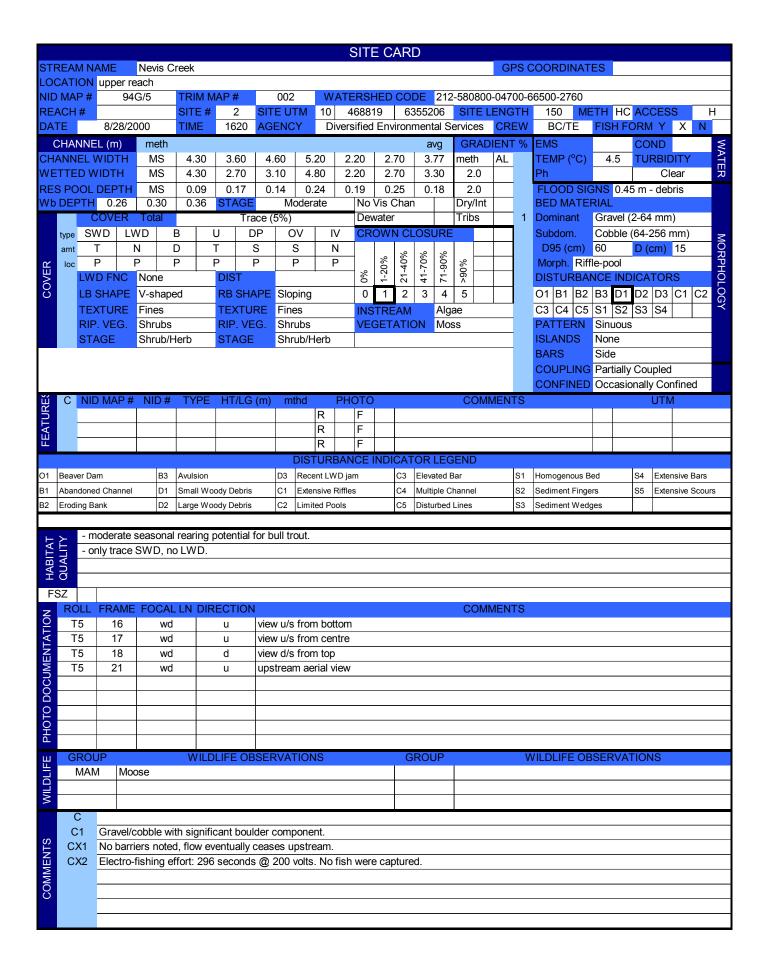
Nevis Creek Site 5: View downstream from top of site. (Roll BP1 - Exp 8; CD 1 - Im 22)

# **APPENDIX XIV**

### **NEVIS CREEK**

(212 - 580800 - 04700 - 66500 - 2760)

# Sample Site 2



								F	ISH	COLL	ECTIO	N FOR	RM	_				_			
		M NA	AME	N	levis C	reek						_				LAKE		STRE			ETLAND
	CATI				pper re	each		_				WATE	RSHE								
WA	TER	BOE	OY IE	)				ILP MA	ŀΡ		ILP	#		SITE	/LA	KE CA	RD A	TTAC	HED	ΧY	N
PRO	)JE	CT IE	D	В	esa-Pr	ophet Ov	erview	REACH	<b>∃</b> #		SIT	E#	2	FISH	I PE	RMIT	#		SC20	00-021	
DAT	Έ		8	3/28/20	000	to 8	3/28/2000	AGEN	CY	Diversif	ied Envir	onmental	Service	es (	CRE	W	Е	3C/TE		RE-SAN	ИPLE
												STREA	M CO	NDITIC	INC						
Q	S	ITE:	#	NID I	MAP#	NID#	SITI	E UTM		METH	OD/NO.				_			CON	<b>MEN</b>	TS	
SITE / METHOD				0.4	0/5	000	40.4000	10.00550	00		T 4	TEMP	CON								
Ш		2		94	G/5	002	10.4688	19.63552	06	EF	1	4.5		С							
$\mathbf{Z}$																					
Ш																					
S																					
	SIT		М٦	ΓD/NC	H/P	SPECI	ES STAGI	AGE	TO	TAL NO	MIN L	N (mm)	MAX	LN (mı	m)	FISH	ACT		COI	MMENTS	3
≿	2	2	E	EF/1	1	NFC		Ī		0					Ĭ						
1AF																					
$\leq$																					
SU									1												
FISH SUMMARY																					
띪									1												
γį														MEI	<b>7</b> TI	RAPS	PEC	FICAT	2MOI		
GEAR SPECS	С	SIT	E #	MD/N	O H/P	DATE	IN TIME	IN D/	TE (		ME OUT	NET TY	/DE I	ENGT		DEF		MESH		SET	HAB
SF		311	∟ π	וועטווו	0 1 1/1	DAIL	IIN I IIVIL	. 114	\IL (	301 111	VIL OUT	INLIII		LING		DLI	111	IVILOI	I JIZL	OLI	IIAD
AR																					
3E,																					
_									OTE	20 EIOLIE		VIEIO A TI	ONO								
	0	OIT	- 4	NAD /N		TIME	N. TIME			ROFISHE				NOL	\ (O)	<b>T</b>   <b>F</b>	DEO	DI OF		44145	MDI
	С		_		O H/P				296		150	WIDT 3.3		NCL	VOL		REQ 60	PLSE		MAKE	MDL
		2	-	EF/	1	1625	163	50	/9n					0	20					Coffelt	Mk X
	_									,	150	0.0		Ū		0	00	1 IXCC	, ,		
TS	С		•			l				,	130	0.0		Ū			00	TIXCO	<u> </u>		
ENTS	С								200		130	0.0						TIACC	-		
<b>MMENTS</b>	С										130	0.0						TIACC			
SOMMENTS	С										130	0.0						Tixee			
COMMENTS	С																	TIACC			
COMMENTS	С								IND	IVIDUA								TIACC			
		F#	MD/	/NO H	/P SE	PECIES	LENGTH	WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
COMMENTS		E#	MD/	YNO H	/P SF	PECIES	LENGTH (mm)		IND GHT			H DATA	4			AGE				MENTS	
		E#	MD/	'NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MD/	'NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MDA	'NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MD/	'NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MD/	'NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MD/	NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MD/	NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MD/	NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MD/	'NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MD/	'NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MD/	NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MD/	'NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MD/	NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MD/	NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MD/	NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MD/	NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MD/	NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MD/	NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MD/	NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MD/	NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							
		E#	MD/	NO H	/P SF	PECIES		WEIG	IND GHT	IVIDUA	AL FISI	H DATA	4	AGE							



Nevis Creek
Site 2: View upstream from bottom of site.
(Roll T5 - Exp 16; CD 1 - Im 6)



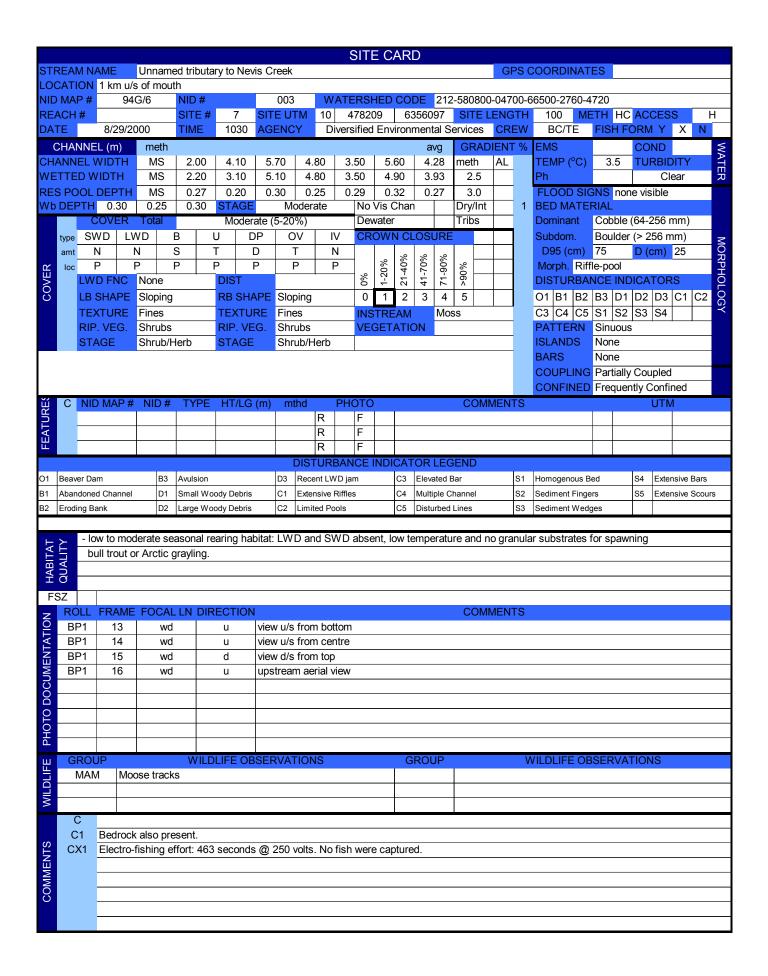
Nevis Creek Site 2: Upstream aerial view. (Roll T5 - Exp 21; CD 1 - Im 11)

### **APPENDIX XV**

### UNNAMED TRIBUTARY TO NEVIS CREEK

(212-580800-04700-66500-2760-4720)

# Sample Site 7



									F	ISH	COLL	<b>ECTIO</b>	N FOF	RM								
STF	REA	M NA	AME	Un	name	ed tributa	ry to I	Nevis Cı	reek								LAKE	Х	STRE	AM	WE	ETLAND
LOC	CATI	ON		1 k	m u/s	s of mout	:h						WATE	ERSH	ED C	ODE	212-5	80800	-04700	)-6650	0-2760-4	720
WA	TER	BOE	DY ID	)					ILP MA	Р		ILP	#		S	ITE/LA	KE C	ARD A	TTAC	HED	ΧY	N
PRO	OJE	CT IE	)	Ве	sa-Pr	ophet O	vervie	w	REACH	l #		SIT	E#	7	F	ISH PE	ERMIT	- #		SC20	00-021	
DAT	ΓE		8/	/29/200	00	to	8/29/2	2000	AGENO	Ϋ́	Diversif	ied Enviro	onmental	l Servi	ices	CRI	EW	Е	3C/TE		RE-SAI	MPLE
						1.5							STREA	ΛΝ <i>1</i> C (	UNIDI							
٥	S	ITE :	#	NID M	AP#	NID#		SITE	UTM		METH	OD/NO.							COI	MMEN	TS	
H				0.10	10	222	- 10						TEMP	CO	N	TURB						
SITE / METHOD		7		94G	/6	003	10	).478209	9.635609	97	EF	1	3.5			С						
/ M																						
Ε																						
S																						
	SIT	E#		D/NO	H/P	SPECI	ES	STAGE	AGE	TO	TAL NO	MIN LI	N (mm)	MA	X LN	(mm)	FISH	I ACT		COI	MMENTS	3
۲۲	7	7	Е	F/1	1	NFC	;				0											
FISH SUMMARY																						
MI																						
SU																						
HS																						
Ħ																						
55															1	NET / T	RAP	SPEC	IFICAT	IONS		
GEAR SPECS	С	SIT	F#	MD/NC	H/P	DATE	IN	TIME	IN DA	TF (	OUT TIN	ME OUT	NET T	YPF		IGTH		PTH	MESH		SET	HAB
SF		0			1	57112			57.										0.	. 0.22	02.	
AR																						
GE																						
									ELE	СТБ	OFISHE	ER SPEC	IFICATI	ONS								
	С	SITI	E # I	MD/NC	ЛН/Р	TIME	INI	TIME C		F SE		NGTH	WIDT		ENC	L VC	N T I	FREQ	PLS	E I N	MAKE	MDL
				IVID/IVC	/   1/1																	
	_	7	7	EE/1	1	103	5	1055		163	1	100	3 0	1	$\sim$	1 2	50	നെ	Five	4 I (	^off∆lt	MLY
		7	7	EF/1	1	103	5	1055	5	463	3	100	3.9		0	25	50	60	Fixe	d (	Coffelt	Mk X
TS	С	7	7	EF/1	1	103	5	1055	5	463	}	100	3.9		0	2	50	60	Fixe	d (	Coffelt	Mk X
ENTS		7	<u> </u>	EF/1	1	103	5	1055	5	463	3	100	3.9		0	2	50	60	Fixe	d (	Coffelt	Mk X
MMENTS		7	7	EF/1	1	1035	5	1055	5	463	3	100	3.9		0	25	50	60	Fixe	d   (	Coffelt	Mk X
COMMENTS		7	<b>'</b>	EF/1	1	1038	5	1055	5	463	3	100	3.9		0	28	50	60	Fixe	d C	Coffelt	Mk X
COMMENTS		7	,	EF/1	1	1038	5	1055							0	28	50	60	Fixe	d C	Coffelt	Mk X
COMMENTS		7		EF/1	1	1038				IND		100					50	60	Fixe	d C	Coffelt	Mk X
COMMENTS	С			EF/1		1038	LEI	NGTH	WEIG	ND HT			H DAT	A	A	GE					MENTS	Mk X
	С						LEI			ND HT	IVIDUA	AL FISI	H DAT	A	A		AGE					Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X
	С						LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	A	GE						Mk X



Unnamed tributary to Nevis Creek Site 7: View upstream from bottom of site. (Roll BP1 - Exp 13; CD 1 - Im 27)



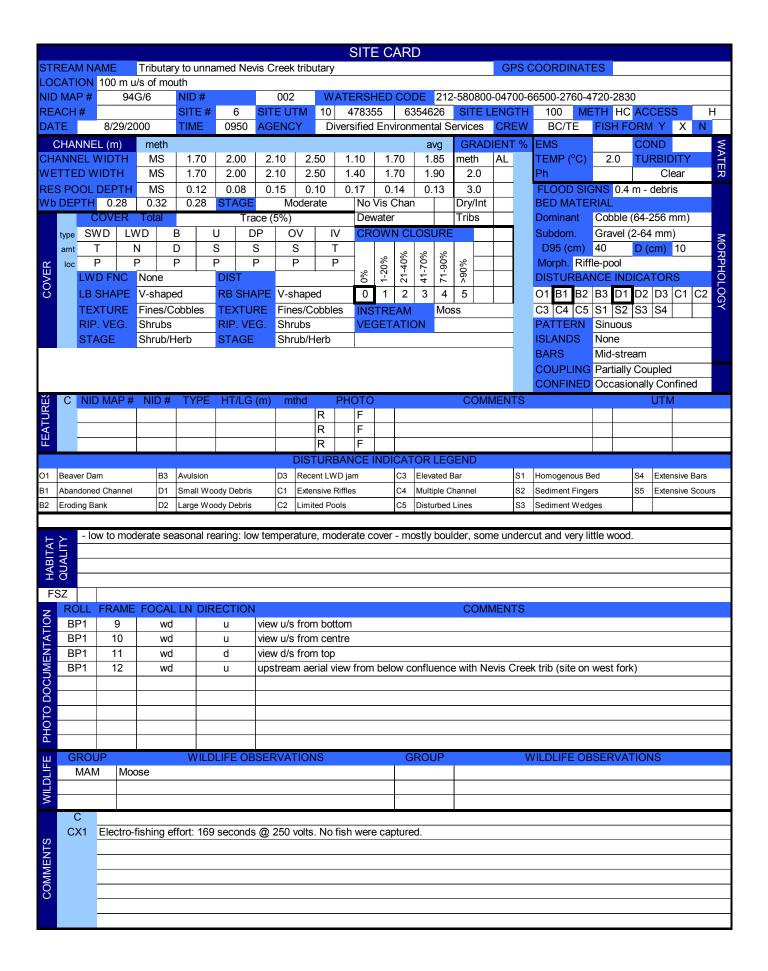
Unnamed tributary to Nevis Creek Site 7: Upstream aerial view. (Roll BP1 - Exp 16; CD 1 - Im 30)

### APPENDIX XVI

### TRIBUTARY TO UNNAMED NEVIS CREEK TRIBUTARY

(212-580800-04700-66500-2760-4720-2830)

# Sample Site 6



										FI.	ISH	COLL	ECHO.	N FOF	RM								
STF	REA	M NA	AME	Į	Jnna	ame	d tributa	ry to l	Nevis Cr	eek								LAK	E X	STRE	AM	WE	TLAND
LO	CATI	ON		-	100 r	m u/	s of mou	uth					WA	TERSHI	ED CO	DE	212	-580	800-047	700-665	500-27	60-4720-	2830
			OY IE	) _						ILP MAI	Р		ILP				E/LA	KE (	CARD A	ATTAC	HED	Х Ү	N
	OJE				Besa	a-Pro	ophet Ov	vervie		REACH			SIT	E#	6		Н РЕ					00-021	
DA				3/29/2				8/29/2		AGENC		Diversit	ied Envir		Servic		CRE			BC/TE		RE-SAN	/PI F
	_			)	.000		10 0	JI Z JI Z	2000	AGLING	' 1	Diversi	ica Envir					_ • •		DO/TE		INE-OAN	'II LL
0	S	ITE	#	NID	MAF	⊃#	NID#		SITE	UTM		METH	OD/NO.	STREA						CON	имем	TS	
Ю														TEMP	CON		JRB						
Ė		6		94	4G/6	;	002	10	0.478355	5.635462	26	EF	1	2			С						
SITE / METHOD																							
Ε/																							
SIT																							
-																							
	SIT	E#	МТ	TD/N	O H	H/P	SPECI	ES I	STAGE	AGE	TO	TAL NO	MIN L	N (mm)	MAX	LN (n	nm)	FIS	Н АСТ		COI	MMENTS	;
Υ	6			EF/1		1	NFC					0		( )		,	,						
AR																							
FISH SUMMARY																							
NO:																							
ВН																							
ISI-																							
Ψ.													1										
GEAR SPECS	_																		SPEC				
SPE	С	SIT	E#	MD/N	NOI	H/P	DATE	IN	TIME	IN DA	TE (	DUT TI	ME OUT	NET T	YPE	LENG	TH	D	EPTH	MESH	SIZE	SET	HAB
R																							
ΕA																							
9																							
										ELE	CTF	ROFISH	ER SPEC	CIFICATI	ONS								
	С	SIT	Έ#	MD/N	NO	H/P	TIME	IN	TIME O	UT E	F SE	C L	ENGTH	WIDT	H E	ENCL	VO	LT	FREQ	PLSI	Ξ 📗	MAKE	MDL
					14	4	4000	_	4045		400					0	~	- ^	00	-:	_	Coff olt	Mk X
		6	ן כ	EF/	1	1	1000	,	1015	)	169		100	1.9		U	25	50	60	Fixe	d   t	Coffelt	IVIIV
S	С	t	5	EF/	1	1	1000	,	1015	)	169		100	1.9		U	25	00	60	Fixe	d   (	Jonen	WIK
NTS	С	(	0	EF/		1	1000	)	1015	)	169		100	1.9		0	25	00	60	Fixe	d   (	Jonen	WIK
MENTS	С	(	0	EF/	'I	1	1000	)	1015	)	109		100	1.9			25	00	60	Fixed	d   (	Correit	WIK X
OMMENTS	С	-	o	EF/		1	1000		1015	)	169		100	1.9			28	50	60	Fixed	d   (	Joneil	WIK X
COMMENTS	С		<u> </u>	EF/		1	1000		1015	)	169		100	1.9			28	50	60	Fixed	d   (	Joneil	WIK X
COMMENTS	С		0	EF/	<u> </u>	1	1000		1015	\							28	50	60	Fixed	d   (	Sorieit	WIN
											ND	IVIDU.	AL FISI	H DAT				50	60				WIKX
COMMENTS				EF/			ECIES	LEI	NGTH	WEIG	ND HT			H DAT	A	AGE						MENTS	WIN
								LEI			ND HT	IVIDU.	AL FISI	H DAT	A			AC					WIKX
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							WINX
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							IVIN X
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							WINX
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							WINX
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							WINX
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							WINX
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							WINX
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							WINX
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							WINX
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							WINX
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							WINX
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							
								LEI	NGTH	WEIG	ND HT	IVIDU.	AL FISI	H DAT	A	AGE							



Tributary to unnamed Nevis Creek tributary Site 6: View upstream from bottom of site. (Roll BP1 - Exp 9; CD 1 - Im 23)



Tributary to unnamed Nevis Creek tributary
Site 6: Upstream aerial view from below confluence with Nevis tributary (site on west fork).

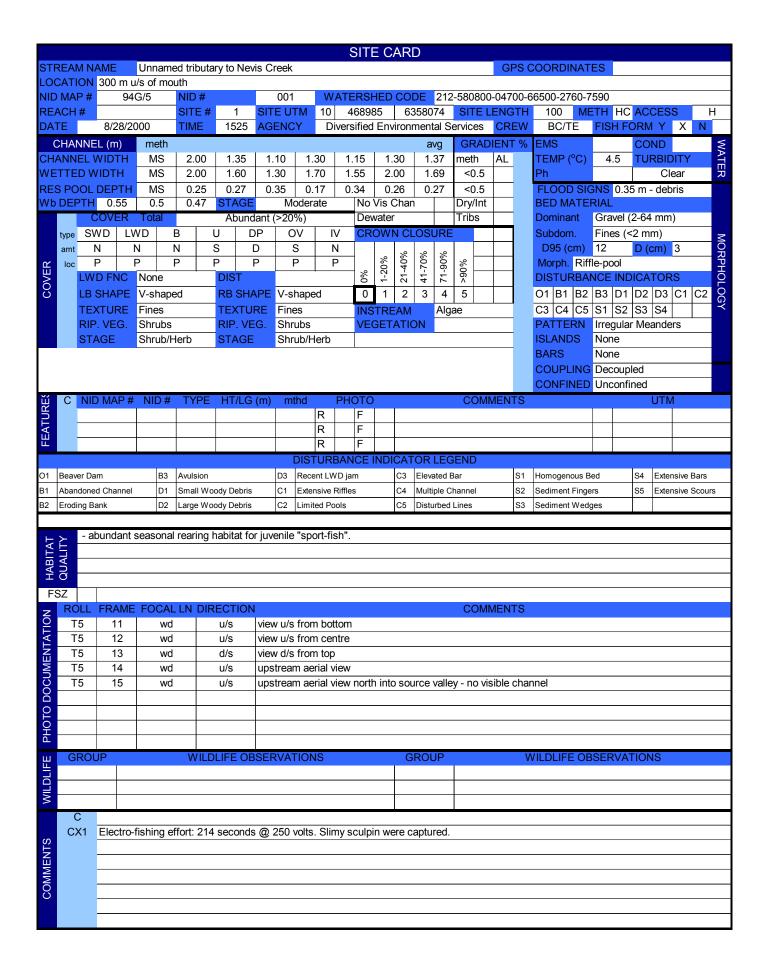
(Roll BP1 - Exp 12; CD 1 - Im 26)

### **APPENDIX XVII**

### UNNAMED TRIBUTARY TO NEVIS CREEK

(212-580800-04700-66500-2760-7590)

### Sample Site 1



WETLAND 12760-7590  X Y N 10-021  RE-SAMPLE  S  MENTS
X Y N D-021 RE-SAMPLE
D-021 RE-SAMPLE S
RE-SAMPLE S
S
MENTS
SET HAB
AKE MDL
offelt Mk X
ENTS



Unnamed tributary to Nevis Creek Site 1: View downstream from top of site. (Roll T5 - Exp 13; CD 1 - Im 3)



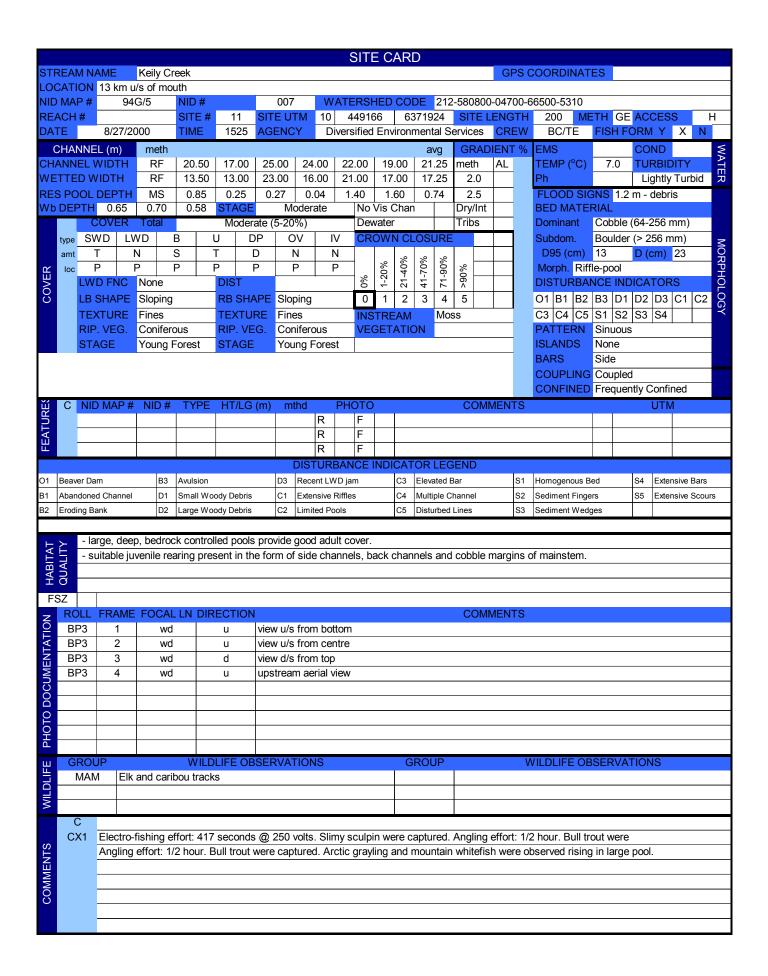
Unnamed tributary to Nevis Creek Site 1: Upstream aerial view. (Roll T5 - Exp 14; CD 1 - Im 4)

# **APPENDIX XVIII**

### **KEILY CREEK**

(212 - 580800 - 04700 - 66500 - 5310)

### Sample Site 11



CTD								FI	ISH	COLL	ECTIO	N FOF	₹M														
STREAM NAME Keily Creek															L	LAKE	Х	STRE	EΑΜ	WE	ETLAND						
LOC	ATI	ON		13 k	km u/	/s of mou	th					WATE	RSHE	D COD						0-5310							
WA	TER	BOD	Y ID					ILP MAI	Р		ILP	#		SITE	/LA	KE CA	RD A	TTAC		XY	N						
PRC	JEC	CT ID	)	Bes	a-Pr	ophet Ov	erview	REACH	l #		SITI	Ε#	11	FISH	PE	RMIT:	#		SC20	00-021							
DAT	Έ		8/29	9/2000	0	to 8	/29/2000	AGENC	Ϋ́	Diversifi	ed Enviro	nmenta	Servic	ces (	RE	W	Е	3C/TE		RE-SAI	MPLE						
												STRE	AM CC	NDITIO	ΝĪ												
9	SI	ITE#	∮ NI	IID MAP#		NID#	SITE	EUTM		METHOD/NC		TEMP			_			CO	MMEN	TS							
¥ I		11		94G/	5	007	10.44016	6 627101	924 EF		1	7	CON TURB		ь												
SITE / METHOD		11		94G/				0.449166.637192 0.449166.637192		AG	1	7		L													
/		11		940/0		007	10.44910	0.037 192	24	AG	ı																
Щ																											
S																											
	CITI	- 41	 		LL/D	CDECII	-c lotace	100	ITO	TAL NO	NAINI I N	1 ()	NAAN	/ I NI /	-\	FICIL	۸ОТ	OT.			,						
	SITI	_			H/P			AGE	10	TAL NO	MIN LN	, ,	IVIAX	LN (mn	1)	FISH			CO	MMENTS	5						
ᇫ	11				1	CCG				5	6			90		Rea											
MA	11	1	AG	/1	1	1 BT	Adult			2	25	5		330		Rea	ing										
$\leq$																											
S									<u> </u>																		
FISH SUMMARY																											
ш																											
GEAR SPECS		0:-								=		NET	(D=1					FICAT									
SP	С	SITE	E# MI	D/NO	H/P	DATE	IN TIME	IN DA	TE (	OUT TIN	IE OUT	NET T	YPE	LENGT	1	DEP	TH	MESI	H SIZE	SET	HAB						
R.	-																										
SE/	-																										
J									OTE	OFIGUE	D ODEO	IEIOATI	ONO														
ı	С	CITE	- # NAI	Z/N/O	⊔/D	TIME	N TIME C			ROFISHE				ENCL	VOL	TIC	REQ	PLS	<u> </u>	MAKE	MDL						
-		11		D/NO H/P TIME IN 1530			TIME OUT EF S							O 250		60	Fixe		Coffelt	Mk X							
(0	С	- ' '		. , ,		1000	1000	,	717		200	17.2	-	U	200	·	00	1 1/10	۷	OUTICIL	WIK X						
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iii I																											
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OMMI	-																										
COMMENTS	-																										
COMMI	-								ND	IVIDUA	AL FISH	l DAT	A														
	SITI	F # N	MD/N(	) H/P	SP	PECIES	LENGTH	WEIG	HT			R		AGE					COM	MENTS							
			MD/N(	) H/P		PECIES	(mm)		HT	SEX	MATU	R S	TR S	SAMPLE	#	AGE			COMI	MENTS							
	11	1	AG/1	1		ВТ	(mm) 255	WEIG	HT	SEX M	MATU Spawni	R Sing Fin	TR S	SAMPLE 11-1	:#	3+			COMI	MENTS							
	11	1	AG/1	1		BT BT	(mm) 255 330	WEIG	HT	SEX	MATU	R Sing Fin	TR S	SAMPLE	#				СОМІ	MENTS							
	1°	1 1	AG/1 AG/1 EF/1	1 1 1	(	BT BT CCG	(mm) 255 330 90	WEIG	HT	SEX M	MATU Spawni	R Sing Fin	TR S	SAMPLE 11-1	#	3+			СОМІ	MENTS							
	1°	1 1 1 1	AG/1 AG/1 EF/1 EF/1	1 1 1 1	(	BT BT CCG CCG	(mm) 255 330 90 61	WEIG	HT	SEX M	MATU Spawni	R Sing Fin	TR S	SAMPLE 11-1	. #	3+			COMI	MENTS							
	111111111111111111111111111111111111111	1 1 1 1 1	AG/1 AG/1 EF/1 EF/1	1 1 1 1	(	BT BT CCG CCG	(mm) 255 330 90 61 90	WEIG	HT	SEX M	MATU Spawni	R Sing Fin	TR S	SAMPLE 11-1	#	3+			СОМІ	MENTS							
	1° 1° 1° 1° 1°	1 1 1 1 1 1	AG/1 AG/1 EF/1 EF/1 EF/1	1 1 1 1 1 1	(	BT CCG CCG CCG	(mm) 255 330 90 61 90 63	WEIG	HT	SEX M	MATU Spawni	R Sing Fin	TR S	SAMPLE 11-1	. #	3+			СОМІ	MENTS							
	111111111111111111111111111111111111111	1 1 1 1 1 1	AG/1 AG/1 EF/1 EF/1	1 1 1 1	(	BT BT CCG CCG	(mm) 255 330 90 61 90	WEIG	HT	SEX M	MATU Spawni	R Sing Fin	TR S	SAMPLE 11-1	#	3+			СОМІ	MENTS							
	1° 1° 1° 1° 1°	1 1 1 1 1 1	AG/1 AG/1 EF/1 EF/1 EF/1	1 1 1 1 1 1	(	BT CCG CCG CCG	(mm) 255 330 90 61 90 63	WEIG	HT	SEX M	MATU Spawni	R Sing Fin	TR S	SAMPLE 11-1	#	3+			СОМІ	MENTS							
	1° 1° 1° 1° 1°	1 1 1 1 1 1	AG/1 AG/1 EF/1 EF/1 EF/1	1 1 1 1 1 1	(	BT CCG CCG CCG	(mm) 255 330 90 61 90 63	WEIG	HT	SEX M	MATU Spawni	R Sing Fin	TR S	SAMPLE 11-1	#	3+			COMI	MENTS							
	1° 1° 1° 1° 1°	1 1 1 1 1 1	AG/1 AG/1 EF/1 EF/1 EF/1	1 1 1 1 1 1	(	BT CCG CCG CCG	(mm) 255 330 90 61 90 63	WEIG	HT	SEX M	MATU Spawni	R Sing Fin	TR S	SAMPLE 11-1	#	3+			COMI	MENTS							
	1° 1° 1° 1° 1°	1 1 1 1 1 1	AG/1 AG/1 EF/1 EF/1 EF/1	1 1 1 1 1 1	(	BT CCG CCG CCG	(mm) 255 330 90 61 90 63	WEIG	HT	SEX M	MATU Spawni	R Sing Fin	TR S	SAMPLE 11-1	#	3+			COMI	MENTS							
	1° 1° 1° 1° 1°	1 1 1 1 1 1	AG/1 AG/1 EF/1 EF/1 EF/1	1 1 1 1 1 1	(	BT CCG CCG CCG	(mm) 255 330 90 61 90 63	WEIG	HT	SEX M	MATU Spawni	R Sing Fin	TR S	SAMPLE 11-1	#	3+			COMI	MENTS							
	1° 1° 1° 1° 1°	1 1 1 1 1 1	AG/1 AG/1 EF/1 EF/1 EF/1	1 1 1 1 1 1	(	BT CCG CCG CCG	(mm) 255 330 90 61 90 63	WEIG	HT	SEX M	MATU Spawni	R Sing Fin	TR S	SAMPLE 11-1	#	3+			COMI	MENTS							
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	1° 1° 1° 1° 1°	1 1 1 1 1 1	AG/1 AG/1 EF/1 EF/1 EF/1	1 1 1 1 1 1	(	BT CCG CCG CCG	(mm) 255 330 90 61 90 63	WEIG	HT	SEX M	MATU Spawni	R Sing Fin	TR S	SAMPLE 11-1	#	3+			COMI	MENTS							
	1° 1° 1° 1° 1°	1 1 1 1 1 1	AG/1 AG/1 EF/1 EF/1 EF/1	1 1 1 1 1 1	(	BT CCG CCG CCG	(mm) 255 330 90 61 90 63	WEIG	HT	SEX M	MATU Spawni	R Sing Fin	TR S	SAMPLE 11-1	#	3+			COMI	MENTS							
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	1° 1° 1° 1° 1°	1 1 1 1 1 1	AG/1 AG/1 EF/1 EF/1 EF/1	1 1 1 1 1 1	(	BT CCG CCG CCG	(mm) 255 330 90 61 90 63	WEIG	HT	SEX M	MATU Spawni	R Sing Fin	TR S	SAMPLE 11-1	#	3+			COMI	MENTS							
	1° 1° 1° 1° 1°	1 1 1 1 1 1	AG/1 AG/1 EF/1 EF/1 EF/1	1 1 1 1 1 1	(	BT CCG CCG CCG	(mm) 255 330 90 61 90 63	WEIG	HT	SEX M	MATU Spawni	R Sing Fin	TR S	SAMPLE 11-1	.#	3+			COMI	MENTS							



Keily Creek
Site 11: View downstream from top of site.
(Roll BP3 - Exp 3; CD 1 - Im 47)



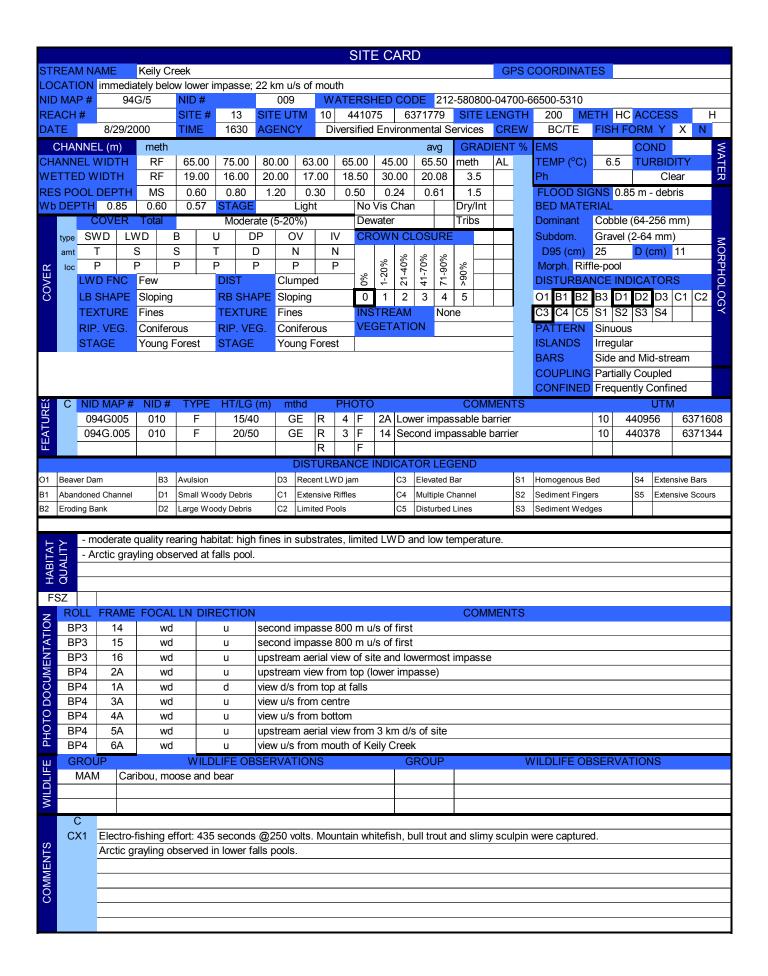
Keily Creek Site 11: Upstream aerial view. (Roll BP3 - Exp 4; CD 1 - Im 48)

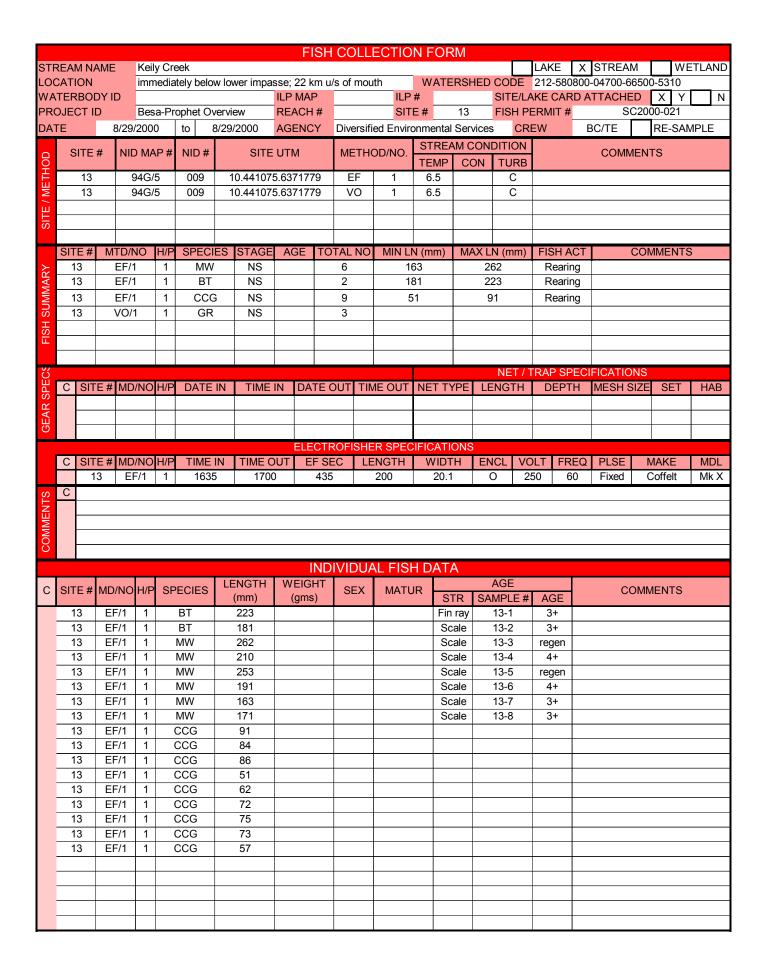
## **APPENDIX XIX**

#### **KEILY CREEK**

(212-580800-04700-66500-5310)

# Sample Site 13







Keily Creek
Site 13: View upstream from bottom of site.
(Roll BP4 - Exp 4A; CD 1 - Im 57)



Keily Creek Site 13: View downstream from top of site. (Roll BP4 - Exp 1A; CD 1 - Im 59)



Keily Creek
Site 13: View upstream from top of site; lowermost impasse.
(Roll BP4 - Exp 2A; CD 1 - Im 60)



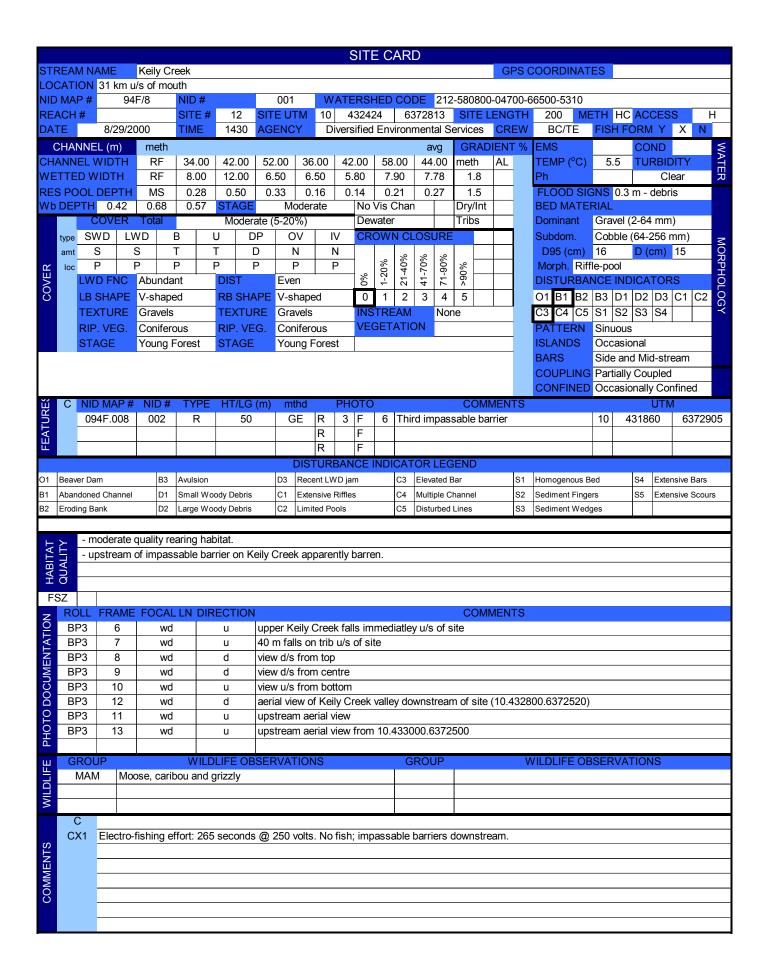
Keily Creek
Site 13: Upstream aerial view of site and lowermost impasse.
(Roll BP3 - Exp 16; CD 1 - Im 61)

## **APPENDIX XX**

#### **KEILY CREEK**

(212-580800-04700-66500-5310)

# Sample Site 12



	FISH COLLECTION FORM																				
STREAM NAME Keily Creek LOCATION 31 km u/s of mouth																	LAKE		STREAM		ETLAND
				31	km u	/s of mou	ith							RSH						6500-5310	
		BOD CT ID		Pos	o Dr	ophet Ov	on iou		LP MAF REACH		ILP# SITE/LA SITE# 12 FISH PE								TTACHE	D X Y C2000-021	N
DAT		>1 IL		29/200			3/29/2000	_	AGENC		Diversifi	ed Enviro				CR		_	BC/TE	RE-SA	MDLE
DA			0/.	29/200	U	10   0	1/29/2000		TOLING	_	Diversiii	ed LIIVII	STRE				LVV		SC/TE	INL-SA	VIFLL
OC	S	ITE #	# NID N		\P#	NID#	SI	ITE L	JTM		METH	OD/NO.	TEMP		_	TURB			COMM	IENTS	
SITE / METHOD		12		94F/	8	001	10.432	424	.637281	3	EF	1	5.5								
ME.				0 11 7		001			.007 201			•	0.0	+ + -							
Ε/																					
SIT																					
	SIT			D/NO	H/P			GE	AGE	TO	TAL NO	MIN LI	1 (mm)	MA	X LN	l (mm)	FISH	ACT	(	COMMENT	S
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FISH SUMMARY								-													
SUN								_													
SH								$\pm$													
Ë																					
																				_	
GEAR SPECS		CITI	- <b>д</b> Г	/ID/NO	LL/D	DATE	INI TIN	AE IN	I DAT	FF 6	NUT TIN	4E OUT	NICT T	/DE I					FICATIO		LIAD
SP	С	5111	= #    \	/ID/NO	H/P	DATE	IIN I IIN	ME IN	N DAT	EC	JUI IIK	ME OUT	NET T	rpe	LEI	NGTH	DEP	'IH	MESH S	SIZE SET	HAB
AR	ŀ																				
GE																					
									ELE	CTR	OFISHE	R SPEC	IFICATI	ONS							
	С			/ID/NO	_								WIDT	Ή	ENC		OLT FREQ		PLSE MAKE		MDL
	0	12	2	EF/1	1	1435	, 1	455		265		200	7.8		0	2:	50	60	Fixed	Coffelt	Mk X
COMMENTS	С																				
MEN																					
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С											IVIDUA	L FISH	l DAT	Ą							
	SIT	E#	MD/N	IO H/P	SF	PECIES	LENGT	Н	WEIGH	łΤ	VIDU <i>A</i> SEX	AL FISH MATU	R			AGE	LACE		CC	OMMENTS	
	SIT	E#	MD/N	IO H/P	SF	'ECIES	LENGT (mm)	H		łΤ			R			AGE MPLE#	AGE		CC	DMMENTS	
	SIT	E#	MD/N	NO H/P	SF	ECIES		H	WEIGH	łΤ			R				AGE		CC	DMMENTS	
	SIT	E#	MD/N	IO H/P	SF	PECIES		H	WEIGH	łΤ			R				AGE		CC	DMMENTS	
	SIT	E#	MD/N	IO H/P	SF	PECIES		H	WEIGH	łΤ			R				AGE		CC	DMMENTS	
	SIT	E#	MD/N	NO H/P	SF	PECIES		H	WEIGH	łΤ			R				AGE		CC	DMMENTS	
	SIT	E#	MD/N	NO H/P	SF	PECIES		H	WEIGH	łΤ			R				AGE		CC	DMMENTS	
	SIT	E#	MD/N	NO H/P	SF	PECIES		H	WEIGH	łΤ			R				AGE		CC	DMMENTS	
	SIT	E#	MD/N	NO H/P	SF	PECIES		H	WEIGH	łΤ			R				AGE		CC	DMMENTS	
	SIT	E#	MD/N	NO H/P	SF	PECIES		H	WEIGH	łΤ			R				AGE		CC	DMMENTS	
	SIT	E#	MD/N	H/P	SF	PECIES		H	WEIGH	łΤ			R				AGE		CC	DMMENTS	
	SIT	E#	MD/N	H/P	SF	PECIES		H	WEIGH	łΤ			R				AGE		CC	DMMENTS	
	SIT	E#	MD/N	H/P	SF	PECIES		H	WEIGH	łΤ			R				AGE		CC	DMMENTS	
	SIT	E#	MD/N	H/P	SF	PECIES		H	WEIGH	łΤ			R				AGE		CO	DMMENTS	
	SIT	E#	MD/N	NO H/P	SF	PECIES		H	WEIGH	łΤ			R				AGE		CC	DMMENTS	
	SIT	E#	MD/N	HO H/P	SF	PECIES 1		H	WEIGH	łΤ			R				AGE		CC	DMMENTS	
	SIT	E#	MD/N	H/P	SF	PECIES		H	WEIGH	łΤ			R				AGE		CC	DMMENTS	
	SIT	E#	MD/N	H/P	SF	PECIES		H	WEIGH	ΗT			R				AGE		CC	DMMENTS	
	SIT	E#	MD/N	NO H/P	SF	PECIES		H	WEIGH	ΗT			R				AGE		CC	DMMENTS	



Keily Creek
Site 12: View upstream from bottom of site.
(Roll BP3 - Exp 10; CD 1 - Im 49)



Keily Creek
Site 12: View downstream from centre of site.
(Roll BP3 - Exp 9; CD 1 - Im 51)



Keily Creek Site 12: Upstream aerial view. (Roll BP3 - Exp 11; CD 1 - Im 52)



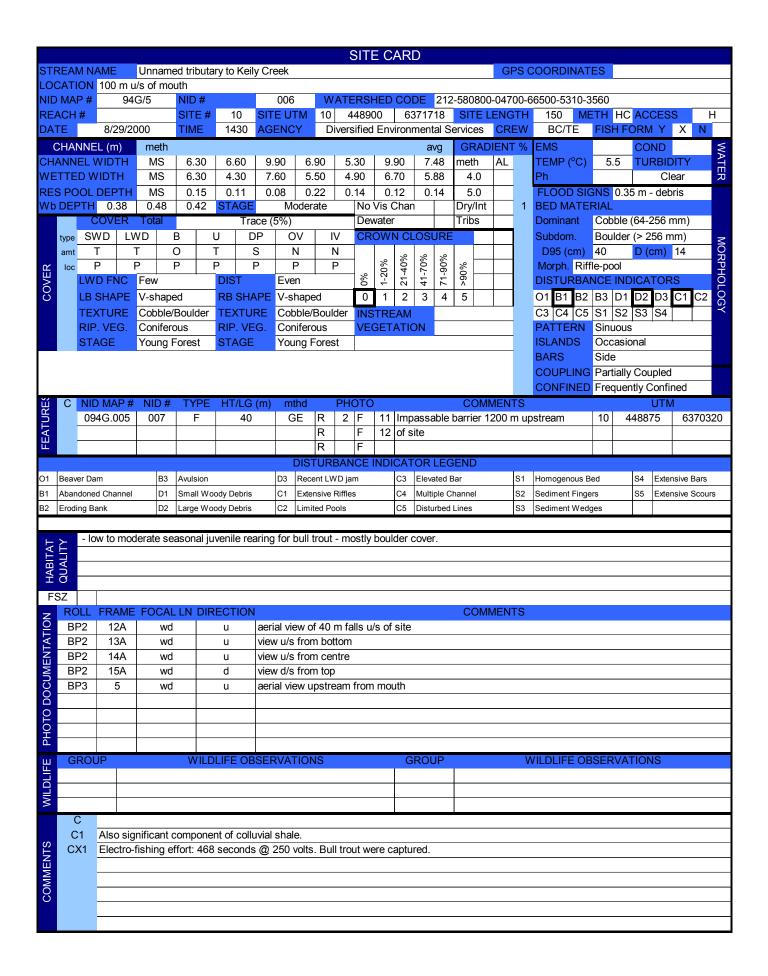
Keily Creek
Site 12: 50 m falls upstream of site (57° 29.47' 124°08.38').
(Roll BP3 - Exp 6; CD 1 - Im 55)

# **APPENDIX XXI**

#### UNNAMED TRIBUTARY TO KEILY CREEK

(212-580800-04700-66500-5310-3560)

## Sample Site 10



	FISH COLLECTION FORM  STREAM NAME Unnamed tributary to Keily Creek LAKE X STREAM WETLAND																				
STF	REA	M NAN	ΛE					eek								LAKE		STREA			TLAND
LOC				100	m u	ı/s of moı	uth						RSH					0-04700-6			
		BODY	/ ID					ILP MAF			ILP							ATTACHE		ΧY	N
PRO	DJE	CT ID		Bes	a-Pr	ophet O	verview	REACH			SIT	E#	10	F	ISH PE	RMIT	#	S		00-021	
DA	ΓΕ		8/29	9/200	0	to	8/29/2000	AGENC	Y	Diversif	ied Envir	onmental	Servi	ices	CRE	EW	I	BC/TE		RE-SAN	//PLE
	0	ITE#	NII	D MA	D#	NID#	CITE	LITM	LITA		METHOD/NO.		TREAM CONDITION		ITION			COMM	/ENI	re	
ОО	3	!!⊏#	INI	אואו טו	\P #	# טוא	SILE	EUTM		INEIH	OD/NO.	TEMP			TURB			COMM	IIII I	13	
王		10		95G/	5	006	10.44890	0.6371718		EF	1	5.5			С						
ME													-								
Ε/																					
SITE / METHOD																					
•,																					
	SIT	E#	MTD/	/NO	H/P	SPECI	ES STAGE	AGE	TO	TAL NO	MIN L	N (mm)	MAX	X LN	(mm)	FISH	ACT		CON	MENTS	3
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SUMMARY																					
M																					
SU																					
FISH																					
Ë	Ĩ																				
CS														1	NET / T	RAP (	SPEC	IFICATIO	NS		
GEAR SPECS	С	SITE	# M[	D/NO	H/P	DATE	IN TIME	IN DA	ΓΕ (	DUT TII	ME OUT	NET T	/PE	LEN	IGTH	DEI	PTH	MESH S	SIZE	SET	HAB
RS																					
EA																					
Ð																					
											ER SPEC	IFICATI	ONS								
	С		# M		H/P				= SE		ENGTH	WIDT	Ή	ENC			REQ	PLSE		1AKE	MDL
		10	E	F/1	1	143	5 1500	)	460	)	250	5.9		0	25	50	60	Fixed	C	offelt	Mk X
LS	С																				
COMMENTS																					
IMI																					
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)									UD.	D (IDL)	AL EIO	LDAT	Δ.								
							. =			וטטואו	AL FISI	1 DAT	4		0.5						
С	SIT	E#N	1D/NC	H/P	SF	PECIES	LENGTH	WEIGH		SEX	MATU	JR	I		GE	4.05	_	C	OMM	IENTS	
			FF/4			DT	(mm)	(gms	)						IPLE#	AGE					
	1		EF/1 EF/1	1		BT BT	165 81						ale		0-1 0-2	3+ 1+					
		U	EF/ I	+ '		БІ	01					30	ale	10	0-2	17					
							1	1													



Unnamed tributary to Keily Creek
Site 10: View upstream from bottom of site.
(Roll BP2 - Exp 13A; CD 1 - Im 40)



Unnamed tributary to Keily Creek Site 10: View downstream from top of site. (Roll BP2 - Exp 15A; CD 1 - Im 42)



Unnamed tributary to Keily Creek Site 10: Aerial view upstream from mouth. (Roll BP3 - Exp 5; CD 1 - Im 43)



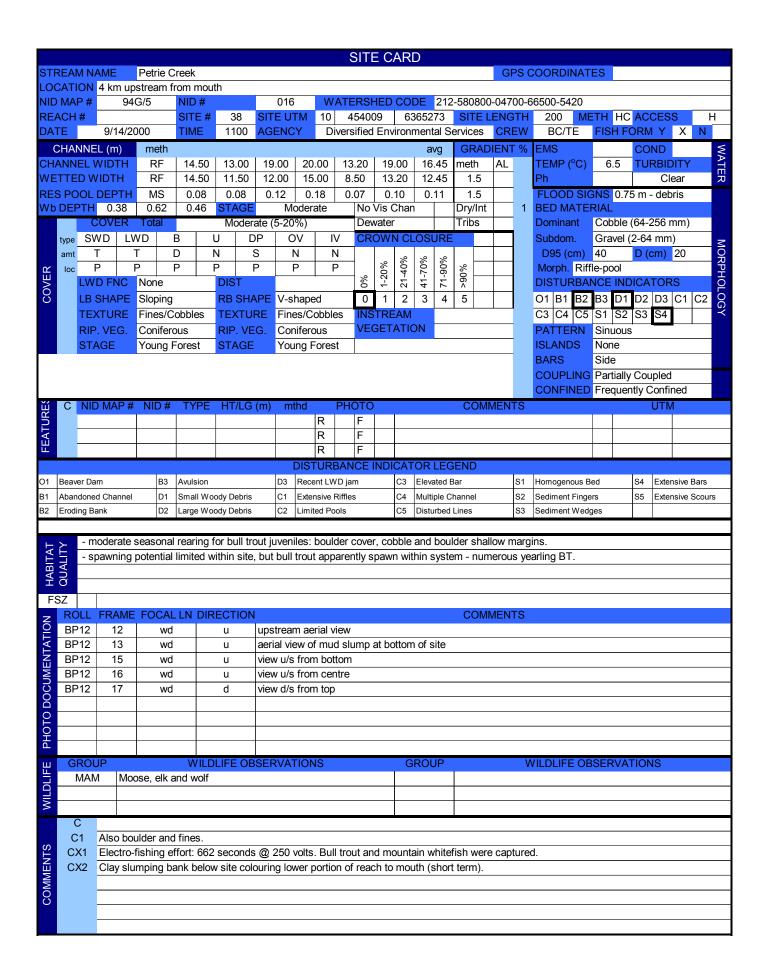
Unnamed tributary to Keily Creek
Site 10: Aerial view of 40 m falls upstream of site.
(Roll BP2 - Exp 12A; CD 1 - Im 44)

## **APPENDIX XXII**

#### PETRIE CREEK

(212-580800-04700-66500-5420)

## **Sample Site 38**



	FISH COLLECTION FORM																				
STF	REAN	ΛΝΑ	AME	Pet	rie C	reek									L/	AKE	Х	STRE	AM	WE	ETLAND
LOC	ATI	ON		4 kr	n up	stream fr	om mouth					WATE	ERSH	ED CODE	2	12-580	800-0	04700	-6650	0-5420	
WA	TER	BOD	DY ID					ILP MA	Р		ILP	#		SITE/	LAK	E CAF	RD AT	TAC	HED	ΧY	N
PRO	JEC	CT IE	)	E	Besa	-Prophet	Overview	REACH	l #		SIT	E#	38	FISH	PER	RMIT #			SC20	00-021	
DAT	F		9/1	4/200		- i -	9/14/2000	AGENO	:Y	Diversifi	ed Enviro	onmental	Servi	ices C	REV	N	B	C/TE		RE-SAI	MPLF
<i>D</i> / (1	_		0/ 1	1/200		10	AGENOT			Diversiii	CG EIIVII	AM CONDITION			•		O/ 1 L		TKE O/ ti	VIII L.L.	
	SI	ITE #	# N	NID MAP#		NID#	SITE	SITE UTM		METHOD/NO.					_			CON	/MEN	TS	
SITE / METHOD												TEMP	CO		В						
島		38		94G/5		016 10.4540		09.6365273		EF	1	6.5		С							
M																					
E/																					
듣																					
U)																					
	SITI	F #	MTD	/NO	H/P	SPECI	ES STAGE	AGE	TO:	TAL NO	MINT	N (mm)	MAX	XX LN (mm)		FISH A	CT		COI	MMENTS	3
	38	_	FF/1		1	BT	Juv	/\CL	10	12		6	1017 (7	119	, .	Rearin			001	VIIVILIVI	J
FISH SUMMARY	38		EF		1	MW	NS			3		75		245			-				
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$\leq$																					
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S																					
正																					
8														NET	/TR	AP SF	PECIF	ICAT	IONS		
GEAR SPECS	С	SITI	E#M	D/NO	H/P	DATE	IN TIME	IN DA	TE C	OUT TIM	/E OUT	NET T	YPF	LENGTH	1	DEPT	Н	MESH	I SIZE	SET	HAB
S		<u> </u>	_ //	5/110		27112		27.		70.						<i>-</i>		0.	. 0.22	02.	
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		0.7		- "							R SPEC			<b>51101</b>		- 1		D1 05			Luni
	С	SIII	Ŀ#[M	D/NO H/P TIME IN		IN TIME C	IME OUT EFS						ENCL \		OLT FREQ		PLSE	=	MAKE	MDL	
	38											40		_				=:			
		38	8 E	F/1	1	1105	112	7	662		200	12.4	1	0	250	6	60	Fixed	d (	Coffelt	Mk X
S	С	38	8 E	F/1	1	1105	112	7	662		200	12.4	1	0	250	6	80	Fixed	) t	Coffelt	Mk X
ENTS	С	38	8 E	EF/1	1	1105	5 112	7	662		200	12.4	1	0	250	6	80	Fixed	d (	Coffelt	Mk X
IMENTS	С	38	8 E	F/1	1	1105	5   1127	7	662		200	12.4	1	0	250	6	30	Fixed	) [	Coffelt	Mk X
OMMENTS	С	38	8   E	F/1	1	1105	5   112	7	662		200	12.4	1	0	250	6	60	Fixed	) t	Coffelt	Mk X
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	SITI	E#	MD/N0	D H/P		PECIES	LENGTH (mm) 119	WEIG	ND HT	IVIDU	AL FISI	H DATA	A TR :	AGE SAMPLE 38-1		AGE 1+	60				Mk X
	SITI	E#	MD/N0 EF/1 EF/1	D H/P		PECIES BT BT	LENGTH (mm) 119 116	WEIG	ND HT	IVIDU	AL FISI	H DAT	A TR sale cale	AGE SAMPLE 38-1 38-2		AGE 1+ 1+	60				Mk X
	SITI 38	E#	MD/NO EF/1 EF/1 EF/1	D H/P		PECIES BT BT BT	LENGTH (mm) 119 116 75	WEIG	ND HT	IVIDU	AL FISI	H DAT	A TR cale cale cale	AGE SAMPLE 38-1 38-2 38-3		AGE 1+ 1+	60				Mk X
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	SITI 38 38 38 38	E# 88 88 88 88 88 88 88 88 88 88 88 88 88	MD/N0  EF/1  EF/1  EF/1  EF/1  EF/1	D H/P 1 1 1 1 1		BT BT BT BT BT	LENGTH (mm) 119 116 75 73 72	WEIG	ND HT	IVIDU	AL FISI	H DAT	A TR	AGE SAMPLE 38-1 38-2 38-3 38-4 38-5		AGE 1+ 1+ 1+ 1+			COMN	MENTS	Mk X
	38 38 38 38 38	E# 88 88 88 88 88 88 88 88 88 88 88 88 88	MD/N0  EF/1  EF/1  EF/1  EF/1  EF/1	D H/P 1 1 1 1 1 1 1	SP	BT BT BT BT BT BT	LENGTH (mm) 119 116 75 73 72 68	WEIG	ND HT	IVIDU	AL FISI	H DAT	A TR cale cale cale cale cale cale cale	AGE SAMPLE 38-1 38-2 38-3 38-4 38-5 38-6		AGE 1+ 1+ 1+ 1+				MENTS	Mk X
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	SITTI 38 38 38 38 38 38	E# 88 88 88 88 88 88 88 88 88 88 88 88 88	MD/N0 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	D H/P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SP	BT BT BT BT BT BT MW MW	LENGTH (mm) 119 116 75 73 72 68 245 233	WEIG	ND HT	IVIDU	AL FISI	H DAT/ JIR	A TR   cale cale cale cale cale cale cale cale	AGE SAMPLE 38-1 38-2 38-3 38-4 38-5 38-6 38-7 38-8		AGE 1+ 1+ 1+ 1+ - 3+	poor		COMM	MENTS	Mk X
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	SITI 388 388 388 388 388 388 388 388 388 38	E# 88 88 88 88 88 88 88 88 88 88 88 88 88	MD/N0 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	D H/P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SP	BT BT BT BT BT MW MW MW BT	LENGTH (mm) 119 116 75 73 72 68 245 233 175 89	WEIG	ND HT	IVIDU	AL FISI	H DAT/ JIR	A TR   cale cale cale cale cale cale cale cale	AGE SAMPLE 38-1 38-2 38-3 38-4 38-5 38-6 38-7 38-8		AGE 1+ 1+ 1+ 1+ - 3+	poor	scale	COMM	MENTS	Mk X
	383 383 383 383 383 383 383 383	E# 88 88 88 88 88 88 88 88 88 88 88 88 88	MD/N0 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	) H/P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SP	BT BT BT BT BT BT MW MW	LENGTH (mm) 119 116 75 73 72 68 245 233 175	WEIG	ND HT	IVIDU	AL FISI	H DAT/ JIR	A TR   cale cale cale cale cale cale cale cale	AGE SAMPLE 38-1 38-2 38-3 38-4 38-5 38-6 38-7 38-8		AGE 1+ 1+ 1+ 1+ - 3+	poor	scale	COMM	MENTS	Mk X
	SITI 388 388 388 388 388 388 388 388 388 38	E# 88 88 88 88 88 88 88 88 88 88 88 88 88	MD/N0 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	) H/P  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SP	BT BT BT BT BT MW MW MW BT	LENGTH (mm) 119 116 75 73 72 68 245 233 175 89	WEIG	ND HT	IVIDU	AL FISI	H DAT/ JIR	A TR   cale cale cale cale cale cale cale cale	AGE SAMPLE 38-1 38-2 38-3 38-4 38-5 38-6 38-7 38-8		AGE 1+ 1+ 1+ 1+ - 3+	poor	scale	COMM	MENTS	Mk X
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	SITI 38 38 38 38 38 38 38 38 38 38 38 38 38	E#	MD/N0 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	H/P 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SP	BT BT BT BT BT BT MW MW MW BT BT BT	LENGTH (mm) 119 116 75 73 72 68 245 233 175 89 80 89	WEIG	ND HT	IVIDU	AL FISI	H DAT/ JIR	A TR   cale cale cale cale cale cale cale cale	AGE SAMPLE 38-1 38-2 38-3 38-4 38-5 38-6 38-7 38-8		AGE 1+ 1+ 1+ 1+ - 3+	poor	scale	COMM	MENTS	Mk X
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Petrie Creek
Site 38: View upstream from bottom of site.
(Roll BP12 - Exp 15; CD 3 - Im 197)



Petrie Creek
Site 38: View upstream from centre of site.
(Roll BP12 - Exp 16; CD 3 - Im 198)



Petrie Creek
Site 38: Aerial view of mud slump at bottom of site.
(Roll BP12 - Exp 13; CD 3 - Im 200)



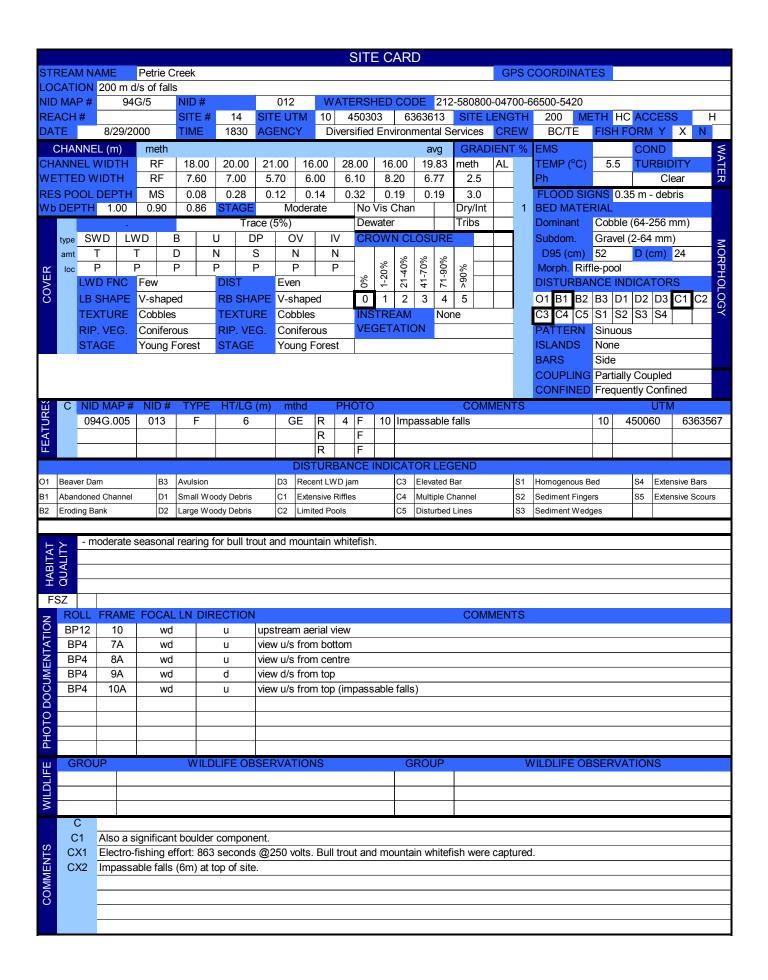
Petrie Creek Site 38: Upstream aerial view. (Roll BP12 - Exp 12; CD 3 - Im 201)

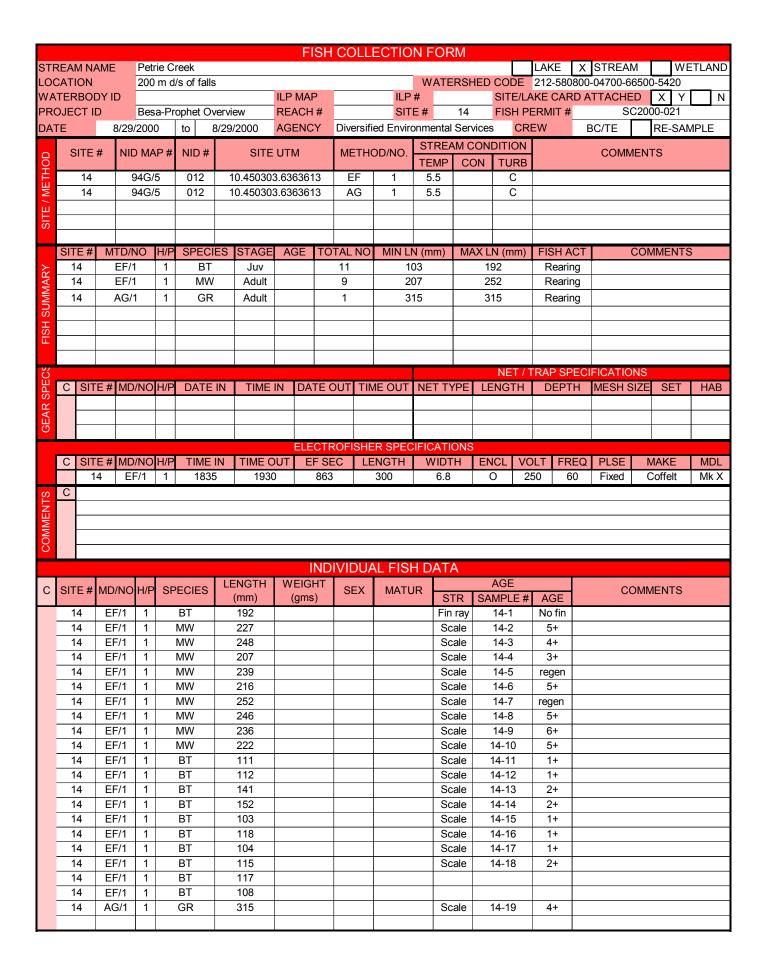
# **APPENDIX XXIII**

#### PETRIE CREEK

(212-580800-04700-66500-5420)

# Sample Site 14







Petrie Creek
Site 14: View upstream from bottom of site.
(Roll BP4 - Exp 7A; CD 1 - Im 65)



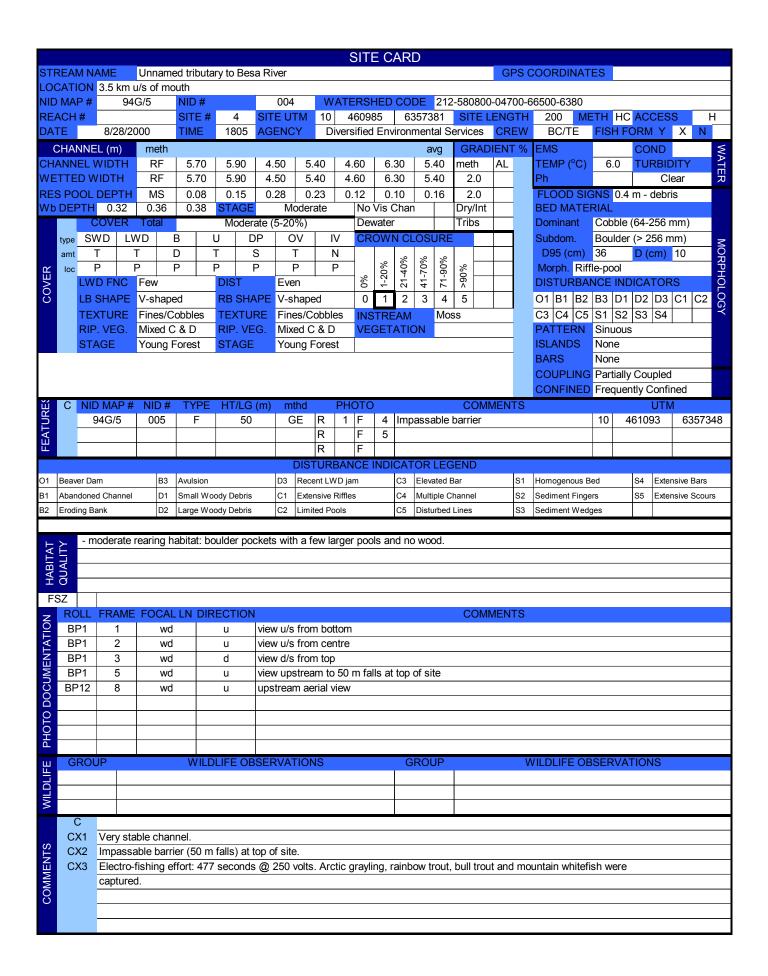
Petrie Creek
Site 14: View upstream from top of site (impassable falls).
(Roll BP4 - Exp 10A; CD 1 - Im 68)

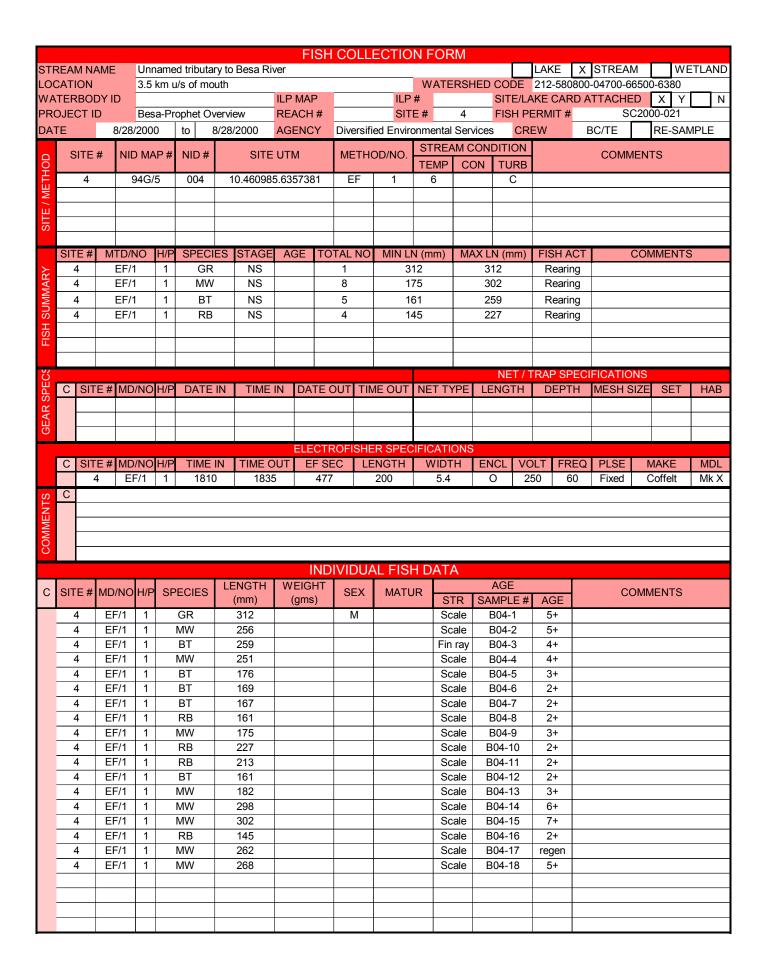
## **APPENDIX XXIV**

#### UNNAMED TRIBUTARY TO BESA RIVER

(212-580800-04700-66500-6380)

## **Sample Site 4**







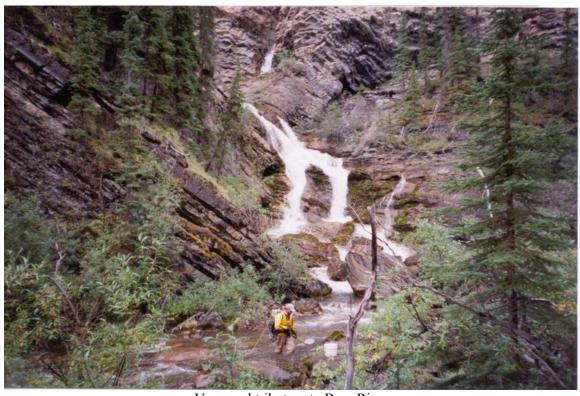
Unnamed tributary to Besa River Site 4: View upstream from bottom of site. (Roll BP1 - Exp 1; CD 1 - Im 16)



Unnamed tributary to Besa River Site 4: View downstream from top of site. (Roll BP1 - Exp 3; CD 1 - Im 18)



Unnamed tributary to Besa River Site 4: Upstream aerial view. (Roll BP12 - Exp 8; CD 1 - Im 9)



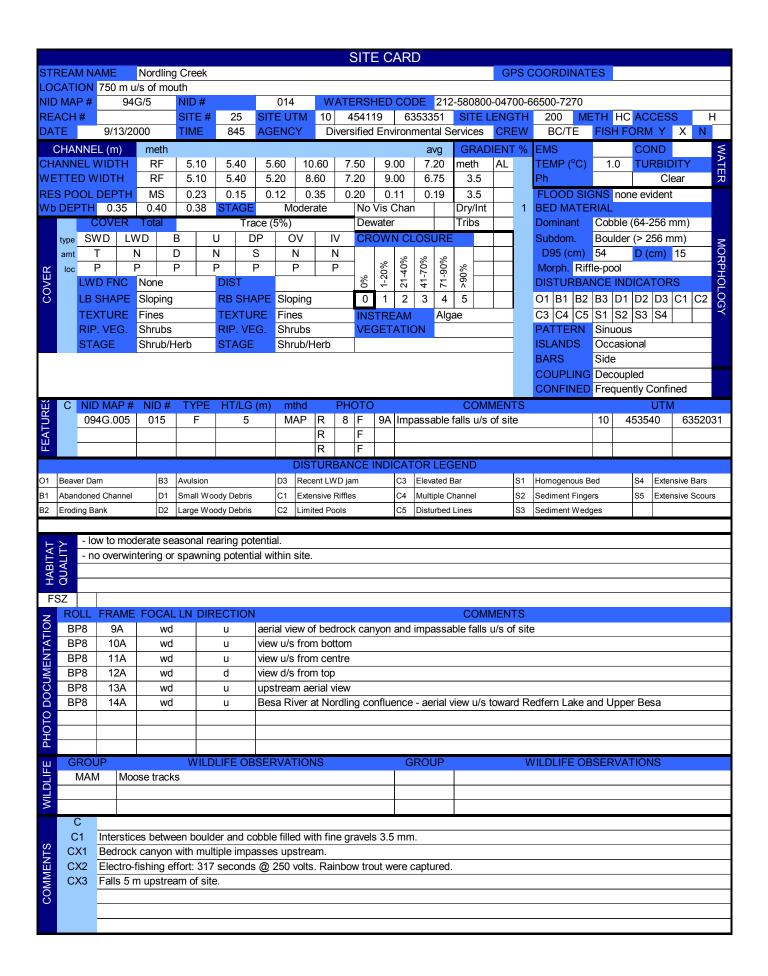
Unnamed tributary to Besa River Site 4: View upstream to 50 m falls at top of site. (Roll BP1 - Exp 5; CD 1 – Im 19)

# **APPENDIX XXV**

#### **NORDLING CREEK**

(212-580800-04700-66500-7270)

# **Sample Site 25**



									FISH	COLL	ECTIO	N FOR	RM						
		M NAM	ΙE			Creek									LAŁ		STREAM		ETLAND
	CATI			750	m u	/s of mou	ıth		4.5				RSHE					5500-7270	
		BODY	טו	Doo		anhat O	·on iou	ILP M			ILP SIT		25	FISH I			TTACHE	D X Y C2000-021	N
DAT		טו וכ	9/13/			ophet Ov	9/13/2000	AGEN		Divorcifi	ed Enviro				REW	_	BC/TE	RE-SAI	MDLE
DA			9/13/	2000	,	to 9	1/ 13/2000	AGLI	NC I	Diversin	eu Liiviit				_		SC/TE	RE-SAI	VIPLE
Q	S	ITE#	NID MAP #		P#	NID#	SIT	E UTM		METH	OD/NO.			ONDITION	_		COMM	ENTS	
SITE / METHOD		25		94G/	5	014	10.4541	454119.6353351			1	TEMP 1.0	COI	N TURE	3				
MET		23	040/0		_	014	10.4341	10.454119.05555		EF		1.0							
] / E																			
SITI																			
•																			
	SIT	E#	MTD/N	10	H/P	SPECII	ES STAG	E AGE	TO	TAL NO	MIN LI	V (mm)	MAX	KLN (mm		SH ACT	(	COMMENTS	3
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MAI																			
M																			
FISH SUMMARY								4							1				
-IS								_											
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ý														NET	TRA	P SPEC	FICATIO	NS	
GEAR SPECS	С	SITE:	# MD	/NO	H/P	DATE	IN TIME	IN L	ATE (	AIT TUC	/IE OUT	NET TY	/PF	LENGTH		EPTH	MESH S		HAB
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≅AF																			
GE																			
								E	LECTF	ROFISHE	R SPEC	IFICATION	ONS						
	С	SITE							EF SE		NGTH	WIDT	H I		OLT.	FREQ	PLSE	MAKE	MDL
		25	EF	-/1	1	0850	09	10	317	7	200	6.8		0	250	60	Fixed	Coffelt	Mk X
TS	С																		
ΛΕΝ																			
COMMENTS																			
S																			
									IND	IVIDU	AL FISH	1 DAT	Д						
С	SIT	E# M	D/NO	H/P	SP	PECIES	LENGTH	WEI	GHT	SEX	MATL	IR .		AGE			CC	MMENTS	
)				1 1/1			(mm)	(gr	ns)	OLX	WATC	S	_	SAMPLE:		GE		ZIVIIVILIVI O	
	2		EF/1	1		RB	161						ale	25-1		+			
	2		EF/1	1		RB	114	+					ale	25-2		+			
	2		EF/1 EF/1	1		RB RB	99 112	+					ale	25-3 25-4		+			
		J   [	_1 / 1			יעט	114	+				30	aic	20-4	+-'	-			
															- 1				



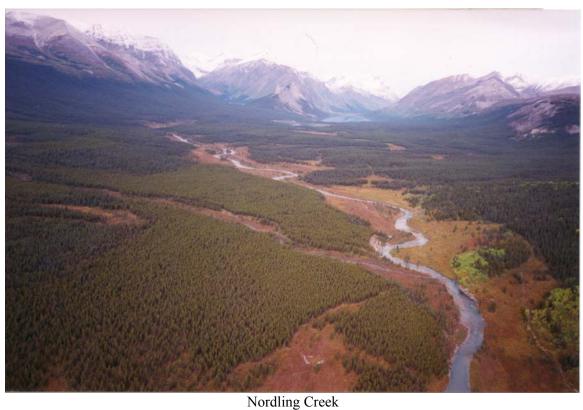
Nordling Creek
Site 25: View upstream from bottom of site.
(Roll BP8 - Exp 10A; CD 2 - Im 121)



Nordling Creek Site 25: Upstream aerial view. (Roll BP8 - Exp 13A; CD 2 – Im 124)



Nordling Creek
Site 25: Aerial view of bedrock canyon and impassable falls upstream of site.
(Roll BP8 - Exp 9A; CD 2 - Im 125)



Site 25: Besa River at Nordling confluence - aerial view upstream towards Redfern Lake.

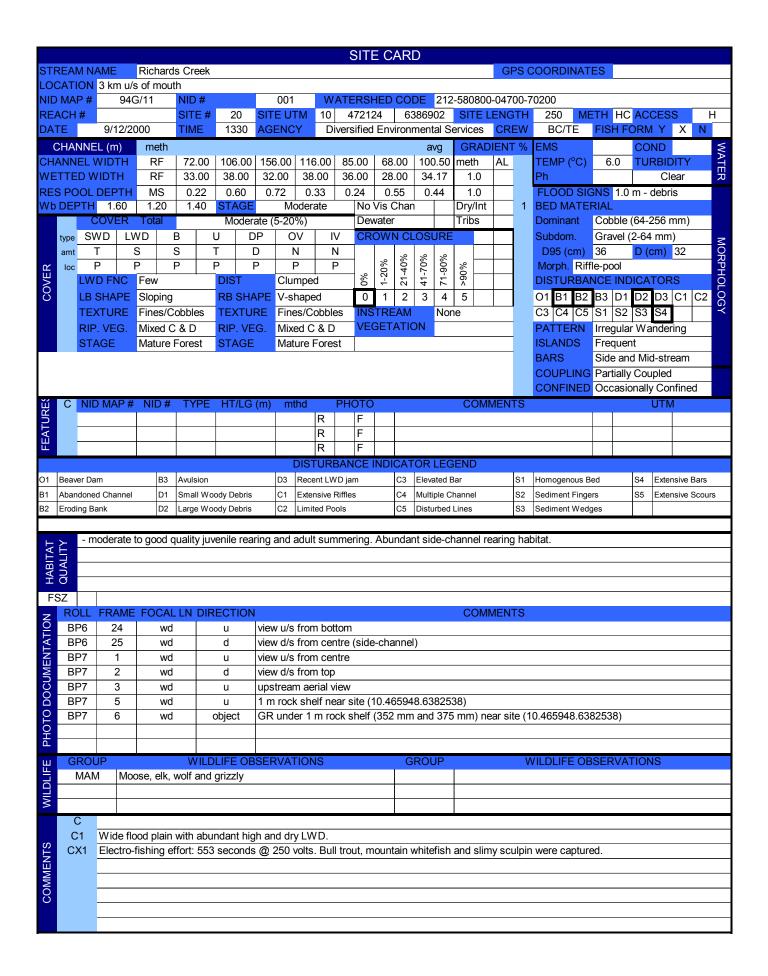
(Roll BP8 - Exp 14A; CD 2 - Im 126)

# **APPENDIX XXVI**

### RICHARDS CREEK

(212 - 580800 - 04700 - 70200)

### **Sample Site 20**



								H	ISH	COLL	FCHO	N FOF	RM								
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WA <sup>°</sup>	TER	BOD	DY ID					ILP MAI	Р		ILP	#		SITE	/LAI	KE CA	RD A	TTACH	HED	Х Ү	N
PRO	DJE	CT IE	)	Bes	a-Pr	ophet Ov	erview	REACH	l #		SIT	E#	20	FISH	PE	RMIT	#		SC20	00-021	
DAT	F		9/1	2/200	_		/12/2000	AGENC	Y:	Diversifi	ed Enviro	nmenta	Servi	ices (	CRE	W	F	BC/TE		RE-SAN	/PLF
D/ ( )	_		J, .	2/200	_	10	7 12/2000	, tollite	_	Bivoroni	od Enviro				_			30/ TE		I CL O/ (II	/II LL
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SITE / METHOD												TEMP	CO		B						
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ME																					
Ε/																					
듣																					
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M					1		Adult									Rea					
$\leq$	2	0	EF	-/1	1	CCG	Adult			1	1:	22		122		Rea	ring				
FISH SUMMARY																					
동																					
Ш															T						
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S														<u>NET</u>	/ T	RAP S	PECI	IFICATI	ONS		
GEAR SPECS	С	SITE	E#M	D/NO	H/P	DATE	IN TIME	IN DA	TE C	OUT TIM	/IE OUT	NET T	YPE	LENGT		DEF		MESH		SET	HAB
S																					
AF																					
B																					
								ELE	СТЕ	OFIGUE	R SPEC	TEICATI	ONG		_						
- 1	С	CITI	E#M	D/NO	LL/D	TIME	N TIME C		F SE		NGTH	WIDT		ENCL	VOI	TE	REQ	PLSE	-	ИАКЕ	MDL
	C	20		EF/1	1	1335			553		250	34.2		O	25		60	Fixed		Coffelt	Mk X
	_	20	U	⊑F/ I	'	1333	1417	′	555		230	34.2	<u>-</u>	U	20	U	00	FIXEO		Jonen	IVIK A
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	CIT	- #T	MD/N		e e	DECIES .	LENGTH	WEIG	_				A	AGE						MENTS	
C	SIT	E#	MD/N	O H/P	SF	PECIES	LENGTH (mm)		HT	IVIDU <i>A</i> SEX	AL FISI MATU	JR		AGE SAMPLE		AGE		(	COMN	MENTS	
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		0		1			(mm)	WEIG	HT			JR S	TR	SAMPLE	#			(	COMN	MENTS	
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	2 2 2 2 2 2 2 2 2	0 0 0 0 0 0 0 0 0	EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	1 1 1 1 1 1 1 1		MW MW MW MW MW MW MW BT BT	(mm) 272 257 153 290 261 263 283 286 202	WEIG	HT			Si	cale cale cale cale cale cale cale cale	20-1 20-2 20-3 20-4 20-5 20-6 20-7 20-8	: #	6+ 5+ 2+ 6+ 6+ 5+ 6+ 3+			COMM	MENTS	
	2 2 2 2 2 2 2 2 2	0 0 0 0 0 0 0 0 0	EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	1 1 1 1 1 1 1 1		MW MW MW MW MW MW MW BT BT	(mm) 272 257 153 290 261 263 283 286 202	WEIG	HT			Si	cale cale cale cale cale cale cale cale	20-1 20-2 20-3 20-4 20-5 20-6 20-7 20-8	#	6+ 5+ 2+ 6+ 6+ 5+ 6+ 3+			COMM	MENTS	
	2 2 2 2 2 2 2 2 2	0 0 0 0 0 0 0 0 0	EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	1 1 1 1 1 1 1 1		MW MW MW MW MW MW MW BT BT	(mm) 272 257 153 290 261 263 283 286 202	WEIG	HT			Si	cale cale cale cale cale cale cale cale	20-1 20-2 20-3 20-4 20-5 20-6 20-7 20-8	#	6+ 5+ 2+ 6+ 6+ 5+ 6+ 3+			COMM	MENTS	



Richards Creek
Site 20: View downstream from top of site.
(Roll BP7 - Exp 2; CD 2 – Im 100)



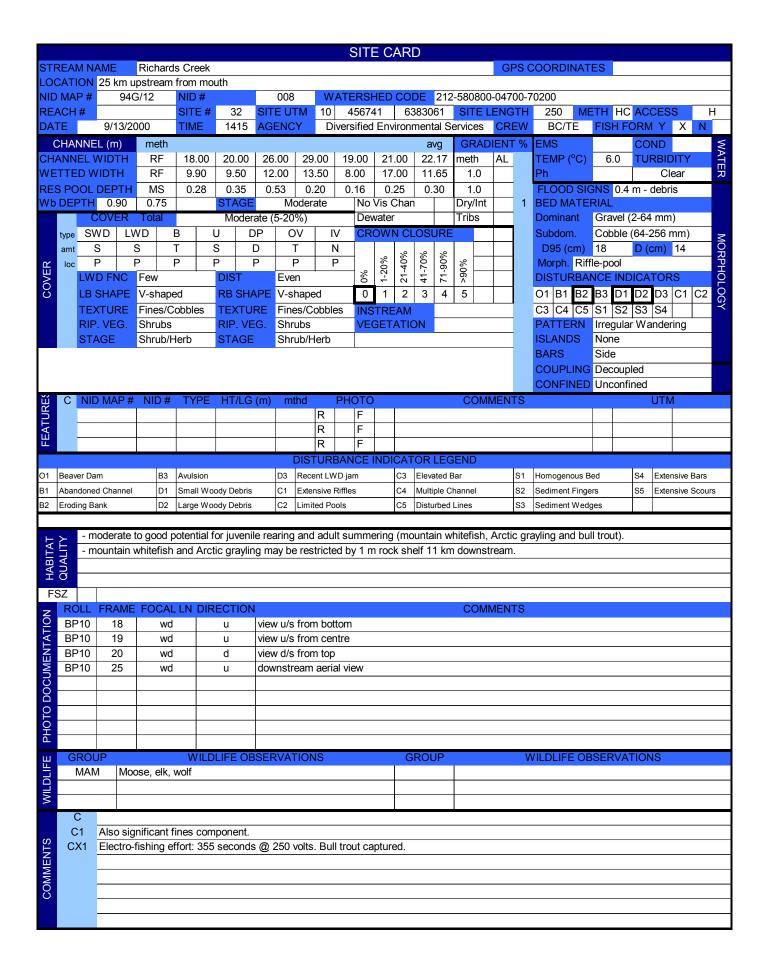
Richards Creek
Site 20: Upstream aerial view.
(Roll BP7 - Exp 3; CD 2 – Im 101)

# **APPENDIX XXVII**

### RICHARDS CREEK

(212 - 580800 - 04700 - 70200)

### **Sample Site 32**



									FI	SH	COLL	ECTIO	N FOF	RM										
STF	REA	M NA	ME	Ric	hards	s Creek											LAK	Έ	X	STRE	:AM		WE٦	ΓLAND
LOC	ATI	ON		25 I	km u	pstream	from m	outh					WATE	ERSH	ED (	CODE	212	-5808	300-0	04700	-7020	0		
WA	TER	BOD	Y ID						ILP MAF	>		ILP	#			SITE/L	AKE (	CAR	D AT	TACI	HED	Х	Υ	N
PRO	)JE(	CT ID	)		Besa	a-Prohet	Overvie	ew	REACH	#		SIT	E#	32		FISH P	ERM	IT#			SC20	00-02	1	
DAT	F		9/1	3/200	n	to 9	9/13/20		AGENC		Diversifi	ed Enviro	onmenta	Servi	ices	CR	EW		B	C/TE		RE-S	SAME	PLF
D/ (I	_		5/ 1	0/200	•	10   0	# 10/20	00	7102110		Bivoroiii	ou Eliviio					T			0/ T.L.		IVE	<i>77</i> (1V11	
О	S	ITE#	# N	ID MA	P#	NID#		SITE	UTM		METH	OD/NO.	STRE		_		4			CON	имеN	TS		
유													TEMP	CO	N	TURB								
ᇤ		32		94G/	12	800	10.4	456741	1.638306	31	EF	1	6.0			С								
SITE / METHOD																								
Ш																								
S																								
	SIT	E#	MTD	/NO	H/P	SPECI	ES ST	TAGE	AGE	TO	TAL NO	MIN LI	V (mm)	MA	X LN	1 (mm)	FIS	SH AC	CT		CO	MMEN	ITS	
≿	3	2	EF	/1	1	BT	Ī	NS			1	1	76		17	6	R	earin	g					
IAF																								
$\leq$																								
SU																								
FISH SUMMARY																								
F																								
ĸ																NET /	TRAF	SPE	ECIE	ICAT	IONS			
GEAR SPECS	С	SITE	E# M	D/NO	H/P	DATE	IN .	TIME I	IN DA	TE (	OUT TIN	IE OUT	NET T	YPE	LEI	NGTH		EPTH			I SIZE		тТ	HAB
S																							-	
AF																								
GE																								
									ELE	СТБ	OFISHE	R SPEC	IFICATI	ONS										
	С	SITE	E# M	D/NO	H/P	TIME	INI T	IME O		F SE		NGTH	WIDT		EN	CL V	OLT	FRE	-0	PLSE		MAKE		MDL
	Ŭ	32		EF/1	1	1418		1435		355		250	11.6		0		250	60		Fixed		Coffelt		Mk X
"	С	-								-											_	00		
Ę																								
Æ																								
JMI																								
COMMENTS																								
COMIN										ND	IVIDU <i>A</i>	AL FISH	H DAT	A										
	OIT	- "l	100		0.0	VE0/50	LENG	GTH	WEIGI		IVIDU <i>A</i>			A	<i>F</i>	\GE					0014			
COMIN	SIT	E# [	MD/N	O H/P	SP	ECIES	LEN(		WEIGI	НТ	VIDU/ SEX	AL FISH MATU	IR				: AC	SE			СОМІ	MENT	S	
	SIT 3		MD/N(	O H/P		ECIES BT	(mı	m)		НТ			JR S		SAN	AGE MPLE #	: AC		poor				S	
								m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	: AC		poor		COMI samp		S	
							(mı	m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	: AC		poor				S	
							(mı	m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	: AC		poor				S	
							(mı	m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	AC		poor				S	
							(mı	m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	AC		poor				S	
							(mı	m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	AC		poor				S	
							(mı	m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	AC		poor				S	
							(mı	m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	AG		poor				S	
							(mı	m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	AG		poor				S	
							(mı	m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	A		poor				S	
							(mı	m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	AG		poor				S	
							(mı	m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	AG		poor				S	
							(mı	m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	AG		poor				S	
							(mı	m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	AG		poor				S	
							(mı	m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	AGG		poor				S	
							(mı	m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	A		poor				S	
							(mı	m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	A		poor				S	
							(mı	m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	A		poor				S	
							(mı	m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	ACC		poor				S	
							(mı	m)	WEIGI	НТ			JR S	TR	SAN	MPLE#	ACC		poor				S	



Richards Creek
Site 32: View upstream from bottom of site.
(Roll BP10 - Exp 18; CD 3 - Im 163)



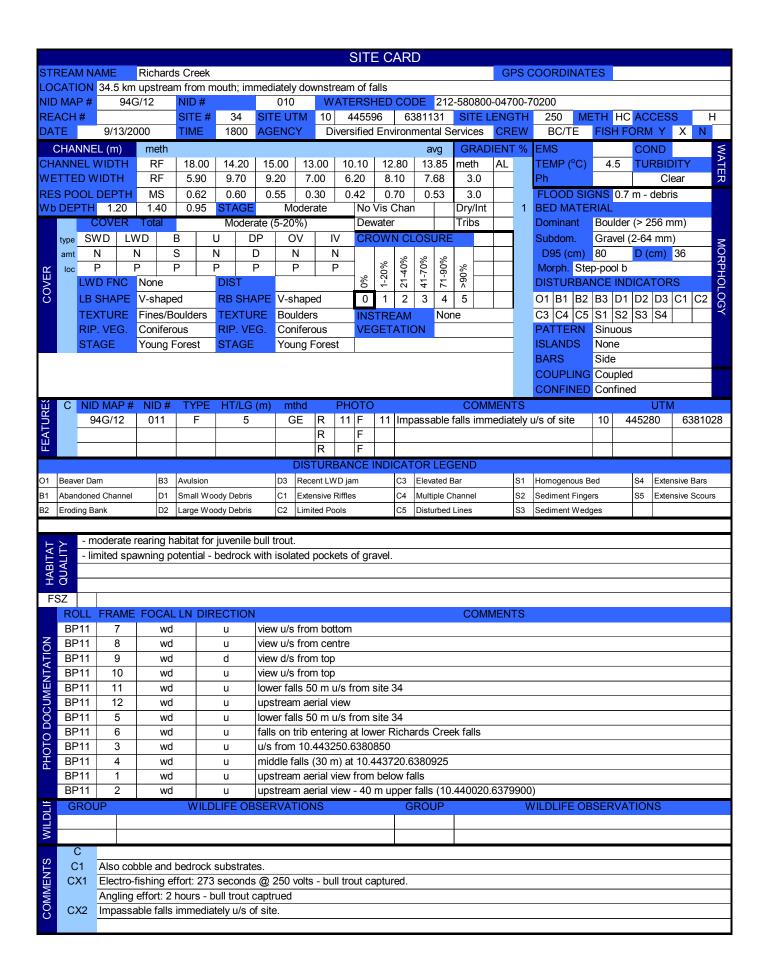
Richards Creek Site 32: Downstream aerial view. (Roll BP10 - Exp 25; CD 3 - Im 166)

# **APPENDIX XXVIII**

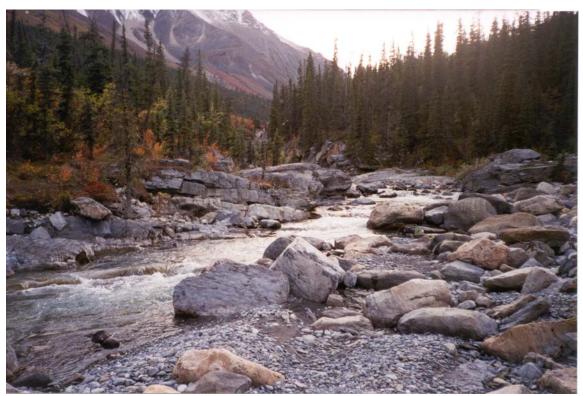
### **RICHARDS CREEK**

(212 - 580800 - 04700 - 70200)

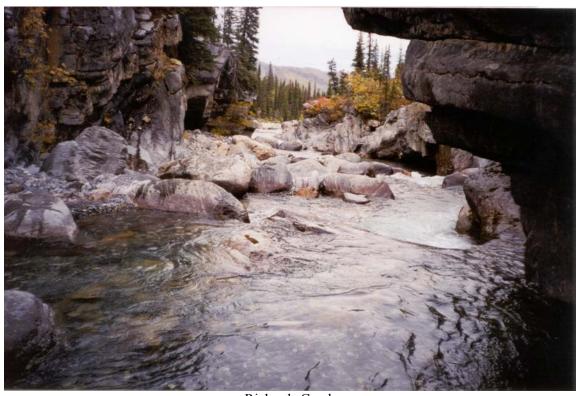
### **Sample Site 34**



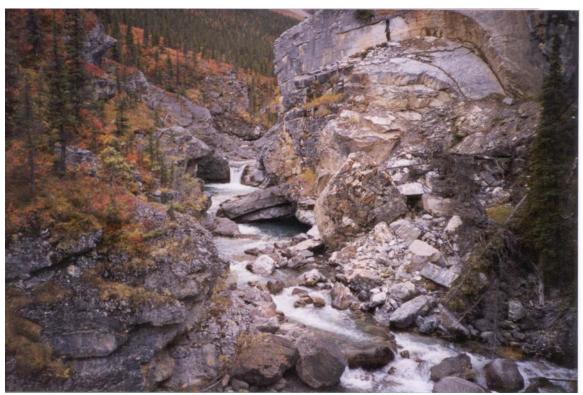
								FI	SH	COLL	ECTIO	N FO	RM								
		M NAN	ИE			s Creek										LAKE		STREA			ETLAND
LOC				34.5	5 km	upstrear	n from mouth						ERSH					0-04700-7			
		BODY	/ ID					ILP MAF			ILP							TTACHE		XY	N
		CT ID			_	, i -		REACH			SIT		34		FISH PE		_			00-021	
DAT	Έ		9/13	/2000	)	to 9	9/13/2000	AGENC	Y	Diversifi	ied Envird	onmenta	l Ser	vices	CRE	EW	E	BC/TE		RE-SAN	ЛРLE
)	V	ITE#	NII	D MA	P#	NID#	SITE	LITM		METH	OD/NO	STRE	AM C	CONI	DITION			COMN	/ENI	rs	
IOD	3	11 🗆 #	INIL	רואו כ	" "	INID#	SIIL	OTIVI		IVILITIO	JU/NO.	TEMP	CC	NC	TURB			COMIN	/ILIN	3	
SITE / METHOD		34	9	94G/1	2	010	10.445596	3.638113	1	EF	1	4.5			С						
ME		34	9	94G/1	2	010	10.445596	3.638113	1	AG	1	4.5			С						
E/																·					
SII																					
									_												
	SIT		MTD/I		H/P			AGE	TO	TAL NO		N (mm)	MA		N (mm)	FISH			CON	MENTS	}
RY	3		EF/		1	BT	NS			4		34		31		Rea					
SUMMARY	3	4	AG/	1	1	ВТ	Adult			3	40	00	-	52	25	Spav	vning				
MU																					
lS l																					
FISH													-								
т.																					
0)															NET / T		PDEC	IFICATIO	MIC		
GEAR SPECS	C	CITE	# 14	VNIO	LI/D	DATE	IN TIME	IN DA		OUT TIN	ME OUT	NET T	VDE		NET / I	DEF		IFICATION IN SHIP		CET	LIAD
SP	С	34	# MD	)/NO G/1	п/г 1	3678			678		2020	INE I I	TPE	LE	NGIH	DEF	1111	IVIESTI		SET	HAB
AR			— ^`	0/1		3070	1020	, ,	070		2020										<del>                                     </del>
GE			+																		<del>                                     </del>
								ELE	CTF	ROFISHE	R SPEC	LIFICAT	IONS								
	С	SITE	# MD	)/NO	H/P	TIME	IN TIME O		F SE		NGTH	WID.		EN	ICL VO	I.T F	REQ	PLSE	N	//AKE	MDL
		34		F/1	1	1805			273		250	7.7					60	Fixed		Coffelt	Mk X
S	С																		-		
COMMENTS																					
ME																					
ON																					
O																					
										IVIDUA	AL FISH	I DAT	Α								
С	SIT	E#N	/ID/NO	H/P	SF	PECIES	LENGTH	WEIGH		SEX	MATL	JR			AGE			C	OMN	IENTS	
							(mm)	(gms	)			S	TR		MPLE #	AGE					
	3		AG/1	1		BT	400			M	Spawn		n ray		34-1	8+					
	3		AG/1	1		BT	525			M	Spawn		n ray	l	34-2	9+					
	3		AG/1	1	-	BT	435			M		ing Fir			34-3	7+					
	3		EF/1 EF/1	1	<u> </u>	BT BT	315 142			M	Spawn	-	n ray cale		34-4 34-5	5+ -	noc	or scale s	omnl		
	3		EF/1	1	<u> </u>	ВТ	137						cale		34-6	2+	poc	or scale s	ampi		
	3		EF/1	1	-	BT	84				<del>                                     </del>		cale		34-7	1+					
	<u> </u>	_	L171	'		ы	04					- 3	cale		34-7						
											-						-				
											<del>                                     </del>										
											<del>                                     </del>										
																				-	-
											1			l							



Richards Creek
Site 34: View upstream from centre of site.
(Roll BP11 - Exp 8; CD 3 - Im 172)



Richards Creek
Site 34: View downstream from top of site.
(Roll BP11 - Exp 9; CD 3 - Im 173)



Richards Creek
Site 34: 5 m impasse 50 m upstream from site.
(Roll BP11 - Exp 11; CD 3 - Im 176)



Site 34: Upstream aerial towards 5 m impasse 50 m upstream from site.

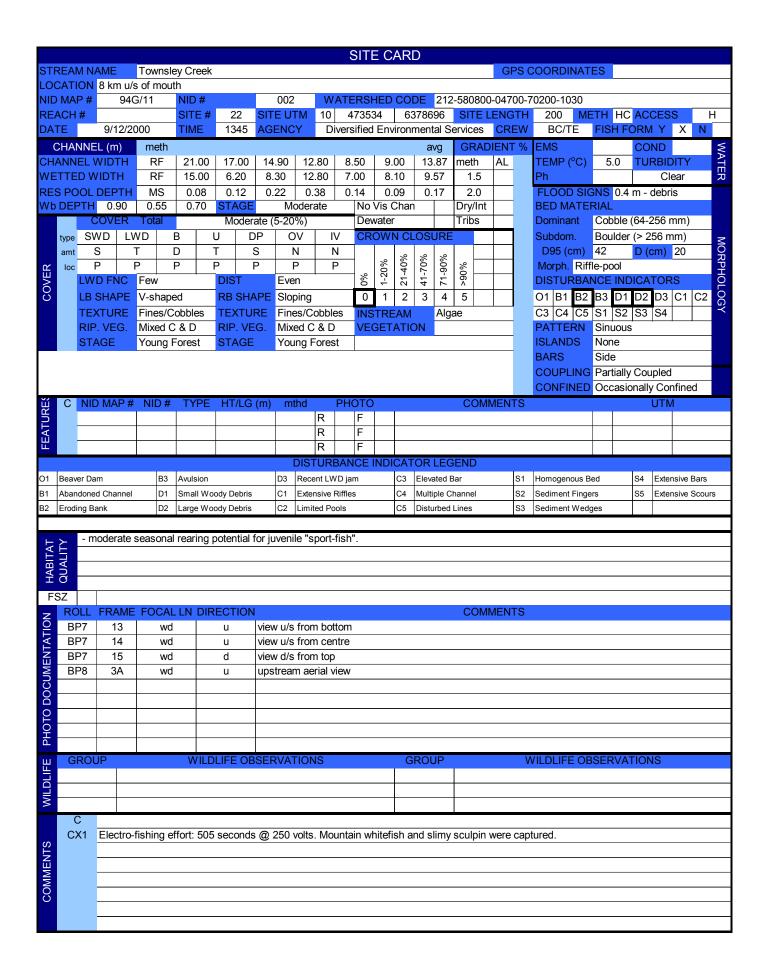
(Roll BP11 - Exp 5; CD 3 - Im 177)

# **APPENDIX XXIX**

### **TOWNSLEY CREEK**

(212-580800-04700-70200-1030)

### **Sample Site 22**



									FI	SH	COLL	EC110	N FOF	RM									
STF	REA	M NA	AME	To	wnsle	ey Creek											LAŁ	Œ >	( STI	REA	M	W	ETLAND
LOC	CATI	ON		8 k	m u/s	s of mout	h						WATE	RSH				2-58080			_		
WA	TER	BOE	DY ID						ILP MAP	Ρ		ILP	#			SITE/L	AKE	CARD	ATTA	CHE	ĒD	XY	N
PRO	)JE(	CT IE	)	Ве	sa-Pr	ophet O	erview/		REACH	#		SIT	E#	22		FISH F	PERM	1IT #		S	C200	0-021	
DAT	Έ		9/	12/200	00	to 9	9/12/2000	0	AGENC	Υ	Diversif	ied Envir	onmenta	l Serv	/ices	CF	REW		BC/T	E		RE-SA	MPLE
	0	.T.E.	" I,	UD M	AD #	NUD #	-	).TE			NACTU	0D/N0	STRE	АМ С	ONE	DITION			0	O 1 41	45.17	-0	
ОО	S	ITE :	#  '	NID M	AP#	NID#		SIIE	UTM		MEIH	OD/NO.	TEMP	CC	NC	TURB			C	OIVIIV	/ENT	5	
Ĕ		22		94G/	11	002	10.47	3534	1.637869	96	EF	1	5.0			С							
ME																							
/ E																							
SITE / METHOD																							
•,																							
	SIT	Ε#	MTI	D/NO	H/P	SPECI	ES STA	AGE	AGE	TO	TAL NO	MIN L	N (mm)	MA	X LI	۷ (mm)	FIS	SH ACT	Г		COM	IMENT:	S
≿	2	2	Е	F/1	1	MW	N	IS			1	1	80		18	30	R	Rearing					
FISH SUMMARY	2	2	Е	F/1	1	CCG	G Ac	dult			1	1	31		13	31	R	Rearing					
M																							
SL																							
SH																							
正																							
GEAR SPECS																		P SPE					
SPE	С	SIT	E#N	ND/NC	H/P	DATE	IN T	IME I	N DA	TE (	DUT TII	ME OUT	NET T	YPE	LE	NGTH	D	EPTH	ME	SH S	SIZE	SET	HAB
٦																							
3E/																							
_									ELE	СТЕ	POEISHI	ER SPEC	TEICATI	ONS									
	С	SIT	F#1	/ID/NC	) H/P	TIME	INI TIN	иЕ О		F SE		ENGTH	WIDT		EN	CL V	OLT	FREC	) PI	SE	N	IAKE	MDL
	Ť	2		EF/1	1	1650		1705		505		200	9.6		C		250	60		xed		offelt	Mk X
S	С				-																		
Ė																							
_																							
ME																							
OMMEN																							
COMMENTS																							
COMMEN											IVIDU	AL FISI	H DAT	A									
СОММЕ	SIT	E#	MD/N	NO H/F	P SF	PECIES	LENG		WEIGI	HT	IVIDU/ SEX	AL FISI	JR			AGE				C	MMC	ENTS	
							(mm	1)		HT			JR S	TR	SAN	MPLE #		GE		Co	MMC	ENTS	
	2	2	EF/	1 1		MW	(mm 180	ı) I	WEIGI	HT			JR S		SAN			GE 2+		Co	MMC	ENTS	
		2		1 1			(mm	ı) I	WEIGI	HT			JR S	TR	SAN	MPLE #				Co	MMC	ENTS	
	2	2	EF/	1 1		MW	(mm 180	ı) I	WEIGI	HT			JR S	TR	SAN	MPLE #				C	MMC	ENTS	
	2	2	EF/	1 1		MW	(mm 180	ı) I	WEIGI	HT			JR S	TR	SAN	MPLE #				Co	MMC	ENTS	
	2	2	EF/	1 1		MW	(mm 180	ı) I	WEIGI	HT			JR S	TR	SAN	MPLE #				CC	MMC	ENTS	
	2	2	EF/	1 1		MW	(mm 180	ı) I	WEIGI	HT			JR S	TR	SAN	MPLE #				Co	MMC	ENTS	
	2	2	EF/	1 1		MW	(mm 180	ı) I	WEIGI	HT			JR S	TR	SAN	MPLE #				Co	OMMC	ENTS	
	2	2	EF/	1 1		MW	(mm 180	ı) I	WEIGI	HT			JR S	TR	SAN	MPLE #				CC	MMC	ENTS	
	2	2	EF/	1 1		MW	(mm 180	ı) I	WEIGI	HT			JR S	TR	SAN	MPLE #				CC	MMC	ENTS	
	2	2	EF/	1 1		MW	(mm 180	ı) I	WEIGI	HT			JR S	TR	SAN	MPLE #				Co	OMM	ENTS	
	2	2	EF/	1 1		MW	(mm 180	ı) I	WEIGI	HT			JR S	TR	SAN	MPLE #				Co	OMM	ENTS	
	2	2	EF/	1 1		MW	(mm 180	ı) I	WEIGI	HT			JR S	TR	SAN	MPLE #				Co	OMM	ENTS	
	2	2	EF/	1 1		MW	(mm 180	ı) I	WEIGI	HT			JR S	TR	SAN	MPLE #				Co	OMM	ENTS	
	2	2	EF/	1 1		MW	(mm 180	ı) I	WEIGI	HT			JR S	TR	SAN	MPLE #				Co	MMC	ENTS	
	2	2	EF/	1 1		MW	(mm 180	ı) I	WEIGI	HT			JR S	TR	SAN	MPLE #				Co	MMC	ENTS	
	2	2	EF/	1 1		MW	(mm 180	ı) I	WEIGI	HT			JR S	TR	SAN	MPLE #				Co	OMMC	ENTS	
	2	2	EF/	1 1		MW	(mm 180	ı) I	WEIGI	HT			JR S	TR	SAN	MPLE #				Co	OMM	ENTS	
	2	2	EF/	1 1		MW	(mm 180	ı) I	WEIGI	HT			JR S	TR	SAN	MPLE #				Co	OMM	ENTS	
	2	2	EF/	1 1		MW	(mm 180	ı) I	WEIGI	HT			JR S	TR	SAN	MPLE #				Co	OMM	ENTS	



Townsley Creek
Site 22: View downstream from top of site.
(Roll BP7 - Exp 15; CD 2 - Im 110)



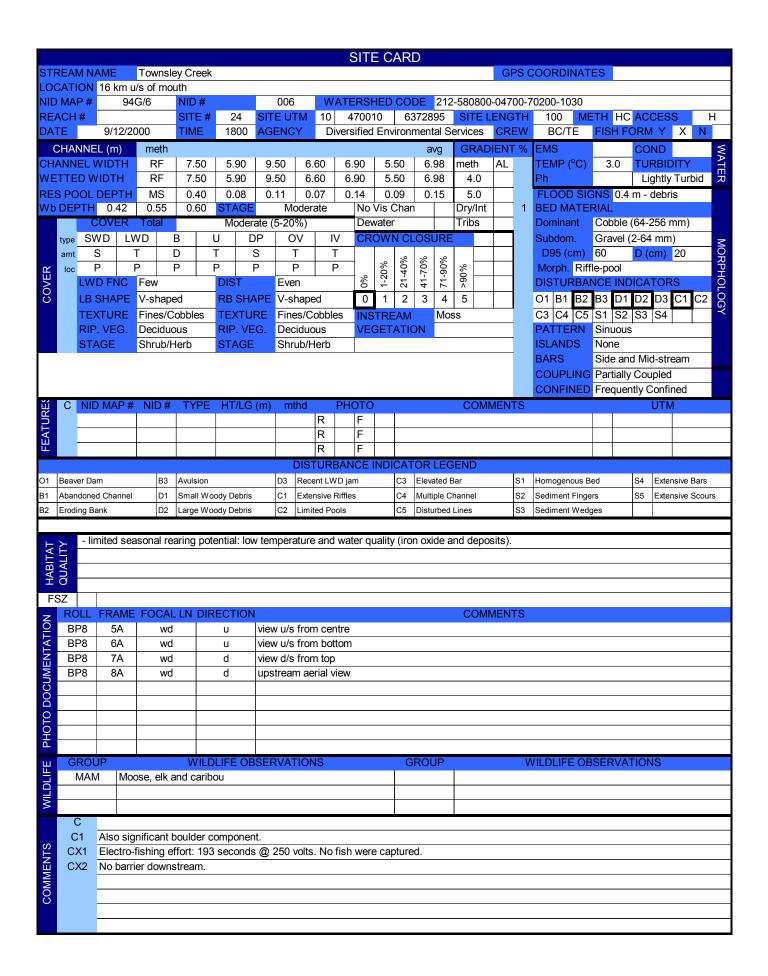
Townsley Creek Site 22: Upstream aerial view. (Roll BP8 - Exp 3A; CD 2 - Im 111)

# **APPENDIX XXX**

### TOWNSLEY CREEK

(212-580800-04700-70200-1030)

### **Sample Site 24**



									FI	SH	COLL	ECTIO	N FOR	RM							
		M NA	ME.			ey Creek											LAK		STREAM		ETLAND
	CATI			16	km u	/s of mou	ıth			_				RSH						0200-1030	
		BOD CT ID		Dos	o Dr	ophet O	on io		ILP MAI REACH			ILP SIT		24		SITE/LA FISH PE			TTACHE	D X Y C2000-021	N
DA		J 1 1L		12/200			9/12/2		AGENC		Diversifi	ed Enviro				CRI			BC/TE	RE-SA	MDIE
DA			9/	12/200	U	ιο   :	31 1Z1Z	2000	AGLING	1	Diversiii	ed LIIVII	STREA				LVV		SC/TE	NL-SA	IVIFLL
QC	S	ITE #	# N	NID MA	\P#	NID#		SITE	UTM		METH	OD/NO.	TEMP	CC		TURB			COMM	ENTS	
SITE / METHOD		24		94G/	<b>'</b> 6	006	10	470010	0.637289	15	EF	1	3.0		אוכ	L					
ME.				0.07			- 10		J.007 <u>2</u> 00			•	0.0								
Ε/																					
SIT																					
	SIT			D/NO	H/P			STAGE	AGE	ТО	TAL NO	MIN LI	۱ (mm)	MA	X LN	l (mm)	FIS	H ACT	(	COMMENT	S
۱RY	2	4	E	F/1	1	NFC	,				0										
FISH SUMMARY																					
SUN																					
HS.																					
Ħ																					
GEAR SPECS		0.75		15 (110										(D.E.)					FICATIO		
SP	С	SITE	= #   N	/ID/NO	H/P	DATE	IN	TIME	IN DA	TE (	JUI IIK	ME OUT	NET TY	YPE	LE	NGTH	וט	EPTH	MESH S	IZE SET	HAB
AR																					
GE																					
									ELE	CTF	ROFISHE	R SPEC	IFICATI	ONS							
	С	SITE		/ID/NO	H/P	TIME	IN	TIME O	UT E	F SE	C LE	NGTH	WIDT	Ή	ENG	CL VC	DLT	FREQ	PLSE	MAKE	MDL
		24	1	EF/1	1	1803	3	1812	2	193		100	7.0		0	2	50	60	Fixed	Coffelt	Mk X
COMMENTS	С																				
ΛΕΝ																					
JMC																					
Ō																					
											IVIDUA	L FISH	1 DAT	<u> </u>							
С	SIT	E# I	MD/N	IO H/P	SF	PECIES		NGTH	WEIG		SEX	MATU	IR	1		GE		_	CC	OMMENTS	
							(1	nm)	(gms	5)			S	TR	SAN	IPLE#	AG	iE			
																		$\perp$			



Townsley Creek
Site 24: View upstream from bottom of site.
(Roll BP8 - Exp 6A; CD 2 - Im 117)



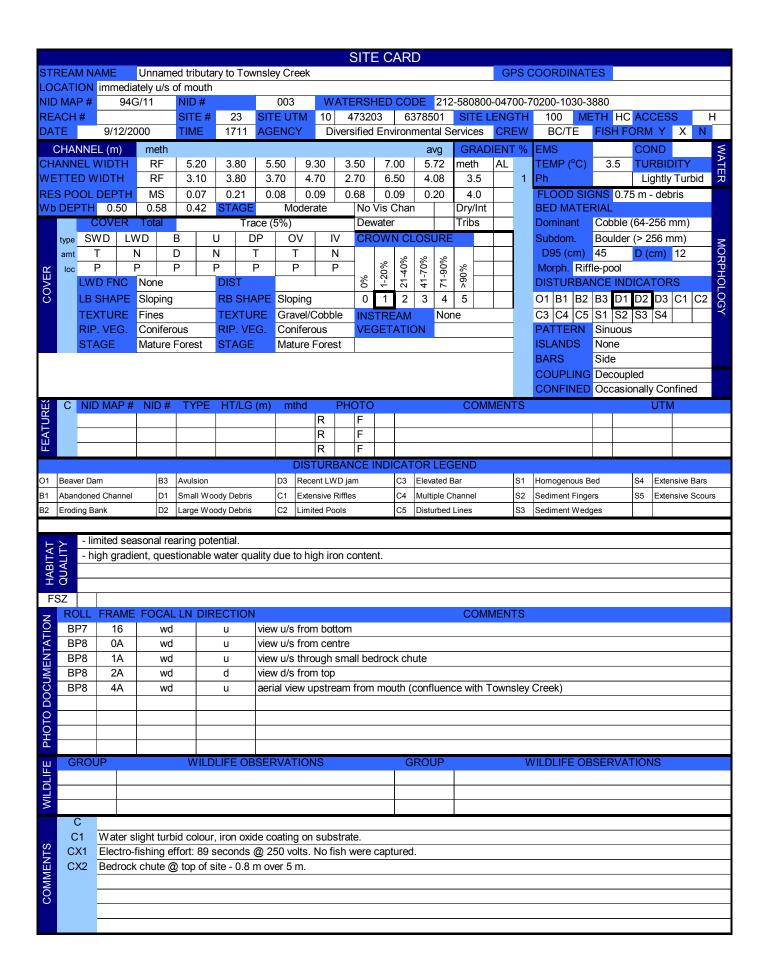
Townsley Creek
Site 24: View upstream from centre of site.
(Roll BP8 - Exp 5A; CD 2 - Im 118)

# **APPENDIX XXXI**

### UNNAMED TRIBUTARY TO TOWNSLEY CREEK

(212-580800-04700-70200-1030-3880)

### **Sample Site 23**



									F	ISH	COLL	<b>ECTIO</b>	N FOF	RM								
STF	REA	И NA	ME	Un	name	ed tributa	ry to	Townsle	y Creek								LAKE	X	STRE	EAM	W	ETLAND
LOC	CATI	ON		imr	nedia	ately u/s	of mo	outh					WATE	RSH	ED CC	DE	212-5	580800	-04700	0-7020	0-1030-3	3880
WA	TER	BOD	Y ID	,					ILP MA	Р		ILP	#		SI	ΓE/LA	KE C	ARD A	TTAC	HED	ΧY	N
PRO	OJE	CT IE	)	Bes	sa-Pr	ophet O	vervie	ew	REACH	l #		SIT	E#	23	FIS	SH PE	ERMIT	Γ#		SC20	00-021	
DAT	ΓF		9/	/12/200				2000	AGENO		Diversif	ied Enviro	nmental	Servi	ces	CRE	=w		BC/TE		RE-SA	MPI F
Ditt	_		J,	12/200	,0	ιο .	0/ 12/	2000	, to Little		Bivoroni	ou Enviro							<i>50/</i> 12		I CL O/ (	VII LL
Ω	S	ITE #	#	NID M	AP#	NID#		SITE	UTM		METH	OD/NO.	STREA						CO	MMEN	TS	
SITE / METHOD													TEMP	CO	N T	JRB						
島		23		94G/	11	003	1	0.47320	3.63785	01	EF	1	3.5			L						
ME																						
Ε/																						
Ë																						
U)																						
	SIT	F #	MT	D/NO	H/P	SPECI	FS	STAGE	AGE	ΤO	TAL NO	MIN LI	d (mm)	MAX	X LN (ı	mm)	FISH	I ACT		CO	MMENT:	S
	2	_		F/1	1	NFC		OIMOL	/\OL	10	0	IVIII V EI	• (111111)	1717 (7	X EIV (I	11111)	1 101	17101		001	VIIVIEIVI	9
FISH SUMMARY		3		-17 1	<u>'</u>	INIC	,															
M																						
$\mathbb{Z}$																						
S																						
SH																						
正																						
8															N	ET / T	RAP	SPEC	IFICAT	TIONS		
GEAR SPECS	С	SITE	F#1	MD/NC	H/P	DATE	IN	TIME	IN DA	TF (	OUT TIM	ME OUT	NET T	YPF	LENG			PTH		H SIZE	SET	HAB
S		0				27112													0.	. 0.22	02.	
AR																						
3E																						
_										0.7.	O E I O I IE	-D 0DE6	IEIO A EI	0110								
		0.7	_ ,,		J			<b>TU 15</b> 0				ER SPEC			<b>51101</b>	1 1 10	1		Lavo			Luni
		SITE	E#[[	MD/NC	)IH/P	TIME	IN	TIME C	DUT E	F SE	-c $   -$	NGTH	WIDT	Н	ENCL	VO	LT	FREQ	PLS	E	MAKE	MDL
	С	_																				
		23	3	EF/1	1	1714	4	1720	)	89	LL	100	4.1		0	25	50	60	Fixe		Coffelt	Mk X
S	С	23	3	EF/1			4	1720	)	89			4.1		0	25	50	60	Fixe		Coffelt	Mk X
SINTS		23	3	EF/1			4	1720	)	89			4.1		0	25	50	60	Fixe		Coffelt	Mk X
MENTS		23	3	EF/1			4	1720	)	89			4.1		0	25	50	60	Fixe		Coffelt	Mk X
OMMENTS		23	3	EF/1			4	1720	)	89			4.1		0	25	50	60	Fixe		Coffelt	Mk X
COMMENTS		23	3	EF/1			4	1720	)	89			4.1		0	25	50	60	Fixe		Coffelt	Mk X
COMMENTS		23	3	EF/1			4	1720				100		Α	0	25	50	60	Fixe		Coffelt	Mk X
	С				1	1714				IND	IVIDUA	100	H DATA	A			50	60		d		Mk X
COMMENTS	С			EF/1	1		LE	NGTH	WEIG	ND HT		100	H DAT		AG	E				d	Coffelt	Mk X
	С				1	1714	LE			ND HT	IVIDUA	100	H DAT			E	AGI			d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X
	С				1	1714	LE	NGTH	WEIG	ND HT	IVIDUA	100	H DAT		AG	E				d		Mk X



Unnamed tributary to Townsley Creek Site 23: View downstream from top of site. (Roll BP8 - Exp 2A; CD 2 - Im 115)



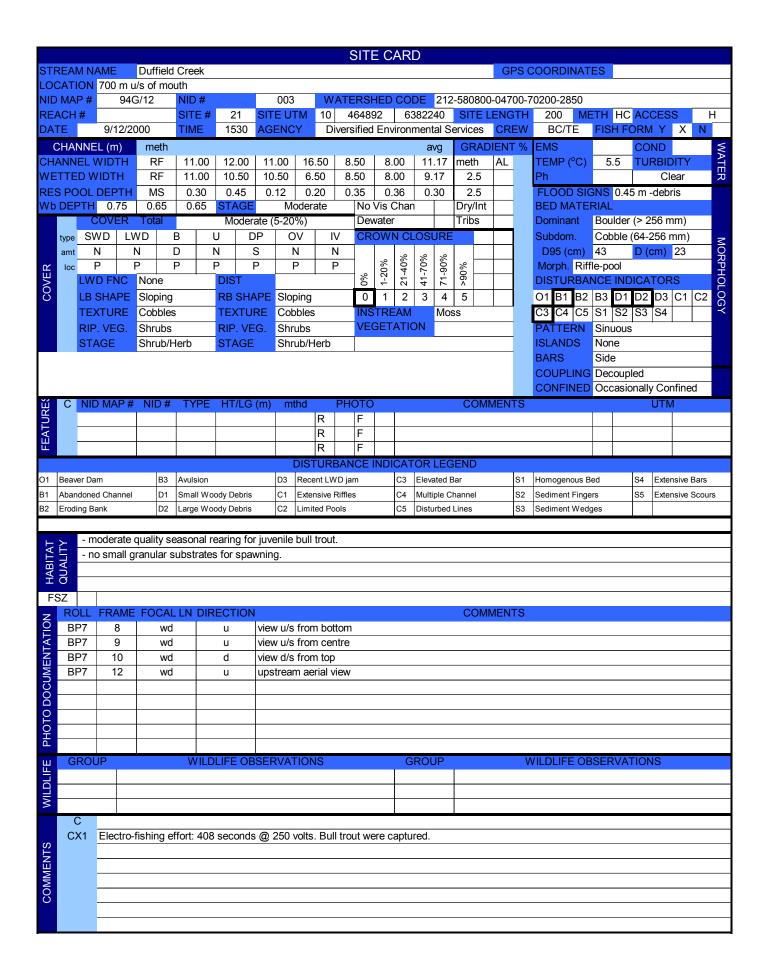
Unnamed tributary to Townsley Creek
Site 23: Upstream aerial view from mouth (confluence with Townsley Creek).
(Roll BP8 - Exp 4A; CD 2 - Im 116)

# APPENDIX XXXII

### **DUFFIELD CREEK**

(212-580800-04700-70200-2850)

# **Sample Site 21**



										FIS	H C	OLLI	ECTIO	N FOF	RM								
STF	REA	N NA	AME		Duff	ield Cree	k											LAK	E X	STR	EAM	W	ETLAND
LOC	CATI	ON		7	700	m u/s of	mou	ıth						WATE	ERSH	HED C	ODE	212-	580800	0-0470	0-7020	0-2850	
WA	TER	BOD	DY ID	)					ILP	MAP			ILP	#		S	ITE/LA	KE (	CARD A	ATTAC	HED	ΧY	N
PRO	DJE	CT IE	)	E	Besa	a-Prophe	t Ov	erview	RE	ACH#			SIT	E#	21	F	ISH PE	ERMI	T #		SC20	00-021	
DAT	F		Q/	/12/2				0/12/2000	_	SENCY		iversifi	ed Enviro	nmental	l Sen	/ices	CRE	FW		BC/TE	:	RE-SA	MPI F
	_		Ī	12/2	.000		Ť	7 12/2000	,	22.101	Ť	TVOIOIII	od Elivii							DO/ 12		I C O	IVII LL
Ω	S	ITE :	#	NID	MAI	P# NIC	) #	SIT	EUT	M	N	ИЕТНО	DD/NO.	STREA						CO	MMEN	TS	
SITE / METHOD														TEMP	CC	ON .	TURB						
Ė.		21		94	G/1:	2 00	)3	10.4648	392.63	382240		EF	1	5.5			C						
ME																							
Ε/																							
Ë																							
U)											+												
	SIT	F #	МТ	D/N0	n li	H/P SP	ECIE	ES STAC	: <b>Ε</b> Ι Δ	GE T	$\cap T \Delta$	AL NO	MIN LI	d (mm)	ΜΔ	X LN	(mm)	FIS	Н АСТ		COI	MMENT:	ς
		_		F/1	0 1		BT		_	OL I		5		52	IVI	180					COI	VIIVILINI	0
K.	2	'		.F/ I		1	ы	Juv			•	3	13	)_		100	,	Γ.	earing				
M																							
$\equiv$																							
FISH SUMMARY		[			[																		
SH																							
ΞĔ															Ī								
55																1	NET / T	TRAP	SPEC	IFICA	TIONS		
GEAR SPECS	С	SIT	E#1	MD/N	VO.	H/P DA	TE	IN TIM	F IN	DATE	OU	IT TIM	1E OUT	NET T	YPF		IGTH		PTH		H SIZE	SET	HAB
SF		0111	_ //	IVID/I	10	11/1   0/		11101		Ditte	. 00	1 1 111	IL OUT	IVE I		LLIV		D.	_, ,,,	IVILO	II OIZL	OLI	11710
AR																							
3E,																							
_																							
					_								R SPEC										
	С		E# [				ME I						NGTH	WIDT		ENC			FREQ			MAKE	MDL
		2	1	EF/	1	1 ′	1535	15	55	40	38		200	9.2		0	25	50	60	Fixe	ed (	Coffelt	Mk X
-S	С																						
Z																							
ME																							
COMMENTS																							
C																							
										IN	DIV	'IDUA	L FISI	H DAT	A								
								LENGTH	ΙV	VEIGHT	-					A	GE						
С	SIT	E#	MD/I	NOIF	<del>I</del> /P	SPECI	ES	(mm)		(gms)		SEX	MATU	IR S	TR		PLE#	AG	iF		COM	MENTS	
	2	1	EF/	/1	1	ВТ		166		(5 - /					cale		1-1	3-	_				
	2		EF/		1	BT		165	+		+				cale		1-2	2-					
	2		EF/		1	BT		169			+				cale		1-3	2-					
	2		EF/		1	BT		152	-		+			_			1-3	2-					
	2		EF/			BT		180	-		+				cale		1-4	2-					
		1	EF/	/1	1	ВІ		180						50	cale		1-5	21	F				
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Duffield Creek
Site 21: View downstream from top of site.
(Roll BP7 - Exp 10; CD 2 - Im 106)



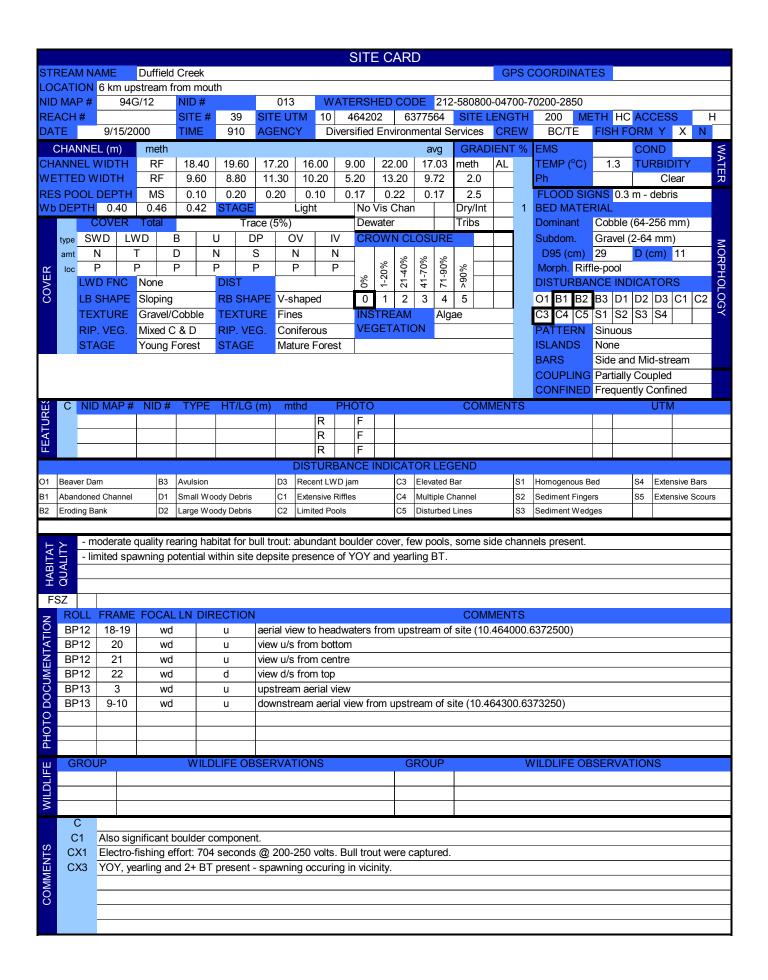
Duffield Creek Site 21: Upstream aerial view. (Roll BP7 - Exp 12; CD 2 - Im 107)

# **APPENDIX XXXIII**

### **DUFFIELD CREEK**

(212-580800-04700-70200-2850)

# Sample Site 39



								FI	ISH	COLL	<b>ECTIO</b>	N FOF	RM								
STF	REAN	M NA	ME	Duf	field (	Creek									LAI	KE .	X S	TREA	λM	WE	ETLAND
LOC	ATI	ON		6 kr	n ups	tream fr	om mouth					WATE	RSHE	D CODE	212	2-5808	00-04	4700-T	70200	)-2850	
WA <sup>-</sup>	TER	BOD	Y ID					ILP MAI	Р		ILP	#		SITE/L	AKE	CARD	ATT	ГАСН	ED	ΧY	N
PRO	)JE(	CT ID	)	Е	Besa-l	Prophet	Overview	REACH	l #		SIT	E#	39	FISH F	PERM	ΛIT #		S	C200	00-021	·
DAT	Έ		9/15	/2000	)	to 9	/15/2000	AGENC	Ϋ́	Diversifi	ied Enviro	nmental	Service	ces CI	REW		BC	/TE		RE-SAN	MPLE
<b>2</b> 7 ( .	_		1	,				7.02.10	-	2					_						
	S	ITE#	ŧ ΝΙΙ	O MA	P#	NID#	SITE	UTM		METH	OD/NO.		_	NDITION	=		(	COMI	MEN <sup>-</sup>	ΓS	
SITE / METHOD												TEMP	CON		3						
島		39	9	94G/1	2	013	10.45420	2.637756	64	EF	1	1.3		С							
M																					
Ε/																					
H																					
0,																					
	SIT	F#	MTD/I	NO	H/P	SPECIE	ES STAGE	AGE	TO	TAL NO	MIN LI	V (mm)	MAX	(LN (mm)	FI	SH AC	T		CON	MENTS	3
	3		EF/		1	BT	NS	7.02		14		7	11111 0	176	_	Rearing			00		
Ř		5	L1 /		-		110			17				170	'	\cariig	,				
FISH SUMMARY																					
$\leq$																					
S																					
SH																					
Ш									L												
ö														NET /	TRA	P SPE	CIFIC	CATI	ONS		
GEAR SPECS	С	SITE	E#MD	/NO	H/P	DATE	IN TIME	IN DA	TE C	OUT TIM	ME OUT	NET T	/PE	LENGTH		DEPTH	l M	IESH :	SIZE	SET	HAB
S																					
A	-																				
B	-																				
								ELE	СТЕ	OFICHE	ER SPEC	IEICATI	ONG		_						
- 1	С	CITE	= # MD	VNIO	LI/D	TIME I	N TIME C		F SE		NGTH	WIDT		ENCL V	OLT.	FRE		PLSE		/AKE	MDL
	C	39		F/1	1	0912			704		200	9.7	П		250	60		Fixed		Coffelt	Mk X
		38	,	Γ/ I	1	0912	0930	)	704			9 /		0 1	200	1 60				OHEIL	I IVIK A
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TS	С										200	· · ·						incu			
ENTS	С										200	0						плси			
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COMMENTS	С						<u>'</u>				200							incu			
COMMENTS	С									1								incu			
COMMENTS	C									1	AL FISI		Ą					inco			
		C # 1	MD/NO	LI/ID	eni	ECIES .	LENGTH		ND	IVIDU	AL FISI	H DAT	Ą	AGE						MENITO	
COMMENTS		E#	MD/NO	H/P	SPE	ECIES	LENGTH (mm)		ND HT	1		H DAT			# A	GE				1ENTS	
			MD/NO EF/1	H/P		ECIES BT		WEIG	ND HT	IVIDU	AL FISI	H DAT.		AGE	_					MENTS	
	SIT	9					(mm)	WEIG	ND HT	IVIDU	AL FISI	H DAT	TR S	AGE SAMPLE :	2	GE				1ENTS	
	SIT 3:	9	EF/1	1	I	BT BT	(mm) 162 160	WEIG	ND HT	IVIDU	AL FISI	H DAT	TR Sale	AGE SAMPLE : 39-1 39-2	2	GE 2+ 2+				1ENTS	
	SIT 3:	9 9 9	EF/1 EF/1	1 1 1		BT BT BT	(mm) 162 160 176	WEIG	ND HT	IVIDU	AL FISI	H DAT	TR Sale	AGE SAMPLE : 39-1 39-2 39-3	2	GE 2+ 2+ 2+				1ENTS	
	SIT 3: 3: 3: 3: 3:	9 9 9 9	EF/1 EF/1 EF/1	1 1 1 1		BT BT BT BT	(mm) 162 160 176 151	WEIG	ND HT	IVIDU	AL FISI	H DAT	rr sale cale cale	AGE SAMPLE : 39-1 39-2 39-3 39-4	2	GE 2+ 2+ 2+ 2+				IENTS	
	SIT 33 33 33 33 33 33 33 33 33 33 33 33 33	9 9 9 9 9	EF/1 EF/1 EF/1 EF/1	1 1 1 1		BT BT BT BT BT	(mm) 162 160 176 151 110	WEIG	ND HT	IVIDU	AL FISI	H DAT	TR Scale cale cale cale cale cale	AGE SAMPLE : 39-1 39-2 39-3 39-4 39-5		GE 2+ 2+ 2+ 1+				MENTS	
	SIT 33 33 33 33 33 33 33 33 33 33 33 33 33	9 9 9 9 9 9	EF/1 EF/1 EF/1 EF/1 EF/1	1 1 1 1 1 1		BT BT BT BT BT BT	(mm) 162 160 176 151 110	WEIG	ND HT	IVIDU	AL FISI	H DAT	tra sale cale cale cale cale cale cale cale c	AGE SAMPLE : 39-1 39-2 39-3 39-4 39-5 39-6	2	GE 2+ 2+ 2+ 1+ 1+				MENTS	
	SIT 33 33 33 33 33 33 33 33 33 33 33 33 33	9 9 9 9 9 9 9	EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	1 1 1 1 1 1		BT BT BT BT BT BT BT	(mm) 162 160 176 151 110 99 104	WEIG	ND HT	IVIDU	AL FISI	H DAT.  SSC  SSC  SSC  SSC  SSC  SSC  SSC  S	TR Sale cale cale cale cale cale cale cale c	AGE 39-1 39-2 39-3 39-4 39-5 39-6 39-7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GE 2+ 2+ 2+ 1+ 1+ 1+ 1+				MENTS	
	SIT 33 33 33 33 33 33 33 33 33 33 33 33 33	9 9 9 9 9 9 9	EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	1 1 1 1 1 1 1		BT	(mm) 162 160 176 151 110 99 104	WEIG	ND HT	IVIDU	AL FISI	H DAT.  SSC  SSC  SSC  SSC  SSC  SSC  SSC  S	tra sale cale cale cale cale cale cale cale c	AGE SAMPLE : 39-1 39-2 39-3 39-4 39-5 39-6	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GE 2+ 2+ 2+ 1+ 1+				MENTS	
	SIT 33 33 33 33 33 33 33 33 33 33 33 33 33	9 9 9 9 9 9 9 9	EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	1 1 1 1 1 1 1 1		BT	(mm) 162 160 176 151 110 99 104 49 48	WEIG	ND HT	IVIDU	AL FISI	H DAT.  SSC  SSC  SSC  SSC  SSC  SSC  SSC  S	TR Sale cale cale cale cale cale cale cale c	AGE 39-1 39-2 39-3 39-4 39-5 39-6 39-7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GE 2+ 2+ 2+ 1+ 1+ 1+ 1+				MENTS	
	SIT 33 33 33 33 33 33 33 33 33 33 33 33 33	9 9 9 9 9 9 9 9 9	EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	1 1 1 1 1 1 1 1 1		BT B	(mm)  162  160  176  151  110  99  104  49  48  49	WEIG	ND HT	IVIDU	AL FISI	H DAT.  SSC  SSC  SSC  SSC  SSC  SSC  SSC  S	TR Sale cale cale cale cale cale cale cale c	AGE 39-1 39-2 39-3 39-4 39-5 39-6 39-7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GE 2+ 2+ 2+ 1+ 1+ 1+ 1+				MENTS	
	SIT 33 33 33 33 33 33 33 33 33 33 33 33 33	9 9 9 9 9 9 9 9 9	EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	1 1 1 1 1 1 1 1		BT B	(mm) 162 160 176 151 110 99 104 49 48	WEIG	ND HT	IVIDU	AL FISI	H DAT.  SSC  SSC  SSC  SSC  SSC  SSC  SSC  S	TR Sale cale cale cale cale cale cale cale c	AGE 39-1 39-2 39-3 39-4 39-5 39-6 39-7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GE 2+ 2+ 2+ 1+ 1+ 1+ 1+				MENTS	
	SIT 33 33 33 33 33 33 33 33 33 33 33 33 33	9 9 9 9 9 9 9 9 9 9	EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	1 1 1 1 1 1 1 1 1		BT B	(mm) 162 160 176 151 110 99 104 49 48 49 47 98	WEIG	ND HT	IVIDU	AL FISI	H DAT.  SSC  SSC  SSC  SSC  SSC  SSC  SSC  S	TR Sale cale cale cale cale cale cale cale c	AGE 39-1 39-2 39-3 39-4 39-5 39-6 39-7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GE 2+ 2+ 2+ 1+ 1+ 1+ 1+				MENTS	
	SIT 33 33 33 33 33 33 33 33 33 33 33 33 33	9 9 9 9 9 9 9 9 9 9	EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	1 1 1 1 1 1 1 1 1 1		BT B	(mm) 162 160 176 151 110 99 104 49 48 49 47	WEIG	ND HT	IVIDU	AL FISI	H DAT.  SSC  SSC  SSC  SSC  SSC  SSC  SSC  S	TR Sale cale cale cale cale cale cale cale c	AGE 39-1 39-2 39-3 39-4 39-5 39-6 39-7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GE 2+ 2+ 2+ 1+ 1+ 1+ 1+				MENTS	
	SIT 33 33 33 33 33 33 33 33 33 33 33 33 33	9 9 9 9 9 9 9 9 9 9 9	EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	1 1 1 1 1 1 1 1 1 1 1		BT B	(mm) 162 160 176 151 110 99 104 49 48 49 47 98	WEIG	ND HT	IVIDU	AL FISI	H DAT.  SSC  SSC  SSC  SSC  SSC  SSC  SSC  S	TR Sale cale cale cale cale cale cale cale c	AGE 39-1 39-2 39-3 39-4 39-5 39-6 39-7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GE 2+ 2+ 2+ 1+ 1+ 1+ 1+				MENTS	
	SIT 33 33 33 33 33 33 33 33 33 33 33 33 33	9 9 9 9 9 9 9 9 9 9 9	EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		BT B	(mm)  162  160  176  151  110  99  104  49  48  49  47  98  101	WEIG	ND HT	IVIDU	AL FISI	H DAT.  SSC  SSC  SSC  SSC  SSC  SSC  SSC  S	TR Sale cale cale cale cale cale cale cale c	AGE 39-1 39-2 39-3 39-4 39-5 39-6 39-7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GE 2+ 2+ 2+ 1+ 1+ 1+ 1+				MENTS	
	SIT 33 33 33 33 33 33 33 33 33 33 33 33 33	9 9 9 9 9 9 9 9 9 9 9	EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		BT B	(mm)  162  160  176  151  110  99  104  49  48  49  47  98  101	WEIG	ND HT	IVIDU	AL FISI	H DAT.  SSC  SSC  SSC  SSC  SSC  SSC  SSC  S	TR Sale cale cale cale cale cale cale cale c	AGE 39-1 39-2 39-3 39-4 39-5 39-6 39-7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GE 2+ 2+ 2+ 1+ 1+ 1+ 1+				MENTS	
	SIT 33 33 33 33 33 33 33 33 33 33 33 33 33	9 9 9 9 9 9 9 9 9 9 9	EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		BT B	(mm)  162  160  176  151  110  99  104  49  48  49  47  98  101	WEIG	ND HT	IVIDU	AL FISI	H DAT.  SSC  SSC  SSC  SSC  SSC  SSC  SSC  S	TR Sale cale cale cale cale cale cale cale c	AGE 39-1 39-2 39-3 39-4 39-5 39-6 39-7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GE 2+ 2+ 2+ 1+ 1+ 1+ 1+				MENTS	
	SIT 33 33 33 33 33 33 33 33 33 33 33 33 33	9 9 9 9 9 9 9 9 9 9 9	EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	1 1 1 1 1 1 1 1 1 1 1 1 1		BT B	(mm)  162  160  176  151  110  99  104  49  48  49  47  98  101	WEIG	ND HT	IVIDU	AL FISI	H DAT.  SSC  SSC  SSC  SSC  SSC  SSC  SSC  S	TR Sale cale cale cale cale cale cale cale c	AGE 39-1 39-2 39-3 39-4 39-5 39-6 39-7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GE 2+ 2+ 2+ 1+ 1+ 1+ 1+				MENTS	
	SIT 33 33 33 33 33 33 33 33 33 33 33 33 33	9 9 9 9 9 9 9 9 9 9 9	EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	1 1 1 1 1 1 1 1 1 1 1 1 1		BT B	(mm)  162  160  176  151  110  99  104  49  48  49  47  98  101	WEIG	ND HT	IVIDU	AL FISI	H DAT.  SSC  SSC  SSC  SSC  SSC  SSC  SSC  S	TR Sale cale cale cale cale cale cale cale c	AGE 39-1 39-2 39-3 39-4 39-5 39-6 39-7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GE 2+ 2+ 2+ 1+ 1+ 1+ 1+				MENTS	
	SIT 33 33 33 33 33 33 33 33 33 33 33 33 33	9 9 9 9 9 9 9 9 9 9 9	EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	1 1 1 1 1 1 1 1 1 1 1 1 1		BT B	(mm)  162  160  176  151  110  99  104  49  48  49  47  98  101	WEIG	ND HT	IVIDU	AL FISI	H DAT.  SSC  SSC  SSC  SSC  SSC  SSC  SSC  S	TR Sale cale cale cale cale cale cale cale c	AGE 39-1 39-2 39-3 39-4 39-5 39-6 39-7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GE 2+ 2+ 2+ 1+ 1+ 1+ 1+				MENTS	
	SIT 33 33 33 33 33 33 33 33 33 33 33 33 33	9 9 9 9 9 9 9 9 9 9 9	EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1 EF/1	1 1 1 1 1 1 1 1 1 1 1 1 1		BT B	(mm)  162  160  176  151  110  99  104  49  48  49  47  98  101	WEIG	ND HT	IVIDU	AL FISI	H DAT.  SSC  SSC  SSC  SSC  SSC  SSC  SSC  S	TR Sale cale cale cale cale cale cale cale c	AGE 39-1 39-2 39-3 39-4 39-5 39-6 39-7	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	GE 2+ 2+ 2+ 1+ 1+ 1+ 1+				MENTS	



Duffield Creek
Site 39: View upstream from bottom of site.
(Roll BP12 - Exp 20; CD 3 – Im 202)



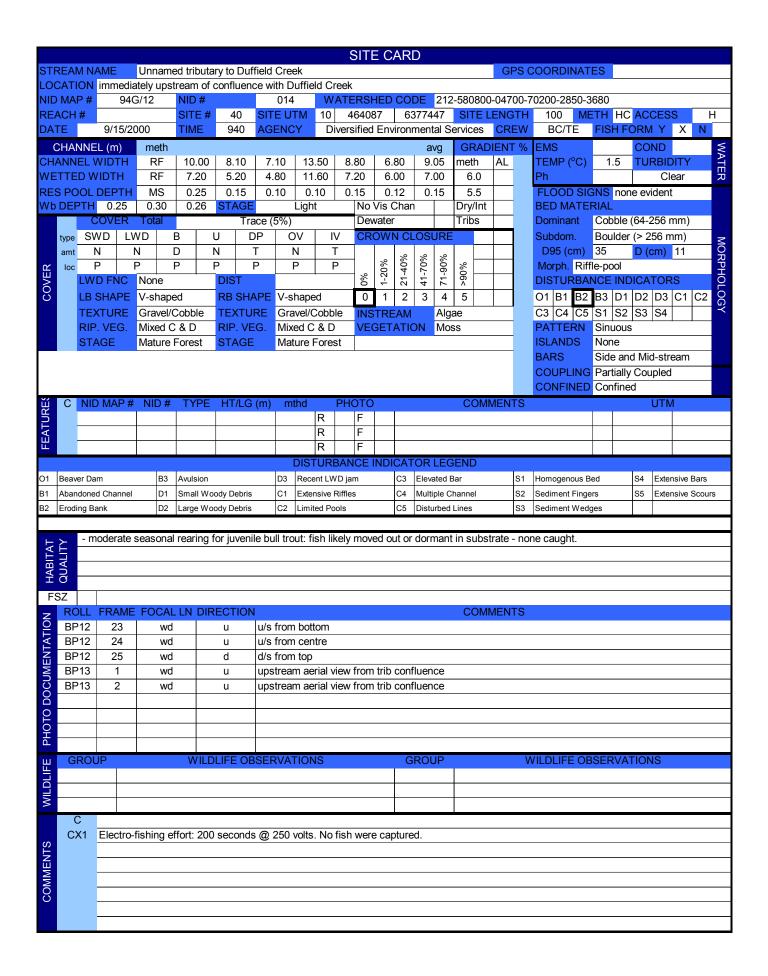
Duffield Creek Site 39: Upstream aerial view. (Roll BP13 - Exp 3; CD 3 – Im 205)

# **APPENDIX XXXIV**

### UNNAMED TRIBUTARY TO DUFFIELD CREEK

(212-580800-04700-70200-2850-3680)

# Sample Site 40



									FI	ISH	COLL	ECTIO	N FOF	RM								
STF	REAN	M NA	ΑМЕ	Ur	name	ed tributa	ry to Du	ıffield	Creek								LAKE	X	STRE	AM	W	ETLAND
LOC	CATI	ON		im	media	ately upst	ream of	confl	uence w	ith D	uffield		WATE	ERSH	ED (	CODE	212-	580800	-04700	)-7020	0-2850-	3680
WA	TER	BOE	OY IE	)					ILP MAI	Р		ILP	#		5	SITE/LA	KE C	ARD A	TTAC	HED	ΧY	N
PRO	DJE	CT II	D		Besa	-Prophet	Overvie	ew	REACH	l #		SIT	E#	40	F	ISH PI	ERMI	Γ#		SC20	00-021	
DAT	F		9	/15/20			9/15/200		AGENC		Diversifi	ed Enviro	onmental	Servi	ices	CR	FW		3C/TE		RE-SA	MPI F
			Ť				, <u>_</u>						STREA								0, .	
О	S	ITE:	#	NID M	AP#	NID#		SITE	UTM		METH	OD/NO.							COI	MMEN	TS	
9												1	TEMP	CO	N	TURB						
ᇤ		40		94G	/12	014	10.4	64087	7.637744	17	EF	1	1.5			С						
SITE / METHOD																						
Щ																						
S																						
	SIT	E#	MT	TD/NO	H/P	SPECI	ES ST	AGE	AGE	TO	TAL NO	MIN LI	V (mm)	MA	X LN	(mm)	FISH	H ACT		COI	MMENT	S
≿	4	0	E	EF/1	1	NFC	;			Ĭ	0											
FISH SUMMARY																						
M																						
SU																						
Ĭ																						
띪																						
οχ																NET / 1	TRAP	SPEC	IFICAT	CIONS		
GEAR SPECS	С	SIT	F #	MD/NO	) H/P	DATE	INI T	ГІМЕ	IN DA	TE (	NIT TIN	/IE OUT	NET T	VPF		IGTH		PTH	MESI		SET	HAB
SF	Ŭ	OH	L π	IVID/IV	7 1 1/1	DAIL	114	I IIVIL	IIV DA	1 L (	701 111	AL OUT	INETT		LLI	10111			IVILOI	I OIZL	OLI	TIAD
AR																						
GE																						
									=1 =	СТЕ	OFIGUE	D CDEC	IEICATI	ONC								
		CIT	- 4	MD/NC		TIME	INI TU	MEO				R SPEC			ENIC		V T	EDEO.	DLC		4012	MDI
	С	4		MD/NO EF/1	_			ME O		F SE		NGTH	WIDT 7.0		ENC		50	FREQ 60	PLS		MAKE Coffelt	MDL Mk X
		4	U	LI71	1	094	)	1000	,	200		100	7.0		U	2	50	00	Fixe	a (	JOHEIL	IVIK
TS	С	4	U	LI71	1	0948	)	1000	)	200		100	7.0			2:	50	60	Fixe	d   (	Joneil	IVIK
ENTS	С	-			1	094	)	1000	)	200		100	7.0		0		50	60	Fixe	a   (	Jonen	IVIK
//WENTS	С	4		LITI	1	094	)	1000	)	200		100	7.0				50	60	Fixe	a   (	Jonest	IVIK
SOMMENTS	С	4		LITI	1	094	)	1000	)	200		100	7.0				50	60	Fixe	a   (	Joneil	IVIK
COMMENTS	С			LITT	1	0948	)	1000	\		\						50	60	Fixe	a   C	Joneit	IVIK
COMMENTS	С	4		LITT		0948				ND	\	AL FISI					50	60	Fixe	a   C	Sofieit	IVIK
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						IVIK
COMMENTS				NO H/I		PECIES		ЭТН		ND HT	\		H DAT	A	A		AG				MENTS	IVIK
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						IVIK
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						IVIK
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						IVIK
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						IVIK
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						IVIN
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						IVIN
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						
							LENG	ЭТН	WEIG	ND HT	IVIDU	AL FISI	H DAT	A	A	GE						



Unnamed tributary to Duffield Creek Site 40: View upstream from bottom of site. (Roll BP12 - Exp 23; CD 3 – Im 208)



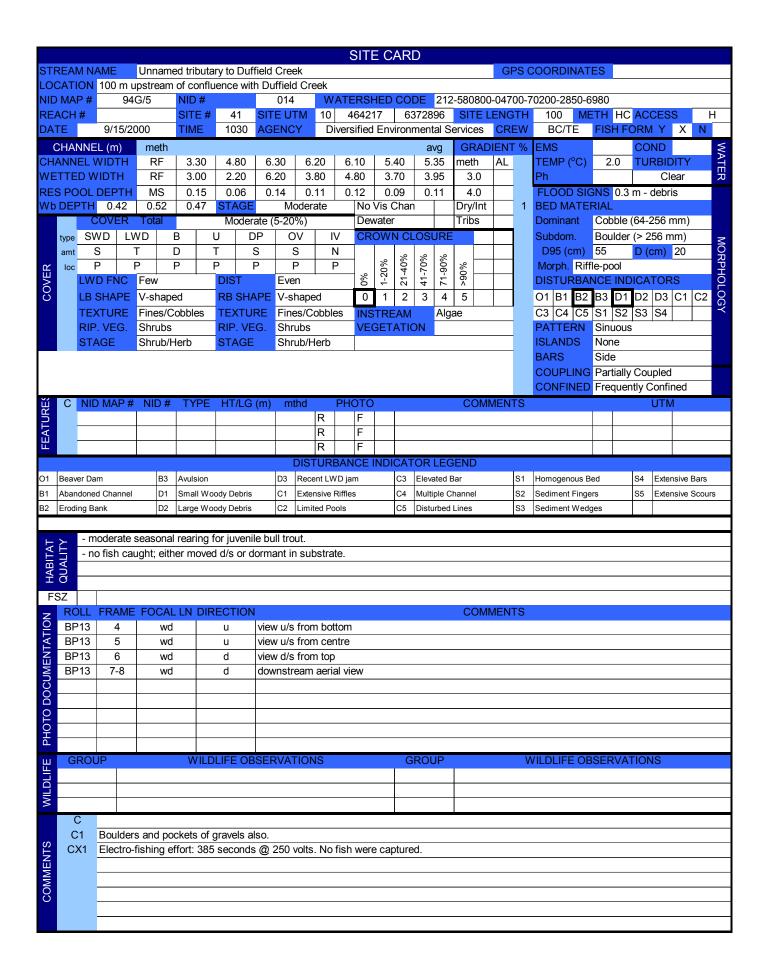
Unnamed tributary to Duffield Creek Site 40: View upstream from bottom of site. (Roll BP13 - Exp 1; CD 3 – Im 211)

## APPENDIX XXXV

### UNNAMED TRIBUTARY TO DUFFIELD CREEK

(212-580800-04700-70200-2850-6980)

## Sample Site 41



										SH	COLL	ECTIO	N FOF	RM								
		M NA	AME			ed tributa				D "			\4/ A T F		IED (	0005	LAK		STREAM			LAND
	CATI	ON BOD	ו ער		10 m L	ıpstream	from		ILP MAI		ield	ILP		RSF					-04700-7 TTACHE			N
				_	Besa	a-Prophet	Over		REACH			SIT		41		FISH PI				C2000-02		
DA				/15/20		_ i	9/15/2		AGENC		Diversif	ied Enviro				CR		_	BC/TE		SAMF	PLE
													STREA			ITION						
OD	S	ITE #	#	NID M	IAP#	NID#		SITE	UIM		METH	OD/NO.	TEMP	CC		TURB			COMM	IENIS		
푪		41		940	<del>3</del> /5	014	10	.464217	7.637289	96	EF	1	2.0			С						
SITE / METHOD																						
ΤE																						
S																						
	SIT	E#	МТ	ΓD/NO	H/P	SPECI	ES S	STAGE	AGE	TO	TAL NO	MIN LI	V (mm)	MA	XX LN	l (mm)	FIS	Н АСТ		COMMEN	NTS	
≾	4	1	E	EF/1	1	NFC					0		, ,			, ,						
MAF																						
UMI																						
H SI																						
FISH SUMMARY																						
83																NET / 1	ΓRΑF	SPEC	IFICATIO	NS		
GEAR SPECS	С	SITI	E#	MD/N	O H/P	DATE	IN	TIME	IN DA	TE (	IIT TUC	ME OUT	NET T	YPE	LEI	NGTH	DI	EPTH	MESH S	SIZE SE	T	HAB
AR S																						
GE/																						
									ELE	CTF	ROFISHI	ER SPEC	IFICATI	ONS								
	С	SITI	E#	MD/N	O H/P	TIME	IN	TIME O		F SE		ENGTH	WIDT		ENG	CL VC	DLT	FREQ	PLSE	MAKE		MDL
		4	1	EF/1	1	1035	5	1053	3	384		100	4.0		0	) 2:	50	60	Fixed	Coffel	t	Mk X
TS	С																					
COMMENTS																						
JMI																						
))																						
											IVIDU	AL FISI	H DAT	A								
С	SIT	E#	MD/	NO H/	P SF	PECIES		NGTH	WEIG		SEX	MATU	JR			AGE		_	CC	OMMENT	S	
							(r	nm)	(gms	5)			S	TR	SAN	/IPLE#	AG	SE				
				$\dashv$																		
							L															
				$\perp$																		
					1							1										
		- 1																l				



Unnamed tributary to Duffield Creek Site 41: View downstream from top of site. (Roll BP13 - Exp 6; CD 3 – Im 215)



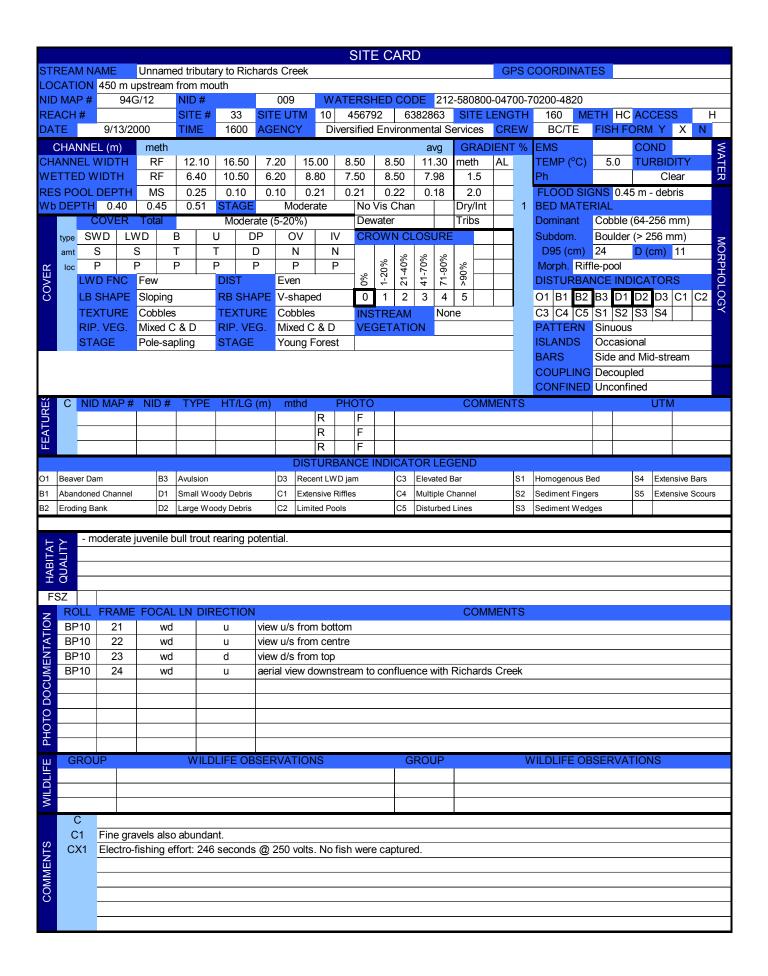
Unnamed tributary to Duffield Creek Site 41: Upstream aerial view. (Roll BP13 - Exp 7; CD 3 – Im 216)

## APPENDIX XXXVI

### UNNAMED TRIBUTARY TO RICHARDS CREEK

(212 - 580800 - 04700 - 70200 - 4820)

## Sample Site 33



									ISH	COLL	ECTIO	N FOR	RM							
		M NAI	ME				ry to Richard	ls Creek								LAKE		STREAM		ETLAND
	CATI		VID	450	m u	pstream	from mouth	II D 144	<b>D</b>		<b>"</b> " D		RSH						200-4820	<u> — "</u>
		BOD'	עו ז		Sec 2	Prophet	Overview	ILP MA			ILP SIT		33			RE CAR RMIT #		TACHE	D X Y 2000-021	N
DA <sup>-</sup>		טו וכ	0/13	3/2000			9/13/2000	AGEN		Diversifi	ed Enviro				CRE			C/TE	RE-SA	MDIE
			3/ 13	// Z000	,	10   1	7 13/2000	TOLIV		Diversiii	CG ETIVITO	STREA				. * *	Β.	3/1L	INE-OA	IVII LL
OC	S	ITE#	NII	D MA	P#	NID#	SITE	UTM		METH	OD/NO.	TEMP	CO		JRB			COMM	ENTS	
H		33		94G/1	2	009	10.45679	2 63828	63	EF	1	5.0	CO		С					
SITE / METHOD				710/1	_		10.1007	2.00020			•	0.0								
E /																				
SIT																				
	SIT	_	MTD/		H/P			AGE	TO	TAL NO	MIN LI	۱ (mm)	MA	X LN (n	nm)	FISH A	CT	(	COMMENT	S
RY	3	3	EF/	1	1	NFC	;			0										
FISH SUMMARY																				
NO																				
ВH																				
FIS																				
g														NE	T/T	RAP SF	ECIF	ICATIO	NS	
GEAR SPECS	С	SITE	# ME	)/NO	H/P	DATE	IN TIME	IN DA	TE (	NIT TUC	/IE OUT	NET TY	/PE	LENG	TH	DEPT	Ή	MESH S	IZE SET	HAB
RS																				
ìЕА																				
0									O.T.			IEIO A EI	0110							
	С	CITE	# MC	VNIO	LI/D	TIME	IN TIME		F SE	ROFISHE	NGTH	WIDT		ENCL	VOI	LT FR	EO I	PLSE	MAKE	MDL
	C	33	_	F/1	1	1605			246		160	8.0	П	O	25		10 10	Fixed	Coffelt	Mk X
(O	С					.000					.00	0.0							000.0	
COMMENTS																				
IME																				
NO:																				
O									ND	D (IDL)	I FIOI	LDAT	Δ.							
							LENGTH			IVIDUA	AL FISH	1 DA I	Α	ΛΩ.						
С	SIT	E#N	MD/NC	H/P	SP	ECIES	LENGTH (mm)	WEIG (gm		SEX	MATU	IR S	TR	AGE SAMPL		AGE		CC	MMENTS	
							(111111)	(9111	٠,			3	111	OAWII L	-L #	AUL				
							_												_	
								1												
																			_	
		$\rightarrow$																		
		1		1						4			- 1							



Unnamed tributary to Richards Creek Site 33: View downstream from top of site. (Roll BP10 - Exp 23; CD 3 – Im 169)



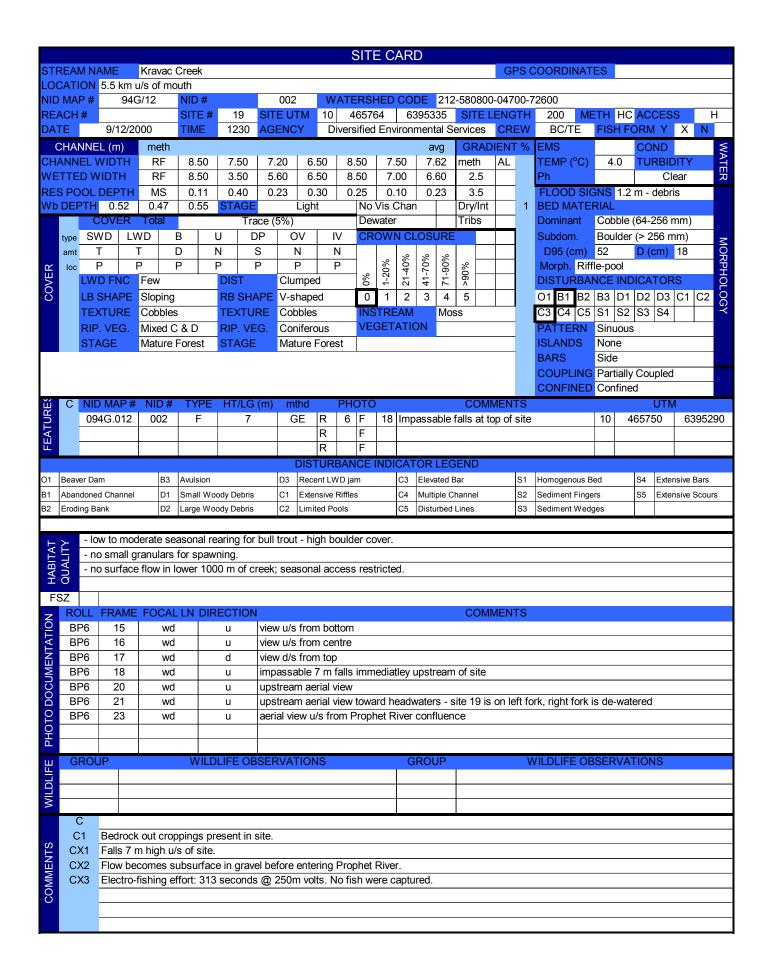
Unnamed tributary to Richards Creek Site 33: Upstream aerial view. (Roll BP10 - Exp 24; CD 3 – Im 170)

## **APPENDIX XXXVII**

## KRAVAC CREEK

(212-580800-04700-72600)

## Sample Site 19



									FI	ISH	COLL	ECTIO	N FOF	RM								
STF	REA	M NA	AME	Kra	avac (	Creek											LAKE	Х	STRE	:AM	WE	TLAND
LOC	CATI	ON		5.5	km ı	u/s of mo	uth						WATE	ERSHI	ED C	ODE	212-	80800	-04700	-7260	0	
WA	TER	BOD	OY ID						ILP MAI	Р		ILP	#		S	SITE/LA	KE C	ARD A	TTACI	HED	ΧY	N
PRO	DJE	CT IE	)	Be	sa-Pr	ophet Ov	vervie	ew .	REACH	l #		SIT	E#	19	F	ISH PE	ERMI	Г#		SC20	00-021	
DAT	F		9.	/12/200					AGENC		Diversifi	ied Enviro	nmental	Servi	ices	CRI	ΕW	F	3C/TE		RE-SAN	/PLF
<b>3</b> , (1			Ī						7.02.10		2.10.0		STREA								0,	
Q	S	ITE :	#	NID M	AP#	NID#		SITE	UTM		METH	OD/NO.							CON	<b>MEN</b>	TS	
유													TEMP	CO	N	TURB						
H		19		94G/	12	002	1(	0.465764	4.639533	35	EF	1	4.0			С						
SITE / METHOD																						
Ш																						
S																						
	SIT	E#		D/NO	H/P	SPECI	ES	STAGE	AGE	TO	TAL NO	MIN LI	N (mm)	MAX	X LN	(mm)	FISH	1 ACT		COI	MENTS	3
≿	1	9	E	F/1	1	NFC	;				0											
FISH SUMMARY																						
M																						
SU																						
표																						
표																						
93																NET / T	RAP	SPECI	FICAT	IONS		
GEAR SPECS	С	SIT	E#	MD/NC	H/P	DATE	IN	TIME	IN DA	TE (	OUT TIN	ME OUT	NET T	YPE		IGTH			MESH		SET	HAB
S																						
AR					1																	
GE																						
									ELE	СТБ	OFISHE	ER SPEC	IFICATI	ONS								
	С	SITI	F #	MD/NC	H/D	TIME	INI	TIME C		F SE		ENGTH	WIDT		ENC	L VC	II T	FREQ	PLSI	= I N	MAKE	MDL
		19		EF/1	1	1236		1300		313		200	6.6		0		50	60	Fixed		Coffelt	Mk X
			~	_, ,																		
	С		·							0.0		200	0.0						1 17.00	1 \		
NTS.	С									0.0		200	0.0						TIXO	-   `		
MENTS	С									0.0		200	0.0						1 1200			
MMENTS	С											200	0.0						T IACK			
COMMENTS	С											200	0.0									
COMMENTS	С								\		-											
							LE			ND	IVIDU/	AL FISI	H DAT									
COMMENTS		E#	MD/I	NO H/F	P SF	PECIES		NGTH	WEIG	ND HT	-		H DAT	A	A	GE					MENTS	
		E#	MD/I	NO H/F	P SF	PECIES				ND HT	IVIDU/	AL FISI	H DAT	A	A		AG					
		E#	MD/I	NO H/F	P SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						
		E#	MD/I	NO H/F	P SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						
		E#	MD/I	NO H/F	P SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						
		E#	MD/I	NO H/F	SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						
		E#	MD/I	NO H/F	P SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						
		E#	MD/I	NO H/F	SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						
		E#	MD/I	NO H/F	SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						
		E#	MD/I	NO H/F	SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						
		E#	MD/I	NO H/F	SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						
		E#	MD/I	NO H/F	SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						
		E#	MD/I	NO H/F	SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						
		E#	MD/I	NO H/F	SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						
		E#	MD/I	NO H/F	SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						
		E#	MD/I	NO H/F	SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						
		E#	MD/I	NO H/F	SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						
		E#	MD/I	NO H/F	SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						
		E#	MD/I	NO H/F	SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						
		E#	MD/I	NO H/F	SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						
		E#	MD/I	NO H/F	SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						
		E#	MD/I	NO H/F	SF	PECIES		NGTH	WEIG	ND HT	IVIDU/	AL FISI	H DAT	A	A	GE						



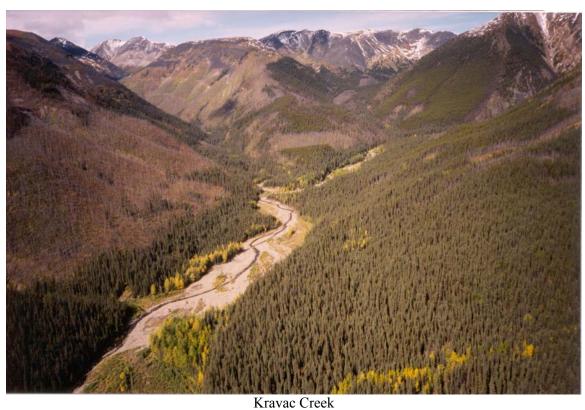
Kravac Creek
Site 19: View upstream from bottom of site.
(Roll BP6 - Exp 15; CD 2 – Im 90)



Kravac Creek
Site 19: Impassable falls immediately upstream of site.
(Roll BP6 - Exp 18; CD 2 – Im 93)



Kravac Creek
Site 19: Aerial view upstream from Prophet River confluence.
(Roll BP6 - Exp 23; CD 2 – Im 96)



Site 19: Upstream aerial view from Prophet River confluence.

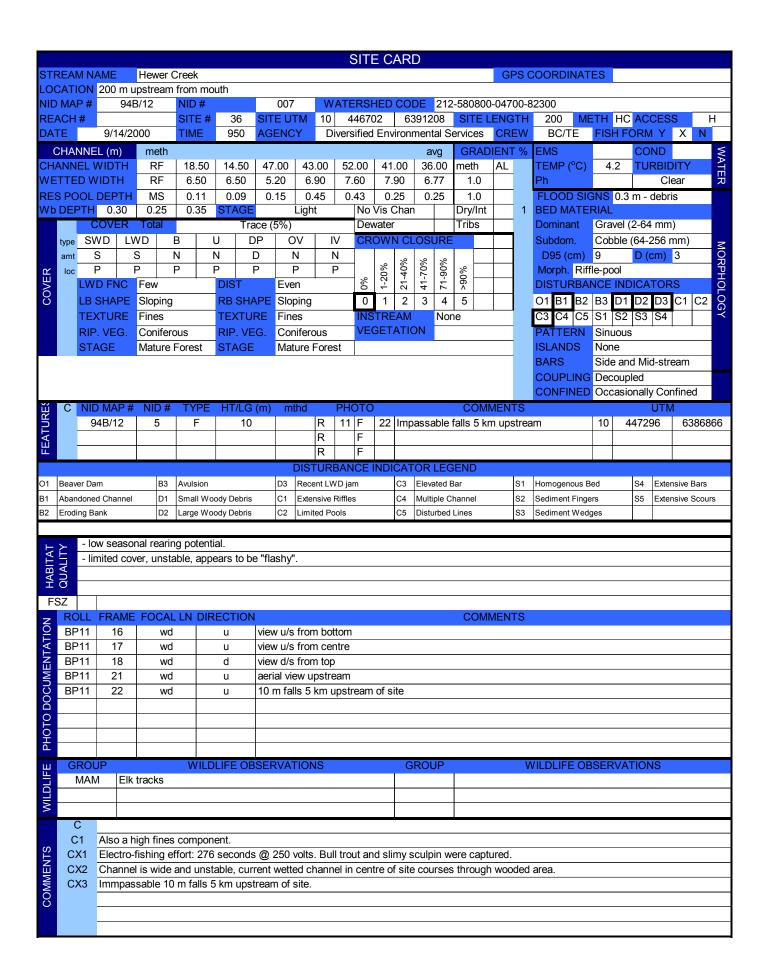
(Roll BP6 - Exp 21; CD 2 – Im 95)

## APPENDIX XXXVIII

### **HEWER CREEK**

(212-580800-04700-82300)

## **Sample Site 36**



									FI	SH	COLL	ECTIO	N FOF	₹M					_			
		M NAI	ME	Hev	ver C	reek											LAKE		STRE			ETLAND
LOC				200	m u	pstream	from m							RSHE					-04700			
WA <sup>3</sup>	ΓER	BOD'	Y ID						ILP MAF	>		ILP	#		SITI	E/LA	KE C	ARD A	TTACH	HED	XY	N
PRO	)JE(	CT ID		E	3esa	-Prophet	Overv	/iew	<b>REACH</b>	#		SIT	E#	36	FISI	H PE	RMIT	- #		SC200	00-021	-
DAT	Έ		9/14	1/2000	0	to 9	9/14/20	000	AGENC	Y	Diversif	ied Envir	onmenta	Servic	es	CRE	EW	E	3C/TE		RE-SAI	MPLE
													STRE	AM CO	NDITION	INC						
0	S	ITE#	NI	D MA	\P #	NID#		SITE	UTM		METH	OD/NO.	TEMP	CON		_			COM	MEN.	TS	
$\Xi$		36		04~/1	2	007	10	446700	2.639120	10	EF	1 1		CON								
Ē		30		94g/1	_	007	10.4	440702	2.039120	00	EF	1	4.2		_	,						
SITE / METHOD																						
믣																						
S																						
	OIT	- <i>4</i>	MTD	NIO	LL/D	ODEOU	-0 <b>I</b> 0	TAOE	405	ΤΟ.	TAL NO	NAIN I I	\	B 4 A V	1.01./	>	FIOL	LAOT		001	AN ACNITA	<u> </u>
	SIT		MTD/		H/P		ES   S	TAGE	AGE	10	TAL NO		V (mm)		LN (m	m)		I ACT		CON	/MENTS	5
R	3		EF/		1	BT		NS			1		15		315			aring				
MA	3	6	EF/	1	1	CCG	i	NS			1	/	'2		72		Rea	aring				
FISH SUMMARY																						
S																						
SH																						
ш																						
												<u> </u>										
GEAR SPECS																			IFICAT			
SPE	С	SITE	# ME	D/NO	H/P	DATE	IN	TIME	IN DA	TE C	DUT TIN	ME OUT	NET T	YPE	_ENG1	ГН	DE	PTH	MESH	SIZE	SET	HAB
ď																						
ÄΕ	-																					
0														0110								
	_	OITE	-44 B A E	2/NO	LL/D	TIME	NI T	FINAL O				ER SPEC			NOL	\ (O)		-DEO	DI OF	- 1 .	44165	MDI
	С	36	# ME	F/1	H/P	0953		1013		F SE 276		ENGTH	WID7 6.8		NCL O	VOI 25		FREQ 60	PLSE		MAKE Coffelt	MDL Mk X
		30																				I IVIN A
10	C			. , ,	•	0000	<u> </u>	1013	'	210		200	0.0		U	20	00	00	rixec		Jonon	
STS	С			, .	' '	0000	,	1013	'   	210		200	0.0			20	50	00	rixec		7011010	
MENTS	С			, ,		0000	,	1013	'   	210		200	0.0			20		00	FIXEC		Jonak	
OMMENTS	С				'	0000	,	1013	<u>'                                    </u>	210		200	0.0			20	0	00	rixec			
COMMENTS	С							1013	'   	210		200	0.0			20	50		rixec			
COMMENTS	C					0000	,	1013								20			Fixed		JOHON TO THE PROPERTY OF THE P	
		E # 1								ND	IVIDU	AL FISI	H DAT		AGE							
COMMENTS		E# N	MD/NC			PECIES	LEN	IGTH		ND HT			H DAT	A			AGE				MENTS	
					SP		LEN (m	GTH	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A	AGE	E#				COMN	MENTS	
	SIT	6	MD/NC	H/P	SP	PECIES	LEN (m	IGTH Inm)	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A TR S	AGE AMPL	E#	AGE			COMN	1ENTS	
	SIT	6	MD/NC	) H/P	SP	PECIES	LEN (m	IGTH Inm)	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A TR S	AGE AMPL	E#	AGE			COMN	1ENTS	
	SIT	6	MD/NC	) H/P	SP	PECIES	LEN (m	IGTH Inm)	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A TR S	AGE AMPL	E#	AGE			COMN	1ENTS	
	SIT	6	MD/NC	) H/P	SP	PECIES	LEN (m	IGTH Inm)	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A TR S	AGE AMPL	E#	AGE			COMN	1ENTS	
	SIT	6	MD/NC	) H/P	SP	PECIES	LEN (m	IGTH Inm)	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A TR S	AGE AMPL	E#	AGE			COMN	1ENTS	
	SIT	6	MD/NC	) H/P	SP	PECIES	LEN (m	IGTH Inm)	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A TR S	AGE AMPL	E#	AGE			COMN	1ENTS	
	SIT	6	MD/NC	) H/P	SP	PECIES	LEN (m	IGTH Inm)	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A TR S	AGE AMPL	E#	AGE			COMN	1ENTS	
	SIT	6	MD/NC	) H/P	SP	PECIES	LEN (m	IGTH Inm)	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A TR S	AGE AMPL	E#	AGE			COMN	1ENTS	
	SIT	6	MD/NC	) H/P	SP	PECIES	LEN (m	IGTH Inm)	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A TR S	AGE AMPL	E#	AGE			COMN	1ENTS	
	SIT	6	MD/NC	) H/P	SP	PECIES	LEN (m	IGTH Inm)	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A TR S	AGE AMPL	E#	AGE			COMN	1ENTS	
	SIT	6	MD/NC	) H/P	SP	PECIES	LEN (m	IGTH Inm)	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A TR S	AGE AMPL	E#	AGE			COMN	1ENTS	
	SIT	6	MD/NC	) H/P	SP	PECIES	LEN (m	IGTH Inm)	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A TR S	AGE AMPL	E#	AGE			COMN	1ENTS	
	SIT	6	MD/NC	) H/P	SP	PECIES	LEN (m	IGTH Inm)	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A TR S	AGE AMPL	E#	AGE			COMN	1ENTS	
	SIT	6	MD/NC	) H/P	SP	PECIES	LEN (m	IGTH Inm)	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A TR S	AGE AMPL	E#	AGE			COMN	1ENTS	
	SIT	6	MD/NC	) H/P	SP	PECIES	LEN (m	IGTH Inm)	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A TR S	AGE AMPL	E#	AGE			COMN	1ENTS	
	SIT	6	MD/NC	) H/P	SP	PECIES	LEN (m	IGTH Inm)	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A TR S	AGE AMPL	E#	AGE			COMN	1ENTS	
	SIT	6	MD/NC	) H/P	SP	PECIES	LEN (m	IGTH Inm)	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A TR S	AGE AMPL	E#	AGE			COMN	1ENTS	
	SIT	6	MD/NC	) H/P	SP	PECIES	LEN (m	IGTH Inm)	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A TR S	AGE AMPL	E#	AGE			COMN	1ENTS	
	SIT	6	MD/NC	) H/P	SP	PECIES	LEN (m	IGTH Inm)	WEIGI	ND HT	IVIDU	AL FISI	H DAT	A TR S	AGE AMPL	E#	AGE			COMN	1ENTS	



Hewer Creek
Site 36: View downstream from top of site.
(Roll BP11 - Exp 18; CD 3 - Im 189)



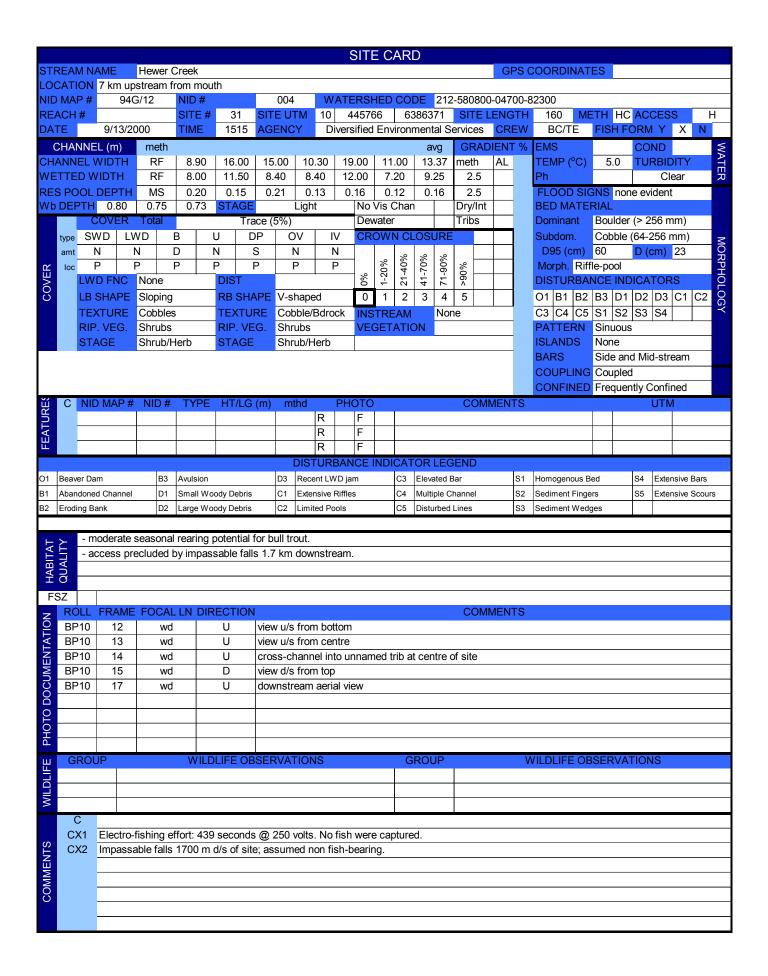
Hewer Creek Site 36: Upstream aerial view. (Roll BP11 - Exp 21; CD 3 - Im 190)

## **APPENDIX XXXIX**

#### **HEWER CREEK**

(212 - 580800 - 04700 - 82300)

## **Sample Site 31**



									FI	ISH	COLL	ECTIO	N FOF	RM								
STF	REA	M NA	AME	He	wer C	Creek											LAKE	X	STRE	AM	WE	ETLAND
LOC	CATI	ON		7	m up	stream fi	rom m	nouth					WATE	RSHE	ED CC	DE	212-	580800	-04700	)-8230	0	
WA	TER	BOE	OY IE	)					ILP MA	Р		ILP	#		SIT	ΓE/LA	KE C	ARD A	TTAC	HED	ΧY	N
PRO	DJE	CT II	D		Besa	-Prophet	: Over	rview	REACH	l #		SIT	E#	31	FIS	SH PE	ERMI	Γ#		SC20	00-021	
DAT	ГΕ		9	/13/20	00	to !	9/13/2	2000	AGENC	Ϋ́	Diversif	ed Enviro	onmental	Servi	ces	CRE	ΞW	E	3C/TE		RE-SAN	MPLE
	0	ıTE	ш	NUD M	IAD#	NUD #		OITE	1.1784		NACTU	0D/N0	STREA	AM CC	NDIT	ION			001	48.45.	TO	
OD	S	ITE:	#	NID M	AP#	NID#		SILE	UTM		METH	OD/NO.	TEMP	CON	v Tu	JRB			COI	MMEN	15	
Ĕ		31		94G	/12	004	10	0.445766	6.638637	71	EF	1	5.0			С						
ME																						
Ε/																						
SITE / METHOD																						
•																						
	SIT	Έ#	MT	TD/NO	H/P	SPECI	ES	STAGE	AGE	TO	TAL NO	MIN LI	V (mm)	MAX	( LN (r	mm)	FISH	1 ACT		CO	MMENTS	3
≿	3	1	Е	EF/1	1	NFC	;				0											
FISH SUMMARY																						
MN																						
SU																						
T.																						
Ĕ																						
SS															N	ET / T		SPEC	IFICAT	TIONS		
SPE	С	SIT	E#	MD/N	) H/P	DATE	IN	TIME	IN DA	TE (	DUT TIM	/IE OUT	NET TY	YPE	LENG	HT	DE	PTH	MESI	H SIZE	SET	HAB
R.																						
GEAR SPECS																						
O										OTE	OFIGUE	D ODEC	IEIO A EI	ONO								
	С	CIT	г #	MD/N		TIME	INI	TIME C		F SE		R SPEC	WIDT		ENCL	VO	u T	FREQ	PLS		MAKE	MDL
	C	3		EF/1	7 n/F	1520		1540		439		160	9.2		O	25		60	Fixe		Coffelt	Mk X
(0	С	-				1320	,	1040	,	438	)	100	9.2			20	00	- 00	LIXC	u   '	JOHOR	WIKX
NTS	С					1320	,	1040	,	438		100	9.2			20	50		TIXE	u į	Johnst	WIKX
MENTS	С					1320		1340	,	433		160	9.2						TIXE	<u>u                                      </u>	Ooncit	I WIK X
OMMENTS	С					1020		1340		439		160	9.2			20	50		TIAC	<u>u   '</u>		IVIICA
COMMENTS	С					1020		1340		400		160	9.2			20			TIAC	u   '		
COMMENTS	С					1320		1040		ND		AL FISI					50		Tixe	<u>u   '</u>		MICA
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						MINA
COMMENTS			MD/	NO H/		PECIES	LEI			ND HT			H DAT	A		E	AG				MENTS	MINA
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						MIKA
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						WIICX
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						
			MD/				LEI	NGTH	WEIG	ND HT	IVIDUA	AL FISI	H DAT	A	AG	E						



Hewer Creek
Site 31: View upstream from bottom of site.
(Roll BP10 - Exp 12; CD 3 - Im 158)



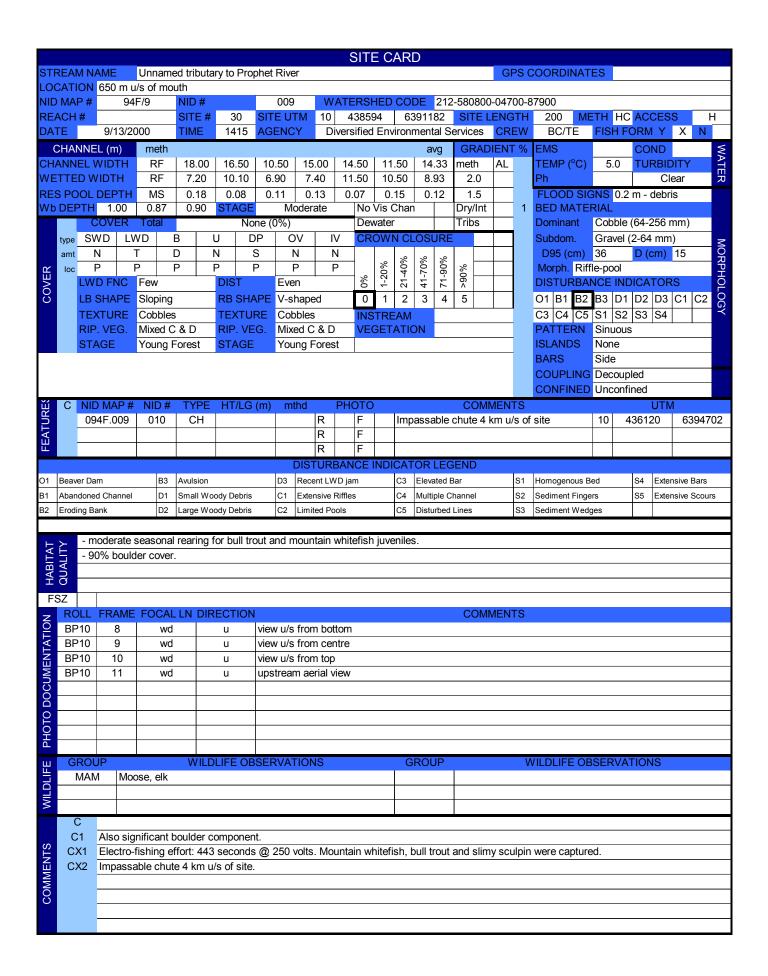
Hewer Creek
Site 31: Downstream aerial view.
(Roll BP10 - Exp 17; CD 3 - Im 162)

## **APPENDIX XL**

### UNNAMED TRIBUTARY TO PROPHET RIVER

(212 - 580800 - 04700 - 87900)

## Sample Site 30



								F	ISH	COL	LECTIO	N FOR	RM								
STF	REAN	M NA	ME	Un	nam	ned tributa	ry to Prophet	River								LAKE	Х	STREAM	M	WE	TLAND
LOC				650	0 m	u/s of mo	uth						RSH					-04700-8			
WA	TER	BOD	Y ID					ILP MA	Р		ILP	#		S	ITE/LA	KE CA	RD A	TTACHE		XY	N
PRO	DJE	CT ID		Ве	sa-F	Prophet Ov	verview	REACH	#		SIT	E#	30	F	ISH PE	RMIT	#	S	C200	00-021	
DAT	Έ		9/	13/200	00	to !	9/13/2000	AGENC	Ϋ́	Divers	ified Envir	onmental	Serv	rices	CRE	EW	1	BC/TE		RE-SAN	<b>IPLE</b>
	_	<i>"</i>	Π,		۸.	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	OITE			NAET!	100,010	STREA	AM C	ONDI	TION			00141			
ОC	S	ITE#	:   N	NID M	AP #	# NID#	SILE	UTM		METE	HOD/NO.	TEMP	СО		TURB			COMM	IEN I	S	
Ĭ		30		94F	/9	009	10.43859	4 639118	32	EF	1	5.0	00	71.	С						
ME.											<u> </u>	0.0									
<u> </u>																					
SITE / METHOD																					
(O)																				-	
	SIT	E#	MTI	D/NO	H/I	P SPECI	ES STAGE	AGE	TO	TAL NO	O MIN L	N (mm)	MA	X LN	(mm)	FISH	ACT		CON	MENTS	3
>		0		F/1	1					2		22		139		Rea					
SUMMARY	3			F/1	1		NS			2		21		198		Rea					
MM	3	0	EI	F/1	1	CCC	S NS			1	6	88		68		Rear					
SUI							- 110			-							9				
FISH																				-	
H																				-	
8														١	NET / T	RAP S	PEC	IFICATIO	NS		
GEAR SPECS	С	SITE	# N	/ID/NC	) H/I	P DATE	IN TIME	IN DA	TE (	T TUC	IME OUT	NET TY	/PE		IGTH	DEP		MESH S		SET	HAB
S																					
ΞAΕ																					
GE																					
								ELE	CTF	ROFISH	IER SPEC	IFICATI	ONS								
	С	SITE	# N	/ID/NC	) H/I	P TIME	IN TIME C	OUT E	F SE	EC L	ENGTH	WIDT	Н	ENC	L VO	LT F	REQ	PLSE	N	//AKE	MDL
		30	,	EF/1	1	1418	3 1500	)	443	3	200	8.9		0	25	50	60	Fixed	C	Coffelt	Mk X
S	С					<u>'</u>									•			<u>'</u>			
COMMENTS																					
ME																					
OM																					
C																					
									ND	IVIDU	IAL FISI	H DAT	Д								
С	SIT	F# N	MD/N	10 H/F	) S	PECIES	LENGTH	WEIG	HT	SEX	MATU	IR		A(	GE			CC	)MI/	IENTS	
	011	_ "   '	VIDIT	10 1111		LOILO	(mm)	(gms	s)	OLX	IVII C	S		SAM	PLE#	AGE			JIVIIV	LIVIO	
	3	0	EF/	1 1		BT	198					Sc	ale	30	0-1	3+					
	3		EF/			ВТ	121						ale		)-2	1+					
	3	0	EF/		_	MW	139					Sc	ale	30	0-3	1+					
	3		EF/			MW	122				1	Sc	ale	30	0-4	1+					
	3	0	EF/	1 1		CCG	68														
								-			1										
				-				-			1						-				
					-						1										
					1						1										
											+										
					+						+						-				
											+						-				
					4					-							-				



Unnamed tributary to Prophet River Site 30: View upstream from bottom of site. (Roll BP10 - Exp 8; CD 3 - Im 154)



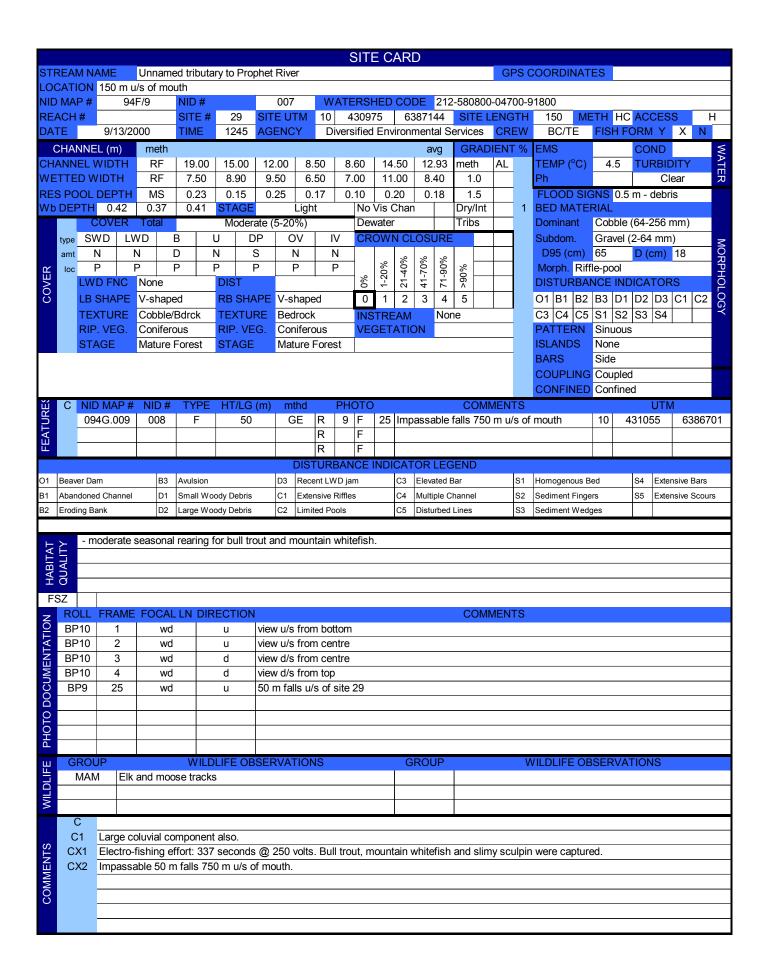
Unnamed tributary to Prophet River Site 30: Upstream aerial view. (Roll BP10 - Exp 11; CD 3 - Im 157)

## **APPENDIX XLI**

### UNNAMED TRIBUTARY TO PROPHET RIVER

(212 - 580800 - 04700 - 91800)

## Sample Site 29



								FI	ISH	COLL	ECTIO	N FOF	RM								
STF	REAM	1 NAME		Unn	ame	d tributar	y to Prophet	River								LAKE	Х	STREA	.M	WE	TLAND
LOC	CATIO	ON	-	150	m u/	s of mou	th					WATE	ERSH	ED C	ODE	212-58	0080	-04700-9	1800		
WA	TERI	3ODY I	D					ILP MAI	Р		ILP	#		S	SITE/LA	KE CA	RD A	TTACH	ED	ΧY	N
PRO	DJEC	T ID		Besa	a-Pro	ophet Ov	erview	REACH	l #		SIT	E#	29	F	ISH PE	RMIT	#	S	C200	0-021	
DAT	Έ		9/13/2				/13/2000	AGENC		Diversifi	ed Enviro	nmenta	l Servi	ices	CRE	EW	F	BC/TE		RE-SAN	/IPLE
<i></i>	_					.0						STRE						- 0,		0,	
Q	SI	TE#	NID	MA	P#	NID#	SITE	UTM		METH	DD/NO.							COM	MENT	S	
SITE / METHOD												TEMP	CO	N -	TURB						
島		29	9	4F/9	9	007	10.43097	5.638714	14	EF	1	4.5			С						
≅																					
Ε/																					
H																					
0,																					
	SITE	= #  M	TD/N	IO I	H/P	SPECII	S STAGE	AGE	TO	TAL NO	MIN LI	V (mm)	MA	XIN	(mm)	FISH	ACT		COM	IMENTS	3
	29		EF/1		1	BT	NS	7.02		3		37	11111	300		Rea			00		
FISH SUMMARY	29		EF/1		1	MW	NS			2		50		155		Rear					
¥					-																
$\leq$	29	)	EF/1		1	CCG	NS			1	8	6		86		Rea	ing				
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동																					
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Unnamed tributary to Prophet River Site 29: View downstream from top of site. (Roll BP10 - Exp 4; CD 3 - Im 149)



Unnamed tributary to Prophet River Site 29: 50 m falls upstream of site. (Roll BP9 - Exp 25; CD 3 - Im 150)

# APPENDIX XLII

### PROJECT OVERVIEW MAP

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