
Appendix A2

FDIS Summary and Photographs

FDIS Site Card

Watershed Code: 900-349300-00000-00000-0000-0000-000-000-000-000-000

Reach # 41.0 ILP Map # ILP # Site 1

PROJECT

Project Name: Mainland Coast 1:50000 Overview - 2000
Stream Name (gaz.): TOBA RIVER
Project Watershed Code: 900-349300-00000-00000-0000-0000-000-000-000-000-000

Project Code: 4497

WATERSHED

Gazetted Name: TOBA RIVER Local Name:
Watershed Code: 900-349300-00000-00000-0000-0000-000-000-000-000-000
ILP Map#: ILP #: NID Map #: 92K/9 NID #: 1 Reach #: 41.0 Site #: 1
Field UTM(Zone/East/North/Method) GIS UTM(Zone/East/North) Site Lg: 100 Method: HC Access: H
10 427500 5607300 GPU 10 427555 5607282 Ref. Name:
Date: 2000/09/13 Time: 10:00 Agency: C060 Crew: JB/FH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg
Channel Width (m):	GE	75.00	60.00	65.00	70.00	75.00	65.00	80.00				70.00
Wetted Width (m):	GE	30.00	20.00	28.00	35.00	40.00	30.00	40.00				31.86
Pool Depth (m):	GE	0.40	0.50	0.30	0.25		0.30	0.50	0.40			0.38

	Gadient %		Mtd	Avg
Method I:	0.5	1.0	C	0.83
Method II:	1.0		C	

No Vis.Ch.: ☐ Intermittent: ☐

Dw: ☐ Tribs.: ☐

Wb Depth:	1.3	1.5	1.0	Avg: 1.27	Method: MS	Stage: L ☐ M ☒ H ☐
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Wb Depth: 1.3 1.5 1.0 Avg: 1.27 Method: MS Stage: L ☐ M ☒ H ☐

No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	S	N	D	T	T	N
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

LWD: F DIST: C

LB SHP: S

Texture: ☒ F ☒ G ☐ C ☐ B ☐ R ☐ A

RIP: M

STG: MF

RB SHP: S

Texture: ☒ F ☒ G ☐ C ☐ B ☐ R ☐ A

RIP: M

STG: MF

WATER

EMS:

Temp: 7

pH: 6.5

Flood Signs: RAFTED DEBRIS

Method: T3

Method: P4

Method: GE

Req #:

Cond.: 10

Turb.: ☐ T ☒ M ☐ L ☐ C

Method: S4

Method: GE

MORPHOLOGY

Bed Material: Dominant: G Subdom: C
D95: 20.0 D (cm): 20.00 Morph: RP
Pattern: IR
Islands: O
Coupling: PC
Confinement: OC
FSZ ☐

O1 B1 B2 B3 D1 D2 D3
DISTURBANCE INDICATORS
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Bars: ☐ N ☒ SIDE ☒ DIAG ☒ MID ☒ SPAN ☐ BR

HABITAT QUALITY

Name	Comments
Other	Low gradient with excellent access makes this stream prime fish habitat.
Rearing Habitat	Majority of rearing habitat is along streambank in the form of LWD, pools and undercut banks
Spawning Habitat	Excellent spawning habitat, majority of substrate is gravel with some fines and cobble.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 36 F: 24	STD	U	
R: 36 F: 25	STD	D	

FDIS Fish Form

Reach # ILP Map # ILP #

Watershed Code: 900-349300-00000-00000-0000-000-000-000-000-000-000 41.0

WATERBODY																
Gazetted Name: TOBA RIVER										Local:						
Project Code: 900-349300-00000-00000-0000-000-000-000-000-000-0																
WS Code: 900-349300-00000-00000-0000-000-000-000-000-000-000																
Waterbody ID:					ILP Map #:					ILP #:		Reach #: 41 -				
Project ID: 4497					Lake/Stream: S					Lake From Date:						
Fish Permit #: FC2000-70					Date: 2000/09/13			To: 2000/09/13			Agency: C060		Crew: JB/FH		Resample: ☐	
SITE / METHOD																
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment						
1	92K/9	1	10	427500	5607300	MAP MT 2	7	10	M							
1	92K/9	1	10	427500	5607300	MAP MT 1	7	10	M							
1	92K/9	1	10	427500	5607300	MAP EF 1	7	10	M							
A. GEAR SETTINGS																
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment									
1	MT	2	1	2000/09/13	10:00	2000/09/13	17:00									
1	MT	1	1	2000/09/13	10:00	2000/09/13	17:00									
1	EF	1	1	2000/09/13	10:00	2000/09/13	10:30									
C. ELECTROFISHER SPECIFICATIONS																
Site#	MTD/NO	H/P	Encl	Sec	Lnth	Width	Voltage	Frequency	Pulse	Make	Model					
1	EF	1	1	O	512	100.0	2.0	900	50	6	SMITH-ROOT					
FISH SUMMARY																
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment							
1	MT	2	1	NFC		0										
1	MT	1	1	NFC		0										
1	EF	1	1	DV	J	1	44	44	R							
1	EF	1	1	CH	J	5	61	80	R							
1	EF	1	1	CO	J	11	39	71	R							
INDIVIDUAL FISH DATA																
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment	
								Str/Smpl#	Age		Str/Smpl#					
1	EF	1	1	CO	69	4.6	U	U	FR	1		1	FR	2		fish form #018516
1	EF	1	1	CH	61	2.6	U	U								fish form #018516
1	EF	1	1	CH	62	2.8	U	U								fish form #018516
1	EF	1	1	CO	71	3.5	U	U	FR	3		2	FR	4		fish form #018516
1	EF	1	1	CH	80	5.1	U	U	FR	5		3	FR	6		fish form #018516
1	EF	1	1	CH	71	4.0	U	U								fish form #018516
1	EF	1	1	CO	55	1.7	U	U								fish form #018516
1	EF	1	1	CO	54	1.8	U	U								fish form #018516
1	EF	1	1	CO	42	1.0	U	U								fish form #018516
1	EF	1	1	CO	52	1.6	U	U								fish form #018516
1	EF	1	1	CO	44	1.3	U	U								fish form #018516
1	EF	1	1	CO	51	1.5	U	U								fish form #018516
1	EF	1	1	CH	74	5.1	U	U								fish form #018516
1	EF	1	1	CO	42	.8	U	U								fish form #018516
1	EF	1	1	CO	52	1.5	U	U								fish form #018516
1	EF	1	1	CO	39	.6	U	U								fish form #018516
1	EF	1	1	DV	44	.7	U	U				4				possible sockeye (fish form #018516)

Upstream photo of watershed code 900-349300, Reach 41, Site 1. Photo archived on CD 4865, Image #73.



Downstream photo of watershed code 900-349300, Reach 41, Site 1. Photo archived on CD 4865, Image #74.



FDIS Site Card

Watershed Code: 900-349300-00000-00000-0000-000-000-000-000-000-000

Reach #54.0

ILP Map #

ILP #

Site2

C O M M E N T S	
Section	Comments
WATER	conductivity <10ms
MORPHOLOGY	Cascades all throughout this reach
SITE CARD	High number of fines also present from glacial meltwater

FDIS Fish Form

Reach # ILP Map # ILP #

Watershed Code: 900-349300-00000-00000-0000-000-000-000-000-000-000

54.0

WATERBODY												
Gazetted Name: TOBA RIVER						Local:						
Project Code: 900-349300-00000-00000-0000-000-000-000-000-0												
WS Code: 900-349300-00000-00000-0000-000-000-000-000-000												
Waterbody ID:			ILP Map #:			ILP #:			Reach #: 54 -			
Project ID: 4497						Lake/Stream: S			Lake From Date:			
Fish Permit #:		FC2000-70		Date: 2000/09/13		To: 2000/09/13		Agency: C060		Crew: JB/FH		Resample: ☐
SITE / METHOD												
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd		MTD/NO	Temp	Cond	Turbid	Comment			
2	92J/12	2	10	431350	5616250	MAP	EF	1	5	T	conductivity <10ms	
A. GEAR SETTINGS												
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment					
2	EF	1	2000/09/13	12:45	2000/09/13	13:05						
C. ELECTROFISHER SPECIFICATIONS												
Site#	MTD/NO	H/P	Encl	Sec	Lnth	Wdth	Voltage	Frequency	Pulse	Make	Model	
2	EF	1	1	O	425	110.0	2.0	900	80	6	SMITH-ROOT	12B-POW
FISH SUMMARY												
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment			
2	EF	1	1	NFC		0						
COMMENTS												
Section			Comments									
WATERBODY			Extremely difficult to shock due to very turbid water and very fast flow.									

Upstream photo of watershed code 900-349300, Reach 54, Site 2. Photo archived on CD 2708, Image #109.



Downstream photo of watershed code 900-349300, Reach 54, Site 2. Photo archived on CD 2708, Image #110.



FDIS Site Card

Watershed Code: 900-349300-03300-00000-00000-00000-00000-00000-00000-00000

Reach # 1.0 ILP Map # ILP # 3 Site 3

PROJECT	
Project Name: Mainland Coast 1:50000 Overview - 2000	Project Code: 4497
Stream Name (gaz.): TOBA RIVER	
Project Watershed Code: 900-349300-00000-00000-00000-00000-00000-00000-00000-00000	

WATERSHED	
Gazetted Name: KLITE RIVER	Local Name:
Watershed Code: 900-349300-03300-00000-00000-00000-00000-00000-00000-00000	
ILP Map#: ILP #: NID Map #: 92K/9 NID #: 3 Reach #: 1.0 Site #: 3	
Field UTM(Zone/East/North/Method) 10 406421 5598607 GPU	GIS UTM(Zone/East/North) 10 406296 5598917
Site Lg: 201	Method: HC Access: H
Ref. Name:	
Date: 2000/09/13 Time: 12:46 Agency: C060 Crew: DM/SP	Fish Crd?: ☒ Incomplete: ☐

CHANNEL																																																														
<table border="1" style="width:100%"> <tr> <th>Mtd</th><th>width</th><th>width</th><th>width</th><th>width</th><th>width</th><th>width</th><th>width</th><th>width</th><th>width</th><th>width</th><th>width</th><th>Avg</th></tr> <tr> <td>Channel Width (m):</td><td>HC</td><td>28.20</td><td>64.10</td><td>32.40</td><td>38.90</td><td>42.10</td><td>39.60</td><td></td><td></td><td></td><td></td><td>40.88</td></tr> <tr> <td>Wetted Width (m):</td><td>HC</td><td>24.00</td><td>31.60</td><td>30.60</td><td>36.70</td><td>29.30</td><td>22.10</td><td></td><td></td><td></td><td></td><td>29.05</td></tr> <tr> <td>Pool Depth (m):</td><td>MS</td><td>0.25</td><td>0.20</td><td>0.15</td><td>0.30</td><td>0.80</td><td>0.20</td><td></td><td></td><td></td><td></td><td>0.32</td></tr> </table>	Mtd	width	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	HC	28.20	64.10	32.40	38.90	42.10	39.60					40.88	Wetted Width (m):	HC	24.00	31.60	30.60	36.70	29.30	22.10					29.05	Pool Depth (m):	MS	0.25	0.20	0.15	0.30	0.80	0.20					0.32	<table border="1" style="width:100%"> <tr> <th>Gadient %</th><th>Mtd</th><th>Avg</th></tr> <tr> <td>Method I: 5.0 6.0</td><td>C</td><td>5.50</td></tr> <tr> <td>Method II:</td><td>C</td><td></td></tr> </table>	Gadient %	Mtd	Avg	Method I: 5.0 6.0	C	5.50	Method II:	C	
Mtd	width	width	width	width	width	width	width	width	width	width	width	Avg																																																		
Channel Width (m):	HC	28.20	64.10	32.40	38.90	42.10	39.60					40.88																																																		
Wetted Width (m):	HC	24.00	31.60	30.60	36.70	29.30	22.10					29.05																																																		
Pool Depth (m):	MS	0.25	0.20	0.15	0.30	0.80	0.20					0.32																																																		
Gadient %	Mtd	Avg																																																												
Method I: 5.0 6.0	C	5.50																																																												
Method II:	C																																																													
<table border="1" style="width:100%"> <tr> <th>Wb Depth:</th><th>1.2</th><th>1.4</th><th>1.1</th></tr> <tr> <td>Avg: 1.23</td><td></td><td></td><td></td></tr> </table>	Wb Depth:	1.2	1.4	1.1	Avg: 1.23				Method: MS Stage: ☒ L ☐ M ☐ H No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐																																																					
Wb Depth:	1.2	1.4	1.1																																																											
Avg: 1.23																																																														
COVER Total: M <table border="1" style="width:100%"> <tr> <th>Type:</th><th>SWD</th><th>LWD</th><th>B</th><th>U</th><th>DP</th><th>OV</th><th>IV</th></tr> <tr> <td>Amount:</td><td>N</td><td>T</td><td>D</td><td>N</td><td>S</td><td>T</td><td>N</td></tr> <tr> <td>Loc: P/S/O:</td><td>☒</td><td>☒</td><td>☒</td><td>☒</td><td>☒</td><td>☒</td><td>☒</td></tr> </table>	Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	N	T	D	N	S	T	N	Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒	CROWN CLOSURE 1 1-20% INSTREAM VEG: N ☒ A ☐ M ☐ V ☐																																					
Type:	SWD	LWD	B	U	DP	OV	IV																																																							
Amount:	N	T	D	N	S	T	N																																																							
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒																																																							
LWD: F DIST: E LB SHP: V Texture: ☐ F ☐ G ☒ C ☒ B ☐ R ☐ A RIP: M STG: MF	RB SHP: V Texture: ☐ F ☐ G ☒ C ☒ B ☐ R ☐ A RIP: M STG: MF																																																													

WATER	
EMS: Temp: 9 pH: 6.4 Flood Signs:	Req #: Cond.: Turb.: ☐ T ☐ M ☒ L ☐ C Method: S4 Method: GE

MORPHOLOGY																																			
Bed Material: Dominant: C Subdom: B D95: 54.0 D (cm): 16.00 Morph: RP Pattern: SI Islands: O Coupling: DC Confinement: UN FSZ ☐	DISTURBANCE INDICATORS <table border="1" style="width:100%"> <tr> <th>O1</th><th>B1</th><th>B2</th><th>B3</th><th>D1</th><th>D2</th><th>D3</th></tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> <tr> <th>C1</th><th>C2</th><th>C3</th><th>C4</th><th>C5</th><th>S1</th><th>S2</th><th>S3</th><th>S4</th><th>S5</th></tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td></tr> </table> Bars: ☐ N ☒ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR	O1	B1	B2	B3	D1	D2	D3	☐	☐	☐	☐	☐	☐	☐	C1	C2	C3	C4	C5	S1	S2	S3	S4	S5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
O1	B1	B2	B3	D1	D2	D3																													
☐	☐	☐	☐	☐	☐	☐																													
C1	C2	C3	C4	C5	S1	S2	S3	S4	S5																										
☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																										

HABITAT QUALITY	
Name	Comments
Cover	Cover is not well complexed.
Spawning Habitat	No spawning gravel observed
Rearing Habitat	Good rearing for char. Lots of boulder cover and velocity is not too extreme.

PHOTOS			
Photo	Foc Lg	Dir	Comments
R: 26 F: 22	STD	U	
R: 26 F: 23	STD	D	

COMMENTS	
Section	Comments

FDIS Site Card

		Reach #	ILP Map #	ILP #	Site
Watershed Code: 900-349300-03300-00000-0000-0000-000-000-000-000-000		1.0			3
WATER	conductivity <10ms				

FDIS Fish Form

Reach # ILP Map # ILP #

Watershed Code: 900-349300-03300-00000-00000-00000-000-000-000-000-000

1.0

WATERBODY															
Gazetted Name: KLITE RIVER										Local:					
Project Code: 900-349300-00000-00000-00000-00000-000-000-000-000-0															
WS Code: 900-349300-03300-00000-00000-00000-000-000-000-000-000															
Waterbody ID:					ILP Map #:					ILP #:		Reach #: 1 -			
Project ID: 4497					Lake/Stream: S					Lake From Date:					
Fish Permit #: FC2000-70			Date: 2000/09/13			To: 2000/09/13			Agency: C060		Crew: DM/SP		Resample: ☐		
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
3	92K/9	3	10	406421	5598607	GPU MT 2	9		L	conductivity <10ms					
3	92K/9	3	10	406421	5598607	GPU MT 1	9		L	conductivity <10ms					
3	92K/9	3	10	406421	5598607	GPU EF 1	9		L	conductivity <10ms					
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
3	MT 2	1	2000/09/13	14:15	2000/09/13	16:45									
3	MT 1	1	2000/09/13	14:15	2000/09/13	16:35									
3	EF 1	1	2000/09/13	12:50	2000/09/13	13:32									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Lnth	Width	Voltage	Frequency	Pulse	Make	Model				
3	EF	1	1	O	616	201.0	1.5	1000	90	6	SMITH-ROOT				
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
3	MT	2	1	NFC		0									
3	MT	1	1	CO	J	1	71 71	R							
3	EF	1	1	RB	A	2+	132 132	R							
3	EF	1	1	CO	J	3	70 83	R							
3	EF	1	1	CC	J	11	65 101	R							
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smpl#	Age		Str/Smpl#				
3	EF	1	1	CO	70	5.3	U	U							
3	EF	1	1	CO	83	6.1	U	U							
3	EF	1	1	CO	72	4.8	U	U							
3	EF	1	1	CC	81	5.5	U	U							
3	EF	1	1	CC	101	9.0	U	U							
3	EF	1	1	CC	99	9.1	U	U							
3	EF	1	1	CC	82	7.7	U	U							
3	EF	1	1	CC	71	4.1	U	U							
3	EF	1	1	CC	78	5.4	U	U							
3	EF	1	1	CC	85	7.2	U	U							
3	EF	1	1	CC	65	3.1	U	U							
3	EF	1	1	CC	70	4.4	U	U							
3	EF	1	1	CC	65	3.6	U	U							
3	EF	1	1	CC	71	3.5	U	U							
3	EF	1	1	RB	132	20.0	U	U	SC	1	2+	1	FR	1	26, also photo 25
3	MT	1	1	CO	71	5.2	U	U							

Upstream photo of watershed code 900-349300-03300, Reach 1, Site 3. Photo archived on CD 2988, Image #33.



Downstream photo of watershed code 900-349300-03300, Reach 1, Site 3. Photo archived on CD 2988, Image #34.



FDIS Site Card

Watershed Code: 900-349300-03300-00000-0000-0000-000-000-000-000-000

Reach # 15.0 ILP Map # ILP # 4497 Site 4

PROJECT																																																																														
Project Name: Mainland Coast 1:50000 Overview - 2000										Project Code: 4497																																																																				
Stream Name (gaz.): TOBA RIVER																																																																														
Project Watershed Code: 900-349300-00000-00000-0000-0000-000-000-000-000-000																																																																														
WATERSHED																																																																														
Gazetted Name: KLITE RIVER										Local Name:																																																																				
Watershed Code: 900-349300-03300-00000-0000-0000-000-000-000-000-000																																																																														
ILP Map#:		ILP #:		NID Map #: 92K/9		NID #: 4		Reach #: 15.0		Site #: 4																																																																				
Field UTM(Zone/East/North/Method)					GIS UTM(Zone/East/North)					Site Lg: 135		Method: HC		Access: H																																																																
10		403760		5607466		GPU		10		403673		5607186		Ref. Name:																																																																
Date: 2000/09/13		Time: 15:00		Agency: C060		Crew: DM/SP		Fish Crd?: ☒		Incomplete: ☐																																																																				
CHANNEL																																																																														
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HABITAT QUALITY																																																																														
Name					Comments																																																																									
Spawning Habitat					No spawning gravel observed.																																																																									
OverWinter Habitat					Good for overwintering due to abundance of deep pools.																																																																									
Rearing Habitat					Good rearing habitat. Lots of cover.																																																																									
PHOTOS																																																																														
Photo		Foc Lg		Dir		Comments																																																																								
R:	31	F:	2	STD		U																																																																								
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COMMENTS																																																																														
Section					Comments																																																																									

FDIS Site Card

		Reach #	ILP Map #	ILP #	Site
Watershed Code: 900-349300-03300-00000-0000-0000-000-000-000-000-000		15.0			4
WATER	conductivity <10ms				

FDIS Fish Form

Reach # ILP Map # ILP #

Watershed Code: 900-349300-03300-00000-00000-00000-000-000-000-000-000

15.0

WATERBODY																	
Gazetted Name: KLITE RIVER										Local:							
Project Code: 900-349300-00000-00000-00000-00000-000-000-000-000-0																	
WS Code: 900-349300-03300-00000-00000-00000-000-000-000-000-000																	
Waterbody ID:				ILP Map #:				ILP #:		Reach #:		15 -					
Project ID: 4497								Lake/Stream: S		Lake From Date:							
Fish Permit #: FC2000-70				Date: 2000/09/13		To: 2000/09/13		Agency: C060		Crew: DM/SP		Resample: ☐					
SITE / METHOD																	
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment							
4	92K/9	4	10	403760	5607466	GPU EF 1	8		L	conductivity <10ms							
A. GEAR SETTINGS																	
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment										
4	EF	1	2000/09/13	15:00	2000/09/13	15:40											
C. ELECTROFISHER SPECIFICATIONS																	
Site#	MTD/NO	H/P	Encl	Sec	Lnth	Width	Voltage	Frequency	Pulse	Make	Model						
4	EF	1	1	O	501	135.0	1.0	900	100	6	SMITH-ROOT	12B-POW					
FISH SUMMARY																	
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment							
4	EF	1	1	DV	J	2	95	103	R								
4	EF	1	1	RB	J	2	132	163	R								
INDIVIDUAL FISH DATA																	
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment		
								Str/Smpl#	Age		Str/Smpl#						
4	EF	1	1	DV	95	7.4	U	U								fish form #018513	
4	EF	1	1	DV	103	8.8	U	U	FR	1		1	TP	1	31	4	fish form #018513
4	EF	1	1	RB	163	49.7	U	U	SC	2	2+		FR	2			fish form #018513
4	EF	1	1	RB	132	21.8	U	U	SC	3	2+		FR	3			fish form #018513

Upstream photo of watershed code 900-349300-03300, Reach 15, Site 4. Photo archived on CD 2988, Image #62.



Downstream photo of watershed code 900-349300-03300, Reach 15, Site 4. Photo archived on CD 2988, Image #63.



FDIS Site Card

Watershed Code: 900-349300-17500-00000-00000-00000-00000-00000-00000-00000-00000

Reach # 1.0 ILP Map # ILP # 5 Site 5

PROJECT																																																																																																																																						
Project Name: Mainland Coast 1:50000 Overview - 2000										Project Code: 4497																																																																																																																												
Stream Name (gaz.): TOBA RIVER																																																																																																																																						
Project Watershed Code: 900-349300-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000																																																																																																																																						
WATERSHED																																																																																																																																						
Gazetted Name: BOYLE CREEK										Local Name:																																																																																																																												
Watershed Code: 900-349300-17500-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000																																																																																																																																						
ILP Map#:		ILP #:		NID Map #: 92K/9			NID #: 5		Reach #: 1.0		Site #: 5																																																																																																																											
Field UTM(Zone/East/North/Method)					GIS UTM(Zone/East/North)					Site Lg: 103		Method: HC		Access: H																																																																																																																								
10		411136		5596151		GPU		10		410938		5596215		Ref. Name:																																																																																																																								
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Pattern: IR						DISTURBANCE INDICATORS			☐ ☐ ☐ ☐ ☐ ☐ ☐																																																																																																																													
Islands: O									☐ ☐ ☐ ☐ ☐ ☐ ☐																																																																																																																													
Coupling: DC									☐ ☐ ☐ ☐ ☐ ☐ ☐																																																																																																																													
Confinement: UN									☐ ☐ ☐ ☐ ☐ ☐ ☐																																																																																																																													
FSZ ☐									Bars: ☐ N ☒ SIDE ☐ DIAG ☒ MID ☐ SPAN ☐ BR																																																																																																																													
HABITAT QUALITY																																																																																																																																						
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FDIS Site Card

Watershed Code: 900-349300-17500-00000-0000-0000-000-000-000-000-000

Reach #

ILP Map #

ILP #

Site

1.0

5

COMMENTS	
Section	Comments
WATER	conductivity <10ms

FDIS Fish Form

Reach # ILP Map # ILP #

Watershed Code: 900-349300-17500-00000-00000-0000-000-000-000-000-000

1.0

WATERBODY															
Gazetted Name: BOYLE CREEK										Local:					
Project Code: 900-349300-00000-00000-00000-000-000-000-000-000-0															
WS Code: 900-349300-17500-00000-00000-0000-000-000-000-000-000															
Waterbody ID:				ILP Map #:				ILP #:		Reach #: 1 -					
Project ID: 4497				Lake/Stream: S				Lake From Date:							
Fish Permit #: FC2000-70				Date: 2000/09/13		To: 2000/09/13		Agency: C060		Crew: DM/SP		Resample: ☐			
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
5	92K/9	5	10	411136	5596151	GPU MT 2	12		C	conductivity <10ms					
5	92K/9	5	10	411136	5596151	GPU MT 1	12		C	conductivity <10ms					
5	92K/9	5	10	411136	5596151	GPU EF 1	11.5		C	conductivity <10ms					
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
5	MT 2	1	2000/09/13	12:05	2000/09/13	16:50									
5	MT 1	1	2000/09/13	12:05	2000/09/13	16:50									
5	EF 1	1	2000/09/13	11:10	2000/09/13	12:00									
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Lnth	Width	Voltage	Frequency	Pulse	Make	Model				
5	EF 1	1	1	O	409	120.0	1.5	1000	70	8	SMITH-ROOT	12B-POW			
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment						
5	MT 2	1	NFC			0									
5	MT 1	1	CO	J		3	54 65	R							
5	EF 1	1	CO	J		1	83 83	R							
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smpl#	Age		Str/Smpl#				
5	EF 1	1	CO	83	6.7	U	U						26	21	
5	MT 1	1	CO	65	3.4	U	U								
5	MT 1	1	CO	61	2.8	U	U								
5	MT 1	1	CO	54	1.7	U	U								
COMMENTS															
Section			Comments												
WATERBODY			Observed approx. 15 adult chum spawners within site.												

Upstream photo of watershed code 900-349300-17500, Reach 1, Site 5. Photo archived on CD 2988, Image #31.



Downstream photo of watershed code 900-349300-17500, Reach 1, Site 5. Photo archived on CD 2988, Image #30.



FDIS Site Card

Watershed Code: 900-349300-42200-00000-00000-00000-000-000-000-000-000-000

Reach # 29.0 ILP Map # ILP # 6 Site 6

PROJECT																																																																														
Project Name: Mainland Coast 1:50000 Overview - 2000										Project Code: 4497																																																																				
Stream Name (gaz.): TOBA RIVER																																																																														
Project Watershed Code: 900-349300-00000-00000-00000-00000-000-000-000-000-000-000																																																																														
WATERSHED																																																																														
Gazetted Name: FILER CREEK										Local Name:																																																																				
Watershed Code: 900-349300-42200-00000-00000-00000-000-000-000-000-000-000																																																																														
ILP Map#:		ILP #:		NID Map #: 92K/9		NID #: 6		Reach #: 29.0		Site #: 6																																																																				
Field UTM(Zone/East/North/Method)				GIS UTM(Zone/East/North)				Site Lg: 300		Method: GE		Access: H																																																																		
10	416587	5606124	GPU	10	416614	5606247	Ref. Name:																																																																							
Date: 2000/09/13		Time: 08:30		Agency: C060		Crew: DM/SP		Fish Crd?: ☒		Incomplete: ☐																																																																				
CHANNEL																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>GE</td> <td>290.00</td> <td>240.00</td> <td>180.00</td> <td>235.00</td> <td>190.00</td> <td>210.00</td> <td></td> <td></td> <td></td> <td></td> <td>224.17</td> </tr> <tr> <td>Wetted Width (m):</td> <td>GE</td> <td>43.00</td> <td>55.00</td> <td>40.00</td> <td>32.00</td> <td>48.00</td> <td>37.00</td> <td></td> <td></td> <td></td> <td></td> <td>42.50</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.35</td> <td>0.45</td> <td>0.20</td> <td>0.20</td> <td>0.40</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0.32</td> </tr> </tbody> </table>													Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	GE	290.00	240.00	180.00	235.00	190.00	210.00					224.17	Wetted Width (m):	GE	43.00	55.00	40.00	32.00	48.00	37.00					42.50	Pool Depth (m):	MS	0.35	0.45	0.20	0.20	0.40						0.32	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>1.0</td> <td>1.0</td> <td>C</td> </tr> <tr> <td>Method II:</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				Gadient %	Mtd	Avg	Method I:	1.0	1.0	C	Method II:			
	Mtd	width	width	width	width	width	width	width	width	width	width	Avg																																																																		
Channel Width (m):	GE	290.00	240.00	180.00	235.00	190.00	210.00					224.17																																																																		
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Method I:	1.0	1.0	C																																																																											
Method II:																																																																														
Wb Depth:		1.7	.6	.5	Avg: 0.93		Method: MS		Stage: L ☒ M ☐ H ☐		No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐																																																																			
COVER Total: T																																																																														
Type:	SWD	LWD	B	U	DP	OV	IV	CROWN CLOSURE																																																																						
Amount:	T	D	T	N	S	T	N	0 0%																																																																						
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒	INSTREAM VEG: N ☒ A ☐ M ☐ V ☐																																																																						
LWD: F DIST: E																																																																														
LB SHP: V																																																																														
Texture: ☒ F ☒ G ☐ C ☐ B ☐ R ☐ A																																																																														
RIP: M																																																																														
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RIP: M																																																																														
STG: MF																																																																														
WATER																																																																														
EMS:					Req #:																																																																									
Temp: 7					Method: T3					Cond.: Method: S4																																																																				
pH: 6.5					Method: P4					Turb.: ☐ T ☐ M ☒ L ☐ C Method: GE																																																																				
Flood Signs:					Method:																																																																									
MORPHOLOGY																																																																														
Bed Material:		Dominant: C		Subdom: G		O1 B1 B2 B3 D1 D2 D3																																																																								
D95: 26.0		D (cm): 14.00		Morph: RP		DISTURBANCE INDICATORS																																																																								
Pattern: SI						C1 C2 C3 C4 C5 S1 S2 S3 S4 S5																																																																								
Islands: O																																																																														
Coupling: DC																																																																														
Confinement: UN																																																																														
FSZ ☐								Bars: ☐ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☒ BR																																																																						
HABITAT QUALITY																																																																														
Name		Comments																																																																												
Spawning Habitat		Fair spawning. Some small gravel areas.																																																																												
Cover		Cover is the limiting factor. All salmonids but one were captured around LWD.																																																																												
Rearing Habitat		Good rearing due to numerous low velocity side channels.																																																																												
PHOTOS																																																																														
Photo		Foc Lg		Dir		Comments																																																																								
R:	26	F:	17	STD		U																																																																								
R:	26	F:	18	STD		D																																																																								
COMMENTS																																																																														
Section		Comments																																																																												

FDIS Site Card

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 900-349300-42200-00000-0000-0000-000-000-000-000-000	29.0			6

SITE CARD	Substrate is 95% cobble and 5% gravel.
WATER	conductivity <10ms
CHANNEL	Channel widths hipchained, with the wetted distances being estimated

FDIS Fish Form

Reach # ILP Map # ILP #

Watershed Code: 900-349300-42200-00000-00000-0000-000-000-000-000-000 29.0

WATERBODY															
Gazetted Name: FILER CREEK										Local:					
Project Code: 900-349300-00000-00000-0000-000-000-000-000-000-0															
WS Code: 900-349300-42200-00000-0000-000-000-000-000-000-000															
Waterbody ID:					ILP Map #:					ILP #:		Reach #: 29 -			
Project ID: 4497					Lake/Stream: S					Lake From Date:					
Fish Permit #: FC2000-70					Date: 2000/09/13			To: 2000/09/13		Agency: C060		Crew: DM/SP		Resample: ☐	
SITE / METHOD															
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment					
6	92K/9	6	10	416587	5606124	GPU	EF	1	7	L	conductivity <10ms				
A. GEAR SETTINGS															
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment								
6	EF	1	1	2000/09/13	08:45	2000/09/13	10:00								
C. ELECTROFISHER SPECIFICATIONS															
Site#	MTD/NO	H/P	Encl	Sec	Lnth	Wdth	Voltage	Frequency	Pulse	Make	Model				
6	EF	1	1	O	646	300.0	2.0	1000	90	6	SMITH-ROOT	12B-POW			
FISH SUMMARY															
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment					
6	EF	1	1	DV	J	1	109	109	R						
6	EF	1	1	CO	J	5	47	76	R						
6	EF	1	1	CH	J	10	56	74	R						
6	EF	1	1	CC	J	2	75	101	R						
INDIVIDUAL FISH DATA															
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment
								Str/Smpl#	Age		Str/Smpl#				
6	EF	1	1	CH	65	3.0	U	U							
6	EF	1	1	CO	48	1.5	U	U							
6	EF	1	1	CO	76	6.0	U	U							
6	EF	1	1	CH	56	2.0	U	U							
6	EF	1	1	CH	74	4.7	U	U							
6	EF	1	1	CH	74	5.0	U	U							
6	EF	1	1	CH	68	3.0	U	U							
6	EF	1	1	CO	52	1.6	U	U							
6	EF	1	1	CH	60	2.8	U	U							
6	EF	1	1	CO	47	1.4	U	U							
6	EF	1	1	CH	66	3.8	U	U							
6	EF	1	1	CH	70	4.8	U	U							
6	EF	1	1	CH	57	2.0	U	U							
6	EF	1	1	CH	63	3.1	U	U							
6	EF	1	1	CO	52	1.8	U	U							
6	EF	1	1	CC	101	16.1	U	U							
6	EF	1	1	CC	75	6.2	U	U							
6	EF	1	1	DV	109	13.9	U	U	FR	1		TP	1		

Upstream photo of watershed code 900-349300-42200, Reach 29, Site 6. Photo archived on CD 2988, Image #28.



Downstream photo of watershed code 900-349300-42200, Reach 29, Site 6. Photo archived on CD 2988, Image #29.



FDIS Site Card

Watershed Code: 900-349300-42200-00000-00000-00000-00000-00000-00000-00000-00000

Reach # 68.0 ILP Map # ILP # 7 Site 7

PROJECT

Project Name: Mainland Coast 1:50000 Overview - 2000
Stream Name (gaz.): TOBA RIVER
Project Watershed Code: 900-349300-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000

Project Code: 4497

WATERSHED

Gazetted Name: FILER CREEK
Watershed Code: 900-349300-42200-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000

Local Name:

ILP Map#: ILP #: NID Map #: 92K/9 NID #: 7 Reach #: 68.0 Site #: 7
Field UTM(Zone/East/North/Method) GIS UTM(Zone/East/North) Site Lg: 242 Method: HC Access: H
10 413572 5618134 GPU 10 413363 5617777 Ref. Name:

Date: 2000/09/12 Time: 11:25 Agency: C060 Crew: DM/SP Fish Crd?: ☒ Incomplete: ☐

CHANNEL

	Mtd	width	width	width	width	width	width	width	width	width	width	Avg
Channel Width (m):	GE	30.00	22.00	25.00	20.00	27.00	24.00					24.67
Wetted Width (m):	GE	14.00	17.00	19.00	15.00	18.00	18.00					16.83
Pool Depth (m):	MS	0.30	0.45	0.70	0.50	0.60						0.51

	Gadient %	Mtd	Avg
Method I:	8.0 4.0	C	6.00
Method II:		C	

No Vis.Ch.: ☐ Intermittent: ☐
Dw: ☐ Tribs.: ☐

Wb Depth: 2.2 1.6 1.4 Avg: 1.73 Method: MS Stage: L ☐ M ☒ H ☐

COVER Total: A

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	N	D	N	S	T	N
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☒ A ☐ M ☐ V ☐

LWD: N DIST: NA

LB SHP: V

Texture: ☐ F ☐ G ☐ C ☒ B ☐ R ☐ A

RIP: M

STG: MF

RB SHP: S

Texture: ☐ F ☐ G ☐ C ☒ B ☐ R ☐ A

RIP: M

STG: MF

WATER

EMS: Temp: 6 pH: 6.6 Flood Signs: Method: T3 Method: P4 Method: Req #: Cond.: Turb.: ☐ T ☒ M ☐ L ☐ C Method: S4 Method: GE

MORPHOLOGY

Bed Material: Dominant: B Subdom: C D95: 234.0 D (cm): 29.00 Morph: CP
Pattern: SI Islands: N Coupling: PC Confinement: FC FSZ ☐

O1 B1 B2 B3 D1 D2 D3
DISTURBANCE INDICATORS
C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Bars: ☒ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☐ BR

HABITAT QUALITY

Name	Comments
OverWinter Habitat	Deep water would provide good overwintering habitat (fair when water velocity is accounted for).
Spawning Habitat	No spawning gravel observed
Rearing Habitat	Fair to good rearing. Lots of cover, but fast water velocity.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 26 F: 10	STD	U	
R: 26 F: 11	STD	D	

COMMENTS

Section

Comments

FDIS Site Card

Watershed Code: 900-349300-42200-00000-0000-0000-000-000-000-000-000

Reach #

ILP Map #

ILP #

Site

68.0

7

WATER	conductivity <10ms
SITE CARD	Only edge habitat was sampled due to safety concerns
WATER	Stream not crossable due to high and fast water.

FDIS Fish Form

Reach #	ILP Map #	ILP #
---------	-----------	-------

Watershed Code: 900-349300-42200-00000-0000-0000-000-000-000-000-000-000 68.0

WATERBODY																																	
Gazetted Name: FILER CREEK										Local:																							
Project Code: 900-349300-00000-00000-0000-000-000-000-000-000-0																																	
WS Code: 900-349300-42200-00000-0000-0000-000-000-000-000-000-000																																	
Waterbody ID:					ILP Map #:					ILP #:				Reach #: 68 -																			
Project ID: 4497										Lake/Stream: S				Lake From Date:																			
Fish Permit #: FC2000-70				Date: 2000/09/12				To: 2000/09/12				Agency: C060				Crew: DM/SP		Resample: ☐															
SITE / METHOD																																	
Site#		NID Map		NID #		UTM:Zone/East/North/Mthd				MTD/NO		Temp		Cond		Turbid		Comment															
7		92K/9		7		10		413572		5618134		GPU		EF		1		6		M		conductivity <10ms											
A. GEAR SETTINGS																																	
Site#		MTD/NO		H/P		Date In		Time In		Date Out		Time Out		Comment																			
7		EF		1		1		2000/09/12		11:30		2000/09/12		11:55																			
C. ELECTROFISHER SPECIFICATIONS																																	
Site#		MTD/NO		H/P		Encl		Sec		Lnth		Wdth		Voltage		Frequency		Pulse		Make		Model											
7		EF		1		1		O		376		242.0		1.0		1000		90		6		SMITH-ROOT		12B-POW									
FISH SUMMARY																																	
Site#		MTD/NO		H/P		Species		Stage		Age		Total #		Lgth (Min/Max)		FishAct		Comment															
7		EF		1		1		DV		A				1		175		175		R													
INDIVIDUAL FISH DATA																																	
Site#		MTD/NO		H/P		Species		Length		Weight		Sex		Mat		Age		Vch#		Genetic		Roll #		Frame#		Comment							
																Str/Smpl#		Str/Smpl#															
7		EF		1		1		DV		175		73.5		U		U		FR		1				TP		1		26		12			

Upstream photo of watershed code 900-349300-42200, Reach 68, Site 7. Photo archived on CD 2988, Image #21.



Downstream photo of watershed code 900-349300-42200, Reach 68, Site 7. Photo archived on CD 2988, Image #22.



FDIS Site Card

Watershed Code: 900-349300-42200-00000-00000-00000-000-000-000-000-000

Reach # 74.0 ILP Map # ILP # 8 Site 8

PROJECT																										
Project Name: Mainland Coast 1:50000 Overview - 2000										Project Code: 4497																
Stream Name (gaz.): TOBA RIVER																										
Project Watershed Code: 900-349300-00000-00000-00000-00000-000-000-000-000-000																										
WATERSHED																										
Gazetted Name: FILER CREEK										Local Name:																
Watershed Code: 900-349300-42200-00000-00000-00000-000-000-000-000-000																										
ILP Map#:		ILP #:		NID Map #: 92K/9		NID #: 8		Reach #: 74.0		Site #: 8																
Field UTM(Zone/East/North/Method)				GIS UTM(Zone/East/North)				Site Lg: 160		Method: HC		Access: H														
10	415352	5620056	GPU	10	415240	5620333	Ref. Name:																			
Date: 2000/09/17		Time: 09:40		Agency: C060		Crew: DM/SP		Fish Crd?: ☒		Incomplete: ☐																
CHANNEL																										
										<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>2.0</td> <td>1.0</td> <td>C</td> </tr> <tr> <td>Method II:</td> <td></td> <td></td> <td>C</td> </tr> </tbody> </table>						Gadient %	Mtd	Avg	Method I:	2.0	1.0	C	Method II:			C
	Gadient %	Mtd	Avg																							
Method I:	2.0	1.0	C																							
Method II:			C																							
Channel Width (m):		HC	155.00	45.00	58.00	64.00	39.00	58.00						69.83												
Wetted Width (m):		GE	30.00	40.00	24.00	49.00	18.00	31.00						32.00												
Pool Depth (m):														0.00												
Wb Depth:		3.0	5.0	.8	Avg: 2.93		Method: GE		Stage: L ☐ M ☒ H ☐		No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐															
COVER Total: M																										
Type:	SWD	LWD	B	U	DP	OV	IV	CROWN CLOSURE																		
Amount:	T	S	D	N	N	T	N	0 0%																		
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒	INSTREAM VEG: N ☒ A ☐ M ☐ V ☐																		
LWD: F		DIST: C																								
LB SHP: V		RB SHP: V																								
Texture: ☒ F ☒ G ☐ C ☐ B ☐ R ☐ A		Texture: ☒ F ☒ G ☐ C ☐ B ☐ R ☐ A																								
RIP: M		RIP: M																								
STG: MF		STG: MF																								
WATER																										
EMS:					Req #:					Cond.:																
Temp: 4					Method: T3					Method: S4																
pH: 6.2					Method: P4					Method: GE																
Flood Signs:					Turb.: ☐ T ☒ M ☐ L ☐ C																					
MORPHOLOGY																										
Bed Material:		Dominant: C		Subdom: B		O1		B1	B2	B3	D1	D2	D3													
D95: 41.0		D (cm): 20.00		Morph: RP		DISTURBANCE INDICATORS		☐	☐	☐	☐	☐	☐	☐												
Pattern: SI						C1		C2	C3	C4	C5	S1	S2	S3												
Islands: O						☐		☐	☐	☐	☐	☐	☐	☐												
Coupling: DC						☐		☐	☐	☐	☐	☐	☐	☐												
Confinement: OC						☐		☐	☐	☐	☐	☐	☐	☐												
FSZ ☐						Bars: ☐ N ☐ SIDE ☐ DIAG ☐ MID ☐ SPAN ☒ BR																				
HABITAT QUALITY																										
Name		Comments																								
Off Channel		Lots of moderate velocity areas due to the multiple channels.																								
Spawning Habitat		No spawning gravel observed																								
Cover		Lots of cover, in particular the turbidity from the glacial till.																								
Rearing Habitat		Fair to good rearing habitat.																								
PHOTOS																										
Photo		Foc Lg		Dir		Comments																				
R:	26	F:	8	STD		U																				
R:	26	F:	9	STD		D																				

FDIS Site Card

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 900-349300-42200-00000-0000-0000-000-000-000-000-000	74.0			8

COMMENTS	
Section	Comments
WATER	conductivity <10ms
CHANNEL	No pools were observed - extended riffle section
SITE CARD	For channel widths, the areas that were accessible were hipchained, with the rest estimated and added to the totals.
WATER	turbidity due to glacial till

FDIS Fish Form

Reach # ILP Map # ILP #

Watershed Code: 900-349300-42200-00000-00000-0000-000-000-000-000-000

74.0

WATERBODY																
Gazetted Name: FILER CREEK										Local:						
Project Code: 900-349300-00000-00000-00000-0000-000-000-000-000-0																
WS Code: 900-349300-42200-00000-00000-0000-000-000-000-000-000																
Waterbody ID:					ILP Map #:					ILP #:		Reach #: 74 -				
Project ID: 4497					Lake/Stream: S					Lake From Date:						
Fish Permit #: FC2000-70					Date: 2000/09/12			To: 2000/09/12		Agency: C060		Crew: DM/SP		Resample: ☐		
SITE / METHOD																
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment					
8	92K/9	8	10	415352	5620056	GPU	EF	1	4		M	conductivity <10ms				
A. GEAR SETTINGS																
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment									
8	EF	1	1	2000/09/12	09:40	2000/09/12	10:10									
C. ELECTROFISHER SPECIFICATIONS																
Site#	MTD/NO	H/P	Encl	Sec	Lnth	Wdth	Voltage	Frequency	Pulse	Make	Model					
8	EF	1	1	O	364	160.0	1.0	900	90	6	SMITH-ROOT	12B-POW				
FISH SUMMARY																
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment						
8	EF	1	1	DV	J		1	121	121	R	char (probably DV)					
INDIVIDUAL FISH DATA																
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment	
								Str/Smpl#	Age		Str/Smpl#					
8	EF	1	1	DV	121	16.1	U	U	FR	1	1	TP	1	26	7	char
COMMENTS																
Section			Comments													
WATERBODY			Deep thalweg. Not able to shock middle. Edge habitat sampled.													

Upstream photo of watershed code 900-349300-42200, Reach 74, Site 8. Photo archived on CD 2988, Image #19.



Downstream photo of watershed code 900-349300-42200, Reach 74, Site 8. Photo archived on CD 2988, Image #20.



FDIS Site Card

Watershed Code: 900-349300-42200-60500-0000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # ILP # 9 Site # 9

PROJECT

Project Name: Mainland Coast 1:50000 Overview - 2000
Stream Name (gaz.): TOBA RIVER Project Code: 4497
Project Watershed Code: 900-349300-00000-00000-0000-000-000-000-000-000-000

WATERSHED

Gazetted Name: HEADWALL CREEK Local Name:
Watershed Code: 900-349300-42200-60500-0000-0000-000-000-000-000-000
ILP Map#: ILP #: NID Map #: 92K/9 NID #: 9 Reach #: 1.0 Site #: 9
Field UTM(Zone/East/North/Method) GIS UTM(Zone/East/North) Site Lg: 200 Method: GE Access: H
10 413100 5617250 MAP 10 413090 5617412 Ref. Name:
Date: 2000/09/12 Time: 12:30 Agency: C060 Crew: JB/FH Fish Crd?: ☒ Incomplete: ☐

CHANNEL

													Gadient %				Mtd	Avg	
		Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Method I:		2.0	3.0	C	3.00
Channel Width (m):		T	42.50	38.60	45.70	40.10	35.90	45.90	38.90				41.09	Method II:		4.0		C	
Wetted Width (m):		T	36.60	34.90	44.00	35.00	31.80	40.10	35.90				36.90						
Pool Depth (m):		MS	0.20	0.30	0.25	0.40	0.15	0.25	0.20				0.25						
Wb Depth:		.8	.8	.9	Avg: 0.83			Method: MS			Stage: L		M	H					
														No Vis.Ch.:		Intermittent:			
														Dw:		Tribs.:			

COVER

Total: M

Type:	SWD	LWD	B	U	DP	OV	IV
Amount:	T	T	D	T	T	S	N
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒

CROWN CLOSURE

1 1-20%

INSTREAM VEG: N ☐ A ☐ M ☒ V ☐

LWD: F

DIST: E

LB SHP: S

RB SHP: S

Texture: ☐ F ☐ G ☒ C ☐ B ☐ R ☐ A

Texture: ☐ F ☐ G ☒ C ☐ B ☐ R ☐ A

RIP: M

RIP: M

STG: MF

STG: MF

WATER

EMS: Req #: Method: T3 Method: S4
Temp: 6 Cond.: Method: GE
pH: 6.5 Method: P4
Flood Signs: Method:

Turb.: ☐ T ☐ M ☒ L ☐ C

MORPHOLOGY

Bed Material: Dominant: C Subdom: B O1 B1 B2 B3 D1 D2 D3
D95: 65.0 D (cm): 65.0 Morph: RP DISTURBANCE INDICATORS
Pattern: SI C1 C2 C3 C4 C5 S1 S2 S3 S4 S5
Islands: O
Coupling: PC
Confinement: OC
FSZ ☐ Bars: ☐ N ☒ SIDE ☐ DIAG ☒ MID ☐ SPAN ☐ BR

HABITAT QUALITY

Name	Comments
Rearing Habitat	Moderate rearing habitat largely due to boulder and LWD/overhanging veg. Along streambank.
Spawning Habitat	Fair spawning habitat, there are some areas, especially at the mouth, where gravel substrate exists. May get washed out in fall or spring due to high flow regime.

PHOTOS

Photo	Foc Lg	Dir	Comments
R: 36 F: 20	STD	U	
R: 36 F: 21	STD	D	

COMMENTS

Section	Comments
---------	----------

FDIS Site Card

		Reach #	ILP Map #	ILP #	Site
Watershed Code: 900-349300-42200-60500-0000-0000-000-000-000-000-000		1.0			9
WATER	conductivity <10ms				
WATER	turbidity due to glacial meltwater				

FDIS Fish Form

Reach # ILP Map # ILP #

Watershed Code: 900-349300-42200-60500-0000-0000-000-000-000-000-000

1.0

WATERBODY																
Gazetted Name: HEADWALL CREEK										Local:						
Project Code: 900-349300-00000-00000-0000-0000-000-000-000-000-0																
WS Code: 900-349300-42200-60500-0000-0000-000-000-000-000-000																
Waterbody ID:				ILP Map #:				ILP #:		Reach #: 1 -						
Project ID: 4497				Lake/Stream: S				Lake From Date:								
Fish Permit #: FC2000-70				Date: 2000/09/12		To: 2000/09/12		Agency: C060		Crew: JB/FH		Resample: ☐				
SITE / METHOD																
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment						
9	92K/9	9	10	413100	5617250	GPU	EF	1	6	L	conductivity <10ms					
A. GEAR SETTINGS																
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment									
9	EF	1	1	2000/09/12	12:00	2000/09/12	12:30									
C. ELECTROFISHER SPECIFICATIONS																
Site#	MTD/NO	H/P	Encl	Sec	Lnth	Wdth	Voltage	Frequency	Pulse	Make	Model					
9	EF	1	1	O	509	200.0	2.0	1000	80	6	SMITH-ROOT	12B-POW				
FISH SUMMARY																
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)		FishAct	Comment						
9	EF	1	1	DV	A	4	170	210	R							
INDIVIDUAL FISH DATA																
Site#	MTD/NO	H/P	Species	Length	Weight	Sex	Mat	Age		Vch#	Genetic		Roll #	Frame#	Comment	
								Str/Smpl#	Age		Str/Smpl#					
9	EF	1	1	DV	180	60.2	U	U	FR	1		TP	1	26	13	
9	EF	1	1	DV	170	55.5	U	U	FR	2		TP	2	26	14	
9	EF	1	1	DV	175	61.4	U	U	FR	3		TP	3	26	15	
9	EF	1	1	DV	210	95.5	U	U	FR	4		TP	4	26	16	

**Upstream photo of watershed code 900-349300-42200-60500, Reach 1, Site 9.
Photo archived on CD 4865, Image #69.**



**Downstream photo of watershed code 900-349300-42200-60500, Reach 1, Site 9.
Photo archived on CD 4865, Image #70.**



FDIS Site Card

Watershed Code: 900-349300-52900-00000-00000-00000-00000-00000-00000-00000-00000

Reach # 4.0 ILP Map # ILP # Site 10

PROJECT			
Project Name: Mainland Coast 1:50000 Overview - 2000		Project Code: 4497	
Stream Name (gaz.): TOBA RIVER			
Project Watershed Code: 900-349300-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000			

WATERSHED							
Gazetted Name: RACON CREEK				Local Name:			
Watershed Code: 900-349300-52900-00000-00000-00000-00000-00000-00000-00000-00000-00000-00000							
ILP Map#:	ILP #:	NID Map #: 92K/9	NID #: 10	Reach #: 4.0	Site #: 10		
Field UTM(Zone/East/North/Method)		GIS UTM(Zone/East/North)		Site Lg: 200	Method: GE	Access: H	
10	424300	5601650	MAP	10	424207	5601751	Ref. Name:
Date: 2000/09/13		Time: 08:00		Agency: C060		Crew: JB/FH	Fish Crd?: ☒
						Incomplete: ☐	

CHANNEL													
	Mtd	width	width	width	width	width	width	width	width	width	width	Avg	
Channel Width (m):	T	41.70	30.10	28.70	29.00	35.90	31.90					32.88	
Wetted Width (m):	T	36.90	20.90	25.00	21.90	30.10	27.00					26.97	
Pool Depth (m):	MS	0.35	0.30	0.60	0.50	0.45	0.30					0.42	
Wb Depth:		2.0	2.2	2.5	Avg: 2.23		Method: MS		Stage: L ☐ M ☒ H ☐				
COVER				Total: M									
Type:	SWD	LWD	B	U	DP	OV	IV	CROWN CLOSURE					
Amount:	T	S	D	N	S	T	N	1 1-20%					
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒	INSTREAM VEG: N ☐ A ☐ M ☒ V ☐					
LWD: F		DIST: C											
LB SHP: V		RB SHP: S											
Texture: ☐ F ☐ G ☒ C ☒ B ☐ R ☐ A		Texture: ☐ F ☐ G ☒ C ☒ B ☐ R ☐ A											
RIP: M		RIP: M											
STG: MF		STG: MF											

WATER			
EMS:		Req #:	
Temp: 8	Method: T3	Cond.: 10	Method: S4
pH: 6.5	Method: P4	Turb.: ☐ T ☐ M ☐ L ☒ C	Method: GE
Flood Signs: RAFTED DEBRIS		Method: GE	

MORPHOLOGY														
Bed Material:	Dominant: C	Subdom: B	O1	B1	B2	B3	D1	D2	D3					
D95: 200.0	D (cm): 50.00	Morph: CP	☐	☐	☐	☐	☐	☒	☐					
Pattern: SI			DISTURBANCE INDICATORS											
Islands: O			C1	C2	C3	C4	C5	S1	S2	S3	S4	S5		
Coupling: CO			☐	☐	☐	☒	☐	☐	☐	☐	☐	☐	☐	
Confinement: FC			Bars: ☐ N ☒ SIDE ☐ DIAG ☒ MID ☐ SPAN ☐ BR											
FSZ ☐														

HABITAT QUALITY	
Name	Comments
Other	Access may be restricted from high stream velocity and gradient coupled together.
Rearing Habitat	Moderate rearing due to good cover from boulders and deep pools.
Spawning Habitat	Fair spawning habitat, while gravels are present, due to stream velocity and fairly high gradient, utilization would be minimal. There is also a fair amount of fines present in the substrate.

PHOTOS			
Photo	Foc Lg	Dir	Comments
R: 36 F: 22	STD	U	
R: 36 F: 23	STD	D	

COMMENTS	

FDIS Site Card

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 900-349300-52900-00000-0000-0000-000-000-000-000	4.0			10

Section	Comments
SITE CARD	Immediate riparian veg. Includes alders and willows.

FDIS Fish Form

Reach # ILP Map # ILP #

Watershed Code: 900-349300-52900-00000-00000-0000-000-000-000-000

4.0

WATERBODY													
Gazetted Name: RACoon CREEK						Local:							
Project Code: 900-349300-00000-00000-0000-000-000-000-000-0													
WS Code: 900-349300-52900-00000-0000-000-000-000-000-000													
Waterbody ID:			ILP Map #:			ILP #:			Reach #: 4 -				
Project ID: 4497			Lake/Stream: S			Lake From Date:							
Fish Permit #: FC2000-70			Date: 2000/09/13		To: 2000/09/13		Agency: C060		Crew: JB/FH		Resample: ☐		
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
10	92K/9	10	10	424300	5601650	MAP	MT	2	8	10	C		
10	92K/9	10	10	424300	5601650	MAP	MT	1	8	10	C		
10	92K/9	10	10	424300	5601650	MAP	EF	1	8	10	C		
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
10	MT	2	1	2000/09/13	08:00	2000/09/13	17:00						
10	MT	1	1	2000/09/13	08:00	2000/09/13	17:00						
10	EF	1	1	2000/09/13	08:00	2000/09/13	08:45						
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Lnth	Wdth	Voltage	Frequency	Pulse	Make	Model		
10	EF	1	1	O	602	200.0	4.0	900	80	6	SMITH-ROOT	12B-POW	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
10	MT	2	1	NFC		0							
10	MT	1	1	NFC		0							
10	EF	1	1	NFC		0							
COMMENTS													
Section			Comments										
WATERBODY			no fish caught										

Upstream photo of watershed code 900-349300-52900, Reach 4, Site 10. Photo archived on CD 4865, Image #71.



Downstream photo of watershed code 900-349300-52900, Reach 4, Site 10. Photo archived on CD 4865, Image #72.



FDIS Site Card

Watershed Code: 900-349300-52900-00000-00000-00000-000-000-000-000-000-000

Reach # 6.0 ILP Map # ILP # 11 Site 11

PROJECT																																																																														
Project Name: Mainland Coast 1:50000 Overview - 2000 Stream Name (gaz.): TOBA RIVER Project Watershed Code: 900-349300-00000-00000-00000-00000-000-000-000-000-000-000 Project Code: 4497																																																																														
WATERSHED																																																																														
Gazetted Name: RACON CREEK Local Name:																																																																														
Watershed Code: 900-349300-52900-00000-00000-00000-000-000-000-000-000-000																																																																														
ILP Map#:		ILP #:		NID Map #: 92K/9		NID #: 11		Reach #: 6.0		Site #: 11																																																																				
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">Field UTM(Zone/East/North/Method)</th> <th colspan="4">GIS UTM(Zone/East/North)</th> </tr> <tr> <td>10</td><td>425000</td><td>5598850</td><td>GPU</td> <td>10</td><td>425066</td><td>5599000</td><td></td> </tr> </table>				Field UTM(Zone/East/North/Method)				GIS UTM(Zone/East/North)				10	425000	5598850	GPU	10	425066	5599000		Site Lg: 200		Method: HC		Access: H																																																						
Field UTM(Zone/East/North/Method)				GIS UTM(Zone/East/North)																																																																										
10	425000	5598850	GPU	10	425066	5599000																																																																								
Date: 2000/09/13		Time: 13:45		Agency: C060		Crew: JB/FH		Fish Crd?: ☒		Incomplete: ☐																																																																				
CHANNEL																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>GE</td> <td>18.00</td> <td>17.00</td> <td>20.00</td> <td>25.00</td> <td>20.00</td> <td>20.00</td> <td></td> <td></td> <td></td> <td></td> <td>20.00</td> </tr> <tr> <td>Wetted Width (m):</td> <td>GE</td> <td>10.00</td> <td>12.00</td> <td>15.00</td> <td>10.00</td> <td>15.00</td> <td>18.00</td> <td></td> <td></td> <td></td> <td></td> <td>13.33</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.60</td> <td>0.30</td> <td>0.45</td> <td>0.60</td> <td>0.40</td> <td>0.55</td> <td></td> <td></td> <td></td> <td></td> <td>0.48</td> </tr> </tbody> </table>														Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	GE	18.00	17.00	20.00	25.00	20.00	20.00					20.00	Wetted Width (m):	GE	10.00	12.00	15.00	10.00	15.00	18.00					13.33	Pool Depth (m):	MS	0.60	0.30	0.45	0.60	0.40	0.55					0.48	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">Gradient %</th> <th>Mtd</th> <th>Avg</th> </tr> <tr> <td>Method I:</td> <td>4.0</td> <td>5.0</td> <td>C</td> </tr> <tr> <td>Method II:</td> <td>6.0</td> <td></td> <td>C</td> </tr> </table>		Gradient %		Mtd	Avg	Method I:	4.0	5.0	C	Method II:	6.0		C
	Mtd	width	width	width	width	width	width	width	width	width	width	Avg																																																																		
Channel Width (m):	GE	18.00	17.00	20.00	25.00	20.00	20.00					20.00																																																																		
Wetted Width (m):	GE	10.00	12.00	15.00	10.00	15.00	18.00					13.33																																																																		
Pool Depth (m):	MS	0.60	0.30	0.45	0.60	0.40	0.55					0.48																																																																		
Gradient %		Mtd	Avg																																																																											
Method I:	4.0	5.0	C																																																																											
Method II:	6.0		C																																																																											
Wb Depth:		.8	1.0	.7	Avg: 0.83		Method: MS		Stage: L ☐ M ☒ H ☐		No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐																																																																			
COVER <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>Type:</th> <th>SWD</th> <th>LWD</th> <th>B</th> <th>U</th> <th>DP</th> <th>OV</th> <th>IV</th> </tr> <tr> <td>Amount:</td> <td>T</td> <td>T</td> <td>D</td> <td>N</td> <td>S</td> <td>T</td> <td>N</td> </tr> <tr> <td>Loc: P/S/O:</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> <td>☒</td> </tr> </table> Total: M LWD: F DIST: E LB SHP: S Texture: ☐ F ☐ G ☒ C ☐ B ☐ R ☐ A RIP: M STG: YF															Type:	SWD	LWD	B	U	DP	OV	IV	Amount:	T	T	D	N	S	T	N	Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒																																								
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Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒																																																																							
CROWN CLOSURE 1 1-20% INSTREAM VEG: N ☐ A ☐ M ☒ V ☐ RB SHP: S Texture: ☐ F ☐ G ☒ C ☐ B ☐ R ☐ A RIP: M STG: YF																																																																														
WATER																																																																														
EMS: Temp: 9 Method: T3 pH: 6.5 Method: P4 Flood Signs: RAFTED DEBRIS Method: GE Req #: Cond.: 10 Method: S4 Turb.: ☐ T ☐ M ☒ L ☐ C Method: GE																																																																														
MORPHOLOGY																																																																														
Bed Material: Dominant: B Subdom: C D95: 230.0 D (cm): 35.00 Morph: CP Pattern: SI Islands: O Coupling: PC Confinement: FC FSZ: ☐ DISTURBANCE INDICATORS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>O1</td><td>B1</td><td>B2</td><td>B3</td><td>D1</td><td>D2</td><td>D3</td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> <tr> <td>C1</td><td>C2</td><td>C3</td><td>C4</td><td>C5</td><td>S1</td><td>S2</td><td>S3</td><td>S4</td><td>S5</td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> </table>															O1	B1	B2	B3	D1	D2	D3	☐	☐	☐	☐	☐	☐	☐	C1	C2	C3	C4	C5	S1	S2	S3	S4	S5	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐																														
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☐	☐	☐	☐	☐	☐	☐																																																																								
C1	C2	C3	C4	C5	S1	S2	S3	S4	S5																																																																					
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R: 34 F: 6	STD	U																																																																												
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FDIS Fish Form

Reach # ILP Map # ILP #

Watershed Code: 900-349300-52900-00000-00000-00000-000-000-000-000-000

6.0

WATERBODY														
Gazetted Name: RACoon CREEK										Local:				
Project Code: 900-349300-00000-00000-00000-000-000-000-000-0														
WS Code: 900-349300-52900-00000-00000-00000-000-000-000-000														
Waterbody ID:				ILP Map #:				ILP #:		Reach #:		6 -		
Project ID: 4497				Lake/Stream: S				Lake From Date:						
Fish Permit #: FC2000-70				Date: 2000/09/13		To: 2000/09/13		Agency: C060		Crew: JB/FH		Resample: ☐		
SITE / METHOD														
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO		Temp	Cond	Turbid	Comment			
11	92K/9	11	10	425000	5598850	MAP	EF	1	9	10	L			
A. GEAR SETTINGS														
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment							
11	EF	1	1	2000/09/13	13:45	2000/09/13	14:20							
C. ELECTROFISHER SPECIFICATIONS														
Site#	MTD/NO	H/P	Encl	Sec	Lnth	Width	Voltage	Frequency	Pulse	Make	Model			
11	EF	1	1	O	611	200.0	2.0	900	80	6	SMITH-ROOT	12B-POW		
FISH SUMMARY														
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment					
11	EF	1	1	NFC			0							

Upstream photo of watershed code 900-349300-52900, Reach 6, Site 11. Photo archived on CD 2708, Image #113.



Downstream photo of watershed code 900-349300-52900, Reach 6, Site 11. Photo archived on CD 2708, Image #114.



FDIS Site Card

Watershed Code: 900-349300-52900-00000-0000-0000-000-000-000-000-000

Reach # 11.0 ILP Map # ILP # 12 Site 12

PROJECT																			
Project Name: Mainland Coast 1:50000 Overview - 2000										Project Code: 4497									
Stream Name (gaz.): TOBA RIVER																			
Project Watershed Code: 900-349300-00000-00000-0000-0000-000-000-000-000-000																			
WATERSHED																			
Gazetted Name: RACON CREEK										Local Name:									
Watershed Code: 900-349300-52900-00000-0000-0000-000-000-000-000-000																			
ILP Map#:		ILP #:		NID Map #: 92K/9			NID #: 12			Reach #: 11.0		Site #: 12							
Field UTM(Zone/East/North/Method)				GIS UTM(Zone/East/North)				Site Lg: 200			Method: GE		Access: H						
10		428550		5597350		MAP		10		428447		5597626		Ref. Name:					
Date: 2000/09/13		Time: 14:00		Agency: C060			Crew: JB/FH			Fish Crd?: ☒		Incomplete: ☐							
CHANNEL																			
		Mtd	width	width	width	width	width	width	width	width	width	width	Avg						
Channel Width (m):		T	17.50	11.30	14.10								14.30						
Wetted Width (m):		T	15.50	9.20	8.30								11.00						
Pool Depth (m):		MS	0.25	0.60	0.40	0.40	0.25	0.30					0.37						
Wb Depth:		.5	.5	.4	Avg: 0.47			Method: MS			Stage: L ☐ M ☒ H ☐								
COVER Total: M																			
Type:	SWD	LWD	B	U	DP	OV	IV	CROWN CLOSURE											
Amount:	T	T	D	N	S	T	N	1 1-20%											
Loc: P/S/O:	☒	☒	☒	☒	☒	☒	☒	INSTREAM VEG: N ☐ A ☐ M ☒ V ☐											
LWD: F		DIST: E																	
LB SHP: V		RB SHP: S																	
Texture: ☐ F ☐ G ☒ C ☒ B ☐ R ☐ A		Texture: ☐ F ☐ G ☒ C ☒ B ☐ R ☐ A																	
RIP: C		RIP: C																	
STG: MF		STG: MF																	
WATER																			
EMS:					Req #:														
Temp: 8					Method: T3					Method: S4									
pH: 6.5					Method: P4					Method: GE									
Flood Signs:					Turb.: ☐ T ☐ M ☐ L ☒ C														
MORPHOLOGY																			
Bed Material:		Dominant: C		Subdom: B		O1		B1		B2		B3		D1		D2		D3	
D95: 260.0		D (cm): 40.00		Morph: SP		☐		☐		☐		☐		☐		☐		☐	
Pattern: SI						C1		C2		C3		C4		C5		S1		S2	
Islands: N						☐		☐		☐		☐		☐		☐		☐	
Coupling: PC						☐		☐		☐		☐		☐		☐		☐	
Confinement: FC						☐		☐		☐		☐		☐		☐		☐	
FSZ ☐						☐		☐		☐		☒		☐		☐		☐	
Bars: ☐ N ☐ SIDE ☐ DIAG ☒ MID ☐ SPAN ☐ BR																			
HABITAT QUALITY																			
Name										Comments									
Other										Access may be limited due to faster velocity downstream.									
Rearing Habitat										Good rearing habitat, good cover from boulders and deep pools, low gradient and fairly slow stream velocity would allow for fish to rear.									
Spawning Habitat										Moderate spawning habitat. Sections of gravel present, flow regime is slower than most of the other drainages in the Toba watershed.									
PHOTOS																			
Photo		Foc Lg		Dir		Comments													
R:	34	F:	4	STD		U													
R:	34	F:	5	STD		D													
COMMENTS																			
Section										Comments									

FDIS Site Card

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 900-349300-52900-00000-0000-0000-000-000-000-000-000	11.0			12

WATER	conductivity <10ms
COVER	Abundance of willow along stream bank which acts as overhanging veg.

FDIS Fish Form

Reach # ILP Map # ILP #

Watershed Code: 900-349300-52900-00000-00000-0000-000-000-000-000-000 11.0

WATERBODY														
Gazetted Name: RACON CREEK										Local:				
Project Code: 900-349300-00000-00000-00000-0000-000-000-000-000-0														
WS Code: 900-349300-52900-00000-00000-00000-000-000-000-000-000														
Waterbody ID:				ILP Map #:				ILP #:		Reach #: 11 -				
Project ID: 4497								Lake/Stream: S		Lake From Date:				
Fish Permit #: FC2000-70				Date: 2000/09/13		To: 2000/09/13		Agency: C060		Crew: JB/FH		Resample: ☐		
SITE / METHOD														
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment				
12	92K/9	12	10	428550	5597350	GPU	EF	1	8	C	conductivity <10ms			
A. GEAR SETTINGS														
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment							
12	EF	1	1	2000/09/13	14:00	2000/09/13	14:40							
C. ELECTROFISHER SPECIFICATIONS														
Site#	MTD/NO	H/P	Encl	Sec	Lnth	Width	Voltage	Frequency	Pulse	Make	Model			
12	EF	1	1	O	601	200.0	3.0	900	80	6	SMITH-ROOT	12B-POW		
FISH SUMMARY														
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment					
12	EF	1	1	NFC		0								

Upstream photo of watershed code 900-349300-52900, Reach 11, Site 12. Photo archived on CD 2708, Image #111.



Downstream photo of watershed code 900-349300-52900, Reach 11, Site 12. Photo archived on CD 2708, Image #112.



FDIS Site Card

		Reach #	ILP Map #	ILP #	Site
Watershed Code: 900-349300-67200-00000-0000-0000-000-000-000-000-000		5.0			13
COMMENTS					
Section	Comments				
WATER	conductivity <10ms				
MORPHOLOGY	Also a lot of fines from glacial meltwater				
SITE CARD	Abundance of willow as riparian veg.				

FDIS Fish Form

Reach # ILP Map # ILP #

Watershed Code: 900-349300-67200-00000-00000-0000-000-000-000-000-000

5.0

WATERBODY													
Gazetted Name: JIMMIE CREEK										Local:			
Project Code: 900-349300-00000-00000-00000-0000-000-000-000-000-0													
WS Code: 900-349300-67200-00000-00000-0000-000-000-000-000-000													
Waterbody ID:				ILP Map #:				ILP #:		Reach #:		5 -	
Project ID: 4497				Lake/Stream: S				Lake From Date:					
Fish Permit #: FC2000-70				Date: 2000/09/12		To: 2000/09/12		Agency: C060		Crew: JB/FH		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
13	92J/12	13	10	434050	5604250	MAP	EF	1	5	M	conductivity <10ms		
A GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
13	EF	1	1	2000/09/12	11:00	2000/09/12	11:35						
C ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Lnth	Width	Voltage	Frequency	Pulse	Make	Model		
13	EF	1	1	O	469	200.0	3.0	800	80	6	SMITH-ROOT	12B-POW	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
13	EF	1	1	NFC		0							

Upstream photo of watershed code 900-349300-67200, Reach 5, Site 13. Photo archived on CD 4865, Image #66.



Downstream photo of watershed code 900-349300-67200, Reach 5, Site 13. Photo archived on CD 4865, Image #67.



FDIS Site Card

Watershed Code: 900-349300-85000-00000-00000-0000-000-000-000-000-000

Reach # 3.0 ILP Map # ILP # Site 14

PROJECT																																																																														
Project Name: Mainland Coast 1:50000 Overview - 2000										Project Code: 4497																																																																				
Stream Name (gaz.): TOBA RIVER																																																																														
Project Watershed Code: 900-349300-00000-00000-00000-0000-000-000-000-000-000																																																																														
WATERSHED																																																																														
Gazetted Name: EAST TOBA RIVER										Local Name:																																																																				
Watershed Code: 900-349300-85000-00000-00000-0000-000-000-000-000-000																																																																														
ILP Map#:		ILP #:		NID Map #: 92J/12			NID #: 14		Reach #: 3.0		Site #: 14																																																																			
Field UTM(Zone/East/North/Method)				GIS UTM(Zone/East/North)				Site Lg: 200		Method: GE		Access: H																																																																		
10	436050	5611200	MAP	10	436928	5611516	Ref. Name:																																																																							
Date: 2000/09/12		Time: 09:30		Agency: C060		Crew: JB/FH		Fish Crd?: ☒		Incomplete: ☐																																																																				
CHANNEL																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Channel Width (m):</td> <td>GE</td> <td>75.00</td> <td>80.00</td> <td>90.00</td> <td>70.00</td> <td>90.00</td> <td>80.00</td> <td>75.00</td> <td></td> <td></td> <td></td> <td>80.00</td> </tr> <tr> <td>Wetted Width (m):</td> <td>GE</td> <td>40.00</td> <td>50.00</td> <td>45.00</td> <td>35.00</td> <td>50.00</td> <td>45.00</td> <td>40.00</td> <td></td> <td></td> <td></td> <td>43.57</td> </tr> <tr> <td>Pool Depth (m):</td> <td>MS</td> <td>0.20</td> <td>0.30</td> <td>0.10</td> <td>0.15</td> <td>0.20</td> <td>0.10</td> <td>0.15</td> <td></td> <td></td> <td></td> <td>0.17</td> </tr> </tbody> </table>													Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	GE	75.00	80.00	90.00	70.00	90.00	80.00	75.00				80.00	Wetted Width (m):	GE	40.00	50.00	45.00	35.00	50.00	45.00	40.00				43.57	Pool Depth (m):	MS	0.20	0.30	0.10	0.15	0.20	0.10	0.15				0.17	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> </thead> <tbody> <tr> <td>Method I:</td> <td>1.0 2.0</td> <td>C</td> <td>1.67</td> </tr> <tr> <td>Method II:</td> <td>2.0</td> <td>C</td> <td></td> </tr> </tbody> </table>				Gadient %	Mtd	Avg	Method I:	1.0 2.0	C	1.67	Method II:	2.0	C	
	Mtd	width	width	width	width	width	width	width	width	width	width	Avg																																																																		
Channel Width (m):	GE	75.00	80.00	90.00	70.00	90.00	80.00	75.00				80.00																																																																		
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Method II:	2.0	C																																																																												
Wb Depth: 1.0 1.5 1.0		Avg: 1.17		Method: MS		Stage: L ☐ M ☒ H ☐		No Vis.Ch.: ☐ Intermittent: ☐		Dw: ☐ Tribs.: ☐																																																																				
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WATER																																																																														
EMS: Temp: 5 pH: 6.5 Flood Signs:					Method: T3 Method: P4 Method:					Req #: Cond.: 10 Turb.: ☐ T ☒ M ☐ L ☐ C Method: S4 Method: GE																																																																				
MORPHOLOGY																																																																														
Bed Material: Dominant: C Subdom: G D95: 45.0 D (cm): 45.00 Morph: RP					O1 B1 B2 B3 D1 D2 D3 ☐ ☐ ☐ ☐ ☐ ☐ ☐																																																																									
Pattern: SI Islands: O Coupling: PC Confinement: OC FSZ ☐					DISTURBANCE INDICATORS C1 C2 C3 C4 C5 S1 S2 S3 S4 S5 ☐ ☐ ☐ ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐																																																																									
Bars: ☐ N ☒ SIDE ☐ DIAG ☒ MID ☐ SPAN ☐ BR																																																																														
HABITAT QUALITY																																																																														
Name					Comments																																																																									
Rearing Habitat					Moderate rearing, the amount of cover is limited to LWD/SWD on the stream sides and some boulders and undercut banks																																																																									
Other					(continued from spawning) of fines washed downstream from the glacial runoff, potentially clogging interstitial spaces around fish eggs.																																																																									
Spawning Habitat					Excellent spawning habitat due to low gradient, excellent substrate and the presence of multiple channels which have slower flow than that of the main channel providing excellent spawning grounds. The only negative spawning aspect may be the fairly high																																																																									
PHOTOS																																																																														
Photo		Foc Lg		Dir		Comments																																																																								
R:	36	F:	11	STD		U																																																																								
R:	36	F:	12	STD		D																																																																								
COMMENTS																																																																														

FDIS Site Card

	Reach #	ILP Map #	ILP #	Site
Watershed Code: 900-349300-85000-00000-00000-00000-000-000-000-000-000	3.0			14

Section	Comments
CHANNEL	Multiple channels resulted from very high flows in fall and spring.
SITE CARD	substrate: also a lot of fines present, presumably from glacial meltwater

FDIS Fish Form

Reach # ILP Map # ILP #

Watershed Code: 900-349300-85000-00000-0000-0000-000-000-000-000

3.0

WATERBODY													
Gazetted Name: EAST TOBA RIVER										Local:			
Project Code: 900-349300-00000-00000-0000-0000-000-000-000-0													
WS Code: 900-349300-85000-00000-0000-0000-000-000-000-000													
Waterbody ID:				ILP Map #:				ILP #:		Reach #: 3 -			
Project ID: 4497				Lake/Stream: S				Lake From Date:					
Fish Permit #: FC2000-70				Date: 2000/09/12		To: 2000/09/12		Agency: C060		Crew: JB/FH		Resample: ☐	
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd			MTD/NO	Temp	Cond	Turbid	Comment			
14	92J/12	14	10	436050	5611200	MAP	EF	1	5	10	M		
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
14	EF	1	1	2000/09/12	09:30	2000/09/12	09:59						
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Lnth	Width	Voltage	Frequency	Pulse	Make	Model		
14	EF	1	1	O	431	200.0	2.0	900	80	6	SMITH-ROOT	12B-POW	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
14	EF	1	1	NFC		0							
COMMENTS													
Section			Comments										
WATERBODY			The canyonated cascades downstream in reach one may hinder upstream migration										

Upstream photo of watershed code 900-349300-85000, Reach 3, Site 14. Photo archived on CD 4865, Image #60.



Downstream photo of watershed code 900-349300-85000, Reach 3, Site 14. Photo archived on CD 4865, Image #61.



FDIS Site Card

Watershed Code: 900-349300-85000-29300-0000-0000-000-000-000-000-000

Reach # 1.0 ILP Map # ILP # Site 15

PROJECT																																																																														
Project Name: Mainland Coast 1:50000 Overview - 2000 Stream Name (gaz.): TOBA RIVER Project Watershed Code: 900-349300-00000-00000-00000-0000-000-000-000-000-000 Project Code: 4497																																																																														
WATERSHED																																																																														
Gazetted Name: ZOLTAN CREEK Local Name: _____ Watershed Code: 900-349300-85000-29300-0000-0000-000-000-000-000-000																																																																														
ILP Map#:		ILP #:		NID Map #: 92J/12		NID #: 15		Reach #: 1.0		Site #: 15																																																																				
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">Field UTM(Zone/East/North/Method)</th> <th colspan="4">GIS UTM(Zone/East/North)</th> </tr> <tr> <td>10</td><td>437850</td><td>5610750</td><td>MAP</td> <td>10</td><td>437715</td><td>5610927</td><td></td> </tr> </table>				Field UTM(Zone/East/North/Method)				GIS UTM(Zone/East/North)				10	437850	5610750	MAP	10	437715	5610927		Site Lg: 150		Method: HC		Access: H																																																						
Field UTM(Zone/East/North/Method)				GIS UTM(Zone/East/North)																																																																										
10	437850	5610750	MAP	10	437715	5610927																																																																								
Date: 2000/09/12		Time: 08:00		Agency: C060		Crew: JB/FH		Fish Crd?: ☒		Incomplete: ☐																																																																				
CHANNEL																																																																														
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>Mtd</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>width</th> <th>Avg</th> </tr> <tr> <td>Channel Width (m):</td> <td>GE</td> <td>12.00</td> <td>10.00</td> <td>15.00</td> <td>15.00</td> <td>17.00</td> <td>18.00</td> <td></td> <td></td> <td></td> <td></td> <td>14.50</td> </tr> <tr> <td>Wetted Width (m):</td> <td>GE</td> <td>10.00</td> <td>8.00</td> <td>12.00</td> <td>10.00</td> <td>12.00</td> <td>15.00</td> <td></td> <td></td> <td></td> <td></td> <td>11.17</td> </tr> <tr> <td>Pool Depth (m):</td> <td>GE</td> <td>0.30</td> <td>0.40</td> <td>0.10</td> <td>0.10</td> <td>0.05</td> <td></td> <td>0.05</td> <td></td> <td></td> <td></td> <td>0.17</td> </tr> </table>														Mtd	width	width	width	width	width	width	width	width	width	width	Avg	Channel Width (m):	GE	12.00	10.00	15.00	15.00	17.00	18.00					14.50	Wetted Width (m):	GE	10.00	8.00	12.00	10.00	12.00	15.00					11.17	Pool Depth (m):	GE	0.30	0.40	0.10	0.10	0.05		0.05				0.17	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th></th> <th>Gadient %</th> <th>Mtd</th> <th>Avg</th> </tr> <tr> <td>Method I:</td> <td>2.0</td> <td>3.0</td> <td>C</td> </tr> <tr> <td>Method II:</td> <td>3.0</td> <td></td> <td>C</td> </tr> </table>			Gadient %	Mtd	Avg	Method I:	2.0	3.0	C	Method II:	3.0		C
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Wb Depth: 1.3 1.5 1.3		Avg: 1.37		Method: MS		Stage: L ☐ M ☒ H ☐		No Vis.Ch.: ☐ Intermittent: ☐ Dw: ☐ Tribs.: ☐																																																																						
COVER Total: M																																																																														
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CROWN CLOSURE 1 1-20% INSTREAM VEG: N ☐ A ☒ M ☒ V ☐																																																																														
LWD: F DIST: E LB SHP: S Texture: ☐ F ☐ G ☒ C ☐ B ☐ R ☐ A RIP: M STG: MF RB SHP: S Texture: ☐ F ☐ G ☒ C ☐ B ☐ R ☐ A RIP: M STG: MF																																																																														
WATER																																																																														
EMS: Temp: 4 pH: 6.5 Flood Signs: Method: T3 Method: P4 Method: Req #: Cond.: 20 Turb.: ☐ T ☒ M ☐ L ☐ C Method: S4 Method: GE																																																																														
MORPHOLOGY																																																																														
Bed Material: Dominant: C Subdom: B D95: 45.0 D (cm): 30.00 Morph: RP Pattern: ST Islands: N Coupling: PC Confinement: FC FSZ ☐ DISTURBANCE INDICATORS <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>O1</td><td>B1</td><td>B2</td><td>B3</td><td>D1</td><td>D2</td><td>D3</td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> <tr> <td>C1</td><td>C2</td><td>C3</td><td>C4</td><td>C5</td><td>S1</td><td>S2</td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td><td>☐</td> </tr> <tr> <td>S3</td><td>S4</td><td>S5</td> </tr> <tr> <td>☐</td><td>☐</td><td>☐</td> </tr> </table>															O1	B1	B2	B3	D1	D2	D3	☐	☐	☐	☐	☐	☐	☐	C1	C2	C3	C4	C5	S1	S2	☐	☐	☐	☐	☐	☐	☐	S3	S4	S5	☐	☐	☐																														
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FDIS Site Card

Watershed Code: 900-349300-85000-29300-0000-0000-000-000-000-000-000		Reach #	ILP Map #	ILP #	Site
		1.0			15
Section	Comments				
WATER	Water is moderately turbid due to glacial run-off.				

FDIS Fish Form

Watershed Code: 900-349300-85000-29300-0000-0000-000-000-000-000-000

Reach # ILP Map # ILP #

1.0

WATERBODY													
Gazetted Name: ZOLTAN CREEK						Local:							
Project Code: 900-349300-00000-00000-0000-000-000-000-000-0													
WS Code: 900-349300-85000-29300-0000-0000-000-000-000-000-000													
Waterbody ID:				ILP Map #:				ILP #:		Reach #: 1 -			
Project ID: 4497				Lake/Stream: S				Lake From Date:					
Fish Permit #: FC2000-70			Date: 2000/09/12			To: 2000/09/12			Agency: C060		Crew: JB/FH		Resample: ☐
SITE / METHOD													
Site#	NID Map	NID #	UTM:Zone/East/North/Mthd				MTD/NO	Temp	Cond	Turbid	Comment		
15	92J/12	15	10	437850	5610750	GPU	EF	1	4	20	M		
A. GEAR SETTINGS													
Site#	MTD/NO	H/P	Date In	Time In	Date Out	Time Out	Comment						
15	EF	1	1	2000/09/12	08:00	2000/09/12	08:30						
C. ELECTROFISHER SPECIFICATIONS													
Site#	MTD/NO	H/P	Encl	Sec	Lnth	Width	Voltage	Frequency	Pulse	Make	Model		
15	EF	1	1	O	426	150.0	1.0	800	80	6	SMITH-ROOT	12B-POW	
FISH SUMMARY													
Site#	MTD/NO	H/P	Species	Stage	Age	Total #	Lgth (Min/Max)	FishAct	Comment				
15	EF	1	1	NFC		0							
COMMENTS													
Section			Comments										
WATERBODY			could only electrofish side of stream due to high stream velocity and limited visibility.										
WATERBODY			no fish caught										

**Upstream photo of watershed code 900-349300-85000-29300, Reach 1, Site 15.
Photo archived on CD 4865, Image #58.**



**Downstream photo of watershed code 900-349300-85000-29300, Reach 1, Site 15.
Photo archived on CD 4865, Image #59.**

