## **APPENDIX D: SAMPLE COLLECTION FIELD DATA SHEETS**

Appendix D1: Adult Fish Sample Data Sheets (Phase I and Phase II)

Appendix D2: Young-of-the-Year Fish Sample Collection Data Sheets (Phase II)

Appendix D3: Lake Profiling and Surface Water Collection Data Sheets (Phase I Stratification and Overturn and Phase II Stratification)

Appendix D4: Sediment and Sediment Pore Water Collection Data Sheets (Phase II)

Appendix D5: Aquatic Vegetation Field Data Sheets (Phase I)

Appendix D6: Aquatic Invertebrates Field Data Sheets (Phase I)

# **APPENDIX D: SAMPLE COLLECTION FIELD DATA SHEETS**

Appendix D1: Adult Fish Sample Data Sheets (Phase I and Phase II)

Corrective Action Site Investigation, Source Assessment, and Risk Assessment Report

# **PHASE I**

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fall #:		uplicate/Replicate	te (circle one): yes no llow normal other	
Fish#	Genus	Species	Length (mm)	Comments
001 5(	LMB	fra Toron	402m/950m	F 7.8 gw
002 57	LMB		35-0/575	
003 52	·LmB	*	291/325	
004 52	LMIS		323 /425	
005 52	LINIB		295/250	
006 5/	BluexII		152/69.7	
007 57	13/034//		159/7411	
ngth (mm) of	75%tile of Longest I	Fish:		= (

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KPDES Permit#: _		Lat/Long Unstr	eam Reach:	
Lat/Long Downstre	eam Reach:D	uplicate/Replica	nte (circle one): yes no	1
Fish#	Genus	Species	Length (mm)	Comments
SI 001008	Bloexill		135-/45.5	-
51 902 009	Blues/1		138/41,1	
52 903 010	R/vex//		188/118,5	
52 004 011	Blocill		166 / 99,2	
52 005 012	Rlogell		168/90,0	
7 006	co to			
007	80 3			
Length (mm) of Total # Fish Coll	75%tile of Longest lected in Sample:	Fish:		
Collected by:			Date: _	Tim
			Date:	Tin
Relinquished by:				

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Station #:	vals truet	PSS	Date:	17/1	_1.
tream / Location:	571	701	Time:		-
PDES Permit#: _	SCIHI	50/			
County:		Lat/Long Upstre	am Reach:		-
	eam Reach:				
outfall #:	Dr	iplicate/Replicat	e (circle one): yes	no	
low status (circle	one): runoff event	high flow low f	low normal oth	er	
Fish#	Genus	Species	Length (mm)/	Com	nents
08013	ct cats	~	680/3348	M	
002			(		
003					
004			*		
005		*		32	
006					
007					
Length (mm) of Fotal # Fish Col	75%tile of Longest I lected in Sample:	Fish:	_		
Collected by:		*	Date:		.Time:
Relinquished by:			Date:		Time:
Received by:			Date:		Time:

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Station #:		P84	Date: Time:	1377.
County:	ream Reach:		eam Reach:	
Outfall #:	D	uplicate/Replica	te (circle one): yes n	
Fish#	Genus	Species	Length (mm)	Comments
-00TO14	FLATHEAD CA	TFISH	588 mm/20	KADG DVARY F
002015	FLATHEAD		508mm/127	9
.003 Olle	CHANNELCATE	PI+	508 mm/1600	g
.004017	CHAUNEL		480 mmi/951	1g M
005			1	
006				
007				
Length (mm) of Total # Fish Co	f 75%tile of Longest llected in Sample:	Fish:	_	
Collected by:			Date: _	Time:
Relinquished by	:		Date: _	Time:
Received by:			Date: _	Time:

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# CHAIN-OF-CUSTODY

Outfall #:	ream Reach: Decone): runoff event	Ouplicate/Replicat	am Reach:ee (circle one): yes	no	Penull Cyas for
Fish#	Genus	Species	Length (mm)	Comm	ents
001 St	Rantucky Bes	5	346	560NO	576
002	LMB		347	500	и
. 003					
004			*	7	
005				1	
006					
007					
Length (mm) of Total # Fish Co	75%tile of Longest llected in Sample:	Fish:	_ :		
Collected by:			Date	:	Time:
Relinquished by	1		Date	:	Time:
Received by:			Date		Time:

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		Duplicate/Replica	te (circle on			
Flow status (circ	le one): runoff event Genus	Species		ı (mm)		nents
001	Bloogfill		132	360	Bas	
0025/	Bluesill		132	260		× 100
003	Blocall		123	295	5	
004	Bluesill		119	. 265	-	
005	Blocall		115	22.	6	
006	Bluesi 11		107	19.	7	
007			118	26	. (	
Length (mm)	of 75%tile of Longest	Fish:				
				Date:		Time:
Collected by:				Date.		- A AAAAA

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utfall #:	one): runoff event h	plicate/Replicat	re (circle one): yes no normal other		
Fish#	Genus	Species	Length (mm)/9		nents
001	CH Catfish		538/1575	M	
002	LMB		372/825	F	overs =
003	LMB		392 /850		
004/96	LMB		350 /825		
005/8/6	Lm B		346/625		
-006			/		
-007					
ength (mm) of Cotal # Fish Col	75%tile of Longest F lected in Sample:	ish:			•
Collected by:	Dur / DES		Date:		Time:
	1		Date:		Time:
A COLUMN TO THE REAL PROPERTY OF THE PARTY O					

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		Lat/Long Upsti	ream Reach:		
Outfall #:	ream Reach:e one): runoff event	Duplicate/Replica			
Fish#	Genus	Species	Lengtl	n (mm)	Comments
- <del>001</del> 00b	Blue gill	4	83.79	175 mm	
002	Blue gill			1 Somm	
903 008	Blue gill		72.49	165mm	
004 009	Blingill		40.49	139inn	
005010	Bluejol		1 2	154mm	
006 oil	Blacqil		40.69	135mm	
007 012	Bluegel		44.99	145inm	
005010 006 oit 007 ot 2 Length (mm) of	Rhe gill  Rhe gill  Blue gill		59.25 40.69 44.99		
Collected by:				Date:	Ti
Relinquished by				Date:	Ti
Received by:				Date:	Tir

Station #: LHL /

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Date: Oct 11, 2017

	:		Tir	ne:		
County:	ream Reach:	Lat/Long Upstr				-
	one): runoff event					
Fish#	Genus	Species	Lengtl	h (mm)	Comm	ents
-00T 043	FHC		7759	456mm		
002						
003						
004				+		
005						
006						
007						
	75%tile of Longest lected in Sample:		_	·		
Collected by:			W1 ;	Date:		.Time:
Relinquished by:		-1		Date:		Time:
Received by:				Date:		Time:

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PDES Permit#:		eam Reach:		
at/Long Downstream Rea		- 17 V - 1 C - 10 C		
outfall #: low status (circle one):  ru	Duplicate/Replicate	ite (circle one): yes no flow normal other		
Eish# G	enus Species	Length (mm)	Comm	ents
00/05 LM	B	345/650	M	
1 902016 LM	B	375/425	M	
908017 Lm	R	332/450	M	
004 018 LW	B	306/400	M	
905 019 LM	B	290/325	M	
006				
007				
Length (mm) of 75%tile Fotal # Fish Collected in	of Longest Fish: Sample:	_		
Collected by:		Date: _		Time:
Relinquished by:		Date: _		Time:
		Date:		Time:

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Station #:Stream / Location KPDES Permit#: Lat/Long Downst Outfall #: Flow status (circle	() #82- :- SC1711301 ream Reach:	Lat/Long Upstro	Date: Time: eam Reach: te (circle one): yes	
Fish #	Genus	Species	Length (mm)	Comments
52 001008	- Bloox.11		127/31.1	
002 009	EH LOSA		415-1650	Male
903 010	cit Cut for		493/1150	Male
004011	KY Bars		301/425	
SI 905012	KY Bass		350	
906 013	KY Bus	1	21/500	Forey 4,000
007 0/4	Ky Rus		352/650	
Length (mm) of Total # Fish Co	f 75%tile of Longest I llected in Sample:	Fish:		
Collected by:			Date:	Time:
Relinquished by	*		Date:	Time:
Received by:			Date:	Time:

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	ream Reach:	The state of the s	eam Reach:	
utfall #:	Dr	iplicate/Replicat	te (circle one): yes no	
ow status (circl	e one): runoff event	high flow low	flow normal other	
Fish#	Genus	Species	Length (mm)	Comments
001	Bluesill		135/39.4	
002 5	Bluezill		145/47.1	
003	Blueill		166/74.8	
004	Bluesill		134/30.5	
005	Blogill		125/25-8	
006	Blogill		128/25.9	
007	Bluexill		122/24.9	
Length (mm) of Total # Fish Co	75%tile of Longest	Fish:	_	
Collected by:			Date: _	Time:
	y:		Date:	Time:
itomiquinio o	V .		Date:	Time:

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			eam Reach:	
tfall #:	ream Reach: e one): runoff event	Duplicate/Replica	te (circle one): yes	no
Fish #	Genus	Species	Length (mm)	Comments
001 5/	Hyprize		533	wood M
002 5/	Hypork		54/ 2	130 F 26,2
003 52	4 bil tripe		416 4	280-14
004 51	Venterly		330 ' 5	37 F 2
005 5/	lets		320 9	150 Sexel
006 51	Restord	Bood	332	STOO M
2007				
ength (mm) o otal # Fish Co	f 75%tile of Longes ollected in Sample:_	st Fish:	_	
Collected by:			Date:	
Relinquished by	y:		Date:	Time
			Date:	Time

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County:		Lat/Long Upstr	eam Reach:	÷	-
Outfall #:	eam Reach:l one): runoff event	Duplicate/Replica	te (circle one): ye		
Fish #	Genus	Species	Length (mn	ı) Com	ments
(52001 00)	Kentily	Bass	353	FORM	(F 4
5 7002 008	Kuty	BUS	370	750	
52003 009	Kenly	Bas	337	5000	7
004010	Flut head	Calf. A	550	1700g	Figu
005					
006					
007					
Length (mm) of Total # Fish Col	75%tile of Longest lected in Sample:_	t Fish:	_		
Collected by:			Da	ate:	Time:
			Da	ate:	Time:
Relinquished by:					

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	: <u>SCA1130</u>	Lat/Long Upstro	eam Reach:	
Lat/Long Down	stream Reach:			
Outfall #:	Du	plicate/Replica	te (circle one): yes no	
Flow status (circ	cle one): runoff event	nigh flow low	low normal other	
Fish#	Genus	Species	Length (mm)/ov	Comments
001	Blockill		150/5/.1	/
( 002 51)	Bloegill		160/68.2	
003	Blogill		158/65.9	
004	Bluesill		144/45.0	
005	Bluesill		135/ 38,7	
006	Bluesill		140/ 37.4	
007	Bluesill		130/. 35,2	
Length (mm)	of 75%tile of Longest F	ish:	_	
Total # Fish C	ollected in Sample:			
Collected by:			Date:	Time:
Relinguished b	y:		Date:	Time: _

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Station #: LHL	#3 \$	P&Y	Date: 108	17	
Stream / Location:			Time:		
KPDES Permit#: _					
County:		Lat/Long Upstro	eam Reach:		
Outfall #:		uplicate/Replica	te (circle one): yes n		1
Fish#	Genus	Species	Length (mm) or	Comments	D- C00
51 90/008	coffish-		485 /800	M(SSi) arey	1002 of
9020			1		
003					
004					
005					
006					
007					
	5%tile of Longest lacted in Sample:				
Collected by:			Date: _	Time:	
Relinquished by: _			Date: _	Time:	
Received by:			Date: _	Time: _	

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	n:				
County:		Lat/Long Upstr	eam Reach:		
Outfall #:	tream Reach:Du le one): runoff event	uplicate/Replica	te (circle one): yes I		,
Fish #	Genus	Species	Length (mm)	Comments	
(001)51	CHCAESL		443/75	Forenz =	0,44
002			///	-	
003					
004			ţ.		
005					
006					
007					
	f 75%tile of Longest F llected in Sample:				
Collected by:			Date:	.Time:	
Relinquished by	:		Date: _	Time:	
Received by:			Date:	Time:	

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County:	#:L	at/Long Upst	ream Reach:		
Outfall #:	Dup	olicate/Replic	ate (circle one): yes	no	
Fish #	Genus	Species	Length (mm)	Com	ments
001	Channel Catter	CC	730mm	56709	138.27
002					
003					
004				1	
005					
006					
007					
Length (mm) o	of 75%tile of Longest Fish ollected in Sample:	h:		,	
Collected by:			Date:		Time:
elinquished by	7:		Date:		Time:
deceived by:			Date:		Time:

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status (circle	one): runoff event	ruplicate/Replicate			
Fish#	Genus	Species	Length (mm)	Comr	nents
001 51	Lepomis	Machordina	186	104gy	
002 51	Blue xill		182	88.80	1
003 5 (	Bloom 11		178	70.3	~
004 5 /	Bloegall		168.	45,40	sv /
005 5 2	Blugell		168	65.00	~
006 57	Bluesill		159	6429	V
007 52	Bluesill		iso	53.	2
igth (mm) of tal # Fish Col	75%tile of Longest lected in Sample:	Fish:			
lected by:			Date	e:	Time:
			Date	e:	Time:
Relinquished by:Received by:			Dat		Time:

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County:		at/Long Upstr	eam Reach:		
Outfall #:		plicate/Replica	te (circle one):		
Fish#	Genus	Species	Length (n	nm)/4/	Comments
2 00/ 008	Blue xill		148/	18.4	
1 902	KY Bass		287/30	10,2 N	Tale
1 903	KY Bess		310/375	ion F	overy =30 He
2 2003	LM Bass		311/400	ey F	overy = 2,7
805 XT	24 KY Bess		258/2	80.6	
005 XT	R KY Bers		248/190	),5	
-007			1	W = 1	
Length (mm) of Fotal # Fish Col	75%tile of Longest F. lected in Sample:	ish:	=		
Collected by:		•		Date:	Time:
Relinguished by:				Date:	Time:
7				Date:	Time:

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at/Long Downs Outfall #:	stream Reach:	Duplicate/Replicat	e (circle one):	yes no	
Fish #	Genus	Species	Length (1	nm)	Comments
6 001 52	LMB		320	400	
002					
003	× .				
004					
005					
006					
007					
Total # Fish C	of 75%tile of Longes collected in Sample:_			Date:	Time:_
11.72	y:	×		Date:	Time: _
Received by:				Date:	Time:

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	on:			ie:	
	<u></u>	Lat/Long Upstr	eam Reach:		
utfall #:	stream Reach:	Duplicate/Replica			
Fish#	Genus	Species	Length		Comments
001	CC		22709	515mm	
002	FHC		30089	682inin	
003			J		
004				•	
005					
006					
007			1		
ength (mm) otal # Fish C	of 75%tile of Longes collected in Sample:	st Fish:			
collected by:		н		Date:	.Time:
elinquished b	y:			Date:	Time:
Received by:					Time:

Received by:

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Time:

Date:

SELENIUM FISH TISSUE CHAIN-OF-CUSTODY Station #: Stream / Location: KPDES Permit#: Lat/Long Upstream Reach: County: \_\_\_ Lat/Long Downstream Reach:\_ Duplicate/Replicate (circle one): yes no Outfall #: high flow low flow normal other Flow status (circle one): runoff event Comments Length (mm) Species Fish # Genus 001 SI 002 004 006 Length (mm) of 75% tile of Longest Fish: Total # Fish Collected in Sample:\_ Time: Date: Collected by: Time: Date: Relinquished by:

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	eam Reach:		am Reach:		
Outfall #:		Duplicate/Replicat	e (circle one): yes no		
~ Fish#	Genus	Species	Length (mm)	Comments	
1 001 008	LMB		392/900		
( 0020091	CMB		410/1050	)	
2 008 010	LUB	1	398/900		
3 004001	LMB		378 /800		
4 0050/7	LMB		190/850		-
006				- 30	
007				4 A 4	
Length (mm) of Fotal # Fish Col	75%tile of Longer lected in Sample:	st Fish:			14
Collected by:		- 1:1	Date:	Tim	ie:_
Relinquished by:			Date: _	Tim	ne:_
A			Date:		ne:

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County:		Lat/Long Upstr	eam Reach:		
Outfall #:	ream Reach:e one): runoff event	Duplicate/Replica			
Fish#	Genus	Species	Length	(mm)	Comments
<del>001</del> 013	Bluegill		96.59	177min	
002 014	Bluegill Bluegill		101.49	186 mm	
003 015	Bluegill Bluegill Bluegill Bluegill Bluegill		83.15	167mm	
004 016	Blugell		56.05	issmu	
005 017	Bluegill		55.35	155 mm	
006 018	Bluegill			148 mm	
007019	Bluegil			152mm	
Length (mm) of Total # Fish Co	f 75%tile of Longes llected in Sample:_	rt Fish:	_		
Collected by:				Date:	Tim
Relinquished by	•			Date:	Tin
Received by:			-	Date:	Tin

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status (cir	D cle one): runoff event		e (circle one): yes	
Fish#	Genus	Species	Length (mm)	Comments
001	CH Lattool		710/462	5 Forey=118
002	CH CF		soo/ra	5
003	KY Bars		333/475	Forcey = S
004	Hybralstrip	e	503/1825	i-M
005	Hybridstrip	٠	450/1650	Foreig 1.
006	Hybridstripe		495/1800	
007		4.		
gth (mm) al # Fish (	of 75%tile of Longest Collected in Sample:	Fish:	_	
lected by			Date:	Time:
lected by:	by:		Date:	
midmonon	J			

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Count	y:	ream Reach:	Lat/Long Upstr	ream Reach:		
	l#: tatus (circle	one): runoff event	Duplicate/Replicate high flow low			
H	ish#	Genus	Species	Length	(mm)	Comments
-	007	BLUEGILL		76.69	17/mm	
	002008	Dlue sill		90129	180mm	
	003 009	Bluesill		97.09	173nm	
	004 010	Bluesill		559	148 mm	
	005 011	Bluegill		65.49	167 nm	
	006	Blug11		62.29	lalonen	
	007013	LMB	-	5259	334 mm	
Leng Total	th (mm) of # Fish Col	75%tile of Longe lected in Sample:	st Fish:	_		
Colle	cted by:				Date:	Tir
Relin	anished hy				Date:	Tir

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Stream / Location			Ti	me:		
CPDES Permit#:						
County:		Lat/Long Upstr	eam Reach			2/1
Outfall #:	eam Reach:l one): runoff event	Duplicate/Replica	te (circle or	ne): yes no		
Fish#	Genus	Species		th (mm)	Comme	ents
<u>&gt;001</u> 014	KY Bass		4505	329min		
002 ols	KY Basj		5759	325mm		
003	,					
004				f		
005						
006						
007					,	
Length (mm) of Total # Fish Col	75%tile of Longest lected in Sample:	Fish:			Т	
Collected by:				Date:		Time:
Relinquished by:				Date:		Time:
Received by:	Date:		Time:			

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County:		Lat/Long Upstr	eam Reach:			
outfall #:	ream Reach:	Ouplicate/Replica				
Fish#	Genus	Species	Length	(mm)	Comments	
1000 016	LMB		10509	442 min		
002 017	CC		5509	424mm		
-003	,					
004				•		
005						
996						
-007						
Length (mm) of Total # Fish Co Collected by:	f 75%tile of Longest llected in Sample:			Date:		Time: _
Relinquished by	·			Date:		Time: _
				Date:		Time:

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tream / Location:			Tim	ie:		-0
KPDES Permit#:						
County:		Lat/Long Upstr	eam Reach:			-
Lat/Long Downstrea  Outfall #:  Flow status (circle o		Duplicate/Replica				
Fish #	Genus	Species	Length	(mm)	Comm	ients
<del>001</del> 018	CC		1925 9	603mm		
002						
003						
004						
005						
006						
007				- [-		
Length (mm) of 75 Fotal # Fish Collec						
Collected by:				Date:		Time:
Relinquished by:				Date:		Time:
Received by:				Date: Tin		Time:

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ounty:		Lat/Long Upst	ream Reach:		_	
utfall #:	nstream Reach:		nte (circle one): yes			
Fish #	Genus	Species	Length (mm)	Comments		
001		ßS	146 mm	48.98		
002	Sample ) 1 of 2	BG	153 mm	57.78		
003		BG	152 mm	62.49		
004		BG	145mm	47.89		
005	Sample 3	ßG	138:nm	42.09		
006	20f2 (	13.5	145 mm	49.39		
007		BG	141 mm	44.15	44.15	
• •	of 75%tile of Longest l	Fish:				
Collected by:			Date	1,	Time:	
Relinquished by:			Date		Time:	
eceived by:			Date		Time:	

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ounty:		Lat/Long Upst	ream Reach:		_	
utfall #:	tream Reach:Du le one): runoff event l		ate (circle one): y			
Fish #	Genus	Species	Length (m	m) wf(6)	ments	
001 X	Saugh S	CC	505mm	11509	0126.13	
0029	10f2 (	CC	540 mm		12503	
0.000/10	Sample 5	CC	454 mm	7753	7753	
09411	20f Z/	CC	474mm	8753		
095/12	Sample	LMB	470mm	1550a	Drary=	
09/13	1082	LMB	385 mm	9009	_	
00714	Sample 2 of	LMB	385 mm	9000	3	
	f 75%tile of Longest Fi llected in Sample:	ish:	_	F	his is	
ollected by:			Da	ate:	Time:	
elinquished by:			Da	ate:	Time: _	
eceived by:			D	Date: Time		

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County: Lat/Long Downstream Reach:		Lat/Long Upstream Reach:				
Outfall #:	e one): runoff event	Duplicate/Replica	te (circle one): yes flow normal oth			
Fish #	Genus	Species	Length (mm)	Comments		
0\$15	Samle	LMB	364 non	8003	8003	
00716	202	Lms	345mm	6003		
08317	0135					
00418						
00\$19						
000 70						
007						
	75%tile of Longes lected in Sample:_					
Collected by:			Date:		Time:	
Relinquished by:			Date:		Time:	
Received by:			Date:	Date:		

Station #: MHL-1

Stream / Location: | Derrington Lake

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### SELENIUM FISH TISSUE CHAIN-OF-CUSTODY

County:		Lat/Long Upstr	eam Reach:		
Lat/Long Dow	nstream Reach:				
Outfall #:	1	Duplicate/Replicate	te (circle one): y	es no	
Flow status (ci	rcle one): runoff event	high flow low	flow normal	other	
Fish #	Sa mplati Genus A	F2 Species	Length (mn	n) witco	) mments
001	ASTASTASTASTA	LMB	366m	7509	male
002	Sample	KYB	334 m		Ovary = 4,260
003	Sample 1 stil	KYB	350 mm		-
004	Sample	FC	511 mm	1350	010195 9,11.59
005	7 062	FC	460 m		17
006	Sampl S	FC	620 mm	2865	3
007	2047	FC	865 mm	8913	3.
	of 75%tile of Longest Collected in Sample:				-7 4
Collected by:	-4		Da	te:	_ Time:
Relinquished	by:		Da	te:	Time: _
Received by:			Da	tot	Time:

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## SELENIUM FISH TISSUE CHAIN-OF-CUSTODY

nt/Long Down	stream Reach:	Lat/Long Upstr				_
		plicate/Replica				
Fish #	Genus	Species	Length		NT(5) Com	ments
0048	Yrof Sample 1 of 2	Be	160 m	um	58,99	
002	:					
003						
004						
005						
006						
007						
	of 75%tile of Longest Fi collected in Sample:					
collected by:	V			Date:		Time:
elinquished by	y:			Date:		Time:
eceived by:				Date:		Time:

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## SELENIUM FISH TISSUE CHAIN-OF-CUSTODY

		Lat/Long Upstr	eam Reach:		
outfall #:	tream Reach:le one): runoff event	Duplicate/Replica	te (circle one): y		
Fish #	Genus	Species	Length (m)	n) C	comments
00116		BB	147 mm	51.0	55
00217	Sample }	BG	147 mm	52.	65
003.18	2 of 2	BB	147 mm	52. 49	15
004					
005					
006					
007					
	f 75%tile of Longest bllected in Sample:_				
Collected by:	-		Da	ite:	Time:
Relinquished by	*		Da	ite:	Time:
Received by:			Da	ite:	Time:

Station #: MHL-1

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## SELENIUM FISH TISSUE CHAIN-OF-CUSTODY

ounty:		Lat/Long Upstr	eam Reach: _			_
utfall #;	tream Reach:le one): runoff event	Duplicate/Replica	ite (circle one):			
Fish#	Genus	Species	Length (	mm)	Com	nents
00/9	12 Sampleton	LMB	365 mi	м	6253	
09210	Sample 2 of 2	LMB	347 mm	n	5508	
00311	7	LMB	345 mm		5255	
09412		BG	161 mm	1	55.65	,
005/13	Sample 16F2)	BG	165 mm	^	73.78	4
00/9/14		BG	172 mm		83.58	
007 15	Sample 2012	BG	152 mi	^	51.75	
	f 75%tile of Longest bllected in Sample:					
ollected by:				Date: _		Time:
elinquished by	:			Date: _		Time: _
eceived by:				Date:		Time:

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SELENIUM FISH TISSUE CHAIN-OF-CUSTODY

Station #: Dix River (Below Dam)

County:		Lat/Long Upstr	eam Reach:	
outfall #:	ream Reach:Dı	uplicate/Replica	te (circle one): yes flow normal oth	no
Fish #	Genus	Species	Length (mm)	Comments
001	(Green Sunfish	(6SF)	159 mm,	81. #2s
Sample 1 of2	2 11	(GSF)	132 mm	39.89
003	11	Ì	119 mm	24.55
004	( "		105mm	21.68
2005 Sample 25f2	) 11		94 mm	14.59
006	/ "		96 mm	14.53
007	( "	V	92mm	12.19
ength (mm) of 7	21 ★1 = 3 ) Sav 75% tile of Longest Fi ected in Sample:			
ollected by:			Date:	Time:
elinquished by: _			Date: _	Time:
eceived hv			Dote	Time

Stream / Location: G Below Dam

KPDES Permit#: \_\_

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Date: 10-16-17
Time: 1630

# Station #: Station #: Station #: SELENIUM FISH TISSUE CHAIN-OF-CUSTODY

County:		at/Long Upstro	eam Reach: _			
Lat/Long Downsto Outfall #:	Du	plicate/Replication		2.00		
Fish #	Genus	Species	Length (		Comments	s
0018	Green Sunfish	(GSF)	96 mm		4.29	
50029 Control	) 11	ž i	87 mm		11.99	
00310	,,	11	92 mm		10.35	
00411	11	t r	79 mm		8.08	
300512 Sample 1 of 1	Blues: 11	136	134 mm		32.55	
00613	iv	11	112 mm		24.85	
00714	Longer Sunfish	LE	109 mm		26.13	
	75%tile of Longest Fis	sh:				
Collected by:				Date:	Tir	ne:
Relinquished by:				Date:	Tir	ne:
Received by:				Date:	Tir	ne:

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### SELENIUM FISH TISSUE CHAIN-OF-CUSTODY

	County:	tream Reach:	Lat/Long Upst	ream Reach	-		_
	Outfall #:		uplicate/Replicate				
	Fish #	Genus	Species	T	nal oth		ments
	00115	Lasgemointh Bass	LMB	341mm		5000	Ovary= , 7.89
	00216			m	2528	Over4 = 35,63	
	003/17	SpottedSude	55	256mm 207mm		1609	
1	Savet 18 /	11	1)				
	00\$19	1.	55	350 mm	M	5003	
	00620	Hogsucker	145	287 W	INA.	2850	9.920
	007 21	11	145	259 m	M	2855,	)
	Length (mm) of Total # Fish Col	75%tile of Longest Filected in Sample:	ish:				
	Collected by:				Date:		Time:
	Relinquished by:				Date:		Time:
	Received by:				Date:		Time:

Corrective Action Site Investigation, Source Assessment, and Risk Assessment Report

### **PHASE II**



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	MING	for lable		Sampling ID (e.g. L		CI
		cation Description Dam): あんんん			pu Mi	& /Lower
KDFWR \	Vildlife (	Collection	Notes / Observati	ons:	on mi	a plane y
Permit#:	26/15	7				
Date: (	e: 144	17018 40 - 2433 chal	courts			
GPS Coo	dinates	37.78378 84.	Seconds 7/197 ected electronically			
					1	7 6 0
Investiga		are JDJ, HI				ld, wake Imp.
	Flow st	atus (circle one):	runoff event hig	h flow lo	w flow n	ormal other
Sample #	Fish #	Genus	Species	Length (mm)	Weight (grams)	Comments
1064	001	Microplerus	sa molder	130	4975	
2064	002	n	12	131	450	
3064	003	-11	h	145	675	
4044	004	iN	17	160	1050	
101.7	005	Leponis	macrochines	64	71.2	leasional
2064	006	vi	L	517	61,9	
30/2 Y	007	ıl	n	519	46,0	
4044	800	u	t l	52	37 9	
v	009					
	010					
	011					
	012					
	013					
	015					
	200	(mm) of 75%tile		Total # Fi	sh Collecte	d in Sample:
		est Fish:		Date:		T:a:
14	Collecte	a by: ished by:		Date:		Time:
	Receive	YOUR COMPANY OF THE PARK OF TH		Date:		Time:



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	ke or Ri		0		Location	7.7		
	TFUL POLICE	cation Description		ID (e.g. LHL-2):				
	ove Dix [			~				
		Collection	Notes / Observation	ons:				
Permit#								
Date:	5/19/13	8						
Start Tin		820						
	rdinates							
100		an be found if colle	ected electronically		Er Luckton			
Investig	ators:			Weather	at Start:			
	Flow st	atus (circle one):	runoff event hig	h flow lo	w flow n	ormal other		
Sample #	Fish #	Genus	Species 1/6	Length (mm)	Weight (grams)	Comments		
001	001	Pylodicti	o Tracks	239	2639	Fresh Dead on t		
	002	Productes	olivaris	25.3	7923			
002	003	Pylodietis	Olivaris	182	1175	but hept as se		
	004	/				1		
	005							
	006							
	007					- 4		
	800							
	009							
	010							
	011							
	012							
	013							
	014							
	015							
		(mm) of 75%tile est Fish:		Total # Fi	ish Collecte	ed in Sample:		
	Collecte	d by:	00	Date:		Time:		
		ished by:		Date:		Time:		
	Receive	d by:		Date:		Time:		



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H-e	ke or Riv	ton take	7	Sampling ID (e.g. l	Location .HL-2):	Q			
rish San	npling Lo	cation Description							
KDFWR Permit#	Wildlife C : ゝ゚゚゙゙゙゙゚	Collection 8//27/	Notes / Observations:						
Date: 6	ne: //	3/1/		truas in	sheere F	-chi			
SPS Coo	rdinates	37.78 305	84.7/18/ ected electronical						
investig	ators:	pur DJ	HOT	Weather	at Start: &	tol suring			
	Flow sta	atus (circle one):	runoff event hi	gh flow lo	w flow n	ormal other			
Sample #	Fish #	Genus	Species	Length (mm)	Weight (grams)	Lomments			
$\infty$	001	Leponis	inaprochipe	4 11	138,5				
	002	٤(		6.6	98.7				
	003								
	004								
	005								
	006								
	007								
	008								
	009								
	010								
	011								
	012		i.						
	013								
	014								
	015								
	Length (	mm) of 75%tile		Total # F	ish Collecte	d in Sample:			
	Collected			Date:		Time:			
		shed by:		Date:		Time:			
	Received	by:		Date:		Time:			

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Study Lake or River: Hervingten Lake					Location .HL-2):	H Q1			
Fish San	npling Loca	ation Description	(1)						
	ove Dix Da		Iv	*0.000					
(DFWR Permit#	Wildlife Co	18 11270	Notes / Observat	tions:					
Date:	1 / /	2018							
	ne: 161	00							
SPS Coo	rdinates			. 27 7	210	(4)1777			
			ected electronical			1			
Investig		VEL, DJ, HA	)1		at Start:	,,,,,			
Flow status (circle one): runoff event high flow low flow normal other									
Sample #	Fish #	Genus	Species	Length (mm)	Weight (grams)	Comments			
10/2	001	Le poures	36	67	97,1				
20/2	002	Leponis Leponis	machochir	5 5,6	42.7				
U	003								
	004								
	005								
	006								
	007								
	008								
	009								
	010								
	011								
	012								
	013								
	014								
	015								
	Length (r	nm) of 75%tile st Fish:		Total # Fi	sh Collecte	d in Sample:			
	Collected	by:		Date:		Time:			
	Relinquis			Date:		Time:			
	Received	DY:		Date:		i ime:			



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17	ke or Rive	1 / /		Sampling ID (e.g. L	Location HL-2):	46
Fish Sam	pling Loc	ation Description				
KDFWR \	ve Dix Da	ollection	Notes / Observation	ons:		
Permit#: \$\(\frac{18}{127}\) Date: \(\frac{16}{18}\) Start Time: \(\frac{17}{3}\)			2039 Secon Both NYS	rules si	hock to	ine
			Both 1175	banks	w/n	o docks
GPS Coo	rdinates				1	
			ected electronically			///
Investiga		3L DT HD			at Start: 5	2
	Flow sta	tus (circle one):	runoff event hig	h flow lo	w flow n	ormal other
Sample #	Fish #	Genus	Species	Length (mm)	Weight (grams)	Comments
001	001	Leponis	macroch re>	7.1	1198	
	002	Lepanis	macrohis	7.2	122. 8	
	003	1	muchous	5.5	41.8	
	004	Leponis	macrothous	65	84.0	2.0
00/	005	Margaers	Salmonoides		640.0	epreivid &
	006		Sal men vices		5600	1 1
>	007	Mical feer,	salymonorles	17.7	1330	postspuntail
	800				-	
	009					
	010					
	011					
	012					
	013					
	014					
	015					
	of Longe				ish Collecte	ed in Sample:
	Collected			Date:		Time:
	Relinqui	shed by:		Date:		Time:



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	ke or Riv			Sampling Location ID (e.g. LHL-2):			
Fish Sam	pling Loc	ation Description		1			
	ove Dix D Wildlife C		Notes / Observation	ons:			
Date: (	1 / - /	18					
Start Tin							
GPS Coo		n be found if colle	ected electronically	):			
	ators: -	N-/		T	at Start: H	of Portically	
		itus (circle one):	runoff event high	h flow lo		ot fortially ormal other	
Sample #	Fish #	Genus	Species	Length (mm)	Weight (grams)	Comments	
00	001	Pylodiotos	olivaris	19.6	1540		
	002	Pylodietis	plagaris	20,4	1680		
	003	Pylodictis	el war 15	19.3	1380		
002	004	Tetaluris	punctatus	21,7	15-40	See pc 3	
	005		4			Patel 1	
	006						
	007						
	800						
	009						
	010						
	011						
	012						
	013						
	014						
	015						
	of Longe				sh Collecte	ed in Sample:	
	Collected			Date:		Time:	
	Relinquis			Date:		Time:	
	Received	by:		Date:		Time:	



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Study La	ke or Rive	ri con Lal	٩	Sampling Location ID (e.g. LHL-2): しみし /				
Fish Sam	pling Loca	tion Description	n					
KDFWR V	Vildlife Co		Notes / Observations: tot l. nes fished overight					
Permit#:		118	THOT I, has pis a country					
Start Tim		[13						
SPS Coor								
		be found if col	lected electronical	ly):				
Investiga	itors: DE	L, DJ		Weather	at Start: S	ing Hot		
		/	runoff event hi	gh flow lo	w flow n	ormal other		
Sample #	Fish #	Genus	Species	Length (mm)	Weight (grams)	Comments		
oud	001	Ictalis	punctatos	5217	1540	Sub a pingle		
	002	1				1		
	003	l,						
	004	Chane	edte					
	005	FUB	202 (cci	=)-LI+	1 to	1 1806/8 10		
	006							
	007	In ph	otos as	FW	3001	(CCF)-LHLI		
	008							
	009							
	010							
	011							
	012							
	013							
	014							
	015							
	Length (n	nm) of 75%tile st Fish:		Total # F	ish Collecte	ed in Sample:		
	Collected			Date:		Time:		
	Relinquis			Date:		Time:		
	Pacaivad			Date:		Time:		



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Fish San	npling Lo	cation Description	Kolalon NE			eve starta Escaleo	
Permit#	Wildlife (	Collection 1/270	Notes / Observati	E & SF boundsof cove start of Escale ntions:			
Start Tir	ne: /	041					
GPS Coo	rdinates	377823	5 84 70426 ected electronically	):			
Investig	ators:			Weather	at Start:		
	Flow st	atus (circle one):	runoff event hig	h flow lo	w flow n	ormal other	
Sample #	Fish #	Genus	Species	Length (mm)	Weight (grams)	Comments	
00)	001	Lepismis	macrochous	70	1168		
	002	Lepinis	maerchires	70	111.4		
	003	Lepinus	macralyus	65	88,2		
	004	Lepmis	macrahires	6.5	81,5		
	005	Lepinis	macrocheros	62	76,6		
001	006	Microphyrs	salvenoides	18.0	1250	spent & w/fail	
	007		Salmonoides	140	600		
	800	Miropherus	salinonoules	15,5	950		
	009						
	011						
	012						
	013						
	014						
	015						
	Length ( of Longe	(mm) of 75%tile est Fish:		Total # Fi	sh Collecte	ed in Sample:	
	Collecte	20.13*1		Date:	Time:		
		shed by:		Date:		Time:	
	Receive	d by:		Date:		Time:	



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Fish Sampling Location Description				Sampling ID (e.g. L	Sampling Location LHL 2			
				1 (0.9				
	ve Dix Dar							
KDFWR Wildlife Collection Permit#:			Notes / Observations:					
Date: C	7	8	-					
Start Tim GPS Coor			1					
		be found if coll	ected electronical	ly):				
Investiga	ators: PJ	Roll		Weather	at Start: /	tot Portiale		
	Flow state	us (circle one):	runoff event hi	gh flow lo	w flow n	ormal other		
Sample #	Fish #	Genus	Species	Length	Weight (grams)	Comments		
00/	001	Yladictis	divaris	19,1	1280			
	002	ylodictis	olivaris	18.7	1230			
	003	,						
	004							
	005				-			
	006							
	007							
	800							
	009					2		
	010							
	011							
	012							
	013							
	014							
	015							
	Length (m of Longest	m) of 75%tile Fish:		Total # Fi	sh Collecte	ed in Sample:		
	Collected i			Date:		Time:		
	Relinquish			Date:		Time:		
	Received I	ov:		Date:		Time:		



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Study Lake or River: Harrington Lake				Sampling Location ID (e.g. LHL-2): LHLS				
Fish Sam	pling Local ve Dix Dan	tion Descriptio	n					
KDFWR Wildlife Collection Permit#: \$\infty\s\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			Notes / Observations: Smallerer, made 2 passes 1396 second shock time					
GPS Coor (or where	dinates they can	be found if col	lected electronically	/):				
Investiga	tors: W	- DJ H	TCI	Weather	at Start:	my Hot		
	Flow state	us (circle one):	runoff event hig	h flow lov	w flow no	ormal other		
Sample #	Fish #	Genus	Species	Length (mmr)	Weight (grams)	Comments		
001	001	Lepomis	magocheros	58	58.8			
, ic	002	Leponus	mandus	6.6	89,8			
	003	1						
	004							
	005							
	006							
	007							
	800							
	009							
	010							
	011							
	012							
	013							
	014							
	015							
	Length (n	nm) of 75%tile t Fish:		Total # Fish Collected in Sample:				
	Collected	-		Date:		Time:		
	Relinquis Received			Date:		Time:		



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Study La			1 4	Sampling ID (e.g. l	Location LHL-2):	LHL 6
Fish San	pling Lo	cation Description				
Permit# Date: ( Start Tin	Wildlife ( : 50) (16/	Collection SII271	Notes / Observation	waterfact		
GPS Coo (or when	rdinates e they c	an be found if colle	84.689 73 ected electronically	r):		Por
Investig	ators: (2	EL, DJ, H	PT	Weather	at Start:	owns Hot
	Flow st	atus (circle one):	runoff event hig	h flow lo	w flow n	ormal other
Sample #	Fish #	Genus	Species	Length (mm)	Weight (grams)	Comment
00	001	Lepomis	marraduios	72	124.6	
	002	Lephris	in certains	67	94.7	-
	003	Lepomis	macochine	6,8	102.3	
	004	Leponis	mayo chins	63	78,8	
	005	Lepowalis	maroching	5.8	55.0	
001	006	Microphrus	salmonerile	D 147	780.	Ò
001	007	Micropara	salmonoide	139	700.0	
	008	Misopheris	salminorde	111	780.0	
	009					
	010					
	011					
	012					
	013					
	014					
	015					
		(mm) of 75%tile est Fish:		Total # F	ish Collecte	d in Sample:
	Collecte			Date:		Time:
		ished by:		Date:		Time:
	Receive	d by:		Date:		Time:



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Study La	YTIN		2	ID (e.g. L	Location HL-2):	-HL 6			
Fish Sam	pling Lo	cation Description							
(e.g. Abo KDFWR V Permit#:	Vildlife (	104 2 15 / 1	Notes / Observat	ions:					
Date: 6	1 - /1	8							
Start Tim									
GPS Coor (or where		an be found if coll	ected electronicall	y):					
Investiga	tors:			Weather a	at Start:				
	Flow sta	atus (circle one):	runoff event hig	gh flow lov	w flow n	ormal other			
Sample #	Fish #	Genus	Species	Length	Weight (grams)	Comments			
001	001	Productis	olivaris	165	720				
	002	Pylodictis	divaris	193	1175				
1	003	Pyladictis	olivaris	184	960				
001	004	Pylodictis	olivaris	17,4	780				
500	005	Fotalorus	punctatus	21,3	1650	0-66			
002	006	Idalorus	puntatos	5 A.3	825	as Fus ool			
	007					CLIF)-LHL			
	800					in ploto io			
	009								
	010								
	011								
	012								
	013								
	014								
	015	(mm) of 75%tile		Total # Fi	sh Collecte	ed in Sample:			
	of Longe	est Fish:			Jii conecte				
	Collecte			Date:		Time:			
	Receive	ished by:		Date:		Time:			



Document ID:	
Version #	
Effective Date:	
Page of	

	ke or Rive			Sampling	Location HL-2):	111 (-
	incle	tion Description		ID (e.g. L	HL-2): _	7100
rısıı sam (e.g. Abo	ve Dix Da	mi Ballel	rover			
KDFWR \	Wildlife Co	llection N	otes / Observat	ions:	11	ishel overnis
Permit#:			on-trotly	65	bart!	Steel CO DI MIY
Date: 6		/ 10				
	ie: 1000					
GPS Cool		be found if collec	ted electronically	v):		
	non-Cr			Weather	at Start:	
Investiga		us (circle one): ru	noff event his	th flow lov		ormal other
	Flow Stat	us (circle one): 10	mon event my	JII HOW TO	1100	N Strice
Sample #	Fish #	Genus	Species	Length (mm)	Weight (grams)	Comments
001	001	Ictalorus	gune tato	5 17.3	825	
	002					
	003	was	FWB	001(c	cF)-L	46-1806181
1 = 1	004					
	005					
	006					
	007					
	008					
	009					
	010					
	011					
	012					
	013					
	014					
	015					d in Comple
	Length (n of Longes	nm) of 75%tile st Fish:		Total # F	ish Collecte	ed in Sample:
	Collected	by:		Date:		Time:
	Relinquis			Date:		Time:
	Received	by:		Date:		Time:

### **APPENDIX D: SAMPLE COLLECTION FIELD DATA SHEETS**

Appendix D2: Young-of-the-Year Fish Sample Collection Data Sheets (Phase II)

## Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

Primary Fish Collect	or(s): AJS, ギル	Notes:								
Sampling Date(s):	July 17+4,2018	Occa	Sa	mplin						
Weather Forecast:	807 Sun/Cloud		7 3 3 4	V	0					
Air Temp: 80f Water Temp: ~v 80 f										
Supper										
Curds Inlet	HQ Inlet LHL1(Ro	ocky Arm) Li	lL2(Dix Dam)	LHL3 Co	ove LHL	6 Cove				
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,b</sup> (N=)				
9	Conds Indl	Minnow Klaps	930AM	1	15					
	Conde Indl rear Ital CI new outfal	Net Corg	) 1045AI	n 2	~500t					
						12.				
,										
both the left and right s b) For the YOY analytic captured of both the lef	Bass, a maximum of 100 indi sides of the fish (two photos al subsample of approximate ft and right sides of each ind	). ely 10 YOY bass (n	ninimum 5 gra	ams total weigl	nt), detailed im	agery will be				
Page <u>\</u> of <u>\</u>										

Page L of 1

## Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

<u> </u>		Notes:				
Primary Fish Collect Sampling Date(s):	July 20, 2018	* Analytical sample separate				vate
Weather Forecast:	LINK	A AI	nat yrice	o sam		•
Air Temp: 30f Wat	ter Temp: 76f					
wio	YOY Ba	ss Sampling Reg	ion (circle o	ne):		
Curds Inlet	HQ Inlet LHL1(Ro	ocky Arm) Li	HL2(Dix Dam)	LHL3 C	ove LHL	6 Cove
Sample ID:	Sampling	Sampling	Start	Sampling		
e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Location Description e.g. 50' north of CI2, west shore)	Method (Seine, Electrofish, Minnow Trap etc.)	Time (24hr clock)	Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,t</sup> (N=)
	o come of outfall + just downstee east shore	Seins n (5 hank	1030	0.25	598	
	M	(2 hauls)	ŀ	0.25	1282	
both the left and right b) For the YOY analytic	Bass, a maximum of 100 indi sides of the fish (two photos cal subsample of approximate oft and right sides of each ind	). ely 10 YOY bass (n	ninimum 5 gra	ıms total weigi	ht), detailed im	agery will be

### Herrington Lake Young-Of-The-Year (YOY)

	FISH	COLLECTION E	FFORT FOR	RM	RA	MBCLL
		-			eased vi	270 Jersida Minhows
Curds Inlet		ss Sampling Reg	ion (circle o	-	ove LHL	6 Cove
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size	No. in Photo <sup>a,l</sup> (N=)
	Middle CIO dry outfa Near CIZ Midde OI	2) Seine Net	1500	.73	181	
	midde OI a wetout fall new CI 2.I	(2 pulls)	1545	. 25	49*	
		V				
Ŧ.						
both the left and right	Bass, a maximum of 100 indi sides of the fish (two photos cal subsample of approximate	).			_	

captured of both the left and right sides of each individual (two photos) before they are frozen for shipment to the laboratory.

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Page <u>l</u> of <u>l</u>

## Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

Primary Fish Collec	itor(s): ASJ, DJ	Notes:				
Sampling Date(s):	Tuly 20,2018					
Weather Forecast:	Sunny, possibly cain					
Air Temp: 72° Wat	ter Temp: CSt mate 80-850					
	YOY Bas	ss Sampling Reg	ion (circle or	ne):		
Curds Inlet	HQ Inlet LHL1(Ro	ocky Arm) Li	HL2(Dix Dam)	LHL3 C	ove LHL	6 Cove
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,l</sup> (N=)
	Lover Curds CT-4 westshor	Seine	10:45	2 hvs 15 min	31	
both the left and right b) For the YOY analytic	Bass, a maximum of 100 indi sides of the fish (two photos ical subsample of approximate eft and right sides of each ind	). ely 10 YOY bass (n	ninimum 5 gra	ams total weigl	ht), detailed im	nagery will be

## Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

Primary Fish Collec	tor(s). 7 21 de	Notes:	,			
Sampling Date(s):	NAL	di a dive	left.	right) o	exermined	! by looking
Weather Forecast:	Towest Alan				(C) (C) (Michigan	03 (0)
Air Temp: ~ 700 Wa	Air Temp: ~ 700 Water Temp: estimate 80.850 into the cave/intet					
		ss Sampling Reg	ion (circle o	ne):		
Curds Inlet			· HL2(Dix Dam)		ove LHL	6 Cove
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a</sup>
	3.2 transact right bank theth bank	Trap	10110	30 mins	10	
	mouth of inlet right side 3006+ Fompoint	trap	131.35	Smins	VO	
both the left and right b) For the YOY analytic	Bass, a maximum of 100 indi sides of the fish (two photos cal subsample of approximate fft and right sides of each ind	). ely 10 YOY bass (m	ninimum 5 gra	ams total weigl	nt), detailed im	agery will be

## Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

<u> </u>	11311		FFORT FOR			
Primary Fish Collect		Notes:	1, 0	. 111	da la maria	1 by
Sampling Date(s):		Notes: directions (left, right) determined by looking into the coverinlet				
Weather Forecast:	13 CATHOL COLLEGE	Insking in	o the e	ove (inlest		
Air Temp: ~ 100 Wat	er Temp: est pale 80 85					
t made and	YOY Ba	ss Sampling Reg	ion (circle o	ne):		
Curds Inlet	HQ Inlet LHL1(Re	ocky Arm) Li	HL2(Dix Dam)	LHL3 C	ove LHL	6 Cove
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,b</sup> (N=)
	all of lower Curdle inlet	traps	14:15	Mr 30mis	48	
n						
( ) in (	¥-				,	
,						
10.00	E					
both the left and right b) For the YOY analytic	Bass, a maximum of 100 ind sides of the fish (two photos cal subsample of approximat ift and right sides of each ind	s). ely 10 YOY bass (r	ninimum 5 gr	ams total weig	ht), detailed im	agery will be

## Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

Primary Fish Collect	tor(s): A 55,	Notes:					
Sampling Date(s): .	July 22,2	018					
Weather Forecast:	75 clou	dy					
Air Temp: 70 Wat							
7		YOY Bass Samplin	g Region (circle o	one):			
Curds Inlet	HQ Inlet	LHL1(Rocky Arm)	LHL2(Dix Dam	) LHL3 C	ove LHL	6 Cove	
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Samplin Location Desc e.g. 50' north of ( shore)	ription Metho	rofish,	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,b</sup> (N=)	
	Lover CI West Bar	nk traps	940am	0.5	27		
lotes:  1) For unaffected YOY Bass, a maximum of 100 individuals will fit within 20" X 10" image field, providing detailed imagery of both the left and right sides of the fish (two photos).  1) For the YOY analytical subsample of approximately 10 YOY bass (minimum 5 grams total weight), detailed imagery will be aptured of both the left and right sides of each individual (two photos) before they are frozen for shipment to the laboratory.							

## Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

Primary Fish Collect	or(s): ASSEW	Notes:				
Sampling Date(s):	Tul is					
Weather Forecast:	Rain 70f		<u>~</u>			
Air Temp: 10 Wate	er Temp: ~ 8 Of					
Curds Inlet	` .	ss Sampling Regi	on (circle or IL2(Dix Dam)	ne): LHL3 C	ove LHL	6 Cove
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,b</sup> (N=)
1	bower CI	Trapo	945am	,5	4	
94	eastshore	17	1015	Alpe	52	
8	×					
	ž. :					
Notes: a) For unaffected YOY	Bass, a maximum of 100 inc sides of the fish (two photo	lividuals will fit wi	thin 20" X 10"	image field, p	roviding detail	ed imagery of
b) For the YOY analytic	cal subsample of approxima ft and right sides of each in	tely 10 YOY bass (	minimum 5 gr os) before the	ams total weig y are frozen fo	pht), detailed in or shipment to	nagery will be the laboratory.
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## Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

ir Temp: 40+Wate	Sunny 80t					
Lower Curds Inlet	' )	ss Sampling Regi	on (circle or L2(Dix Dam)		ove LHL	6 Cove
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,b</sup> (N=)
	ROCK BOW	Minnay Traps (14)	1190	1. Thrs	56	
	î.	Dip Net	1200	the is	53	
20 _	* 11	Mimow Klaps (14)	1230	,3hr	25	
	),	11	1330	.3hr	7	
la i	~	Dip	1345	. 25	8	<u>.</u>
	ìı	Minnow Traps(14)	1440	,25	. 11	
		P.P Ned	1440	15	1)	

## Herrington Lake Young-Of-The-Year (YOY)

		COLLECTION E	FFORT FOR	,M	franklike		
	or(s): AJS DJ	Notes:					
Sampling Date(s):	Thur Jul 26th						
Weather Forecast:	85f Sunny						
Air Temp: 164 Wat	er Temp: 82-844						
6 50	YOY Ba	ss Sampling Regi	on (circle or	ne):			
Curds Inlet HQ Inlet LHL1(Ro		ocky Arm) LF	ky Arm) LHL2(Dix Dam) LHL3 Cove LHL 6 Cove				
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,b</sup> (N=)	
	Rad Share Nock Bowl near point	nvinos Trops (141)	9 AM	Ihr	80		
	n	dip	9 30AM	0.254	8		
	и	MINNOW YJaps	300pm		28		
	11	Electro Shocking	345pm	05hr (3435)	43		
both the left and right b) For the YOY analyti	Bass, a maximum of 100 inc sides of the fish (two photo ical subsample of approxima	s). tely 10 YOY bass (ı	minimum 5 gr	ams total weig	nt), detailed in	nagery will be	

Page 🗘 of 🗎

## Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

Primary Fish Collect	or(s): ATS 0.T	Notes:						
Sampling Date(s):	Jul 76th, 2018							
Weather Forecast:	26t Sunn							
Air Temp: 86 + Wate								
YOY Bass Sampling Region (circle one):								
Curds Inlet HQ Inlet LHL1(Rocky Arm) LHL2(Dix Dam) LHL3 Cove LHL 6 Cove								
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,b</sup> (N=)		
	Ha Inled	Flettro	1100	18 <b>4</b> 35 (1hr)	144			
5	Hay of Next & Ha Turbel of West	bend "	1200	(1675) :75hr	77			
	3							
Notes:  a) For unaffected YOY Bass, a maximum of 100 individuals will fit within 20" X 10" image field, providing detailed imagery of both the left and right sides of the fish (two photos). b) For the YOY analytical subsample of approximately 10 YOY bass (minimum 5 grams total weight), detailed imagery will be captured of both the left and right sides of each individual (two photos) before they are frozen for shipment to the laboratory.								

## Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

<b>Primary Fish Collect</b>	or(s): ATS DT	Notes:				
Sampling Date(s):	July 25, 2018					
Weather Forecast:	Sunn 85F					
Air Temp: つくんWate						
	YOY Bas	ss Sampling Reg	ion (circle o	ne):		
Curds Inlet	HQ Inlet LHL1(Ro	ocky Arm) LI	HL2(Dix Dam)	) LHL3 C	ove LHL	6 Cove
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,t</sup> (N=)
	Each v100ft Bank	Electio Shoch	1340	1 5 boch 40	61	
	e e:					
W 0	_					
w A :						
Notes:						
a) For unaffected YOY I both the left and right s b) For the YOY analytic captured of both the lef	Bass, a maximum of 100 indi sides of the fish (two photos) al subsample of approximate ft and right sides of each indi	). ely 10 YOY bass (n	ninimum 5 gra	ams total weigh	nt), detailed im	agery will be
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## Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

		COLLECTION E			-	
Primary Fish Collect	or(s): Forest Alan	Notes:	(1.0	ELI de	te anima of	hu lookina
Sampling Date(s):	7-24-18	directions	Methic	igm) UIO	I ON AMMATE CL	ing initing
Weather Forecast:	~800 Sunny	into the	covelint	et		
Air Temp: 90° Wate						
190	YOY Ba	ss Sampling Regi	on (circle o	ne):		
Curds Inlet	ocky Arm) LH	ky Arm) LHL2(Dix Dam) LHL3 Cove			LHL 6 Cove	
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,b</sup> (N=)
2 % 1	Woterfall at back of Invest	dip net	13.00	48 mins	6	
						*
10 To 20 To						
both the left and right	Bass, a maximum of 100 in sides of the fish (two photo ical subsample of approxima eft and right sides of each in	os). otely 10 YOY bass (	minimum 5 a	rams total weig	ht), detailed in	nagery will be

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## Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

		COLLECTION E	FFORT FOR	RM	Uhasa		
Primary Fish Collect	tor(s): Fonest, Alan	Notes:				1	
Sampling Date(s):	directions (left, right) determined by looking into the coverlinet						
Weather Forecast:	1 De mark l'alest						
Air Temp: 726 Wat	100King into the continue						
	YOY Bas	ss Sampling Reg	ion (circle o	ne):			
Curds Inlet HQ Inlet LHL1(Ro		ocky Arm) LHL2(Dix Dam)		LHL3 C	LHL3 Cove LHL 6 Cove		
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,b</sup> (N=)	
	left side of Ha inlet, 2008tof	Seine	(0:35	(O mins	0		
	Ha inlet, 200ft of right side of Ha Inlet, 300 ft of Shareline caesal	Seine	10:50	1hr	15		
	1/	dip net	11:50	40 mins	1		
H .	* 9				, 1		
8 > 1	11 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2 /2						
both the left and right b) For the YOY analyti	Bass, a maximum of 100 ind sides of the fish (two photos cal subsample of approximat eft and right sides of each inc	s). ely 10 YOY bass (ı	ninimum 5 gr	ams total weig	ht), detailed im	agery will be	

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# Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

		COLLECTION E	Vicini and an arrangement of the contract of t	.1-1		N/A
	or(s): Fowerh Alan	Notes: directions	(left)	soft de	termined	by
Sampling Date(s):	7-21-18					J
Weather Forecast:	~700 swmy	looking in	to the c	arelialet	-	
Air Temp: 10° Wate	er Temp: est mate 90-950	~				
	YOY Bas	s Sampling Regi	on (circle of	ne):		
Curds Inlet	HQ Inlet LHL1(Ro	cky Arm) LH	IL2(Dix Dam)	LHL3 Co	ove LHL	6 Cove
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,b</sup> (N=)
[5][-1]	Pallen Branch at waterfall at back of Inlet	Trap	14'10	Smins	= 2	
	right side of injet. Start at . 200 feet from water	Seine	14140	2hrs 20min	105	
	> Covered ~ 200 ft of bank					
	K <sup>o</sup>					
both the left and righ	Y Bass, a maximum of 100 in it sides of the fish (two phot tical subsample of approxim left and right sides of each i	03/	Collection of E	grame total we	aht), detailed	imagery will be

### Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

Drimanu Fieb Celler	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Notes:	TOKT TO		- Carrell		
Sampling Date(s):	tor(s): Foncst Alan	Notes:	(left)	ciahl de	elemined	by looking	
Weather Forecast:	~70° swmy		× .		7 (0////////	, 2	
	er Temp: estimate 80 85°	Into the c	iove/inlet				
	YOY Ba	ss Sampling Reg	ion (circle o	ne):			
Curds Inlet	HQ Inlet LHL1(Re	ocky Arm) Li	HL2(Dix Dam)	LHL3 C	LHL3 Cove LHL 6 Cove		
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,b</sup> (N=)	
	Fallen Branch at waterful at back of inlet	Traps	10:00	10mins	1		
		1					
# · · · · · ·	21						
н = -							
Notes:	Poor a maximum of 100 is a		hi- 20" V 16"	inna Cald		41	
both the left and right b) For the YOY analytic captured of both the le	Bass, a maximum of 100 indi sides of the fish (two photos cal subsample of approximate ft and right sides of each ind	). ely 10 YOY bass (n	ninimum 5 gra	ams total weig	ht), detailed im	agery will be	
Page <u>l</u> of <u>l</u>							

## Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

	or(s): 422 DJ	Hores.	FW 2	AW AV	LINGEN IN	Ha
Sampling Date(s):	ul 20, 2018		2 1400	- Conti	nued Se	ining
Weather Forecast:	Mixed 80+	1	mh	Jest Sh	, e	
Air Temp: 10 Wate	er Temp: ~ 18 f - 80f					
	YOY Ba	ss Sampling Reg	ion (circle o	ne):		
Curds Inlet	HQ Inlet LHL1(Re	ocky Arm) Li	1L2(Dix Dam)	LHL3 C	ove LHL	6 Cove
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,</sup> (N=)
	Inner HQ Oback	Sein (3 hauls)	1300	1.0W	40+10+10 v=60	
	H2 Word Shore	(5 houls)	1400	0.3hV	~ 20fish	
both the left and right sb) For the YOY analytic captured of both the le	Bass, a maximum of 100 ind sides of the fish (two photos cal subsample of approximat ft and right sides of each ind	). ely 10 YOY bass (n	ninimum 5 gra	ams total weig	ht), detailed im	agery will be
Page of						

### Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

Primary Fish Collect	tor(s): AUS, FW	Notes:				
Sampling Date(s):	July 174h, 2018					
Weather Forecast:	800 Sunny					
Air Temp: 10 (Wat	er Temp: 814					
	YOY Ba	ss Sampling Reg	ion (circle o	ne):		
Curds Inlet	HQ Inlet LHL1(R	ocky Arm) Li	HL2(Dix Dam)	LHL3 C	ove LHL	6 Cove
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,b</sup> (N=)
	HO Intel	Minow	1015	.25	~10	
	Ha Inled	Seine	1300	851	65	
both the left and right b) For the YOY analytic captured of both the le	Bass, a maximum of 100 ind sides of the fish (two photostal subsample of approximate in the first and right sides of each index	s). ely 10 YOY bass (n	ninimum 5 gra	ams total weigl	nt), detailed im	agery will be
Page of						

## Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

Primary Fish Collec			Notes:				
Sampling Date(s):	July 22,	2018					
Weather Forecast:	75 clardi	(					
Air Temp: 70 Wat	ter Temp: ~9∂	3					
		YOY Ba	ss Sampling Reg	ion (circle or	ne):		
Curds Inlet	HQ Inlet	LHL1(Ro	ocky Arm) Li	HL2(Dix Dam)	LHL3 C	ove LHL	6 Cove
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Samp Location De e.g. 50' north o shore	escription of CI2, west e)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,b</sup> (N=)
	LHL-1. left fork@	Rockyfork Waterfall	Dip net	12 15	2	~570 +~190	
Notes: a) For unaffected YOY both the left and right b) For the YOY analytic captured of both the le	sides of the fish cal subsample of	(two photos f approximate	). ely 10 YOY bass (n	ninimum 5 gra	ms total weig	ht), detailed im	agery will be
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Page <u>l</u> of \_

## Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

		FISH	COLLECTION E	FFORT FOR	RM	III.A.Y.	IMPO PE
<b>Primary Fish Collect</b>	or(s): AJS, F	iu.	Notes:				
Sampling Date(s):	July 17+2	~,2018	]				
Weather Forecast:	80th 21	inny					
Air Temp: 76€ Wat	er Temp:し名しん	į. t					
		YOY Ba	ss Sampling Reg	ion (circle o	ne):		
Curds Inlet	HQ Inlet	LHL1(R	ocky Arm) Li	1L2(Dix Dam)	LHL3 C	ove LHL	6 Cove
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Samplir Location Des e.g. 50' north of shore)	cription CI2, west	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,b</sup> (N=)
	LHL3 Innes C	ove	Seine Net	1400	1,5	25	
	,						
Notes: a) For unaffected YOY both the left and right b) For the YOY analytic captured of both the le	sides of the fish ( cal subsample of a	two photos pproximat	s). ely 10 YOY bass (n	ninimum 5 gra	ams total weig	ht), detailed im	agery will be

### Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

Primary Fish Collect	tor(s): Forcest Alan	Notes:				
Sampling Date(s):	7-20-18					
Weather Forecast:	Sunny					
Air Temp: 72 Wat	er Temp: est note 80 85					
	YOY Ba	ss Sampling Reg	ion (circle o	ne):		
Curds Inlet	HQ Inlet LHL1(Re	ocky Arm) Li	HL2(Dix Dam)	LHL3 C	ove LHL	6 Cove
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,b</sup> (N=)
	LHL-3 cove	Seine	15:00	(30 mins)	3	
both the left and right b) For the YOY analytic captured of both the le	Bass, a maximum of 100 ind sides of the fish (two photos cal subsample of approximat eft and right sides of each ind	s). ely 10 YOY bass (n	ninimum 5 gr	ams total weig	- ht), detailed im	nagery will be
Page $\perp$ of $\perp$						

# Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

Primary Fish Collect	tor(s): forces	Alan	Notes:				
Sampling Date(s):	7-22-18						
Weather Forecast:	Overcast/	stightrain					
Air Temp: $\sim$ 65° Wat	er Temp: estimo	te 803850					
		YOY Bas	s Sampling Reg	ion (circle o	ne):		
Curds Inlet	HQ Inlet	LHL1(Ro	cky Arm) L	HL2(Dix Dam)	THE3 C	ove LHL	6 Cove
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Samplii Location Des e.g. 50' north of shore)	cription CI2, west	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,t</sup> (N=)
	LHL-30	iove	dip net	15:50	0.5 (30 mins)	2	
Notes: a) For unaffected YOY both the left and right b) For the YOY analytic captured of both the le	sides of the fish ( cal subsample of a	two photos) approximate	). ely 10 YOY bass (ı	minimum 5 gra	ams total weig	ht), detailed im	agery will be

Page  $\frac{1}{2}$  of  $\frac{1}{2}$ 

### Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

RAMBOLL

y		FISH COLL	ECTION E	FFORT FOR	RM	CLASE	THE PERSON NAMED IN
Primary Fish Collect	tor(s): AJS, F	W Note	s:				
Sampling Date(s):		218					
Weather Forecast:	Clardy	100					
Air Temp: 66 Wat	ter Temp: estimate	80,850					
		YOY Bass Sam	pling Regi	ion (circle o	ne):		
Curds Inlet	HQ Inlet	LHL1(Rocky Ar	m) LH	(L2(Dix Dam)	LHL3 C	ove LHL	6 Cove
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Descri e.g. 50' north of CI2 shore)	ption M , west (Seine,	mpling ethod , Electrofish, w Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,l</sup> (N=)
	LHL-3 Ce	we Tro	295	11:30	0.25	2	
Notes: a) For unaffected YOY both the left and right b) For the YOY analytic	sides of the fish (tw	o photos).				-	

captured of both the left and right sides of each individual (two photos) before they are frozen for shipment to the laboratory.

# Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

	(1) 1 200	Notes:				
Primary Fish Collect		Notes.				
Sampling Date(s):	July 24, 7018	-				
Weather Forecast:	86t Sunny	-				
Air Temp: 96 Wat	er Temp: 824	<u></u>				
	үоү ва	ss Sampling Reg	ion (circle oi	1e):		
Curds Inlet	HQ Inlet LHL1(Re	ocky Arm) Li	HL2(Dix Dam)	(LHL3 C	ove LHL	6 Cove
Sample ID:	Sampling	Sampling	Start	Sampling	Samula Sima	
e.g. (YOYBASS-001-LHL6), or	Location Description e.g. 50' north of CI2, west	Method (Seine, Electrofish,	Time	Duration	(N=)	No. in Photo <sup>a,b</sup> (N=)
(YOYBASS - 001TS - LHL6)	shore)	Minnow Trap etc.)	(24hr clock)	(in hrs)	( /	(11-)
da i	LHL3 care	(1)	930AM	Oshr	2	
	LALZ Norths	eb "	1800	) /	4	
		(7)	745AW	1 hV	Conly ac	lults)
20 B.	Įi ∞	GRIVA Leti (1pm	u)	.1841		
-	LHL3/4 Come NS	"(2 pull	3)	.shr	0	
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both the left and right b) For the YOY analytic	Bass, a maximum of 100 ind sides of the fish (two photos cal subsample of approximat eft and right sides of each ind	s). tely 10 YOY bass (r	minimum 5 gra	ams total weig	ht), detailed im	nagery will be
rage 📜 or 🔼						

Page \_\_\_ of \_\_\_

### Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

	FISH	COLLECTION E	FFORT FOR	KM .	- Vincenti	
Primary Fish Collect	or(s): AJS	Notes:				
Sampling Date(s):	Jul 26th , 2018	]				
Weather Forecast:	80F Sunn					
Air Temp: 90 Wat	er Temp: est. mate 80-15					
Hord	ling INLA YOY Ba	ss Sampling Reg	ion (circle o	ne):	:	
Curds Inlet	ocky Arm) Li	HL2(Dix Dam)	LHL3 C	ove LHL	6 Cove	
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,b</sup>
-	Both Bowks of NI	Electro	1330	1.0	41	
				(1-3-3)		
, 4 , 2					÷	
both the left and right b) For the YOY analytic	Bass, a maximum of 100 ind sides of the fish (two photos cal subsample of approximat eft and right sides of each ind	s). ely 10 YOY bass (r	minimum 5 gr	ams total weig	ht), detailed im	nagery will be

Page  $\perp$  of  $\perp$ 

## Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

	FISH	COLLECTION E	FFORT FOR	M	HALO	MID CITED	
Primary Fish Collect	tor(s): AJS, EW	Notes:					
Sampling Date(s):	Jul 16, 2018						
Weather Forecast:	80€ Rain						
Air Temp: ₹0€ Wat	er Temp: GLC						
HA	(DIN ILLES) YOY BA	ss Sampling Reg	ion (circle or	ne):			
Curds Inlet	HQ Inlet LHL1(Re	ocky Arm) Li	HL2(Dix Dam)	LHL3 C	LHL3 Cove LHL 6 Cove		
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,t</sup> (N=)	
	HI near post vary	Seine Nel	1800	. Shr	~230		
-	H-21					= +=\(\frac{100-00-00}{2}\)	
				15			
	*1						
both the left and right b) For the YOY analytic	Bass, a maximum of 100 ind sides of the fish (two photos cal subsample of approximat eft and right sides of each ind	s). ely 10 YOY bass (n	ninimum 5 gra	ıms total weig	ht), detailed im	agery will be	

# Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

Primary Fish Collect	or(s): AJS, DJ	Notes:				
Sampling Date(s):	Jul 25, 2018					
Weather Forecast:	Sunny					
Air Temp: 70° Wate	er Tempiositivo 80 8					
HAR	DIN ENLET YOYE	ass Sampling Reg	ion (circle o	ne):		
Curds Inlet	HQ Inlet LHL1(	Rocky Arm) LI	HL2(Dix Dam)	LHL3 C	ove LHL	6 Cove
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size	No. in Photo <sup>a,b</sup> (N=)
		seine (2) pulls	830an	,5	0	
1, 5						
£.7	567 E					
	Fi					
both the left and right b) For the YOY analytic	Bass, a maximum of 100 i sides of the fish (two phot cal subsample of approxim ift and right sides of each	os). ately 10 YOY bass (	minimum 5 gr	ams total weig	jht), detailed in	nagery will be

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### Herrington Lake Young-Of-The-Year (YOY)

	FISH	COLLECTION E	FFORT FOR	RM	Milla	ACT STATE	
Primary Fish Collect	tor(s): Udn, Alan	Notes:	f 1 0	× 1×	1 1	0 1	
	7-23-19	directions (left, right) is determined by					
Weather Forecast:		looking into the cove/inlet					
Air Temp: ~650 Wat	2.17.10.03						
	YOY Ba	ss Sampling Reg	ion (circle o	ne):		(h)	
Curds Inlet	HQ Inlet LHL1(Ro	ocky Arm) Li	HL2(Dix Dam)	LHL3 Co	ove LHL	6 Cove	
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS-001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,b</sup> (N=)	
	of water fall at end of cove	dip net	9050	2 hrs 10 nin	109		
	500 fl left of naterfall atend of cove	Seine	12:05	2 hrs	392		
	At waterfall out end of cove	traps	19:30	30min	11		
31 fr	Y						
e					<		
9	*	·			×		
both the left and right b) For the YOY analyti	Bass, a maximum of 100 ind sides of the fish (two photos cal subsample of approximateft and right sides of each inc	s). ely 10 YOY bass (ı	ninimum 5 gr	ams total weig	ht), detailed im	agery will be	

# Herrington Lake Young-Of-The-Year (YOY) FISH COLLECTION EFFORT FORM

Primary Fish Collecto	or(s): Don Man	Notes:	// 0	1 25		0 1
Sampling Date(s):		divertion	ns Clet	tiright)	determine	ed by
Weather Forecast:	~700 gumy	looking in	In the Co	ove/inlet		
Air Temp: ~70 Wate	er Temp: 051 wate \$0-650					
	YOY Bas	s Sampling Reg	ion (circle or	ne):		
Curds Inlet	HQ Inlet LHL1(Ro	cky Arm) Li	HL2(Dix Dam)	LHL3 Co	ove LHL	6 Cove
Sample ID: e.g. (YOYBASS-001-LHL6), or (YOYBASS - 001TS - LHL6)	Sampling Location Description e.g. 50' north of CI2, west shore)	Sampling Method (Seine, Electrofish, Minnow Trap etc.)	Start Time (24hr clock)	Sampling Duration (in hrs)	Sample Size (N=)	No. in Photo <sup>a,b</sup> (N=)
	Small cove on right when heading into LAL-6 cove	traps	91.35	20 mins	12	
	//		9:55	20 mins	8	
	left bank 23004 Emmaterlan	Seine	10:15	20 mins	504	
both the left and righ	Y Bass, a maximum of 100 in t sides of the fish (two photo cical subsample of approxima left and right sides of each in	)5). 	(minimum 5 0	rams total wei	aht), detailed i	magery will be
Page <u>1</u> of <u>1</u>	1					

### **APPENDIX D: SAMPLE COLLECTION FIELD DATA SHEETS**

Appendix D3: Lake Profiling and Surface Water Collection Data Sheets (Phase I Stratification and Overturn and Phase II Stratification)

Corrective Action Si	te Invectigation	Source Ace	accment and	Pick Acca	cement Renor
Corrective Action 5	te investigation	. Source Ass	essment, and	i Risk Asse	ssmem Reboi

### PHASE I STRATIFICATION AND OVERTURN

RAMBOLL	ENIVIDONI
	EINVIKOIN

Herrington Lake Transect Location   CL-1		
GPS Coordinates (or where they can be found if collected electronically)	CURPS INLET	a a
Investigators: BG KL	Date: 10-14-17	
Temperature/Depth/Oxygen Probe Used		
Probe Calibration Date 10-14-17		
Secchi Disk Depth 6.5		

epth feet)	DO (	(mg/L) Cond-	C(oC	emp or oF)	Stratification Layer (if known)	Was Surface Water Collected? (Y,N)	Sample ID (if collected)	Observer Notes, if any
5	4.03	0.382	21.83	7.40	NONE	У		3W-001(5)-CI-
KS+						/		
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	0.00	1			5-2			
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Notes

Dissolved oxygen DO

Temp

°C

Temperature
Degrees Celcius
Degrees Fahrenheit
milligrams per liter °F

mg/L Y/N Yes or No

RAMBOLL	ENVIRON

	1	1
Page	of_	1

Herrington Lake Transect Location   CT-2		
GPS Coordinates (or where they can be found if collected electronically)	CURPS INLET	
Investigators: BG K1	Date: 10-14-17	
BG, KL	Time: 1045	
Temperature/Depth/Oxygen Probe Used		
Probe Calibration Date 16-14-17		
Secchi Disk Depth 6 C+		

Depth (feet)	4	(mg/L) Cond.	1000	mp or oF) PH	Stratification Layer (if known)	Was Surface Water Collected? (Y,N)	Sample ID (if collected)	Observer Notes, if any
10	4.38	0.365	21.76	7.98	300X	У		36-001 (10)-(12-17
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Notes

Dissolved oxygen DO

Temp

Temperature Degrees Celcius °C

°F Degrees Fahrenheit

mg/L Y/N milligrams per liter

Yes or No

RAMBOLL	<b>ENVIRON</b>

Page	of	1
age		

Herrington Lake Transect Location   Description CI-3			
GPS Coordinates (or where they can be found if collected electronically)	CURDS INLET		
Investigators: 7 / 1/)		Date: 10-14-17	
BG, KL		Time: 11:15	
Temperature/Depth/Oxygen Probe Used			
Probe Calibration Date 10-14-17			
Secchi Disk Depth 6 CT			

Depth (feet)	6	DO (mg/L) Temp (oC or oF)		or oF)	Stratification Layer (if known)	Was Surface Water Collected? (Y,N)	Sample ID (if collected)	Observer Notes, if any	
10	4.49	0.348	21.79	8.14	NONE	V		30-001(10)-CI3-1	TIUK
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Notes DO Dissolved oxygen

Temp

Temperature
Degrees Celcius °C

°F Degrees Fahrenheit

milligrams per liter

mg/L Y/N Yes or No

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Herrington Lake Transect Location   CT 4			
GPS Coordinates (or where they can be found if collected electronically)	CURPS INLET		
Investigators:		Date: 10-14-17	
BG KL		Time: 1215	
Temperature/Depth/Oxygen Probe Used			
Probe Calibration Date 10-14-17			
Secchi Disk Depth 7 👫			

Depth (feet)	eet) (mg/L)		(000	mp or oF) PH	Stratification Layer (if known)	Was Surface Water Collected? (Y,N)	Sample ID (if collected)	Observer Notes, if any	7101
20	3.50	0.339	21,74	8.11	NONE	У		310-003/20)- (124-17)	710K
70	1.28	0.300	20.10	7.82	NONE	/y		SW-001 (70)-CI4-171	04
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Notes DO Dissolved oxygen

Temp Temperature

Degrees Celcius °C

°F Degrees Fahrenheit

mg/L Y/N milligrams per liter

Yes or No

Page \_\_\_\_\_ of \_\_\_\_

#### Herrington Lake Surface Water Quality and Dissolved Oxygen Profile Data Collection Sheet

Herrington Lake Transect Location HO -	
GPS Coordinates (or where they can be found if collected electronically)	Ha Inlet
Investigators:	Date: 043, 2017
	Time: (5 35
Temperature/Depth/Oxygen Probe Used	4ST SSO MPS
Probe Calibration Date Oct 3, 2017	WATER DEPTH 16 FT
Secchi Disk Depth 54+	

Depth (feet)	DO (mg	g/L)	Temp (oC or o	oF)PH	Stratification Layer (if known)	Was Surface Water Collected? (Y,N)	SAMPLE Sample-ID (if-collected) DEPTH 10 Ft	Observer-Notes, if any	
10	3.33	0368	22.33	8,24	NONE	4/10/4)	10 Ft	SW001(10)-HQ1-	17100
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Notes

Dissolved oxygen DO

Temp Temperature

°C Degrees Celcius

°F Degrees Fahrenheit

mg/L Y/N milligrams per liter

Yes or No

3	1
Page	of

#### Herrington Lake Surface Water Quality and Dissolved Oxygen Profile Data Collection Sheet

Herrington Lake Transect Location   HI -1	
GPS Coordinates (or where they can be found if collected electronically)	tardins Inlet
Investigators: A Smith, B Gorby	Date: 0(+ 3, 2017)
	1111le. 1557
Temperature/Depth/Oxygen Probe Used	SO MPS
Probe Calibration Date 3, 2017 MATER	FEM! DEFTH! 18++
Secchi Disk Depth 6 C+	

Depth (feet)	DO (n	DO (mg/L)		DO (mg/L)  Temp (oC or oF)		Stratification Layer (if known)	Was Surface Water Collected? (Y,N)	Sample ID (if collected) DEPTH	SAMPLE 10 Observer Notes, If any	
10	2.75	0.307	22.18	18.37	NONE	9(10/5)	10 FT	3W-001(10) HT1 -	1710	
						" (0)				
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			- To the state of							
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Notes

Dissolved oxygen DO

Temp

Temperature Degrees Celcius °C

Degrees Fahrenheit °F

milligrams per liter Yes or No

mg/L Y/N

#### Herrington Lake Surface Water Quality and Dissolved Oxygen Profile Data Collection Sheet

Herrington Lake Transect Location LHL-1 (One)	
GPS Coordinates (or where they can be found if collected electronically)	Rocky Fork / Rock Run
Investigators:	Date: OC+. 6 2017
A. Smith, B. Gaibe	Time: 16:00
Temperature/Depth/Oxygen Probe Used	4SI 650 MDS
Probe Calibration Date OC+ 6, 2017	
Secchi Disk Depth 6ft Water	Depth: 75 ft - 110 ft

Depth (feet)	DO (mg/L) 4 (Cond 2:85 (312) 0:10 (0:292		Ter (oC o	PH	Stratification Layer (if known)	Was Surface Water Collected? (Y,N)	SAMPLE Sample ID (if collected) Depth 2017 6017	SAMPLE Observer Notes, if any 1.12 - 48 Sw-001 (200) LHL1 Sw-002 (60) LHL1
0	2.85	0.312	22.	8.09	Epilinnion Lake Botton	Y	2044	SW-001(208) LHL1
)	0.10	0.292	19.23	7.74	Lake Botton	y	60ft	5W-002 (60) CHLI
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					12, 13, 14			

Notes DO Dissolved oxygen

Temp

Temperature
Degrees Celcius °C

Degrees Fahrenheit °F

mg/L Y/N milligrams per liter

Yes or No

Page | of |

Herrington Lake Surface Water Quality and Dissolved Oxygen Profile Data Collection Sheet

obe Calik cchi Disl	bration Date	on a lone o	sed		Date: 0 + 6, 2017 Time: 1/2/Am					
CCIII DISI	k Donth	200	6,20	17	1.101	EN DE	- OT 41 ·	196 F4		
	к Бериі	STI			WAI	GOL NA	3/1/11//		1	
Depth (feet)	DO (mg	IL)		or oF)PH	Stratification Layer (if known)	Was Surface Water Collected? (Y,N)	Sample ID (if collected) OEFTL	Observer Notes, if any		
20	4.11	0.313	22.47	18,56	Epillmnian	И	25 F4	5W-001(25) CHLZ	-1710	
30	3.55	0,319	21.54	7.92		0			200	
40	2.32	0.333	20.29	7.56	Tonof	y	506+	SW-002(50) CHLZ	-1710	
60	3.04	0,283	19.44	7.6	Themoclin					
50	1.17	6.279	15:76	7:47					100	
90	1,63	6-262	14-16	11,4/	,					
160	1,65	6.245	12.82	7.48	Hypolimnion	y	10014	SW-003(100) CHL2	-171	
120	1.13	0.244	12.06	7.5						
130	2.84	0.24	10.64	7.56				18 31		
140	3,93	0.23	9.61	7.62					x V	
160	1.85	0.236	9.09	7.76						
				The state of the s	The second second					
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	The second	100000						**************************************		

Notes

DO Dissolved oxygen

Temp Temperature

°C Degrees Celcius

°F Degrees Fahrenheit

mg/L milligrams per liter

Y/N Yes or No

46

### Herrington Lake Surface Water Quality and Dissolved Oxygen Profile Data Collection Sheet

Herrington Lake Transect Location 2/2-3	
GPS Coordinates (or where they can be found if collected electronically)	LHL3-Mile Marker 1 (One)
Investigators: A Smith, B. Guibe	Date: 0C+ 6 3017 Time: 17,00
Temperature/Depth/Oxygen Probe Used	451 650 MOS
Probe Calibration Date OCT. 6 2617	
Secchi Disk Depth & P-	Water Vepth 160

Depth (feet)	DO (mg/L)		V : Cond. & 1 PH		Layer Col	Was Surface Water Collected? (Y,N)	Sample ID (if collected)	SAMPLE ObserverNotes, if any. 3. D.	
20	3.08	0.315	22.06	7.97	Epilimnion	Y	20 44	5W-001(20) LHL3	
70	0.67	0.270	17.52	7.74	Thermocline	'y	70 CT	5W-002(70) CHL3 5W-003(100) CHL3	
100	0.68	0.248	13.28	7.98	Hypolinnion	y	pott	SW-003(100) CHC3	
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Notes DO Dissolved oxygen

Temp

°C

Temperature
Degrees Celcius
Degrees Fahrenheit °F

milligrams per liter Yes or No mg/L Y/N

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Page	of	

Herrington Lake Surface Water Quality and Dissolved Oxygen Profile Data Collection Sheet

Herrington Lake Transect Location LHL- 4	
GPS Coordinates (or where they can be found if collected electronically) See Trunk (e Uma	Mile 1/Mile 2 Marker
Investigators: AJS, BG	Date: 0c+7, 2017 Time: 1500
Temperature/Depth/Oxygen Probe Used	USI 850 MOS
Probe Calibration Date 0 + 7, 2017	
Secchi Disk Depth	Water Deoth: 160ft

Depth (feet)	60	DO (mg/L)		oF) H	Stratification Layer (if known)	Was Surface Water Collected? (Y,N)	Sample ID (if collected)	Observer Notes, If any
20	3.63 NA	2.272	21.65 NA	7.95	Epilimnion Metalimion	2 25	70	5W001(70)LHLY- 5W002(70)LHLY- 5W003(100)LHLY-
00	1.08 0 0	0.213	13.31	8,00	Hypotimnian	5	100	SW003 (100) CHU4-
	:							
					720			ALC:
A Total								
				•				

Notes DO Dissolved oxygen
Temperature
Degrees Celcius
Degrees Fahrenheit

Temp

°C

°F

milligrams per liter Yes or No

mg/L Y/N

#### Herrington Lake Surface Water Quality and Dissolved Oxygen Profile Data Collection Sheet

Herrington Lake Transect Location   L L-5	
GPS Coordinates (or where they can be found if collected electronically)	NE of Mallard Cove / Came Run
Investigators: A. Smith B. Gaise	Date: 6(4, 7 2017 Time: 10100
Temperature/Depth/Oxygen Probe Used	4SI 650 MDS
Probe Calibration Date oct. 7 2017	
Secchi Disk Depth & FF	Water Depth: 138

니성도 Depth feet)	DO &	DO (mg/L)  (oC or oF)  (if ke		DO (mg/L)  Temp (oC or oF)  (oC or oF)  (if known)  Water  Collected?  (Y,N)		Collected?	Sample ID (if collected) Depth	Sample Observer Notes, If any I)
7	€3.95	0.304	21.45	7.73	eailmnion	Y	30 81	SW001 (20) LHLS
D.	1.18	0.274	17.83	7.22	Motaliumon	V	70 ft	5W002(70)(HL5
	0.40	0.258	13.12	7.32	HypoLimnion	Υ	100 84	SW003 (100) LH/5
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Notes

Dissolved oxygen DO

Temp

Temperature Degrees Celcius °C

Degrees Fahrenheit °F

milligrams per liter Yes or No

mg/L Y/N

#### Herrington Lake Surface Water Quality and Dissolved Oxygen Profile Data Collection Sheet

Herrington Lake Transect Location   L H L - 6	
GPS Coordinates (or where they can be found if collected electronically)  See Trimble Yuma	Mile 3/Mile 4 Marken
Investigators: AJS, BG	Date: 0 c+ 7, 7017 Time: 1300
Temperature/Depth/Oxygen Probe Used	NOVE
Probe Calibration Date	INATER DEPTH ( 13044
Secchi Disk Depth 8 4+	

Sample Depth (feet)	16	DO (mg/L)		roF)	Stratification Layer (if known)	Was Surface Water Collected? (Y,N)	Sample ID (if collected)	Sangali Observer Notes, if any LO
	456 NA0287		21.6 NO 7.69		Epilimnion Top Theims	4	20	Shr001(20)(HL6-
70	246 1	0.270	13 441	7.57	Top Thems	y'	70	5W002 (70) [ HLG - 5W003 (100) LHLG -
00	2.41 4	6.238	13.440	7.44	Hypolimniss	9	100	2M 003 (100) CHT4-
	7							
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Valve (1)				6				
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-					1/2			3-

Notes DO Dissolved oxygen

Temp

Temperature Degrees Celcius ·°C

Degrees Fahrenheit °F

milligrams per liter Yes or No mg/L Y/N

Herrington Lake Surface Water Quality and Dissolved Oxygen Profile Data Collection Sheet

Herrington Lake Transect Location   DR-1	
GPS Coordinates (or where they can be found if collected electronically)	Dix River Below Dam
Investigators: KL, 1313	Date: 0 + 7, 2017 Time: / 515
Temperature/Depth/Oxygen Probe Used	451 650 MOS
Probe Calibration Date Oct 7, 2017	
Secchi Disk Depth	

Depth (feet) DO (mg/L)		DO (mg/L)		or oF) PH	Stratification Layer (if known)	Was Surface Water Collected? (Y,N)	SAMPLE Sample-ID (if collected) DEPTH	SAMPLE Observer Notes, If any	
/	5.78	10,271	18.79	7.76	NONE	4	184	Sw001(1) DR1	-1710
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Notes

Dissolved oxygen DO

Temp

Temperature Degrees Celcius °C

Degrees Fahrenheit milligrams per liter °F

mg/L Y/N Yes or No

RAMBOLL	ENVIRON
RAMBULL	ENVIKON

Herrington Lake Transect Location

Page \_\_\_\_ of \_\_\_\_

#### Herrington Lake Surface Water Quality and Dissolved Oxygen Profile Data Collection Sheet

GPS Coordinates (or where they can be found if collected electronically)					C	uvds?	Lulet	
Investigate	ors:						Date: V√o≻	Dec 11+1. 2017
Temperatu	re/Depth/Ox	ygen Probe U	lsed		45	I 650	MOS	
Probe Cali	bration Date	12/						what is a wre =
Secchi Dis	k Depth	5.51	CT		WATER	015074	18 Ft 1	
Depth -	DO	(mg/L) ~5/C C6~d·	Tem (oC or		Stratification Layer (if known)	Was Surface Water Collected? (Y,N)	Sample ID (if collected) Sept. 4	Sawl ID Observer Notes, If any
9	7.03	D. 48 X	(3.5)	8.04	NONE	Ч	9 44	

Notes

DO Dissolved oxygen
Temp Temperature

°C Degrees Celcius

°F Degrees Fahrenheit
mg/L milligrams per liter
Y/N Yes or No

Page \_\_\_\_ of\_\_\_

#### Herrington Lake Surface Water Quality and Dissolved Oxygen Profile Data Collection Sheet

nerrington	Lake Trans	ect Location	THC 7	(TWO)				
GPS Coord	dinates (or w ally) ರಾಜ್	here they ca	n be found if	collected	LHL	2 - Dix	Dam	Air Temp
nvestigato			h , 13		be		Date: De	E 11, 2017
<b>Temperatu</b>	re/Depth/Oxy	ygen Probe L	Jsed		USI	050 MDS	1	les (et h
robe Cali	bration Date	೧೬ -	6+h = 201	)	Checked r	2011,1017	(a)	inter Sympline 02
ecchi Dis	k Depth	9	F+ )					
			1 0		WA	tell depth	1= 190 F-	-
Depth (feet)	DO (r	mg/L) ws/C	Ter	np roF)ρ Η	Stratification Layer (if known)	Was Surface Water Collected? (Y,N)	Sample ID (if collected)	Observer Notes, if any
10	5.34	10.341	13.12	17.86	NONE	1377		
30 40	5.35	0.341	13.12	7.86		3 402564	25Ft	3WOO! (25) CHUZ-1712
60 70 90	5.33	13.341	13.12	7.86		-		
60	5.32	70.341	13,12	7.86				
70	5.30	15.341	13.17	7.86				
80	5.19	0.341	13.12	7.76				
(00)	5.26	0.341	13.12	7.86				
. 0	6.22	2.341	13,12	7.85		1		
10	5.14	0 341	13, 11	7.94				
130	4,65	10.340	12.78	7.80				
30	2.24	0.339	12.42	7.62	V			
50	1.68	10.337	12.30	7.56				i i i i i i i i i i i i i i i i i i i
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Notes

DO Dissolved oxygen

Temp Temperature

°C Degrees Celcius

°F Degrees Fahrenheit

mg/L milligrams per liter

Y/N Yes or No

Herrington Lake Transect Location

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Page	- 1	of	1

#### Herrington Lake Surface Water Quality and Dissolved Oxygen Profile Data Collection Sheet

GPS Coord			timble		LHLI - Rocky Run				
	A Svui	tl.	В.	500	be		Date: NA	SAMPEC 11 +1, 20	
Temperatu	re/Depth/Oxy	gen Probe U	lsed		96	I 656	MOS		
Probe Cali	bration Date		12/16	117	И	- U	W	ntersample & 15	
Secchi Dis	k Depth	8 6-1							
USI Depth 	DO (m	Cond	(oC or	oF) pH	Stratification Layer (if known)	Was Surface Water Collected? (Y,N)	Sample ID (if collected)	Sawel 10 Observer Notes, if any	
シset	5.56	0.334	13.09	7.92	NONE	Ч	25.44		
Doet		0.432							
							-		
					-				
				-					
			-						

Notes

DO Dissolved oxygen

Temp Temperature

°C Degrees Celcius

°F Degrees Fahrenheit

mg/L milligrams per liter

Y/N Yes or No

Page \_\_\_\_\_ of \_\_\_\_

#### Herrington Lake Surface Water Quality and Dissolved Oxygen Profile Data Collection Sheet

Herrington	n Lake Trans	sect Location	LHL	3					1
GPS Coordinates (or where they can be found if collected electronically)  See trumble Yuma					LH	L3			
Investigat	ors:	Smith Tygen Probe U	B	Garb			Date: Tues D	18=12+h 2017 45 Pm	
Temperatu	ure/Depth/Ox	ygen Probe U	sed /	0 - 0	UST	650 MK		95 / //	l
Probe Cal	ibration Date	12/64	17 Check	201 12/11	117 WAT	ER DEP	TH = 22	5 6 4	
Secchi Dis	sk Depth	= 9 Ft							l,
Depth (feet)	DO	(mg/L) ms/	Ter (oC o	mp or oF) РЦ	Stratification Layer (if known)	Was Surface Water Collected? (Y,N)	Sample ID (if-collected)	Observer Notes, if any	1
90	5.43	0,370	17.03	( 1 1 1	NONE				ĺ
30	5.41	0.340	13.03	7.91	p				
20	5.40	0.340	13.03	7.90			25 F+		
20	3.912	0.340	13.03	11.0		y	123 F+	5WOOI(25)-6HL3-17	1216
									i
		D							
						<b>!</b>			
								j	

Notes

DO Dissolved oxygen
Temp Temperature

°C Degrees Celcius
°F Degrees Fahrenheit
mg/L milligrams per liter

Y/N Yes or No

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Page	- /	of	/	

#### Herrington Lake Surface Water Quality and Dissolved Oxygen Profile Data Collection Sheet

Herringto	n Lake Transec	t Location	LHL	6				
GPS Coordinates (or where they can be found if collected						LHL	- 6	
J. Cot. Cime	Sea.	trina	ble 4	M.CL.				
Investigat	tors: A . S ure/Depth/Oxyg	ni lh	, B. (	sor he			Date: Time:	Dec 12+2,2017
Temperat	ure/Depth/Oxyg	en Probe U	Ised		T us	I 650 n	100	200
Probe Cal	libration Date	2/6/1-	7 - Charl	N 121	4/17	MATER	DEPTH -	200 FT
Secchi Di	sk Depth	76+			117 .		W, WHENKS	200 ft anple 2 25 ft
Depth (feet)					Stratification Layer (if known)	Was Surface Water Collected? (Y,N)	Sample ID (if-eoffected)	Sample Observer Notes, if any ID
90	4,98	0,329	13.08	7.87	NONE			
70	5.00	0.329	13.18	7.21	0			
50	5.05	0.330	13.08	7.87	"			
20	5.05	0.330	13.08	7.87	- 11	4	25F1	SUDDI(25) LHL6-1742
						-		
					D			

Notes

Dissolved oxygen DO Temperature Temp

°C Degrees Celcius Degrees Fahrenheit ٥F

milligrams per liter

mg/L Y/N Yes or No Corrective Action Site Investigation, Source Assessment, and Risk Assessment Report

### **PHASE II STRATIFICATION**



Page 1 of 1

### **Herrington Lake Surface Water Collection and Profiling Data Form**

Sampling F (e.g. Curds	Inlet):	Curds I	inlet		Herrington L Location (e.		C1-2		
GPS Coord (or where	inates they can b	e found if co	ollected elect	ronic			Yuma		
Investigate	Ors:	AJU	, Fw				Date: 6-21-18		
Water Qua	lity Probe	(e.g. YSI 650 M	10s): 650 W	291	1 × 120 √2 Start Time: 12; 46				
<b>Probe Calib</b>	bration Da	te: Jime ?	21,2018		Weather at s				
Secchi Disl	k Depth (ir	n feet): 2-	-3/F+				to bottom):2-10 81		
Notes or 0	bservation	ıs:	F:	Stratification Layers for Reference: Epilimnion - Sunlight zone with higher DO and water temp. Metalimnion (Thermocline) - water temp and DO drops. Hypolimnion - Deep zone - lower stable DO and water temp.					
YSI / SW Sample Depth (feet bws)	Dissolved Oxygen (DO in mg/L)	Conduct- ivity (mS/cm)	Water Temperature Oor °F)	рН	Stratification Layer (if known)	Surface Water Sample? (Y/N)	SW Sample ID		
0	0,65	0,220	29,746	9,03					
2	1.18	0,220	29,770	9.35					
4	1,48	0,206	29.716	9.30					
6	1.32	0.297	29.300	9.31					
P 8									
II									

Notes:

Degrees Celsius

°C °F Degrees Fahrenheit below water surface

bws

mg/L milligrams per liter

mS/cm milliSiemens per centimeter

Potential of Hydrogen рΗ



Page  $\perp$  of  $\perp$ 

#### **Herrington Lake Surface Water Collection and Profiling Data Form**

Sampling R	Region	<u>^</u> .	_ ,		Herrington Lake Transect Location (e.g. CI-1):				
(e.g. Curds	Inlet):	Curds:	Inlet		Location (e.	g. CI-1):	CL-2,1		
GPS Coordi		o found if co	allocted elect	ronic	allula de s	V	·		
Investigato		its if	llected elect	Office	ally):   mh	able /	Date: 6-21-19		
		(e.g. YSI 650 M		NOS					
				103			Start Time: 17. 26		
			27,2018				Cloudy 80		
Secchi Disk			L-5 TT		Stratification La	vers for Ref	to bottom):/0-/2-4		
	DSCI VICTORI		×.	Stratification Layers for Reference: Epilimnion - Sunlight zone with higher DO and water temp. Metalimnion (Thermocline) - water temp and DO drops. Hypolimnion - Deep zone - lower stable DO and water temp.					
YSI / SW Sample Depth (feet bws)	Dissolved Oxygen (DO in mg/L)	Conduct- ivity (mS/cm)	Water Temperature (°C) or °F)	рН	Stratification Layer (if known)	Surface Water Sample? (Y/N)	SW Sample ID		
O	1.43	0.220	29,780	9,46					
2	2.03	0,220	29.780	9.42					
4	2.02	0.220	29,776°	9.43					
6	1.96	0,240	29.52c°	9.3					
4	1.51	0.512	27,6 C°	8.45					
10	1.01	0.719	25.16	8441					
1		•							
08 H									

#### Notes:

°C Degrees Celsius

٥Ē Degrees Fahrenheit below water surface

bws milligrams per liter mg/L

mS/cm milliSiemens per centimeter

Potential of Hydrogen рΗ

Ý/N Yes or No





#### Herrington Lake Surface Water Collection and Profiling Data Form

Sampling F	Region S Inlet):	Curds	In(et		Herrington L Location (e.g		sect CI 2.2			
GPS Coord	inates						( )	l		
100			ollected elect	ronica	ally): 7 <u>c</u>	imble				
Investigate		55, FW			Date:					
					105 6920 V2   Start Time: 1100					
			15th, 2019	8	Weather at s					
Secchi Disk			L++				to bottom): 20ft			
Notes or O	bservation	is:		Metalimnion (Th	nlight zone v nermocline)	erence: with higher DO and water temp. - water temp and DO drops. lower stable DO and water				
YSI / SW Sample Depth (feet bws)	Dissolved Oxygen (DO in mg/L)	Conduct- ivity (mS/cm)	Water Temperature (°C)or °F)	рН	Stratification Layer (if known)	Surface Water Sample? (Y/N)	SW Sample ID			
10	10.86	0.566	26.04	8.26	NONE	9	SW001(10)-CI22-181	816		
							•			
			-							
							-			

Notes:

Degrees Celsius

°C °F Degrees Fahrenheit below water surface

bws

milligrams per liter mg/L

milliSiemens per centimeter mS/cm

Potential of Hydrogen рΗ

Yes or No Y/N

Page \_\_ of \_\_

#### Herrington Lake Surface Water Collection and Profiling Data Form

Sampling R	Region		8		Herrington L			
(e.g. Curds GPS Coordi	Inlet):	fords I	nlet	Location (e.	g. CI-1):	CI-3		
(or where	inates they can b	e found if co	liected elect	ronic	ally): Thir	Vin Y	the fl	
Investigate		AJS, PO		Office	111y). / #-[]-	DIE	Date: 6-21-18	
		(e.g. YSI 650 M		105	6920 VZ		Start Time: 10:50	
		te: June 2		~ <i>j</i>	Weather at s	tart: P	ain 78°FA	
Secchi Disk			) 2016	Water Depth				
Notes or O	bservation	is:		Stratification La				
21				Epilimnion - Sunlight zone with higher DO and water temp.  Metalimnion (Thermocline) - water temp and DO drops.  Hypolimnion - Deep zone - lower stable DO and water temp.				
YSI / SW Sample Depth (feet bws)	Dissolved Oxygen (DO in mg/L)	Conduct- ivity (mS/cm)	Water Temperature (Oor °F)	рН	Stratification Layer (if known)	Surface Water Sample? (Y/N)	SW Sample ID	
0	2.72	0,220	29,846	9.36				
2	1.98	0,220		9,29				
4	2.10	0,220	29.850	9.23				
6	2.07	0.235	29,360	9,14				
9	2.17	0,350	28,70	8.95				
10	1.70	0.629	25,850'	\$,55				
12	1.38	0,570	24,250	8,34				
14	1.57	0,584	24,43 C'	7.92				
16	0.51	0.510	23,68 C'	7.70				
18	0:31	0.520		7.62				
જ એ								

Notes:

°C Degrees Celsius °F Degrees Fahrenheit

bws below water surface mg/L milligrams per liter

mS/cm milliSiemens per centimeter pH Potential of Hydrogen

pH Potential of Y/N Yes or No



Page <u>1</u> of <u>1</u>

#### Herrington Lake Surface Water Collection and Profiling Data Form

	: Inlet):	Curds	Inlet		Herrington L   Location (e.g		CI 3.1	l		
GPS Coord	inates		ollected electi	ronica	W. Tri	mble	Yuma	1		
Investigate	- 1/2	AJS, FI		Office	y,: / · ·		Date: Sout June 16,	į		
		1.00	DS): 45I 65	ome	05,6920V2 Start Time: 1200					
Probe Calib	oration Dat	te: Fri Ju	me 15th, 20	18	Weather at s		of Sunny	1		
Secchi Disk			ft /		Water Depth		to bottom): 26 ff	]		
Notes or O	bservation	s:			Stratification Layers for Reference: Epilimnion - Sunlight zone with higher DO and water temp. Metalimnion (Thermocline) - water temp and DO drops. Hypolimnion - Deep zone - lower stable DO and water temp.					
YSI / SW Sample Depth (feet bws)	Dissolved Oxygen (DO in mg/L)	Conduct- ivity (mS/cm)	Water Temperature (Cor °F)	рН	Stratification Layer (if known)	Surface Water Sample? (Y/N)	SW Sample ID			
13	11.46	0.719	24.290	7.88	NONF	5)	SW001 (13)-013.1-180616			
							-			

Notes:

°C Degrees Celsius

Degrees Fahrenheit below water surface ٥F

bws

milligrams per liter mg/L

milliSiemens per centimeter mS/cm

Potential of Hydrogen рΗ

Yes or No Y/N



Page \_\_ of \_\_

#### Herrington Lake Surface Water Collection and Profiling Data Form

		Curds =	torlos		Herrington L	ake Trans	sect					
Sampling Region (e.g. Curds Inlet):  GPS Coordinates  Herrington Lake Transect Location (e.g. CI-1):  GPS Coordinates												
		a found if a	allocted clock		TY	inblo	Yuma					
Investigato		rs , FL	ollected elect	ronica	ally);	130						
			10s): 45I 85	SMA	5, 600xc	M	Start Time: 10 15 AM					
Probe Calib	ration Dat	te: June	20.20.0	5-1-15	Weather at		rizzle 80f					
		feet): 3					to bottom): 27 ft					
Notes or Ob			( )		Stratification La							
:21			*1	Metalimnion (Th	ermocline)	with higher DO and water temp. - water temp and DO drops. lower stable DO and water						
YSI / SW Sample Depth (feet bws)	Dissolved Oxygen (DO in mg/L)	Conduct- ivity (mS/cm)	Water Temperature	рН	Stratification Layer (if known)	Surface Water Sample? (Y/N)	SW Sample ID					
0	6.02	0.219	29,840	9.34								
2	4.90	0.219	29,860	9,31								
4	5,53	0.218	29.850	1.26								
6	5.58	0.220	29,850	9.28								
8	14,25	0,355	28,490'	8.9								
10	3.11	0.582	25,640	8.34								
12	2.47	0.623	25,10c'	804								
121	1.64	0.567	24. 286'	7.74								
16	1.21	0.534	23.966	7,75								
18	0.58	0.475	23,396	7.56								
20	0.31	0.392	22,650'	7.81								
	0,20	0.386	22.396	7.66								
24	0,16	0.395	22.300'	7.58								
26	0.15	0.402	22.360'	7,54								

#### Notes:

°C Degrees Celsius
°F Degrees Fahrenheit
bws below water surface
mg/L milligrams per liter

mS/cm milliSiemens per centimeter pH Potential of Hydrogen

Page  $\perp$  of  $\perp$ 

#### **Herrington Lake Surface Water Collection and Profiling Data Form**

					CAS .				
Sampling I (e.g. Curds	_	Curds I	inlet		Herrington Lake Transect CI-4				
<b>GPS</b> Coord	inates					, ,	М		
(or where			llected electi	ronica	ally):	mble	Juma		
Investigat		AJS, FL					Date: 6/ June 16, 201		
Water Qua	lity Probe	(e.g. YSI 650 M	DS): 650MI	05,6	920V2, 600		Start Time: 1300		
Probe Cali	bration Dat		15th, 2018		Weather at s	tart: 8	5°f Sunny		
Secchi Dis	k Depth (ir	rfeet): 3	Et		<b>Water Depth</b>	(surface	to bottom): 75-90++		
Notes or O <b>⊕</b> A	bservation dd.t.on	conf	rmation toble wa	`		nlight zone v	erence: with higher DO and water temp water temp and DO drops.		
	W, W	-10 por	net	e			lower stable DO and water		
YSI / SW Sample Depth (feet bws)	Dissolved Oxygen (DO in mg/L)	Conduct- ivity (mS/cm)	Water Temperature (°C)or °F)	рН	Stratification Layer (if known)	Surface Water Sample? (Y/N)	SW Sample ID		
0				-					
10	9.52	0,482	26.28	8.37		()	Shoo2(10)-(I4-136616		
20	4.77	0.711	24.38	7.8			A CONTRACT OF THE CONTRACT OF		
30	1,65	0,580	22.09	7.19					
40	0.86	0,396	19.41	7.09					
50	0.91	0.318	16.78	1.89					
60	0.98	0.300	14-32	5.66					
70	0.63	0.309	15.12	5.98		9	SW002 (70) - CI4-186616		
80	1,23	0,313	14.19	5.08					
0.	0 4		I - MA						
	Firmat		OOXCM	7 0					
	14.10	0.219	30.84	7.70					
10	11.00	0.645	26.27	7.33		-			
15	9.06	0.867	25.31	7.37					
20	1.12	0.408	22,86	7.17					
30	0.63	0.435	22.26	7,16					
40	0.51	0.350		7.20					
50	0.42	0.292		7,22					
60	0.42	0.292		7.27					
70	0.58	0.293		7.36					
80	0.56	0.293	18,90	7.41					
Notes:	Degrees Cel	ius			······································				
°F bws	Degrees Fah below water								
mg/L	milligrams p								
mS/cm		per centimeter	-						
pH Y/N	Potential of I Yes or No	VM 10000			2				
Con	Com	ation h	1. U-1	0					
10	10,70								
	8.52				<del></del>				
15	. 0 /								

Page  $\int$  of  $\int$ 



### Herrington Lake Surface Water Collection and Profiling Data Form

Region : Inlet):	HaInl	et	Herrington Lake Transect Location (e.g. CI-1):				
	e found if co	allected elect	ronic:	ally). Ty	mble	Yuma	
			Onic	311 <b>4</b> /1	04	Date: June 15, 2018	
			50 ,	6920 VZ		Start Time: 1530	
					tart: 9	OF Sunny	
Denth (ir	feet): 7 ~	3FL				2.1	
bservation debris very to portic	urbid w which w was/map	0 210ft	Stratification Layers for Reference: Epilimnion - Sunlight zone with higher DO and water temp. Metalimnion (Thermocline) - water temp and DO drops. Hypolimnion - Deep zone - lower stable DO and water temp.				
Dissolved Oxygen (DO in mg/L)	Conduct- ivity (mS/cm)	Water Temperature (°° or °F)	рН	Stratification Layer (if known)	Surface Water Sample? (Y/N)	SW Sample ID	
12,57	0.427205	30.52	8.9		± 3 <b>€</b> 2		
7.03	0.551627	25.26	7.06		4	SW001 (10) - HOI-18045	
0.53	0.428531	22,95	6.25				
0.54	0.428	21.30	6.04				
	0.367	19.79	5.82				
0.94	0.287	16.63	5.64		7	SW062(50)-HQI-18035	
Grmat	or w.	4SI 650,	XL	M 600			
14.26	0.222	31.25	8.89				
6.06	0.559		7.59				
0.52	0.343		7.47				
0.40	0.311	21.72	7.40				
0.38	0.314		7.36				
1,40	0.208	16.42	7.40				
	Dissolved Oxygen (DO in mg/L)  12,57 7.03 0.53 0.54 0.52 0.94 0.52 0.94 0.52 0.94 0.52 0.94 0.52 0.94 0.52 0.94	Inlet): No. Lw. Inates Inates Ithey can be found if coors: AJS, Fw. Ility Probe (e.g. YSI 650 M Dration Date: Jume (for Depth (in feet): 2-bservations; Iwa for Iwa fo	Inlet): No. Lw. (Sinates) Inates Inates Ithey can be found if collected elect Ins: AJS, FW  lity Probe (e.g. YSI 650 MDS): YSI 650 Ity Probe (e.g.	Inlet): No. L. W. L.	Location (e.g. inates   they can be found if collected electronically):   Transport   Tr	Location (e.g. CI-1): inates they can be found if collected electronically):  Ors:  AJS FW  lity Probe (e.g. vsi 650 MDS): USI 650, 6920 V2  Dration Date:  Depth (in feet):  Depth (in feet):  Depth (in feet):  Dissolved Oxygen (DO in mg/L)  I2.57  O.647  O.53  O.571  O.53  O.571  O.647  O.53  O.540  O.794  O.797  O.	

Notes:

°C Degrees Celsius
°F Degrees Fahrenheit
bws below water surface
mg/L milligrams per liter
mS/cm milliSiemens per centimeter

pH Potential of Hydrogen

Page  $\perp$  of  $\perp$ 



#### Herrington Lake Surface Water Collection and Profiling Data Form

Sampling F (e.g. Curds GPS Coordi	Region Inlet):	HLI ROO	cky Fork	,	Herrington L Location (e.g		sect LHLI
		e found if co	ollected elect	ronica	ally): Tri	mble	Yuma
Investigate	ors:	ATS, E	W				Date: June 15, 2018
Water Qua	lity Probe	(e.g. YSI 650 M	1DS): 45I650	0,69	2012,600	XLM	Start Time: 1320
Probe Calib	oration Dat	te: June	15,2018	,	Weather at s	itart: 🛷	86f Sunny
Secchi Disk			F+'		Water Depth	(surface	to bottom): ~ 86H
Notes or O	bservation	is: > w . 4	SI 650/	Stratification Layers for Reference: Epilimnion - Sunlight zone with higher DO and water temp. Metalimnion (Thermocline) - water temp and DO drops. Hypolimnion - Deep zone - lower stable DO and water temp.			
YSI / SW Sample Depth (feet bws)	Dissolved Oxygen (DO in mg/L)	Conduct- ivity (mS/cm)	Water Temperature (°C)or °F)	рН	Stratification Layer (if known)	Surface Water Sample? (Y/N)	SW Sample ID
0			_	_			
10	6.7	0.276	25.50	7.66		y	SW601(10)-LHL1-180611
20	4.3	0.354	22.59	7.36			*
30	2,23	0.347		6.97			
40	0.68	0.321	19.17	6.72			
50	0.58	0.302	16,47	6.35			
60	0.64	0.316	14.45	6.08			
70	0.75	0,306	15.46	6.15		y	SW002 (70)-142-180615
		13					
$\mathcal{C}$	antirmo	ition W.	800 XL	M			
Q	15.25	0.208	31.27	08.8			
10	5.61	0.269	21.29	8.07			
20	1.20	0.347		1.56			
30	0.68	0.333	21.74	7.41			
40	0.70	0.267	20.39	7.35			
50	0.34	0.232		7.32			
60	0.42	0,221	7	7.81			
70	0.32	0.216	13.54	7.69	_		
Notaci							L

Notes:

°C Degrees Celsius
°F Degrees Fahrenheit
bws below water surface
mg/L milligrams per liter

mS/cm milliSiemens per centimeter

pH Potential of Hydrogen

Page \_\_\_ of \_\_\_

## RAMBOLL

#### **Herrington Lake Surface Water Collection and Profiling Data Form**

	Sampling Region (e.g. Curds Inlet): DIX DAM  Herrington Lake Transect Location (e.g. CI-1):											
GDS Cool	dinatos						1 N.A.		1			
(or wher	e they can b	e found if co	ollected electi	ronic	ally): TRIM	13LE 41	LP(A		ł			
Investiga		FW	NC 1 /0	50 1	A C C (traCl) C )	12		3118	-			
				וטכו	405, 12920		Start Time:	ioam	1			
	libration Da				Weather at s		OF SUNN		ł			
	sk Depth (ir Observation		-4 FT		Stratification La	vers for Ref	erence:	190 200 FT	1			
ARC ON	RCONFIRMATION OBSERVATIONS  Epilimnion - Sunlight zone with higher DO Metalimnion (Thermocline) - water temp a											
NAAD	EWITH -											
-51.19	-SW Samples not taken & LNL2 Hypolimnion - Deep zone - lower stable DO and water temp.											
YSI / SW	- 1					Surface	Confirmation	Confirmation	W			
Sample	Oxygen :	Conduct- ivity	Water Temperature	рH	Stratification Layer	Water	A DU SW Sa	mple ID nen	n h			
Depth (feet bws	(DO in mg/L)	(mS/cm)	(Cor °F)		(if known)	Sample? (Y/N)	(mg/L) 6/18	(mgil) 6/19				
7 0	12.9	0.203	30. kD	9.11		N	12.92	14.33				
1 10	9.11	0.303	25,27	7.91		1	5,43	5.14				
1 15	NIA	NIA	MIA	NIA				0.41 1.4	4			
2 20	0.65	6.376		7.13				0.41				
30	0.60	0.279		7.08								
40	0.59	0.285	20.27	6.95								
50	1,43	0.202	16.70	6.81			0.77	0.50				
60	4.07	0.183	14.12	6.77			2.43	4.71				
70	4.39	0.186	1344	7.51								
80	5.18	D.186e		7.38								
90	16.23	0.180		7.26			C 3	<b>4</b> 1 40				
100	6.12	0.179	12.27	7.25			5.1	7.60				
120	6.03	0.177	12.12	7.16								
120	5.88	0.170	11.66	7.14 7.08								
7 140	5.33	0.162	11.26	7.08								
150	4.52	0.16		694								
1100	4.82	0.159	11.04	7.0								
190	338	0.161	10.75	6.92								
180	O. le le	0.166	10.33	6.75		4						
190	0.43	0.173	10.03	672		<u> </u>						
Notes:	0.49	0.170		6.83								

°C Degrees Celsius °F Degrees Fahrenheit

bws below water surface mg/L milligrams per liter

mS/cm milliSiemens per centimeter pH Potential of Hydrogen



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#### Herrington Lake Surface Water Collection and Profiling Data Form

	Sampling I	Inlet):	CHL3	Cove		Herrington L Location (e.g	.ake Trans g. CI-1):	sect CHL3 Cove			
	GPS Coord (or where		e found if c	ollected elect	ronic	ally): T	imbl	2 Yuma			
	Investigate	ors:	AJS, FI	N		Date: Fridan June 15th					
	Water Qua			105): 45I /	50.	6920 V2 Start Time: 01410					
	Probe Calil	bration Da		are 15th	,	Weather at start: 40f Sunny					
	Secchi Disl	k Depth (ir	1 feet): 3	<del>{</del> +		Water Depth	(surface	to bottom): 65 - 80ff			
	Notes or O	bservation	ns:		Stratification Layers for Reference: Epilimnion - Sunlight zone with higher DO and water temp. Metalimnion (Thermocline) - water temp and DO drops. Hypolimnion - Deep zone - lower stable DO and water temp.						
P0%	YSI / SW Sample Depth (feet bws)	Dissolved Oxygen (DO in mg/L)	Conduct- ivity (mS/cm)	Water Temperature (°C) or °F)	рН	Stratification Layer (if known)	Surface Water Sample? (Y/N)	SW Sample ID			
33.0	10	2.71	0.350	15,32c°	763		y	SW002(10)-LHL3-18045			
5.8	20	0.46	0464	23.12	7.24						
6.0	30	0.48	0.347	21.14	7.17						
6.2	40	0.50	0.307	19.12	696						
15.0	50	1.20	0,276	16.48	6.71						
37.8	60	3.02	0.268	14.32	6.56		5	SW001(80)-LH23-19065	6 1		
								*See verioble waterdes	th		
								vater sample taken at 8			

Notes:

°C °F Degrees Celsius Degrees Fahrenheit bws below water surface milligrams per liter mg/L

milliSiemens per centimeter mS/cm

Potential of Hydrogen pH Y/N

Yes or No



Page 🔔 of 上

#### **Herrington Lake Surface Water Collection and Profiling Data Form**

Sampling R	Region L	HL6 Ned	ar Marino	<b>'</b> 1	Herrington L Location (e.g	ake Trans	sect UHL6 Cove
GPS Coordi	nates				Location (e.	j. C1-1):	8
		e found if co	llected electi	ronica	ally): Tru	nble	Yuma
Investigato	ors:	AJS IF	W				Date: Jan K, 2018
Water Qua	lity Probe	(e.g. YSI 650 M	DS): 48I 6	50 M	105, 89ZE	V2	Start Time: 110
Probe Calib	ration Dat	te: Jaul	5,2018		Weather at s	tart: 80	if Sunny
Secchi Disk	Depth (in	feet): 3	Ft		Water Depth		
Notes or Ol	bservation	s:	u.	Stratification Layers for Reference: Epilimnion - Sunlight zone with higher DO and water temp. Metalimnion (Thermocline) - water temp and DO drops. Hypolimnion - Deep zone - lower stable DO and water temp.			
YSI / SW Sample Depth (feet bws)	Dissolved Oxygen (DO in mg/L)	Conduct- ivity (mS/cm)	Water Temperature (°C) or °F)	рН	Stratification Layer (if known)	Surface Water Sample? (Y/N)	SW Sample ID
0	19.62	0.211	28.52	9.39			
10	1,29	0.265	24.56	8,12		9	SW062(10)-LHL6-180617
15							
20	1.02	0.298	22.28	7.55			
30	1.00	0.294	21,10	7,48			
40	1,69	0.257	19.28	7.51			7
50	5.18	0.254	16.01	7,28		5	SW001(SO)-LHL6-180617
60	6,43	0.254	13.77	6.98			*
70	8.67	0.253	13.02	1,72			
80	9.44	0.254	12.65	6158			
90	10.49	0.253	12.28	6,42			
100	10.67	0.251	12.07	6.27		9	SW051(100)-LHL6-180617
110	10,85	0.246	11.77	6.06			
120	10.21	0,244		5.87			
/30	10.17	0.242	11.31	5.67			
140	8.76	0.247		5.28			
150	1,37	0.253	10,85	5,07			

Notes:

Degrees Celsius ٥C

٥F Degrees Fahrenheit bws

below water surface milligrams per liter mg/L

milliSiemens per centimeter mS/cm

pН Potential of Hydrogen

Yes or No Y/N

Page  $\perp$  of  $\perp$ 

#### **Herrington Lake Surface Water Collection and Profiling Data Form**

	Sampling R (e.g. Curds		HLLE			Herrington Lake Transect Location (e.g. CI-1): トナレル				
	GPS Coordi			W 3 - 3		" × Tr	1.10	E ( ) ( ) ( )	Ī	
	Investigate	1 1174		ollected elect	ronic	ally): /	imble	Date: / LUTIN		
			(e.g. YSI 650 M	INCL. MCT los	n Mn	Date: (2) 15/18 5-HD21BAU-10 Start Time: 1110				
			e: [6] [9] 2		LM	Weather at s		3°F Swuny	İ	
			feet): 38	- 10	`			to bottom): 33°F ~	160G	
	Notes or O	bservation	s:			Stratification La	yers for Ref	ference: Survey	1000	
	<b>₩</b> C(	ONFIRM UADE W	ATION OS	SSERVATION )	1S	Metalimnion (Th	ermocline)	with higher DO and water temp water temp and DO drops. lower stable DO and water		
)o'/.	YSI / SW Sample Depth (feet bws)	Dissolved Oxygen (DO in mg/L)	Conduct- ivity (mS/cm)	Water Temperature °C)or °F)	рН	Stratification Layer (if known)	Surface Water Sample? (Y/N)	SW Sample ID		
265.5	0	14.53	0.199	30.61	9.35					
15.6	10	1.35	0.249	24.65	7.98		¥	SW001.(10) - LHL6-18661	7	
5.3	15	0.56	0.257	23.10	7.88					
3.4	20	0.32	0.247	22.19	4.47					
3.1	30	0.29	0.238	21.49	7.64					
4.8	40	0,51	b. 215	19,94	7.69					
31.3	50	3.07	0.194	16.37	7.81		4	SW001 (SO)-LHL6-180617		
55.1	60	5.37	0.177	13.97	7.44					
56.5	70	5.83	0.175	13.20	7.40					
ا .3ما	80	6.50	0.175	12.89	7.40					
70.9	90	7.36	0.173	12.72	7.43					
78.0	100	8.29	0.173	12.54	7.44		Ŋ	SW02 (100) - LHL6-180617		
82.2	110	8.81	0.169		7.48					
52.2	120	8.79	0.167	12.10	7.48					
23.0	130	8.93	0.163	11.92	7.51					
81.5	140	8.77	0.161	11.77	7.50					
83.3	150	9.03	0.161		7.50					
73.9	160	8.09	0.160	11.48	7.48					
		,						0		
	Notes:					* WATER QUALITY UNIT (conf)				
	°F	Degrees Cels Degrees Fahi below water	renheit		DEPHH		De (mg/L)			
	mg/L mS/cm	milligrams pe milliSiemens	er liter per centimeter	r		10		3.49		
	•	Potential of F Yes or No	iydrogen			40		0.30		
					ı	50		0.63		

### **APPENDIX D: SAMPLE COLLECTION FIELD DATA SHEETS**

Appendix D4: Sediment and Sediment Pore Water Collection Data Sheets (Phase II)

Page  $\perp$  of  $\perp$ 

	Sampling				Curds=		Sampling Date: June 1914, 208				
	GPS Cool		or file le	ocation if collect		/):	Start Time (Boat Launched):				
	REH Inve	estigato	r(s):		Di		Weather	at Start:	Callen	1	
				vn: Steatowi	Main	0,51	sence	Group 8/1	Junny		
	Notes or	Observ	ations:	- hos	+ lin	Times pulled from covads Intelled in George - Diver Down for CITA, B					
		ı		- Spen	cn G	eorge	- DIV	es Nown	to CLIA)13	-	
	Sample Location/ Transect	Sample Time	Water Depth (in feet)	Local Bottom Substrate (Rocky, Silty, etc.,)	Field Dup or MS/MSD?	Jar #s and size collected	PW Peeper Deployed? (Y or N)	Sediment Sample ID	Location Notes		
5	CI 18	1230	10f4	clay sitt debris	No	Hora	5	None	only 50'		
	CIIA	j245	13A	- more locks	FD	None	y	4	MAX 13 Ft deep		
	CIB	1300	ilft	wad wad is	No	Non	ر ک	<b>μ</b>	max 16 Ft deep	-/5/	
)•	CF2.1	1330	18A	5:1ty mud 80/20	No	3x 40Z	7		Max 18 F t		
	CI 13	1340	ıπa	lı	No	3× 402	y	100 3			
٠	CIZ.I	1350		)1	120	402 402	DN	a company	- one extra Jar to ensure		
	mS/cm pH	below wa milligram milliSiem	Fahrenhei ater surfact as per liter aens per co of Hydrog	ce - entimeter				Deployment pocation Notes:	VOI WW		

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	Sampling GDS Coo				inds:		Start Time (1974)			
	GP3 C00	i dinate:	J( IV	ocation if collect	t max	/): 	Start IIII	& Sample	"location	
	REH Inve			NO: Dese	K Pro	offitt	Weather	at Start: ' 8f Sun	ny humid	
	Notes or	Observ	ations:	***					J	
	Sample Location/ Transect	Sample Time	Water Depth (in feet)	Local Bottom Substrate (Rocky, Silty, etc.,)	Field Dup or MS/MSD?	Jar #s and size collected	PW Peeper Deployed? (Y or N)	Sediment Sample ID	Location Notes	
(.	CLIV	1415	laft	rocky silty	No	3× U 02	y		max 1961 deep	
vel).	CIL.I B	1415		solso siit mud	No	3× 401	5			
(•	CISSI	1430	104	25 Cobble 25 Grows 50 51 H	FD	6 X 402	N		-field dup	
5	C-14 A						94		- Ne	
( )	CI 4 B									
Jaun									ì	
y Riwr -	bws mg/L mS/cm pH	Degrees Celsius Degrees Fahrenheit below water surface g/L milligrams per liter milliSiemens per centimeter DH Potential of Hydrogen						Deployment ocation Notes:		
						ħ.				

Page i\_ of \_\_

_	Sampling						Start Time (Boot Laurehod):				
ľ	GPS Cool	rdinate	S (or file I	ocation if collect	ted digitally LMA	/):	Start Time (Boat Launched): 830AM				
	REH Inve						Weather at Start: 80 f Sunn humid les already collected on CI4A,B				
	Notes or			vn: 5 haw	IN IVAI	11/	0	or sunh	2 1/2 1/2		
				Sedin	man o	1)	2-14	ready c	oneday on		
L				Ju	ne 1919	th a	CA 91	4 ) B			
	Sample Location/ Transect	Sample Time	Water Depth (in feet)	Local Bottom Substrate (Rocky, Silty, etc.,)	Field Dup or MS/MSD?	Jar #s and size collected	PW Peeper Deployed? (Y or N)	Sediment Sample ID	Location Notes	o	
•	CIYA	910	7264	6 then Cold Theet	No	other steet	y	other field shed	Peeper deployed on cord line a Trialway 72	1 F.F	
.,	CIUB	930	MA	7)	No	Ņ	S	11	0174		
	CI 4.2A	1030	34F1	79/29 Band/ Small Grav	N6	3× 402	5)		Q .		
, [	CL3.28	1045	17f4	rocky 106 kind For sed	Poeper Mrs/Wrsl	3 X 40Z	Ms/nasiD		- dive & 17R1 search of sediment to deploy peeps	rS	
• (	II C	930	1664	pepples pockata sfsilt	Sed Ms/Wa	9x 0402 +ex	Nabo	for volu	Ume		
,	£3.2C	1050	1062	NA	No	3 x 402	N	)			
	°F bws mg/L	below wa milligram	Fahrenhe ater surfac as per liter	it ce	Sediment Collection / Pore Water Deployment Configuration Sketch and/or Rellocation Notes:  _CIYA O TEH deep Silty  Ence deep Sediment  _CI 3.28 Peeper MS/MGD						
			of Hydrog			2 NR	ee deep 5 ed inect				
	Y/N Yes or No $-CI_3$ .						s Peepe	5 MS/M	5D		
				Į				45 HH			
								7941	- Where Sea	lipne,	
									au	al.	



Page  $\int$  of  $\int$ 

Sampling	g Regio	N (e.g. Cu	rds Inlet): C	wdg7	Enled	Sampling Date: June 20+1, 2018				
			ocation if collec			Start Time (Boat Launched):  Ar (194) CL 3.1 11 20 AM				
REH Inv	estigato	or(s):	AJ3			144 11 101 1				
Dive Cre	w; Dive	r(s) dov	vn: Oerek	Proffi	11		88f Su	mny humid h		
Notes or	Observ	ations:						0		
Sample Location/ Transect	Sample Time	Water Depth (in feet)	Local Bottom Substrate (Rocky, Silty, etc.,)	Field Dup or MS/MSD?	Jar #s and size collected	PW Peeper Deployed? (Y or N)	Sediment Sample ID	Location Notes		
CI 3.1A	1130	30ff	gilty muck	Peeper FD	3 x 402	y FD		- deep 50d ive		
eI3.1B	1140	174		No	3× 40Z	y				
C[3,10	1150	10ft	pephlos silt	No	3× 402	2				
CL3 A	1240	23H	50/50 savel 5:1+	2000	3x 402	y FD		- Seed 3A		
CI3B	1250	203 1AH	more Cochin	MP	34 402	S	-peapers	For Sed- gran		
CL3 C	1300	10ft	90/25/25 6 savel / Cobble/5iH	No	3× 40Z	N		JE		
Notes:	Degrees	Calcius					Deployment			
٥F	Degrees	Fahrenhei	t	Conngurati	on Sketch	ang/or Kello	ocation Notes:			
mg/L	milligram	iter surfac is per liter					2			
		ens per co								
	Yes or No									
			Ĺ							

### **APPENDIX D: SAMPLE COLLECTION FIELD DATA SHEETS**

Appendix D5: Aquatic Vegetation Field Data Sheets (Phase I)

STREAM NAME

#### WATER QUALITY AND VEGETATION FIELD DATA SHEET FOR HERRINGTON LAKE

STATION#R	IVERMILE STREAM CLASS \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
LAT CO LO	ONG GP RIVER BASIN HOW MG TON LOCA
STORET # AV	AGENCY
INVESTIGATORS	
FORM COMPLETED BY	DATE REASON FOR SURVEY
WEATHER CONDITIONS	Now Past 24 hours
SITE LOCATION/MAP	Draw a map of the site and indicate the areas sampled (or attach a photograph)
AV-00160+)-CI-1-	Sample collected along wadable wadeable shoreline. Reriphyton
STREAM CHARACTERIZATION Vegetation Sample Weight	Stream Subsystem WB Stream Type Coldwater Wannwater  Stream Ofigin Spring fed Non-glacial montane Mixture of origins Swarp and bog Other Wannwater Wannwater Wannwater Stream Ofigin Spring fed Wannwater Stream Ofigin Spring fed Wight 240.719

CI-1 (Pg/06Z)

### WATER QUALITY AND VEGETATION FIELD DATA SHEET

Lu .					
WATERSHED FEATURES A P	Field/Pa	ant Surrounding Land Commerce asture Industrial tural Other tital Adjacent E	cial l	Local Watershed NPS P  No evidence Some Obvious sources  Local Watershed Erosio None Moderate	potential sources
RIPARIAN VEGETATION (18 meter buffer)	Indicate to		record the dor	ninant species present Hert	baceous
INSTREAM FEATURES CYNAPS	Estimated Sampling Area in k Estimate Surface V (at thalw		m²m²km²m	Canopy Cover Partly open Partly  High Water Mark  Proportion of Reach Re Morphology Types Riffle % Pool %  Channelized Pses  Dam Present Yes	m presented by Stream Run%  □ No □ No
LARGE WOODY DEBRIS	LWD Density o	m²	Qual (+) 2/km² (LWD/ r	ative - LWD (	revalent
AQUATIC VEGETATION	Rooted	emergent g Algae Ro t species present	oted submerger ached Algae	minant species present it Creoted floating X  On Juchure  % (80% peril	of some
WATER QUALITY	Temperature ° C  Specific Conductance Dissolved Oxygen  pH Water Surface Oils   Globs   Fleck   Slick   Sheen   Globs   Fleck   Globs   Fleck   Globs   Glob				
SEDIMENT/ SUBSTRATE	l Sewage cal Anaerobic	□ Petroleum □ None te □ Profus	se yes No	h are not deeply embedded.	
INORGANIC SUB	STRATE ( add up to 1	COMPONENTS		ORGANIC SUBSTRATE C	
Substrate Diame		% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock		/ (	Detritus	sticks, wood, coarse plant materials (CPOM)	
Boulder > 256 mm (10" Cobble 64-256 mm (2. Gravel 2-64 mm (0.1".	5"-10")	V,	Muck-Mud	black, very fine organic (FPOM)	
Sand 0.06-2mm (grif Silt 0.004-0.06 mm Clay < 0.004 mm (s	ity)	₩T	Marl	grey, shell fragments	

CI-1 (Pg292)

## WATER QUALITY AND VEGETATION FIELD DATA SHEET FOR HERRINGTON LAKE

CAKE P	KG FOI	R HERRINGTON LAKE
STREAM NAME NE	2RINGTON .	LOCATION CI-2 Curds Indet
STATION#RI	VERMILE	STREAM CLASS
LAT See 675 LC	NG Ste G	RIVER BASIN
STORET#		AGENCY /cu. Ramboll Environ
INVESTIGATORS	KL., H.T	
FORM COMPLETED BY AJS / N	15	DATE AM PM REASON FOR SURVEY
WEATHER CONDITIONS	rain ( showers %c	Past 24 hours   Yes   Zho   C   ((heavy rain)   C   C   (steady rain)   C   C   (steady rain)   C   C   (out cover ear/sunny   C   (out cover ear/sunny   C   (out cover   C   (
SITE LOCATION/MAP	Draw a map of the sit	te and indicate the areas sampled (or attach a photograph)
CI-2	See C	
	1-1-11	(0.5-2.0)-CI2-171005 on 15 5 001-CI2-171005
-	Sample Shorel	collected along underble line at depths ~ 0-2 ft.
CHARACTERIZATION Vegetation Sample Weight	Stream Subsystem  Perennial Interpretation  Stream Origin Glacial Nor-glacial montane Syramp and bog	ermittent Tidal  Stream Type Goldwater Twamwater  Catchment Area km²  Mixture of origins Offier  Weight = 37.29

# WATER QUALITY AND VEGETATION FIELD DATA SHEET

(1	-1							
WATERSH FEATURES		G Forest	nant Surrounding Land Commer 'asture   Industria Itural   Other Intial   Commer	cial I	Local Watershed NPS F  No evidence Some Obvious sources  Local Watershed Erosic None Moderate	potential sources		
RIPARIAN VEGETATI (18 meter b	ION uffer)	Indicate the dominant type and record the dominant species present Grasses Grasses Gominant species present						
INSTREAM FEATURES SDEC M	AP	Estimate Samplin Area in l Estimate	cm² (m²x1000)  ed Stream Depth  Velocity	m m² km² m	Canopy Cover Partly open Partly High Water Mark Proportion of Reach Re Morphology Types Riftle 94 Pool 96 Channelized Yes Dam Present Yes	m presented by Stream		
LARGE WOODY DEBRIS  LWDm² Q VOLUT tufore LWD presentate  Density of LWDm²/km² (LWD/ reach area) Some flooting								
AQUATIC VEGETAT	ION	Indicate the dominant type and record the dominant species present   Rooted emergent						
WATER QUALITY Sel Work  Walliam  Wallia		Specific Dissolve pH Turbidi	ature0 C Conductance d Oxygen  ty trument Used		Water Odors   Normal/None   Sewage   Petroleum   Chemical     Fishy   Other     Water Surface Oils   Slick   Sheen   Globs   Flecks     Slick   Sheen   Globs   Turbid     Clear   Slightly turbid   Turbid     Opaque   Stained   Other			
SEDIMEN SUBSTRA		☐ Other	al Sewage ical Anaerobic  nt Slight Modera		Looking at stones which	□ Paper fiber □ Sand I Other h are not deeply embedded, k in color?		
INO	RGANIC SUB (should a	STRATE add up to 1	COMPONENTS		ORGANIC SUBSTRATE C (does not necessarily add			
Substrate Type	Diamet	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area		
Bedrock Boulder	> 256 mm (10"	)		Detritus	sticks, wood, coarse plant materials (CPOM)			
Cobble	64-256 mm (2.:		1/ /	Muck-Mud	black, very fine organic			
Gravel	2-64 mm (0.1"-2.5")				(FPOM)			
Sand	0.06-2mm (gritty)			Marl	grey, shell fragments			
Silt	0.004-0.06 mm	1	0/					
Clay	< 0.004 mm (sl	lick)	ME					

CI-2 (Pg2012)

### MIS

# -WATER QUALITY AND VEGETATION FIELD DATA SHEET FOR HERRINGTON LAKE

LAKE

STREAM NAME HER	nuleal	LOCATION	-	+ 1	11 0	1.101			
	VERMILE	STREAM CLA	ce	1 2	Cura	inia			
	ONG See GPS	RIVER BASIN							
STORET#	NO SEE (SI)			0		- 1			
		AGENCY	KU,	Ham	boll En	vilon			
INVESTIGATORS		num A II	1-20-1-7	777,000	1 50 5 CT 15				
FORM COMPLETED BY	U75	DATE TO SAM REASON FOR SURVEY							
HUS/	V( I)	18:15		<u></u>	117				
WEATHER	Now		Past 24	Has there l	ocn a heavy rain	in the last 7 days?			
CONDITIONS	☐ storm	(heavy rain)	hours 🗆		ratureºC				
1.1		steady rain) s (intermittent)	0		rature°C	1051			
	%D%c	loud cover ear/sunny	<b></b> %	Other					
	/ \		_						
SITE LOCATION/MAP	Draw a map of the sit	-	ie areas sam	pled (or attac	h a photograph)				
CI-3	See	Cap							
	11/00	Loc	(00	CI3-	17100	5			
	M N-001	(-0-10-	2.						
		IVIT:	>						
	Vegetati	on ID.							
1	Vegetali	)1-CI		710	05				
	AV-8)	)1-CJ	13-1	1+10					
	11000								
l U									
						1			
1	Sample at de wade	-/1-	at al	0000	c. 6/1901	place			
1.1	Sample	colle	culd	ucon	9 5100	-			
1	Al do	1/16	1 D-	- THY	hat "	sere			
	at de	SHIVE	Alley	811	50 hones	ced			
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Wade	able.	1010	119	1000	Tation.			
			Cl	guar	Crego	Tation.			
				U					
		A. 2							
STREAM CHARACTERIZATION	Stream Subsystem	MT)	lal	Stream Typ	e Davis				
Va al- lina		annuelle L 110	iai	Cotoh wate					
S. D. DE	Stream Origin  Glacial	Spring-fe	d Forlo	Catchment		km²			
- Working	☐ Non-glacial montane ☐ Swamp and bog	Other_	or origins	weigh	+ = 54,75	<sup>6</sup> ર			
weight				-					
	1.0								
1-3	(Page 10	17)							
	Charge 10	0-1							

### WATER QUALITY AND VEGETATION FIELD DATA SHEET

WATERSH FEATURE Sel		☐ Forest ☐ Field/P ☐ Agricu	ltural Other	cial l	Local Watershed NPS P  \[ \] No evidence \[ \] Some \[ \] Obvious sources  \[ \] Local Watershed Erosic \[ \] None \[ \] Moderate	potential sources			
RIPARIAN VEGETAT (18 meter b	ION uffer)	7.35.70	the dominant type and in the dominant type and in the shrip in the species present		ninant species present ☐ Grasses ☐ Her	baceous			
INSTREAM FEATURE SO C		Estimate Sampling Area in le Estimate	Reach Length						
LARGE W DEBRIS	ООДУ	LWD Density of	m² Quo	Utati Zkm² (LWD/1	each area)	esend at			
domina			odicate the dominant type and record the dominant species present I Rooted emergent Rooted submergent Rooted floating I Free floating Ominant species present Portion of the reach with aquatic vegetation 8						
SOLU QUI	WATER QUALITY  Specific Dissolv  pH  Turbid		water Odors    Petroleum   Chemical   Boundaries   Chemical   Chemical   Boundaries   Chemical   Chemical   Boundaries   Chemical   Chemical   Boundaries   Chemical   Chemical						
SEDIMEN SUBSTRA		Offors Norma	ical Anaerobic	□ Petroleum □ None	Deposits Sludge Sawdust Relict shells	☐ Paper fiber ☐ Sand Other ☐ Sand			
		Oils Absen	t 🗆 Slight 🗅 Moderat	e 🗅 Profu	are the undersides blac	k in color?			
INC		STRATE ( add up to 1	COMPONENTS 00%)	ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%)					
Substrate Type	Diame	ter	% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area			
Bedrock			/ (	Detritus	sticks, wood, coarse plant materials (CPOM)				
Boulder	> 256 mm (10 <sup>t</sup>	')			materials (of ON)				
Cobble	64-256 mm (2.		V (	Muck-Mud	black, very fine organic (FPOM)				
Gravel	2-64 mm (0.1"-2.5")								
Sand	0.06-2mm (gritty)		V/	Marl	grey, shell fragments				
Silt	0.004-0.06 mm				7				
Clay	< 0.004 mm (s	lick)			V				

# WATER QUALITY AND VEGETATION FIELD DATA SHEET FOR HERRINGTON LAKE

STREAM NAME ( 1	-4	LOCATION Herring ton Lake					
STATION#RI	VERMILE	STREAM CLASS CUVOS IN LEX					
LAT S& GPS LO	ong See GPS	RIVER BASIN					
STORET#		AGENCY					
INVESTIGATORS							
FORM COMPLETED BY		DATE 1015 TIME 1140 AM PM REASON FOR SURVEY					
		200200000000000000000000000000000000000					
WEATHER CONDITIONS	Now	Past 24 Has there been a heavy rain in the last 7 days?					
	☐ rain (s	(heavy rain) Air Temperature C C					
		oud cover Other					
	cle	ar/sunny					
SITE LOCATION/MAP	Draw a map of the site	e and indicate the areas sampled (or attach a photograph)					
2- 11	0 1						
C1-4	Dec (	HT I					
		1(0.52)-CI4-171005 100 1D- 01-CI4-171005					
	AV -00	160.92)					
	/(0 00	MT3					
	Van Ent	ing ID a					
	Vegetai	171005					
	AV/O	DI-CT4-1+100)					
	P(V OC	DI CI					
		1					
	0.0100	ollected by divers at mately 12 feet depth and depth (periphetton + attached submerger					
	Sampre C	to is cost do oth and					
	approx	Morely of the					
	2001	de alla ( Derighetton + arrache					
	2031	Submerger Submerger					
		maratic					
		Maetabien					
		Negetation					
		(SHV)					
STREAM—CHARACTERIZATION	Stream Subsystem  Q-Perennial Q-Inte	Stream Type  Geoldwater GWarmwater					
Was fation	Stream Origin	Catchment Area km²					
sample,	☐ Glacial ☐ Non-glacial montane	Spring-fed					
Welgha	☐ Swafnpland bog	Other Weight 65.89					
	,						
OT - 11	(Page 1	91 7\					
W-4	(rouge /	1) - U					

# WATER QUALITY AND VEGETATION FIELD DATA SHEET

CI						
WATERSE FEATURE Sec (		Predomi □ Forest □ Field/I □ Agricu □ Reside	Pasture Industria	rcial al	Local Watershed NPS F  No evidence Some Obvious sources  Local Watershed Erosic None Moderate	potential sources
RIPARIAN VEGETAT (18 meter b	ION ouffer)		the dominant type and Sh at species present		minant species present Grasses	baceous
INSTREAT FEATURE Sil	s o	Estimate Samplin Area in Estimate Surface (at thalv		m m² km² m	Canopy Cover Partly open Partly High Water Mark Proportion of Reach Re Morphology Types Riffle % Pool %  Channelized Yes  Dam Present Yes	m presented by Stream Run%
LARGE W DEBRIS	OODY	LWD Density	m² of LWDm	LWD/1 <sup>2</sup> /km² ( <b>LWD</b> /1	only in lim reach area)	hereline
AQUATIC VEGETAT		□ Roote □ Floatii	d emergent ng Algae At nt species present	ooted submerger tached Algae	minant species present nt Orogen thick now, Submerge	Mamento-
WATER QUALITY  SOLVEY  CHOCKET	Temper Specific Dissolve pH Turbidi	ature° C Conductance d Oxygen		Water Odors Officermal/None Sewa	ge Chemical Other	
SEDIMENT/ SUBSTRATE  Odors Normal Chemical Other Oils Absent Sewage Anaerobic Other				□ Petroleum □ None te □ Profu	are the undersides blac	Other hare not deeply embedded,
INC	ORGANIC SUB	STRATE	COMPONENTS		ORGANIC SUBSTRATE C	OMPONENTS up to 100%)
Substrate Type	Substrate Diameter		% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area
Bedrock Boulder	> 256 mm (10"	)	n What	Detritus	sticks, wood, coarse plant materials (CPOM)	
Cobble Gravel	64-256 mm (2.5 2-64 mm (0.1"-	5"-10")	KON CONT	Muck-Mud	black, very fine organic (FPOM)	
Sand Silt	0.06-2mm (grit 0.004-0.06 mm	ty)	18 Hole P	Marl	grey, shell fragments	
Clay	< 0.004 mm (sl	ick)				

CI-4 (Page 20/2)

## WATER QUALITY AND VEGETATION FIELD DATA SHEET FOR HERRINGTON LAKE

STREAM NAME CONTROL STATION#	X In let	STREAM CLASS HOLD LET
LAT_6D I	ONG 645	RIVER BASIN
STORET #		AGENCY
INVESTIGATORS		
FORM COMPLETED BY		DATE 10/6/17 REASON FOR SURVEY
WEATHER CONDITIONS	rain (	Past 24 hours   Yes   No   Yes   No   Yes   No   Yes   Yes
SITE LOCATION/MAP	Samp	e and indicate the areas sampled (or attach a photograph)  10 10 10 10 10 10 10 10 10 10 10 10 10 1
		ected by divers)  extend by divers)  ry fine periphyton attached to rocks
STREAM CHARACTERIZATION	Stream Subsystem	mittent Tidal  Stream Type Coldwater Warmwater  Catchment Area km² Mixture of origins Other  Weight (9)

Halnlet (Pg 1 of 2)

### WATER QUALITY AND VEGETATION FIELD DATA SHEET

WATERSH EATURES		Predomi	nant Surrounding Land		Local Watershed NPS Po			
EATURE	140	☐ Field/Pasture ☐ Industrial ☐ Other			☐ Obvious sources			
De C	Nops	Reside			Local Watershed Erosio	n		
RIPARIAN VEGETAT 18 meter b	ION uffer)	0.00	the dominant type and Shi It species present		minant species present Grasses GHert	paceous		
NSTREAM FEATURE	e 0 1		ed Reach Length		Canopy Cover Partly Open Partly High Water Mark			
Soe	CAP Nops	Area in	g Reach Area km² (m²x1000) ed Stream Depth	km²	Proportion of Reach Rep Morphology Types Riffle % I	oresented by Stream		
			Velocitym		Channelized  Yes  Dam Present  Yes	□ No		
DEBRIS II				レ <b>ル</b> D <sup>2</sup> /km² ( <b>LWD</b> / 1	in Inlet alou	g shoreliv		
VEGETATION ☐ Rooted ☐ Floating dominant			the dominant type and I emergent Repair Repa	tached Algae	/	Very Fine of Jackey		
WATER QUALITY  Spec Diss		Specific	ature° C Conductance d Oxygen		☐ Petroleum ☐ Fishy  Water Surface Oils	□ Pètroleum     □ Chemical     □ Fishy     □ Other  Water Surface Oils     □ Slick    □ Sheen   □ Globs   □ Flecks		
all all	respect	1	tytrument Used	Turbidity (if not measured) SClear Slightly turbid Turbid Opaque Stained Other				
SEDIMEN SUBSTRA		Odors Normal Sewage Petroleum Sludge Sawdust Paper fiber Sam Chemical Anaerobic None Relict shells Other						
		Oile	nt 🗅 Slight 🗅 Modera	te 🚨 Profu	are the undersides black	are not deeply embedded k in color?		
INC	DRGANIC SUB (should a	STRATE	COMPONENTS (00%)		ORGANIC SUBSTRATE CO	OMPONENTS up to 100%)		
Substrate Type	Diameter		% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area		
Bedrock				Detritus	sticks, wood, coarse plant materials (CPOM)			
Boulder	> 256 mm (10"			Muslc Mad	black, very fine organic			
Cobble	64-256 mm (2 2-64 mm (0.1"-			Muck-Mud	(FPOM)			
Gravel Sand	0.06-2mm (grit	_	_	Marl	grey, shell fragments			
Silt	0,004-0.06 mm			1	G7, ANG110			
	0.00T-0.00 IIII			4				

# WATER QUALITY AND VEGETATION FIELD DATA SHEET WIS FOR HERRINGTON LAKE

STREAM NAME LH	41	LOCATION Herri	naton Cake [HL-1			
A	VERMILE	STREAM CLASS N/2 KOCK RUNEM				
LAT COPS LO	ONG G	RIVER BASIN Her	rington Lake			
STORET# AU		AGENCY				
INVESTIGATORS						
FORM COMPLETED BY	Jade/MT	DATE 0/12/17 TIME 0/30 AM P	REASON FOR SURVEY			
WEATHER CONDITIONS	o rai	Past 24 hours n (heavy rain) u(steady rain) us (intermittent) cloud cover elear/sunny	Has there been a heavy rain in the last 7 days?  Yes No  Air Temperature CHIGH 69°F  Other			
SITE LOCATION/MAP	Draw a map of the	ite and indicate the areas sam	npled (or attach a photograph)  HU			
	Vegeto AV-	001-CFL UTDA 12 001-LHL	MTS 1-171012			
	This lo had Side Veger Colle	ation in a steep s with sub lation (all class by di	shelf on one shelf on one merged agentic gae & periphyton, vers.			
STREAM CHARACTERIZATION VEGETATION Sampic Welant	Stream Subsystem	otermittent   Fidal  Spring-fed  Mixture of origins  Other	Stream Type  Coldwater — Wermwater  Catchment Areakm²  WCiGN+ 96.59			

#### WATER QUALITY AND VEGETATION FIELD DATA SHEET

WATERSI FEATURE SEC	CAP	Predomi Forest Field/P Agricu Reside	Itural D Other	cial No evidence Some potential sources			
RIPARIAN VEGETAT (18 meter b	ION ouffer)		the dominant type and WSh t species present		minant species present Grasses OH	erbaceous	
INSTREAI FEATURE		y 1	d Reach Length		Canopy Cover ☐ Partly open ☐ Part High Water Mark		
See	e P	Area in l	km² (m²x1000) d Stream Depth Velocityn	m	High Water Markm  Proportion of Reach Represented by Stream km² Morphology Types Riffle % Run% m		
LARGE W DEBRIS	ARGE WOODY LWDm² Density of LWDm²				Qualitati reach area) PESENT	along shore	
AQUATIC VEGETAT	TION		the dominant type and demergent DR Algae Algae Algae of the reach with aqua	record the do poted submerge ttached Algae	minant species present at a Rooted floating be periphyto	☐ Free floating	
WATER QUALITY  See Will  Specific Conductance  Dissolved Oxygen  pH  Turbidity  WQ Instrument Used				Water Odors Normal/None   Sev   Petroleum   Fishy  Water Surface Oils   Slick   Sheen   None   Other   Torbidity (if not mease of the company	□ Globs □ Flecks		
SEDIMEN SUBSTRA		Odors Sovage Petroleum Sludge Sawdust Paper fiber Sand Relict shells Other					
		Olle	t □ Slight □ Modera	ate 🚨 Profu	Looking at stones wh are the undersides bla se Yes PNo	ich are not deeply embedded, ack in color?	
INORGANIC SUBSTRATE COMPONENTS (should add up to 100%)				ORGANIC SUBSTRATE (does not necessarily ad	COMPONENTS d up to 100%)		
Substrate Type	e Diameter		% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area	
Bedrock				Detritus	sticks, wood, coarse plant materials (CPOM)	Steep shelf,	
Boulder	> 256 mm (10"	)	0000		materials (Crowt)	little	
Cobble	64-256 mm (2.5	5"-10")	KOOSX	Muck-Mud	black, very fine organic (FPOM)	access to	
Gravel	2-64 mm (0.1"-	2.5")	VIO			sedment)	
Sand	0.06-2mm (grit	_	121/21	Marl	grey, shell fragments		
Silt	E O OO 4 O O C	5 mm					

## WATER QUALITY AND VEGETATION FIELD DATA SHEET WITS FOR HERRINGTON LAKE

STREAM NAME	L-2	LOCATION	LHL-	2 (Near Dam)
STATION # RI	VERMILE	STREAM CLAS	SS	
LATSUGPS LO	NG See 6.15	RIVER BASIN	Herr	minton Lake
STORET#		AGENCY		)
INVESTIGATORS				
FORM COMPLETED BY	~	DATE (O)	AM PM	REASON FOR SURVEY
WEATHER CONDITIONS	rain ( showers %c	(heavy rain) (steady rain) s (intermittent) loud cover ear/sunny	Past 24 hours	Has there been a heavy rain in the last 7 days?  No  Air Temperature 0 C High 69°F  Other
SITE LOCATION/MAP	Draw a map of the sit	e and indicate the	e areas samp	oled (or attach a photograph)
	AV-C		15 14-	171012
	Sample was co obtain Divers	e loca 1. flicu ~ vego 5 colle phejfor	fior lt t etate ecte from	near dam o access and on from wading. I attacked algae om depths > 10ft.
STREAM CHARACTERIZATION Vegetation Sumple Weight	Stream Subsystem	☐ Spring-fee	i	Stream Type Coldwater Warmwater  Catchment Area km²  Weight 50.29
LHL-2	(Pg lo	12)		

### WATER QUALITY AND VEGETATION FIELD DATA SHEET

WATERSHED FEATURES		Predominant Surrounding Landuse  Grorest Grownercial Field/Pasture Grounding Landuse Grownercial Grounding Landuse			□ No evidence □ Som	Local Watershed NPS Pollution  ☐ No evidence ☐ Some potential sources ☐ Obvious sources		
See C	AP	□ Forest □ Field/Pasture □ Agricultural □ Residential			Local Watershed Eros None Moderate			
RIPARIAN VEGETAT (18 meter b	TON ouffer)	274.56	the dominant type and	record the do rubs	minant species present Grasses Grasses	erbaceous		
instread Feature Sol Mo		Estimate Sampling Area in l Estimate	d Reach Length  d Stream Width  g Reach Area  cm² (m²x1000)  d Stream Depth  Velocity  meg)	m m² km² m	Canopy Cover			
LARGE W DEBRIS	OODY	LWD Density	m² of LWDm	<sup>2</sup> /km <sup>2</sup> ( <b>LWD</b> / 1	reach area)			
AQUATIC VEGETAT		□ Rooted □ Floatin dominan	emergent ORo	tached Algae	minant species present  It Rooted floating  Hon 4 attached	Prec floating 194 I algae 7 of		
SOL W Qual Sheet Logi	oder Ly St 0004	Specific Dissolve pH Turbidit	ature° C Conductance d Oxygen y trument Used		Water Odors  Normal/None Sew Petroleum Fishy  Water Surface Oils Slick Sheen None Other Turbidity (if not meas Delear Slightly to	Chemical Other Globs Flecks		
SEDIMEN SUBSTRA		Odors Odors Chemi Other Oils Absen	cal Anaerobic	□ Petroleum □ None te □ Profu	Deposits  Sludge Sawdust Relict shells  Looking at stones whi	☐ Paper fiber ☐ Sand☐ Other		
INC		STRATE (	COMPONENTS 00%)		ORGANIC SUBSTRATE (does not necessarily ad			
Substrate Type			% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area		
Bedrock Boulder	> 256 mm (10"	6 mm (10")		Detritus	sticks, wood, coarse plant materials (CPOM)	at dom along		
Cobble		64-256 mm (2.5"-10")		Muck-Mud	black, very fine organic (FPOM)	Morenne		
Gravel Sand Silt	0.06-2mm (grit	ity)		Marl	grey, shell fragments			
olli	0.004-0.06 mm < 0.004 mm (slick)			1				

LHL-2(B292)

# WATER QUALITY AND VEGETATION FIELD DATA SHEET FOR HERRINGTON LAKE

STREAM NAME LITTLE	5	LOCATION LHL-3
STATION #RI	VERMILE	STREAM CLASS
LAT SEE GPS LO	NG SerG15	RIVER BASIN ACTIONATION Calle
STORET#		AGENCY
INVESTIGATORS		
FORM COMPLETED BY		DATE 10/12 REASON FOR SURVEY
MISon		TIME AM PM CAP
WEATHER CONDITIONS	Now	Past 24 Has there been a heavy rain in the last 7 days?
CONDITIONS		(heavy rain)
	shower	s (intermittent)
		loud cover
SITE LOCATION/MAP	Draw a man of the cit	e and indicate the areas sampled (or attach a photograph)
SILE LOCATION/MAP		e and indicate the areas sampled (or attach a photograph)
On Cho	July 1	17 1017
See CATE	A11-00	01 - LHL3 - 17101Z
LHL-3	/(0	
1/4		
177		
}	0 0	collected by waders along line: Depth -0-2ft.
	Samole	collected by
	Chara C	Man Deoth - U-2+1.
	Shore	we of
STREAM	Stream Subsystem	MVS Stream Type MVS
CHARACTERIZATION	☐ Perennial ☐ Int	
Sample	Stream Ørigin	Catchment Areakm²  Catchment Areakm²  Mixiture of origins
Weigh	Glasial Non-glacial montand Swamp and bog	Mixitine of origins Welch 28.7 a
	27-1-1-1-1	100 19 20119
20	1 2	
B, 1 H1	-3 (Pg	1012)
y -110	~ (1g	

Source: Rapid Bioassessment Protocols For Use in Streams and Wadeable Rivers: Periphyton, Benthic Macroinvertebrates, and Fish, Second Edition - Form 1

#### -WATER QUALITY AND VEGETATION FIELD DATA SHEET

WATERSI FEATURE Sue	s	Predomi Forest Field/I Agricu Reside	Pasture Industria	rcial No evidence Some potential sources				
RIPARIAN VEGETAT (18 meter l	N FION ouffer)	1000 240	the dominant type and Sh nt species present		minant species present Grasses Her	baceous		
INSTREAL FEATURE Sul ( Ma		Estimate Samplin Area in l Estimate Surface	timated Reach Lengthm Canopy Cover timated Stream Widthm High Water Markm High Water Markm Proportion of Reach Represented by Stream Morphology TypesRiffle% Run% timated Stream Depthm ChannelizedYesNo thalweg)					
LARGE W DEBRIS	OODY		m² / of LWDn	1/1/1/e 1 <sup>2</sup> /km² ( <b>LWD</b> /		line		
AQUATIC VEGETA1		□ Roote □ Floatii dominai	d emergent Q Ro	ooted submerge tached Algae	rattocked a	a lang v		
Sel Water  Reality  Specific C  Dissolved  pH  Turbidity			ature0 C Conductance d Oxygen ty trument Used		Water Odors Normal/None   Sewa,   Petroleum	Chemical Other Globs □ Flecks		
SEDIMENT/ SUBSTRATE		Oils	al Sewage ical Anaerobic  at Slight Modera		Looking at stones which	☐ Paper fiber ☐ Sand Other I are not deeply embedded, k in color?		
INC		STRATE (	COMPONENTS 00%)		ORGANIC SUBSTRATE C			
Substrate Type	Diameter		% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area		
Bedrock				Detritus	sticks, wood, coarse plant materials (CPOM)			
Boulder	> 256 mm (10")				materials (CFOWL)			
Cobble	64-256 mm (2.5"-10")			Muck-Mud	black, very fine organic (FPOM)	110		
Gravel	2-64 mm (0.1"-:							
	0.06-2mm (gritt	mm (gritty)		Marl	grey, shell fragments			
Sand Silt	0,004-0.06 mm							

## WATER QUALITY AND VEGETATION FIELD DATA SHEET FOR HERRINGTON LAKE

STREAM NAME	11-4	LOCATION (HL-U			
STATION#R	VERMILE	STREAM CLASS			
LAT LO	NG	RIVER BASIN HOVING ON Lake			
STORET#		AGENCY			
INVESTIGATORS					
FORM COMPLETED BY		DATE TIME AM PM REASON FOR SURVEY			
WEATHER CONDITIONS	shower %c	Past 24 hours			
SITE LOCATION/MAP	Draw a map of the si	te and indicate the areas sampled (or attach a photograph)			
COO CAP	Samo	De 10			
July 1	1	17117			
LHL-4	1 AV - 8	AV-001-LAL3-171012			
	/ \	ted by divers			
1	(Collect	ted by aivers)			
	( 30				
1					
STREAM-	Stream Subsystem	MIS Stream Type			
CHARACTERIZATION	Stream Subsystem	Stream Type Coldwater Warmwater			
Sample	Stream Origin	Catchment Areakm²			
Weight	☐ Non-glacial montan ☐ Swamp and bog	e Mixture of origins Weight >50g			
	- onlying and oug				

Local Watershed NPS Pollution
☐ No evidence ☐ Some potential sources
☐ Obvious sources WATERSHED Predominant Surrounding Landuse ☐ Forest☐ Field/Pasture ☐ Commercial ☐ Industrial ☐ Agricultural ☐ Residential **Local Watershed Erosion** None ☐ Moderate Indicate the dominant type and record the dominant species present RIPARIAN VEGETATION ☐ Herbaceous (18 meter buffer) dominant species present Canopy Cover
☐ Partly open ☐ Partly shaded ☐ Shaded INSTREAM FEATURES Estimated Reach Length Estimated Stream Width High Water Mark Sampling Reach Area m<sup>2</sup> Proportion of Reach Represented by Stream Area in km<sup>2</sup> (m<sup>2</sup>x1000) km<sup>2</sup> Morphology Types
☐ Riffle
☐ Pool \_\_\_\_\_\_% □ Run **Estimated Stream Depth** Channelized □ Yes □ No Surface Velocity m/sec (at thalweg) Dam Present ☐ Yes □ No LARGE WOODY DEBRIS LWD  $m^2$ Density of LWD m2/km2 (LWD/ reach area) Indicate the dominant type and record the dominant species present

☐ Rooted emergent
☐ Floating Algae
☐ Altached Algae
☐ Rooted submergent
☐ Rooted floating AQUATIC VEGETATION ☐ Free floating ☐ Rooted emergent ☐ Floating Algae dominant species present Portion of the reach with aquatic vegetation Water Odors

Normal/None Sewage

Petroleum Chemical
Other Temperature Specific Conductance\_ Dissolved Oxygen Water Surface Oils
☐ Slick ☐ Sheen
☐ None ☐ Other\_ Slick None ☐ Globs ☐ Flecks Turbidity \_\_\_ Turbidity (if not measured)
Clear Slightly turbid
Opaque Stained ☐ Turbid WQ Instrument Used SEDIMENT/ SUBSTRATE Deposits
□ Sludge □ Sawdust □ H
□ Relict shells □ Other Offers D Normal O Chemical ☐ Paper fiber ☐ Sewage ☐ Anaerobic ☐ Petroleum None Other Looking at stones which are not deeply embedded, are the undersides black in color? Moderate ☐ Slight ☐ Moderate □ Profuse INORGANIC SUBSTRATE COMPONENTS (should add up to 100%) ORGANIC SUBSTRATE COMPONENTS (does not necessarily add up to 100%) % Composition in Sampling Area % Composition in Sampling Reach Characteristic Substrate Substrate Diameter Type Type sticks, wood, coarse plant materials (CPOM) Detritus Bedrock Boulder > 256 mm (10") Muck-Mud black, very fine organic (FPOM) Cobble 64-256 mm (2.5"-10") Gravel 2-64 mm (0.1"-2.5") Marl grey, shell fragments Sand 0.06-2mm (gritty) Silt 0.004-0.06 mm Clay < 0.004 mm (slick)

Mage 2012)

## WATER QUALITY AND VEGETATION FIELD DATA SHEET FOR HERRINGTON LAKE

STREAM   STREAM NAME LHLS		LOCATION Herrington Lake					
STREAM CHARACTERIZATION STREAM CHARACTERIZATION STORER # A		STREAM CLA	- A	1 10 10 10			
STREAM CHARACTERIZATION STREAM CHARACTERIZATION STORE # A GENCY  DATE GO T T T REASON FOR SURVEY  TIME	LAT (3PS LO	RIVER BASIN	Herr	100			
TIME OF THE OF T	STORET# //		AGENCY	- (			
WEATHER CONDITIONS  Now storm (heavy rain) hours Alex UNO Alex UNO Stream Subsystem CHARACTERIZATION  STREAM CHARACTERIZA	INVESTIGATORS						
WEATHER CONDITIONS    Now   Storm (heavy rain)   St	FORM COMPLETED BY		DATE 1012	17			
STREAM CHARACTERIZATION CHARACTERIZATION STREAM CHARACTERIZATION CHARACT	WITSorens	l-	TIME NO. 5	AWI FIV	CAP		
STREAM CHARACTERIZATION  STREAM CHARACTERIZATI	WEATHER CONDITIONS		(heavy rain)	hours			
STREAM CHARACTERIZATION Stream Subsystem WT S CHARACTERIZATION Stream Origin Glacial Mixture of origins Swamp and bog Other Well Well W. 7 9		rain ( shower	(steady rain) s (intermittent) loud cover	- 1tt.	Seath real		
STREAM CHARACTERIZATION  Stream Subsystem	SECAP	Samp AV-OC	elD 21-LH	125	-171012		
Stream Origin Glacial Non-glacial montane Swamp and bog    Spring-fed   Mixture of origins   Other   Welg W 40.79	LHZ-5	(Colle	ected	byc	ivers)		
Stream Origin Glacial Non-glacial montane Swamp and bog    Spring-fed   Mixture of origins   Other   Welg W 40.79							
Stream Origin Glacial Non-glacial montane Swamp and bog    Spring-fed   Mixture of origins   Other   Welg W 40.79							
Stream Origin Glacial Non-glacial montane Swamp and bog    Spring-fed   Mixture of origins   Other   Welg W 40.79							
Stream Origin Glacial Non-glacial montane Swamp and bog    Spring-fed   Mixture of origins   Other   Welg W 40.79							
Stream Origin Glacial Non-glacial montane Swamp and bog    Spring-fed   Mixture of origins   Other   Welg W 40.79							
Stream Origin Glacial Non-glacial montane Swamp and bog    Spring-fed   Mixture of origins   Other   Welg W 40.79							
Stream Origin Glacial Non-glacial montane Swamp and bog    Spring-fed   Mixture of origins   Other   Welg W 40.79							
Stream Origin Glacial Non-glacial montane Swamp and bog    Spring-fed   Mixture of origins   Other   Welg W 40.79							
Stream Origin Glacial Non-glacial montane Swamp and bog    Spring-fed   Mixture of origins   Other   Welg W 40.79			MATE				
Non-glacial montane Mixture of origins Welght 40.79	STREAM CHARACTERIZATION	Stream Subsystem  O Perennial O Int	ermittent Tid	al.	Stream Type  Goldwater  Warmwater		
(a)		Stream Origin	□ Spring-fe	d	Catchment Areakm²		
1415 (821827)		Non-glacial montand Swamp and bog	Mixture of Other_	of origins	Weight 40.79		
	, 11, 7	= 10, 10	927		. 0		

Source: Rapid Bioassessment Protocols For Use in Streams and Wadeable Rivers: Periphyton, Benthic Macroinvertebrates, and Fish, Second Edition - Form 1

4465

WATERSE FEATURE Sel		□ Forest	Pasture Industria	rcial	Local Watershed NPS P  No evidence Some Obvious sources  Local Watershed Erosic None Moderate	potential sources		
RIPARIAN VEGETAT (18 meter b			the dominant type and Sh at species present		minant species present Grasses Grasses	baceous		
INSTREAT FEATURE See		Estimate Samplin Area in Estimate	ed Reach Length ed Stream Width g Reach Area km² (m²x1000) ed Stream Depth Velocity meg)	m _m² _km² _m	Canopy Cover Partly open Partly High Water Mark Proportion of Reach Re Morphology Types Riffle Pool Ves Channelized Yes Dam Present Yes	m presented by Stream Run%		
LARGE W DEBRIS	OODY	II.	m² of LWD	1²/km² <b>(LWD</b> / 1	reach area)			
	AQUATIC VEGETATION  Indicate the dominant type and record the dominant species present Rooted emergent Rooted submergent Rooted floating Algae dominant species present T53 Submerged algae + 257 Portion of the reach with aquatic vegetation % Plv pnyton							
Sea Control	er ty	Specific Dissolve pH Turbidi	ature0 C Conductance ed Oxygen ty trument Used		Water Odors De Normal/None   Sewa, Petroleum	Chemical Other Globs □ Flecks		
SEDIMENT/ SUBSTRATE  Odors  Normal Chemical Other Oils Absent Slight Moderate  Odors Petroleum Sewage Petroleum None Other Chemical Other Oils None Oils Non						Other		
INC	ORGANIC SUE	STRATE add up to 1	COMPONENTS		ORGANIC SUBSTRATE C (does not necessarily add	OMPONENTS up to 100%)		
Substrate Type			% Composition in Sampling Reach	Substrate Type	Characteristic	% Composition in Sampling Area		
Bedrock				Detritus	sticks, wood, coarse plant materials (CPOM)			
Boulder				N				
Cobble				Muck-Mud	black, very fine organic (FPOM)			
	Gravel 2-64 mm (0.1"-2.5")			Most	grav shall framewarts			
Sand 0.06-2mm (gritty)				Marl	grey, shell fragments			
Silt	0.004-0.06 mm			1				
Clay	< 0.004 mm (s	nck)						

LHL-5(Pg292)

# WATER QUALITY AND VEGETATION FIELD DATA SHEET FOR HERRINGTON LAKE

		LOCATION  STREAM CLASS  RIVER BASIN  AGENCY  DATE DATE DATE AM PM REASON FOR SURVEY TIME A COLOR				
WEATHER CONDITIONS	□ rain □ showe%□ %6	n (heavy rain) (steady rain) rs (intermittent) cloud cover lear/sunny	Past 24 hours	Has there been a heavy rain in the last 7 days?  O Yes O No  Air Temperature C  Other		
See CAP LHL-5	C MA	OP I		led (or attach a photograph)  - 17/10/12  Livers		
STREAM CHARACTERIZATION	Stream Subsystem  Perennial Inter- Stream Origin  Glacial  Non-glacial montane  Swamp and bog		(	Stream Type Coldwater BWannwater Catchment Areakm²  WUMJ 32.55		
LHL-6	(Page	1072	)	<del></del>		

Source: Rapid Bioassessment Protocols For Use in Streams and Wadeable Rivers: Periphyton, Benthic Macroinvertebrates, and Fish, Second Edition - Form 1

LHL-6

RIPARIAN VEGETATION (18 meter buffer)    Indicate the dominant type and record the dominant species present   Herbaccous   Herbaccous   Herbaccous   Classes   Shrubs   Classes   Herbaccous   Herbaccous    rial No evidence Some potential Obvious sources  Local Watershed Erosion	cial □ No evidence □ Some potential sources □ Obvious sources  Local Watershed Erosion								
Estimated Stream Widthm				A CONTRACTOR	ION	VEGETATI			
AQUATIC VEGETATION  Indicate the dominant type and record the dominant species present   Rooted loating   Ro	m High Water Mark  m² Proportion of Reach Represe Morphology Types DRITTLE W DRUM  m Pool Yes Drives	m m² km² m	INSTREAM FEATURES  Estimated Reach Length Estimated Stream Width Sampling Reach Area Area in km² (m²x1000) Estimated Stream Depth Surface Velocity						
WATER QUALITY  Temperature									
Specific Conductance	Attached Algae Deviphytonralgae - à	ached Algae Wiphyt	dominant species present						
SUBSTRATE    Chemical    Normal/None Sewage Petroleum Chem Fishy Other  Water Surface Oils Slick Sheen Globs None Other  Turbidity (if not measured) Glear Slightly turbid		Specific Conductance Dissolved Oxygen pH Turbidity							
Substrate Type   Diameter   % Composition in Sampling Reach   Detritus   Sticks, wood, coarse plant materials (CPOM)   Materials (CPOM)   Sampling Reach   Characteristic   % Composition in Sampling Reach   Detritus   Sticks, wood, coarse plant materials (CPOM)   Composition in Sampling Reach   Detritus   Sticks, wood, coarse plant materials (CPOM)   Composition in Sampling Reach   Detritus   Sticks, wood, coarse plant materials (CPOM)   Composition in Sampling Reach   Detritus   Sticks, wood, coarse plant materials (CPOM)   Composition in Sampling Reach   Detritus   Sticks, wood, coarse plant materials (CPOM)   Composition in Sampling Reach   Detritus   Sticks, wood, coarse plant materials (CPOM)   Composition in Sampling Reach   Detritus   Sticks, wood, coarse plant materials (CPOM)   Composition in Sampling Reach   Detritus   Sticks, wood, coarse plant materials (CPOM)   Composition in Sampling Reach   Detritus   Sticks, wood, coarse plant materials (CPOM)   Composition in Sampling Reach   Detritus   Sticks, wood, coarse plant materials (CPOM)   Composition in Sampling Reach   Detritus   Sticks, wood, coarse plant materials (CPOM)   Composition in Sampling Reach   Detritus   Sticks, wood, coarse plant materials (CPOM)   Composition in Sampling Reach   Detritus   Sticks, wood, coarse plant materials (CPOM)   Composition in Sampling Reach   CPOM   CP	□ Petroleum □ None □ Relict shells □ Other  Looking at stones which are are the undersides black in c	SUBSTRATE  SUBSTRATE  Sewage Petroleum Sku Chemical Anaerobic None  Colle							
Type Sampling Reach Type Sampling  Bedrock Detritus sticks, wood, coarse plant materials (CPOM)			COMPONENTS 00%)	STRATE C	ORGANIC SUB (should :	INO			
materials (CPOM)									
	Detritus sticks, wood, coarse plant	Detritus				Bedrock			
				mm (10")		Boulder			
Cobble 64-256 mm (2.5"-10") Muck-Mud black, very fine organic (FPOM)	Muck-Mud black, very fine organic	Muck-Mud black, very fine organic		e 64-256 mm (2.5"-10")		Cobble			
Gravel 2-64 mm (0.1"-2.5")	W.Siny	4	Gravel 2-64 mm (0.1"-2.5")						
Sand 0.06-2mm (gritty) Marl grey, shell fragments	Marl grey, shell fragments	Marl							
Silt 0.004-0.06 mm			Silt 0.004-0.06 mm						
Clay < 0.004 mm (slick)			Clay < 0.004 mm (slick)						

WATER QUALITY AND VEGETATION FIELD DATA SHEET FOR HERRINGTON LAKE

Dix	Kiver		1	, MIS		
STREAM NAME	=2 MB	LOCATION	LUX	15 total Dix River		
STATION # RI	VERMILE	STREAM CLAS	ss NA			
LAT (S) LC	NG 675	RIVER BASIN	Herri	ington Lake - Downstran		
STORET #		AGENCY		from dam		
INVESTIGATORS						
FORM COMPLETED BY NATOUR	S/r	DATE (O)	417 AM PM	REASON FOR SURVEY		
WEATHER CONDITIONS	rain (s showers %cl	(heavy rain) steady rain) s (intermittent) loud cover ear/sunny	Past 24 hours	Has there been a heavy rain in the last 7 days?  O Yes ONO  Air Temperature 0 C OS		
SITE LOCATION/MAP	Draw a map of the site	e and indicate the	e areas samp	led (or attach a photograph)		
Dex River	Samp AV-OX	Q <sub>0</sub>	colk	71007 ected Com		
STREAM	Stream Subsystem			Stream Type		
CHARACTERIZATION	Perennial UInte	rmittent 🖵 Tida	al	□ Coldwater □ Warmwater		
	Stream Origin  Glacial  Non-glacial montane Swamp and bog	Spring-fee	l forigins	Catchment Areakm² Weight 51.39		
Drx River (Pg 10 2)						

REPAILIN (18 meter buffer)    Description of the reach with a quatic vegetation   Mater Others	WATERSI FEATURE SU				rial No evidence Some potential sources						
Festimated Stream Width							baceous				
AQUATIC VEGETATION  Indicate the dominant type and record the dominant species present   Rooted floating   Pree floating   Pree floating   Rooted submergent   Rooted floating   Pree floating   Pree floating   Rooted floating   Pree floating   Pree floating   Rooted floating   Pree floating	INSTREAM Estima Features Sele Sampli Area in Estima Surface		Estimat Samplin Area in Estimat Surface	ed Stream Width  g Reach Area  km² (m²x1000)  ed Stream Depth  Velocity	m m² km² m	Partly open Partly High Water Mark Proportion of Reach Re Morphology Types Riffle % Pool Yes Channelized Yes	m presented by Stream Run% □ No				
WATER QUALITY  WATER QUALITY  Specific Conductance Dissolved Oxygen PH Turbidity WQ Instrument Used  SEDIMENT/ SUBSTRATE  Oldors	LARGE W DEBRIS	OODY			n²/km² (LWD/	reach area)					
Specific Conductance   Petroleum   Fishy   Other	VEGETATION Rooted emergent Roo				poted submerge ttached Algae	ton - loo 7	Free floating				
SUBSTRATE    One	See water by		Specific Conductance Dissolved Oxygen pH Turbidity			Water Surface Oils Slick Sheen Sloope Other	Chemical Other Globs □ Flecks				
Substrate   Diameter   % Composition in Sampling Reach   Substrate Type   Detritus   Sticks, wood, coarse plant materials (CPOM)   Substrate   Characteristic   % Composition in Sampling Area   Detritus   Sticks, wood, coarse plant materials (CPOM)   Cobble   64-256 mm (2.5"-10")   Muck-Mud   black, very fine organic (FPOM)   Sand   0.06-2mm (gritty)   Marl   grey, shell fragments   Gre	SUBSTRATE Normal Sewag		ical Anaerobic	□ None	☐ Sludge ☐ Sawdust ☐ Relict shells ☐ Looking at stones which are the undersides black	are not deeply embedded,					
Type Sampling Reach Type Sampling Area  Bedrock Detritus Sticks, wood, coarse plant materials (CPOM)  Cobble 64-256 mm (2.5"-10") Muck-Mud black, very fine organic (FPOM)  Gravel 2-64 mm (0.1"-2.5")  Sand 0.06-2mm (gritty) Marl grey, shell fragments  Silt 0.004-0.06 mm	INC										
Boulder   > 256 mm (10")		Diamet				Characteristic	% Composition in Sampling Area				
Boulder   > 256 mm (10")   Muck-Mud   black, very fine organic (FPOM)	-				Detritus	sticks, wood, coarse plant materials (CPOM)					
Gravel         2-64 mm (0.1"-2.5")         (FPOM)           Sand         0.06-2mm (gritty)         Marl         grey, shell fragments           Silt         0.004-0.06 mm         grey, shell fragments	-					Carried State					
Sand 0.06-2mm (gritty) Marl grey, shell fragments Silt 0.004-0.06 mm					Muck-Mud	black, very fine organic (FPOM)					
Silt 0.004-0.06 mm				3	26.1	1.110					
	-	(0 )		4	Mari	grey, snell tragments					
Clay V.004 mm (slick)	_			1							
D. O. O. (0. 202)	Clay										

## **APPENDIX D: SAMPLE COLLECTION FIELD DATA SHEETS**

Appendix D6: Aquatic Invertebrates Field Data Sheets (Phase I)

Page \_\_\_\_ of \_\_\_

	LIEDDINGTON LAKE TE	ANGEGER	DI TIME ENTO I CITANI
	HERRINGTON LAKE TR	ANSECT ID CI-1	/
	DATE	TIME //2 /	Ø Grab sample
ш	DAIL 0 of 4, 2017	11WE //30	O Hester Dendy
SITE	FORM COMPLETED BY	16.00	Sample Volume: NA
၂ ဟ		AJS MTSofense	5.34 8 Weight
	OTHER:	, , , , , , , , , , , , , , , , , , ,	Depuration Time
	Sample D A1-C	01-C1-171004	24hrs
		A	,,,,,
~	Present conditions (check		
WEATHER	O Heavy Rain	Inches of rain in last 24 h	Hours (
王	O Overcast	F NO	
<b>\</b>	O Steady Rain		
	O Partly Cloudy O Intermittent Rain	Other:	
>	O Clear/Sunny		
-	Check all that apply		
	FLOW	WATER CLARITY	WATER COLOR
	O Dry	O / Clear/Transparent	O None
	O Stagnant/Still	O Cloudy/Slightly Turbid 、	O Brown/Muddy
	O Low	O Opaque/Very Turbid	O Green
m	<b>ઉ</b> ∕ Normal	-	O Milky/VVhite
Ž	O High	of Other: With the	O Tannic/Black
₽	O Flood over banks	Jo . Wy C .	່ Of Other:
OBSERVATIONS			Slightly Turbid
≳	0.01	WATER SURFACE	at outfall mixing
Ü	O Clear/Sunny	a whon disturbed	
BS	O Oily sheen that break	not break when disturbed	
ō	Some foam ( Very limit	Color Pale Yel	low
	O More than 3" foam	Color	en .
	- more trainer ream	WATER ODOR	
	Natural/None	O Gasoline	O Other
	O Fishy	O Chlorine	
	O Sewage	O Sulfur	
		RK THESE TAXA AS X, R, C	
l ທ		found, R (rare)=1-9, C (comm	
<u>Ğ</u>	The second secon	(dominant)=100 individuals o	
	Stonefly Nymphs	Net Spinning Caddisflies	
l ∝	Mayfly Nymphs	Dobsonfly/Helgrammite	Black Fly Larvae
O	Water Penny Larvae Riffle Beetles	Crowfish Damselfly	C Lunged Snails
\$	Rille beetles	Crayfish	Aquatic Worms
	Aquatia China Elica		
3	Aquatic Snipe Flies	Crane Flies	R Leeches
TAXA GROUPS	(Laddisflies	Aquatic Sow Bugs Sa	mpleweight
TA)			

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	HERRINGTON LAKE TR	RAN	SECTID CI-2	
ш	DATE 10-05-17		TIME	O Grab sample O Hester Dendy
SITE	FORM COMPLETED BY	SV	n	Sample Volume:
	OTHER:			Depuration Time
			201-012-171005	24 hrs
~	Present conditions (check			
WEATHER	O Heavy Rain O Overcast		Inches of rain in last 24 H	
ΙĖ	O Steady Rain		<b>/</b>	0
🕁	O Partly Cloudy		Other:	
I₹	O Intermittent Rain			
	○ Clear/Sunny			
	Check all that apply  FLOW		WATER CLARITY	WATER COLOR
	O Dry	Ø	Clear/Transparent	None None
	O Stagnant/Still	Õ	Cloudy/Slightly Turbid	O Brown/Muddy
	O Low	0	Opaque/Very Turbid	O Green
တ	O Normal	0	Other:	O Milky/White
Z	O High			O Tannic/Black
	O Flood over banks			O Other:
OBSERVATIONS			WATER SURFACE	i A
	O Clear/Sunny			
<u> </u>	O Oily sheen that break			
Ö	O Oily sheen that does in Some foam	not t	Color	
	O More than 3" foam		Color	
	O Wore than 5 loan		WATER ODOR	
	Ø Natural/None	0	Gasoline	O Other
	O Fishy	0	Chlorine	50
	O Sewage	0	Sulfur	
			THESE TAXA AS X, R, C nd, R (rare)=1-9, C (comm	
၂ ဟ			minant)=100 individuals o	
	Stonefly Nymphs	(40	Net Spinning Caddisflies	
	Mayfly Nymphs		Dobsonfly/Helgrammite	Black Fly Larvae
B	Water Penny Larvae	_	Dragonfly & Damselfly	Lunged Snails
⋖	Riffle Beetles	R	Crayfish (2)	Aquatic Worms
TAXA GROUPS	Aquatic Snipe Flies		Crane Flies	Leeches
🖹	Caddisflies		Aquatic Sow Bugs	0 1 . 1 . 1 11
	Gilled Snails		Scud	Weight 11g

Page \_\_\_\_ of \_\_\_

	HERRINGTON LAKE TE	RAN	SECTID CI3		
ш	DATE 10-05-17		TIME	0	Grab sample Hester Dendy
SITE	FORM COMPLETED BY	': 'Υ	5h-		mple Volume: 28. 479
	OTHER: Sample 10-F	+1-	-001-C13-171005	De	epuration Time 7 24 k/S
	Present conditions (chec				
	O Heavy Rain		Inches of rain in last 24 H	lour	s ?
置	O Overcast		_	N	3
WEATHER	O Steady Rain			/ \	0
Ē	O Partly Cloudy		Other:		
	O Intermittent Rain				
	O Clear/Sunny				
	Check all that apply FLOW		WATER CLARITY		WATER COLOR
	O Dry	0	Clear/Transparent	0	None
	O Stagnant/Still	O	Cloudy/Slightly Turbid	0	110-110-110-110-110-110-110-110-110-110
	O Low	lo	Opaque/Very Turbid	o	Green
(0	O Normal	0	Other:	0	Milky/White
ž	O High			0	Tannic/Black
으	O Flood over banks			0	Other:
OBSERVATIONS			WATER SURFACE	<u></u>	
K	Q Clear/Sunny		7771211 00111 7102		
B/	O Oily sheen that break	s wh	nen disturbed		
) E	O Oily sheen that does	not l	reak when disturbed		
	O Some foam		Color		
	O More than 3" foam		Color		
	0/21 ( 101		WATER ODOR		011
	O Natural/None	0	Gasoline	0	Other
	O Fishy O Sewage	0	Chlorine Sulfur		8
			THESE TAXA AS X, R, C	0"	D
			nd, R (rare)=1-9, C (comm		
လ			minant)=100 individuals o		
TAXA GROUPS	Stonefly Nymphs		Net Spinning Caddisflies		Midge Fly Larvae
	Mayfly Nymphs (160)		Dobsonfly/Helgrammite		Black Fly Larvae
B	Water Penny Larvae		Dragonfly & Damselfly		Lunged Snails
ď	Riffle Beetles	R	Crayfish $(4)$		Aquatic Worms
×	Aquatic Snipe Flies		Crane Flies		Leeches
🖹	Caddisflies	_	Aquatic Sow Bugs		
	Gilled Snails(13)		Scud Clams & Mussels		
		1	ICIAILIS OF WITHSSEIS		l,

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	HERRINGTON LAKE TR	AN	SECT ID	
111	DATE 0-05-17		TIME	Grab sample O Hester Dendy
SITE	FORM COMPLETED BY		n	Sample Volume:
	OTHER:			Depuration Time
	· · · · · · · · · · · · · · · · · · ·		1-C14-171005	24 hrs
or I	Present conditions (check O Heavy Rain		that apply) Inches of rain in last 24 H	laura D
WEATHER	O Overcast			`
Ė	O Steady Rain		No	
E/	O Partly Cloudy		Other:	:
<b>                                     </b>	O Intermittent Rain  Ø Clear/Sunny			
$\rightarrow$	Check all that apply			
	FLOW		WATER CLARITY	WATER COLOR
	O Dry	9	Clear/Transparent	O None
	O Stagnant/Still G	00	Cloudy/Slightly Turbid Opaque/Very Turbid	O Brown/Muddy O Green
,,	Ø Normal	Ö	Other:	O Milky/White
Z/	O High			O Tannic/Black
은	O Flood over banks			O Other:
OBSERVATIONS			WATER SURFACE	
ER	O Clear/Sunny		P-4b - d	
BS	O Oily sheen that breaks O Oily sheen that does r			
0	O Some foam	1011	Color	
	O More than 3" foam		Color	
5.	A Notural/None	_	WATER ODOR	O Othori
/	O Ratural/None O Fishy	0	Gasoline Chlorine	O Other
	O Sewage	Ö	Sulfur	*
			THESE TAXA AS X, R, C	
ဟ			nd, R (rare)=1-9, C (comm ominant)=100 individuals o	
占	Stonefly Nymphs	luc	Net Spinning Caddisflies	
S	Mayfly Nymphs		Dobsonfly/Helgrammite	Black Fly Larvae
<u>P</u>	Water Penny Larvae		Dragonfly & Damselfly	Lunged Snails
₹	Riffle Beetles	K	Crayfish (Z)	Aquatic Worms
TAXA GROUPS	Aquatic Snipe Flies Caddisflies		Crane Flies	Leeches
	Gilled Snails		Aquatic Sow Bugs Scud	_
			Clams & Mussels	

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Page _	of	

	HERRINGTON LAKE TR	RAN	SECT ID	T
			HQ INLE	
	DATE		TIME	Ø∕ Grab sample
Ιш	10-6-17			O Hester Dendy
SITE		in /	MTSorensen	Sample Volume:
	OTHER:			Depuration Time
	*		001-612-171005	24 hrs
	Present conditions (chec	k all		
WEATHER	O Heavy Rain		Inches of rain in last 24 F	lours
Ī	O Overcast			
🕌	O Steady Rain			
<b>直</b>	O Partly Cloudy		Other:	•
	O Intermittent Rain			*
	Check all that apply			
	FLOW		WATER CLARITY	WATER COLOR
	O Dry	Q/	Clear/Transparent	O None
	O Stagnant/Still	0	Cloudy/Slightly Turbid	O Brown/Muddy
	O Low	0	Opaque/Very Turbid	O Green
ဟ	O Normal	0	Other:	O Milky/White
Z	O High			O Tannic/Black
≌	O Flood over banks			O Other:
OBSERVATIONS			WATER SURFACE	
	O Clear/Sunny M70			
👸	O Oily sheen that break			
	O Oily sheen that does	not l		
"	O Some foam		Color	
	O More than 3" foam		Color	
			WATER ODOR	
	<del>Ø Na</del> tural/None	0	Gasoline	O Other
	O Fishy	0	Chlorine	727
	O Sewage	0	Sulfur	
			THESE TAXA AS X, R, C	
l ທ			nd, R (rare)=1-9, C (comm	
💆		(ac	minant)=100 individuals o	
1 2	Stonefly Nymphs		Net Spinning Caddisflies	
🔀	C Mayfly Nymphs	77	Dobsonfly/Helgrammite	Black Fly Larvae
O	Water Penny Larvae	K	Dragonfly & Damselfly	Lunged Snails
15	Riffle Beetles		Crayfish	Aquatic Worms
TAXA GROUPS	Aquatic Snipe Flies		Crane Flies	Leeches
-	Caddisflies C Gilled Snails	_	Aquatic Sow Bugs	sample weight
	C Gilled Shalls		Scud  Clams & Mussels	119
	1	1	Ciamo a Mussels	<b>1</b>

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	HERRINGTON LAKE TR	RAN	SECTID LHL1			
Ш	DATE 10-12-17		1:30	O Grab sample O Hester Dendy		
SITE	FORM COMPLETED BY	: B0	n	Sample Volume:		
	OTHER:	\ i	001 1111 121010	Depuration Time		
			001-LHU-17101Z	24 hrs		
~	Present conditions (chec			9		
WEATHER	O Heavy Rain O Overcast		Inches of rain in last 24 H	iours		
∓	O Steady Rain		yes	<i>a</i>		
Ĭ.	O Partly Cloudy		Other:			
\$	O Intermittent Rain					
	O Clear/Sunny					
	Check all that apply					
	FLOW		WATER CLARITY	WATER COLOR		
	O Dry O Stagnant/Still	0	Clear/Transparent	Ø None		
	O Low	0	Cloudy/Slightly Turbid Opaque/Very Turbid	O Brown/Muddy O Green		
	Ø Normal	lo	Other:	O Milky/White		
S	O High			O Tannic/Black		
0	O Flood over banks			O Other:		
OBSERVATIONS			WATER SURFACE			
N.	Ø Clear/Sunny					
SE	O Oily sheen that break					
B	O Oily sheen that does	not l				
	O Some foam		Color			
	O More than 3" foam		Color WATER ODOR			
	Natural/None	0	Gasoline	O Other		
	O Fishy	Ŏ	Chlorine			
	O Sewage	0	Sulfur	ě		
	MA	RK	THESE TAXA AS X, R, C	, or D		
ဟ			nd, R (rare)=1-9, C (comm			
<u>a</u>	Stonefly Nymphs	(ac	minant)=100 individuals of Net Spinning Caddisflies			
<u> </u>	R Mayfly Nymphs(2)		Dobsonfly/Helgrammite	Midge Fly Larvae Black Fly Larvae		
K	Water Penny Larvae		Dragonfly & Damselfly	Lunged Snails		
TAXA GROUPS	Riffle Beetles	R	Crayfish (4)	Aquatic Worms		
×	Aquatic Snipe Flies		Crane Flies	Leeches		
1/	Caddisflies		Aquatic Sow Bugs	Weight 28.29		
	Gilled Snails (IS)		Scud Clams <del>&amp; Mussel</del> s	Marin 200		
	W =		Ciarris a widoscis			

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	HERRINGTON LAKE TR	RAN	SECTID LHL2	
ш	DATE 10-12-17		TIME   00	O Grab sample O Hester Dendy
SITE	FORM COMPLETED BY	: 17 Q	rsen	Sample Volume:
	OTHER: Sample 15-A	1-0	001-LHL2-17101Z	Depuration Time
	Present conditions (chec	k all	that apply)	
WEATHER	O Heavy Rain		Inches of rain in last 24 H	lours (
🗒	Ø Overcast		Ves	
	O Steady Rain			
Ĭ	O Partly Cloudy		Other:	*
	O Intermittent Rain		·	
	O Clear/Sunny			
	Check all that apply		WATER OLARITY	
	FLOW	0//	WATER CLARITY	WATER COLOR
	O Dry	0	Clear/Transparent	W None
	O Stagnant/Still	0	Cloudy/Slightly Turbid	O Brown/Muddy
	O Low	0	Opaque/Very Turbid	O Green
<u>S</u>	Ø Normal	0	Other:	O Milky/White
5	O High O Flood over banks			O Tannic/Black
ΙĔ	O Flood over banks			O Other:
OBSERVATIONS	//		WATER SURFACE	(9)
	Ø Clear/Sunny			_
<u>                                    </u>	O Oily sheen that break			
	O Oily sheen that does	not l		
~	O Some foam		Color	
	O More than 3" foam		Color	
	O Not well Notes	_	WATER ODOR	0.00
	O Natural/None	0	Gasoline	O Other
	O Fishy	0	Chlorine Sulfur	91
	O Sewage			D
			THESE TAXA AS X, R, C nd, R (rare)=1-9, C (comm	
ဟု			minant)=100 individuals o	
목	Stonefly Nymphs	, (ac	Net Spinning Caddisflies	
Ιō	Mayfly Nymphs		Dobsonfly/Helgrammite	Black Fly Larvae
뜻	Water Penny Larvae		Dragonfly & Damselfly	Lunged Snails
٦	Riffle Beetles	R	Crayfish(2)	Aquatic Worms
TAXA GROUPS	Aquatic Snipe Flies		Crane Flies	R Leeches
	Caddisflies			the state of the s
	Gilled Snails		Scud	Weight 8.19
			Clams & Mussels	

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	HERRINGTON LAKE TF	RAN	CHC3			
ш	DATE 10-12-17 FORM COMPLETED BY		TIME /230	O Grab sample O Hester Dendy		
SITE	PORIVI COMPLETED BY	24	/MTSorense	Sample Volume:		
	OTHER:	1		Depuration Time		
	Sample 10-A			24 hrs		
~	Present conditions (chec	k all		. 5		
WEATHER	O Heavy Rain	add	Inches of rain in last 24 F	lours <		
프	O Overcast		1/05			
⋖	O Steady Rain O Partly Cloudy		Other:			
K	O Intermittent Rain		Other.			
>	O Clear/Sunny					
	Check all that apply					
	FLOW		WATER CLARITY	WATER COLOR		
	O Dry	0	Clear/Transparent	Ø None		
	O Stagnant/Still	0	Cloudy/Slightly Turbid	O Brown/Muddy		
	O Low	0	Opaque/Very Turbid	O Green		
ဟ	⊙´ Normal	0	Other:	O Milky/White		
Z	O High	1		O Tannic/Black		
읟	O Flood over banks			O Other:		
OBSERVATIONS	WATER SURFACE					
R R	O Clear/Sunny M75					
SS	O Oily sheen that break					
9	O Oily sheen that does	not t				
	O Some foam		Color			
	O More than 3" foam		Color WATER ODOR			
	Natural/None	0	Gasoline	O Other		
	O Fishy	0	Chlorine	O Other		
	O Sewage	Ö	Sulfur	k		
		RK	THESE TAXA AS X, R, C	, or D		
			nd, R (rare)=1-9, C (comm			
PS		(do	minant)=100 individuals o			
Š	Stonefly Nymphs		Net Spinning Caddisflies			
8	Mayfly Nymphs		Dobsonfly/Helgrammite	Black Fly Larvae		
ত	Water Penny Larvae	0	Dragonfly & Damselfly	Lunged Snails		
5	Riffle Beetles	1	Crayfish (2)	Aquatic Worms		
_	Aquatia China Elias			II aaabaa		
¥	Aquatic Snipe Flies	-	Crane Flies	Leeches		
TAXA GROUPS	Caddisflies		Aquatic Sow Bugs			
TAX				Weight - 23,59		

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	HERRINGTON LAKE TR	RAN	SECT ID LHL4	
ш	DATE 10-12-17		TIME 1330	Grab sample     Hester Dendy
SITE	FORM COMPLETED BY	1	B6	Sample Volume:
	OTHER: Sample 10 A	1-0	001-171012	Depuration Time
	Present conditions (check			d (MI)
24	O Heavy Rain	\ ali	Inches of rain in last 24 H	lours
뽀	Ø Overcast     Ø Overcast		Inches of rain in last 24 H	124 hrs! Yes
WEATHER	O Steady Rain			
Ē.	O Partly Cloudy		Other:	
>	O Intermittent Rain			
	O Clear/Sunny Check all that apply			
	FLOW	_	WATER CLARITY	WATER COLOR
	O Dry	0	Clear/Transparent	Ø None
	O Stagnant/Still	0	Cloudy/Slightly Turbid	O Brown/Muddy
	O Low	0	Opaque/Very Turbid	O Green
<u>S</u>	Ø Normal	0	Other:	O Milky/White
Ó	O High O Flood over banks			O Tannic/Black O Other:
OBSERVATIONS	O TIOOG OVER BAINES			O Other.
<b>∑</b>			WATER SURFACE	
H	O Clear/Sunny			-
38	O Oily sheen that break			
Ö	O Oily sheen that does in Some foam	not i	Color	
`	O More than 3" foam		Color	
	- more trially really		WATER ODOR	
	Natural/None	0	Gasoline	O Other
	O Fishy	0	Chlorine	522
	O Sewage	0	Sulfur	- D
			THESE TAXA AS X, R, C nd, R (rare)=1-9, C (comm	
တ္ထ			minant)=100 individuals of	
5	Stonefly Nymphs		Net Spinning Caddisflies	
2	Mayfly Nymphs(多)		Dobsonfly/Helgrammite	Black Fly Larvae
5	Water Penny Larvae	-71	Dragonfly & Damselfly	Lunged Snails
TAXA GROUPS	Riffle Beetles	LK	Crayfish (2) Crane Flies	Aquatic Worms
₹	Aquatic Snipe Flies Caddisflies		Aquatic Sow Bugs	Leeches
-	Gilled Snails		Scud	Weight 25.67
			Clams & Mussels	

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	HERRINGTON LAKE TR	RAN	SECT ID LHLS			
ш	DATE 10-12-17		TIME 1530	Grab sample     Hester Dendy		
SITE	FORM COMPLETED BY	B	$l_{\gamma}$	Sample Volume: 7.85 9		
	OTHER:			Depuration Time		
	Present conditions (chec	k all	that apply)			
R	O Heavy Rain		Inches of rain in last 24 H	lours ?		
WEATHER	O Overcast O Steady Rain		Yes			
ĒΑ	O Partly Cloudy		Other:			
	O Intermittent Rain O Clear/Sunny					
	Check all that apply					
	FLOW		WATER CLARITY	WATER COLOR		
	O Dry O Stagnant/Still	0	Clear/Transparent Cloudy/Slightly Turbid	None     Brown/Muddy		
	O Low	o	Opaque/Very Turbid	O Green		
ဟ	Normal	0	Other:	O Milky/White		
Ž	O High			O Tannic/Black		
≌	O Flood over banks			O Other:		
OBSERVATIONS	WATER SURFACE					
H H	O Clear/Surmy					
38	O Oily sheen that break O Oily sheen that does					
Ö	O Oily sheen that does O Some foam	HOL	Color			
	O More than 3" foam		Color			
			WATER ODOR			
	Natural/None	0	Gasoline	O Other		
	O Fishy O Sewage	0	Chlorine Sulfur	ä		
			THESE TAXA AS X, R, C	, or D		
_ ا	X = not	fou	nd, R (rare)=1-9, C (comm	on)=10-99		
₹		(dc	ominant)=100 individuals o			
۱ <u>۵</u> .	Stonefly Nymphs		Net Spinning Caddisflies Dobsonfly/Helgrammite			
Ķ	Mayfly Nymphs (A) Water Penny Larvae	_	Dragonfly & Damselfly	Black Fly Larvae Lunged Snails		
	Riffle Beetles	P	Crayfish (2)	Aquatic Worms		
TAXA GROUPS	Aquatic Snipe Flies		Crane Flies	Leeches		
ı∠	Caddisflies (K)		Aquatic Sow Bugs	Witasht 7.95 g		
	Cillad Carilla [A.III]	1	I Chartal			
ľ	Gilled Snails (VIDO)	-	Scud Clams & Mussels	1027.175		

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	HERRINGTON LAKE TR	RAN	SECT ID LHC6		
щ	DATE 10-12-17		TIME 1620	O Grab sample O Hester Dendy	
SITE	FORM COMPLETED BY:		Sample Volume:		
	OTHER:	·A	1-001-446-171012	Depuration Time  24 h rs	
	Present conditions (check				
œ	O Heavy Rain		Inches of rain in last 24 H	lours	
뽀	O Overcast		17		
WEATHER	O Steady Rain		Yes		
Ε⁄	O Partly Cloudy		Other:		
≥	O Intermittent Rain				
	O Clear/Sunny				
	Check all that apply		WATER OLARITY	WATER OOLOR	
	FLOW	0 -	WATER CLARITY	WATER COLOR	
	O Dry O Stagnant/Still	0	Clear/Transparent Cloudy/Slightly Turbid	O None O Brown/Muddy	
	O Low	0	Opaque/Very Turbid	O Green	
	O Normal	0	Other:	O Milky/White	
SZ	O High		Caron.	O Tannic/Black	
<u> </u>	O Flood over banks			O Other:	
OBSERVATIONS					
≳			WATER SURFACE	413.541	
出	O Clear/Sunny		ا ما ما ما ما ما		
38	O Oily sheen that break				
ō	O Oily sheen that does I	IOL	Color		
	O More than 3" foam		Color		
	- Wore man o loan		WATER ODOR		
	O Natural/None	0	Gasoline	O Other	
	O Fishy	0	Chlorine		
	O Sewage	0	Sulfur	:**	
			THESE TAXA AS X, R, C		
			nd, R (rare)=1-9, C (comm		
Ä		(do	minant)=100 individuals or		
2	Stonefly Nymphs	0	Net Spinning Caddisflies		
8	Mayfly Nymphs (120)	R	Dobsonfly/Helgrammite		
Q	Water Penny Larvaé Riffle Beetles	R	Dragonfly & Damselfly Crayfish (1)	Lunged Snails Aquatic Worms	
TAXA GROUPS	Aquatic Snipe Flies	_	Crane Flies	Leeches	
[₹	Caddisflies		Aguatic Sow Bugs		
-	R Gilled Snails (3)		Scud Dugs	leight 18.59	
			Clams & Mussels	, , ,	

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	HERRINGTON LAKE TR	RAN	SECTIO DIX RUX	+ RNEW	
ш	DATE 10-7-17		TIME	O Grab sample O Hester Dendy	
SITE	FORM COMPLETED BY		er/BG	Sample Volume:	
	OTHER: Sample 10-A1-	DO	1-DR-171007	Depuration Time	
	Present conditions (chec	k all	that apply)	0.711	
WEATHER	O Heavy Rain		Inches of rain in last 24 H	lours 🧷	
ĮΞ	O Overcast		N	$\wedge$	
A	O Steady Rain		Other:	9	
	O Partly Cloudy O Intermittent Rain		Other:		
>	Clear/Sunny		-		
	Check all that apply				
	FLOW		WATER CLARITY	WATER COLOR	
	O Dry	0	Clear/Transparent	Ø None	
	O Stagnant/Still	0	Cloudy/Slightly Turbid	O Brown/Muddy	
	O Low O Normal	0	Opaque/Very Turbid Other:	O Green O Milkv/White	
S	O High		Other.	O Milky/White O Tannic/Black	
0	O Flood over banks			O Other:	
OBSERVATIONS	WATER SURFACE				
<b>A</b>	Ø Clear/ <del>Sunny</del>		WATER COREACE		
SE	O Oily sheen that break				
B	O Oily sheen that does	not k	oreak when disturbed		
	O Some foam		Color		
	O Some foam O More than 3" foam		Color		
(	O More than 3" foam	0	Color WATER ODOR	O Other	
(	O More than 3" foam  Natural/None	0	Color WATER ODOR Gasoline	O Other	
(	O More than 3" foam	0 0 0	Color WATER ODOR	O Other	
,	O More than 3" foam  Natural/None O Fishy O Sewage	0 0 <b>RK</b>	Color WATER ODOR Gasoline Chlorine Sulfur THESE TAXA AS X, R, C	, or D	
	O More than 3" foam  Natural/None O Fishy O Sewage  MA X = not	O O RK four	Color WATER ODOR Gasoline Chlorine Sulfur THESE TAXA AS X, R, C	<b>, or D</b> on)=10-99	
JPS Sal	O More than 3" foam  Natural/None O Fishy O Sewage  MA  X = not and D	O O RK four	Color WATER ODOR Gasoline Chlorine Sulfur THESE TAXA AS X, R, C nd, R (rare)=1-9, C (commoniant)=100 individuals o	on)=10-99 r greater	
OUPS	O More than 3" foam  Natural/None O Fishy O Sewage  X = not and D  Stonefly Nymphs	O O RK four	Color WATER ODOR Gasoline Chlorine Sulfur THESE TAXA AS X, R, C nd, R (rare)=1-9, C (commoninant)=100 individuals o Net Spinning Caddisflies	, <b>or D</b> on)=10-99 r greater Midge Fly Larvae	
skoups	O More than 3" foam  Natural/None O Fishy O Sewage  X = not and D  Stonefly Nymphs Mayfly Nymphs	O O RK four	Color WATER ODOR Gasoline Chlorine Sulfur THESE TAXA AS X, R, Cond, R (rare)=1-9, C (commoniant)=100 individuals of Net Spinning Caddisflies Dobsonfly/Helgrammite	on)=10-99 r greater Midge Fly Larvae Black Fly Larvae	
A GROUPS	O More than 3" foam  Natural/None O Fishy O Sewage  X = not and D  Stonefly Nymphs	O O RK four	Color WATER ODOR Gasoline Chlorine Sulfur THESE TAXA AS X, R, Cond, R (rare)=1-9, C (commoninant)=100 individuals of Net Spinning Caddisflies Dobsonfly/Helgrammite Dragonfly & Damselfly	on)=10-99 r greater Midge Fly Larvae Black Fly Larvae Lunged Snails	
XA GROUPS	O More than 3" foam  Natural/None O Fishy O Sewage  MA X = not and D Stonefly Nymphs Mayfly Nymphs Water Penny Larvae Riffle Beetles Aquatic Snipe Flies	O O RK four	Color WATER ODOR Gasoline Chlorine Sulfur THESE TAXA AS X, R, Cond, R (rare)=1-9, C (commoniant)=100 individuals of Net Spinning Caddisflies Dobsonfly/Helgrammite Dragonfly & Damselfly Crayfish Crane Flies	on)=10-99 r greater Midge Fly Larvae Black Fly Larvae	
TAXA GROUPS	O More than 3" foam  Natural/None O Fishy O Sewage  MA  X = not and D  Stonefly Nymphs Mayfly Nymphs Water Penny Larvae Riffle Beetles Aquatic Snipe Flies Caddisflies	O O RK four (do	Color WATER ODOR Gasoline Chlorine Sulfur THESE TAXA AS X, R, Cond, R (rare)=1-9, C (commoniant)=100 individuals of Net Spinning Caddisflies Dobsonfly/Helgrammite Dragonfly & Damselfly Crayfish Crane Flies Aquatic Sow Bugs	on)=10-99 r greater Midge Fly Larvae Black Fly Larvae Lunged Snails Aquatic Worms Leeches	
TAXA GROUPS	O More than 3" foam  Natural/None O Fishy O Sewage  MA X = not and D Stonefly Nymphs Mayfly Nymphs Water Penny Larvae Riffle Beetles Aquatic Snipe Flies	O O RK four (do	Color WATER ODOR Gasoline Chlorine Sulfur THESE TAXA AS X, R, Cond, R (rare)=1-9, C (commoniant)=100 individuals of Net Spinning Caddisflies Dobsonfly/Helgrammite Dragonfly & Damselfly Crayfish Crane Flies	on)=10-99 r greater Midge Fly Larvae Black Fly Larvae Lunged Snails Aquatic Worms	