

Attachment 1: Chain of Custody Forms


Fiscal Year: 1314	Project ID: SWB_FishLk_LC_2014	Contact Person: Autumn Bonnema
Region:	Season:	Phone: 831-771-4175
Field Crew:	Date:	email: bonnema@miml.calstate.edu
		Mailing Address: 7544 Sandholdt Rd. Moss Landing, CA 95039


LabSampleID	StationCode	Station Name	Species	BagID	MPSL_ID	Sample Date	Tissue THg	Tissue Se	Tissue PCBs	Tissue Ocs	Tissue MYCs	# of Containers Foil wrap in Plastic	Preservation Frozen
TOTAL							0	0	0	0	0	0	0


Comments: Please see attached AA form for explicit instructions and data reporting format.

Samples Relinquished by:		Samples Received by:	
Name (Print and Sign)	Date	Name (Print and Sign)	

Attachment 2: Field Data Sheets

SWAMP Field Data Sheet (Water Chemistry & Discrete Probe) - EventType=WQ					Entered in d-base (initial/date)			Pg of Pgs				
*StationID: _____		*Date (mm/dd/yyyy): / /		*Group:			*Agency:					
*Project: SWB_FishLk_LC_2014		ArrivalTime: _____		DepartureTime: _____		*SampleTime (1st sample): see below			*Protocol:			
*FundingCode: 1_3_S_W_B_G_0_1		*Personnel: _____			*Purpose (all applic): WaterChem Habitat Continuous			*PurposeFailure:				
		*GPS/DGPS	Lat (dd.dddd)		Long (ddd.dddd)		OCCUPATION METHOD: Walk-in Bridge R/V _____ Other					
GPS Device: _____		Target: _____		-		STARTING BANK (facing downstream): LB / RB / NA						
Datum: NAD83		Accuracy (ft / m): _____		*Actual: _____		Point of Sample (if Integrated, then -88 in dbase)						
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / N / Unk	BEAUFORT SCALE (see attachment):						
SITE ODOR: None, Sulfides, Sewage, Petroleum, Smoke, Other _____												
SKY CODE: Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy		WIND DIRECTION (from):			HYDROMODIFICATION: None, Bridge, Pipes, ConcreteChannel, GradeControl, Culvert, AerialZipline, Other							
OTHER PRESENCE: Vascular, Nonvascular, OilySheen, Foam, Trash, Other _____						LOCATION (to sample): US / DS / WI / NA						
DOMINANT SUBSTRATE: Bedrock, Concrete, Cobble, Gravel, Sand, Mud, Unk, Other _____						PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode) 1: (RB / LB / BB / US / DS / ##)						
WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)		PRECIPITATION: None, Fog, Drizzle, Rain, Snow				2: (RB / LB / BB / US / DS / ##)						
WATERODOR: None, Sulfides, Sewage, Petroleum, Mixed, Other _____		PRECIPITATION (last 24 hrs): Unknown, <1", >1", None				3: (RB / LB / BB / US / DS / ##)						
WATERCOLOR: Colorless, Green, Yellow, Brown		EVIDENCE OF FIRES: No, <1 year, <5 years										
OVERLAND RUNOFF (Last 24 hrs): none, light, moderate / heavy, unknown												
Field Measurements (SampleType = FieldMeasure; Method = Field)												
Location (circle)	Bottom Depth (m)	StartTime	EndTime	Calibration date:	latitude (both probe and grab)	longitude (both probe and grab)						
Bank OpenWater ___												
Bank OpenWater ___												
Bank OpenWater ___												
Collection Device: _____												
Samples Taken (# of containers filled) - Method=Water_Grab					Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
SAMPLE TYPE: Grab / Integrated		COLLECTION DEVICE: Indiv bottle (by hand, by pole, by bucket); Teflon tubing; Kemmerer; Pole & Beaker;										
Location: (circle)	position	Time first sample	Collect Depth (m)	Device	Clarity	Odor	Color	ChIA (ml)	THg (250ml)	TMMHg (250ml)	DOC	Sulfate (125 ml)
Bank OpenWater ___	Subsurface			by-hand								
Bank OpenWater ___	NearBottom			kemmerer								
Bank OpenWater ___	Subsurface			by-hand								
Bank OpenWater ___	NearBottom			kemmerer								
Bank OpenWater ___	Subsurface			by-hand								
Bank OpenWater ___	NearBottom			kemmerer								
COMMENTS:												

SWAMP Field Data Sheet (Sediment Chemistry) - EventType=WQ						Entered in d-base (initial/date)			Pg of Pgs				
*StationID: _____			*Date (mm/dd/yyyy): / /			*Group:			*Agency:				
*Project: SWB_FishLk_LC_2014			ArrivalTime:		DepartureTime:		*SampleTime (1st sample):			*Protocol:			
*FundingCode: 13SWBG01			*Personnel:			*Purpose (circle applicable): SedChem Habitat Benthic			*PurposeFailure:				
*Location: Bank Thalweg Midchannel OpenWater			*GPS	Lat (dd.dxxxx)		Long (ddd.dxxxx)		OCCUPATION METHOD: Walk-in Bridge RV _____ Other					
GPS Device:			*Target:			-		STARTING BANK (facing downstream): LB / RB / NA					
			*Actual:			-		Point of Sample (if Integrated, then -88 in dbase)					
Datum: NAD83		Accuracy (ft/m):		Same as Water/Probe Collection? YES NO									
Habitat Observations (CollectionMethod = Habitat_generic)					WADEABILITY: Y / N / Unk	BEAUFORT SCALE see Attachment							
**Only complete Sed Observations (bolded) if WQ Observations are already recorded								HYDROMODIFICATION: None, Bridge, Pipes, ConcreteChannel, GradeControl, Culvert, AerialZipline, Other LOCATION (to sample): US / DS / WI / NA					
SITE ODOR:		None, Sulfides, Sewage, Petroleum, Smoke, Other			WIND DIRECTION (from):		PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode)						
SKY CODE:		Clear, Partly Cloudy, Overcast, Fog, Smoky, Hazy									1: (RB / LB / BB / US / DS / ##)		
OTHERPRESENCE:		Vascular, Nonvascular, OilySheen, Foam, Trash, Other											
DOMINANTSUBSTRATE:		Bedrock, Concrete, Cobble, Gravel, Sand, Mud, Unk, Other											
SEDODOR:		None, Sulfides, Sewage, Petroleum, Mixed, Other			PRECIPITATION:		None, Fog, Drizzle, Rain, Snow						
SEDCOLOR:		Colorless, Green, Yellow, Brown			PRECIPITATION (last 24 hrs):		Unknown, <1", >1", None						
SEDCOMPOSITION:		Silt/Clay, FineSand, CoarseSand, Gravel, Cobble, Mixed, HardPanCl			EVIDENCE OF FIRES:		No, <1 years, <5 years						
Samples Taken (# of containers filled) - Method=Sed_Grab						Field Dup YES / NO: (SampleType = Grab / Integrated; LABEL_ID = FieldQA; create collection record upon data entry)							
COLLECTION DEVICE:			Scoop (SS / PC / PE, Core (SS / PC / PE), Grab (Van Veen / Eckman / Petite Ponar)						COLLECTION DEVICE AREA (m2): _____				
Location: (circle)	Sample Type:	Depth Collec (cm)	Collection Time	Equipment Used	Water Depth (m)	THg (60ml)	TOC included in THg	odor	color	composition	lat long: same as water?	Latitude	Longitude
Bank OpenWater ____	Integrated Grab										yes / no		
Bank OpenWater ____	Integrated Grab										yes / no		
Bank OpenWater ____	Integrated Grab										yes / no		
COMMENTS:													

SWAMP Tissue Sampling - Non-Trawl (Event Type = TI) SWB_FishLk_LC_2014				Entered in d-base (initial/date)		Pg of Pgs	
*StationCode: _____		*StationName: _____				*Purpose Failure Code:	
*FundingCode: <u>1 3 S W B G 0 1</u>		*Date (mm/dd/yyyy): / /				Agency	
*Sampling Crew:		ArrivalTime: _____	BEAUFORT SCALE (see attachment):	WIND DIRECTION (from):		 PHOTOS (RB & LB assigned when facing downstream; RENAME to StationCode_yyyy_mm_dd_uniquecode) 1: (RB / LB / BB / US / DS / ##) 2: (RB / LB / BB / US / DS / ##) 3: (RB / LB / BB / US / DS / ##)	
		DepartureTime: _____					
DOMINANTSUBSTRATE: Concrete,Cobble,Gravel,Sand,Mud,Other____,unk			WATERCOLOR: Colorless, Green, Yellow, Brown				
WATERCLARITY: Clear (see bottom), Cloudy (>4" vis), Murky (<4" vis)			OTHER PRESENCE: Vascular,Nonvascular,OilySheen,Foam,Trash,O				
Comments:							
Tissue Collection							
COLLECTION DEVICE: RV _____ Masta-Blasta, Big E, Sparky, Backpack Model _____, Net (length & mesh) _____							
Target:	Lat (dd.ddddd)	Long (dd.ddddd)		-			
GPS Model:			Datum: NAD83 WGS84 Other _____		*GPS / DGPS		Elevation (ft):
Location	*Depth (m):	Distance from Bank (m):		Accuracy (ft / m)	Latitude (dd.ddddd)	Longitude (-ddd.ddddd)	Depth (m)
COLLECTION METHOD:	E-boat, Backpack shocker, Fyke net, gill net, seine, hook & line			Start Time	Coord. 1		
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water, NA				Coord. 2		
HYDROMODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert,			End Time	Coord. 3		
HYDROMODLOC(to sample):	US / DS / NA/ WI	Other _____	Geoshape: Line Poly Point		Coord. 4		
Location	*Depth (m):	Distance from Bank (m):			Latitude (dd.ddddd)	Longitude (-ddd.ddddd)	Depth (m)
COLLECTION METHOD:	E-boat, Backpack shocker, Fyke net, gill net, seine, hook & line			Start Time	Coord. 1		
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water, NA				Coord. 2		
HYDROMODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert,			End Time	Coord. 3		
HYDROMODLOC(to sample):	US / DS / NA/ WI	Other _____	Geoshape: Line Poly Point		Coord. 4		
Location	*Depth (m):	Distance from Bank (m):			Latitude (dd.ddddd)	Longitude (-ddd.ddddd)	Depth (m)
COLLECTION METHOD:	E-boat, Backpack shocker, Fyke net, gill net, seine, hook & line			Start Time	Coord. 1		
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water, NA				Coord. 2		
HYDROMODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert,			End Time	Coord. 3		
HYDROMODLOC(to sample):	US / DS / NA/ WI	Other _____	Geoshape: Line Poly Point		Coord. 4		
Failure Codes: Dry (no water), Instrument Failure, No Access, Non-sampleable, Pre-abandoned, Other							
Comments:							

SWAMP Tissue Sampling - Non-Trawl (Event Type = T1) SWB_FishLk_LC_2014				Entered in d-base (initial/date)		Pg	of	Pgs
*StationCode: _____		*StationName: _____				*Purpose		Agency
*FundingCode: 1 3 S W B G 0 1		*Date (mm/dd/yyyy): / /				Failure Code:		
Tissue Collection								
Location	*Depth (m):	Distance from Bank (m):		Accuracy (ft / m)	Latitude (dd.ddddd)	Longitude (-ddd.ddddd)	Depth (m)	
COLLECTION METHOD:	E-boat, Backpack shocker, Fyke net, gill net, seine, hook & line			Start Time	Coord. 1			
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water, NA				Coord. 2			
HYDROMODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert,			End Time	Coord. 3			
HYDROMODLOC(to sample):	US / DS / NA/ WI	Other _____	Geoshape: Line Poly Point		Coord. 4			
Location	*Depth (m):	Distance from Bank (m):			Latitude (dd.ddddd)	Longitude (-ddd.ddddd)	Depth (m)	
COLLECTION METHOD:	E-boat, Backpack shocker, Fyke net, gill net, seine, hook & line			Start Time	Coord. 1			
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water, NA				Coord. 2			
HYDROMODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert,			End Time	Coord. 3			
HYDROMODLOC(to sample):	US / DS / NA/ WI	Other _____	Geoshape: Line Poly Point		Coord. 4			
Location	*Depth (m):	Distance from Bank (m):			Latitude (dd.ddddd)	Longitude (-ddd.ddddd)	Depth (m)	
COLLECTION METHOD:	E-boat, Backpack shocker, Fyke net, gill net, seine, hook & line			Start Time	Coord. 1			
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water, NA				Coord. 2			
HYDROMODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert,			End Time	Coord. 3			
HYDROMODLOC(to sample):	US / DS / NA/ WI	Other _____	Geoshape: Line Poly Point		Coord. 4			
Location	*Depth (m):	Distance from Bank (m):			Latitude (dd.ddddd)	Longitude (-ddd.ddddd)	Depth (m)	
COLLECTION METHOD:	E-boat, Backpack shocker, Fyke net, gill net, seine, hook & line			Start Time	Coord. 1			
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water, NA				Coord. 2			
HYDROMODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert,			End Time	Coord. 3			
HYDROMODLOC(to sample):	US / DS / NA/ WI	Other _____	Geoshape: Line Poly Point		Coord. 4			
Location	*Depth (m):	Distance from Bank (m):			Latitude (dd.ddddd)	Longitude (-ddd.ddddd)	Depth (m)	
COLLECTION METHOD:	E-boat, Backpack shocker, Fyke net, gill net, seine, hook & line			Start Time	Coord. 1			
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water, NA				Coord. 2			
HYDROMODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert,			End Time	Coord. 3			
HYDROMODLOC(to sample):	US / DS / NA/ WI	Other _____	Geoshape: Line Poly Point		Coord. 4			
Location	*Depth (m):	Distance from Bank (m):			Latitude (dd.ddddd)	Longitude (-ddd.ddddd)	Depth (m)	
COLLECTION METHOD:	E-boat, Backpack shocker, Fyke net, gill net, seine, hook & line			Start Time	Coord. 1			
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water, NA				Coord. 2			
HYDROMODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert,			End Time	Coord. 3			
HYDROMODLOC(to sample):	US / DS / NA/ WI	Other _____	Geoshape: Line Poly Point		Coord. 4			
Location	*Depth (m):	Distance from Bank (m):			Latitude (dd.ddddd)	Longitude (-ddd.ddddd)	Depth (m)	
COLLECTION METHOD:	E-boat, Backpack shocker, Fyke net, gill net, seine, hook & line			Start Time	Coord. 1			
SAMPLE LOCATION:	Bank, Thalweg, Midchannel, Open Water, NA				Coord. 2			
HYDROMODIFICATION:	None, Bridge, Pipes, Concrete Channel, Grade Control, Culvert,			End Time	Coord. 3			
HYDROMODLOC(to sample):	US / DS / NA/ WI	Other _____	Geoshape: Line Poly Point		Coord. 4			
Failure Codes: Dry (no water), Instrument Failure, No Access, Non-sampleable, Pre-abandoned, Other								
Comments:								

SWAMP Tissue Sampling - Non-Trawl (Event Type = TI) SWB_FishLk_LC_2014									Entered in d-base (initial/date)		Pg: _____ of _____ Pgs	
*StationCode: _____				StationName: _____				Date (mm/dd/yyyy): ____ / ____ / ____				
Location #	Organism ID	Tag #	Species Name/Code	FL (mm)	TL (mm)	StdL (mm)	Weight (g)	Count	Count Est.	Sex	Anomaly	Condition
										M F U L		
										M F U L		
										M F U L		
										M F U L		
										M F U L		
										M F U L		
										M F U L		
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										M F U L		

Location #: Match fish with Location # from Tissue Collection sheet Organism ID: Combine composite # and fish # (e.g., fish 1 of composite WC01 is WC01-01) to be unique Tag #: Use if applicable

Species Code: Largemouth Bass (**LMB**), Smallmouth Bass (**SMB**), Spotted Bass (**SPB**), Sacramento Pike Minnow (**SPM**), Rainbow Trout (**RT**), Brown Trout (**BT**), Brook Trout (**BKT**), White Catfish (**WC**), Carp (**CAR**), Channel Catfish (**CC**), Brown Bullhead (**BRB**), Sacramento Sucker (**SS**), Redear (**RES**), Black Crappie (**CRP**), Bluegill (**BG**), Tilapia (**TIL**), Green Sunfish (**GRS**), Kokanee (**KOK**)

Stage: Adult (A), Juvenile (J), Subadult (SA), Not Recorded (NR) Count Est: If appropriate, add < or > if count is ϵ

Anomalies: Ambicoloration (A), Albinism (B), Cloudiness (CL), Deformity-skeletal (D), Discoloration (DC), Depression (DS), Fin Erosion (F), Gill Erosion (T), Hemorrhage (H), Lesion (L), Parasite (P), Popeye (PE), Tumor (T), Ulceration (U), White Spots (W), and any combination Sex: unk(U), taken at Lab(L) BodyLocation: Branchial Chamber(BRC), Buccal Cavity(BC), Eyes(E), Musculoskeleton(M), Skin/Fins(SF)

Comments: Mark fish requiring further ID; SEPARATE FISH BY LOCATION AND INDICATE LOCATION # ON LABEL

Modified 06/19/07

Attachment 4: Laboratory Data Sheets

SWAMP Lab Data Sheet - FISH		ProjectID: SWB_FishLk_LC_2014		PrepPres: Skin OFF		LabID:		Pg: 1 of 2 Pgs				
StationCode:				Tissue: fillet		Entered d-base (initial/date)						
StationName:				Homog. Method: BUCCHI POLYTRON OTHER		Staff: Diss.		Homog.				
Species Name: Rainbow Trout				Date Diss. (mm/dd/yyyy): / /		Date Homog. (mm/dd/yyyy): / /						
#	Tissue/Bag ID	Fish #	Organism ID	Composite / Individual ID	FL (mm)	TL (mm)	Whole Fish Wt (g)	Part Wt (g)	Sex	Part	Anomaly	Body Location
1									M / F / Unk	T / L / O		
2									M / F / Unk	T / L / O		
3									M / F / Unk	T / L / O		
4									M / F / Unk	T / L / O		
5									M / F / Unk	T / L / O		
6												
7												
8												
9												
10												
11												
12												
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15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
OrganismID: xxxxxxxxLLXX##YYYzz-ZZ; unique code - StationCode (xxxxxxx), Location (LL), Project (XX), ProjectYear (##), OrganismCode (YYY), Bag # (zz), Fish # (ZZ); ex. 203SRF101L1SW04CAR01-01												
TissueID: Differentiates different parts from same fish or differentiates composited vs. individual fish								Part: Tissue (T), Liver (L), Other (O) - list in Comments				
Comp/IndID: Unique code; include Agency code in the ID; e.g., 2003-1823-MLML or C031501-MLML												
Anomalies: Ambicoloration (A), Albinism (B), Cloudiness (CL), Deformity-skeletal (D), Discoloration (DC), Depression (DS), Fin Erosion (F), Gill Erosion (T), Hemorrhage (H), Lesion (L), Parasite (P),												
Body Locations: Branchial Chamber (BRC), Buccal Cavity (BC), Eyes (E), Musculoskeleton (M), Skin/Fins (SF)								Popeye (PE), Tumor (T), Ulceration (U), White Spots (W), and any combination				
Comments: Measure length to nearest 1 mm; Measure weight to nearest 0.01 g; Keep archive tissue if possible; If a duplicate is made, use DupID as identification for analysis												

SWAMP Lab Data Sheet - FISH		ProjectID: SWB_FishLk_LC_2014	PrepPres: Skin OFF	LabID:	Pg: 2 of 2 Pgs
StationCode:		Tissue: fillet		Entered d-base (initial/date)	
StationName:		Homog. Method: BUCCHI POLYTRON OTHER		Staff: Diss.	Homog.
Species Name: Rainbow Trout		Date Diss. (mm/dd/yyyy): / /		Date Homog. (mm/dd/yyyy): / /	
CHEMISTRY JARS					
CompositelD:		CompositelD:		CompositelD:	
Analysis: WPCL Organics		Analysis: Mercury and Selenium		Analysis: Short Term Archive 1	
Jar Weight Full (g): _____		Jar Weight Full (g): _____		Jar Weight Full (g): _____	
Jar Weight Empty (g): _____		Jar Weight Empty (g): _____		Jar Weight Empty (g): _____	
Comp Tissue Wt (Jar Full - Empty; g): _____		Comp Tissue Wt (Jar Full - Empty; g): _____		Comp Tissue Wt (Jar Full - Empty; g): _____	
Glass 30g					
CompositelD:		CompositelD:			
Analysis: Short Term Archive 2		Analysis: Short Term Archive 3 (PFAs)			
Jar Weight Full (g): _____		Jar Weight Full (g): _____			
Jar Weight Empty (g): _____		Jar Weight Empty (g): _____			
Comp Tissue Wt (Jar Full - Empty; g): _____		Comp Tissue Wt (Jar Full - Empty; g): _____			
Glass 30g		Plastic 30g			
Comments: Keep archive tissue if possible; If a duplicate is made, use Dup ID as identification for analysis					

SWAMP Lab Data Sheet - FISH			ProjectID: SWB_FishLk_LC_2014			PrepPres: Skin OFF			LabID:			Pg: 1 of 2 Pgs		
StationCode:					Tissue: fillet					Entered d-base (initial/date)				
StationName:					Homog. Method: BUCCHI POLYTRON OTHER					Staff: Diss. Homog.				
Species Name: Largemouth Bass					Date Diss. (mm/dd/yyyy): / /					Date Homog. (mm/dd/yyyy): / /				
#	Tissue/Bag ID	Fish #	Organism ID	Composite / Individual ID	FL (mm)	TL (mm)	Whole Fish Wt (g)	Part Wt (g)	Sex	Part	Anomaly	Body Location		
1					/	/	/		M / F / Unk	T / L / O				
2					/	/	/		M / F / Unk	T / L / O				
3					/	/	/		M / F / Unk	T / L / O				
4					/	/	/		M / F / Unk	T / L / O				
5					/	/	/		M / F / Unk	T / L / O				
6					/	/	/		M / F / Unk	T / L / O				
7					/	/	/		M / F / Unk	T / L / O				
8					/	/	/		M / F / Unk	T / L / O				
9					/	/	/		M / F / Unk	T / L / O				
10					/	/	/		M / F / Unk	T / L / O				
11														
12														
13														
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19														
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21														
22														
23														
24														
25														
OrganismID: xxxxxxxxLLXX##YYZz-ZZ; unique code - StationCode (xxxxxxxx), Location (LL), Project (XX), ProjectYear (##), OrganismCode (YYY), Bag # (zz), Fish # (ZZ); ex. 203SRF101L1SW04CAR01-01														
TissueID: Differentiates different parts from same fish or differentiates composited vs. individual fish								Part: Tissue (T), Liver (L), Other (O) - list in Comments						
Comp/IndID: Unique code; include Agency code in the ID; e.g., 2003-1823-MLML or C031501-MLML														
Anomalies: Ambicoloration (A), Albinism (B), Cloudiness (CL), Deformity-skeletal (D), Discoloration (DC), Depression (DS), Fin Erosion (F), Gill Erosion (T), Hemorrhage (H), Lesion (L), Parasite (P),														
Body Locations: Branchial Chamber (BRC), Buccal Cavity (BC), Eyes (E), Musculoskeleton (M), Skin/Fins (SF)								Popeye (PE), Tumor (T), Ulceration (U), White Spots (W), and any combination						
Comments: Measure length to nearest 1 mm; Measure weight to nearest 0.01 g; Keep archive tissue if possible; If a duplicate is made, use DupID as identification for analysis														

SWAMP Lab Data Sheet - FISH		ProjectID: SWB_FishLk_LC_2014	PrepPres: Skin OFF	LabID:	Pg: 2 of 2 Pgs
StationCode:		Tissue: fillet		Entered d-base (initial/date)	
StationName:		Homog. Method: BUCCHI POLYTRON OTHER		Staff: Diss. Homog.	
Species Name: Largemouth Bass		Date Diss. (mm/dd/yyyy): / /		Date Homog. (mm/dd/yyyy): / /	
CHEMISTRY JARS					
CompositelD:		CompositelD:		CompositelD:	
Analysis: WPCL Organics		Analysis: Selenium		Analysis: Short Term Archive 1	
Jar Weight Full (g): _____		Jar Weight Full (g): _____		Jar Weight Full (g): _____	
Jar Weight Empty (g): _____		Jar Weight Empty (g): _____		Jar Weight Empty (g): _____	
Comp Tissue Wt (Jar Full - Empty; g): _____		Comp Tissue Wt (Jar Full - Empty; g): _____		Comp Tissue Wt (Jar Full - Empty; g): _____	
Glass 30g					
CompositelD:		CompositelD:			
Analysis: Short Term Archive 2		Analysis: Short Term Archive 3 (PFAs)			
Jar Weight Full (g): _____		Jar Weight Full (g): _____			
Jar Weight Empty (g): _____		Jar Weight Empty (g): _____			
Comp Tissue Wt (Jar Full - Empty; g): _____		Comp Tissue Wt (Jar Full - Empty; g): _____			
Glass 30g		Plastic 30g			
Individual ID:		Individual ID:		Individual ID:	
Analysis: Mercury		Analysis: Mercury		Analysis: Mercury	
Jar Weight Full (g): _____		Jar Weight Full (g): _____		Jar Weight Full (g): _____	
Jar Weight Empty (g): _____		Jar Weight Empty (g): _____		Jar Weight Empty (g): _____	
Comp Tissue Wt (Jar Full - Empty; g): _____		Comp Tissue Wt (Jar Full - Empty; g): _____		Comp Tissue Wt (Jar Full - Empty; g): _____	
Individual ID:		Individual ID:			
Analysis: Mercury		Analysis: Mercury			
Jar Weight Full (g): _____		Jar Weight Full (g): _____			
Jar Weight Empty (g): _____		Jar Weight Empty (g): _____			
Comp Tissue Wt (Jar Full - Empty; g): _____		Comp Tissue Wt (Jar Full - Empty; g): _____			
Comments: Keep archive tissue if possible; If a duplicate is made, use Dup ID as identification for analysis					

SWAMP Lab Data Sheet - FISH			ProjectID: SWB_FishLk_LC_2014				PrepPres: Skin ON		LabID:		Pg: 1 of 2 Pgs		
StationCode:			Tissue: whole				Entered d-base (initial/date)						
StationName:			Homog. Method: BUCCHI POLYTRON OTHER				Staff: Diss.		Homog.				
Species Name: Threadfin Shad			Date Diss. (mm/dd/yyyy): / /				Date Homog. (mm/dd/yyyy): / /						
#	Tissue/Bag ID	Fish #	Organism ID	Composite / Individual ID	FL (mm)	TL (mm)	Whole Fish Wt (g)	Part Wt (g)	Sex	Part	Anomaly	Body Location	
1					/	/	/		M / F / Unk	T / L / O			
2					/	/	/		M / F / Unk	T / L / O			
3					/	/	/		M / F / Unk	T / L / O			
4					/	/	/		M / F / Unk	T / L / O			
5					/	/	/		M / F / Unk	T / L / O			
6					/	/	/		M / F / Unk	T / L / O			
7					/	/	/		M / F / Unk	T / L / O			
8					/	/	/		M / F / Unk	T / L / O			
9					/	/	/		M / F / Unk	T / L / O			
10					/	/	/		M / F / Unk	T / L / O			
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													
23													
24													
25													
OrganismID: xxxxxxxxLLXX##YYYzz-ZZ; unique code - StationCode (xxxxxxx), Location (LL), Project (XX), ProjectYear (##), OrganismCode (YYY), Bag # (zz), Fish # (ZZ); ex: 203SRF101L1SW04CAR01-01													
TissueID: Differentiates different parts from same fish or differentiates composited vs. individual fish								Part: Tissue (T), Liver (L), Other (O) - list in Comments					
Comp/IndlID: Unique code; include Agency code in the ID; e.g., 2003-1823-MLML or C031501-MLML													
Anomalies: Ambicoloration (A), Albinism (B), Cloudiness (CL), Deformity-skeletal (D), Discoloration (DC), Depression (DS), Fin Erosion (F), Gill Erosion (T), Hemorrhage (H), Lesion (L), Parasite (P),													
Body Locations: Branchial Chamber (BRC), Buccal Cavity (BC), Eyes (E), Musculoskeleton (M), Skin/Fins (SF)								Popeye (PE), Tumor (T), Ulceration (U), White Spots (W), and any combination					
Comments: Measure length to nearest 1 mm; Measure weight to nearest 0.01 g; Keep archive tissue if possible; If a duplicate is made, use DuplID as identification for analysis													

SWAMP Lab Data Sheet - FISH		ProjectID: <u>SWB_FishLk_LC_2014</u>	PrepPres: <u>Skin ON</u>	LabID: _____	Pg: <u>2</u> of <u>2</u> Pgs
StationCode: _____		Tissue: <u>whole</u>		Entered d-base (initial/date) _____	
StationName: _____		Homog. Method: <u>BUCCHI POLYTRON OTHER</u>		Staff: Diss. _____ Homog. _____	
Species Name: <u>Threadfin Shad</u>		Date Diss. (mm/dd/yyyy): <u> / /</u>		Date Homog. (mm/dd/yyyy): <u> / /</u>	
CHEMISTRY JARS					
CompositelD: _____		CompositelD: _____		CompositelD: _____	
Analysis: <u>USGS-WRD Selenium</u>		Analysis: <u>USGS-FRESC Mercury</u>		Analysis: <u>Short Term Archive 1</u>	
Jar Weight Full (g): _____		Jar Weight Full (g): _____		Jar Weight Full (g): _____	
Jar Weight Empty (g): _____		Jar Weight Empty (g): _____		Jar Weight Empty (g): _____	
Comp Tissue Wt (Jar Full - Empty; g): _____		Comp Tissue Wt (Jar Full - Empty; g): _____		Comp Tissue Wt (Jar Full - Empty; g): _____	
Glass 30g					
CompositelD: _____		CompositelD: _____			
Analysis: <u>Short Term Archive 2</u>		Analysis: <u>Short Term Archive 3 (PFAs)</u>			
Jar Weight Full (g): _____		Jar Weight Full (g): _____			
Jar Weight Empty (g): _____		Jar Weight Empty (g): _____			
Comp Tissue Wt (Jar Full - Empty; g): _____		Comp Tissue Wt (Jar Full - Empty; g): _____			
Glass 30g		Plastic 30g			
Comments: Keep archive tissue if possible; If a duplicate is made, use Dup ID as identification for analysis					