

PHYSICAL CHARACTERIZATION AND WATER QUALITY FIELD DATA SHEET (FRONT)

STREAM NAME:		MON LOC ID:	
BIO SITE ID:	DATE:	GPS ERROR (+/-) ft:	
LATITUDE (DD):		LONGITUDE (DD):	
START TIME:	END TIME:	TIME ZONE:	EST EDT
INVESTIGATORS:			
EPD OFFICE:	WP1–Atlanta	WP2–Brunswick	WP3–Cartersville WP4–Tifton
SAMPLE TYPE:	Targeted Probabilistic	ACTIVITY TYPE:	Field Measure/Observation Field Replicate Msr/Obs
FORM COMPLETED BY:	PROJECT/REASON FOR SURVEY:		

STREAM CHARACTERIZATION (Circle Items from List)									
STREAM TYPE:	Coldwater	Warmwater	Refer to GA EPD Water Quality Standards in GA Rules and Regulations.						
SALINE TYPE:	Brackish	Fresh	Saline	Unsure					
WATER APPEARANCE:	Blackwater	Clearwater	Unsure	Unsure/Black	Unsure/Clear				
TIDAL CYCLE:	1/4 ebb	1/2 ebb	3/4 ebb	Low Tide	1/4 flood	1/2 flood	3/4 flood	High Tide	N/A
STREAM ORIGIN:	Mixed Origin	Spring Fed	Swamp/Bog	Unsure/Unknown	Other				
STREAM SUBSYSTEM:	Ephemeral	Intermittent	Perennial	Tidal	Unsure/Unknown				

VISUAL CONDITIONS (Circle Items from List)				
WATER LEVEL/FLOW:	Normal	Above Normal	Normal, but no Velocity	
	Low	Flood	Drought Impact	
WEATHER NOW (circle and fill in all that apply):	_____ % Cloud Cover	Clear (0% cloud cover)/Sunny	Rain (Steady Rain)	
	Showers (intermittent)	Storm (heavy rain)	Snow	
WEATHER PAST 24 HOURS (circle or fill in all that apply):	_____ % Cloud Cover	Clear (0% cloud cover)/Sunny	Rain (Steady Rain)	
	Showers (intermittent)	Storm (heavy rain)	Snow Unsure (past)	
Heavy rain in the last 7 days?	Yes	No	Heavy rain in the last 24 hours?	Yes No

WATER QUALITY (Circle Items from List)						
WATER ODORS:	Normal/None	Petroleum	Fishy	Sewage	Chemical	Other
WATER COLOR:	Clear	Foamy (natural or pollution)	Green (algal coloration evident)	Other		
	Tannic (Tea-colored)	Muddy (cloudy brown)	Milky (cloudy white or gray)			
WATER SURFACE OILS:	None	Sheen	Globs	Flecks	Slick	Other
TURBIDITY (visual observation):	Clear	Slightly Turbid	Turbid	Stained	Opaque	Other

SEDIMENT/SUBSTRATE (Circle Items from List)							
ODOR:	None	Normal	Sewage	Chemical	Anaerobic	Petroleum	Other
DEPOSITS:	None	Sludge	Sawdust	Paper Fiber	Sand	Petroleum	
	Relict Shells	Clay	Organics	Silt	Other		
OILS:	Absent	Moderate	Profuse	Slight			
UNDERSIDES OF LOOSE STONES BLACK IN COLOR?:	Yes	No	N/A				
PREDOMINANT SUBSTRATE(S):	Bedrock	Boulders	Cement	Clay	Cobble	Boulders/RipRap	
	Concrete	Fines	Gravel	Hardpan	Sand	Silt	Other

ORGANIC SUBSTRATE COMPONENTS (Enter Number - does not necessarily add up to 100%)	
Substrate Type (Indicate if 0%):	% Composition in Sampling Area:
Detritus – Coarse Particulate Organic Matter - sticks, wood, coarse plants	
Muck/Mud – Fine Particulate Organic Matter – black, very fine organics	
Marl – Gray, Shell Fragments	

COMMENTS (Include Impacts and TMDL Info.):

PHYSICAL CHARACTERIZATION/WATER QUALITY FIELD DATA SHEET (BACK)

RIPARIAN ZONE/INSTREAM FEATURES (Circle All Applicable from List OR Enter Number)			
PREDOMINANT LAND USE: (watershed wide land use)	Agricultural (Unspecified)	Agriculture and Mining	Ag Row Crops
	Pasture (Unspecified)	Livestock	Cropland
	Residential	Rural Residential	Urban
	Commercial	Industrial	Mining
	Planted Pine (Silviculture)	Selective Cut	Old Growth Forest
	Forest (Unspecified)	Mature Timber (40+ years)	Forest Fire
	Clear-cut Forest (<10 yrs)	Second Growth Forest (10-40 years)	Wetland
	Heavy Grazing Pressure (trampled)	Light Grazing Pressure (cow pies/not trampled)	
	Mining Other(s): _____		
LOCAL WATERSHED NPS POLLUTION: No Evidence Some Potential Sources Obvious Sources			
CANOPY COVER: Open (0-10%) Partly Open (11-45%) Partly Shaded (46-80%) Shaded (81-100%)			
LOCAL WATER EROSION: None Light Moderate Heavy			
BEAVER ACTIVITY OBSERVATIONS: (If active dam in reach, do not sample.)	Inactive Beaver Dam, Little Effect on Stream		No Beaver Activity Evident
	Old Beaver Dam Activity, Little Effect		Inactive Beaver Dam Affecting Stream
	Beaver Cutting Evident, Little Effect on Stream		Active Beaver Dam Affecting Stream
	Active Beaver Dam not Affecting Stream (downstream of reach)		
LIVESTOCK DAMAGE OBSERVATIONS:	No Livestock Damage		Stable (0-25% Damage, Little/No Erosion)
	Moderate (26-50% Damage, <50% Plant Biomass)		High (51-75% Damage, <25% Plant Biomass)
	Severe (76-100% Damage, Little/No Plant Biomass Remains)		
HIGH WATER MARK: _____ (ft)		AVERAGE STREAM WIDTH: _____ (ft)	
AVERAGE STREAM DEPTH FOR EACH: Riffle _____ (ft) Run/Glide _____ (ft) Pool _____ (ft)			
% EACH MORPHOLOGICAL TYPE (Adds up to 100%): Riffle _____ % Run/Glide _____ % Pool _____ %			
STREAM CHANNELIZED?: Yes No		IF YES, REACH LENGTH CHANNELIZED: Full Partial	
STREAM DREDGING?: Yes No		RECENT RESTORATION CONDUCTED (last 10 years): Yes No	
DAM PRESENT?: Yes No		IF DAM PRESENT: Upstream Downstream In Stream Reach	

RIPARIAN VEGETATION (18 meter buffer) (Circle Items from List)							
PREDOMINANT TYPE:	Trees	Shrubs	Grasses	Herbaceous	Other _____		
PREVALENT RIPARIAN VEGETATION COMPOSITION (circle all that apply):	Coniferous Dominated (canopy more than 50% conifer)			Annual Grasses and Herbs			
	Deciduous trees (Alder, Cottonwood, Maple)			Mixed Conifer and Deciduous			
	Forested (dominated by trees, with brushy understory)			No Vegetation (bare soil, rock)			
	Grass (bank covered with tall grasses, sedges, etc.)			Perennial and Mixed Tree Species			
	Perennial Grasses, Forbs, Sedges, and Rushes			Perennial and Shrubs			
	Shrubs (Willow, Salmonberry, some Alder)			Shrubs and Mixed Tree Species			
PREVALENT RIPARIAN VEGETATION SPECIES (circle all that apply):	American Beech	Ash	Bamboo	Bamboo Grass	Bay Magnolia	Birch	
	Cedar	Bay	Black Gum	Black Locust	Box Elder	Fern	
	Cherry	Cane	Cypress	Dogwood	Elder	Honeysuckle	
	Green Ash	Elm	Hemlock	Hickory	Holly	Magnolia	
	Ironwood	Fir	Kudzu	Live Oak	Loblolly Pine	Persimmon	
	Mountain Laurel	Gum	Microstegium	Mimosa	Maple	Redbud	
	Poplar	Oak	Privet	Red Maple	Red Oak	Spanish Moss	
	Rhododendron	Pine	River Birch	River Cane	Saw Palmetto	Tag Alder	
	Short Leaf Pine	Tupelo	Sweet Bay	Sweet Gum	Sycamore	Wax Myrtle	
	Swamp Tupelo	Walnut	Turkey Oak	Water Oak	White Pine	Willow	
	Willow Oak		Other(s) _____				

AQUATIC VEGETATION (Circle Items from List)				
PREDOMINANT TYPE:	None		Attached Algae	
	Rooted Emergent		Rooted Floating	
			Floating Algae	
			Rooted Submergent	
PORTION OF REACH COVERED BY AQUATIC VEGETATION: _____ %				
PREVALENT AQUATIC VEGETATION SPECIES:	Arrowhead		Brown Algae	
	Foxtail		Cattail	
	Lemna		Hydrilla	
	Vallisneria		Parrot Feather	
			Sagittaria	
No Aquatic Vegetation			Other(s) _____	

PHYSICAL CHARACTERIZATION MAP SKETCH (MAP)

STREAM NAME:				MON LOC ID:			
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START TIME:			END TIME:			TIME ZONE: EST EDT	
INVESTIGATORS:							
EPD OFFICE: Atlanta Brunswick Cartersville Tifton				MAP SKETCH ATTACHED: Yes No			
SAMPLE TYPE: Targeted Probabilistic			ACTIVITY TYPE: Field Measure/Observation Field Replicate Msr/Obs				
TIDAL CYCLE: 1/4 ebb 1/2 ebb 3/4 ebb Low Tide 1/4 flood 1/2 flood 3/4 flood High Tide N/A							
MAP/FORM COMPLETED BY:			PROJECT/REASON FOR SURVEY:				

SITE LOCATION/MAP:

Draw a map (including bends in stream when applicable) of the site and indicate Areas Sampled, Habitats, Land Use on LB and RB, Plants, Discharge Conducted. Please also include a legend, when applicable. *Please provide a PDF copy of the sketched map to include as attachment in database.*