



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE ____ OF ____

February 2016

Data Qualified?
Yes / No

STORET Station Name: Little Alapaha River @ CO Rd 148

Date: 04/26/2016
(mm/dd/yyyy)

STORET Station ID: GITLHR0016

Latitude: 30.55345
(Decimal Degrees)

WBID: 3330 RQ: 2016-03-14-56 ORG ID: ZIFLTLHR

Longitude: -82.99446
(Decimal Degrees)

Receiving Body of Water: Alapaha River

Field ID: GITLHR0016

County: Hamilton

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Chris Green						X		X	X
Colby Marshall					X		X		
Jeff Nye					X				

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	
Equipment ID		

Collection Method	
☒ Wading	☐ Via Boat
☐ From Shore	☐ Canoe/Kayak
☐ Other (note below)	☐ Electric Motor
	☐ Gasoline Motor

Water Level: Dry / Low / Normal / <u>High</u> / Flooded						Matrix: <u>Fresh</u> / Marine / DI											
Meter ID# <u>600 XLN #12</u>						Photos: <u>Yes</u> / No						Tide Falling: Yes / No / <u>NA</u>					
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)							
EST	10:40	0.25	0.5	7.4	80.2	4.0	0.03	0.4	57	19.48							
CEN																	

Biological Samples Collected: None <u>HA</u> <u>SC</u> <u>LVS</u> <u>RPS</u> LVI Other										
Parameter Suite	Parameter Methods				Preservation	Acid Lot#	Expiration	pH Check		
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP				☐ Ice ☒ H2SO4	<u>SA-5259020</u>	<u>9/16</u>	☒ <2		
Metals	☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO2			☐ <2		
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice					
Chlorophyll	☒ CHLSUITE-W				☒ Ice					
BOD	☐ BOD-UNIN				☐ Ice					
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice					
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY				☐ Ice					
Macroinvertebrates	☒ MI-FW-QLDC				☒ Formalin					
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ QPCR				☐ Ice					
Periphyton	☐ ALGAE-ID				☐ Ice					
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH				☐ Ice ☐ Other					

Notes: <u>@ 1100</u>	Place Label Here (If Available)
Signature: <u>Ch S</u>	Date: <u>4-26-2016</u>

Field Parameters Entered into LIMS: _____ (Initials/Date) _____
Date Migrated to STORET: _____ (Initials/Date) _____
Field Parameters QC in LIMS: _____ (Initials/Date) _____
Field Sheets Scanned/Saved: CK 5-4-2016 (Initials/Date)

**Florida Department of Environmental Protection
Central Laboratory Submittal Form**

Customer: WQAP

Requester: Chris Green

Project ID: SMP

Collected By: Chris Green / Colby Marshall

Field Report Prepared By: C. Marshall

Sampling Agency: 8034

Location	Field ID	Latitude	Longitude	Collection (comp begin or grab)	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	Sample Depth	Sp. Conductance	Composite end	Bottle Group(s)
				Comp Grab	Temp (C)	Salinity (ppt)	pH	mg/L	Date	
Little Alapaha River @ CO Rd 148	GITLHR0016	30.55345	-82.99496	☒ Comp ☐ Grab	Fresh	19.5	4.0	7.4	80	A
STORET #	GITLHR0016									
Location	Little Alapaha River @ CO Rd 148									
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STORET #	GITLHR0017									
Location	Little Alapaha River @ CO Rd 148									

DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet

SAMPLE ID GITLHR0016 ORG ID 21 FULTON LATITUDE 30.55345
 COUNTY Hamilton STORET # GITLHR0016 LONGITUDE -82.92446
 ATE 4/26/16 TIME 1100 SAMPLING AGENCY 8034
 SITE NAME Little Alapaha River @ CO 20148
 FIELD ID/NAME GITLHR0016 RECEIVING BODY OF WATER Alapaha River

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>10</u> Silviculture <u>50</u> Field/Pasture <u>30</u> Agricultural <u>10</u> Residential <u> </u> Commercial <u> </u> Industry <u> </u> Other (Specify) <u> </u>								Landscape Development Intensity Index (LDI) <u> </u>	
Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy Local Watershed NPS Pollution: ☒ No evidence ☐ Slight ☐ Moderate ☐ Heavy								Typical Width (m) Depth (m)/Velocity (m/sec) Transect <u>0.1</u> <u>0.2</u> <u>6</u> m wide <u>0.3</u> m/s <u>0.5</u> m/s <u>0.2</u> m/s <u>0.3</u> m deep <u>0.5</u> m deep <u>0.3</u> m deep	
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>6m</u> Right Bank: <u>718</u>				Hydrologic Modification Score (per FT 3101) <u> </u>				Artificially Impounded ☐ Yes ☒ No	
High Water Mark: <u>1.5m</u> + <u>0.5</u> = <u>2m</u> (m) (above present water level) (present depth) (above bed)				Artificially Channelized: ☒ No ☐ Some recovery ☐ Mostly recovered, more sinuous ☐ Recent, severe				Canopy Cover % ☐ Open ☐ Lightly Shaded (11-45%) ☒ Heavily Shaded ☐ Moderate Shaded (46-80%)	

SEDIMENT / SUBSTRATE

Sediment Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse	Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify): <u> </u>	Smothering of Substrates Sand Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐ Silt Smothering: None ☐ Slight ☐ Moderate ☐ Severe ☐ Algae Smothering: None ☐ Slight ☐ Moderate ☐ Severe ☐
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SUBSTRATE TYPE

Assessment Tool: ☐ SCI ☐ RPS ☒ LVS

☐ LCI ☐ BioRecon

	% Coverage	INVERT # Times Sampled	PERI # Times Sampled
Woody Debris (Snags)	<u>0.8</u>	<u>46</u>	<u> </u>
Undercut Banks / Roots	<u>0.3</u>	<u>5</u>	<u> </u>
Leaf Packs or Mat	<u>1.5</u>	<u>7</u>	<u> </u>
Aquatic Vegetation	<u> </u>	<u> </u>	<u> </u>
Rock or Shell Rubble	<u>0.3</u>	<u>2</u>	<u> </u>
Sand	<u>97.1</u>	<u>5</u>	<u> </u>
Mud / Muck / Silt	<u>97.1</u>	<u> </u>	<u> </u>
Other	<u> </u>	<u> </u>	<u> </u>
Other	<u> </u>	<u> </u>	<u> </u>

WATER QUALITY

	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)
Top:	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u>0.4</u>
Mid:	<u>0.25</u>	<u>19.5</u>	<u>4.0</u>	<u>7.4</u>	<u>80</u>	<u>57</u>	<u>0.03</u>	<u> </u>
Bottom:	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Meter ID:	<u>600 XLM #12</u>							<u>0.5</u>

Water Odors Normal ☒ Petroleum ☐
 Sewage ☐ Chemical ☐ Other ☐

Water Sample Taken? ☒ Yes ☐ No
 Sample Preserved? ☒ Yes ☐ No
 Lot Number: 5259020 Exp: 9/16

Algae Sample Taken? ☐ Yes ☒ No
 Sample Preserved? ☐ Yes ☐ No
 Lot Number: Exp:

Water Surface Oils Normal ☒ Sheen ☐
 Globbs ☐ Slick ☐ Other ☐

Color Tannic ☐ Green (Algae) ☐
 Clear ☐ Other (Specify)

Clarity Clear ☐ Slightly Turbid ☒
 Turbid ☐ Opaque ☐

ABUNDANCE

	Not Obs.	Rare	Common	Abundant
Periphyton:	☒	☐	☐	☐
Fish:	☐	☐	☒	☐
Aquatic Plants:	☒	☐	☐	☐
Iron/Sulfur Bacteria:	☒	☐	☐	☐

System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify)

AMBIENT FIELD CONDITIONS / NOTES:

PVC outfall from raw crop farm at 50-60 m transect -
☒ The antecedent hydrologic conditions have been met to my best knowledge.

SAMPLING TEAM

Chris Green / Colby Marshall

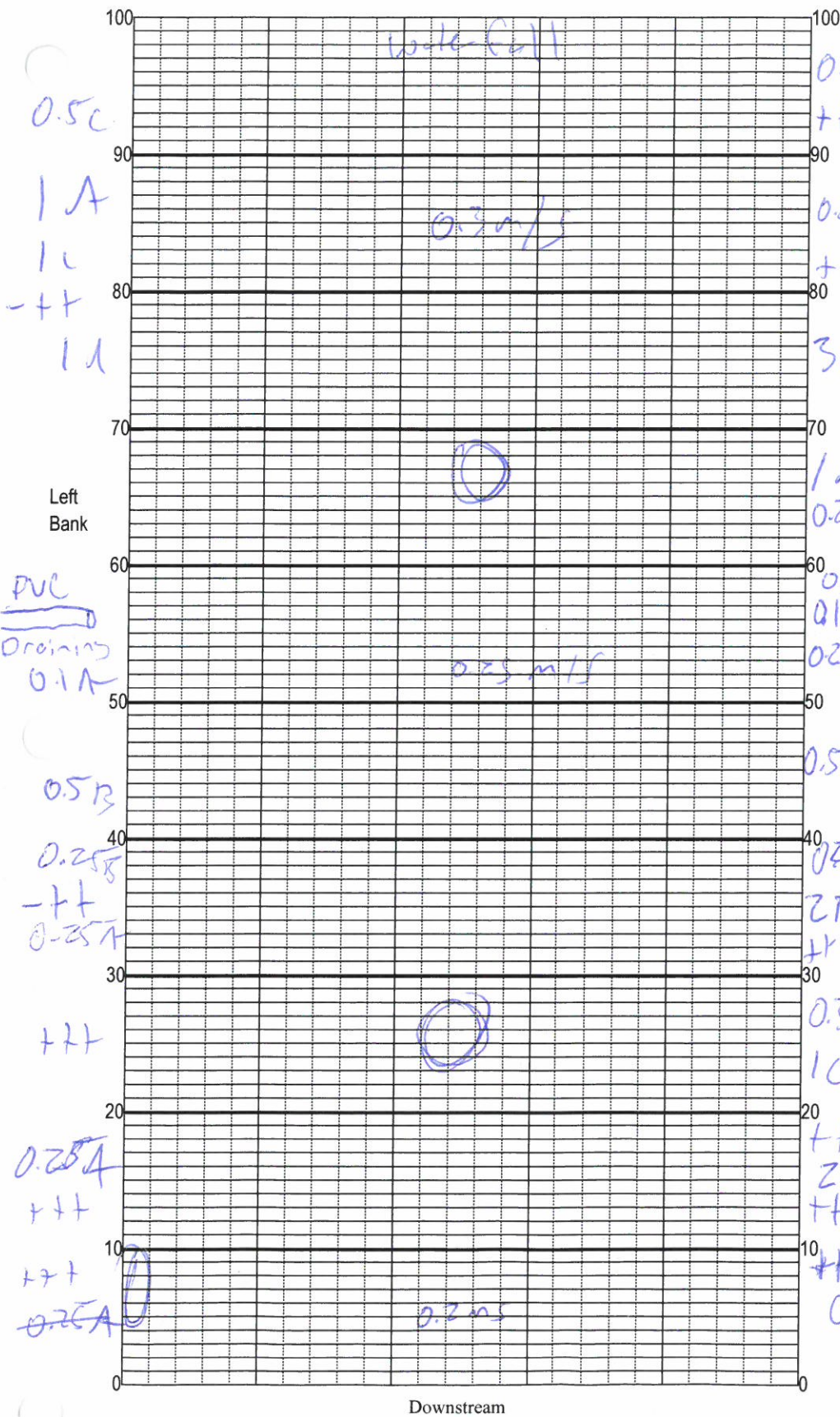
SIGNATURE:

Chris Green

DATE:

4-26-2016

DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet



Location: Little Alapaha River
 Date: 4/26/16
 Sampler: Marshall/Green

100 m: Latitude _____
 Longitude _____
 0 m: Latitude _____
 Longitude _____

Substrates: Code key, draw proportionate habitat abundance.		%
☒ A	Snags	0.8
☒ B	Roots/undercut banks	0.3
☒ C	Leaf Packs (or mats)	1.5
☒ D	Aquatic Macrophytes	_____
☒ R	Rock	0.3
☐	_____	_____
☒ P	Pools	total # observed = 3 # range expected = 12

Average width 6 m
 Average depth 0.5 m

Velocity measured at 50 meter mark.

WQ & chemistry taken at 0 meter mark.

Habitat Smothering: slight to none
 Note areas (on map) where sand or silt is smothering substrates, limiting habitability.

Bank Stability: ++ ++
 Note areas (on map) with unstable, eroding banks.

Riparian Buffer Width: 6m 7/8
 Note areas (on map) where natural vegetation is altered or eliminated.

Plants observed / other notes:

A B C R

Length of grid represents 100 m of stream (not linear meters).
 (Horizontal scale is double vertical scale, draw proportionately).

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: <u>GITLHROO16</u>					County: <u>Hamilton</u>		Date: <u>4-26-2016</u>		Investigators: <u>Colby Marshall</u>	
Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	STORET Station Number: <u>GITLHROO16</u>
0	1	N			60	1	N			Secchi depth <u>0.4</u> Estimated?
	2					2				
	3					3				
	4					4				
	5			87		5			87	
	6					6				
	7					7				
	8					8				
	9					9				
10	1				70	1				# points ranked 4-6 total points assessed % points ranked 4-6
	2					2				
	3					3				
	4					4				
	5			93		5			91	
	6					6				
	7					7				
	8					8				
	9					9				
20	1				80	1				Check accompanying data collected at same site/date. Algal mat sample Linear Veg Survey Habitat Assessment SCI/Biorecon Water sample RQ-
	2					2				
	3					3				
	4					4				
	5			92		5			94	
	6					6				
	7					7				
	8					8				
	9					9				
30	1				90	1				Algal Thickness Rank
	2					2				
	3					3				
	4					4				
	5			94		5			93	
	6					6				
	7					7				
	8					8				
	9					9				
40	1				100	1				N rough, no algae, slimy, algae up to 1mm 3 >1mm - 6mm 4 >6mm - 20mm 5 >20mm - 10 cm 6 >10 cm
	2					2				
	3					3				
	4					4				
	5			92		5			93	
	6					6				
	7					7				
	8					8				
	9					9				
50	1					1				Record "N" and check "Estimated" for points deeper than the Secchi depth; algae are presumed absent. Check "Estimated" if thickness estimated for deep points which can be seen but not reached. Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank. Record canopy cover as the number of small densiometer quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6. Collect algal mat sample following DEP SOP FS 7240 if the percentage of total sampled points with a thickness rank of 4, 5, or 6 is >20%.
	2					2				
	3					3				
	4					4				
	5			93		5				
	6					6				
	7					7				
	8					8				
	9					9				

DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD SHEET

Waterbody: Little Alapaha River	Date: 4/26/16	County: Hamilton	Storet Number: G17LH20016
Analyst: Colby Marshall	Signature: [Signature]		

Comments: $UV \propto Zm^2$

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m² of taxa present). Note in the boxes below if no dominant are selected, and note total macrophyte abundance rank for each section. Only the most common taxa are listed, so use blank spaces for additional taxa names.

[illegible]

DEP Form FD 9000-5 Stream/River Habitat Assessment Field Sheet

SAMPLING AGENCY: <u>8034</u>		STORET STATION NUMBER: <u>GITCHR20016</u>	DATE (MM/DD/YY): <u>04/26/16</u>	RECEIVING BODY OF WATER: <u>Alapaha River</u>
REMARKS:	COUNTY: <u>Hamilton</u>	LOCATION: <u>Little Alapaha River</u>	FIELD ID/NAME: <u>Little Alapaha River @ Co Rd 148</u>	

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock]	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered
Substrate Diversity <u>17</u>	20 19 18 <u>17</u> 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>3</u>	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent 15 14 13 12 11	6% to 15% major productive habitat 10 9 8 7 6	Less than 5% major productive habitat 5 4 <u>3</u> 2 1
Water Velocity <u>15</u>	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 20 19 18 17 16	Max. observed at typical transect: >0.1 to 0.25 m/sec 0.25 0.21 0.17 0.13 >0.1 15 14 13 12 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 4 3 2 1
Habitat Smothering <u>18</u> ----- Primary Score <u>53</u>	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 18 17 16	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae. 15 14 13 12 11	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 9 8 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 2 1
Secondary Habitat Components	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks.	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered.	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area.	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks.
Artificial Channelization <u>17</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability Right Bank <u>10</u> Left Bank <u>9</u>	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the root zone with few raw, eroded areas. 10 9	Only meets 2 of the 3 requirements for optimal bank stability. 8 7 6	Only meets 1 of the 3 requirements for optimal bank stability. 5 4	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas. 3 2 1
Riparian Buffer Zone Width Right Bank <u>10</u> Left Bank <u>4</u>	Width of vegetation greater than 18 m 10 9	Width of vegetation >12 to 18m 8 7 6	Width of vegetation 6 to 12 m. human activities close to system 5 4	Less than 6 m of buffer zone due to intensive human activities 3 2 1
Riparian Zone Vegetation Quality Right Bank <u>10</u> Left Bank <u>8</u> ----- Secondary Score <u>68</u>	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance. 10 9	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. 8 7 6	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. 5 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). 3 2 1

121 TOTAL SCORE

Date: <u>4/26/16</u>	Analyst: <u>Colby Marshall</u> ^{CG} <u>Chris Green</u>	Signature: <u>[Signature]</u> ^{CG} <u>CK 3</u>
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