DISCHARGES INTO OR WITHIN ONE LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT

All outfalls are either located further than 1 linear mile upstream or outside of the watershed of an impaired stream segment that has been listed for criteria violated, "Bio F" (impaired fish community) and/or "Bio M" (impaired macro invertebrate community), within Category 4a, 4b or 5, and the potential cause is either "NP" (nonpoint source) or "UR" (urban runoff).

STREAM AND OPEN-WATER BUFFER ENCROACHMENTS

Stream Buffers, as defined by O.C.G.A. 12-7-1, are not impacted by this project.

Non-exempt activities shall not be conducted within the 25- or 50-foot undisturbed stream buffers as measured from the point wrested vegetation without first acquiring the necessary variences and permits.

The Contractor is not authorized to enter into stream buffers, except as described in the table below:

Name or Number of Stream or Other Water Body Type	Location of Buffered Streams and State Waters**			Stream Type (Warm/Cold Water)*	Buffer Impacted? (Yes/No)	Buffer Variance Required? (Yes/No)
	Stream Alignment	Begin Station and Offset	End Station and Offset			
PS 1/Big Creek	SR 400/US 19	140+95, LT	142+90, LT	Warm	Yes	No
PS 1/Big Creek	SR 400/US 19	140+35, RT	142+07, RT	Warm	Yes	No
PS 3	SR 400/US 19	128+01, LT	129+74, LT	Warm	No	No
PS 4	SR 400/US 19	129+63, RT	129+91, LT	Warm	No	No
PS 6	SR 400/US 19	135+30, RT	136+23, LT	Warm	No	No
IS 8	SR 400/US 19	198+53, LT	198+74, LT	Warm	No	No
PS 9	SR 400/US 19	206+20, RT	208+38, LT	Warm	No	No
PS 10	SR 400/US 19	211+02, RT	211+73, RT	Warm	No	No
IS 11	SR 400/US 19	215+36, LT	216+11, LT	Warm	No	No
PS 13	SR 400/US 19	232+46, LT	232+96, RT	Warm	No	No
PS 14/Bagley Creek	SR 400/US 19	232+78, RT	239+25, LT	Warm	No	No
IS 15	SR 400/US 19	237+86, LT	238+58, LT	Warm	No	No
PS 17	SR 400/US 19	243+89, LT	248+69, RT	Warm	No	No
PS 19	SR 400/US 19	282+12, RT	283+39, LT	Warm	No	No
PS 20	SR 400/US 19	283+38, LT	287+56, RT	Warm	No	No
PS 21A	SR 400/US 19	293+24, RT	299+34, RT	Warm	No	No
PS 21C	SR 400/US 19	289+47, LT	289+80, LT	Warm	No	No
PS 23	SR 400/US 19	304+67, LT	311+25, LT	Warm	No	No
PS 24B	SR 400/US 19	318+89, LT	321+83, LT	Warm	No	No

(Describe the Allowable activities and/or restrictions within the buffer and approximate location of impacts.)

Unless noted otherwise, utility companies will be submitting the required permits/variances in conjunction with the impacts caused by their activities. If utility impacts are covered by the Department's stream buffer variance, this shall be noted in the buffer-variance-required column.

* Warm water streams have a 25-foot minimum buffer as measured from the wrested vegetation. Cold Water streams have a 50-foot buffer as measured from the wrested vegetation.
** Locations are approximate, a detailed location of stream buffers and authorized work areas are shown on the individual BMP sheets

WATER QUALITY INSPECTING AND SAMPLING PROCEDURES

See Special Provision 167 and other contract documents for the inspecting and sampling procedures.

READY MIX CHUTE WASH DOWN

The washing of ready-mix concrete drums and dump truck bodies used in the delivery of Portland cement concrete is prohibited on this site.

In accordance with Standard Specification 107: Legal Regulations and Responsibility to the Public, only the discharge chute utilized in the delivery of Portland cement concrete may be rinsed free of fresh concrete remains. The Contractor shall excavate a pit outside of State water buffers, at least 25 feet from any storm drain and outside of the travelled way, including shoulders, for a wash-down pit. The pit shall be large enough to store all wash-down water without overtopping. Immediately after the wash-down operations are completed and after the wash-down water has soaked into the ground, the pit shall be filled in, and the ground above it shall be graded to match the elevation of the surrounding areas. Alternate wash-down plans must be approved by the Project Engineer.

Wash-down plans describe procedures that prevent wash-down water from entering streams and rivers. Never dispose of wash-down water down a storm drain. Establish a wash-down pit that includes the following: (1) a location away from any storm drain, stream, or river, (2) access to the vehicle being used for wash down, (3) sufficient volume for wash-down water, and (4) permission to use the area for wash down.

On sites where permission or access to excavate a wash-down pit is unavailable, the Contractor may have to wash-down into a sealable 55-gallon drum or other suitable container and then transport the container to a proper disposal site. For additional information, refer to the Georgia Small Business Environmental Assistance Program's "A Guide for Ready Mix Chute/Hopper Wash-down".

SAMPLING GENERAL NOTES:

Representative sampling may be utilized on this project as explained here. The individual outfall drainage basins along the project corridor have been carefully evaluated and compared on the basis of four characteristics: the type of construction activity, the disturbed acreage, the average slope about the outfall, and the soil erosion index 0-10, 10 being the most erodible soil. The construction activity types are new road on fill, new road in cut, road widening, and maintenance/safety. The disturbed area classes are less than or equal to 1 acre, greater than 1 acre to less than 2 acres, and equal to or greater than 2 acres. The average outfall slope is mild if it is equal to or less than 0.03, and steep if it is greater than 0.03. The soil erosion index is low if it is less than or equal to 5 and high if it is greater than 5. After evaluation of these characteristics as presented in the project's drainage area map, hydrology and hydraulic studies, construction plans, geotechnical soil survey, and erosion sedimentation and pollution control plans, the Department has determined that the representative sampling scheme shown below is valid for the duration of the project. The table shows the groups of similar outfall drainage basins.

The increase in turbidity at the specified locations in the table below will be representative of the alternate outfall drainage basins when similar outfall drainage basins exist. Approved primary and alternate representative sampled features are identified in the table below.

Note: The Total site area is 42.6 acres.											Representative Sampling Scheme				
SAMPLING INFORMATION											OUTFALL CHARACTERISTICS				
Primary Sampled Feature	Location (Station and Offset)	Name of Receiving Water	Applicable Construction Stage for Sampling	Sampling Type (Outfall or Receiving water)	Drainage Area for receiving water (mi2)	Upstream Disturbed Area (acres)	Warm or Cold Water Stream	Appendix B NTU Value (Outfall Sampling only)	Allowable NTU Increase (Receiving water sampling only)	Location Description	Construction Activity	Disturbed Area (acres)	Average Outfall Slope (Rise/Run)	Soil Erosion Index	Represented Outfall Drainage Basins
C Up	129+80, 140 ft LT	Big Creek	All	Receiving Water	42.2	N/A	Warm	N/A	25	Upstream	Road Widening	2.15	0.0082	Low	N/A
C Dn	129+77, 155 ft RT	Big Creek	All	Receiving Water	42.2	2.15	Warm	N/A	25	Downstream	Road Widening	2.15	1.0082	Low	N/A
D	134+76, 91.5 ft RT	Big Creek	All	Outfall	42.2	0.73	Warm	100	N/A	End of Pipe	Road Widening	0.73	0.0123	Low	A,B,F,G,H
E	138+50, 108 ft RT	Big Creek	All	Outfall	42.2	0.84	Warm	100	N/A	End of Pipe	Road Widening	0.84	0.0478	Low	N/A
I	157+82, 120 ft LT	Big Creek	All	Outfall	42.2	2.66	Warm	100	N/A	End of Pipe	Road Widening	2.66	0.0453	Low	N/A
J	175+30, 95 ft, RT	Bagley Creek	All	Outfall	2.42	1.04	Warm	50	N/A	End of Pipe	Road Widening	1.04	0.0199	Low	N/A
R UP	239+21, 202 ft LT	Bagley Creek	All	Receiving Water	2.42	N/A	Warm	N/A	25	Upstream, 10' x 8'	Road Widening	1.46	0.0484	Low	O,W
R Dn	235+88, 148 ft, RT	Bagley Creek	All	Receiving Water	2.42	1.46	Warm	N/A	25	.	Road Widening	1.46	1.0484	Low	O,W
S	241+16, 93 ft RT	Bagley Creek	All	Outfall	2.42	0.59	Warm	50	N/A	End of Pipe	Road Widening	0.59	0.0337	Low	K,Q, T, U, V, AA, CC
Z	281+36, 95 ft LT	Bagley Creek	All	Outfall	2.42	0.73	Warm	50	N/A	End of Pipe	Road Widening	0.73	0.0048	Low	I,M,N,P,X,Y ,BB,DD,EE,F F,GG,HH

The primary sampled features specified should be used as the initial sampling locations. An alternate sampled feature may be used if additional sampling is required or to replace a primary sampled feature that is no longer located within the active phase of construction.

INFRASTRUCTURE CONSULTING & ENGINEERING

NTS

REVISION DATES
10/26/2015

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: INNOVATIVE DELIVERY
ESPCP GENERAL NOTES

DRAWING No. 51A-002