

STREAM/POND BUFFER ENCROACHMENT

Stream Buffers are Impacted by this project.

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			
Stream 1	SR 96	Sta 1094+55, Lt	Sta 1093+91, Rt	Warm	Yes	No
Roadway construction, placement of fill slopes, culvert extension and installation of erosion control measures. Proposed impacts to the buffer are exempt under both the roadway drainage structure and drainage structure exemptions.						
Stream 2a	SR 96	Sta 1128+80, Rt	Sta 1128+80, Rt	Warm	Yes	No
Roadway construction, placement of fill slopes, culvert extension and installation of erosion control measures. Proposed impacts to the buffer are exempt under both the roadway drainage structure and drainage structure exemptions.						

* Warm water streams have a 25-foot minimum buffer as measured from the wooded vegetation. Cold Water streams have a 50-foot buffer as measured from the wooded vegetation.

** Locations are approximate, a detailed location of stream buffers and authorized work areas are shown on the individual BMP sheets.

MONITORING SAMPLING METHODS & PROCEDURES

See Special Provision 167 and other contract documents for Monitoring Sampling Methods and 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".

MONITORING GENERAL NOTES:

The total project site size is 94.87 acres. Representative sampling may be utilized on this project.

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 representative sampling is valid for the duration of the project. The table below 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 drainage basins when similar outfall drainage basins exist. Approved primary and alternate representative monitored features are identified in the table below.

Monitored Feature	Primary or Alternate Feature	Location (Sta. and offset)	Name of Receiving water	Applicable construction stage for monitoring	Sampling Type (Outfall or Receiving Water)	Drainage Area for the receiving water (sq. mi)	Upstream Disturbed Area (acres)	Total Site Size (Acres)	Warm or Cold water Stream	Appendix B NTU value (Outfall Monitoring Only)	Allowable NTU Increase (For Receiving Water)	Location Description	OUTFALL CHARACTERISTICS				
													Construction Activity	Disturbed Area (acres)	Average Outfall Slope (rise/run)	Soil Erosion Index	Alternate (Similar) Outfalls
1.	Primary	Sta. 1055+47 78' Right	Mossy Creek	1, 2 & 3	Outfall	0.060		94.87	Warm	50		Existing Ditch	Road Widening	4.00	0.007	8.0	Sta. 1093+86 Rt (Double 6X7 Box Culvert), Sta. 1115+35 Rt (C-23 36" RCP), Sta. 1185+73 Lt (E-47 42" RCP)
2.	Primary	Sta. 1093+86 98' Right	Stream 1	1, 2 & 3	Outfall	3.50		94.87	Warm	50		DOUBLE 6' X 7' BOX CULVERT	Road Widening	5.40	0.0204	8.0	Sta. 1055+47 Rt (Existing Ditch), Sta. 1115+35 Rt (C-23 36" RCP), Sta. 1185+73 Lt (E-47 42" RCP)
3.	Primary	Sta. 1128+79 113' Right	Beulah Branch (Stream 2A)	1, 2 & 3	Outfall	3.50		94.87	Warm	50		10' X 8' BOX CULVERT	Road Widening	10.92	0.0359	8.0	Sta. 1093+32 Rt (B-22 24" RCP)
4.	Primary	Sta. 1185+73 44' Left	Sauls Branch	1, 2 & 3	Outfall	0.069		94.87	Warm	50		E-47 42" RCP Catch Basin	Road Widening	13.47	0.0200	8.0	Sta. 1055+47 Rt (Existing Ditch), Sta. 1093+86 Rt (Double 6X7 Box Culvert), Sta. 1115+35 Rt (C-23 36" RCP)

(Note that outfall monitoring requires one sample per monitoring event while receiving-water monitoring requires a pair of samples, one sample upstream and one sample downstream, per monitoring event. The italicized example information in the table represents the minimum number of monitored features for representative sampling and is to be replaced with site-specific information. Alternate monitored features are optional. According to the EPD, additional monitoring sites may be required depending on significant changes during the project.)

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



GSWCC LEVEL II Certification #000007807

REVISION DATES

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: PROGRAM DELIVERY
ESPC GENERAL NOTES

SR 96 WIDENING
 SR 96

DRAWING NO.
51-002