

**STREAM AND OPEN-WATER BUFFER ENCROACHMENTS**

Stream Buffers, as defined by O.C.G.A. 12-7-1, 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?	Description of Allowable Activities and/or Restrictions within the Buffer and Approximate Location of Impacts.
	Alignment	Begin Station	Side	End Station	Side				
Open Water 1	SR 347	10000+00.00	Right	100+13.19	Right	Warm	No	No	The contractor shall not enter the stream buffer.
Open Water 2	SR 347	10000+00.00	Left	10013+08.91	Left	Warm	No	No	The contractor shall not enter the stream buffer.
Open Water 3	SR 347	10004+14.88	Right	10011+75.86	Right	Warm	Yes	Yes	
Open Water 5	SR 347	10027+25.22	Left	10037+23.30	Left	Warm	No	No	The contractor shall not enter the stream buffer.
Perennial Stream 6	SR 347	10034+35.62	Left	10037+91.66	Left	Warm	No	No	The contractor shall not enter the stream buffer.
Intermittent Stream 7	SR 347	10037+91.66	Left	10041+08.37	Left	Warm	No	No	The contractor shall not enter the stream buffer.
Intermittent Stream 10	SR 347	10048+49.67	Left	10049+01.39	Left	Warm	No	No	The contractor shall not enter the stream buffer.
Intermittent Stream 11	SR 347	10048+82.73	Left	10050+20.69	Left	Warm	No	No	The contractor shall not enter the stream buffer.
Intermittent Stream 13	SR 347	10114+43.52	Left	10120+58.79	Left	Warm	No	No	The contractor shall not enter the stream buffer.
Intermittent Stream 15	SR 347	10118+34.31	Right	10120+53.22	Right	Warm	No	No	The contractor shall not enter the stream buffer.
Intermittent Stream 16	SR 347	10120+03.59	Right	10121+86.41	Right	Warm	No	No	The contractor shall not enter the stream buffer.
Perennial Stream 17	SR 347	10120+61.42	Left	10122+23.82	Left	Warm	No	No	The contractor shall not enter the stream buffer.
Perennial Stream 14	SR 347	10120+58.79	Left	10122+41.69	Left	Warm	No	No	The contractor shall not enter the stream buffer.
Intermittent Stream 12	CR 602	Beyond Project Limits	Left	Beyond Project Limits	Left	Warm	No	No	The contractor shall not enter the stream buffer.

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

**INSPECTING AND SAMPLING PROCEDURES**

See Special Provision 167 and other contract documents for the Inspecting and Sampling Procedures.

**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 x.xx acres.											Representative Sampling Scheme					
Primary Sampled Feature	Location			Name of Receiving Water	Applicable Construction Stage for Sampling	Sampling Type (outfall or receiving water)	Drainage Area for the Receiving Water (m <sup>2</sup> )	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	Alternate Outfall Drainage Basins
	Station	Offset	Side													
Open Water 1	10000+00.00							Warm								
Open Water 2	10000+00.00							Warm								
Open Water 3	10004+14.88							Warm								
Open Water 5	10027+25.22							Warm								
Perennial Stream 6	10034+35.62							Warm								
Intermittent Stream 7	10037+91.66							Warm								
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Intermittent Stream 15	10118+34.31							Warm								
Intermittent Stream 16	10120+03.59							Warm								
Perennial Stream 17	10120+61.42							Warm								
Perennial Stream 14	10120+58.79							Warm								



**REVISION DATES**


STATE OF GEORGIA  
 DEPARTMENT OF TRANSPORTATION  
 OFFICE: ROADWAY DESIGN  
**ESPCP GENERAL NOTES**  
 GENERAL NOTES

DRAWING No. **51-003**