

SEDIMENT STORAGE

The site has a total disturbed area of 34.00 acres. The following table summarizes the required and available sediment storage for every outfall on this project. The Contractor shall provide and maintain the storage volumes for the BMPs specified in this table.

Outfall ID	Total Drainage area (acres)	Disturbed area (acres)	Required Sediment storage Volume(yd ³)	Total Storage Volume provided (yd ³)	Check Dam (CU.YD.)		Silt Fence Storage Volume Sheet Flow		Sediment Basins	
					# of Devices	Total Volume	LIN. FT.	CU.YDS.	Pond #	Total Volume
SITE 1										
STA 72+63	9.13	3.4	611.71	256.74	37	149.48	308	107.26	N/A	N/A
STA 76+12	6.74	1.8	451.58	151.42	8	16.16	389	135.26	N/A	N/A
STA 98+65	23.15	11	1551.05	5820.81	0	0	16848	5820.81	N/A	N/A
STA 110+15	3.86	0.89	258.62	75.36	3	6.06	200	69.3	N/A	N/A
SUBTOTAL	42.88	17.09								
SITE 2										
STA 14+15	7.06	2.06	473.02	209.89	10	33.4	507	176.5	N/A	N/A
STA 147+53	7.5	1.37	502.50	149.53	13	52.5	279	97.01	N/A	N/A
STA 187+12	15.25	5.7	1021.75	1417.8	40	80.8	3867	1337	N/A	N/A
SUBTOTAL	29.81	9.13								
SITE 3										
STA 229+57	4.3	3.43	288.10	244.72	15	82.7	463	162.04	N/A	N/A
STA 257+16	5.8	3.56	388.60	47.7	30	47.7	0	0	N/A	N/A
STA 270+95	3.7	0.79	247.90	74.53	5	10.1	185	64.43	N/A	N/A
SUBTOTAL	13.8	7.78								
TOTAL	86.49	34								

In order to prevent runoff from bypassing Inlet sediment traps, a temporary sump shall be installed around all Inlet sediment traps that are not located in a low point or an excavated sump. Construct temporary sumps in accordance with Construction Detail D-24C. Temporary sumps shall be installed in a manner that ensures stormwater does not bypass the Inlet. The Contractor may submit alternate temporary containment berm designs to the Project Engineer for approval.

USE OF ALTERNATIVE AND/OR ADDITIONAL BMPs:

No alternative or additional BMPs will be used on this project.

Alternative BMPs are not used on this project. Silt Gates are used on this project as additional BMPs at pipe inlets and are not being used in place of or as a substitute for other conventional BMPs. Temporary check dams are used in ditches to provide in ditches to provide interim stabilization and flow velocity reduction. The stability of the site is maintained with other conventional BMPs as shown on the plans. This ESPCP would be fully compliant with permit requirements if the silt gates were removed and as a result are not considered alternative BMPs when used on this project. The silt gates help to prevent pipe clogging during construction that can result from the ingestion of sediments and other large debris like riprap, sand bags, roadway debris and other construction materials that when combined with sediments easily clog roadway drainage pipes. Sediment stored by silt gates is not included in the required minimum sediment storage volume or shown in the sediment storage table.

All outfalls are either located further than 1/2 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 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?
	Stream Alignment	Begin Station and Offset	Ending Station and Offset			
STREAM #2	SR 24	98+24 LT & RT	99+10 LT & RT	WARM	YES	NO
Construction will consist of the removal and replacement of a bridge.						
STREAM #4	SR 24	186+75 LT & RT	187+60 LT & RT	WARM	YES	NO
Construction will consist of the removal and replacement of a culvert.						

* 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.

7/10/12					