

8.6 Landfill Closure Sequence

Closure activities may be initiated in phases according to the sequence of filling. Partial closure events will occur after a phase or significant portion of the landfill has reached the final grades (waste) indicated on the Drawings. At capacity or once the last remaining active area achieves final grades (waste), closure activities for final closure of the facility will begin. The steps for implementing the closure process are described in the following subsections. The steps are the same for partial closure and final closure.

8.7 Determination of Closure Area

Santee Cooper will determine the location and acreage of areas to be closed. Closure construction will not be initiated until final grades (waste) of an adequate sized area are achieved. The facility will be surveyed periodically to determine the status and estimate the landfill area that has reached final grades. Santee Cooper will determine the number of closure events and size of each closure event for the facility.

For final closure, closure activities shall begin no later than 30 days after the date on which the Class Three Landfill receives the known final receipt of wastes; or if capacity is remaining and there is a reasonable likelihood that the landfill will receive additional wastes, no later than one year after the most recent receipt of wastes. Extensions beyond the one-year deadline for beginning closure may be granted by the Department if the permittee, Santee Cooper demonstrates that the landfill has capacity to receive additional wastes and the permittee has taken and will continue to take all steps necessary to prevent threats to human health and the environment from the unclosed landfill.

8.8 Notification of Intent to Initiate Closure

Once Santee Cooper has determined that an area will be closed, a Notice of Intent shall be submitted to the Department to include a schedule outlining the planned closure activities. A description of the area to be closed, acreage, and schedule of the closure activities will be provided.

8.9 Closure Schedule

Santee Cooper will prepare a schedule for closure activities once an area is determined to be closed. Closure of the subject area must be completed within 180 days following of beginning closure activities. Extensions of the closure event period may be granted by the Department if the permittee, Santee Cooper demonstrates that closure will take longer than 180 days and they have taken and will continue to take all steps to prevent threats to human health and the environment from the unclosed landfill

8.10 Construction Contract Documents

Construction plans and documents will be prepared for each respective closure event. Construction plans and specifications will be used for bidding and construction of the project. Only pre-qualified contractors will be selected to bid on the closure project(s). Quantity estimates of soils and materials required for the project will be prepared and a cost estimate will be generated for the closure event and for each successive closure event, res active q p a

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**TABLE 8-3
CLOSURE COST ESTIMATE
AREA 1B
CROSS STATION
CLASS THREE LANDFILL**

Item Number	Description	Estimated Quantity	Unit	Unit Price	Extended Total
1	Bonds, Insurance, Mobilization and Demobilization	5%	LS	\$ 558,133	\$ 558,133
2	Temporary Stormwater Water Management	64.6	AC	\$ 2,000.00	\$ 129,200
3	Strip and Fine Grade Ex. Waste/Intermediate Cover	312,664	SY	\$ 1.25	\$ 390,830
4	18-inch Low Permeability 1x10-5 Soil	312,664	SY	\$ 9.00	\$ 2,813,976
5	LLDPE Flexible Membrane Liner	312,664	SY	\$ 4.00	\$ 1,250,656
6	Geocomposite Drainage Net	312,664	SY	\$ 4.25	\$ 1,328,822
7	24-Inch Drainage and Erosion Layer	312,664	SY	\$ 8.00	\$ 2,501,312
8	6-inch Perforated PE Pipe and Trench	12,000	LF	\$ 15.00	\$ 180,000
9	3'x5'x5' Concrete Drop Inlet	4	EA	\$ 5,000.00	\$ 20,000
10	24" HDPE Downdrain Pipe	2,000	LF	\$ 50.00	\$ 100,000
11	Waste Excavation and Disposal for Downdrain Pipes	6,000	CY	\$ 8.00	\$ 48,000
12	Structural Fill for Downdrain Pipes	6,000	CY	\$ 8.00	\$ 48,000
13	Downdrain Headwall	4	EA	\$ 5,000.00	\$ 20,000
14	Downdrain Outlet Structure Retention	4	EA	\$ 3,500.00	\$ 14,000
15	Gravel Access Road	4,600	SY	\$ 25.00	\$ 115,000
16	Seeding & Mulching	64.6	AC	\$ 2,000.00	\$ 129,200
17	Erosion Control Mattin	312,664	SY	\$ 2.50	\$ 781,660
18	Miscellaneous Work & Cleanup	64.6	AC	\$ 5,000.00	\$ 323,000
19	Engineering and CQA Services	64.6	AC	\$ 15,000.00	\$ 969,000
	Subtotal	5%	LS	586,039	586,039
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