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# APPENDIX 6.1.5-1 WCS CLOSURE COST ESTIMATE

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## 1.0 CLOSURE COST ESTIMATE

The closure cost estimate provides quantities and costs associated with decontamination and decommissioning of the CWF and FWF buildings, structures and appurtenances. Included is the placement of potentially contaminated building waste into the appropriate disposal unit and installation of the final remaining sections of the cover systems. The activities and associated quantities are as specified in Appendix 6.1.1-1.

### 1.1 What is in the Closure Cost Estimate

Confidential Annex 5 of the License Amendment (LA) contains a detailed explanation of the estimate and how it was developed. This Annex contains the data that constitutes the Closure Cost Estimate. Included are the costs for demolition of the buildings, roads, tanks, utilities and other associated activities that are specific to the closing the overall site. The activities included are those that are required to place all remaining waste into the disposal units, place the cover over the disposal units and re-grade the site to achieve a uniform slope and contour that will prevent the need for continued active maintenance.

### 1.2 What Is NOT In the Closure Cost Estimate

The Closure Cost Estimate does not include the costs for development of initial facilities, annual operations, or post closure activities (See Confidential Annexes and Appendices listed in Table 1).

## 2.0 COST ESTIMATE STRUCTURE AND COMPONENTS

The cost estimate is made up of the following five cost documents:

- Explanation of the estimate (Confidential Annex 5)
- Cost Estimate Index (Confidential Annex 5, Attachment A)
- Closure Construction Drawings (Appendix 3.0-2)
- Take-Off Quantity Calculations (Confidential Annex 5, Attachment B)
- Other Cost References (Confidential Annex 5, Attachment C)

These documents are supported by these computer packages: Microstation® V8 and InRoads®; copies of which have been provided to TCEQ.

### 2.1 Explanation of the Estimate

The estimate explanation describes the overall structure and content of the cost estimate and walks through the various components that make up the estimate. It identifies the linkages between the cost estimate documents, the sources or methods used to calculate quantities, and the sources of rate information. It is a roadmap for how to make use of the other documents comprising the cost estimate; of which can be used to determine the completeness and accuracy of the cost estimate being addressed.

## **2.2 Cost Estimate Index**

The index is both a summary of the cost estimate and a matrix reference sheet that shows where applicable design, quantity, and rate information is provided in the other documents that make up the cost estimate. The index lists the total and costs by type (labor, material, subcontract, etc.) for each item that makes up the cost estimate. It sums costs by type and presents the subtotal estimated cost for all items in the estimate. The application of appropriate overheads, profit, contingency, and escalation is also documented at the end of the index.

The index is organized by assigning each component (listed in the description column) a unique task item number. This number is used as a means to clearly represent the task item as it associates to a drawing in the drawing set, a take-off quantity in the take-off quantity calculations, and a unit cost.

## **2.3 Take-Off Quantity Calculations**

Take-off quantities are calculated by written quantities using dimensions directly from a construction set of drawings. Hand written calculations of quantities are developed by use of the dimensions provided on the drawing set or calculated in a spreadsheet. Where dimensions were required for cost estimate purposes the dimensions have been provided on the drawings.