TVA Calculation Package

Title   JOF- DuPont Dredge Cell - Geotechnical Report for Slope Stability Analysis

Location Description: *(Optional)*	JOF-DuPont Dredge Cell, New Johnsonville, Tennessee	**Total Pages:** *(including appendices & attachments)* N/A

Calculation ID *(All parts required to form a unique ID)*:

Org Code	**Location/ Plant Code**	**Branch Code**	**Alphanumeric Part =** Discipline Code (1) + Type Code (1) + "X" + Unit Field (3) + Sys Code (3) + Year (4) + Sequence No. (4)
FPG	JOF	FES	CDX00000020100007

NOTE: When referencing the calculation ID, include all parts without spaces or dashes between them.

Unit(s), Spill gate(s), or Voltages (PSO): 000	**Key Nouns (For CTS/CCRIS):** CTS

Applicable Design Document(s):	**Rev**	**RIMS/EDMS Accession Number** *(Optional)*
	R0	
	R	
UNID System(s):	R	
	R	

	R0	**R**	**R**	**R**
DCN, PCN, NA	NA-WP			
Prepared: Sign➔	*[signature]*			
Print Name	Shaikh Rahman, PE			
Checked: Sign➔	*[signature]*			
Print Name	Patrick Kiser, PE			
	These calculations contain unverified assumption(s) that must be verified later? ☐ Yes ☒ No			
	These calculations contain special requirements and/or limiting conditions? ☐ Yes ☒ No			
Approved: Sign➔				
Print Name	Patrick Kiser, PE			
Approval Date				
	These calculations contain a design output attachment? ☐ Yes ☒ No			
Revision Applicability	☐ Entire calc	☐ Entire calc ☐ Selected pgs	☐ Entire calc ☐ Selected pgs	☐ Entire calc ☐ Selected pgs
	Computer output Microfiche generated? ☐ Yes ☒ No Number: _____			

Purpose of the Calculation: Evaluation of slope stability for the Phase I and II Dikes around the DuPont Road Dredge Cell

Abstract: The geotechnical report includes discussions of general site conditions; review of historical documentation; subsurface conditions; results of laboratory testing; analysis methodology, assumptions, and results; conclusions; and recommendations for the long-term slope stability of the Phase I & II dikes.

☒ Electronically file and return calculation to Calculation Library.

☐ Electronically file and return calculation _____   Address: _____

TVA 20156 [8-2007]

TVA Calculation Coversheet
CTS Input Form

Preparer	Preparer Login ID	Date
Checker	Checker Login ID	Date

Update Code: ☐ Add ☐ Change ☐ Delete
☐ Rename ☐ Supersede ☐ Duplicate ☐ Verify

The following section applies if a calculation is being renamed, superseded, or has a duplicate.

	Org Code	Plant	Branch	Number	Cur Rev	New Rev
Current Calc ID:						

The following section applies to all calculations.

	Org Code	Plant	Branch	Number		
Calc ID:	FPG	JOF	FES	CDX00000020100007	0	0

Firm: *(TVA or Contractor)* _____

Cross-References

A/C/D	Xref Code	Type	Org Code	Plant	Branch	Number	Rev

Calculation Identifier: FPGJOFFESCDX00000020100007

Title JOF- DuPont Dredge Cell - Geotechnical Report for Slope Stability Analyses

Revision No.	Description of Revision

TVA Computer File Storage Information Sheet

Calculation Identifier: FPGJOFFESCDX00000020100007   **Rev.** 0   **Plant:** JOF

Subject: The geotechnical report addresses slope stability analyses and provides recommendation to improve factor of safety of the dredge cell perimeter dike. GeoSlope 7.14 software was used for the slope stability analyses.

Software Name: GeoStudio 7.14	**Revision Level:** N/A
Vendor Name: GEO-SLOPE, International Ltd.	
Address: Calgary, Alberta, Canada	

Executable Files

☒ No TVA developed **executable files** were used in this calculation.

Comments:

☐ TVA developed **executable files** used in this calculation have been stored electronically and sufficient identifying information is provided below for each executable file. *(Any retrieved file requires re-verification of its contents before use.)*

Input Files

☐ Electronic storage of the **input files** for this calculation is not required.

Comments:

☒ **Input files** for this calculation have been stored electronically and sufficient identifying information is provided below for each input file. *(Any retrieved file requires re-verification of its contents before use.)*

TVA Calculation Table of Contents

Calculation Identifier: FPGJOFFESCDX00000020100007

Revision: 0

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	Calculation Reference - Report of Geotechnical Exploration and Evaluation of Slope Stability for the DuPont Road Dredge Cell of Johnsonville Fossil Plant, submitted by Stantec on April 19, 2010 (JOF-GE-100419)	