

DATA REPORT Rev. 1
GEOTECHNICAL EXPLORATION AND TESTING

| Rev. 1

VIRGINIA ELECTRIC AND POWER COMPANY
NORTH ANNA NUCLEAR POWER STATION
MINERAL, LOUISA COUNTY, VIRGINIA

| Rev. 1

September 28, 2007

| Rev. 1

VOLUME 4 - APPENDIX F

Prepared For:

Virginia Electric and Power Company
Richmond, Virginia

| Rev. 1

Prepared By:

MACTEC Engineering and Consulting, Inc.
Raleigh, North Carolina

MACTEC Project No. 6468-06-1472

GEOTECHNICAL LABORATORY TEST ASSIGNMENT

Page 1 of 28

Date Revised 11/22/2006 Job Name North Anna COL Job No. 25161 Requested By John Davie

SAMPLE LOCATION				PHYSICAL PROPERTIES								STRENGTH TESTS							COM- PACTION		CONSOLIDATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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								Sieve Only	Sieve + Hydrometer																			
B-912	Jar	9.1	1	x					x																			
B-912	Jar	14.1	3	x				x																				
B-912	Jar	19.1	4	x				x																				
B-912	Core(1)	36.8	R-3		x																							
B-912	Core	46.8	R-5		x																							
B-912	Core	61.8	R-8		x																							
B-912	Core	81.8	R-12		x																							
B-912	Core	111.8	R-18		x																							
B-912	Core	141.8	R-24		x																							

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B-918	Jar	3.2	2	x		x			x																			
B-918	Jar	5.1	3	x				x		x																		
B-918	Jar	9.3	4	x					x																			
B-918	Jar	13.2	6	x				x																				
B-918	Jar	22.4	8	x				x																				
B-918	Core(1)	26.3	R-1		x																							
B-918	Core	35.1	R-4		x																							
B-918	Core	45.2	R-6		x																							
B-918	Core	60.2	R-9		x																							
B-918	Core	90.1	R-16		x																							
B-918	Core	120.1	R-22		x																							

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SAMPLE LOCATION				PHYSICAL PROPERTIES										STRENGTH TESTS								COM-PACTION		CONSOLIDATION			
Boring No.	Sample Type (Tube Sample Length)	Top of Sample/Core Run Depth, Ft	Sample/Run Number	Moisture Content	Unit Weight	Specific Gravity	Atterberg Limits	Grain Size Analysis		Chemical Analysis (pH, chloride, sulphate)	Organic Content			Unconsolidated-Undrained Triaxial	Consolidated-Undrained Triaxial (3-stage w/pore-pressure meas.)	Unconfined Compression (Soil)	Confining Pressures (psi)	Direct Shear	ISRC (Assume $K_0 = 0.5$)	Unconfined Compression (rock)	Unconfined Compression (rock) w/stress-strain measurements	Standard (A, B, C, D)	Modified (A, B, C, D)	CBR (ASTM D 1883)	Note: Use the loading sequence (in ksf): 0.5, 1, 2, 4, 8, 4, 2, 4, 8, 16, 32, 64, 16, 4, 1.		
								Sieve Only	Sieve + Hydrometer																		
B-929A	(T-21")	15	UD-1	x					x					x		6,12,24 psi											
B-929A	(T-13")	25	UD-3																								
B-929A	(T-16")	30	UD-4	x					x					x		12,24,48 psi											
B-929A	(T-19")	35	UD-5	x					x										x								
B-929A	(T-19")	40	UD-6	x					x					x		15,30,45 psi											
B-929A	(T-8")	45	PB-1																								
B-929A	(T-9")	50	PB-2																								

* TEST RESULTS TO BE SUBMITTED IN A SUPPLEMENTAL REPORT. DSC
1-22-07

Contact John Davie of Bechtel if there are any questions: Phone (301) 228-7647; e-mail JDAVIE@BECHTEL.COM.

(1) For rock core testing, MACTEC will select suitable (and typical) section of the core run for testing, and note actual depth tested.

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[illegible]

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John Davie

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