



# APPENDIX G

**Boring B-1003 Core Photos**

**Photos not included, available upon request**



## **APPENDIX H (NOT PREVIOUSLY SUBMITTED)**

November 16, 2007

Carbonate Content Test Results  
Additional Index Test Results





## Determination of Carbonate Content of Soils

Project No.: 6141-05-0277  
 Project Name: Vogtle ESP

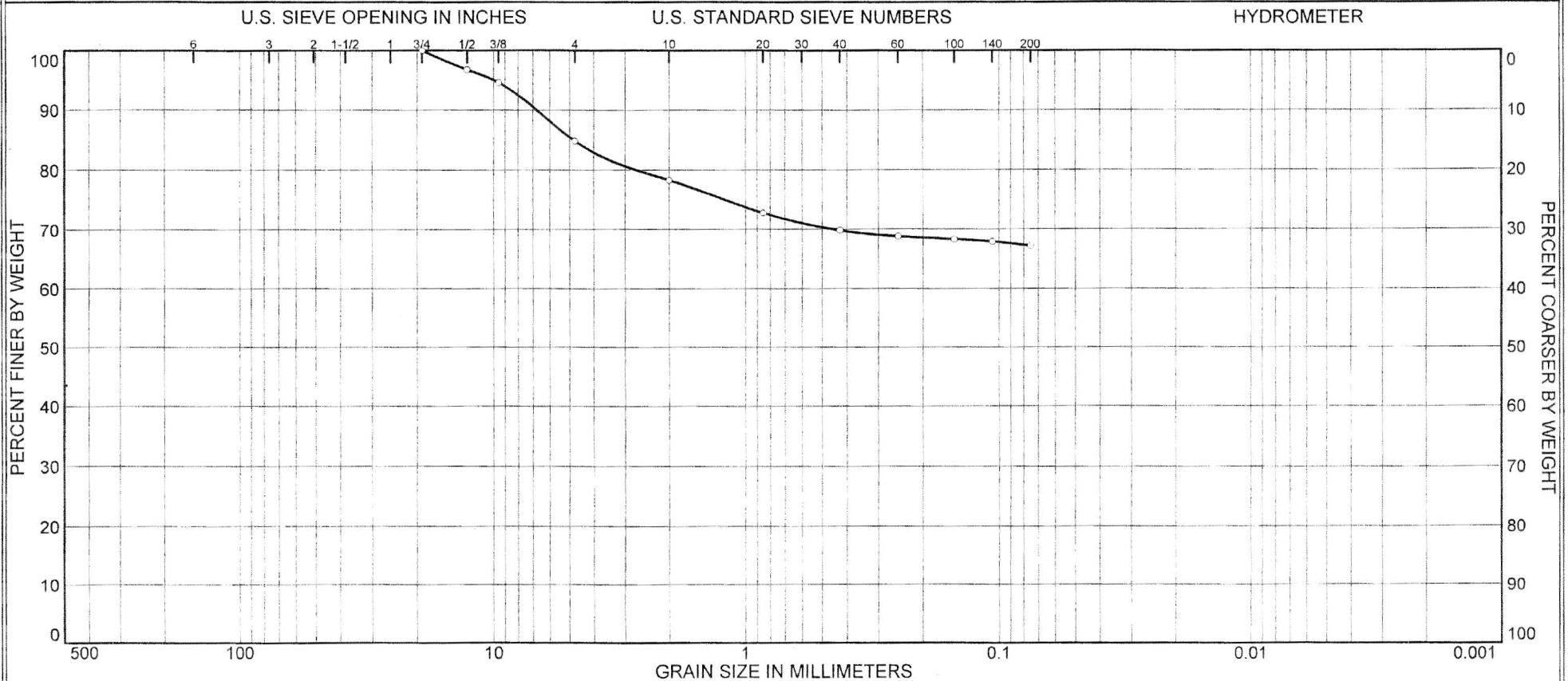
Tested By: BM  
 Test Date: 10/18/2007-10/30/07

Reviewed By: JW  
 Review Date: 11/1/2007

Sample Information				ASTM D 4373-02		ASTM D 3042-03
Boring No.	Sample No.	Depth (ft.)	Lab ID No.	Pre-washed Calcite Equivalent (%)	Post-washed Calcite Equivalent (%)	Soluble Material (%)
B-1002	UD-1	92.0	4390	21	17	NA*
B-1002	UD-5	133.5	4394	81	NA*	97
B-1003	DCS-18	96.0	8064	60	72	NA*
B-1003	DCS-27	123.7	8065	NA*	NA*	98
B-1003	DCS-31	145.7	8066	83	79	NA*
B-1004	UD-3	163.5	4450	52	76	NA*
B-1004	SPT-34&35	134-140	8068 & 8069	24	NA*	NA*
B-1005	SPT-44	213.5	8074	47	23	NA*
B-1004	UD-5	188.5	4452	80	91	NA*
B-1010	SPT-27	98.5	8076	18	15	NA*

\*NA: Not Assigned.

# Particle Size Distribution Report

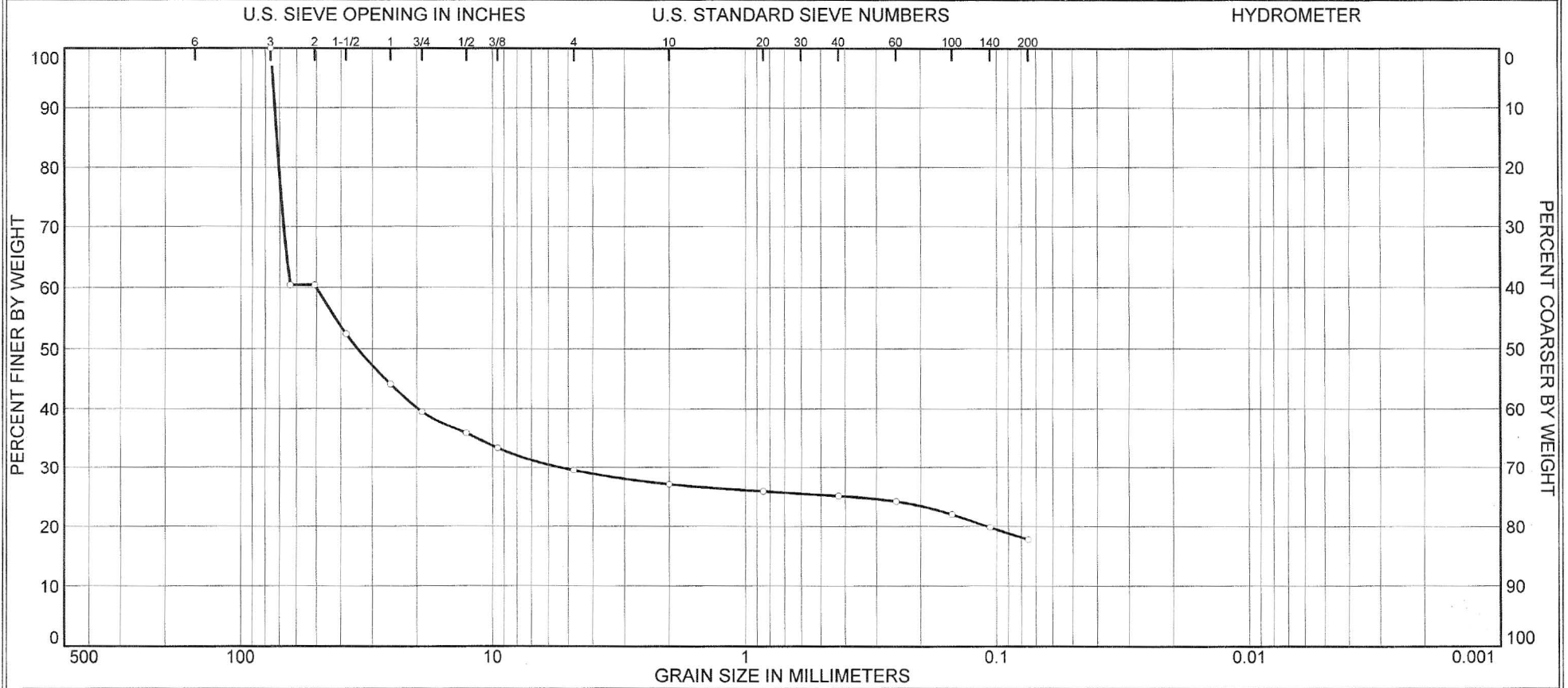


% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	15.2	6.5	8.5	2.6	67.2	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
B-1002	UD-1	92.0/130.0	10/18/07	MH	Sandy Elastic silt (MH)		83	50

Client Southern Nuclear Operating Company	<b>MACTEC ENGINEERING AND CONSULTING, INC.</b>	Tested by: EH      Reviewed by: HJ
Project Vogtle ESP		
Project No. 6141-05-0227      Lab no. 4390		

# Particle Size Distribution Report

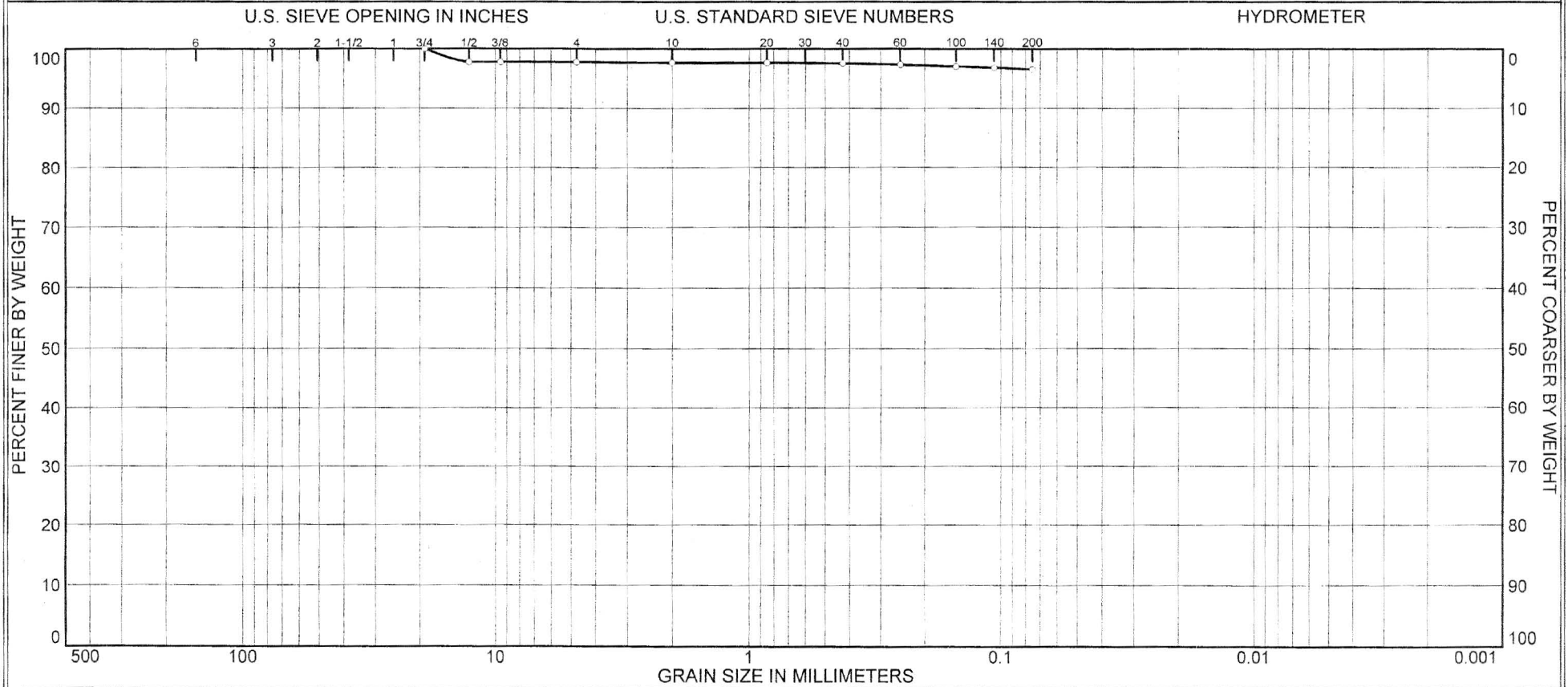


% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	60.5	10.0	2.4	2.0	7.3	17.8	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
B-1002	UD-5	133.5/88.5	10/16/07		Not Applicable		40	26
	Before Acid							

Client Southern Nuclear Operating Company	<b>MACTEC ENGINEERING AND CONSULTING, INC.</b>	Tested by: EH    Reviewed by: HJ
Project Vogtle ESP		
Project No. 6141-05-0227      Lab no. 4394		

# Particle Size Distribution Report

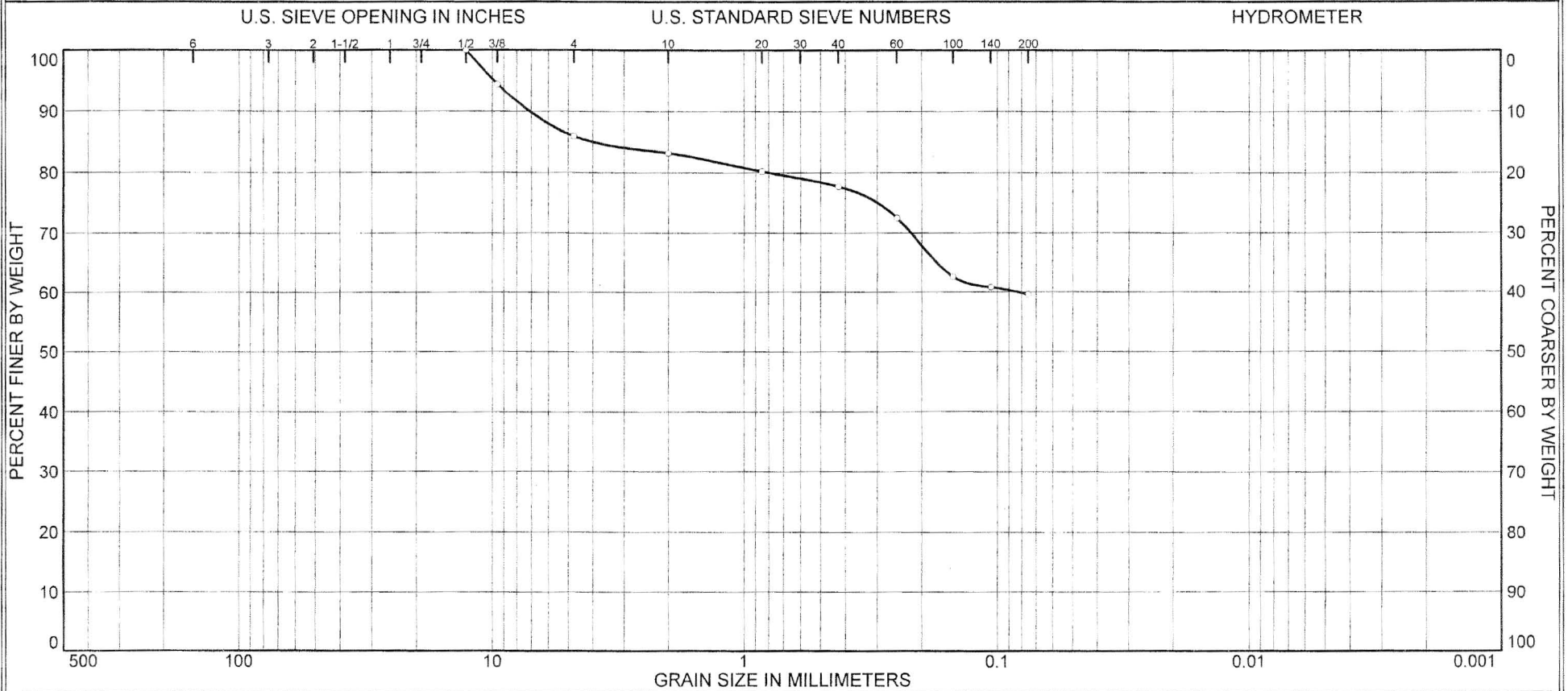


% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	2.2	0.1	0.1	1.0	96.6	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
B-1002	UD-5 After Acid	133.5/88.5	10/30/07		Not Applicable			

Client Southern Nuclear Operating Company	<b>MACTEC ENGINEERING AND CONSULTING, INC.</b>	Tested by: EH	Reviewed by: HJ
Project Vogtle ESP			
Project No. 6141-05-0227		Lab no. 4394	

# Particle Size Distribution Report

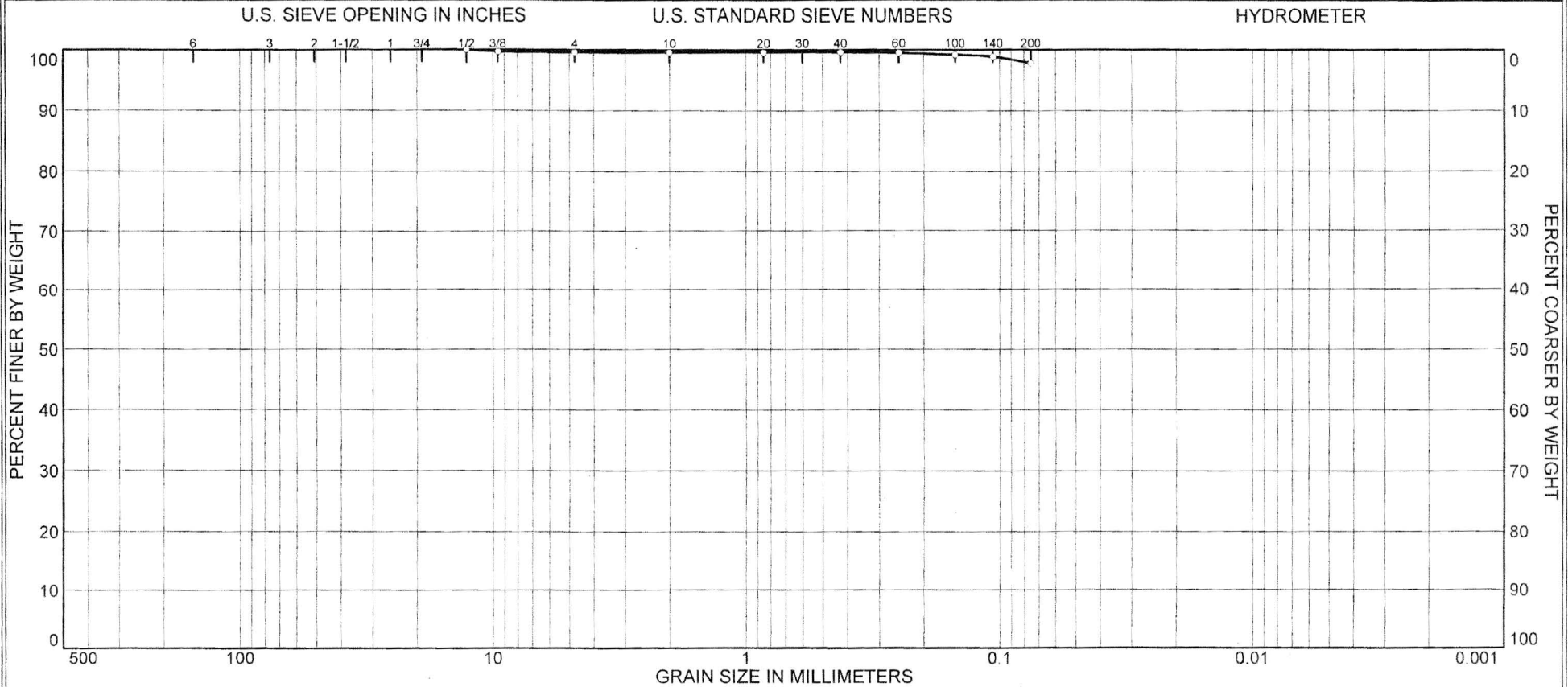


% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	14.0	2.8	5.5	18.1	59.6	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
B-1003	DCS-18	96.0/127.2	10/18/07		Sandy Silt (ML)			

Client Southern Nuclear Operating Company	<b>MACTEC ENGINEERING AND CONSULTING, INC.</b>	Tested by: EH	Reviewed by: HJ
Project Vogtle ESP			
Project No. 6141-05-0227		Lab no. 8064	

# Particle Size Distribution Report



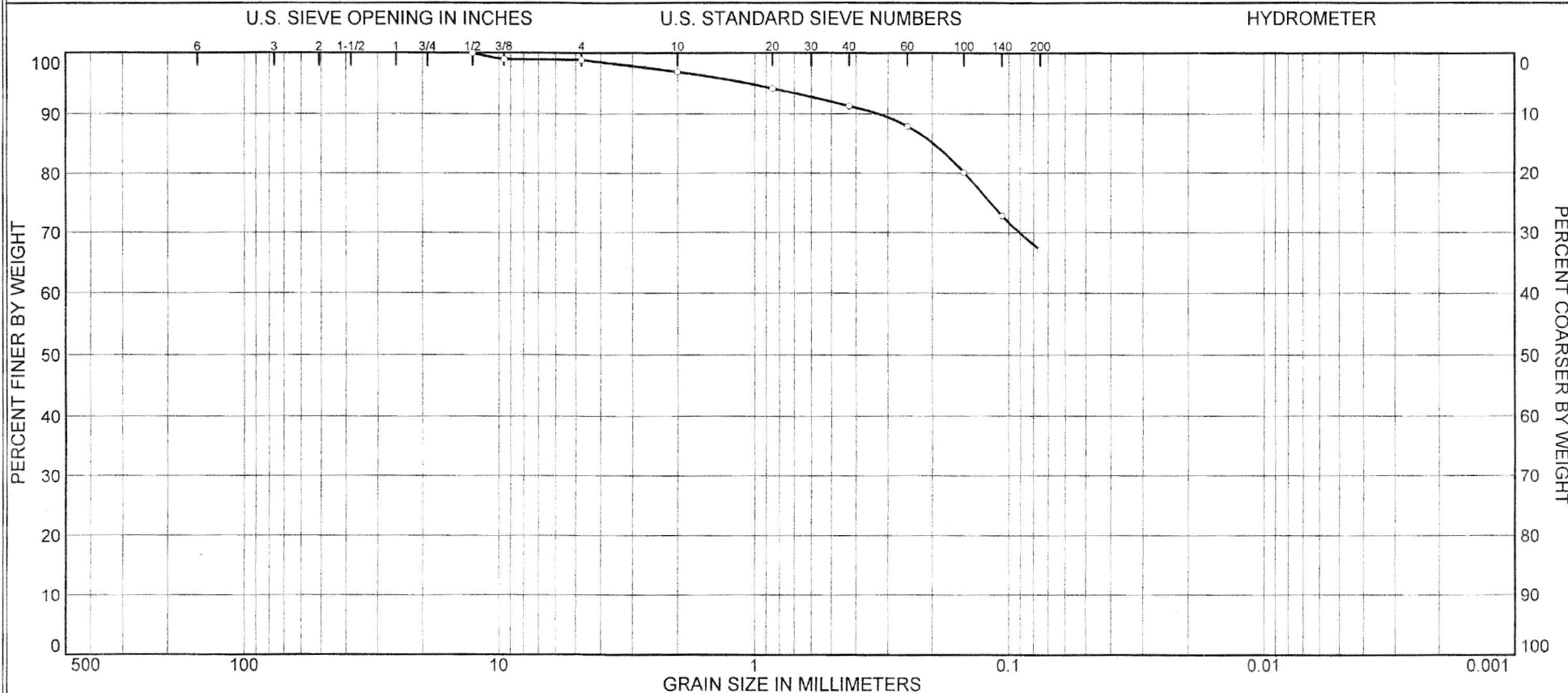
% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.4	0.0	0.0	1.8	97.8	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
B-1003	DCS-27	123.7/99.5	11/1/07		Not Applicable			
	After Acid							
	Wash							

Client Southern Nuclear Operating Company	<b>MACTEC ENGINEERING AND CONSULTING, INC.</b>	Tested by: EH	Reviewed by: HJ
Project Vogtle ESP			
Project No. 6141-05-0227		Lab no. 8065	



# Particle Size Distribution Report

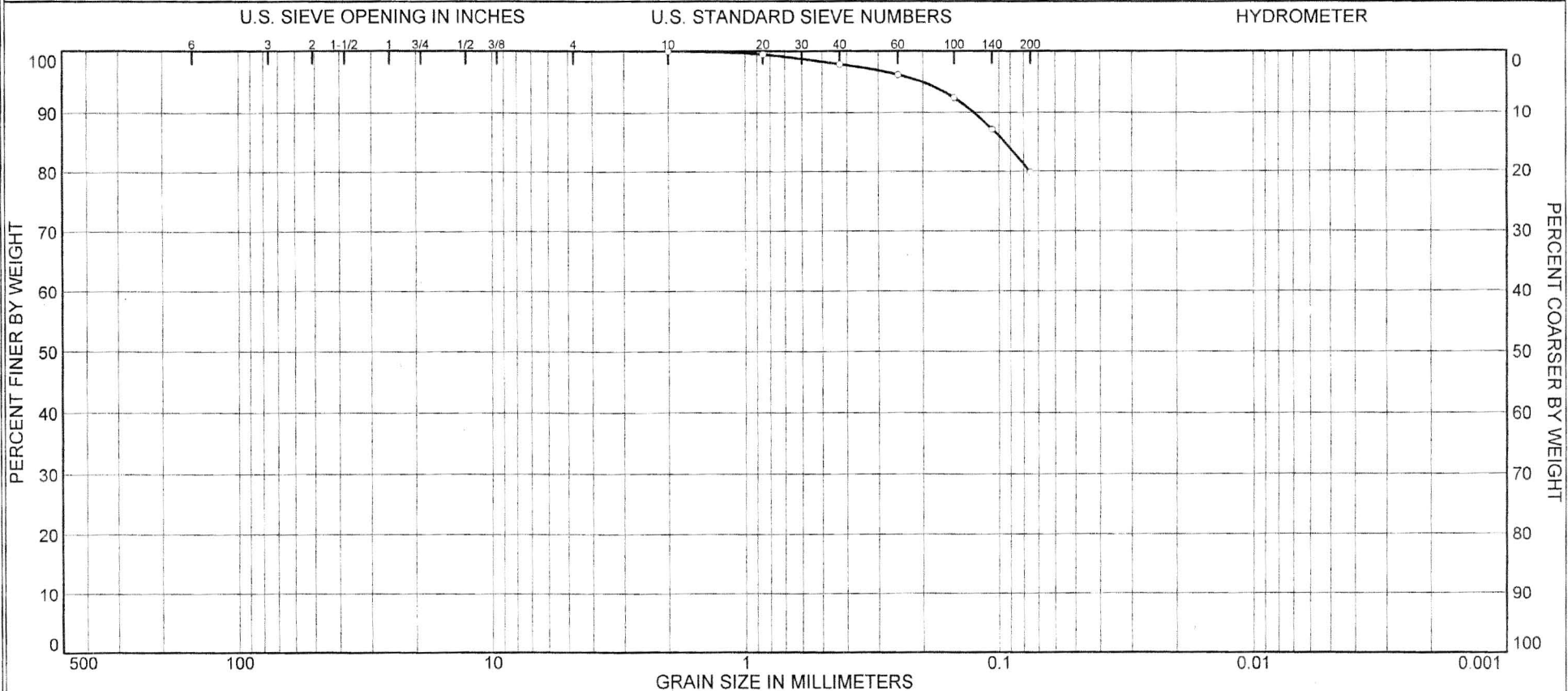


% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	1.1	1.9	5.7	24.3	67.0	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
B-1003	DCS-31	145.7/77.5	10/18/07	CL	Sandy lean clay (CL)		45	23

Client Southern Nuclear Operating Company	<b>MACTEC ENGINEERING AND CONSULTING, INC.</b>	Tested by: EH	Reviewed by: HJ
Project Vogtle ESP			
Project No. 6141-05-0227		Lab no. 8066	

# Particle Size Distribution Report



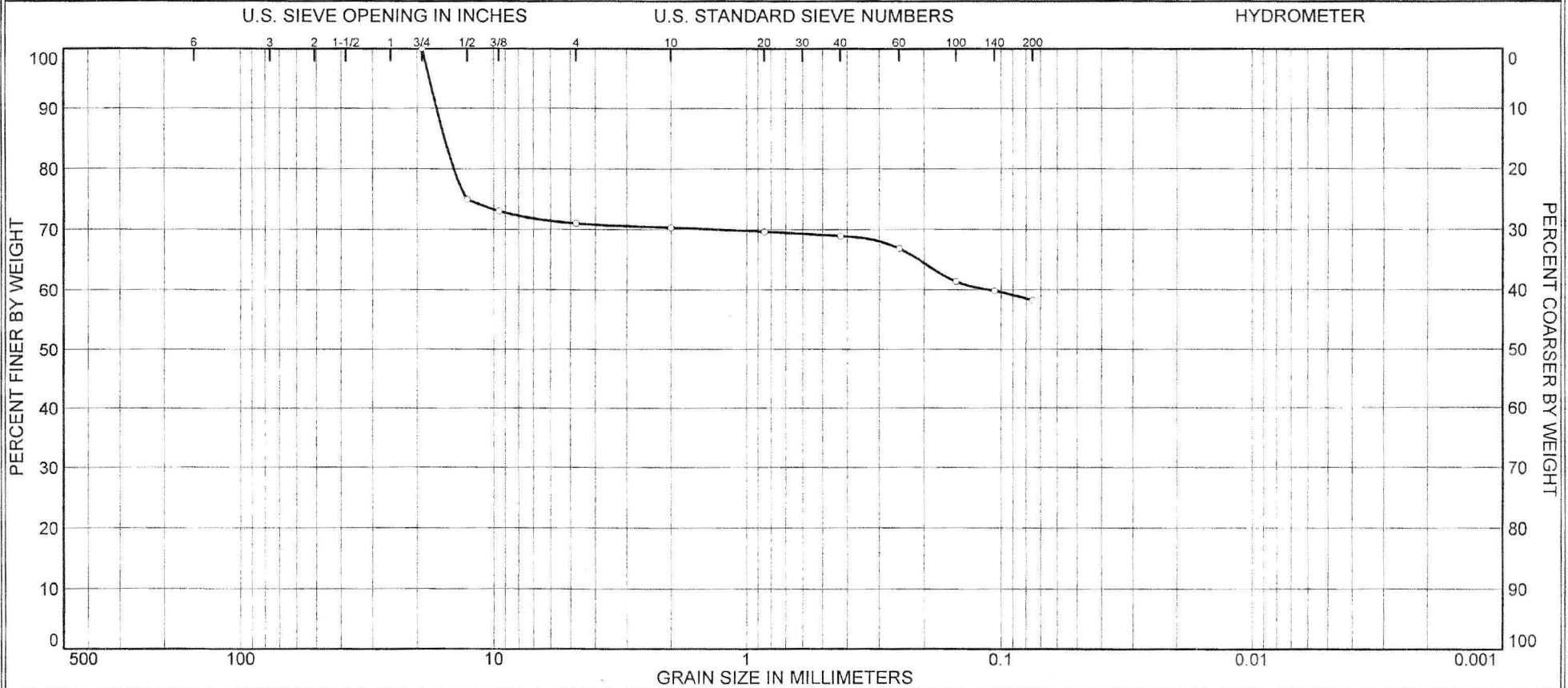
% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	0.0	2.1	18.1	79.8	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
B-1003	DCS-66	315.7/92.5 ft	10/29/07	CL	CLAY, with sand (CL)		43	24

Client Southern Nuclear Operating Company	<b>MACTEC ENGINEERING AND CONSULTING, INC.</b>	Tested by: EH	Reviewed by: HJ
Project Vogtle ESP			
Project No. 6141-05-0227		Lab no. 4445	



# Particle Size Distribution Report

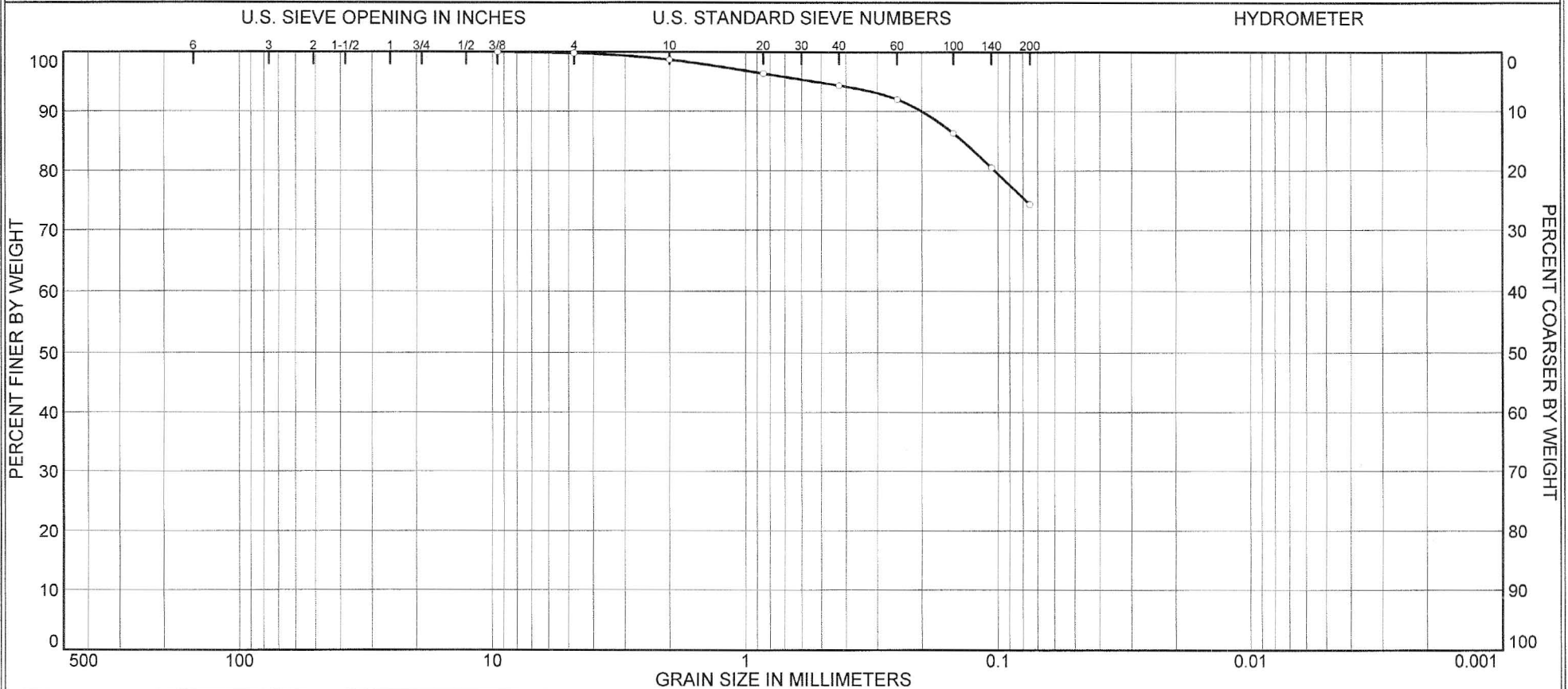


% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	29.0	0.7	1.4	10.6	58.3	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
B-1004	UD-3 (Top)	163.5/86.3	10/18/07	MH	Elastic Silt (MH)		55	37

Client Southern Nuclear Operating Company	<b>MACTEC ENGINEERING AND CONSULTING, INC.</b>	Project Vogtle ESP	Tested by: EH    Reviewed by: HJ
Project No. 6141-05-0227		Lab no. 4450	

# Particle Size Distribution Report

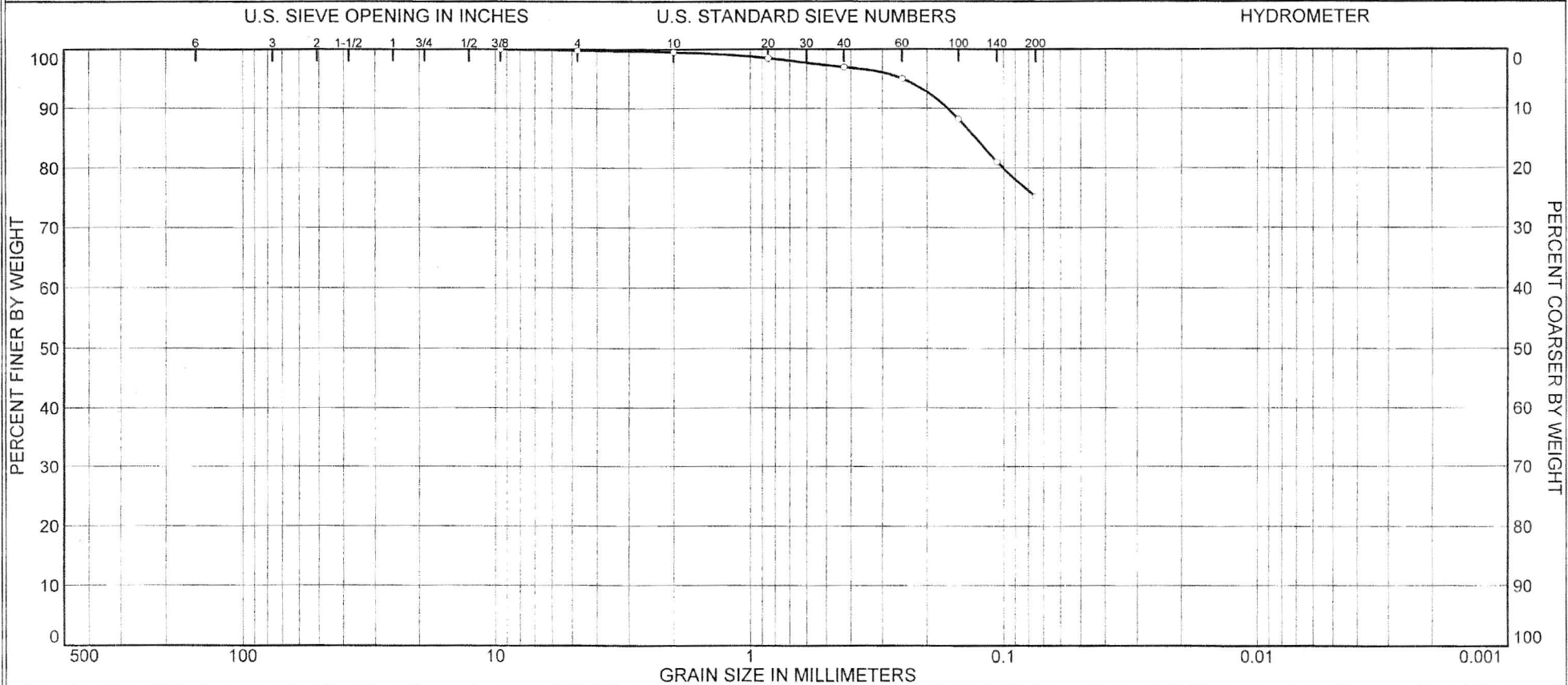


% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.2	1.1	4.3	20.0	74.4	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
B-1004	SPT-34 & 35	134-140/ 115.8-109.8	10/31/07	MH	Elastic Silt with sand (MH)		96	47

Client Southern Nuclear Operating Company	<b>MACTEC ENGINEERING AND CONSULTING, INC.</b>	Tested by: EH	Reviewed by: HJ
Project Vogtle ESP			
Project No. 6141-05-0227		Lab no. 8068-9	

# Particle Size Distribution Report

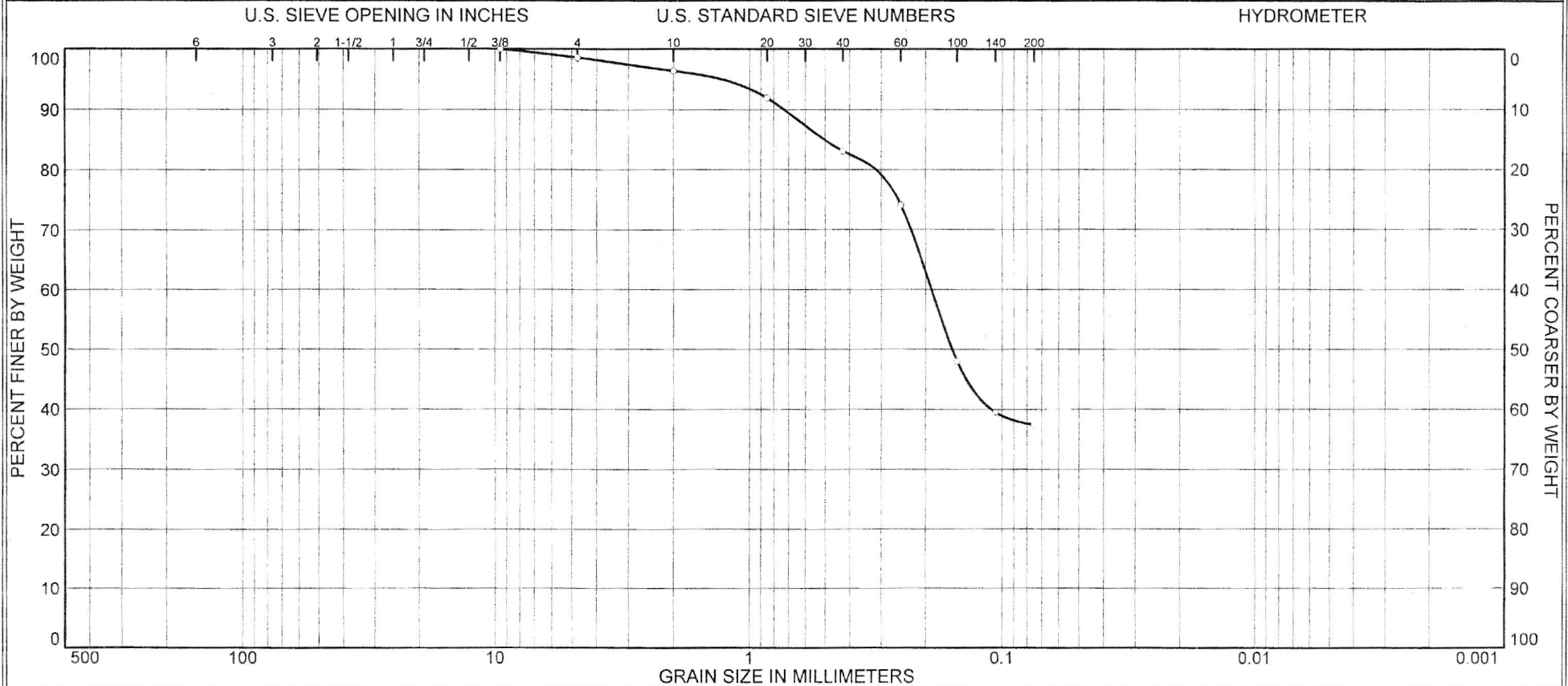


% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.2	0.3	2.5	21.8	75.2	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
B-1004	UD-5 (Top)	188.5/61.2	10/18/07	CL	Lean Clay with sand (CL)		41	24

Client Southern Nuclear Operating Company	<b>MACTEC ENGINEERING AND CONSULTING, INC.</b>	Tested by: EH	Reviewed by: HJ
Project Vogtle ESP			
Project No. 6141-05-0227		Lab no. 4452	

# Particle Size Distribution Report

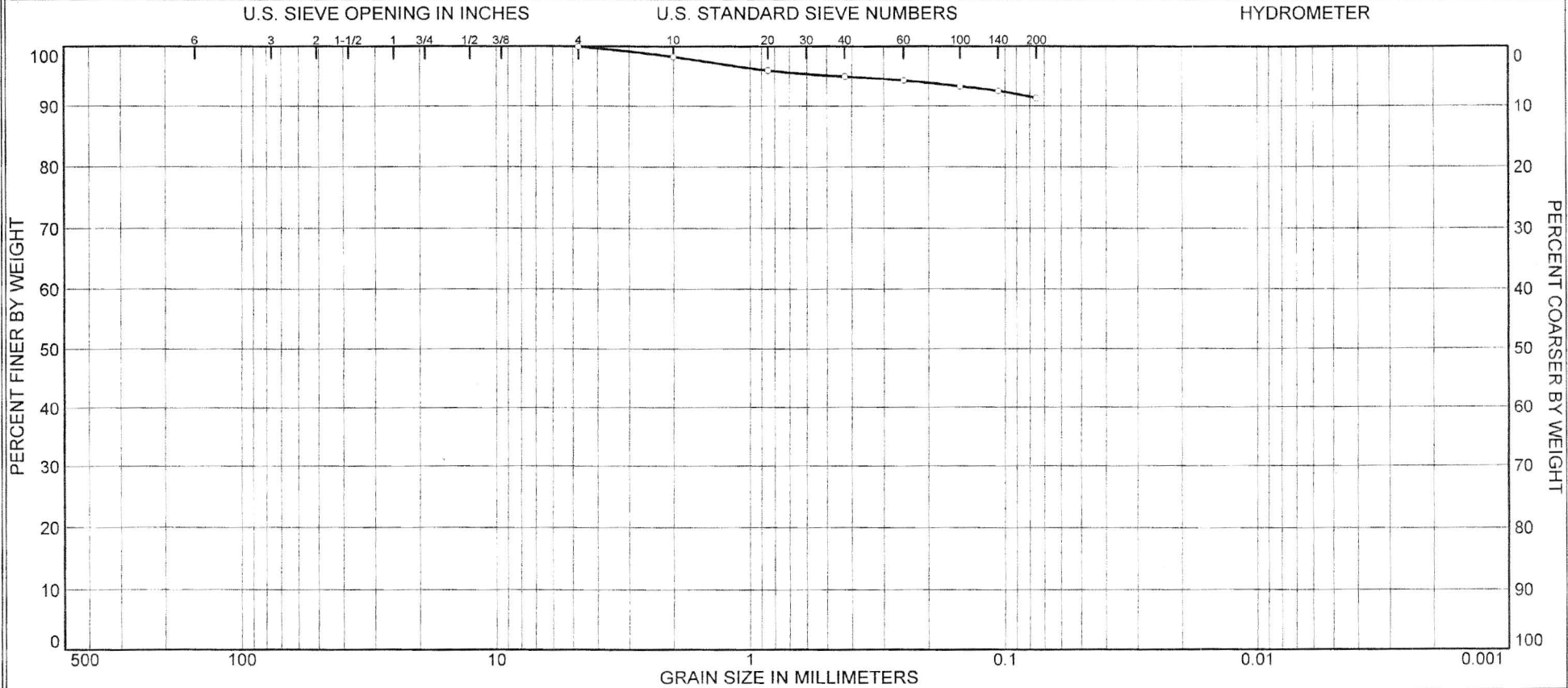


% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	1.4	2.2	13.3	45.7	37.4	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
B-1004	SPT-44	213.5/36.3	10/15/07	SC	Clayey Sand (SC)		41	20

Client Southern Nuclear Operating Company	<b>MACTEC ENGINEERING AND CONSULTING, INC.</b>	Tested by: EH	Reviewed by: HJ
Project Vogtle ESP			
Project No. 6141-05-0227		Lab no. 8074	

# Particle Size Distribution Report



% COBBLES	% GRAVEL		% SAND			% FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY
0.0	0.0	0.0	1.7	3.3	3.7	91.3	

SOURCE	SAMPLE #	DEPTH/ELEV.	DATE SAMPLED	USCS	MATERIAL DESCRIPTION	NM %	LL	PL
B-1010	SPT-27	98.5/120.1	10/18/07	MH	Elastic silt (MH)		94	47

Client Southern Nuclear Operating Company	<b>MACTEC ENGINEERING AND CONSULTING, INC.</b>	Tested by: EH    Reviewed by: HJ
Project Vogtle ESP		
Project No. 6141-05-0227      Lab no. 8076		