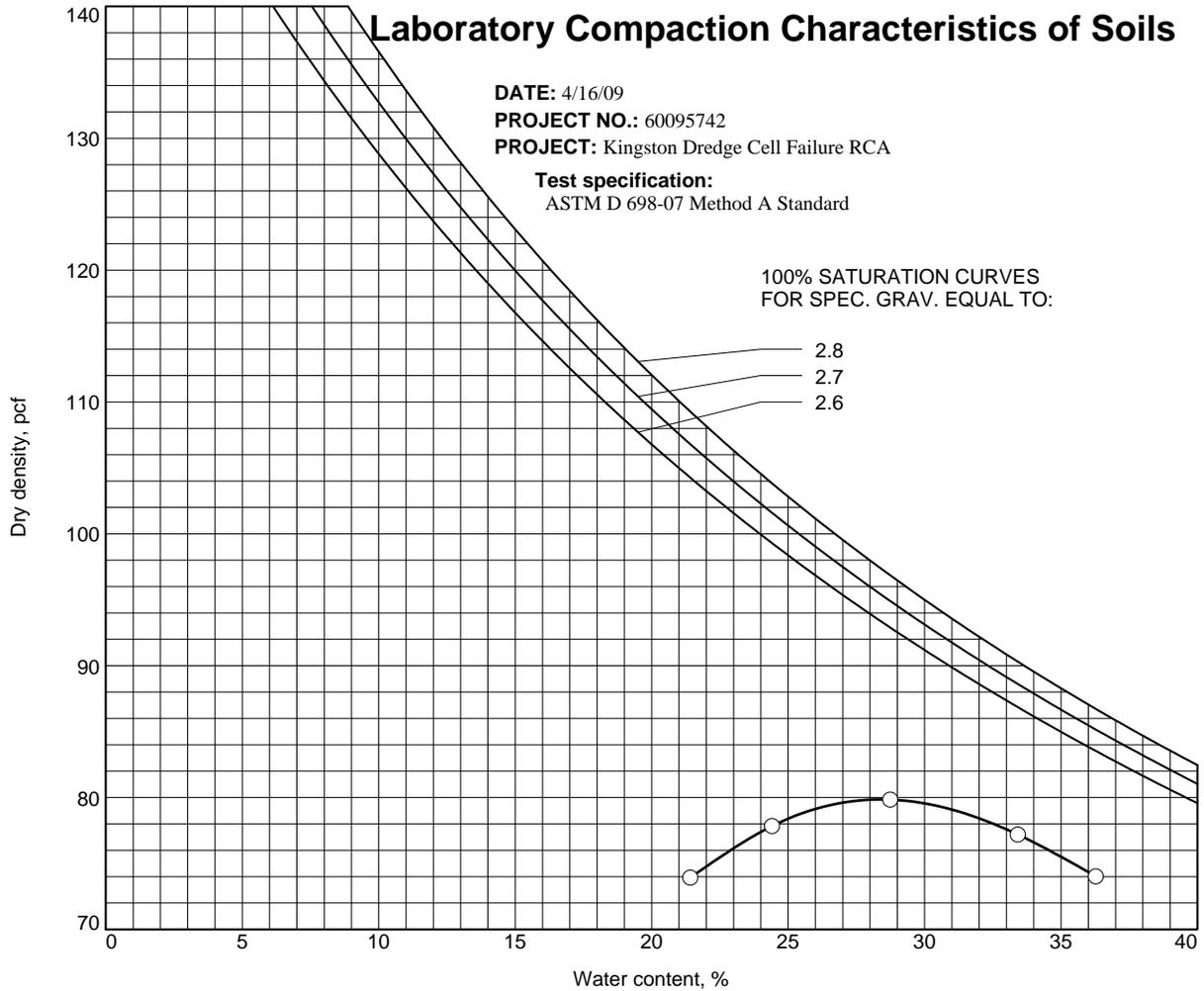


# Laboratory Compaction Characteristics of Soils

**DATE:** 4/16/09  
**PROJECT NO.:** 60095742  
**PROJECT:** Kingston Dredge Cell Failure RCA  
**Test specification:**  
 ASTM D 698-07 Method A Standard



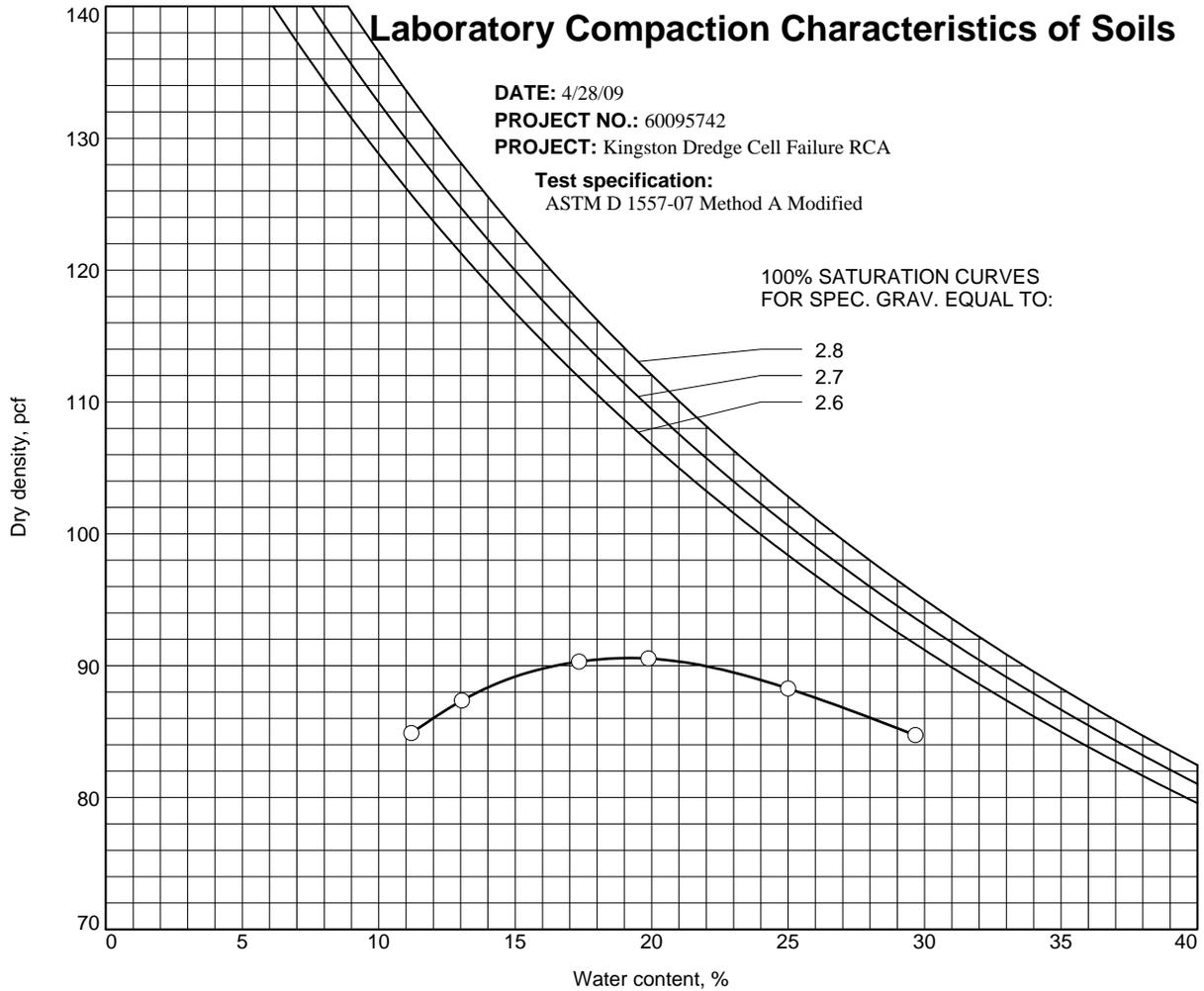
Sample No.	Elev. or Depth	Material Description	Specific Gravity	LL	PL	Oversize	% < #200
○ 1,2,3,4,5		ASH - DARK GRAY	2.33				
<b>Sample No.</b>		1,2,3,4,5					
<b>Natural water content, percent</b>		---					
<b>Optimum water content, percent</b>		28.4					
<b>Max dry density, pcf</b>		79.9					
<b>Remarks:</b> TEST PERFORMED ON 4/12/09.			<b>Project:</b> Kingston Dredge Cell Failure RCA		<b>Project No.:</b> 60095742		
			<b>Location:</b> TN				
			<b>Source:</b> Bulk Samples				
<b>Figure</b>							

Tested By: BCM

Checked By: WPQ

# Laboratory Compaction Characteristics of Soils

**DATE:** 4/28/09  
**PROJECT NO.:** 60095742  
**PROJECT:** Kingston Dredge Cell Failure RCA  
**Test specification:**  
 ASTM D 1557-07 Method A Modified



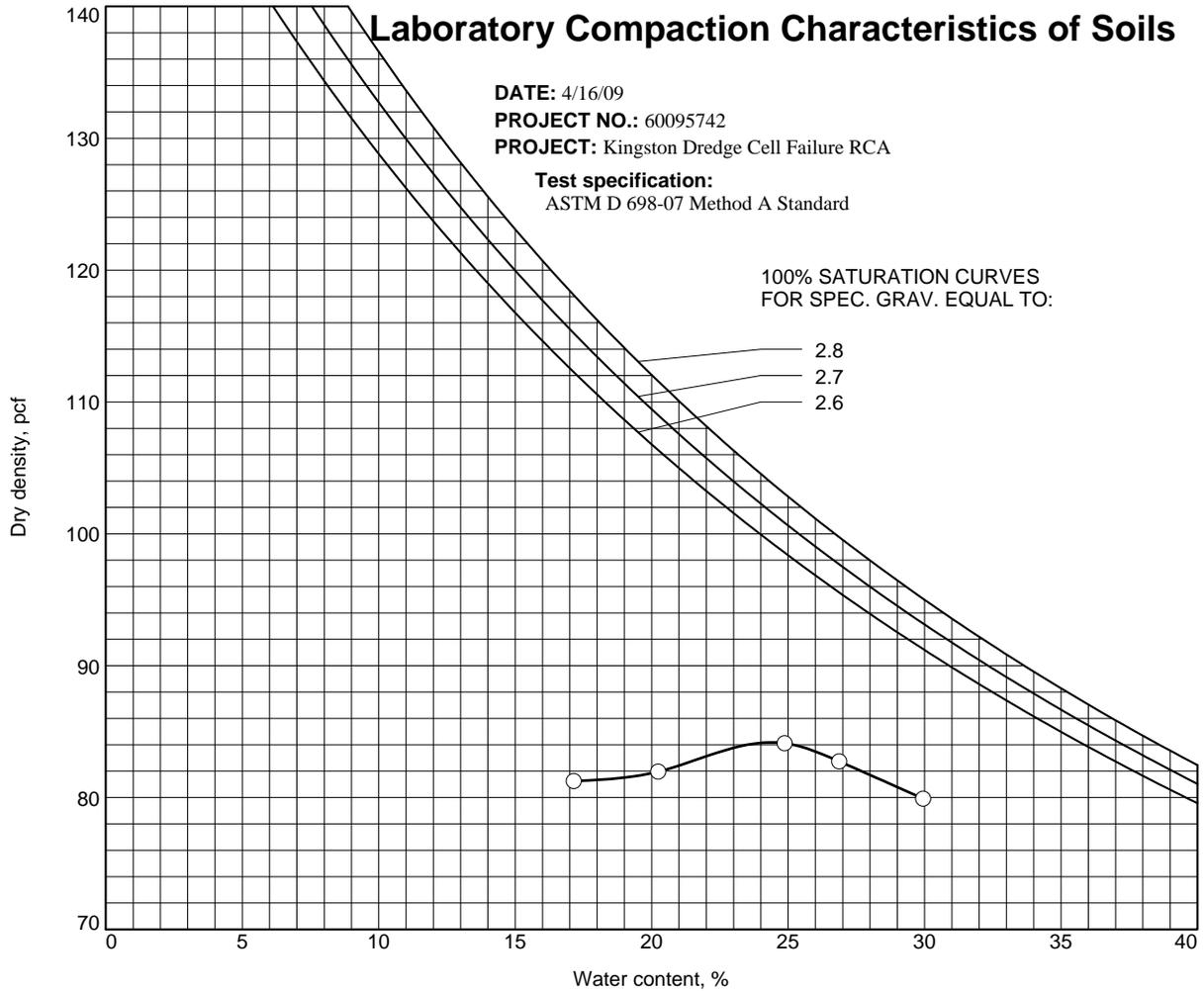
Sample No.	Elev. or Depth	Material Description	Specific Gravity	LL	PL	Oversize	% < #200
○ SC-1		ASH - DARK GRAY	2.33				
<b>Sample No.</b>		SC-1					
<b>Natural water content, percent</b>		21.5%					
<b>Optimum water content, percent</b>		19.2					
<b>Max dry density, pcf</b>		90.6					
<b>Remarks:</b> TEST PERFORMED ON 4/16/09. NATURAL MOISTURE AS RECIEVED.			<b>Project:</b> Kingston Dredge Cell Failure RCA		<b>Project No.:</b> 60095742		
			<b>Location:</b> TN				
			<b>Source:</b> Bulk Samples				
<b>Figure</b>							

Tested By: BCM

Checked By: WPQ

# Laboratory Compaction Characteristics of Soils

**DATE:** 4/16/09  
**PROJECT NO.:** 60095742  
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 ASTM D 698-07 Method A Standard



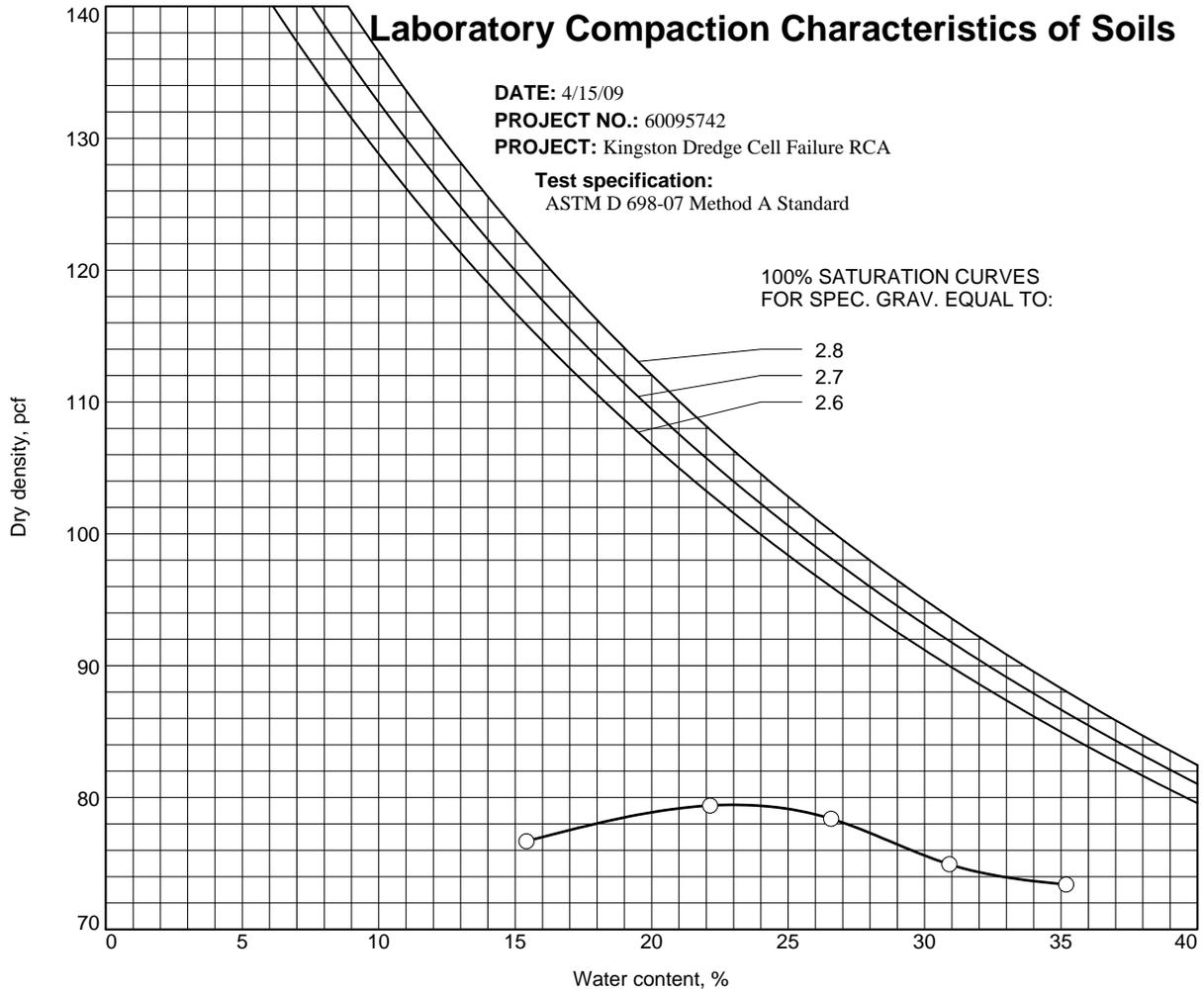
Sample No.	Elev. or Depth	Material Description	Specific Gravity	LL	PL	Oversize	% < #200
○ SC-10		ASH - DARK GRAY	2.33				
<b>Sample No.</b>		SC-10					
<b>Natural water content, percent</b>		24.3%					
<b>Optimum water content, percent</b>		24.4					
<b>Max dry density, pcf</b>		84.2					
<b>Remarks:</b> TEST PERFORMED ON 4/12/09. NATURAL MOISTURE AS RECIEVED.			<b>Project:</b> Kingston Dredge Cell Failure RCA		<b>Project No.:</b> 60095742		
			<b>Location:</b> TN				
			<b>Source:</b> Bulk Samples				
<b>Figure</b>							

Tested By: MM

Checked By: WPQ

# Laboratory Compaction Characteristics of Soils

**DATE:** 4/15/09  
**PROJECT NO.:** 60095742  
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**Test specification:**  
 ASTM D 698-07 Method A Standard



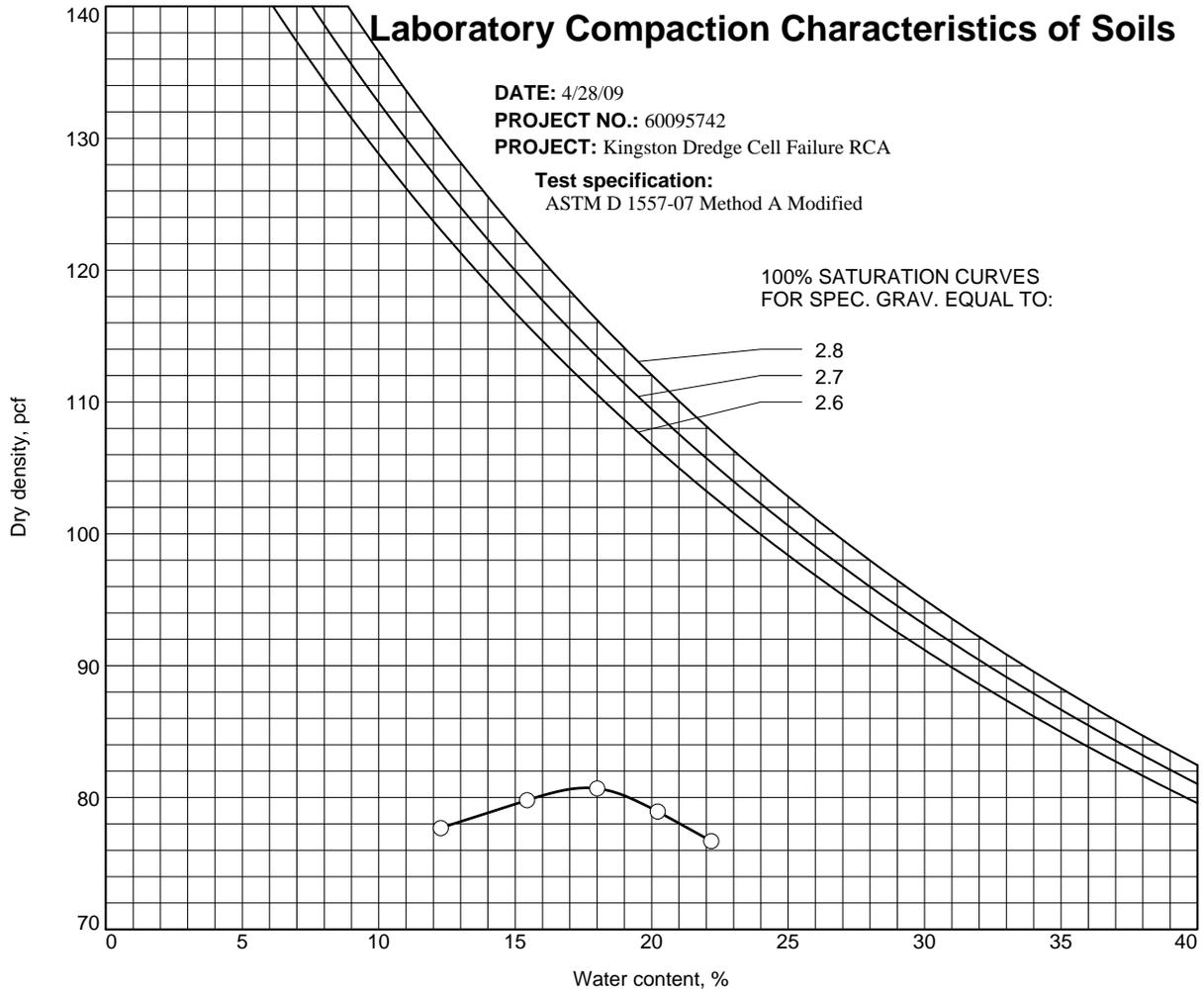
Sample No.	Elev. or Depth	Material Description	Specific Gravity	LL	PL	Oversize	% < #200
○ SC-18		ASH - DARK GRAY	2.33				
<b>Sample No.</b>		SC-18					
<b>Natural water content, percent</b>		16.3%					
<b>Optimum water content, percent</b>		23.0					
<b>Max dry density, pcf</b>		79.4					
<b>Remarks:</b> TEST PERFORMED ON 4/12/09. NATURAL MOISTURE AS RECIEVED.			<b>Project:</b> Kingston Dredge Cell Failure RCA		<b>Project No.:</b> 60095742		
			<b>Location:</b> TN				
			<b>Source:</b> Bulk Samples				
<b>Figure</b>							

Tested By: MM

Checked By: WPQ

# Laboratory Compaction Characteristics of Soils

**DATE:** 4/28/09  
**PROJECT NO.:** 60095742  
**PROJECT:** Kingston Dredge Cell Failure RCA  
**Test specification:**  
 ASTM D 1557-07 Method A Modified



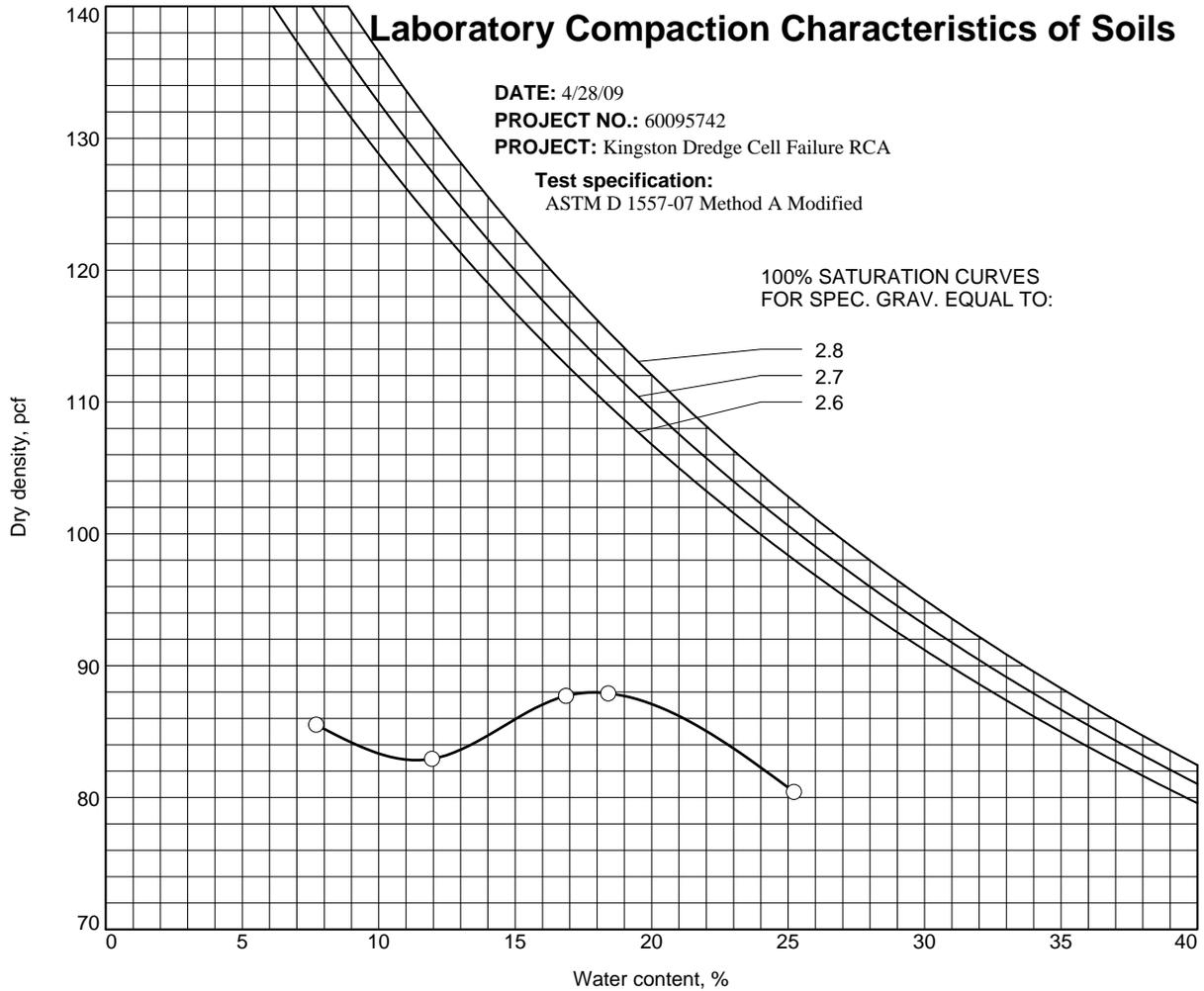
Sample No.	Elev. or Depth	Material Description	Specific Gravity	LL	PL	Oversize	% < #200
○ SC-25		ASH - DARK GRAY	2.33				
<b>Sample No.</b>		SC-25					
<b>Natural water content, percent</b>		35.2%					
<b>Optimum water content, percent</b>		17.6					
<b>Max dry density, pcf</b>		80.7					
<b>Remarks:</b> TEST PERFORMED ON 4/16/09. NATURAL MOISTURE AS RECIEVED.			<b>Project:</b> Kingston Dredge Cell Failure RCA		<b>Project No.:</b> 60095742		
			<b>Location:</b> TN				
			<b>Source:</b> Bulk Samples				
<b>Figure</b>							

Tested By: DS

Checked By: WPQ

# Laboratory Compaction Characteristics of Soils

**DATE:** 4/28/09  
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**PROJECT:** Kingston Dredge Cell Failure RCA  
**Test specification:**  
 ASTM D 1557-07 Method A Modified



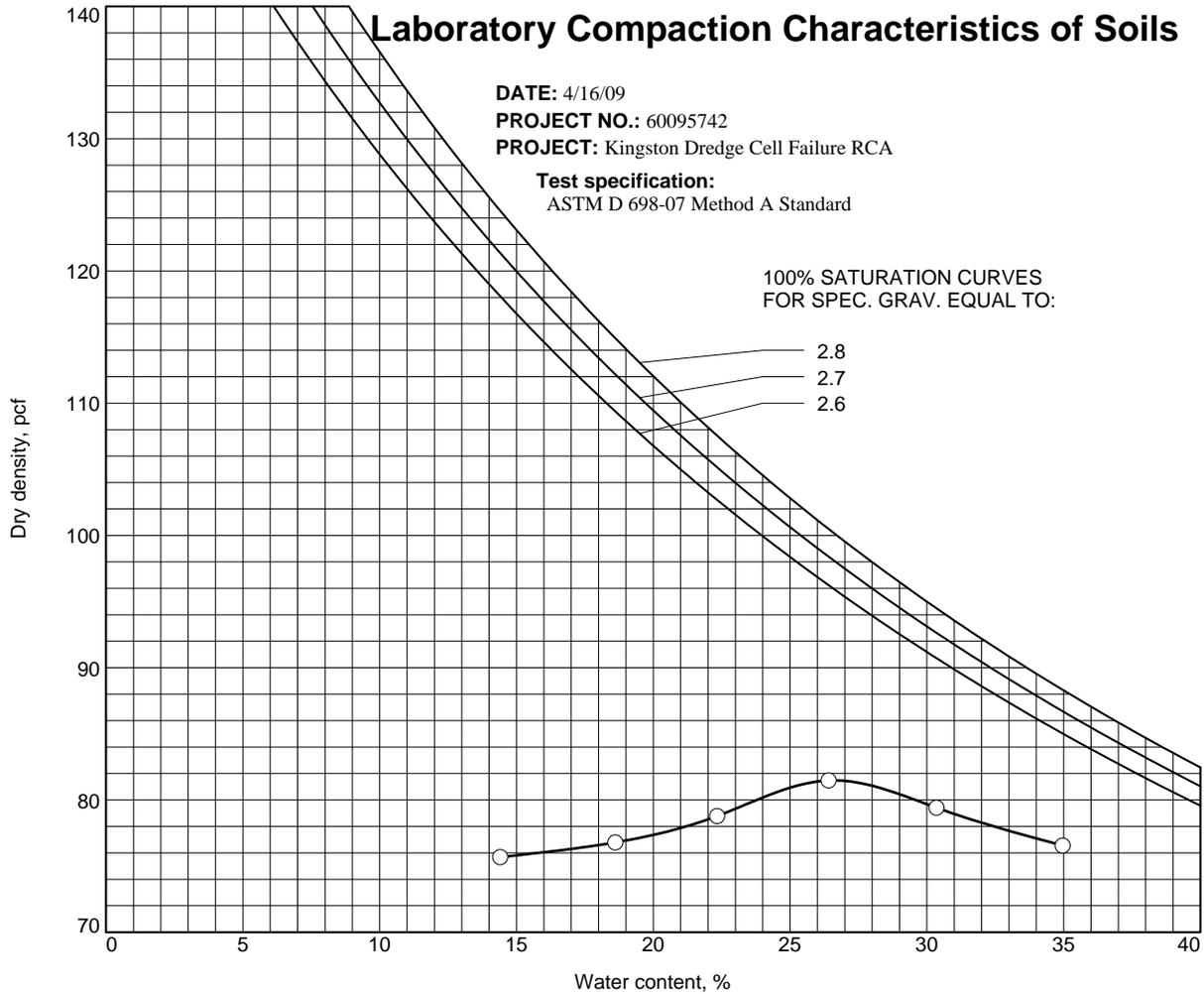
Sample No.	Elev. or Depth	Material Description	Specific Gravity	LL	PL	Oversize	% < #200
○ SC-26		ASH - DARK GRAY	2.33				
<b>Sample No.</b>		SC-26					
<b>Natural water content, percent</b>		18.0%					
<b>Optimum water content, percent</b>		17.9					
<b>Max dry density, pcf</b>		88.0					
<b>Remarks:</b> TEST PERFORMED ON 4/16/09. NATURAL MOISTURE AS RECIEVED.			<b>Project:</b> Kingston Dredge Cell Failure RCA		<b>Project No.:</b> 60095742		
			<b>Location:</b> TN				
			<b>Source:</b> Bulk Samples				
<b>Figure</b>							

Tested By: JF

Checked By: WPQ

# Laboratory Compaction Characteristics of Soils

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**Test specification:**  
 ASTM D 698-07 Method A Standard



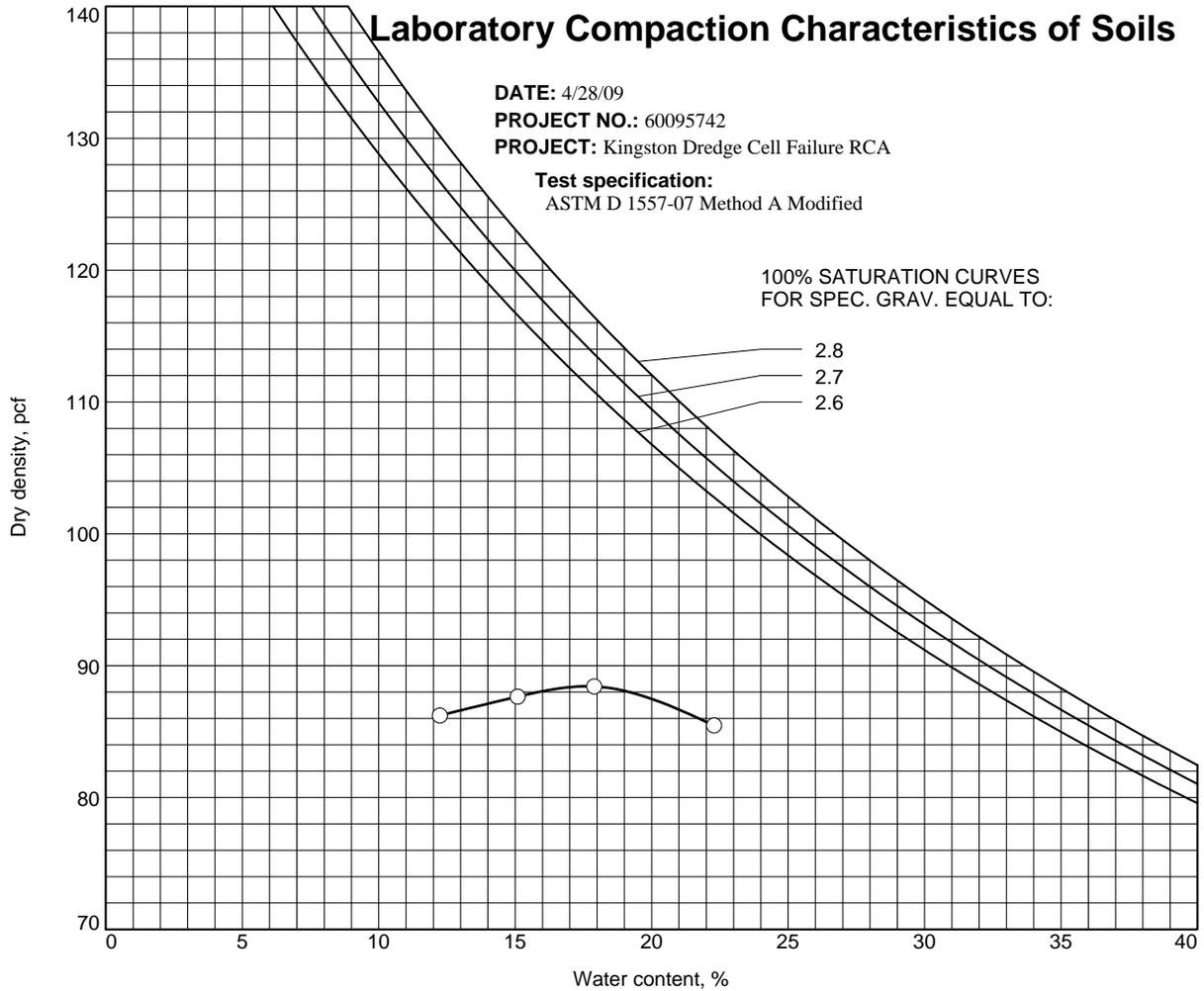
Sample No.	Elev. or Depth	Material Description	Specific Gravity	LL	PL	Oversize	% < #200
○ SC-26		ASH - DARK GRAY	2.33				
<b>Sample No.</b>		SC-26					
<b>Natural water content, percent</b>		24.6%					
<b>Optimum water content, percent</b>		26.6					
<b>Max dry density, pcf</b>		81.5					
<b>Remarks:</b> TEST PERFORMED ON 4/12/09. NATURAL MOISTURE AS RECIEVED.			<b>Project:</b> Kingston Dredge Cell Failure RCA		<b>Project No.:</b> 60095742		
			<b>Location:</b> TN				
			<b>Source:</b> Bulk Samples				
<b>Figure</b>							

Tested By: MM

Checked By: WPQ

# Laboratory Compaction Characteristics of Soils

**DATE:** 4/28/09  
**PROJECT NO.:** 60095742  
**PROJECT:** Kingston Dredge Cell Failure RCA  
**Test specification:**  
 ASTM D 1557-07 Method A Modified



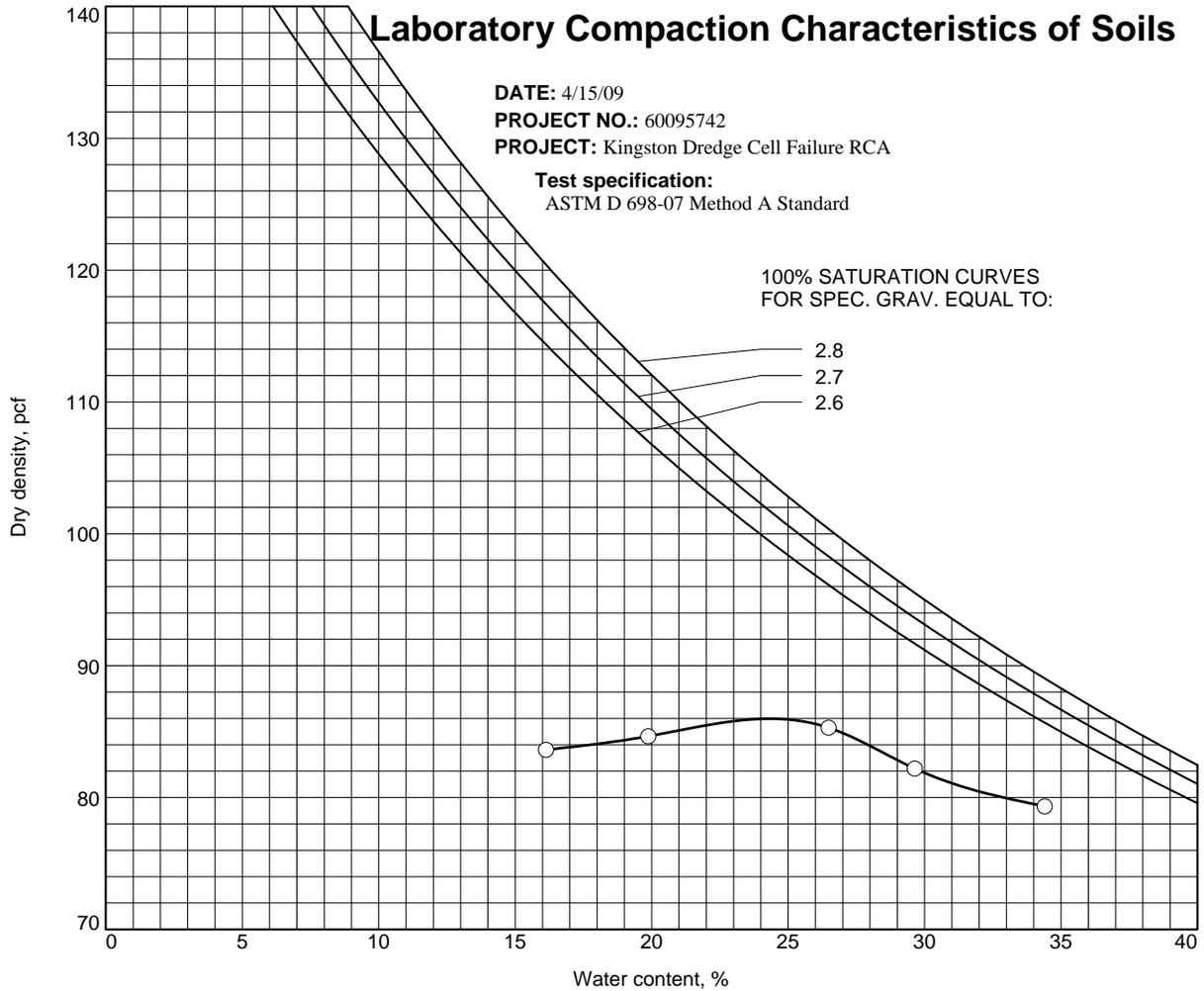
Sample No.	Elev. or Depth	Material Description	Specific Gravity	LL	PL	Oversize	% < #200
○ SC-27		ASH, LITTLE SAND, TRACE FINE GRAVEL - DARK GRAY	2.33				
<b>Sample No.</b>		SC-27					
<b>Natural water content, percent</b>		21.9%					
<b>Optimum water content, percent</b>		17.6					
<b>Max dry density, pcf</b>		88.4					
<b>Remarks:</b> TEST PERFORMED ON 4/16/09. NATURAL MOISTURE AS RECIEVED.			<b>Project:</b> Kingston Dredge Cell Failure RCA		<b>Project No.:</b> 60095742		
			<b>Location:</b> TN				
			<b>Source:</b> Bulk Samples				
<b>Figure</b>							

Tested By: DS

Checked By: WPQ

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**DATE:** 4/15/09  
**PROJECT NO.:** 60095742  
**PROJECT:** Kingston Dredge Cell Failure RCA  
**Test specification:**  
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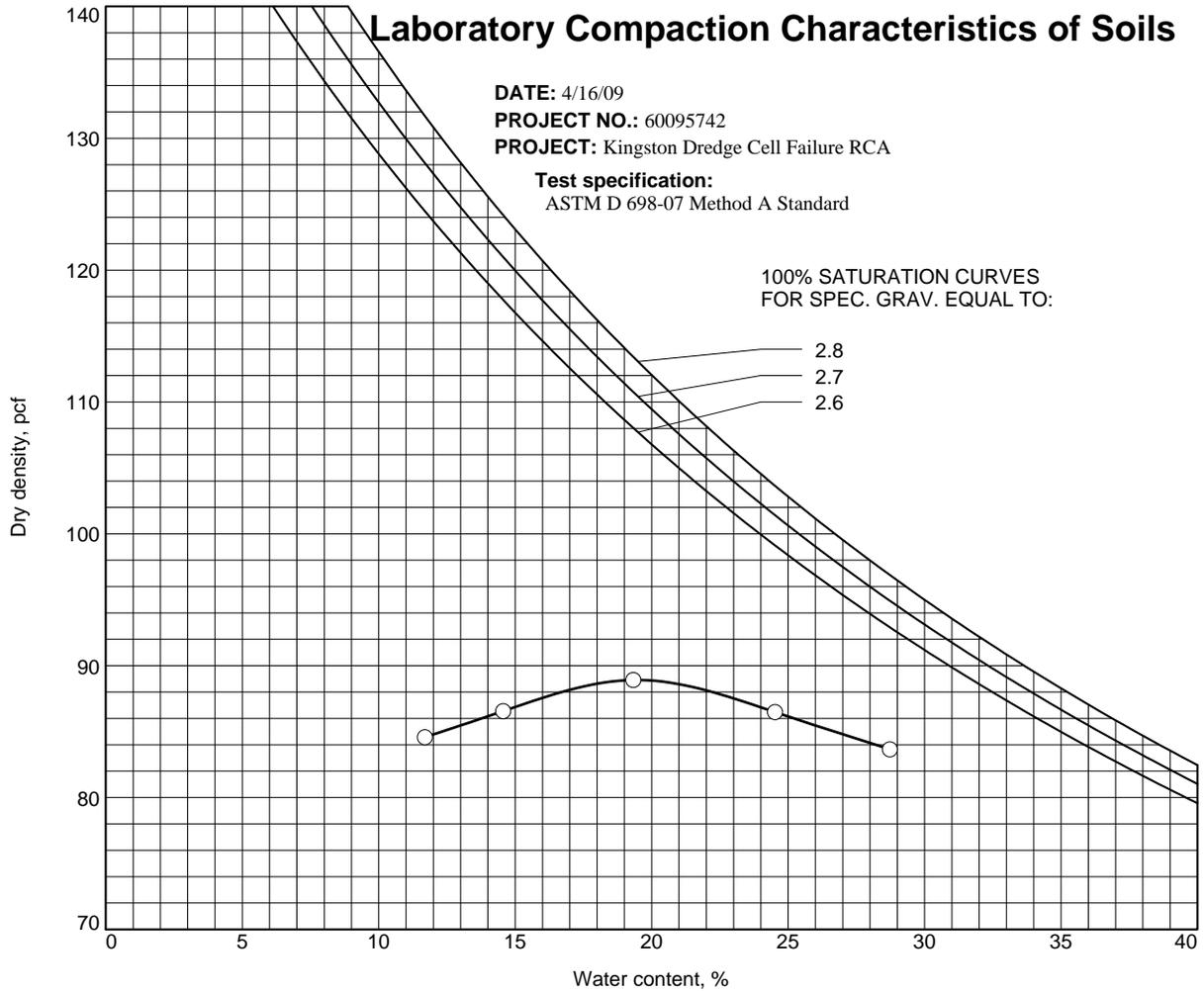
Sample No.	Elev. or Depth	Material Description	Specific Gravity	LL	PL	Oversize	% < #200
○ SC-34		ASH - DARK GRAY	2.33				
<b>Sample No.</b>		SC-34					
<b>Natural water content, percent</b>		21.2%					
<b>Optimum water content, percent</b>		24.3					
<b>Max dry density, pcf</b>		86.0					
<b>Remarks:</b> TEST PERFORMED ON 4/12/09. NATURAL MOISTURE AS RECIEVED.			<b>Project:</b> Kingston Dredge Cell Failure RCA		<b>Project No.:</b> 60095742		
			<b>Location:</b> TN				
			<b>Source:</b> Bulk Samples				
<b>Figure</b>							

Tested By: MM

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Sample No.	Elev. or Depth	Material Description	Specific Gravity	LL	PL	Oversize	% < #200
○ SC-40		ASH - DARK GRAY	2.33				
<b>Sample No.</b>		SC-40					
<b>Natural water content, percent</b>		20.5%					
<b>Optimum water content, percent</b>		19.4					
<b>Max dry density, pcf</b>		88.9					
<b>Remarks:</b> TEST PERFORMED ON 4/12/09. NATURAL MOISTURE AS RECIEVED.			<b>Project:</b> Kingston Dredge Cell Failure RCA		<b>Project No.:</b> 60095742		
			<b>Location:</b> TN				
			<b>Source:</b> Bulk Samples				
<b>Figure</b>							

Tested By: MM

Checked By: WPQ