

Slake Durability Test Data

(ASTM D-4644)

DLZ Project Name: SCI-823-0.00
 DLZ Project Number: 0121-3070.03
 Client: TranSystems
 Date: 9/27/04

Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
R-435	9	86.5'-87.6'	1.7	65.1	34.9	III	21.8	71.2
R-436	7	61.9'-63.0'	1.5	67.5	32.5	II	22.0	71.6
R-446	1	8.7'-9.6'	7.8	96.1	3.9	I	21.9	71.4
R-446	2	16.2'-17.3'	2.8	28.5	71.5	III	22.2	72.0
R-447	2	17.0'-18.0'	2.7	0.0	100	III	21.7	71.1
R-448	2	30.9'-32.2'	4.0	95.7	4.3	I	22.2	72.0
R-448	10	96.5'-97.2'	1.9	62.6	37.4	III	21.7	71.1



6121 Huntley Road * Columbus, Ohio, 43229

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(ASTM D-4644)

DLZ Project Name: SCI-823-0.00
 DLZ Project Number: 0121-3070.03
 Client: TranSystems
 Date: 11/8/04

Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
R-414	1	8.5'-9.7'	1.3	91.6	8.4	I	22.1	71.8
R-414	9	87.5'-88.8'	1.0	78.3	21.7	II	21.9	71.4
R-432	1	8.7'-9.9'	1.3	73.6	26.4	I	21.9	71.4



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(ASTM D-4644)

DLZ Project Name: SCI-823-0.00
 DLZ Project Number: 0121-3070.03
 Client: TranSystems
 Date: 1/12/05

Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
R-384	1	10.5'-12.5'	1.6	73.9	26.1	II	22.3	72.1
R-384	3	25.5'-27.0'	0.8	93.2	6.8	I	21.8	71.2
R-384	5	46.5'-48.0'	1.3	98.0	2.0	I	22.2	72.0
R-386	6	39.0'-40.5'	0.9	92.7	7.3	I	21.4	70.5
R-386	11	92.9'-93.9'	3.0	91.8	8.2	I	22.1	71.8
R-387	2	15.0'-20.0'	0.7	87.0	13.0	II	22.2	72.0
R-387	5	44.3'-45.3'	4.9	97.3	2.7	I	22.5	72.5
R-387	7	62.4'-63.4'	2.1	96.9	3.1	I	21.4	70.5
R-387	12	116.0'-117.5'	1.1	70.6	29.4	II	21.8	71.2
R-389	1	8.0'-9.5'	1.0	93.3	6.7	I	22.3	72.1



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 Date: 1/17/05

Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
R-356	2	24.9'-27.0'	1.2	21.9	78.1	III	22.2	72.0
R-356	13	138.0'-139.5'	0.2	89.5	10.5	I	21.7	71.1
R-360	10	106.9'-108.8'	3.8	98.3	1.7	I	22.3	72.1
R-363	1	28.7'-30.0'	3.5	20.1	79.9	III	22.1	71.8
R-363	16	175.4'-176.2'	3.3	98.0	2.0	I	21.6	70.9
R-367	2	22.5'-24.0'	0.7	71.0	29.0	II	22.2	72.0
R-367	4	41.2'-42.5'	2.8	98.4	1.6	I	21.8	71.2
R-367	11	117.5'-119.0'	0.4	92.2	7.8	II	22.0	71.6
R-370	1	11.5'-13.0'	1.2	95.4	4.6	I	22.4	72.3
R-370	4	34.2'-35.5'	0.5	95.2	4.8	I	21.8	71.2



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 Client: TranSystems
 Date: 1/19/05

Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
R-359	1	11.0'-12.3'	1.5	5.9	94.1	III	22.0	71.6
R-365	1	18.9'-20.0'	2.6	30.8	69.2	III	22.3	72.1
R-365	4	46.5'-47.3'	2.3	32.4	67.6	III	22.5	72.5
R-376	2	12.1'-13.4'	2.7	92.8	7.2	I	21.8	71.2
R-376	2	17.1'-18.5'	1.4	23.3	76.7	III	21.8	71.2
R-376	5	49.3'-50.3'	5.4	92.2	7.8	I	22.1	71.8



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DLZ Project Number: 0121-3070.03
Client: TranSystems
Date: 7/12/05

Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
B-121	2	26.9'-27.6'	5.7	5.6	94.4	III	22.4	72.3
B-121A	4	38.9'-39.6'	2.1	10.2	89.8	III	22.3	72.1
B-121A	5	47.4'-47.9'	1.2	19.4	80.6	III	22.5	72.5
B-122	2	18.8'-19.4'	1.8	4.9	95.1	III	22.7	72.9
B-122	4	34.5'-35.5'	1.9	1.7	98.3	III	22.6	72.7



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DLZ Project Number: 0121-3070.03
Client: TranSystems
Date: 7/22/05

Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
R-84	6	50.0'-58.3'	1.3	41.5	58.5	III	22.6	72.7
R-147	4	Check	2.3	12.7	87.3	III	22.3	72.1



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(ASTM D-4644)

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DLZ Project Number: 0121-3070.03
Client: TranSystems
Date: 10/5/05

Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
R-146	3	22.0'-32.0'	1.1	67.0	33.0	II	22.4	72.3
R-146	5	50.6'-51.6'	0.8	84.4	15.6	I	22.3	72.1
R-152A	7	63.6'-64.4'	1.7	18.7	81.3	III	22.6	72.7
R-156	6	62.5'-63.5'	1.7	61.3	38.7	II	22.5	72.5
R-156	10	100.0'-100.9'	0.6	91.1	8.9	I	22.5	72.5



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Client: TranSystems
Date: 10/5/05

Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
R-451	2	15.5'-16.6'	0.9	2.3	97.7	III	21.7	71.1
R-451	3	28.0'-29.0'	2.2	95.6	4.4	I	21.6	70.9
R-453	10/11	103.5'-104.5'	101	85.9	14.1	II	22.0	71.6
R-454	6	31.0'-32.0'	0.7	94.6	5.4	I	21.5	70.7
R-455	10	98.5'-99.5'	1.1	66.8	33.2	II	21.9	71.4



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Slake Durability Test Data

(ASTM D-4644) 3 cycles

DLZ Project Name: SCI-823-0.00
 DLZ Project Number: 0121-3070.03
 Client: TranSystems
 Date: 1/9/06

Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
R-111	3	37.0'-38.0'	2.5	98.2	1.8	I	22.1	71.8
R-122	7	66.8'-67.9'	1.3	49	51.0	II	22.4	72.3
R-122	10	95.1'-96.1'	6.0	97.6	2.4	I	22.2	72.0
R-143	2	22.7'-23.9'	7.1	95.5	4.5	I	22.7	72.9
R-143	3	38.4'-39.2'	4.6	19.4	80.6	III	22.4	72.3
R-153*	3	26.2'-28.0'	1.8	64.2	35.8	I*	22.1	71.8
R-153**	6	57.0'-58.0'	5.5	1.4	98.6	III**	22.1	71.8
R-153	7	71.9'-73.0'	2.4	38.8	61.2	III	22.3	72.1

* Note # 1: R-153, R-3 did not degrade to type III but significant mass was lost on each individual section.

** Note # 2: R-153, R-6 did not survive after 1st cycle, normally test would require 3 cycles.



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Slake Durability Test Data

(ASTM D-4644)

DLZ Project Name: SCI-823-0.00
 DLZ Project Number: 0121-3070.03
 Client: TranSystems
 Date: 7/18/06

Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
R-533	2	25.7'-27.0'	1.5	61.9	38.1	II	22.5	72.5
R-533	2	30.8'-32.0'	0.8	44.9	55.1	II	22.4	72.3
R-533	3	37.2'-38.1'	1.1	94.1	5.9	I	22.2	72.0
R-533	5	57.9'-58.9'	0.4	98.4	1.6	I	22.7	72.9
R-542	3	25.7'-26.9'	1.7	35.7	64.3	III	22.6	72.7
R-633	2	13.4'-14.5'	1.0	84.0	16.0	I	22.5	72.5
R-633	3	20.2'-21.4'	1.5	63.4	36.6	II	22.6	72.7
R-633	3	26.3'-27.5'	0.9	91.4	8.6	I	22.2	72.0
R-633	5	43.2'-44.1'	1.3	13.2	86.8	III	22.8	73.0
R-633	7	63.5'-64.5'	0.6	98.4	1.6	I	22.9	73.2



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 Date: 8/10/06

Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
R-510	2	15.5'-16.4'	0.4	97.6	2.4	I	22.4	72.3
R-608	2	22.5'-23.5'	1.0	70.1	29.9	II	22.5	72.5
R-608	5	50.0'-51.0'	0.1	97.3	2.7	I	22.5	72.5
R-608	6	62.0'-63.0'	0.3	94.4	5.6	I	22.3	72.1
R-624	2	20.4'-21.4'	1.1	75.4	24.6	II	22.3	72.1
R-624	3	27.5'-28.4'	1.2	64.6	35.4	II	22.6	72.7
R-624	3	35.2'-36.3'	1.3	79.8	20.2	I	22.5	72.5
R-626	1	27.6'-28.5'	3.0	98.6	1.4	I	22.3	72.1
R-626	4	50.4'-51.5'	0.5	97.9	2.1	I	22.4	72.3
R-658	3	25.4'-*26.5'	3.6	98.4	1.6	I	22.6	72.7



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Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
R-18	3	26.5'-27.5'	8.4	17.6	82.4	III	22.6	72.7
R-18	5	42.8'-43.7'	0.3	99.8	0.2	I	22.7	72.9
R-18	12	44.0'-45.0'	2.3	84.5	15.5	II	22.5	72.5
R-47	3	26.0'-27.0'	2.8	80.1	19.9	II	22.3	72.1
R-47	5	45.5'-46.5'	2.9	11.7	88.3	III	22.4	72.3
R-47	7	60.8'-61.8'	1.1	84.5	15.5	II	22.3	72.1
R-47	14	134.0'-135.0'	0.6	98.7	1.3	I	22.7	72.9
TB-49	2	87.4'-88.4'	1.2	99.4	0.6	I	22.2	72.0
R-111	1	17.7'-18.7'	0.9	57.8	42.2	II	22.4	72.3
R-111	5	53.6'-54.6'	0.7	97.5	2.5	I	22.7	72.9



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Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
R-801	1	27.3'-28.3'	4	99.0	1.0	I	21.9	71.4
R-801	2	39.0'-40.0'	1.3	94.5	5.5	I	22.0	71.6
R-801	3	44.8'-46.0'	1.9	37.8	62.2	III	22.2	72.0
R-802	1	30.0'-31.4'	3.4	3.8	96.2	III	22.2	72.0
R-802	2	38.0'-39.0'	0.9	92.8	7.2	II	21.8	71.2
R-802	4	55.0'-56.4'	2.1	54.9	45.1	III	22.4	72.3
R-803	2	41.5'-42.8'	0.9	88.0	12.0	II	22.1	71.8
R-803	3	51.5'-53.0'	2.7	12.7	87.3	III	21.9	71.4
R-806	2	43.3'-44.5'	1.9	93.1	6.9	I	22.4	72.3
R-806	3	57.5'-59.2'	4.0	19.2	80.8	III	22.3	72.1



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DLZ Project Number: 0121-3070.03
Client: TranSystems
Date: 10/24/06

Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
R-808	1	25.0'-26.5'	0.7	90.0	10.0	II	22.0	71.6



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Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
R-731	1	8.9'-10.0'	1.1	90.9	9.1	I	22.3	72.1
R-731	4	39.4'-40.9'	0.6	98.4	1.6	I	22.1	71.8
R-731	11	108.2'-109.5'	0.7	97.2	2.8	I	21.9	71.4
R-731	13	130.8'-131.8'	0.7	98.2	1.8	I	22.0	71.6
R-744	15	159.0'-160.4'	1.0	96.1	3.9	I	22.3	72.1
R-769	6	52.7'-53.8'	2.1	95.6	4.4	I	22.4	72.3
R-769	8	75.8'-77.0'	1.0	86.2	13.8	II	22.5	72.5
R-769	11	101.4'-102.7'	0.9	97.9	2.1	I	21.8	71.2
R-769	12	114.7'-115.7'	1.1	97.2	2.8	I	22.1	71.8
R-769	13	128.1'-129.1'	1.5	93.8	6.2	I	22.2	72.0



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 Client: TranSystems
 Date: 11/04/06

Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
R-731	2	20.5'-21.8'	4.7	18.9	81.1	III	21.8	71.2
R-731	3	30.5'-31.9'	1.6	3.7	96.3	III	21.6	70.9
R-731	7	68.1'-69.1'	0.3	97.9	2.1	I	22.0	71.6
R-744	2	25.0'-26.3'	1.2	70.0	30.0	II	22.1	71.8
R-744	3	40.4'-41.5'	4.1	98.2	1.8	I	22.2	72.0
R-744	4	48.5'-49.5'	4.1	98.1	1.9	I	21.7	71.1
R-744	6	68.6'-69.7'	0.4	97.8	2.2	I	21.8	71.2
R-744	10	112.6'-113.6'	1.6	83.7	16.3	III	22.2	72.0
R-744	12	127.8'-129.0'	0.7	97.5	2.5	I	21.8	71.2
R-744	17	175.6'-177.0'	1.1	64.3	35.7	III	21.5	70.7



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 DLZ Project Number: 0121-3070.03
 Client: TranSystems
 Date: 12/29/06

Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
R-2475	3	30.4'-31.5'	2.9	95.1	4.9	I	22.0	71.6
R-2475	5	44.7'-45.7'	0.6	97.6	2.4	I	21.8	71.2
R-2475	7	65.6'-66.5'	0.9	74.7	25.3	II	21.7	71.1
R-2475	9	89.2'-90.0'	1.0	95.0	5.0	I	21.7	71.1
R-2480	1	13.9'-15.0'	1.0	33.8	66.2	II	22.2	72.0
R-2480	2	16.3'-17.7'	1.5	95.9	4.1	I	22.1	71.8
R-2480	2	21.9'-23.0'	0.9	43.1	56.9	II	22.3	72.1
R-2480	5	54.3'-55.3'	0.7	98.1	1.9	I	22.5	72.5
R-2480	7	75.3'-76.2'	0.5	97.9	2.1	I	22.1	71.8
R-2480	9	96.0'-97.0'	0.8	94.4	5.6	I	21.6	70.9



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(ASTM D-4644)

DLZ Project Name: SCI-823-0.00
 DLZ Project Number: 0121-3070.03
 Client: TranSystems
 Date: 2/5/07

Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
R-43	2	28.6'-29.7'	6.6	39.4	60.6	III	22.2	72.0
R-43	4	48.5'-49.5'	0.7	96.0	4.0	I	21.5	70.7
R-43	6	69.5'-70.5'	2.5	74.2	25.8	II	20.8	69.4
R-43	8	84.3'-85.4'	0.1	98.2	1.8	I	22.1	71.8
R-1406	2	12.0'-13.3'	2.1	96.8	3.2	I	22.0	71.6
R-1406	4	30.5'-31.5'	1.6	93.2	6.8	I	21.5	70.7
R-1406	7	64.5'-65.3'	0.4	97.8	2.2	I	21.6	70.9
R-1408	2	32.2'-33.5'	5.4	96.9	3.1	I	22.1	71.8
R-1408	4	47.2'-48.1'	1.2	97.8	2.2	I	22.1	71.8
R-1409	2	26.0'-28.1'	1.6	97.8	2.2	I	21.9	71.4



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Slake Durability Test Data

(ASTM D-4644)

DLZ Project Name: **SCI-823-0.00**
 DLZ Project Number: **0121-3070.03**
 Client: **TranSystems**
 Date: **8/16/07**

Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
B-1702	2	13.4'-14.0'	2.2	94.2	5.8	I	22.5	72.5
B-1702	3	24.7'-25.4'	5.3	96.8	3.2	I	22.7	72.9
B-1704	3	16.2'-16.8'	1.0	95.6	4.4	I	22.8	73.0



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Slake Durability Test Data

(ASTM D-4644)

DLZ Project Name: SCI-823-0.00
 DLZ Project Number: 0121-3070.03
 Client: TranSystems
 Date: 11/04/06

Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temp (°C)	Water Temp (°F)
B-1343	1	9.7'-11.0'	3.2	95.9	4.1	I	22.2	72.0
B-1343	2	18.9'-20.0'	3.6	98.3	1.7	I	21.9	71.4
B-1343	4	38.5'-39.7'	4.1	98.7	1.3	I	22.0	71.6
B-1343	6	58.5'-59.5'	1.9	98.0	2.0	I	21.9	71.4
B-1343	7	68.9'-70.1'	1.9	98.3	1.7	I	22.2	72.0
B-1343	8	76.7'-77.8'	2.4	98.7	1.3	I	21.8	71.2



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Slake Durability Test Data

(ASTM D-4644)

DLZ Project Name: SCI-823-0.00
DLZ Project Number: 0121-3070.03
Client: Transystems, Inc.
Date: 10/20/04

Boring	Run	Depth	Moisture	Slake Durability	Loss	Type	Water Temperature	Average
			Content (%)	Index			Range (°C)	Temp (°C)
R-365		29.2'-30.2'	4.7	59.5	40.5	II	21.2 - 22.4	21.9
R-365		48.7'-49.5'			100			
R-363	R-2	28.4'-29.4'	5.8	34.6	65.4	III	21.2 - 22.6	22.0
R-454	R-6	33.9'-35.3'	1.2	94.2	5.8	I	21.4 - 22.4	21.8
R-454	R-7	39.2'-40.3'	0.6	89.7	10.3	I	21.2 - 22.4	21.9
R-455	R-2	22.5'-24.1'	0.8	73.9	26.15	II	21.2 - 22.6	21.9
R-455	R-9	90.0'-91.2'	1.2	57.5	42.51	II	21.2 - 22.4	22.0



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Slake Durability Test Data

(ASTM D-4644)

DLZ Project Name: SCI-823-0.00
DLZ Project Number: 0121-3070.03
Client: Transystems, Inc.
Date: 11/8/04

Boring	Run	Depth	Moisture Content (%)	Slake Durability Index	Loss	Type	Water Temperature Range (°C)	Average Temp (°C)
R-414	1	8.5'-9.7'	1.3	91.6	8.4	I	21.6 - 22.6	22.1
R-414	9	87.5'-88.8'	1.0	78.3	21.7	II	21.4 - 22.2	21.9
R-432	1	8.7'-9.9'	1.3	73.6	26.4	I	21.4 - 22.2	21.9



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