

Atterberg Limit Determinations
Cuttings samples from NC-EWDP-24PA

Test ID	Sample Number	Test Date	Determination 1		Determination 2		Average Liquid Limit	Average Plastic Limit	Plasticity Index
			Liquid Limit	Plastic Limit	Liquid Limit	Plastic Limit			
1	24PA-2.50-5.00-D	8/14/06		16.9		16.5		17	
2	24PA-7.50-10.00-D	8/14/06		22.3		22.0		22	
3	24PA-12.50-15.00-D	8/14/06		23.4		23.5		23	
4	24PA-17.50-20.00-D	8/14/06		23.0		22.8		23	
5	24PA-22.50-25.00-D	8/14/06		21.7		21.3		21	
6	24PA-27.50-30.00-D	8/14/06		21.1		20.7		21	
7	24PA-32.50-35.00-D	8/14/06		22.7		22.2		22	
8	24PA-37.50-40.00-D	8/14/06		21.7		21.6		22	
9	24PA-42.50-45.00-D	8/15/06		18.2		18.3		18	
10	24PA-47.50-50.00-D	8/15/06		18.1		18.3		18	
11	24PA-52.50-55.00-D	8/15/06		19.2		19.7		19	
12	24PA-57.50-60.00-D	8/15/06		17.4		17.5		17	
13	24PA-62.50-65.00-D	8/15/06		21.7		22.8		22	
14	24PA-67.50-70.00-D	8/15/06		20.9		21.3		21	
15	24PA-72.50-75.00-D	8/15/06		21.9		21.8		22	
16	24PA-77.50-80.00-D	8/15/06		25.2		25.0		25	
17	24PA-82.50-85.00-D	8/16/06		21.9		20.6		21	
18	24PA-87.50-90.00-D	8/16/06		23.9		23.2		24	
19	24PA-92.50-95.00-D	8/16/06		21.7		20.7		21	
20	24PA-97.50-100.00-D	8/16/06		23.7		22.8		23	
21	24PA-102.50-105.00-D	8/16/06		21.7		21.6		22	
22	24PA-107.50-110.00-D	8/16/06		22.3		23.3		23	
23	24PA-112.50-115.00-D	8/16/06		27.8		27.0		27	
24	24PA-117.50-120.00-D	8/16/06		24.5		25.0		25	
25	24PA-122.50-125.00-D	8/16/06		25.4		24.4		25	
26	24PA-127.50-130.00-D	8/16/06		25.6		25.8		26	
27	24PA-132.50-135.00-D	8/16/06		24.2		25.0		25	
28	24PA-137.50-140.00-D	8/16/06		23.9		22.8		23	
29	24PA-142.50-145.00-D	8/16/06		20.8		19.5		20	
30	24PA-147.50-150.00-D	8/16/06		23.7		23.8		24	

Note: Blanks in liquid limit columns and plasticity index indicate unmeasurable liquid limit.

Electrical Conductivity
Cuttings samples from NC-EWDP-24PA

Test ID	Sample Number	Test Date	Container Weight (g)	Container Plus Moist Sample Weight (g)	Moist Sample Weight (g)	Moisture Correction Factor	Calculated Oven-Dried Sample Weight (g)	Water to be Added (g)	Electrical Conductivity (µmhos/cm)
1	24PA-2.50-5.00-D	8/2/06	200.9	304.5	103.6	0.992	102.7	101.9	166
2	24PA-7.50-10.00-D	8/2/06	200.8	303.6	102.8	0.988	101.6	100.4	961
3	24PA-12.50-15.00-D	8/2/06	200.7	305.6	104.9	0.990	103.8	102.7	400
4	24PA-17.50-20.00-D	8/2/06	200.8	307.1	106.3	0.992	105.4	104.5	204
5	24PA-22.50-25.00-D	8/2/06	200.9	304.3	103.4	0.992	102.6	101.8	183
6	24PA-27.50-30.00-D	8/2/06	200.9	306.3	105.4	0.993	104.6	103.9	184
7	24PA-32.50-35.00-D	8/2/06	199.2	307.2	108.0	0.993	107.2	106.4	166
8	24PA-37.50-40.00-D	8/2/06	199.0	303.9	104.9	0.992	104.0	103.1	205
9	24PA-42.50-45.00-D	8/2/06	199.8	305.3	105.5	0.994	104.9	104.3	145
10	24PA-47.50-50.00-D	8/2/06	200.9	307.4	106.5	0.993	105.8	105.0	151
11	24PA-52.50-55.00-D	8/2/06	201.0	306.3	105.3	0.992	104.5	103.6	137
12	24PA-57.50-60.00-D	8/2/06	200.8	307.7	106.9	0.988	105.6	104.3	147
13	24PA-62.50-65.00-D	8/2/06	201.0	305.9	104.9	0.985	103.4	101.8	141
14	24PA-67.50-70.00-D	8/2/06	200.7	306.4	105.7	0.982	103.8	101.8	132
15	24PA-72.50-75.00-D	8/2/06	199.0	307.5	108.5	0.989	107.3	106.1	106
16	24PA-77.50-80.00-D	8/2/06	200.8	304.1	103.3	0.982	101.4	99.5	155
17	24PA-82.50-85.00-D	8/2/06	198.9	307.3	108.4	0.987	107.0	105.6	125
18	24PA-87.50-90.00-D	8/2/06	200.8	303.7	102.9	0.983	101.1	99.3	139
19	24PA-92.50-95.00-D	8/2/06	200.8	304.9	104.1	0.988	102.9	101.6	136
20	24PA-97.50-100.00-D	8/2/06	201.1	306.9	105.8	0.988	104.5	103.2	144
21	24PA-102.50-105.00-D	8/2/06	200.8	305.4	104.6	0.993	103.9	103.2	128
22	24PA-107.50-110.00-D	8/2/06	200.9	306.7	105.8	0.979	103.6	101.4	131
23	24PA-112.50-115.00-D	8/2/06	200.9	307.8	106.9	0.981	104.9	102.9	94
24	24PA-117.50-120.00-D	8/2/06	201.2	305.7	104.5	0.981	102.5	100.5	97
25	24PA-122.50-125.00-D	8/2/06	200.7	307.9	107.2	0.971	104.0	100.9	103
26	24PA-127.50-130.00-D	8/2/06	199.9	306.2	106.3	0.986	104.9	103.4	82
27	24PA-132.50-135.00-D	8/2/06	199.9	303.4	103.5	0.985	101.9	100.4	85
28	24PA-137.50-140.00-D	8/2/06	200.9	304.8	103.9	0.991	102.9	101.9	79
29	24PA-142.50-145.00-D	8/2/06	199.5	306.2	106.7	0.986	105.3	103.8	102
30	24PA-147.50-150.00-D	8/2/06	200.5	307.6	107.1	0.983	105.2	103.4	118

Test ID	Sample Number	Test Date	Container Weight (g)	Container Weight Plus Moist Sample (g)	Container Weight Plus Oven-Dried Sample (g)	Water Weight (g)	Oven-Dried Solids Weight (g)	Gravimetric Water Content (g/g)
1	24PA-2.50-5.00-D	07/31/06	22.1	86.4	85.9	0.5	63.8	0.008
2	24PA-7.50-10.00-D	07/31/06	22.4	85.3	84.6	0.7	62.2	0.012
3	24PA-12.50-15.00-D	07/31/06	22.4	88.4	87.7	0.7	65.3	0.011
4	24PA-17.50-20.00-D	07/31/06	22.6	86.2	85.7	0.5	63.1	0.009
5	24PA-22.50-25.00-D	07/31/06	22.5	85.3	84.8	0.5	62.3	0.008
6	24PA-27.50-30.00-D	07/31/06	22.2	83.4	83.0	0.5	60.8	0.007
7	24PA-32.50-35.00-D	07/31/06	22.3	88.7	88.2	0.5	65.9	0.007
8	24PA-37.50-40.00-D	07/31/06	22.5	84.2	83.7	0.5	61.1	0.009
9	24PA-42.50-45.00-D	07/31/06	22.2	87.4	87.0	0.4	64.8	0.006
10	24PA-47.50-50.00-D	07/31/06	22.3	89.7	89.3	0.5	66.9	0.007
11	24PA-52.50-55.00-D	07/31/06	22.5	85.7	85.2	0.5	62.7	0.008
12	24PA-57.50-60.00-D	07/31/06	22.2	84.9	84.2	0.8	61.9	0.012
13	24PA-62.50-65.00-D	07/31/06	22.3	85.4	84.5	0.9	62.1	0.015
14	24PA-67.50-70.00-D	07/31/06	22.3	89.2	88.0	1.2	65.7	0.019
15	24PA-72.50-75.00-D	07/31/06	22.4	85.8	85.1	0.7	62.7	0.011
16	24PA-77.50-80.00-D	07/31/06	22.3	84.1	83.0	1.1	60.7	0.019
17	24PA-82.50-85.00-D	07/31/06	22.5	85.8	84.9	0.8	62.4	0.013
18	24PA-87.50-90.00-D	07/31/06	22.5	86.6	85.4	1.1	62.9	0.018
19	24PA-92.50-95.00-D	07/31/06	22.4	88.0	87.2	0.8	64.8	0.012
20	24PA-97.50-100.00-D	07/31/06	22.4	84.7	83.9	0.8	61.6	0.012
21	24PA-102.50-105.00-D	08/01/06	22.4	85.9	85.5	0.4	63.1	0.007
22	24PA-107.50-110.00-D	08/01/06	22.5	86.5	85.2	1.3	62.7	0.021
23	24PA-112.50-115.00-D	08/01/06	22.3	88.0	86.8	1.2	64.5	0.019
24	24PA-117.50-120.00-D	08/01/06	14.1	89.3	87.9	1.4	73.8	0.020
25	24PA-122.50-125.00-D	08/01/06	22.1	87.4	85.4	1.9	63.4	0.030
26	24PA-127.50-130.00-D	08/01/06	22.4	84.9	84.0	0.9	61.6	0.014
27	24PA-132.50-135.00-D	08/01/06	22.4	87.0	86.0	1.0	63.6	0.015
28	24PA-137.50-140.00-D	08/01/06	22.6	84.0	83.4	0.6	60.9	0.010
29	24PA-142.50-145.00-D	08/01/06	22.5	85.4	84.6	0.9	62.1	0.014
30	24PA-147.50-150.00-D	08/01/06	22.2	87.6	86.5	1.1	64.3	0.018

Gravimetric Water Content
 Cuttings samples from NC-EWDP-24PA

Test ID	Sample Number	Test Date	Container Weight (g)	Container Weight Plus Moist Sample (g)	Container Weight Plus Oven-Dried Sample (g)	Water Weight (g)	Oven-Dried Solids Weight (g)	Gravimetric Water Content (g/g)
1	24PA-2.50-5.00-D	07/11/06	13.6	288.7	278.8	9.9	265.1	0.037
2	24PA-7.50-10.00-D	07/11/06	14.1	515.7	492.4	23.3	478.3	0.049
3	24PA-12.50-15.00-D	07/11/06	13.6	644.2	623.8	20.3	610.2	0.033
4	24PA-17.50-20.00-D	07/11/06	13.8	547.7	534.8	12.8	521.0	0.025
5	24PA-22.50-25.00-D	07/11/06	13.8	370.3	358.3	12.0	344.5	0.035
6	24PA-27.50-30.00-D	07/11/06	14.1	542.7	526.5	16.3	512.3	0.032
7	24PA-32.50-35.00-D	07/11/06	13.7	495.6	480.2	15.4	466.4	0.033
8	24PA-37.50-40.00-D	07/11/06	13.8	432.6	419.6	13.0	405.8	0.032
9	24PA-42.50-45.00-D	07/11/06	13.8	523.6	512.4	11.3	498.6	0.023
10	24PA-47.50-50.00-D	07/11/06	14.4	417.6	410.6	7.0	396.2	0.018
11	24PA-52.50-55.00-D	07/11/06	14.2	584.3	571.8	12.4	557.7	0.022
12	24PA-57.50-60.00-D	07/11/06	13.7	637.9	612.1	25.8	598.4	0.043
13	24PA-62.50-65.00-D	07/11/06	14.1	532.5	512.2	20.3	498.1	0.041
14	24PA-67.50-70.00-D	07/11/06	13.8	654.2	618.1	36.1	604.3	0.060
15	24PA-72.50-75.00-D	07/11/06	13.7	537.4	520.6	16.8	506.9	0.033
16	24PA-77.50-80.00-D	07/11/06	13.6	403.9	380.1	23.8	366.5	0.065
17	24PA-82.50-85.00-D	07/11/06	14.1	490.4	469.5	20.9	455.4	0.046
18	24PA-87.50-90.00-D	07/11/06	14.3	620.9	597.7	23.1	583.4	0.040
19	24PA-92.50-95.00-D	07/11/06	13.8	556.9	541.1	15.8	527.4	0.030
20	24PA-97.50-100.00-D	07/11/06	13.7	48.3	466.2	-417.9	452.5	-0.924
21	24PA-102.50-105.00-D	07/12/06	14.2	546.1	532.3	13.8	518.1	0.027
22	24PA-107.50-110.00-D	07/12/06	14.1	518.7	498.0	20.7	483.9	0.043
23	24PA-112.50-115.00-D	07/12/06	13.6	551.5	530.5	21.0	516.9	0.041
24	24PA-117.50-120.00-D	07/12/06	13.8	493.4	474.9	18.5	461.1	0.040
25	24PA-122.50-125.00-D	07/12/06	13.8	480.2	455.6	24.6	441.9	0.056
26	24PA-127.50-130.00-D	07/12/06	14.1	449.6	434.7	15.0	420.6	0.036
27	24PA-132.50-135.00-D	07/12/06	13.7	513.5	495.3	18.2	481.6	0.038
28	24PA-137.50-140.00-D	07/12/06	13.8	439.4	425.8	13.6	412.0	0.033
29	24PA-142.50-145.00-D	07/12/06	13.8	530.1	513.9	16.1	500.2	0.032
30	24PA-147.50-150.00-D	07/12/06	14.4	479.2	463.7	15.5	449.4	0.034

Hydrometer Particle Size Analysis

Cuttings samples from NC-EWDP-24PA with specific gravity passing No. 10 sieve
(Hydrometer number 57878, type 152h)

Sample Number	Test Date	Percent Passing No. 10 Sieve	HWC No. 10 Moisture Correction Factor	Sample Weight (g)	Oven-Dried Sample Weight (g)	Total Oven-Dried Sample Weight (g)	Specific Gravity (g/cm ³)	Elapsed Time (min)	Hydrometer Reading	ASTM Depth	Composite Correction	Corrected Reading	Temperature (°C)	ASTM Alpha Correction	ASTM K Value	Largest Particle Passing (mm)	Percent Passing
24PA-2.50-5.00-D	8/3/06	85.3	0.989	116.39	115.14	134.99	2.602	2	15	13.8	4.20	10.80	23.0	1.01	0.01337	0.0351	8.1
								5	13	14.2		8.80				0.0225	6.6
								15	12	14.3		7.80				0.0131	5.8
								45	11	14.5		6.80				0.0076	5.1
								120	9	14.8		4.80				0.0047	3.6
24PA-7.50-10.00-D	8/3/06	64.4	0.985	115.93	114.23	177.48	2.560	2	15	13.8	4.20	10.80	23.0	1.02	0.01358	0.0357	6.2
								5	13	14.2		8.80				0.0229	5.1
								15	12	14.3		7.80				0.0133	4.5
								45	11	14.5		6.80				0.0077	3.9
								120	9	14.8		4.80				0.0048	2.8
24PA-12.50-15.00-D	8/3/06	50.3	0.986	113.59	112.03	222.75	2.559	2	14	14.0	4.20	9.80	23.0	1.02	0.01358	0.0359	4.5
								5	12	14.3		7.80				0.0230	3.6
								15	11	14.5		6.80				0.0134	3.1
								45	10	14.7		5.80				0.0078	2.7
								120	9	14.8		4.80				0.0048	2.2
24PA-17.50-20.00-D	8/3/06	54.3	0.989	117.33	115.98	213.44	2.526	2	13	14.2	4.20	8.80	23.0	1.02	0.01358	0.0362	4.2
								5	12	14.3		7.80				0.0230	3.7
								15	10	14.7		5.80				0.0134	2.8
								45	9	14.8		4.80				0.0078	2.3
								120	8	15.0		3.80				0.0048	1.8
24PA-22.50-25.00-D	8/3/06	82.7	0.990	116.47	115.27	139.45	2.552	2	13	14.2	4.20	8.80	23.0	1.02	0.01358	0.0362	6.4
								5	12	14.3		7.80				0.0230	5.7
								15	11	14.5		6.80				0.0134	5.0
								45	10	14.7		5.80				0.0078	4.2
								120	9	14.8		4.80				0.0048	3.5
24PA-27.50-30.00-D	8/3/06	58.6	0.989	114.75	113.48	193.77	2.570	2	19	13.2	4.20	14.80	23.0	1.02	0.01358	0.0349	7.8
								5	16	13.7		11.80				0.0225	6.2
								15	14	14.0		9.80				0.0131	5.2
								45	12	14.3		7.80				0.0077	4.1
								120	10	14.7		5.80				0.0048	3.1
24PA-32.50-35.00-D	8/4/06	52.4	0.988	115.51	114.11	217.60	2.583	2	17	13.5	4.60	12.40	21.0	1.01	0.01369	0.0356	5.8
								5	15	13.8		10.40				0.0227	4.8
								15	13	14.2		8.40				0.0133	3.9
								45	12	14.3		7.40				0.0077	3.4
								120	10	14.7		5.40				0.0048	2.5
24PA-37.50-40.00-D	8/4/06	80.0	0.989	112.76	111.48	139.40	2.562	2	14	14.0	4.60	9.40	21.0	1.02	0.01391	0.0368	6.9
								5	13	14.2		8.40				0.0234	6.1
								15	11	14.5		6.40				0.0137	4.7
								45	10	14.7		5.40				0.0080	4.0
								120	9	14.8		4.40				0.0049	3.2

Hydrometer Particle Size Analysis

Cuttings samples from NC-EWDP-24PA with specific gravity passing No. 10 sieve
(Hydrometer number 57878, type 152h)

Sample Number	Test Date	Percent Passing No. 10 Sieve	HWC No. 10 Moisture Correction Factor	Sample Weight (g)	Oven-Dried Sample Weight (g)	Total Oven-Dried Sample Weight (g)	Specific Gravity (g/cm ³)	Elapsed Time (min)	Hydrometer Reading	ASTM Depth	Composite Correction	Corrected Reading	Temperature (°C)	ASTM Alpha Correction	ASTM K Value	Largest Particle Passing (mm)	Percent Passing
24PA-42.50-45.00-D	8/4/06	59.4	0.992	116.25	115.37	194.08	2.554	2	14	14.0	4.60	9.40	21.0	1.02	0.01391	0.0368	4.9
								5	12	14.3		7.40				0.0235	3.9
								15	11	14.5		6.40				0.0137	3.4
								45	10	14.7		5.40				0.0080	2.8
								120	9	14.8		4.40				0.0049	2.3
24PA-47.50-50.00-D	8/4/06	85.5	0.992	115.64	114.68	134.12	2.558	2	12	14.3	4.60	7.40	21.0	1.02	0.01391	0.0372	5.6
								5	11	14.5		6.40				0.0237	4.9
								15	10	14.7		5.40				0.0138	4.1
								45	9	14.8		4.40				0.0080	3.3
								120	8	15.0		3.40				0.0049	2.6
24PA-52.50-55.00-D	8/4/06	65.1	0.990	114.91	113.78	174.68	2.566	2	13	14.2	4.60	8.40	21.0	1.02	0.01391	0.0371	4.9
								5	11	14.5		6.40				0.0237	3.7
								15	10	14.7		5.40				0.0138	3.2
								45	8	15.0		3.40				0.0080	2.0
								120	7	15.2		2.40				0.0050	1.4
24PA-57.50-60.00-D	8/4/06	20.7	0.988	115.25	113.82	551.11	2.575	2	15	13.8	4.60	10.40	21.0	1.01	0.01369	0.0360	1.9
								5	13	14.2		8.40				0.0231	1.5
								15	12	14.3		7.40				0.0134	1.4
								45	11	14.5		6.40				0.0078	1.2
								120	10	14.7		5.40				0.0048	1.0
24PA-62.50-65.00-D	8/7/06	50.0	0.985	116.56	114.82	229.67	2.569	2	17	13.5	4.80	12.20	20.0	1.02	0.01408	0.0366	5.4
								5	15	13.8		10.20				0.0234	4.5
								15	13	14.2		8.20				0.0137	3.6
								45	11	14.5		6.20				0.0080	2.8
								120	10	14.7		5.20				0.0049	2.3
24PA-67.50-70.00-D	8/7/06	27.5	0.986	115.41	113.80	413.12	2.585	2	18	13.3	4.80	13.20	20.0	1.01	0.01386	0.0357	3.2
								5	16	13.7		11.20				0.0229	2.7
								15	14	14.0		9.20				0.0134	2.2
								45	12	14.3		7.20				0.0078	1.8
								120	10	14.7		5.20				0.0049	1.3
24PA-72.50-75.00-D	8/7/06	29.8	0.992	113.61	112.68	378.02	2.556	2	12	14.3	4.80	7.20	20.0	1.02	0.01408	0.0376	1.9
								5	11	14.5		6.20				0.0240	1.7
								15	10	14.7		5.20				0.0139	1.4
								45	9	14.8		4.20				0.0081	1.1
								120	8	15.0		3.20				0.0050	0.9
24PA-77.50-80.00-D	8/7/06	47.9	0.986	115.82	114.24	238.37	2.554	2	17	13.5	4.80	12.20	20.0	1.02	0.01408	0.0366	5.2
								5	14	14.0		9.20				0.0236	3.9
								15	12	14.3		7.20				0.0137	3.1
								45	11	14.5		6.20				0.0080	2.7
								120	10	14.7		5.20				0.0049	2.2

Hydrometer Particle Size Analysis

Cuttings samples from NC-EWDP-24PA with specific gravity passing No. 10 sieve
(Hydrometer number 57878, type 152h)

Sample Number	Test Date	Percent Passing No. 10 Sieve	HWC No. 10 Moisture Correction Factor	Sample Weight (g)	Oven-Dried Sample Weight (g)	Total Oven-Dried Sample Weight (g)	Specific Gravity (g/cm ³)	Elapsed Time (min)	Hydrometer Reading	ASTM Depth	Composite Correction	Corrected Reading	Temperature (°C)	ASTM Alpha Correction	ASTM K Value	Largest Particle Passing (mm)	Percent Passing
24PA-82.50-85.00-D	8/7/06	21.1	0.986	116.55	114.92	543.72	2.547	2	14	14.0	4.80	9.20	20.0	1.02	0.01408	0.0373	1.7
								5	13	14.2		8.20				0.0237	1.5
								15	12	14.3		7.20				0.0137	1.4
								45	10	14.7		5.20				0.0080	1.0
								120	9	14.8		4.20				0.0049	0.8
24PA-87.50-90.00-D	8/7/06	41.2	0.983	115.38	113.40	274.93	2.550	2	17	13.5	4.80	12.20	20.0	1.02	0.01408	0.0366	4.5
								5	15	13.8		10.20				0.0234	3.8
								15	13	14.2		8.20				0.0137	3.0
								45	10	14.7		5.20				0.0080	1.9
								120	9	14.8		4.20				0.0049	1.6
24PA-92.50-95.00-D	8/8/06	36.8	0.988	114.51	113.10	307.53	2.554	2	15	13.8	4.80	10.20	20.0	1.02	0.01408	0.0370	3.4
								5	13	14.2		8.20				0.0237	2.7
								15	11	14.5		6.20				0.0138	2.1
								45	9	14.8		4.20				0.0081	1.4
								120	9	14.8		4.20				0.0049	1.4
24PA-97.50-100.00-D	8/8/06	40.9	0.987	115.36	113.84	278.45	2.546	2	16	13.7	4.80	11.20	20.0	1.02	0.01408	0.0369	4.1
								5	14	14.0		9.20				0.0236	3.4
								15	12	14.3		7.20				0.0137	2.6
								45	10	14.7		5.20				0.0080	1.9
								120	9	14.8		4.20				0.0049	1.5
24PA-102.50-105.00-D	8/8/06	39.5	0.991	117.11	116.10	294.20	2.569	2	17	13.5	4.80	12.20	20.0	1.02	0.01408	0.0366	4.2
								5	14	14.0		9.20				0.0236	3.2
								15	11	14.5		6.20				0.0138	2.1
								45	10	14.7		5.20				0.0080	1.8
								120	9	14.8		4.20				0.0049	1.5
24PA-107.50-110.00-D	8/8/06	47.1	0.981	116.91	114.74	243.66	2.568	2	18	13.3	4.80	13.20	20.0	1.02	0.01408	0.0363	5.5
								5	16	13.7		11.20				0.0233	4.7
								15	14	14.0		9.20				0.0136	3.9
								45	13	14.2		8.20				0.0079	3.4
								120	12	14.3		7.20				0.0049	3.0
24PA-112.50-115.00-D	8/8/06	38.5	0.979	114.46	112.09	291.04	2.556	2	16	13.7	4.80	11.20	20.0	1.02	0.01408	0.0369	3.9
								5	14	14.0		9.20				0.0236	3.2
								15	11	14.5		6.20				0.0138	2.2
								45	10	14.7		5.20				0.0080	1.8
								120	9	14.8		4.20				0.0049	1.5
24PA-117.50-120.00-D	8/8/06	43.5	0.984	116.83	114.94	264.43	2.563	2	16	13.7	4.80	11.20	20.0	1.02	0.01408	0.0369	4.3
								5	14	14.0		9.20				0.0236	3.5
								15	12	14.3		7.20				0.0137	2.8
								45	11	14.5		6.20				0.0080	2.4
								120	9	14.8		4.20				0.0049	1.6

Hydrometer Particle Size Analysis

Cuttings samples from NC-EWDP-24PA with specific gravity passing No. 10 sieve
(Hydrometer number 57878, type 152h)

Sample Number	Test Date	Percent Passing No. 10 Sieve	HWC No. 10 Moisture Correction Factor	Sample Weight (g)	Oven-Dried Sample Weight (g)	Total Oven-Dried Sample Weight (g)	Specific Gravity (g/cm ³)	Elapsed Time (min)	Hydrometer Reading	ASTM Depth	Composite Correction	Corrected Reading	Temperature (°C)	ASTM Alpha Correction	ASTM K Value	Largest Particle Passing (mm)	Percent Passing
24PA-122.50-125.00-D	8/10/06	61.2	0.987	114.76	113.29	185.25	2.569	2	12	14.3	4.80	7.20	20.0	1.02	0.01408	0.0376	4.0
								5	10	14.7		5.20				0.0241	2.9
								15	8	15.0		3.20				0.0141	1.8
								45	7	15.2		2.20				0.0082	1.2
								120	6	15.3		1.20				0.0050	0.7
24PA-127.50-130.00-D	8/10/06	47.8	0.987	115.92	114.44	239.59	2.530	2	11	14.5	4.80	6.20	20.0	1.02	0.01408	0.0379	2.6
								5	10	14.7		5.20				0.0241	2.2
								15	9	14.8		4.20				0.0140	1.8
								45	8	15.0		3.20				0.0081	1.4
								120	7	15.2		2.20				0.0050	0.9
24PA-132.50-135.00-D	8/10/06	49.4	0.987	116.46	114.92	232.70	2.569	2	9	14.8	4.80	4.20	20.0	1.02	0.01408	0.0383	1.8
								5	7	15.2		2.20				0.0245	1.0
								15	6	15.3		1.20				0.0142	0.5
								45	4	15.5		-0.80				0.0083	-0.4
								120	4	15.5		-0.80				0.0051	-0.4
24PA-137.50-140.00-D	8/10/06	33.6	0.989	113.41	112.11	333.35	2.534	2	13	14.2	4.80	8.20	20.0	1.02	0.01408	0.0375	2.5
								5	11	14.5		6.20				0.0240	1.9
								15	10	14.7		5.20				0.0139	1.6
								45	9	14.8		4.20				0.0081	1.3
								120	8	15.0		3.20				0.0050	1.0
24PA-142.50-145.00-D	8/10/06	36.5	0.989	114.64	113.35	310.61	2.509	2	9	14.8	4.80	4.20	20.0	1.03	0.01431	0.0389	1.4
								5	7	15.2		2.20				0.0250	0.7
								15	6	15.8		1.20				0.0147	0.4
								45	5	15.5		0.20				0.0084	0.1
								120	5	15.5		0.20				0.0051	0.1
24PA-147.50-150.00-D	8/10/06	32.5	0.987	115.49	114.03	350.79	2.549	2	17	13.5	4.80	12.20	20.0	1.02	0.01408	0.0366	3.5
								5	14	14.0		9.20				0.0236	2.7
								15	12	14.3		7.20				0.0137	2.1
								45	10	14.7		5.20				0.0080	1.5
								120	9	14.8		4.20				0.0049	1.2

Wet Sieve Particle Size Analysis

Cuttings samples from NC-EWDP-24PA

Sample Number	Test Start Date	Sample Weight (g)	Hygroscopic Moisture Correction Factor (g/g)	Oven Dried Sample Weight (g)	Percent of Sample Passing								
					3-inch Sieve	1½-inch Sieve	¾-inch Sieve	3/8-inch Sieve	No. 4 Sieve	No. 10 Sieve	No. 40 Sieve	No. 100 Sieve	No. 200 Sieve
24PA-2.50-5.00-D	7/24/06	507.1	0.990	501.9	100.0	100.0	97.8	95.7	91.0	85.3	67.1	24.7	10.4
24PA-7.50-10.00-D	7/24/06	687.1	0.985	677.1	100.0	100.0	100.0	95.4	80.5	64.4	36.7	11.6	6.0
24PA-12.50-15.00-D	7/24/06	939.9	0.988	928.3	100.0	100.0	100.0	81.1	62.8	50.3	27.6	8.6	5.0
24PA-17.50-20.00-D	7/24/06	930.4	0.989	920.5	100.0	100.0	100.0	86.3	69.5	54.3	29.8	11.8	6.8
24PA-22.50-25.00-D	7/24/06	428.0	0.991	423.9	100.0	100.0	100.0	94.7	88.6	82.7	64.9	18.9	7.7
24PA-27.50-30.00-D	7/25/06	601.5	0.991	596.1	100.0	100.0	100.0	88.7	73.2	58.6	32.4	15.4	10.2
24PA-32.50-35.00-D	7/25/06	758.9	0.989	750.7	100.0	100.0	100.0	91.4	73.2	52.4	23.9	10.1	7.0
24PA-37.50-40.00-D	7/25/06	718.5	0.990	711.4	100.0	100.0	100.0	96.1	88.2	80.0	56.0	19.5	9.4
24PA-42.50-45.00-D	7/25/06	654.6	0.993	650.2	100.0	100.0	100.0	89.2	76.6	59.4	30.6	11.7	7.2
24PA-47.50-50.00-D	7/25/06	912.7	0.992	905.2	100.0	100.0	100.0	92.7	89.4	85.5	65.8	14.3	7.3
24PA-52.50-55.00-D	7/26/06	691.0	0.989	683.5	100.0	100.0	100.0	90.5	80.4	65.1	34.8	12.7	6.5
24PA-57.50-60.00-D	7/26/06	887.4	0.985	874.1	100.0	100.0	97.3	73.1	35.5	20.7	13.3	5.6	2.5
24PA-62.50-65.00-D	7/26/06	957.5	0.984	942.1	100.0	100.0	100.0	80.3	64.7	50.0	31.4	13.4	7.2
24PA-67.50-70.00-D	7/26/06	1188.8	0.976	1160.2	100.0	100.0	88.0	62.1	42.5	27.5	14.7	7.0	4.0
24PA-72.50-75.00-D	7/26/06	824.3	0.987	813.8	100.0	100.0	97.1	72.0	51.0	29.8	10.0	3.2	1.8
24PA-77.50-80.00-D	7/27/06	645.6	0.976	630.1	100.0	100.0	96.3	82.2	64.4	47.9	30.2	10.4	4.7
24PA-82.50-85.00-D	7/27/06	666.1	0.983	655.1	100.0	100.0	88.5	59.7	37.1	21.1	8.4	2.3	1.2
24PA-87.50-90.00-D	7/27/06	786.0	0.981	770.7	100.0	100.0	91.4	70.6	55.2	41.2	22.8	8.6	5.2
24PA-92.50-95.00-D	7/27/06	967.1	0.986	953.3	100.0	100.0	89.2	68.8	53.4	36.8	16.4	6.6	3.8
24PA-97.50-100.00-D	7/27/06	579.3	0.986	571.2	100.0	100.0	96.0	81.8	60.1	40.9	16.3	7.5	5.2
24PA-102.50-105.00-D	7/28/06	788.2	0.992	781.7	100.0	100.0	89.9	72.7	56.8	39.5	18.5	9.0	5.8

Wet Sieve Particle Size Analysis

Cuttings samples from NC-EWDP-24PA

Sample Number	Test Start Date	Sample Weight (g)	Hygroscopic Moisture Correction Factor (g/g)	Oven Dried Sample Weight (g)	Percent of Sample Passing								
					3-inch Sieve	1½-inch Sieve	¾-inch Sieve	3/8-inch Sieve	No. 4 Sieve	No. 10 Sieve	No. 40 Sieve	No. 100 Sieve	No. 200 Sieve
24PA-107.50-110.00-D	7/28/06	838.1	0.978	819.4	100.0	100.0	95.8	78.9	65.6	47.1	19.3	9.2	6.4
24PA-112.50-115.00-D	7/28/06	801.8	0.979	785.4	100.0	100.0	100.0	81.5	59.2	38.5	17.2	7.4	4.5
24PA-117.50-120.00-D	7/28/06	798.9	0.981	784.0	100.0	100.0	96.0	82.6	67.9	43.5	18.9	8.0	5.4
24PA-122.50-125.00-D	7/28/06	720.7	0.970	699.1	100.0	100.0	95.2	81.9	72.6	61.2	35.1	12.1	7.0
24PA-127.50-130.00-D	7/29/06	707.8	0.987	698.7	100.0	100.0	94.5	84.0	69.0	47.8	18.5	7.2	4.0
24PA-132.50-135.00-D	7/29/06	627.3	0.984	617.0	100.0	100.0	92.6	76.2	64.4	49.4	22.9	7.1	3.1
24PA-137.50-140.00-D	7/29/06	513.0	0.989	507.5	100.0	100.0	87.7	65.5	49.0	33.6	14.1	4.8	2.6
24PA-142.50-145.00-D	7/29/06	739.6	0.985	728.6	100.0	100.0	87.4	70.3	53.3	36.5	13.5	3.9	2.0
24PA-147.50-150.00-D	7/29/06	882.7	0.981	866.3	100.0	100.0	88.6	68.2	50.5	32.5	14.0	6.0	3.8