

**HYDROGEOLOGICAL INVESTIGATION AND DESIGN REPORT
HIGHWAY 404 EXTENSION
FROM GREEN LANE TO QUEENSVILLE SIDEROAD
ONTARIO
VOLUME 2
G.W.P. 2109-05-00**

Geocres Number: 31D-491

**Report to
Philips Engineering / Hatch Mott MacDonald Joint Venture**

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February 16 2010
File: 19-1605-95

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APPENDIX E

SELECTED GEOTECHNICAL LABORATORY RESULTS

GRAIN SIZE DISTRIBUTION CURVES

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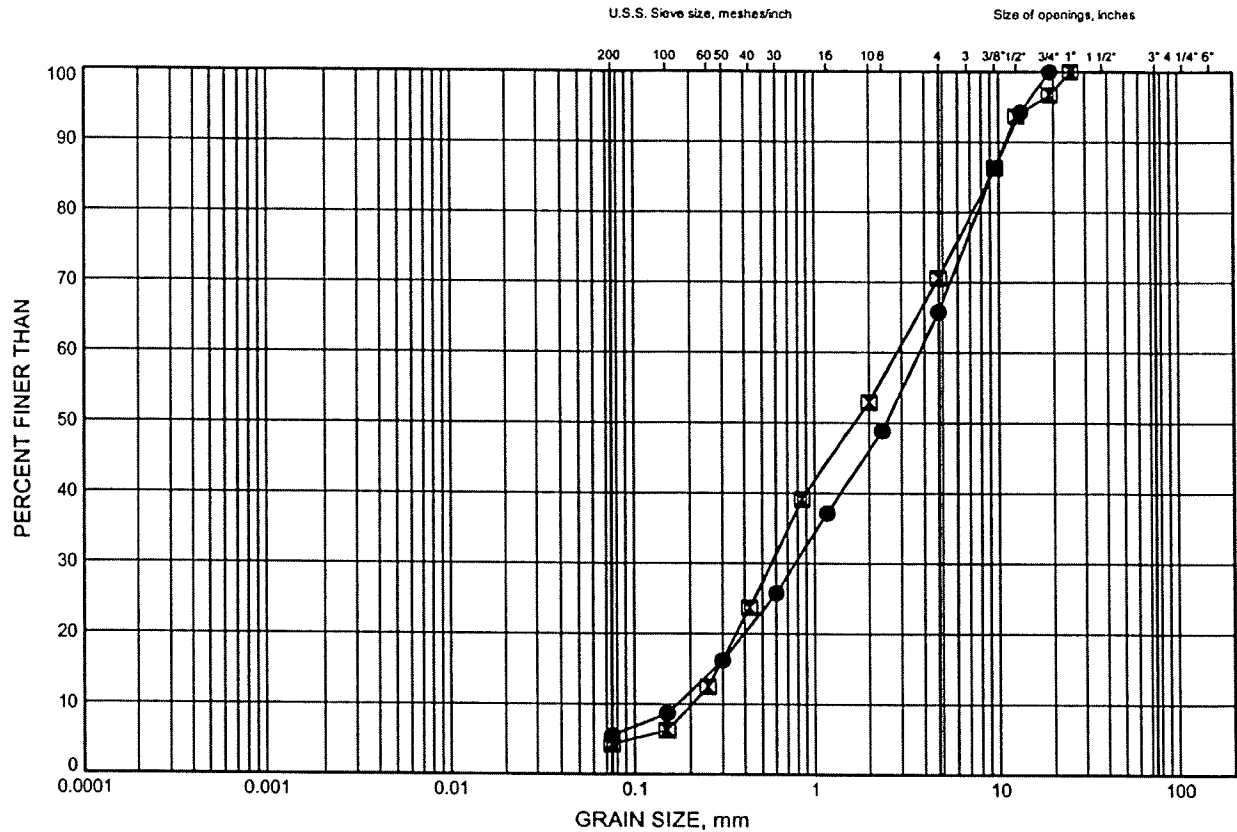
ATTERBERG LIMITS PLOTS

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Hwy 404 Extension GRAIN SIZE DISTRIBUTION

FIGURE E1

GRAVELLY SAND FILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-35	0.46	277.19
◻	08-41	0.46	263.24

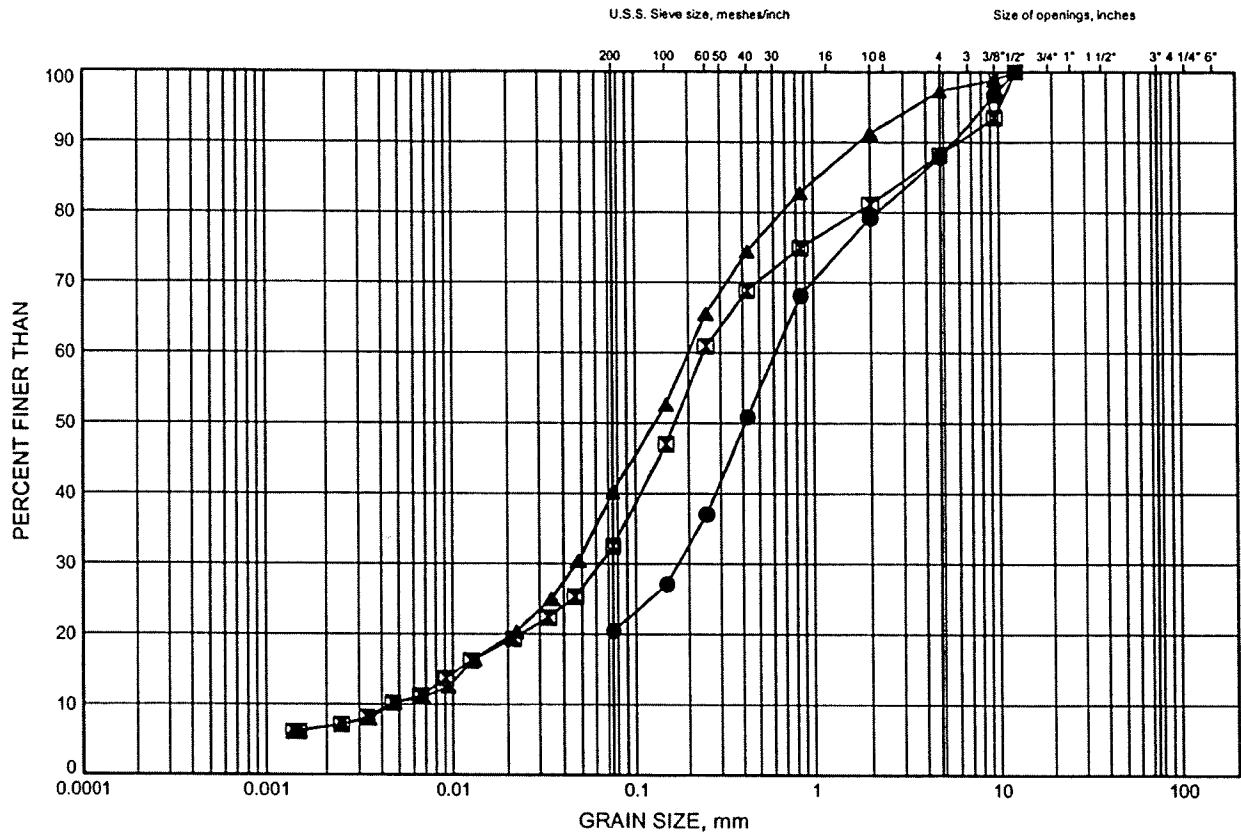


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FIGURE E2

SILTY SAND FILL & SAND FILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-42	0.91	263.53
⊠	08-43	0.99	262.87
▲	08-47	2.82	254.56

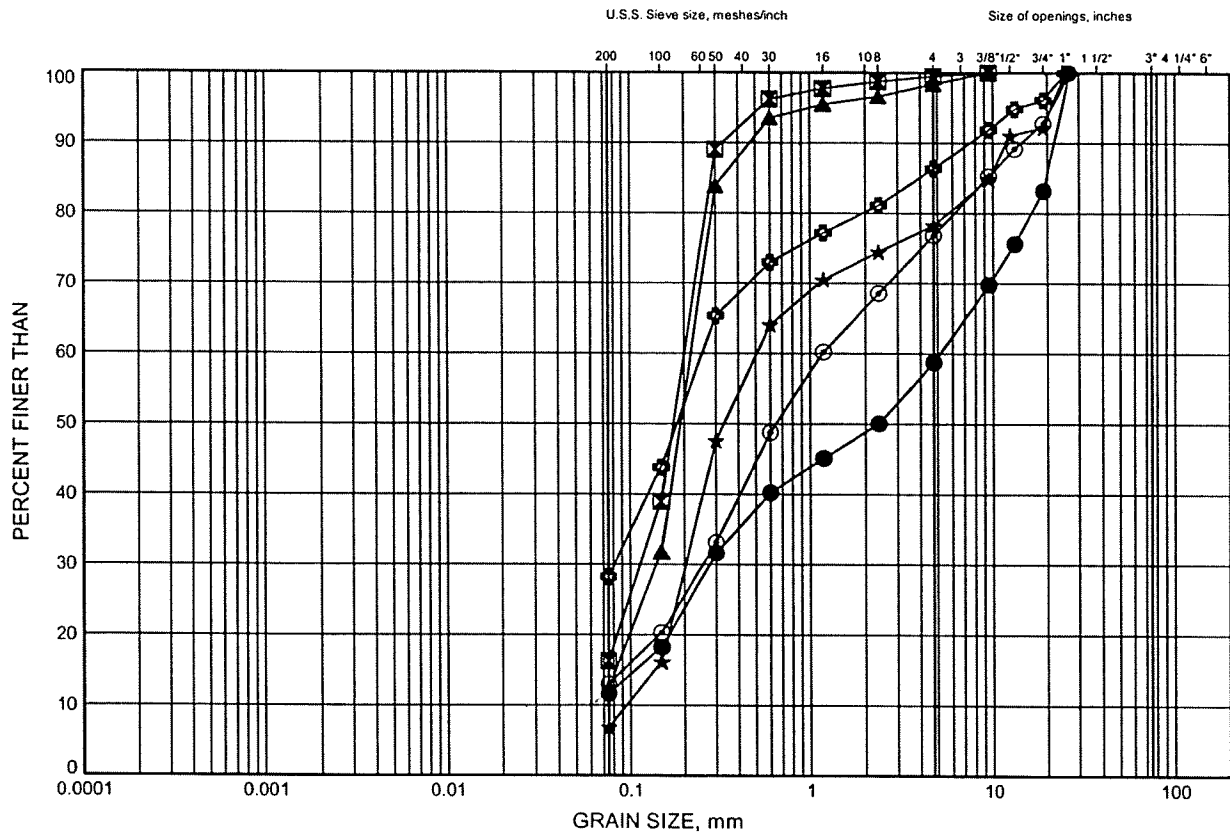


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FIGURE E3

SAND to SAND & GRAVEL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-18	1.68	265.33
⊠	08-24	13.75	
▲	08-25	15.28	
★	08-45	10.79	247.48
⊙	08-48	3.35	262.28
⊕	QSR3-2	10.60	244.91

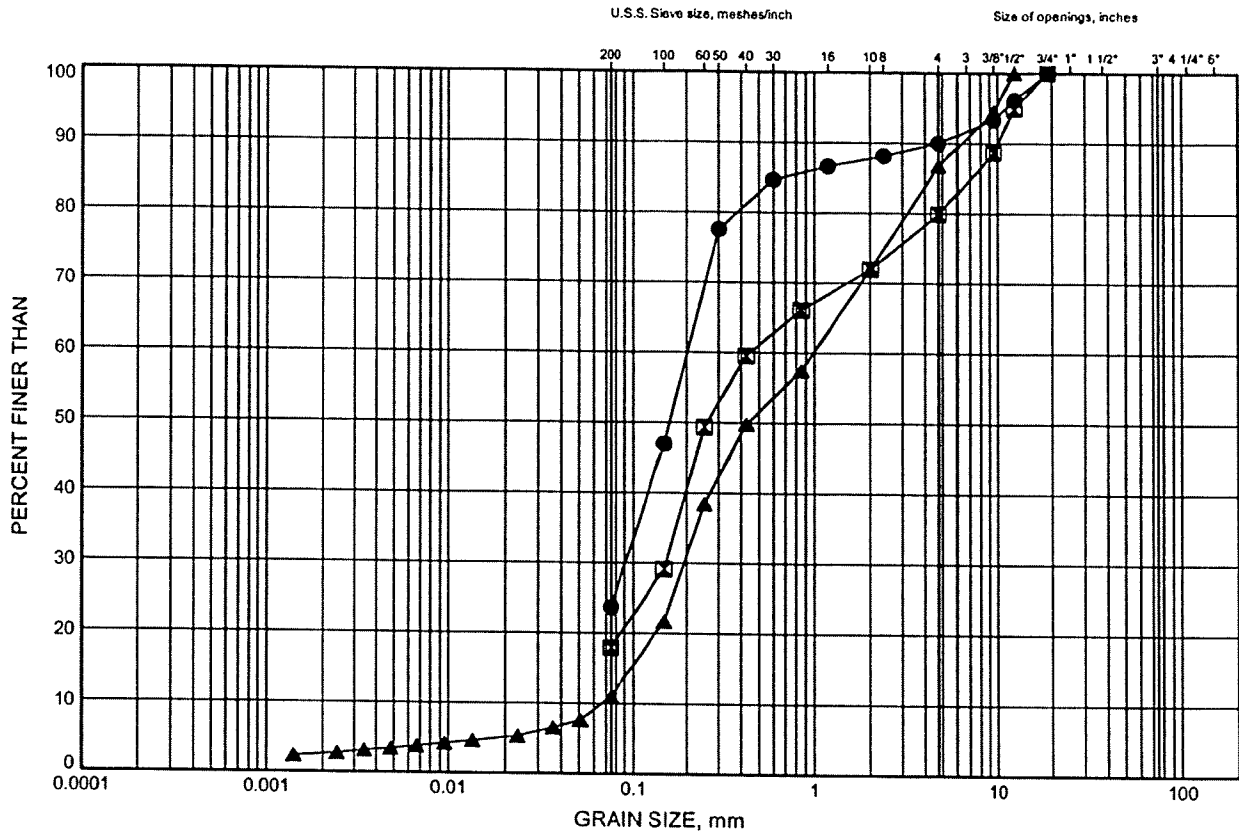


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FIGURE E4

SAND to SAND & GRAVEL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

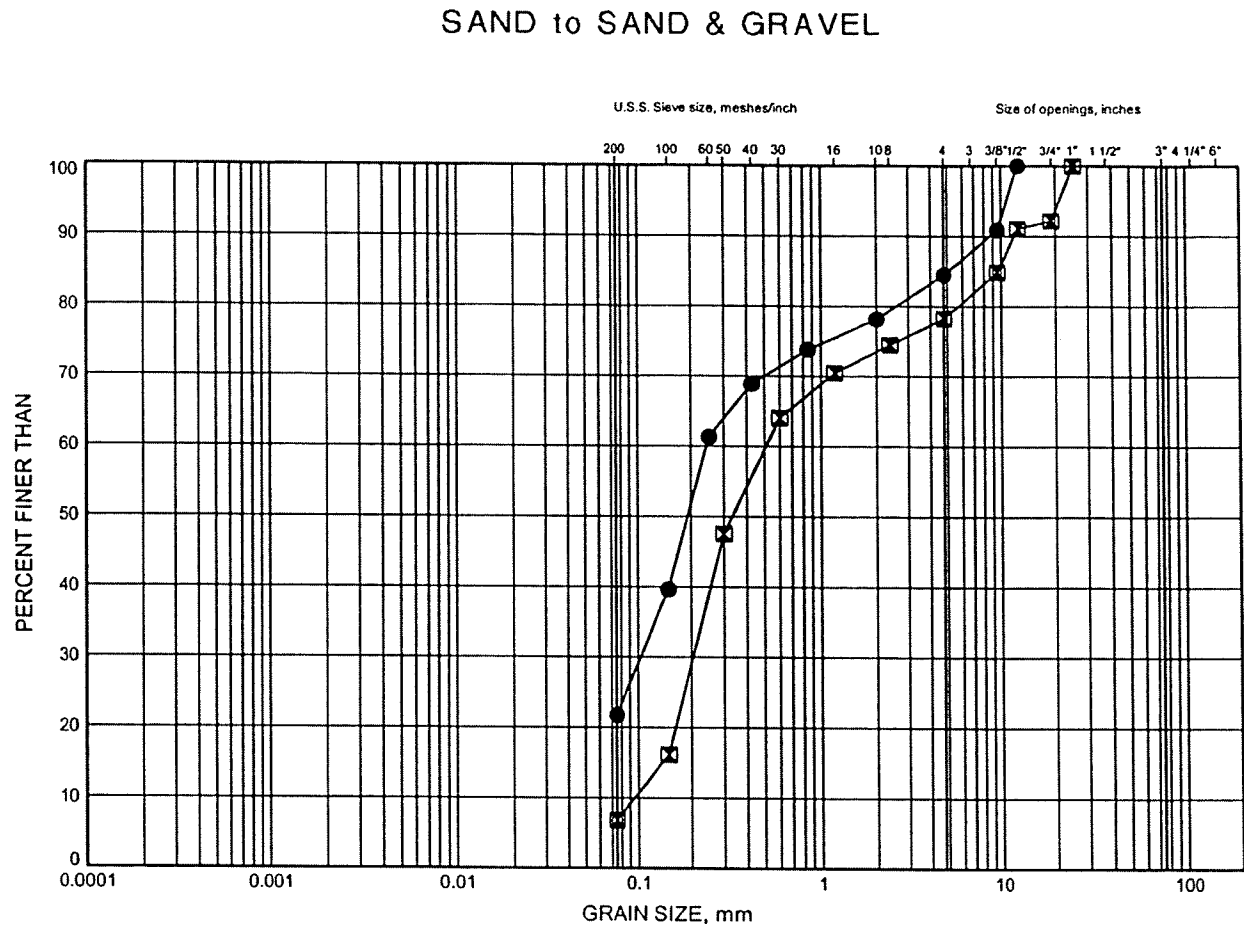
SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-36	1.75	271.73
⊠	08-44	2.51	256.58
▲	08-61	1.07	283.83



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FIGURE E5



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

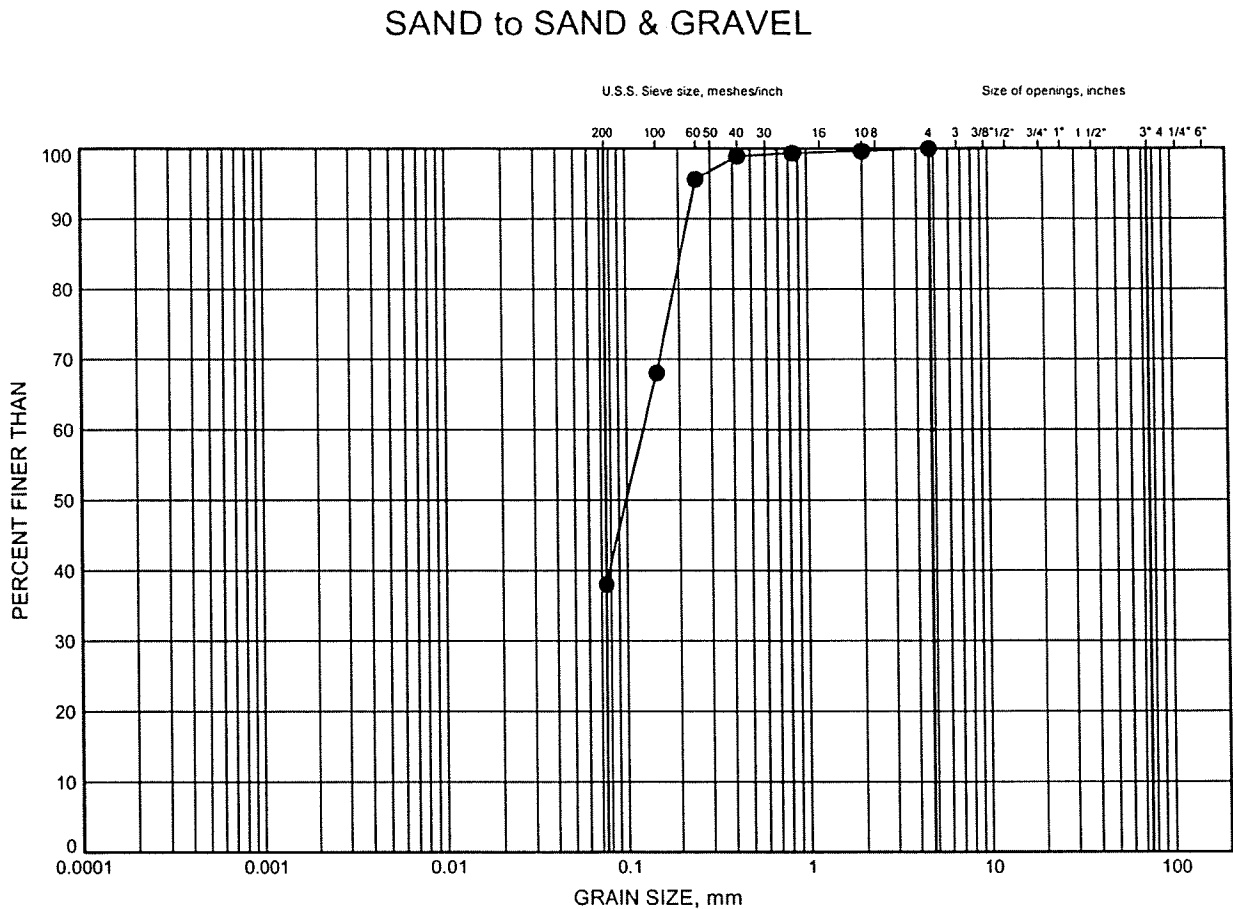
SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-45	9.27	249.00
☒	08-45	10.79	247.48



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GRAIN SIZE DISTRIBUTION

FIGURE E6



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	QSR3-3	10.60	245.24

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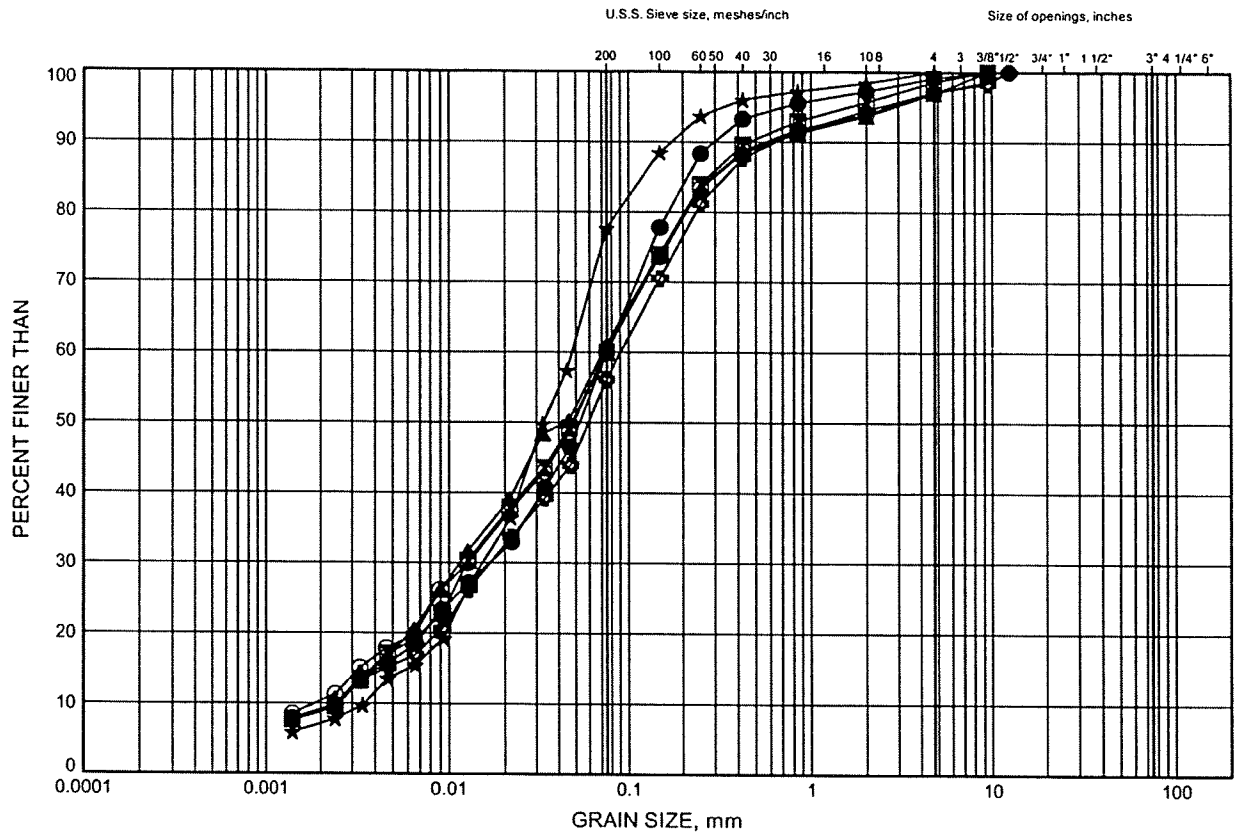
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FIGURE E7

SAND & SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-15	1.07	289.40
⊠	08-15	3.26	287.21
▲	08-15	6.17	284.30
★	08-16	1.83	287.79
⊙	08-16	2.59	287.03
⊛	08-17	1.83	286.35

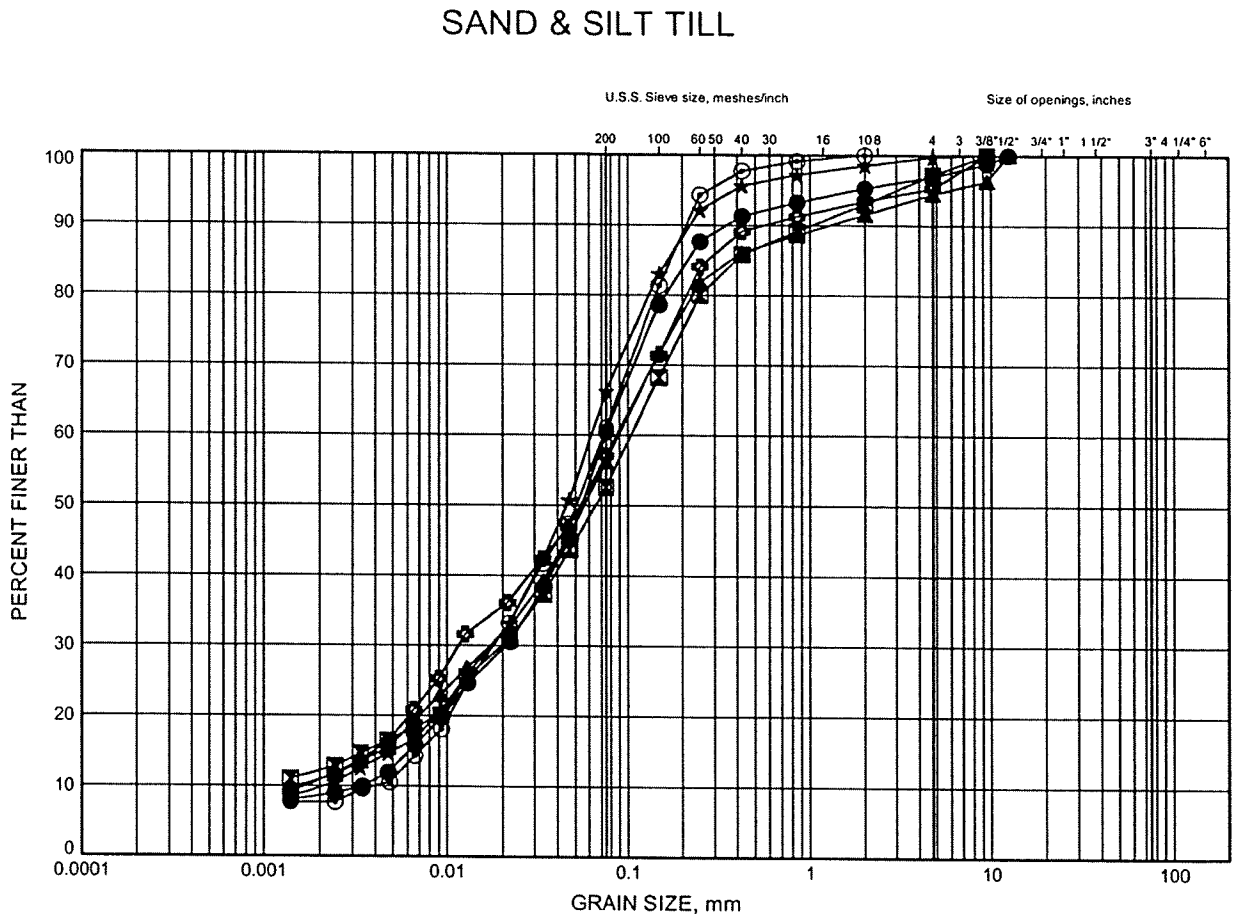
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FIGURE E8



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-18	7.67	259.34
⊠	08-19	6.13	262.47
▲	08-20	7.68	261.02
★	08-21	6.17	261.93
⊙	08-22	3.25	264.76
⊕	08-23	4.65	269.29

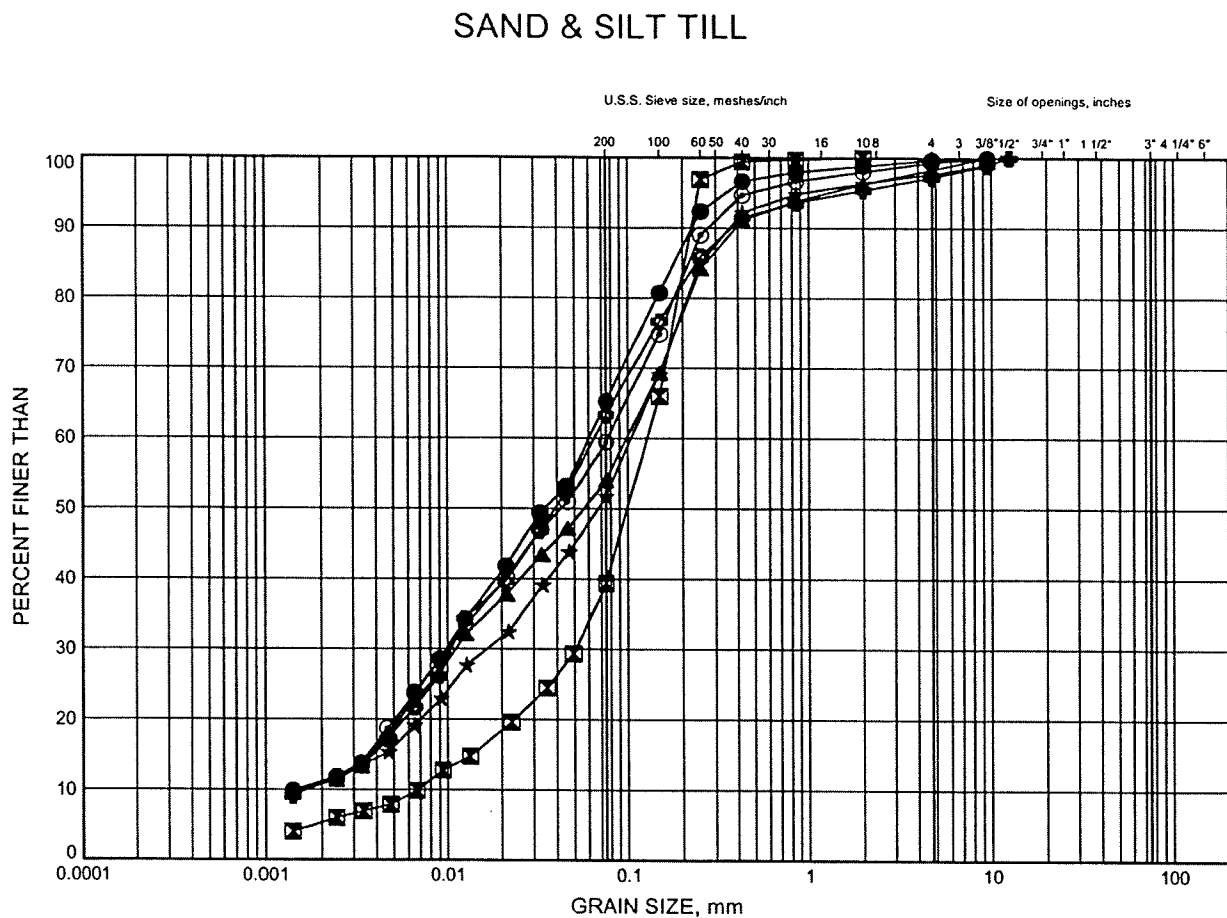
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FIGURE E9



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-23	7.70	266.24
⊠	08-23	12.27	261.67
▲	08-24	2.51	
★	08-25	0.99	
⊙	08-25	3.28	
⊕	08-26	1.75	

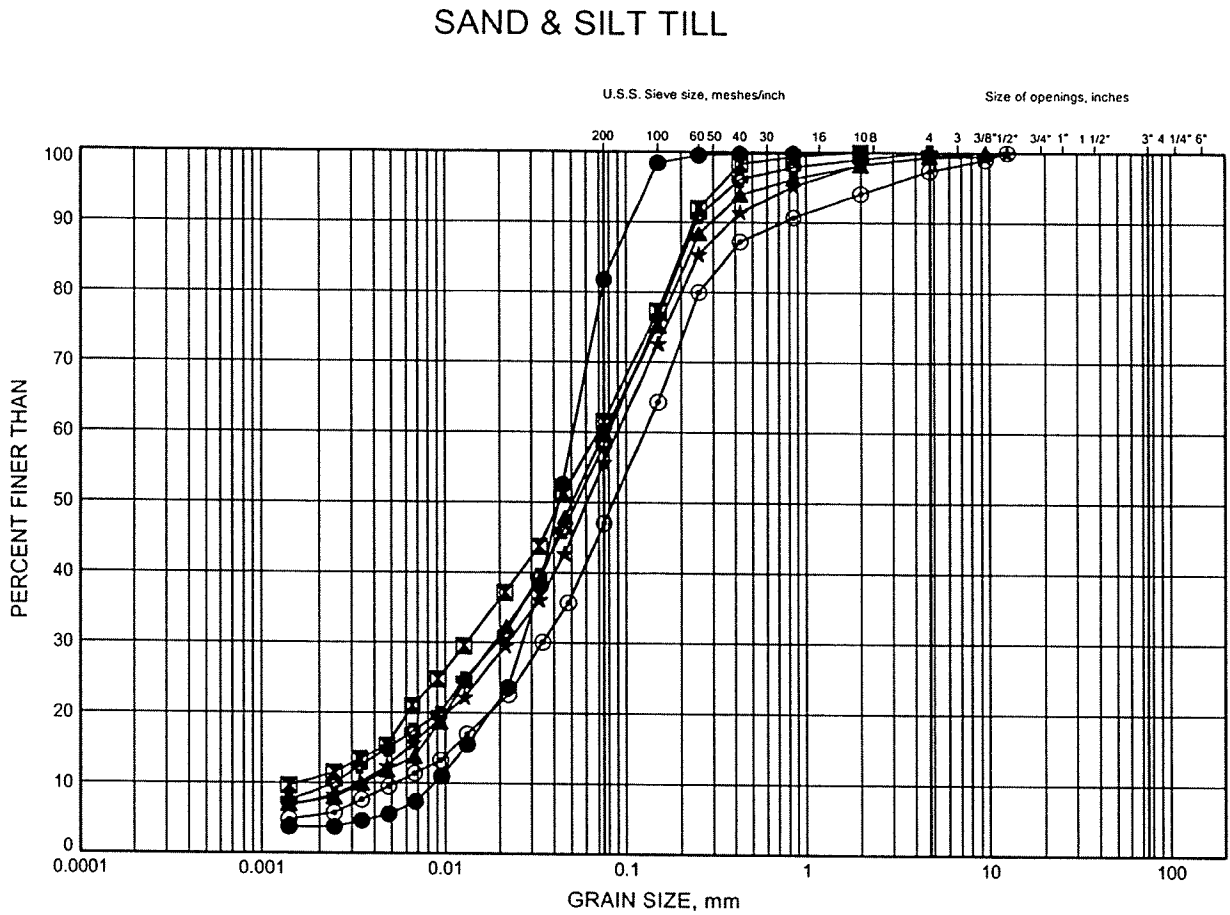


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FIGURE E10



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-26	6.17	
⊠	08-26	18.31	
▲	08-43	3.28	260.58
★	08-44	4.80	254.29
⊙	08-44	7.85	251.24
⊗	08-44	10.73	248.36

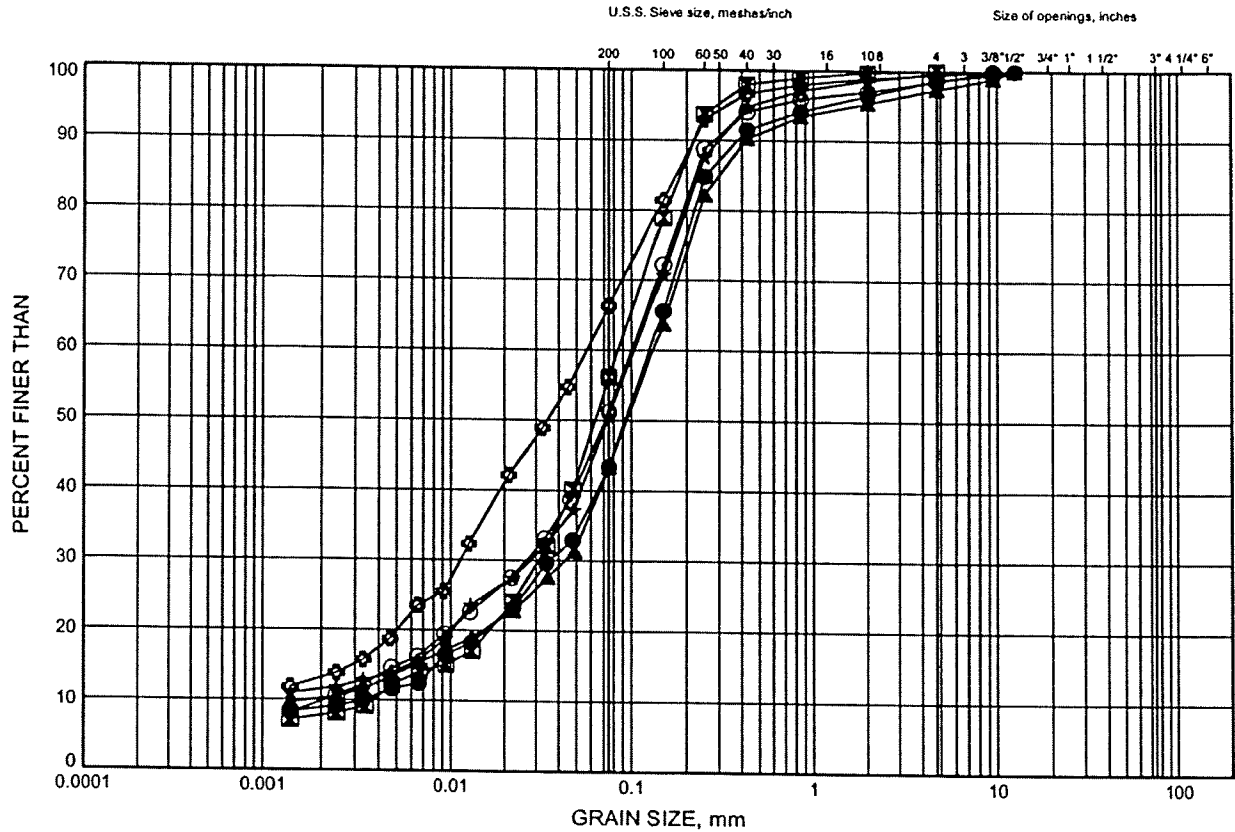


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FIGURE E11

SAND & SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-33	1.75	282.27
⊠	08-33	4.62	279.40
▲	08-33A	1.83	284.37
★	08-33A	3.35	282.85
⊙	08-34	2.51	278.82
⊕	08-34	4.80	276.53

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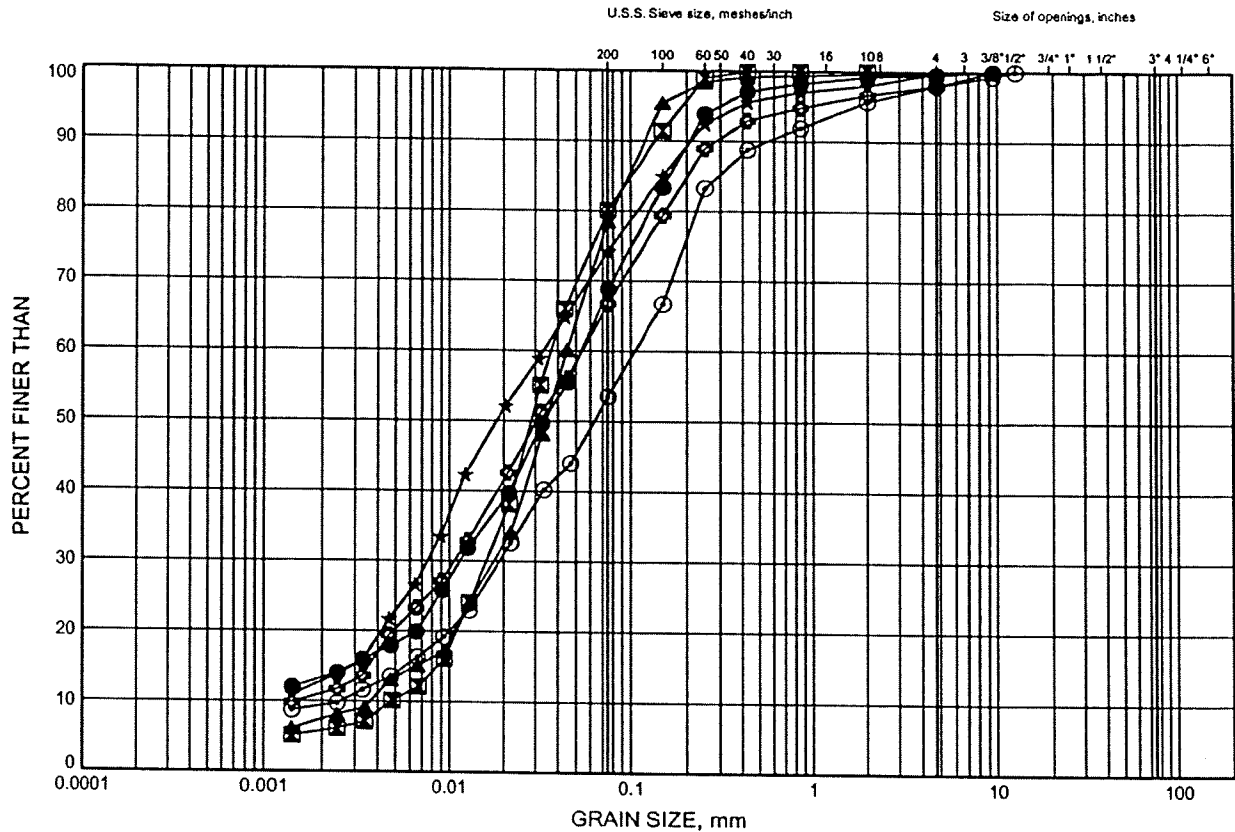
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FIGURE E12

SAND & SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

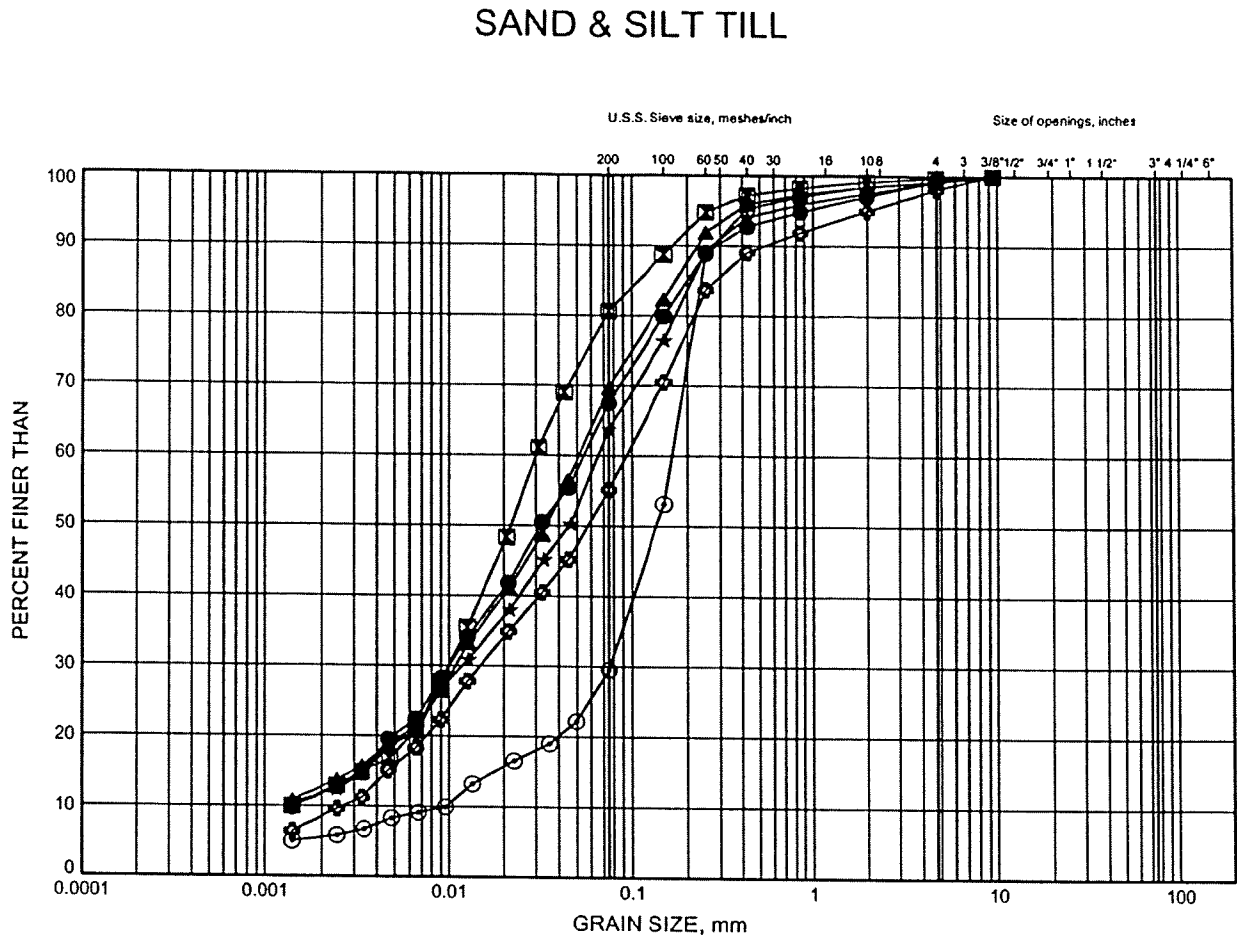
SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-35	2.51	275.14
⊠	08-35	4.71	272.94
▲	08-36	3.12	270.36
★	08-36	6.14	267.34
⊙	08-37	2.51	267.62
⊕	08-37	3.26	266.87



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FIGURE E13



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-37	6.14	263.99
⊠	08-38	2.51	264.34
▲	08-38	10.71	256.14
★	08-39	9.28	249.67
⊙	08-39	10.97	247.98
⊗	08-40	10.69	250.62

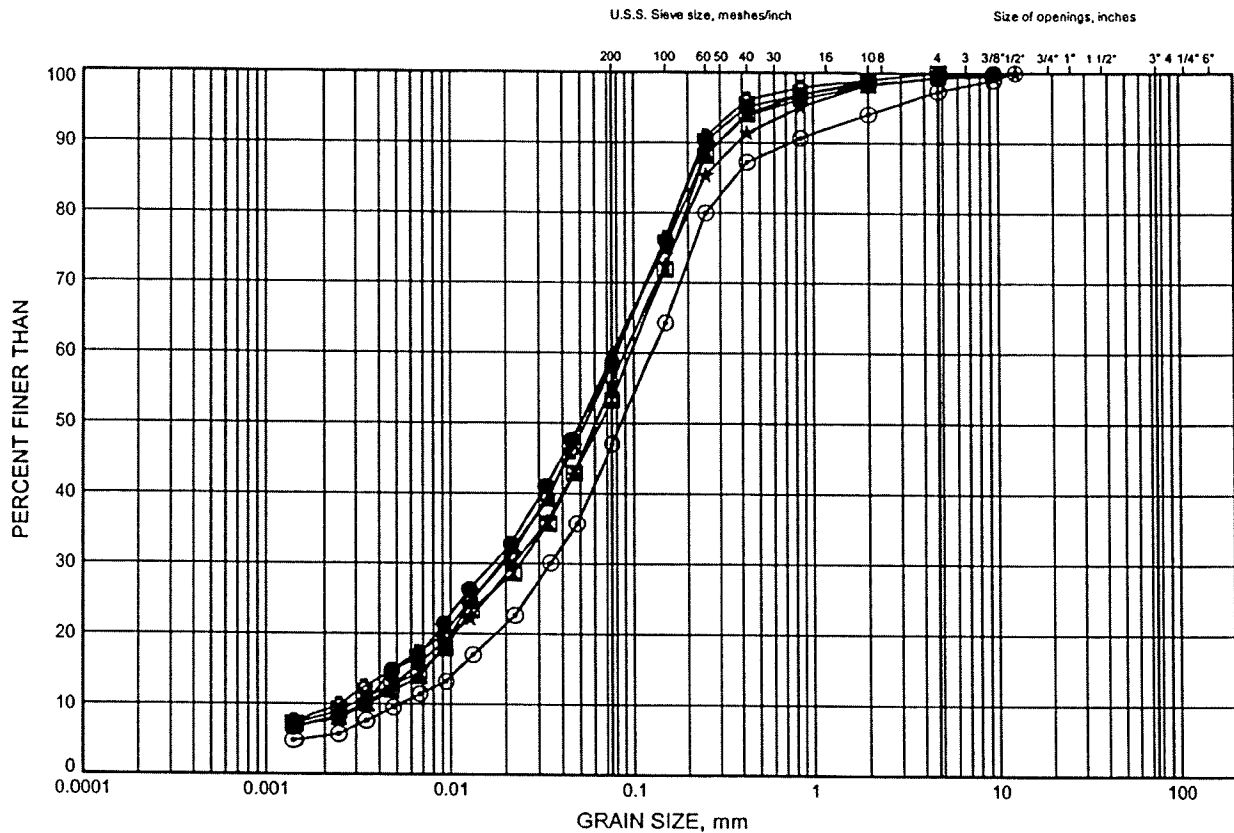


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FIGURE E14

SAND & SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE
FINE GRAINED	SAND			GRAVEL		SIZE

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-41	6.16	257.54
⊠	08-42	4.72	259.72
▲	08-43	3.28	260.58
★	08-44	4.80	254.29
⊙	08-44	7.85	251.24
⊛	08-44	10.73	248.36

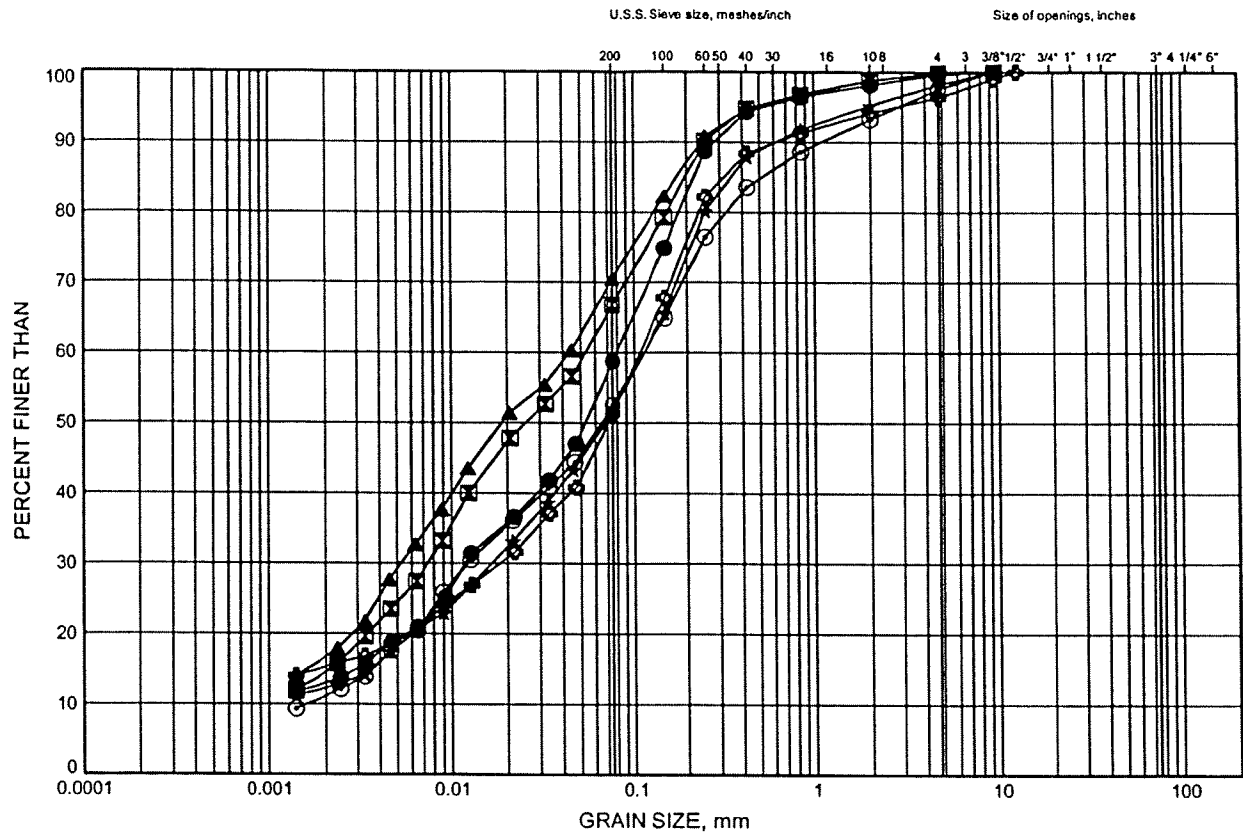


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FIGURE E15

SAND & SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

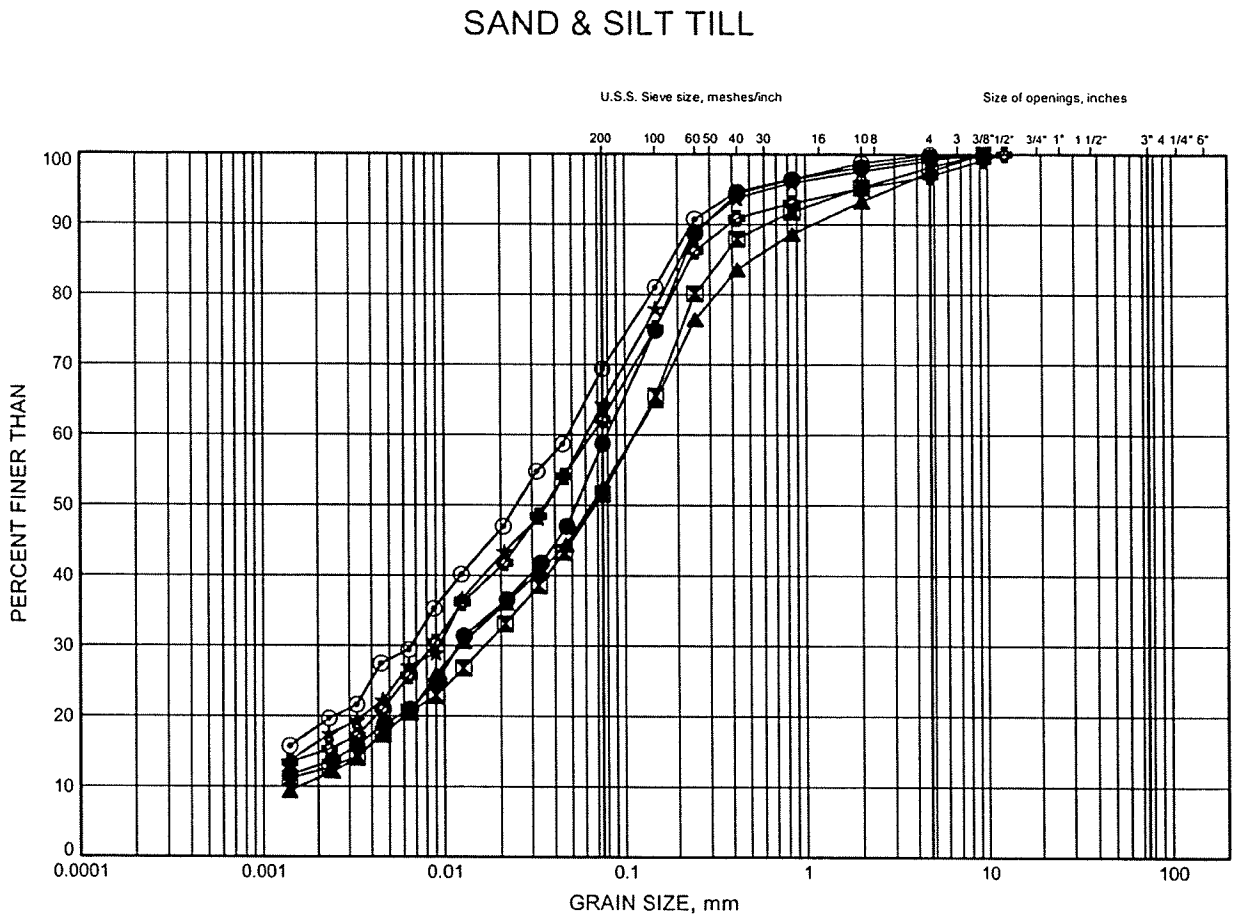
SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-45	3.28	254.99
⊠	08-45	7.85	250.42
▲	08-45	15.47	242.80
★	08-45	19.87	238.40
⊙	08-46	4.88	251.82
⊛	08-61	2.44	282.46



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FIGURE E16



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-45	3.28	254.99
⊠	08-45	19.87	238.40
▲	08-46	4.88	251.82
★	08-46	14.02	242.68
⊙	08-46	17.07	239.63
⊕	08-46	18.52	238.18

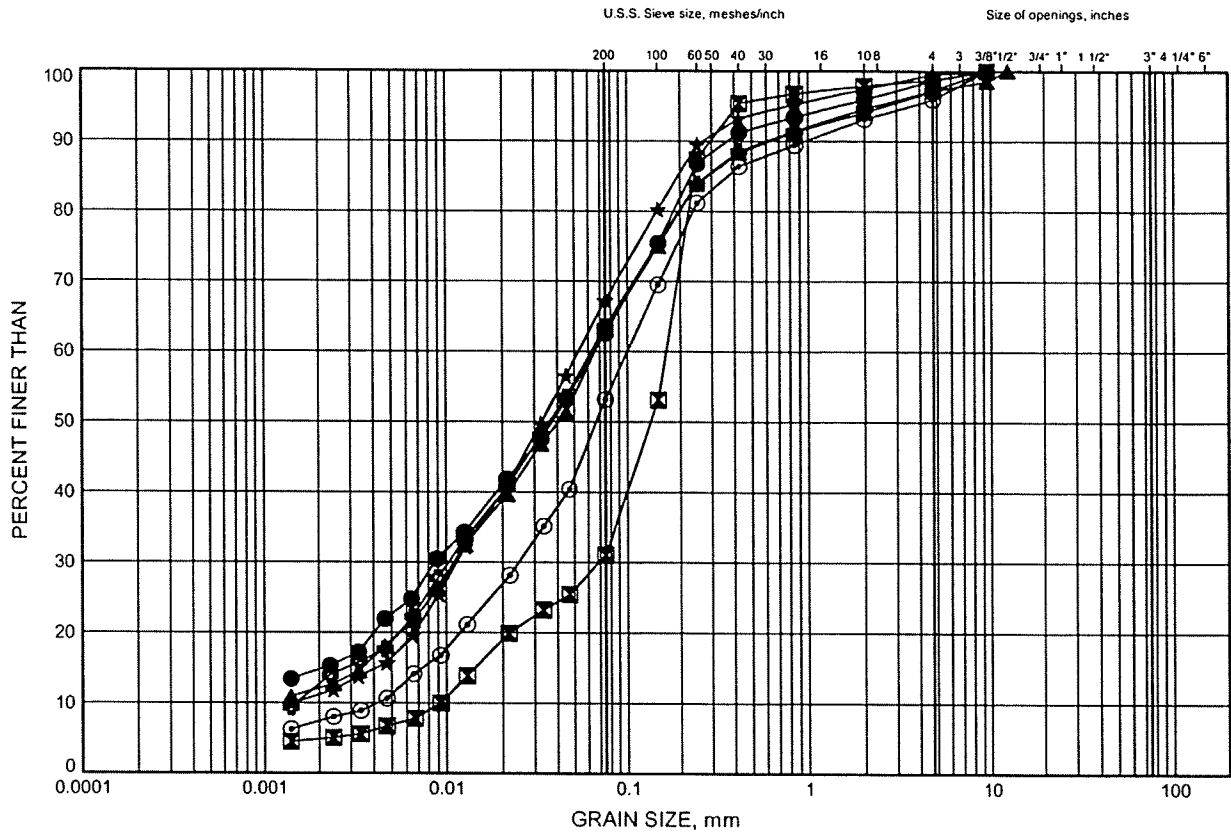


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FIGURE E17

SAND & SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE
FINE GRAINED	SAND			GRAVEL		SIZE

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-46	20.12	236.58
⊠	08-50	4.62	259.76
▲	08-51	2.59	261.05
★	08-51	6.17	257.47
⊙	08-51	9.18	254.46
⊛	08-52	1.07	261.31

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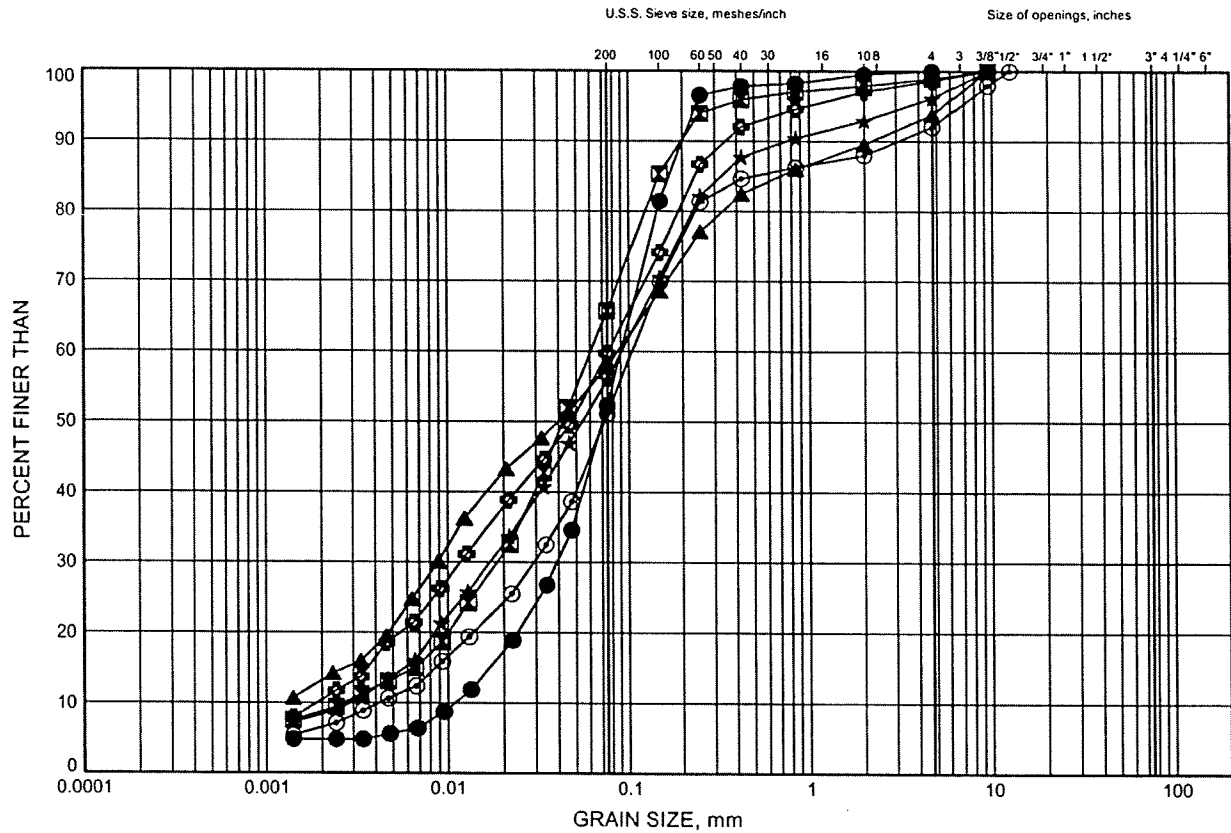
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FIGURE E18

SAND & SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-52	2.59	259.79
⊠	08-52	9.35	253.03
▲	08-53	3.47	258.67
★	08-53	9.26	252.88
⊙	08-54	7.83	253.17
⊕	MW 08-02	2.51	255.85

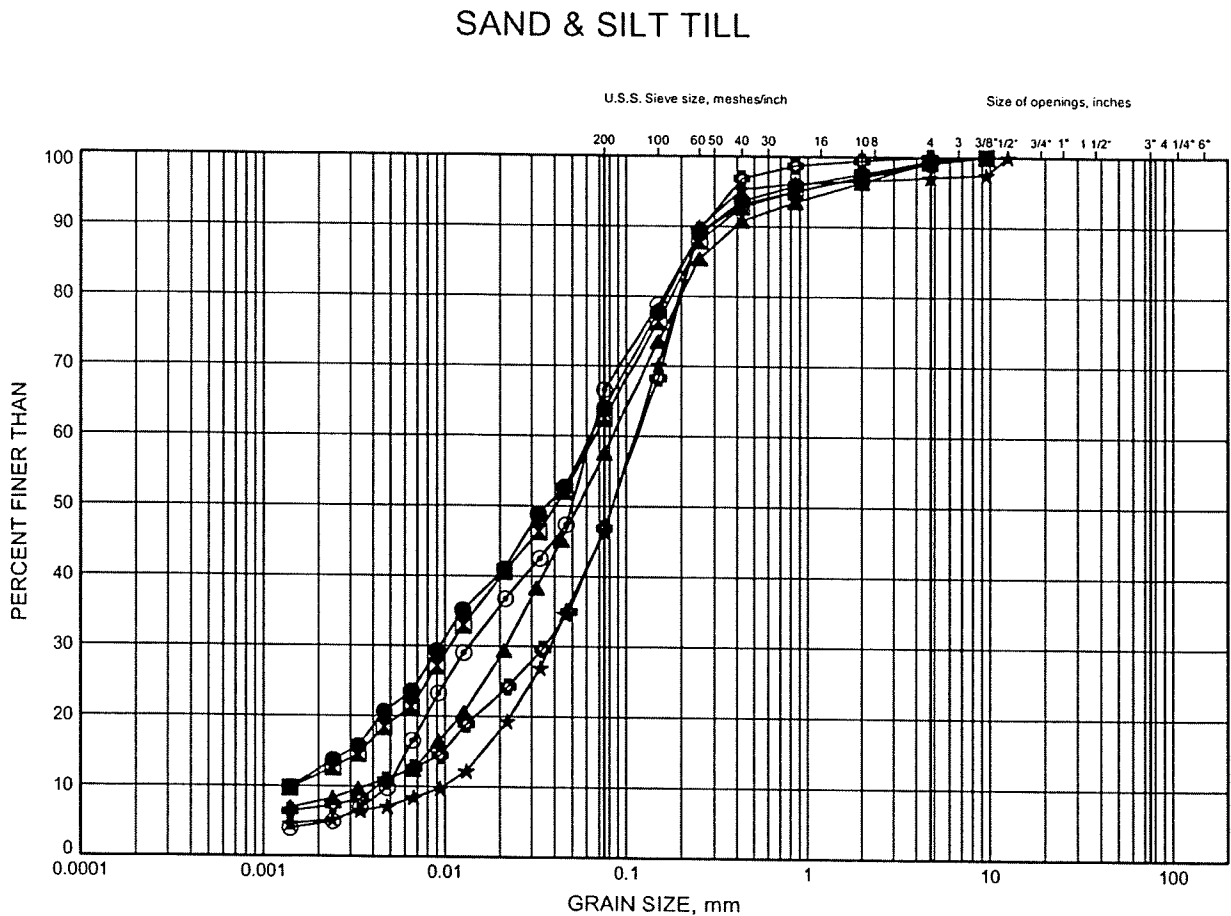
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FIGURE E19



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

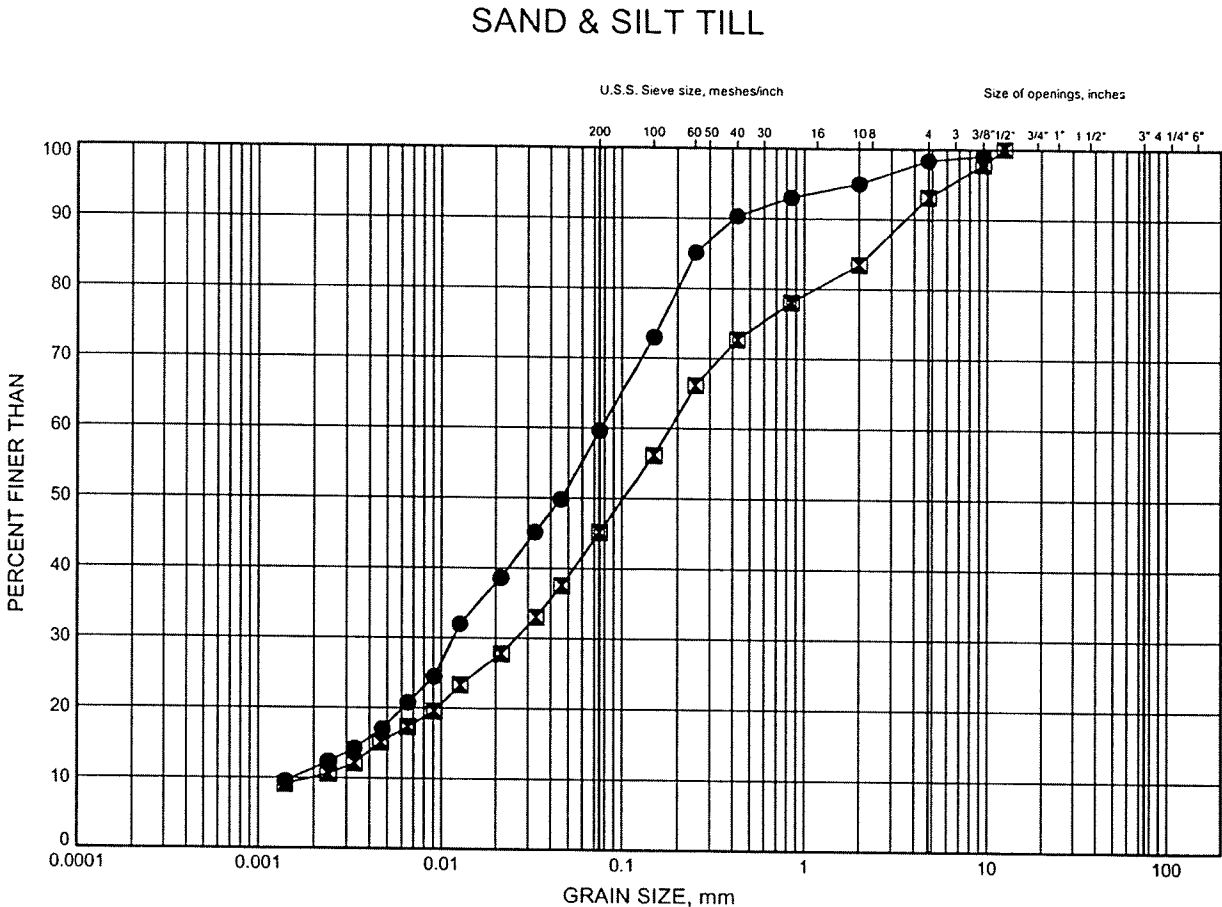
SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	MW 08-02	3.28	255.08
⊠	MW 08-02	6.32	252.04
▲	MW 08-03	3.35	260.27
★	MW 08-03	4.88	258.74
⊙	QSR2-3	6.40	250.43
⊕	QSR3-1	9.45	245.92



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FIGURE E20



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

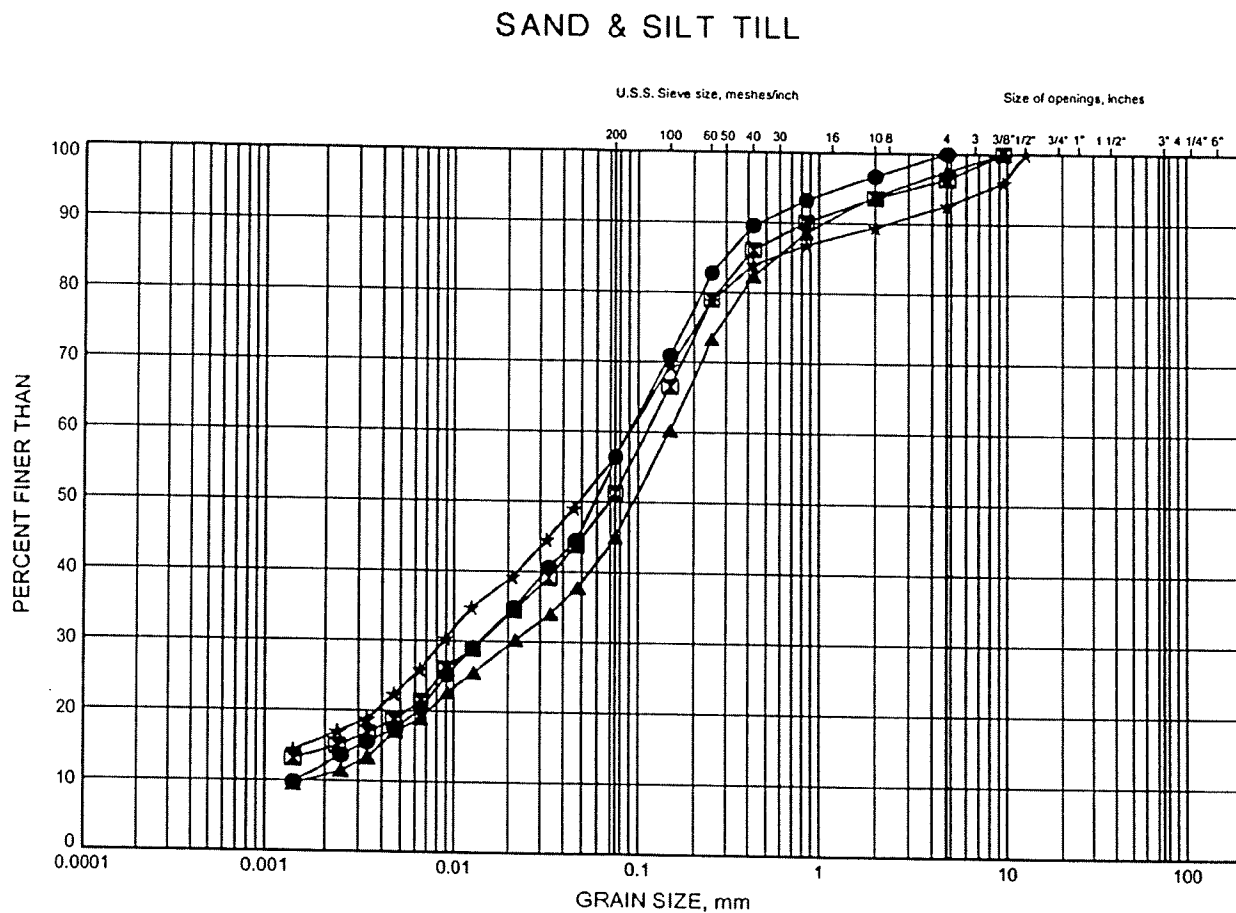
SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	QSR3-3	14.02	241.82
⊠	QSR4-3	7.92	249.23



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FIGURE E21



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	RW09-1	2.58	287.44
⊠	RW09-1	4.71	285.31
▲	RW09-2	3.12	285.20
★	RW09-3	6.17	280.87

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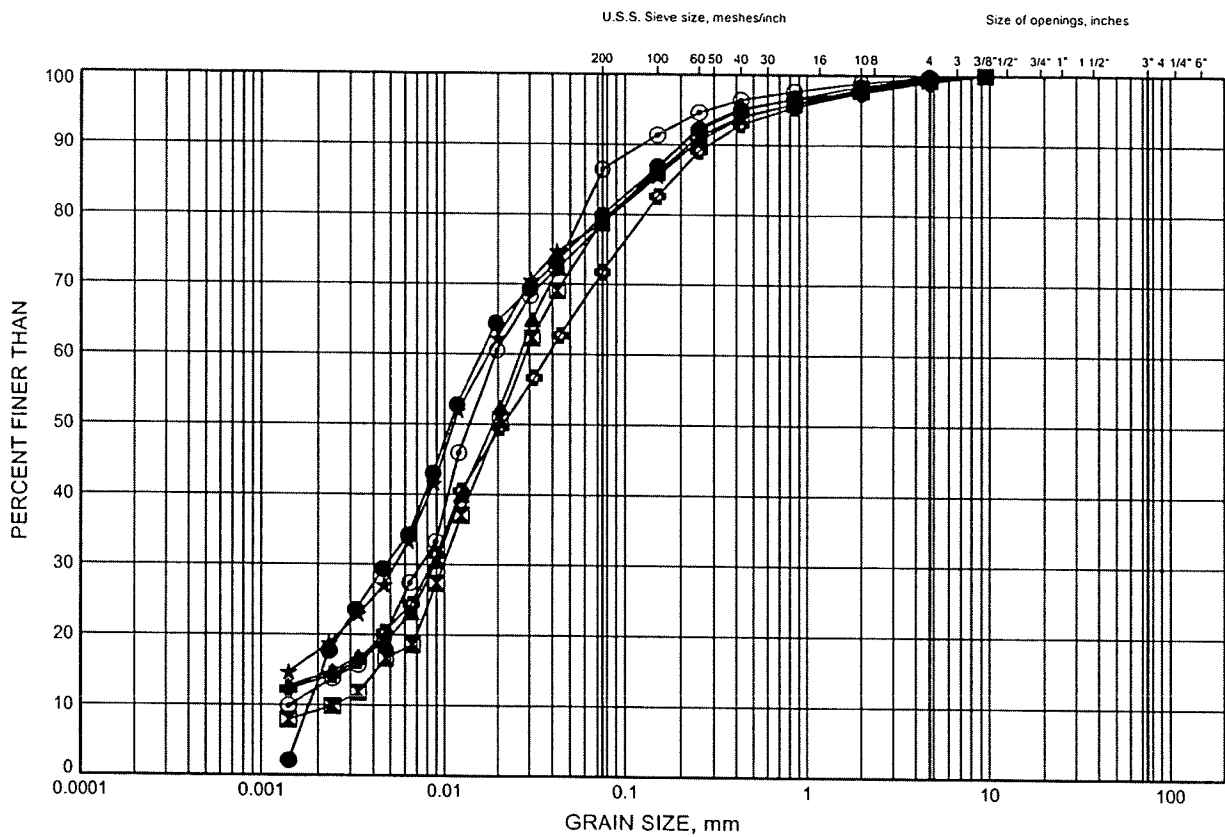
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FIGURE E22

SANDY SILT TILL to SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-16	4.76	284.86
⊠	08-17	3.35	284.83
▲	08-18	4.64	262.37
★	08-19	2.51	266.09
⊙	08-20	1.75	266.95
⊕	08-20	3.28	265.42

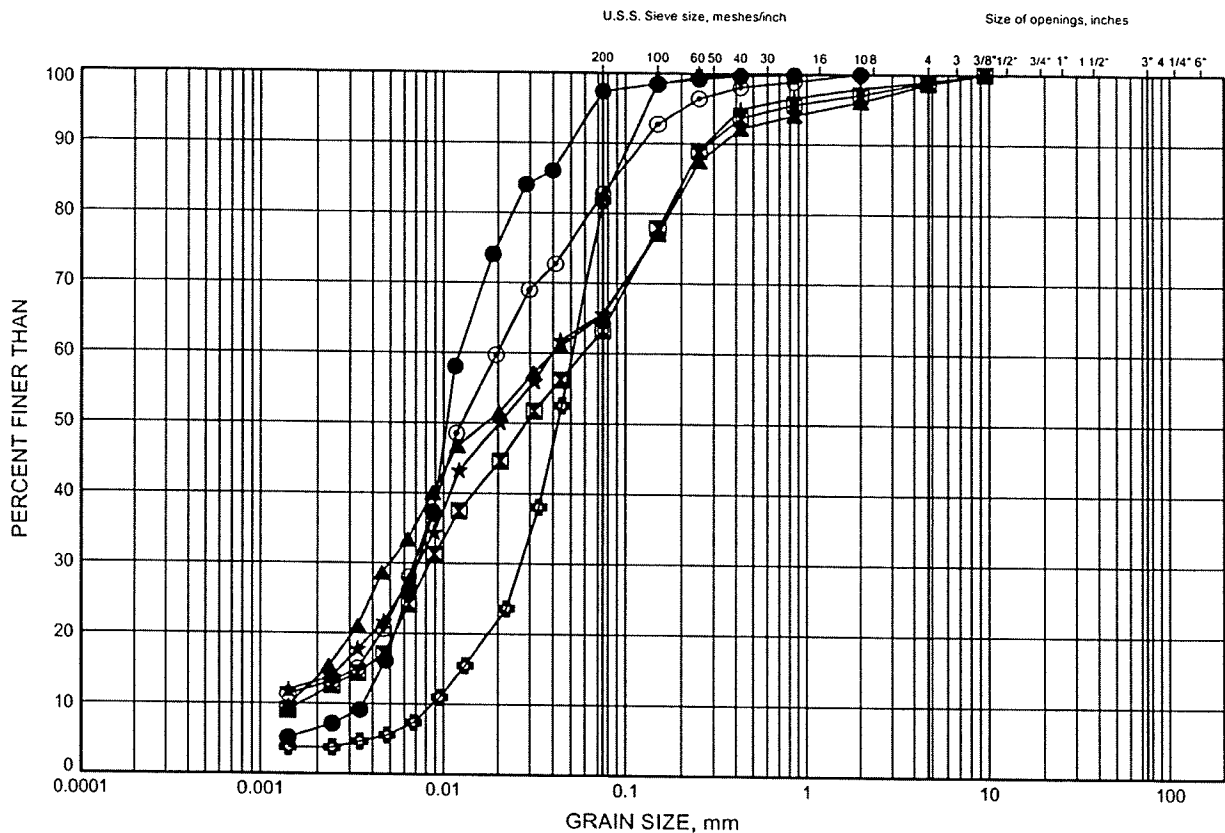


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FIGURE E23

SANDY SILT TILL to SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

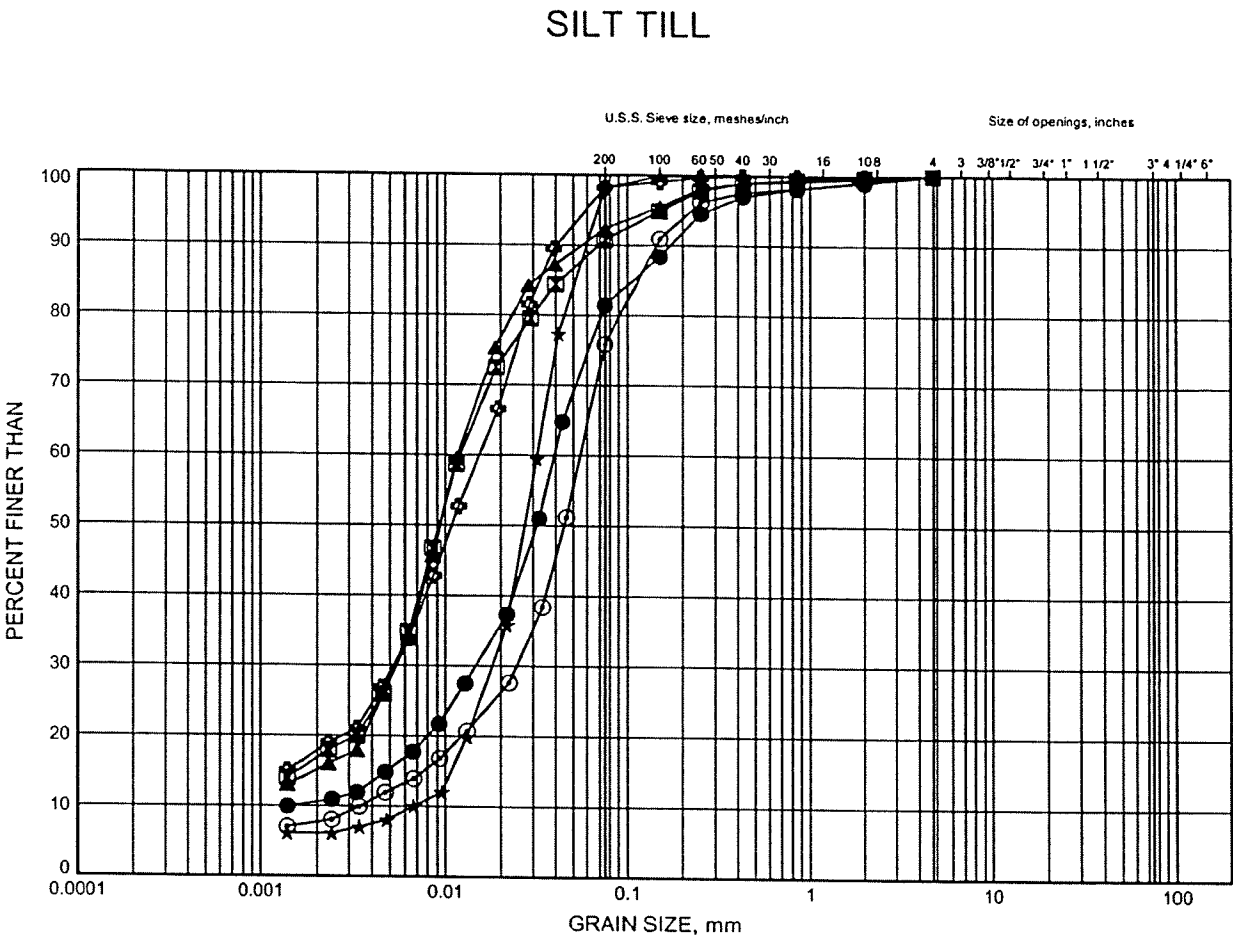
SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-21	3.28	264.82
⊠	08-23	1.83	272.11
▲	08-24	6.16	
★	08-24	10.72	
⊙	08-25	9.19	
⊕	08-26	6.17	



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FIGURE E24



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-33A	6.40	279.80
⊠	08-33A	10.97	275.23
▲	08-33A	14.02	272.18
★	08-47	24.52	232.86
⊙	08-61	9.45	275.45
⊕	08-61	10.97	273.93

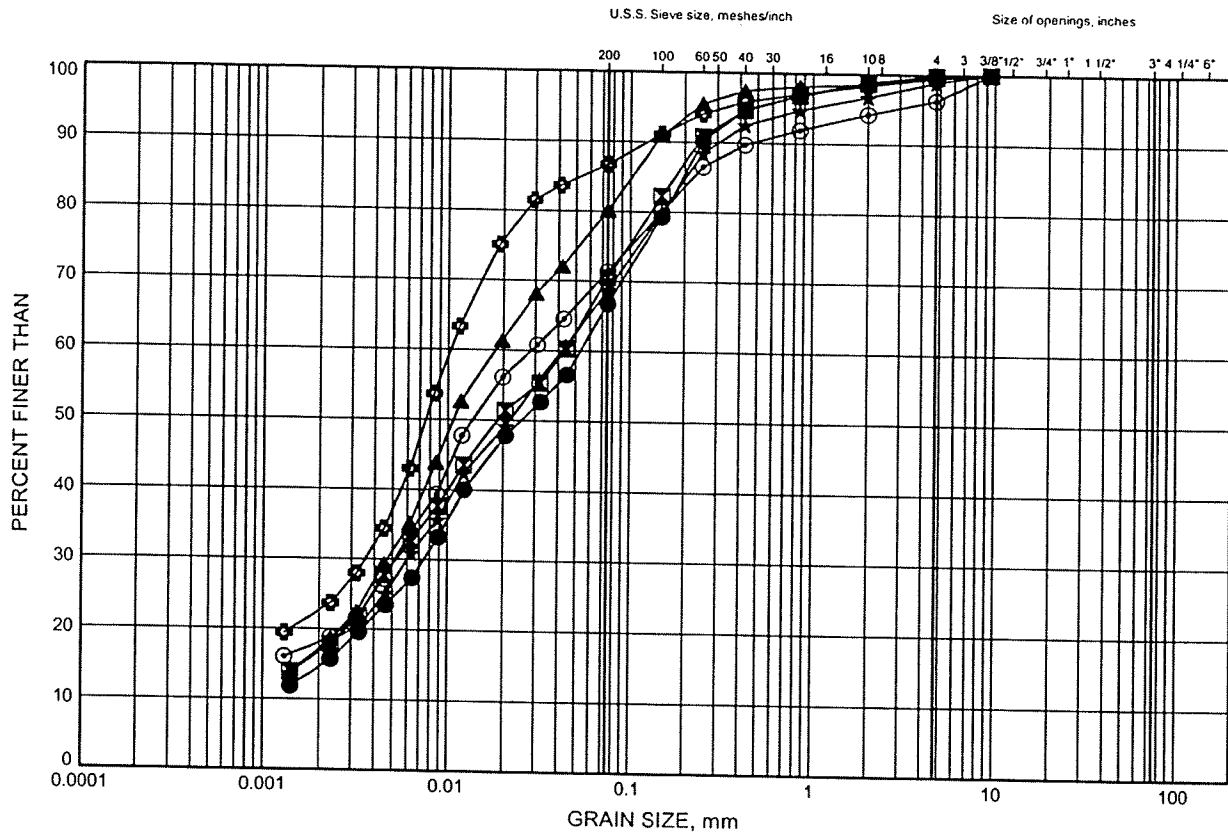


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FIGURE E25

SANDY SILT TILL to SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-45	7.85	250.42
⊠	08-45	15.47	242.80
▲	08-46	7.92	248.78
★	08-47	6.32	251.06
⊙	08-47	7.92	249.46
⊕	08-47	12.50	244.88

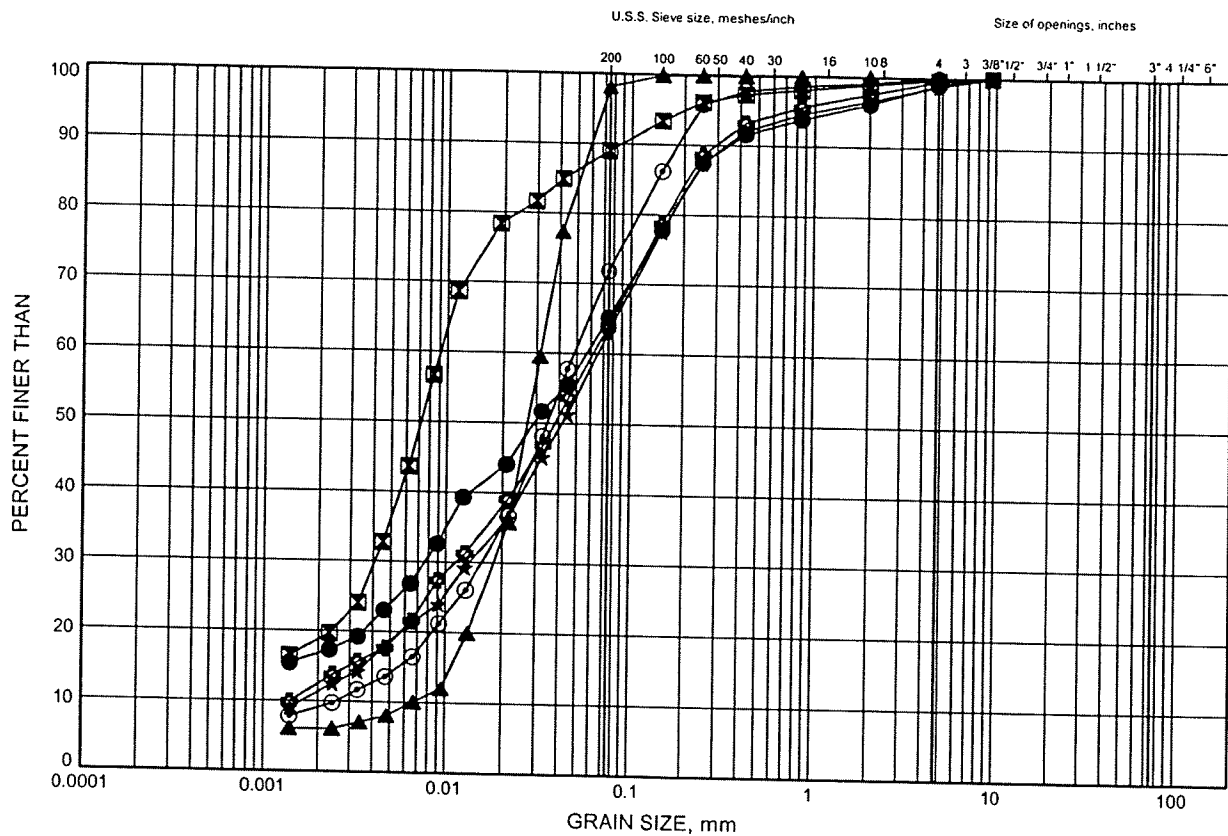


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FIGURE E26

SANDY SILT TILL to SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-47	17.07	240.31
⊠	08-47	20.12	237.26
▲	08-47	24.52	232.86
★	08-48	1.83	263.80
⊙	08-48	6.23	259.40
⊕	08-49	1.07	265.02

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FIGURE E27

U.S.S. Sieve size, meshes/inch

Size of openings, inches

PERCENT FINER THAN

GRAIN SIZE, mm

SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

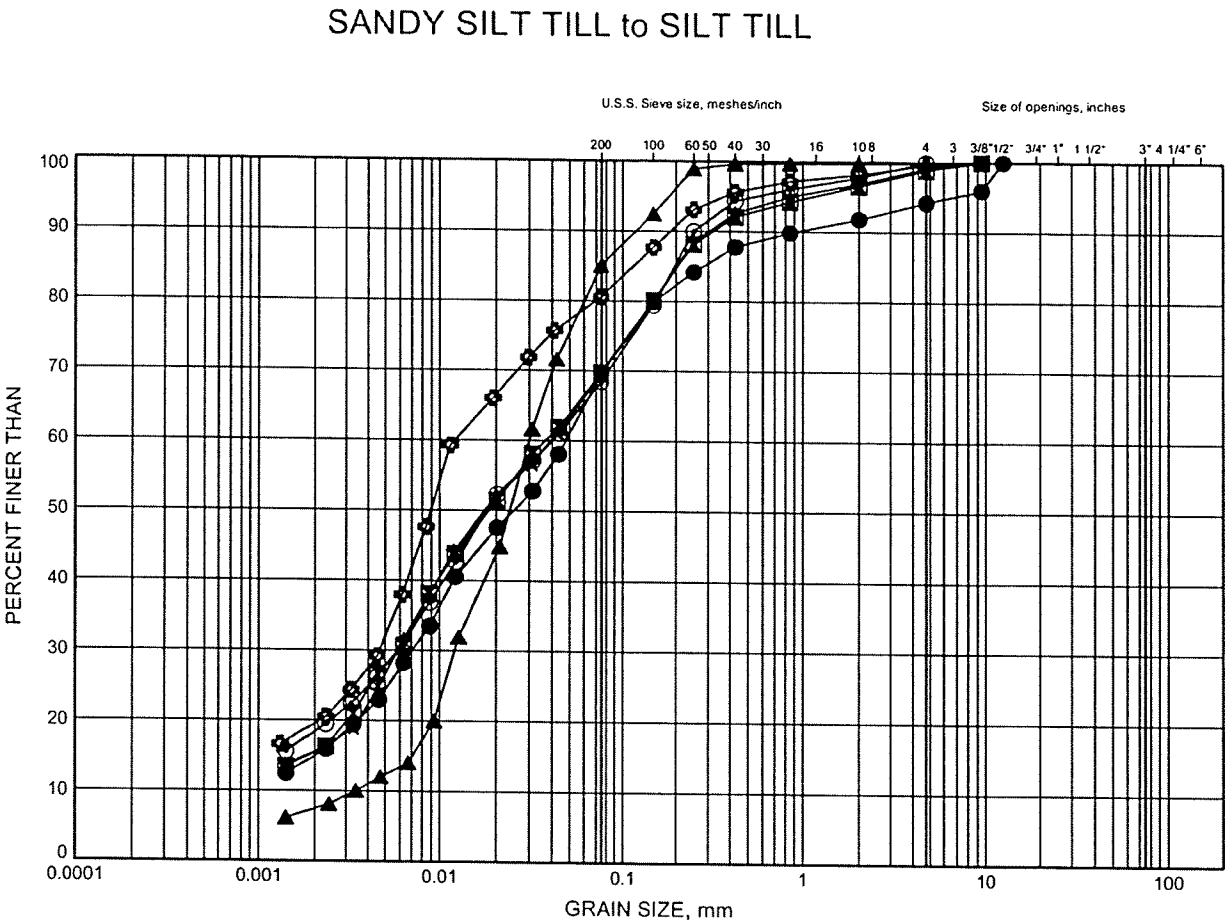
SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-49	6.40	259.69
☒	08-50	2.59	261.79
▲	08-50	6.29	258.09
★	08-54	2.59	258.41
⊙	08-54	10.72	250.28
⊕	08-55	1.83	259.84



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GRAIN SIZE DISTRIBUTION

FIGURE E28



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-55	6.40	255.27
⊠	MW 08-01	7.92	248.26
▲	MW 08-03	6.32	257.30
★	QSR1-1	2.59	254.33
⊙	QSR1-1	9.45	247.47
⊛	QSR1-1	12.50	244.42



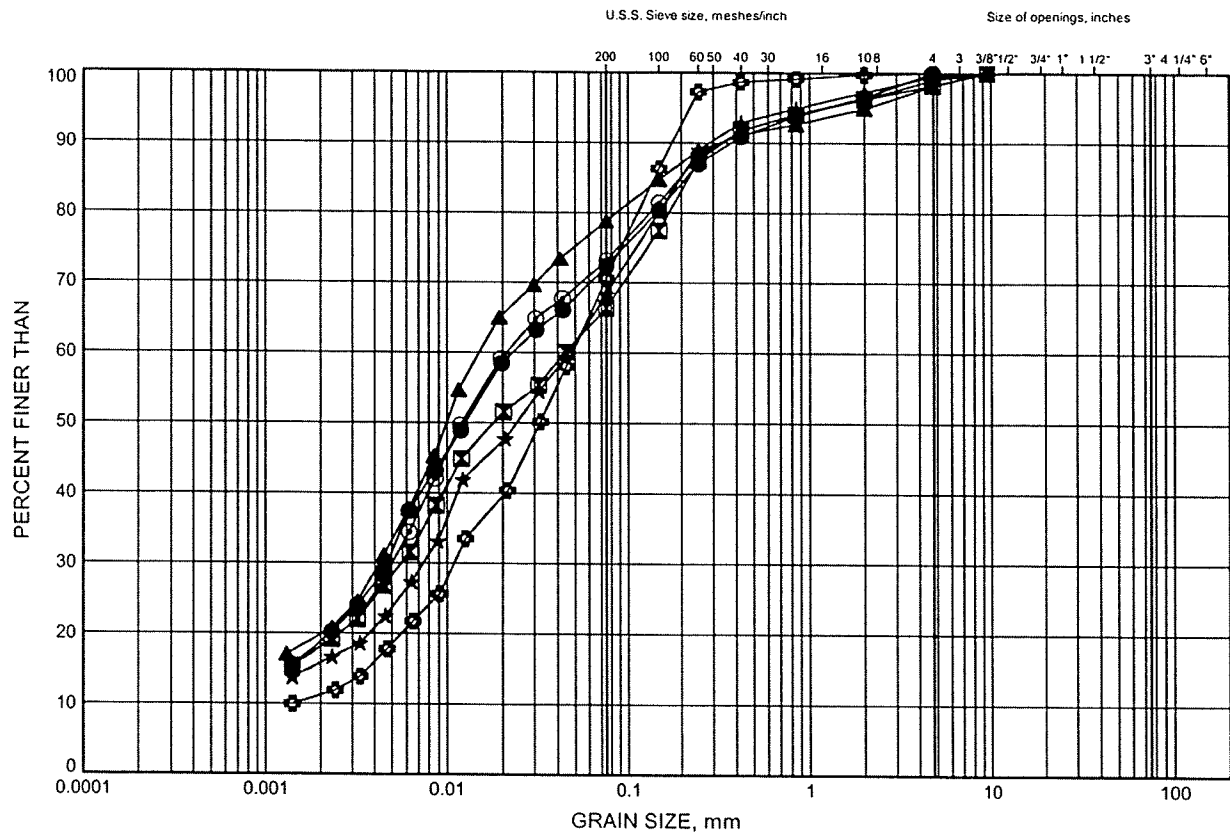
GRAIN SIZE DISTRIBUTION - THURBER 0595.GPJ 7/7/09

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FIGURE E29

SANDY SILT TILL to SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	QSR1-2	3.35	253.69
⊠	QSR1-2	7.92	249.12
▲	QSR1-2	10.97	246.07
★	QSR1-2	12.50	244.54
⊙	QSR1-3	3.35	253.26
⊕	QSR1-3	7.92	248.69

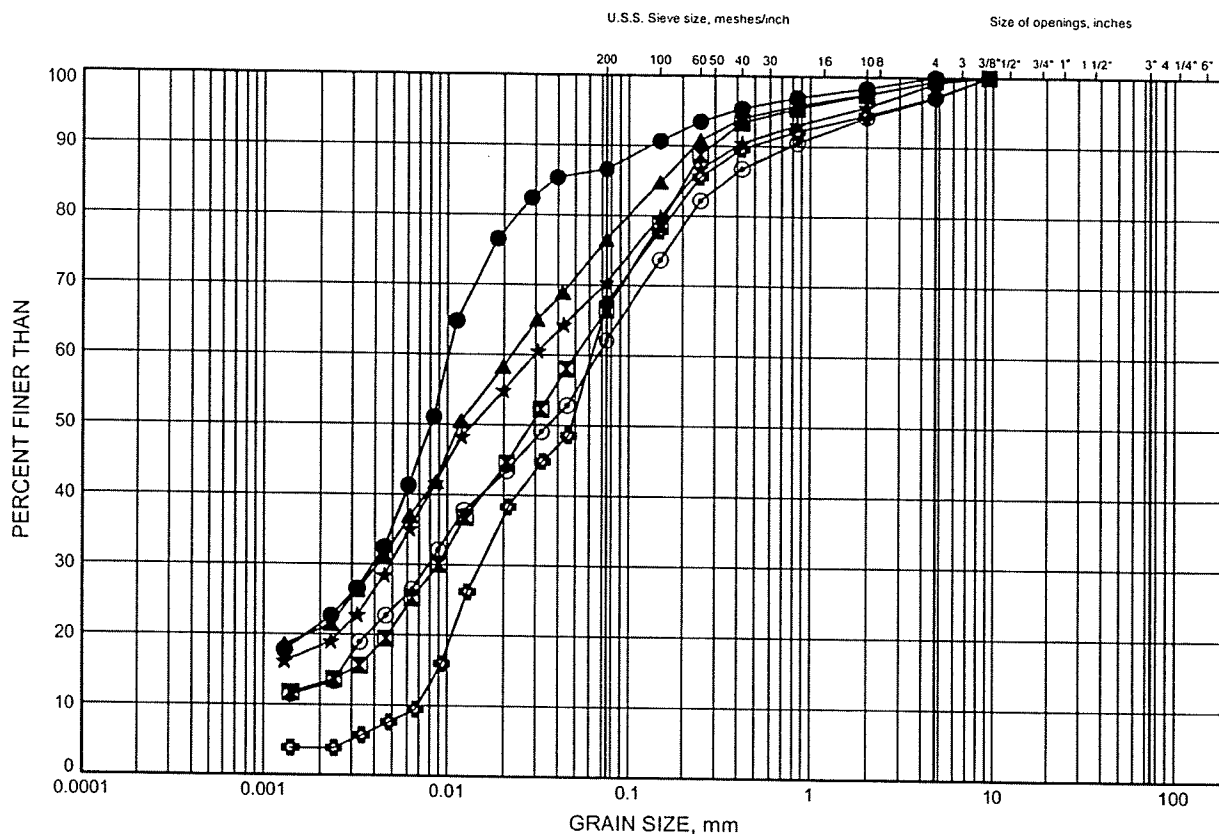


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FIGURE E30

SANDY SILT TILL to SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	QSR1-3	10.82	245.79
⊠	QSR2-1	1.83	254.37
▲	QSR2-1	4.88	251.32
★	QSR2-1	9.45	246.75
⊙	QSR2-2	3.35	253.01
⊛	QSR2-2	7.92	248.44

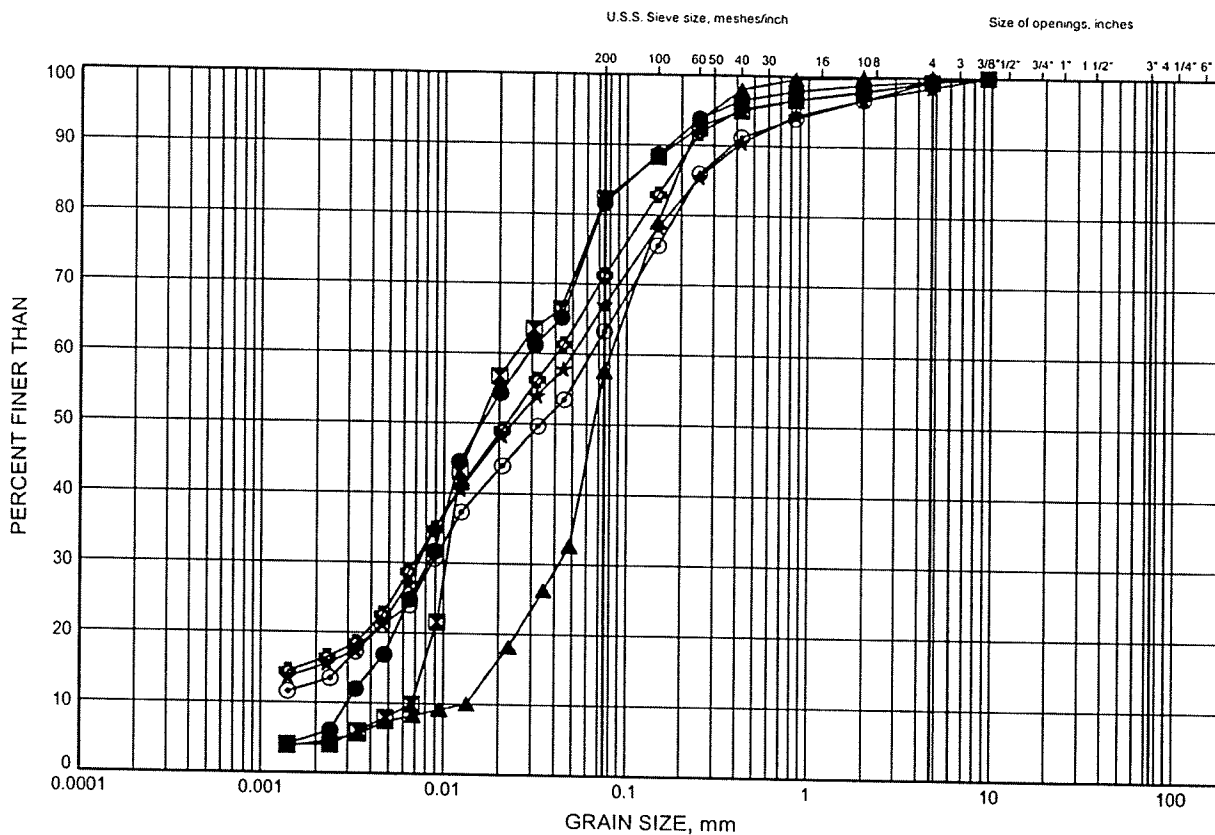


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FIGURE E31

SANDY SILT TILL to SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	QSR2-2	10.97	245.39
⊠	QSR2-3	3.35	253.48
▲	QSR2-3	10.97	245.86
★	QSR2-4	2.59	252.91
⊙	QSR2-4	3.35	252.15
⊛	QSR2-4	6.40	249.10

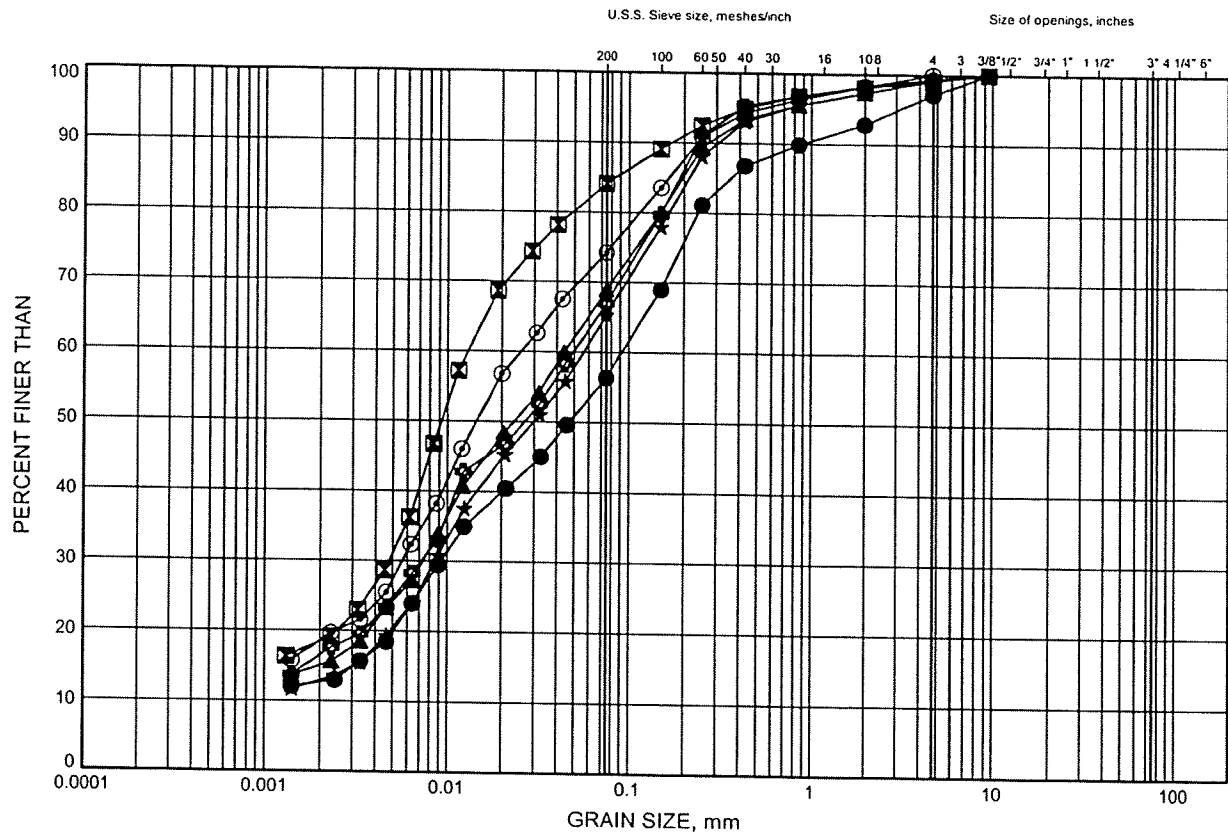


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FIGURE E32

SANDY SILT TILL to SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	QSR2-4	9.45	246.05
⊠	QSR2-4	12.50	243.00
▲	QSR3-1	4.88	250.49
★	QSR3-1	7.92	247.45
⊙	QSR3-1	14.02	241.35
⊕	QSR3-2	1.83	253.68

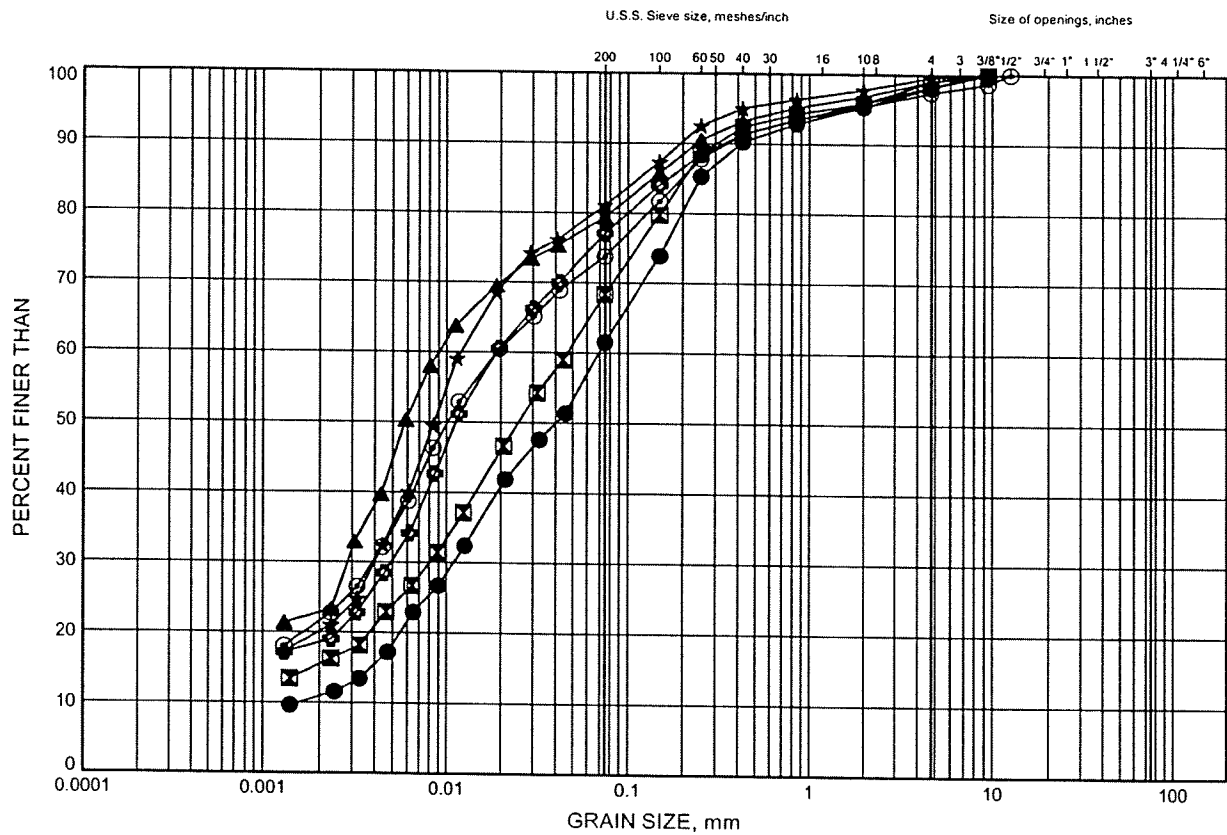


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FIGURE E33

SANDY SILT TILL to SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	QSR3-2	6.40	249.11
⊠	QSR3-2	12.50	243.01
▲	QSR3-3	4.88	250.96
★	QSR3-3	7.92	247.92
⊙	QSR3-4	6.40	249.25
⊛	QSR3-4	12.50	243.15

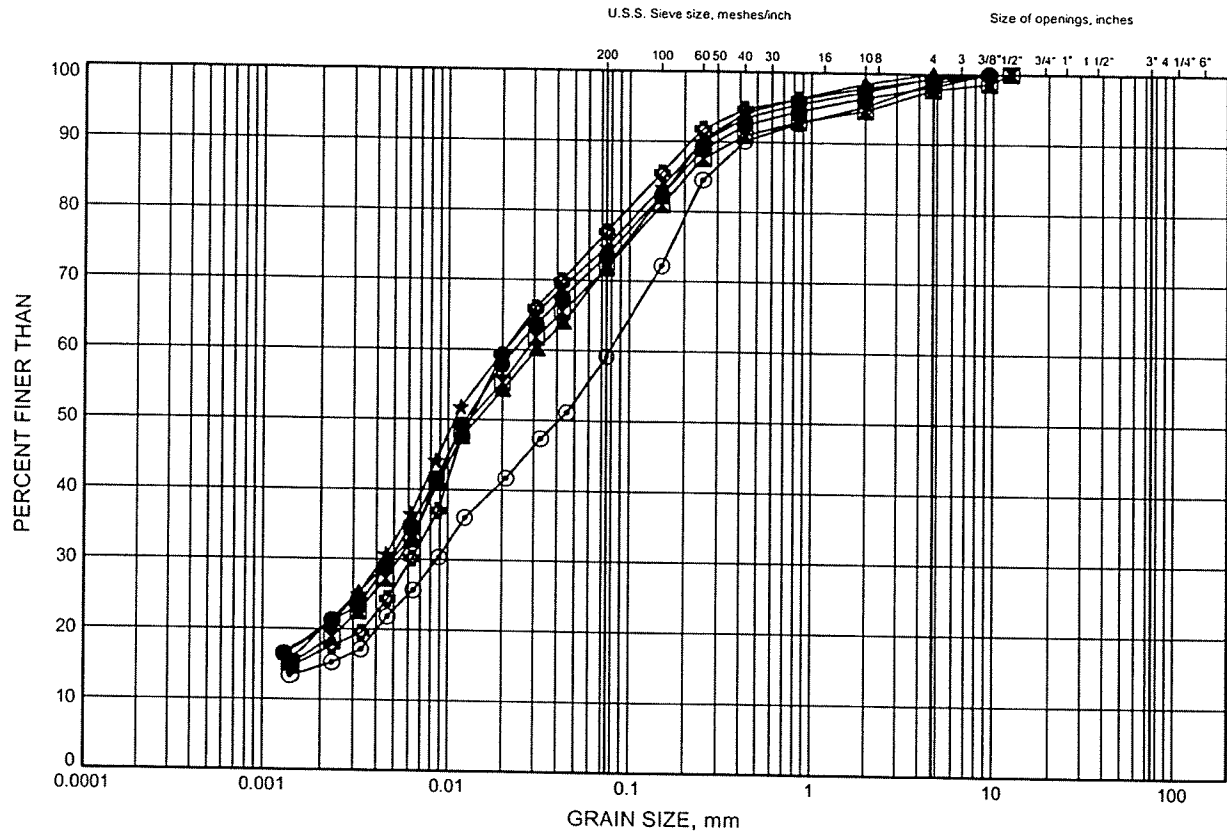


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FIGURE E34

SANDY SILT TILL to SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	QSR3-5	2.59	252.44
⊠	QSR3-5	6.40	248.63
▲	QSR3-5	9.45	245.58
★	QSR4-1	2.59	251.15
⊙	QSR4-1	6.40	247.34
⊛	QSR4-1	10.90	242.84

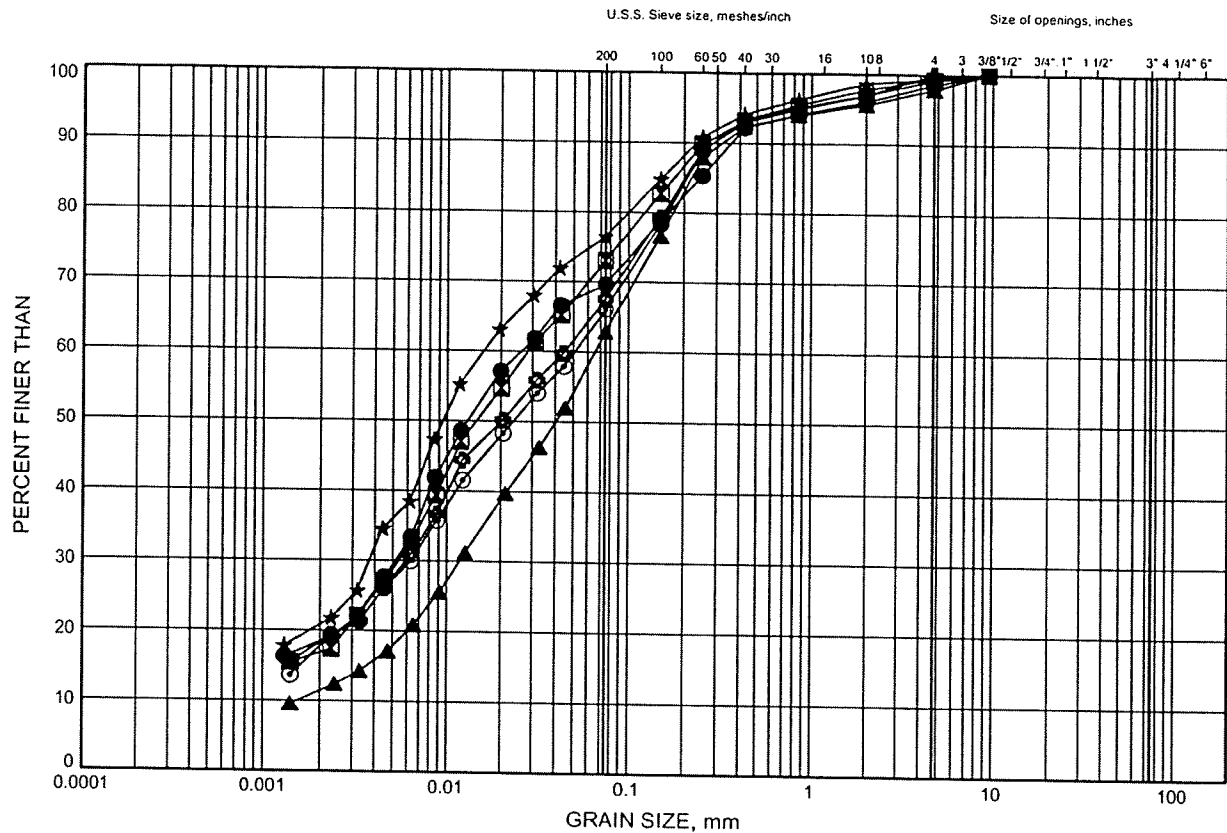


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FIGURE E35

SANDY SILT TILL to SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	QSR4-2	2.59	252.26
⊠	QSR4-2	6.40	248.45
▲	QSR4-2	9.45	245.40
★	QSR4-3	4.88	252.27
⊙	QSR4-3	10.97	246.18
⊕	QSR4-4	3.35	252.08

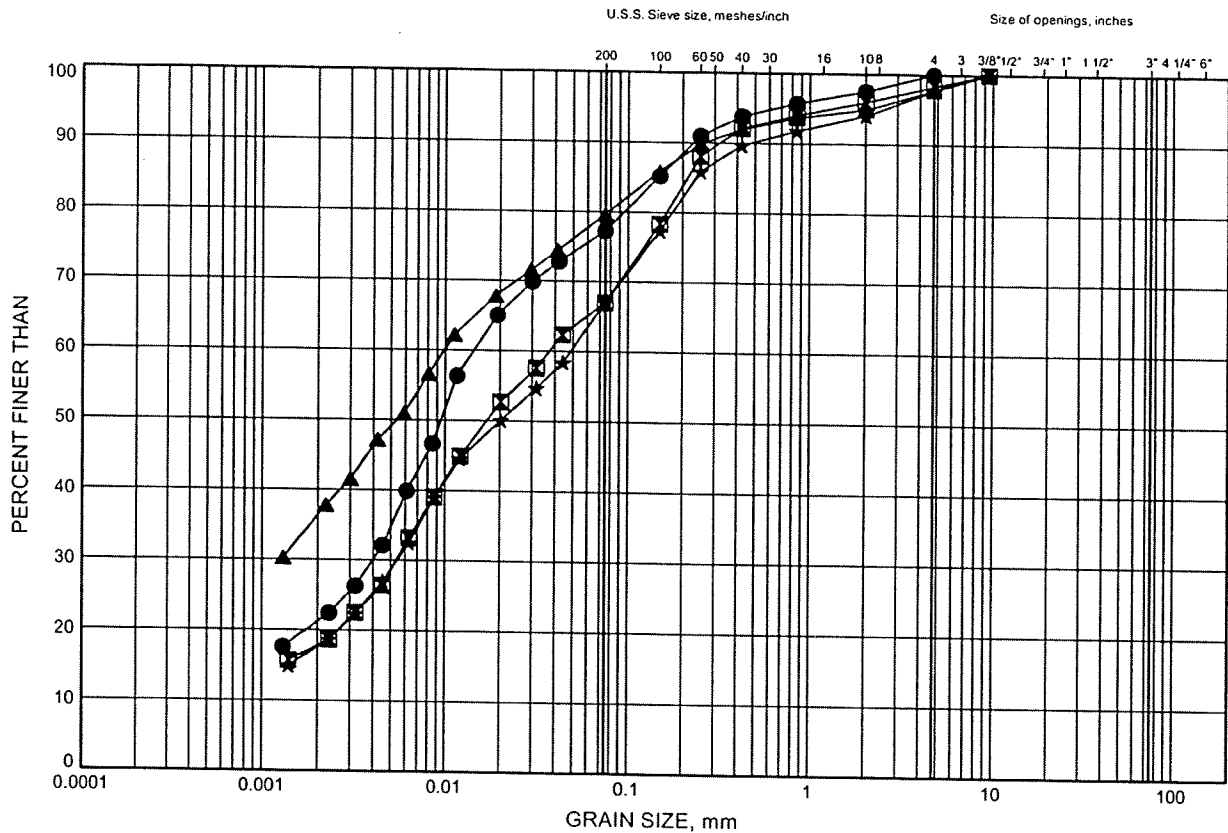


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FIGURE E36

SANDY SILT TILL to SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	QSR4-4	7.92	247.51
⊠	QSR4-4	10.97	244.46
▲	QSR4-5	4.88	250.55
★	QSR4-5	9.45	245.98

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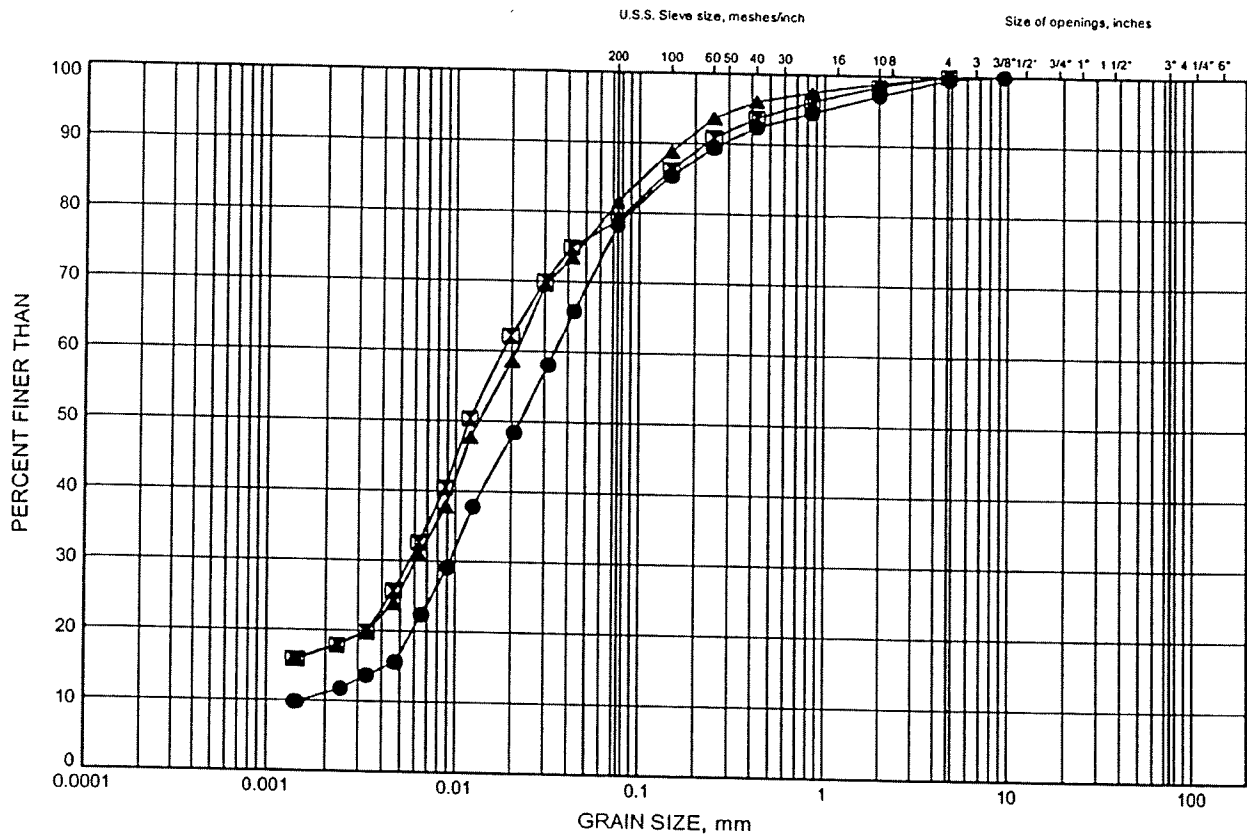
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FIGURE E37

SANDY SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	RW09-1	0.99	289.03
⊠	RW09-2	1.75	286.57
▲	RW09-3	2.51	284.53

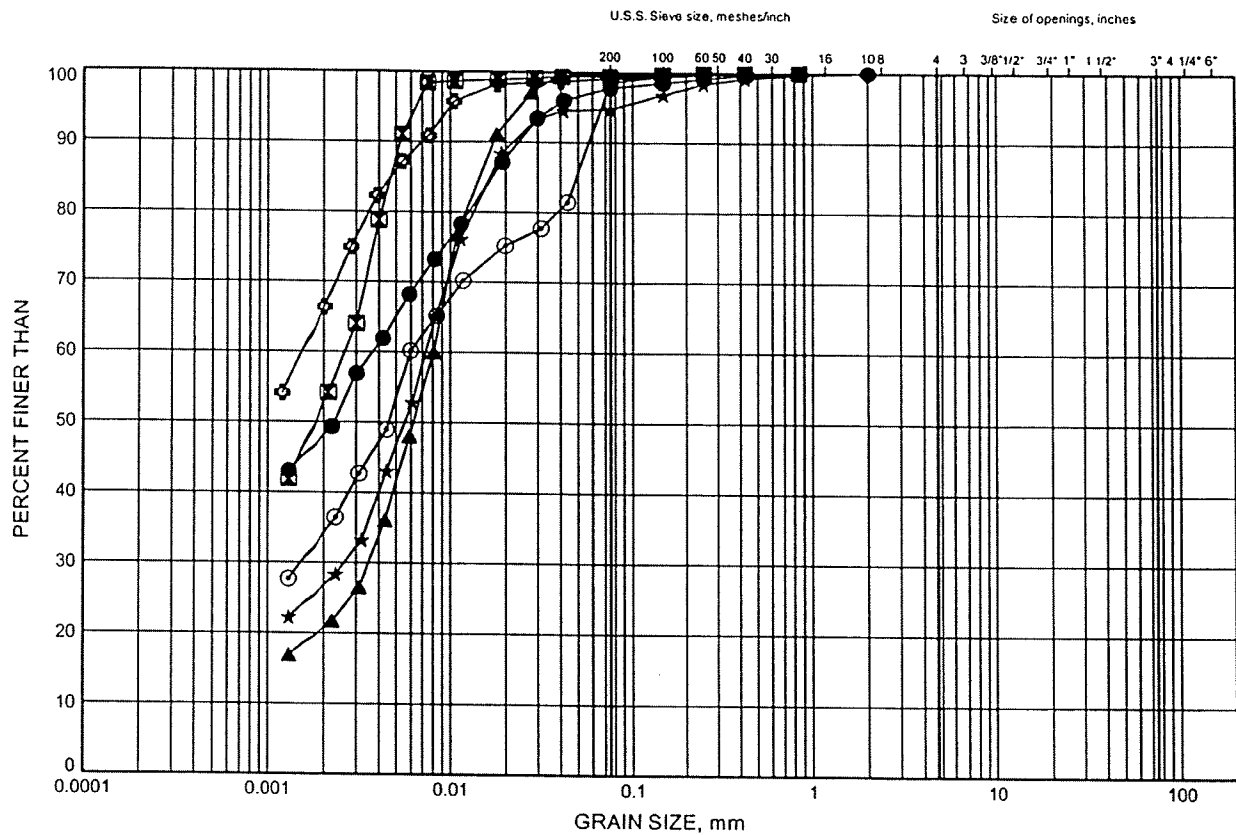


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FIGURE E38

SILTY CLAY



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-01	2.59	254.56
⊠	08-01	4.88	252.27
▲	08-01	6.40	250.75
★	08-01	9.45	247.70
⊙	08-02	1.83	255.30
⊗	08-02	4.88	252.25

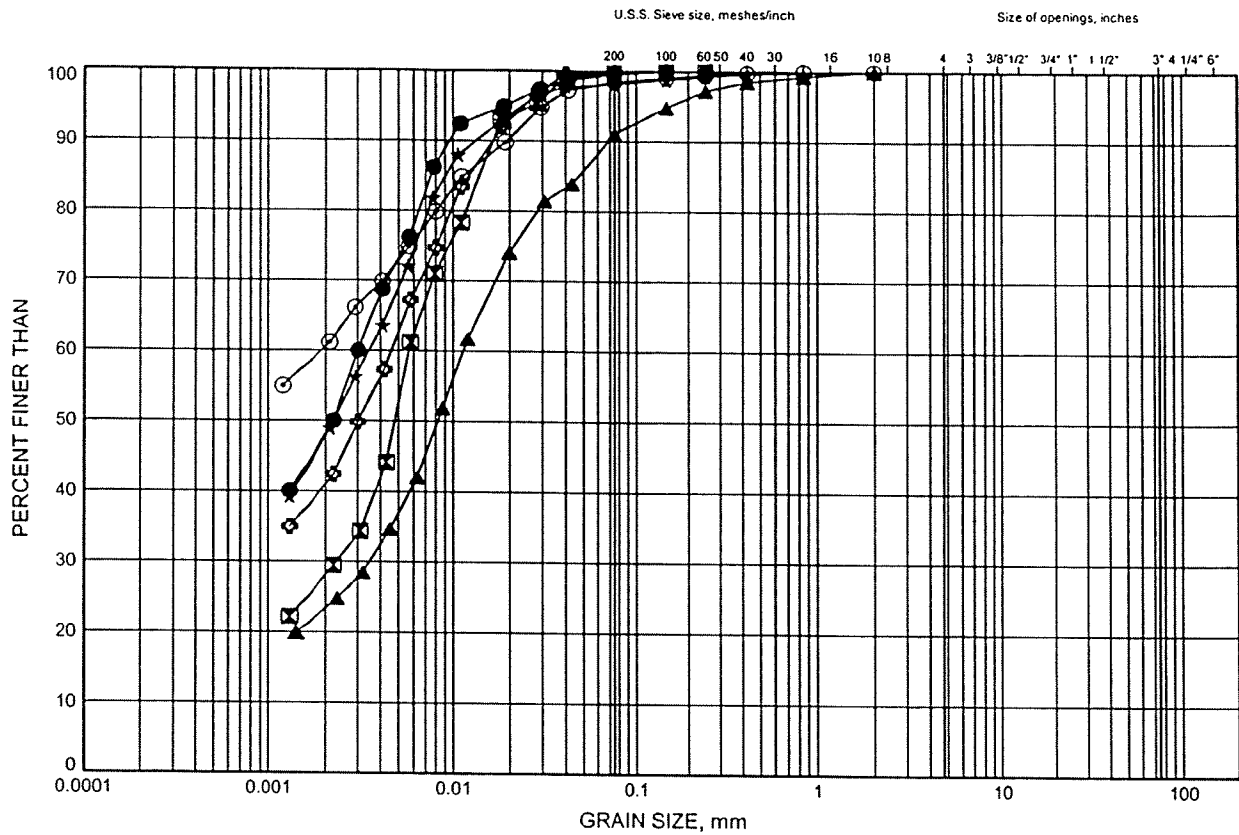


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FIGURE E39

SILTY CLAY



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-03	2.59	254.84
⊠	08-03	6.40	251.03
▲	08-03	9.45	247.98
★	08-04	1.83	260.97
⊙	08-04	3.35	259.45
⊗	08-05	1.07	259.76

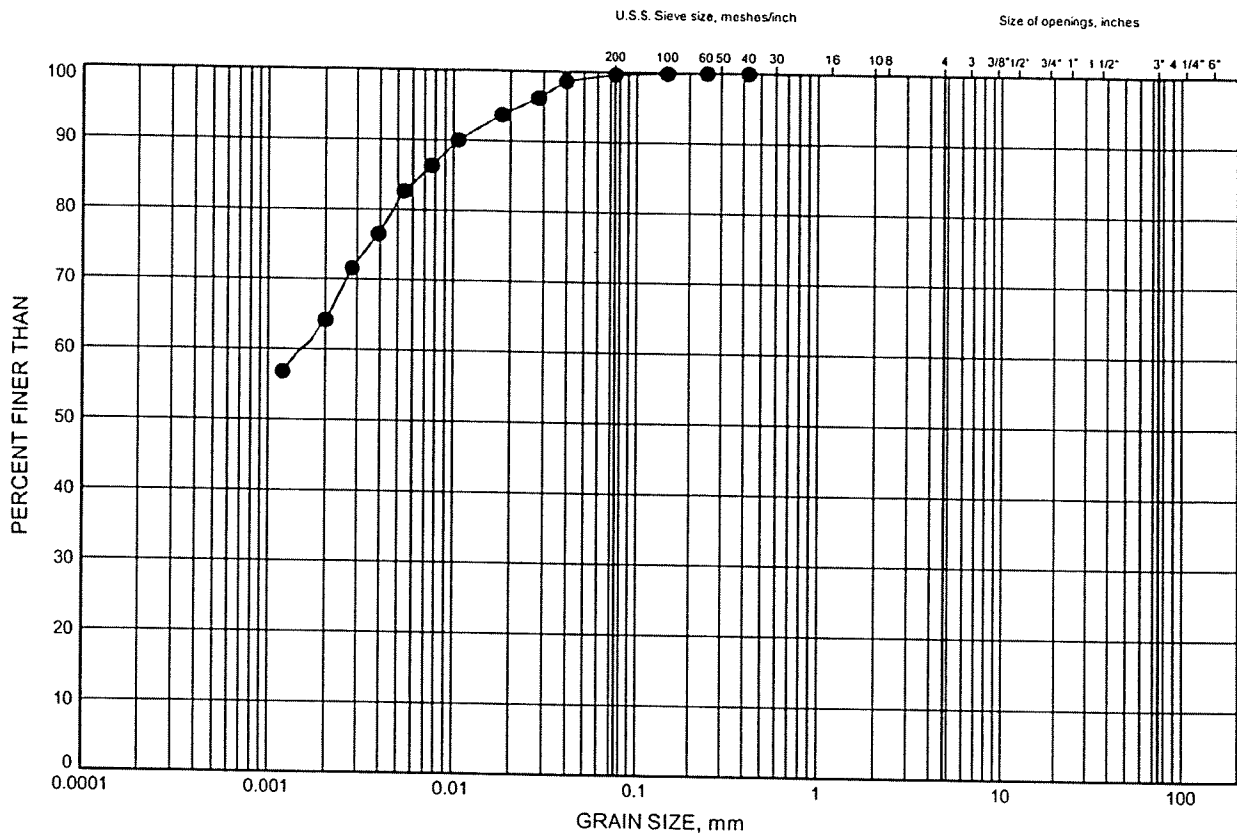


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FIGURE E40

SILTY CLAY



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

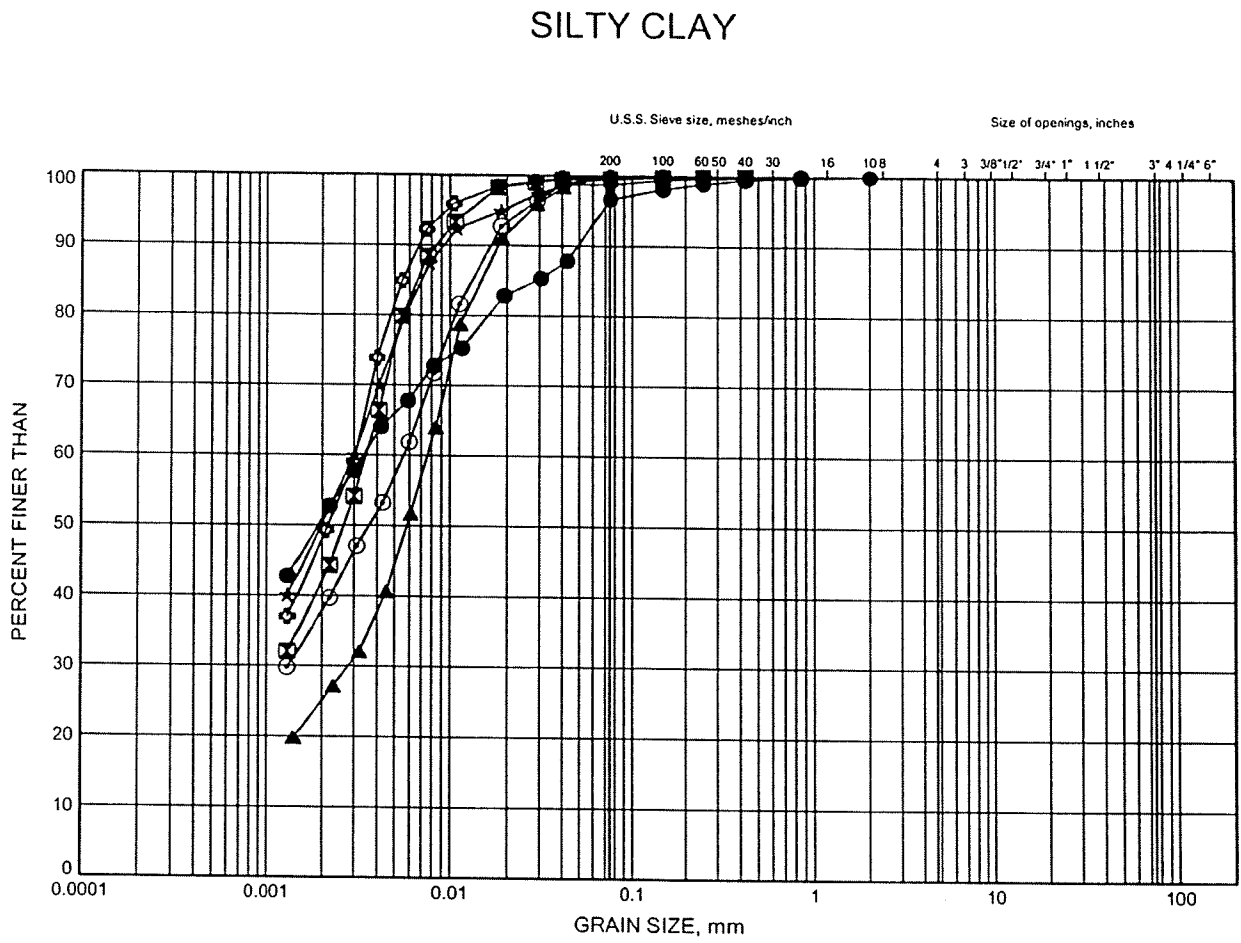
SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-05	3.35	257.48



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GRAIN SIZE DISTRIBUTION

FIGURE E41



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-06	1.07	258.86
⊠	08-06	3.35	256.58
▲	08-06	4.88	255.05
★	08-07	1.83	257.25
⊙	08-07	3.35	255.73
⊕	08-08	2.59	256.01

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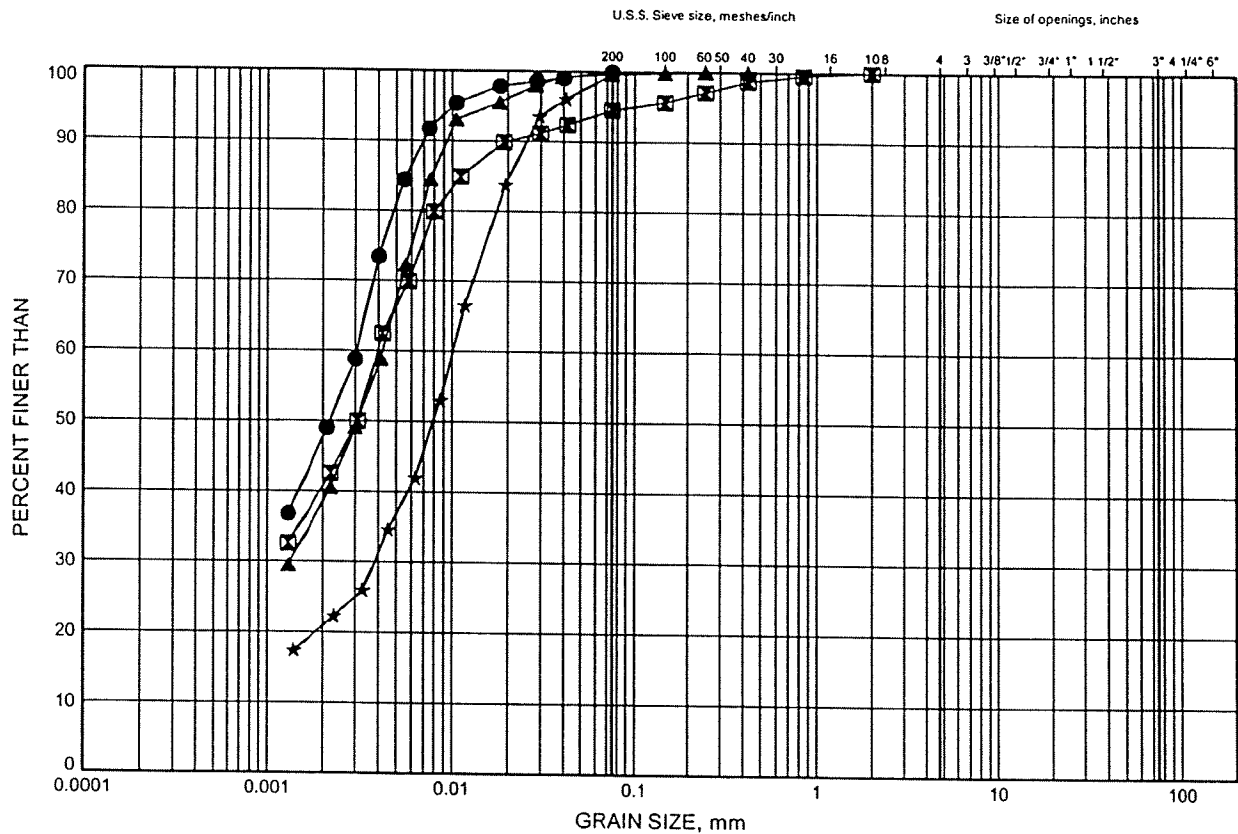
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FIGURE E42

SILTY CLAY



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-08	3.35	255.25
⊠	08-09	1.83	256.07
▲	08-09	3.35	254.55
★	08-09	4.88	253.02

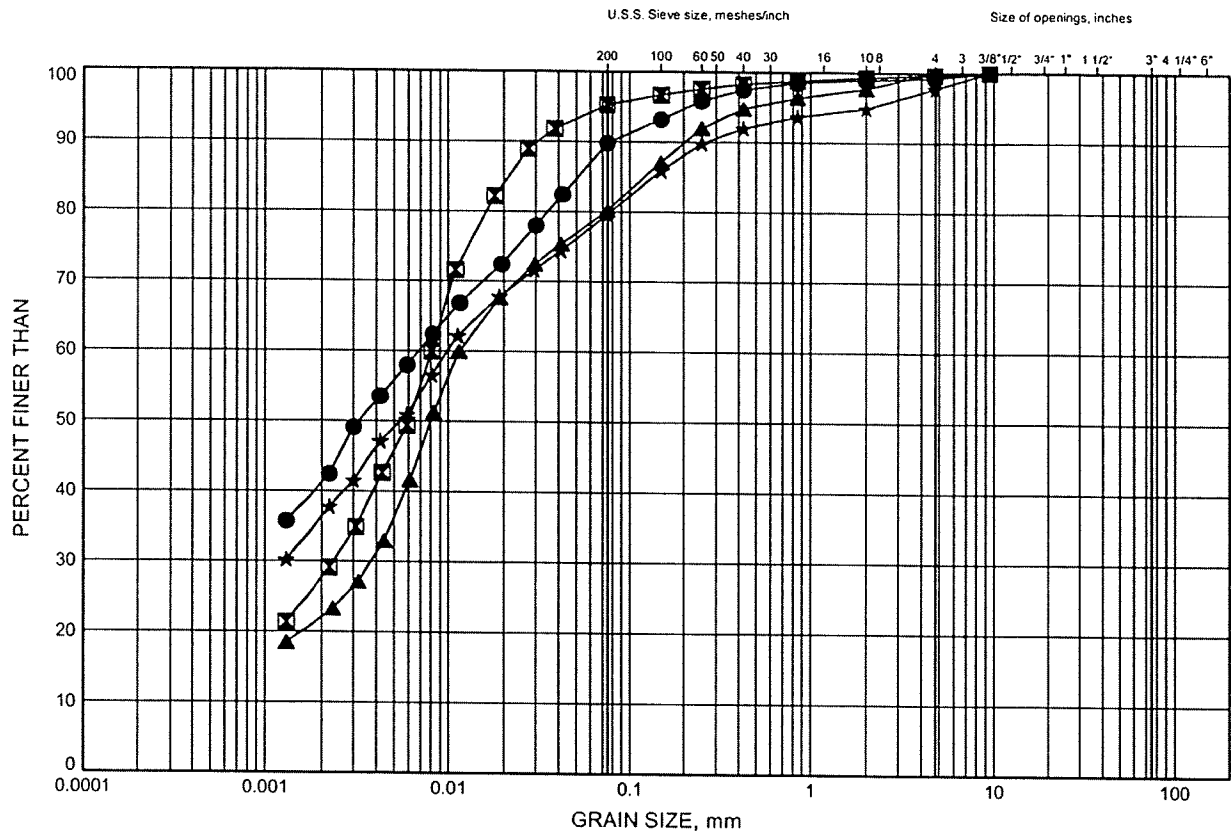


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Hwy 404 Extension GRAIN SIZE DISTRIBUTION

FIGURE E43

SILTY CLAY to CLAYEY SILT



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-21	1.07	267.03
⊠	08-53	1.83	260.31
▲	QSR4-5	3.35	252.08
★	QSR4-5	4.88	250.55

GRAIN SIZE DISTRIBUTION - THURBER 0595.GPJ 7/7/09

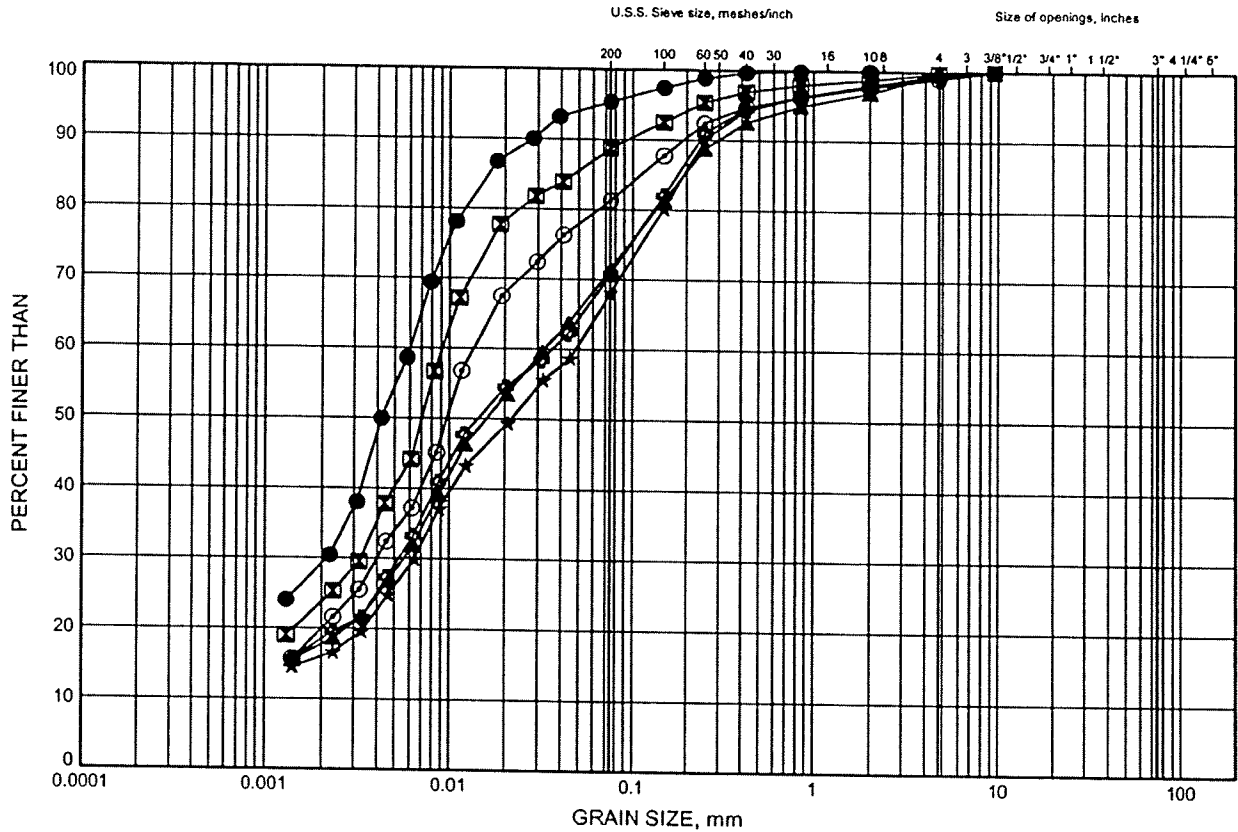
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FIGURE E44

CLAYEY SILT & CLAYEY SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-38A	2.51	254.79
⊠	08-38A	4.80	252.50
▲	08-38A	9.37	247.93
★	08-38A	13.94	243.36
⊙	08-39	2.51	256.44
⊛	08-39	6.32	252.63

GRAIN SIZE DISTRIBUTION - THURBER 0596.GPJ 9/24/09

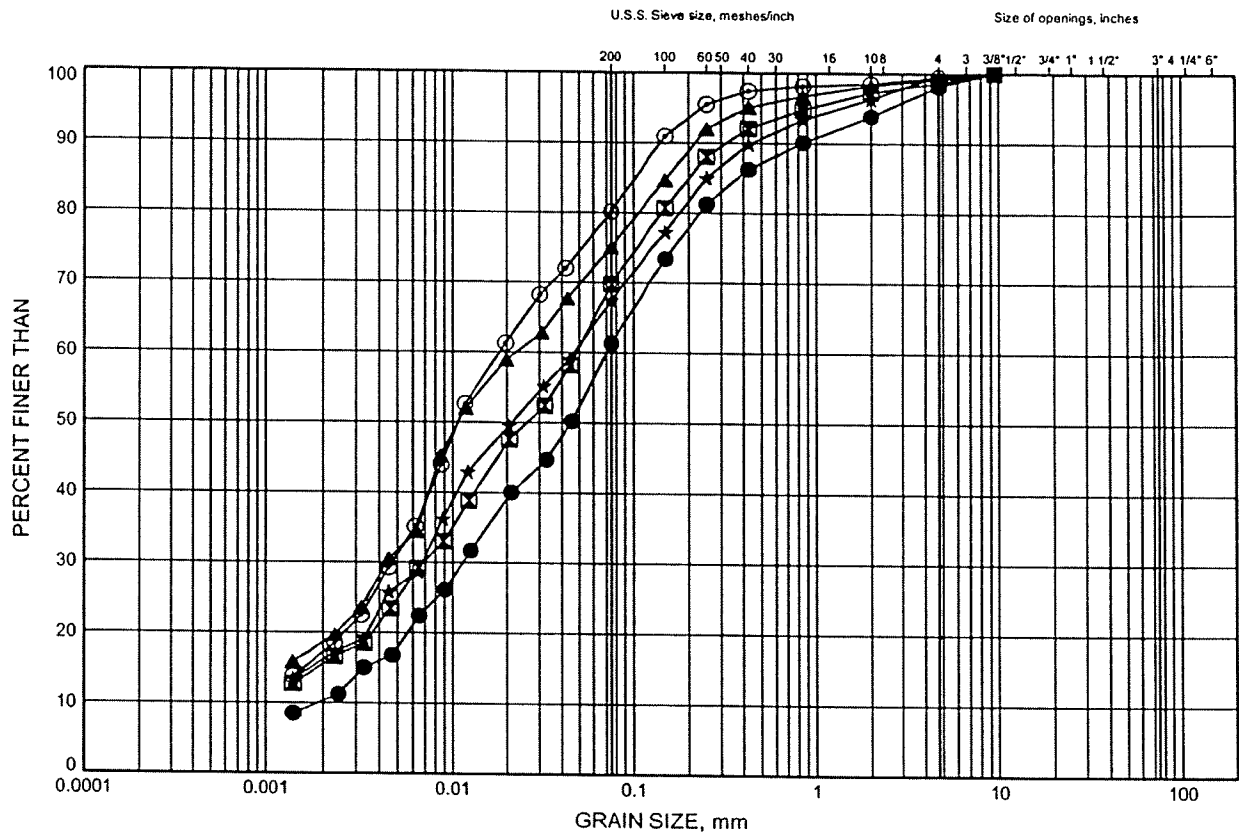
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FIGURE E45

CLAYEY SILT & CLAYEY SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-40	3.28	258.03
⊠	08-40	6.40	254.91
▲	08-41	2.51	261.19
★	08-42	1.83	262.61
○	08-46	7.92	248.78

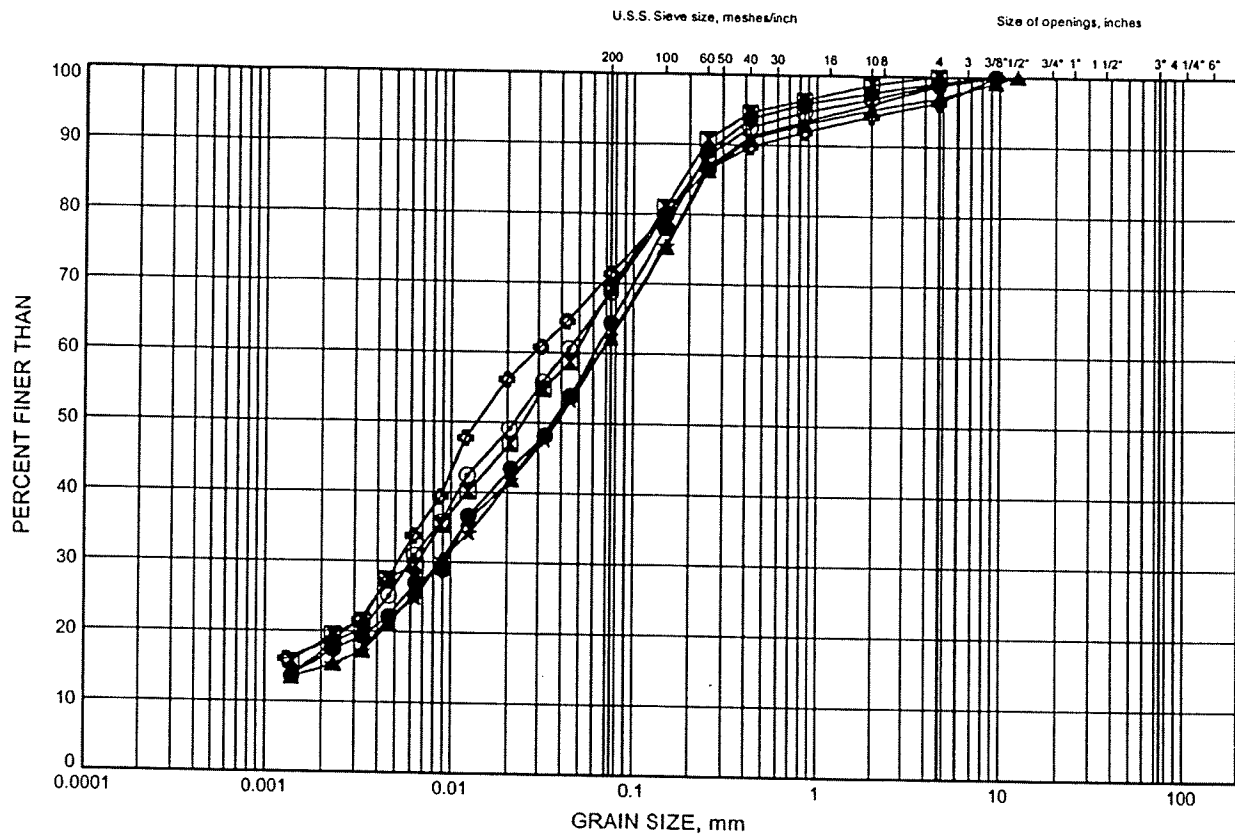


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FIGURE E46

CLAYEY SILT & CLAYEY SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-46	14.02	242.68
⊠	08-46	17.07	239.63
▲	08-46	18.52	238.18
★	08-46	20.12	236.58
⊙	08-47	6.32	251.06
⊕	08-47	7.92	249.46

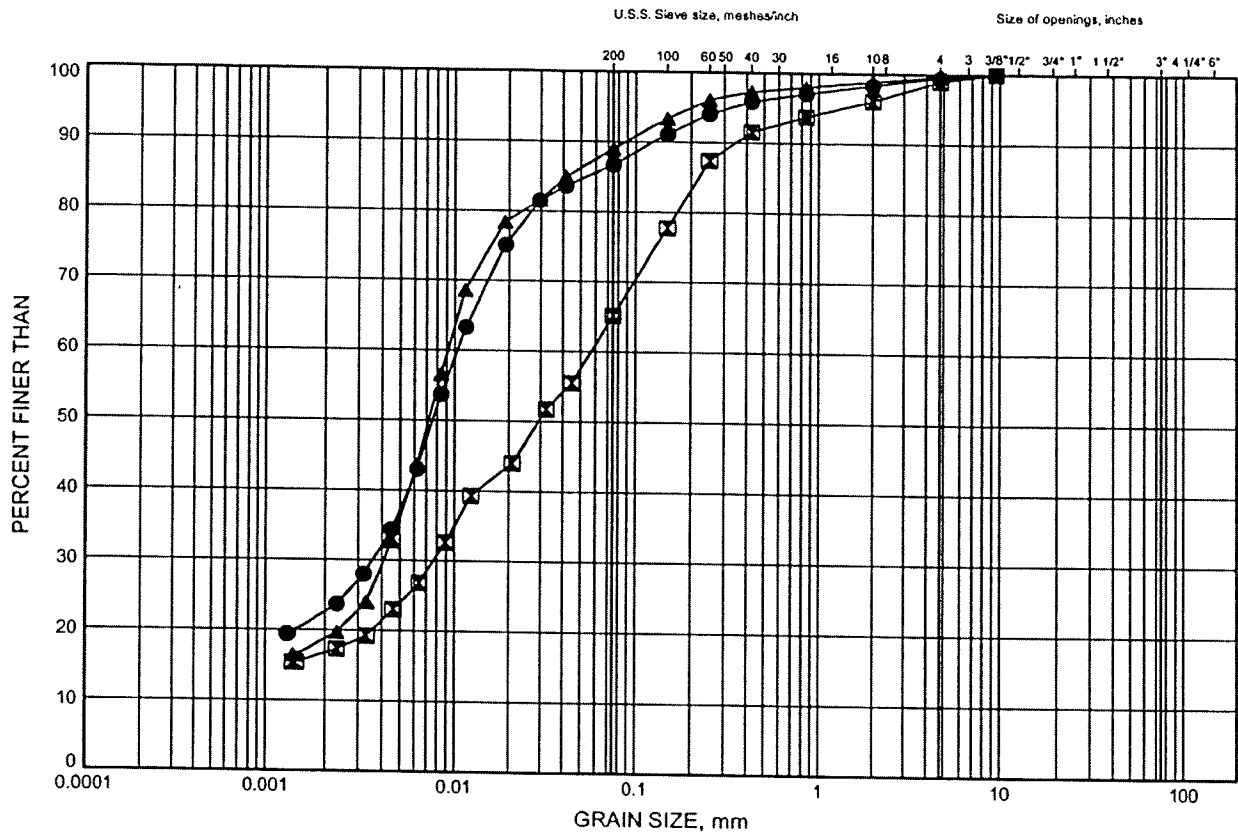


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Hwy 404 Extension GRAIN SIZE DISTRIBUTION

FIGURE E47

CLAYEY SILT & CLAYEY SILT TILL



SILT and CLAY	FINE	MEDIUM	COARSE	FINE	COARSE	COBBLE SIZE
FINE GRAINED	SAND			GRAVEL		

LEGEND

SYMBOL	BOREHOLE	DEPTH (m)	ELEV. (m)
●	08-47	12.50	244.88
◻	08-47	17.07	240.31
▲	08-47	20.12	237.26

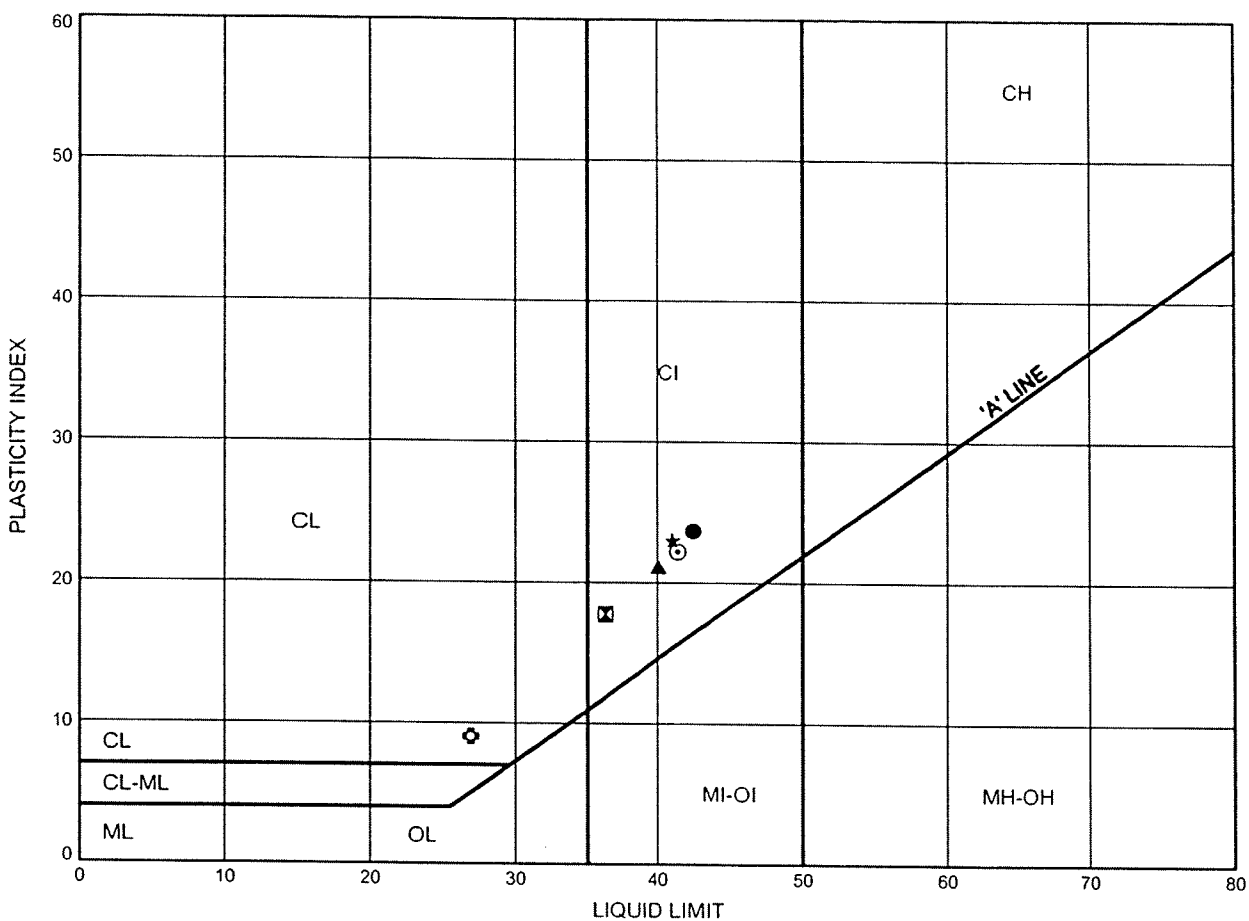


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Hwy 404 Extension ATTERBERG LIMITS TEST RESULTS

FIGURE E48

SILTY CLAY



SYMBOL	BH	DEPTH (m)	ELEV. (m)
●	08-01	2.59	254.56
⊠	08-01	4.88	252.27
▲	08-02	1.83	255.30
★	08-02	4.88	252.25
⊙	08-03	2.59	254.84
⊛	08-03	6.40	251.03

Date September 2009

Project 2109-05-00



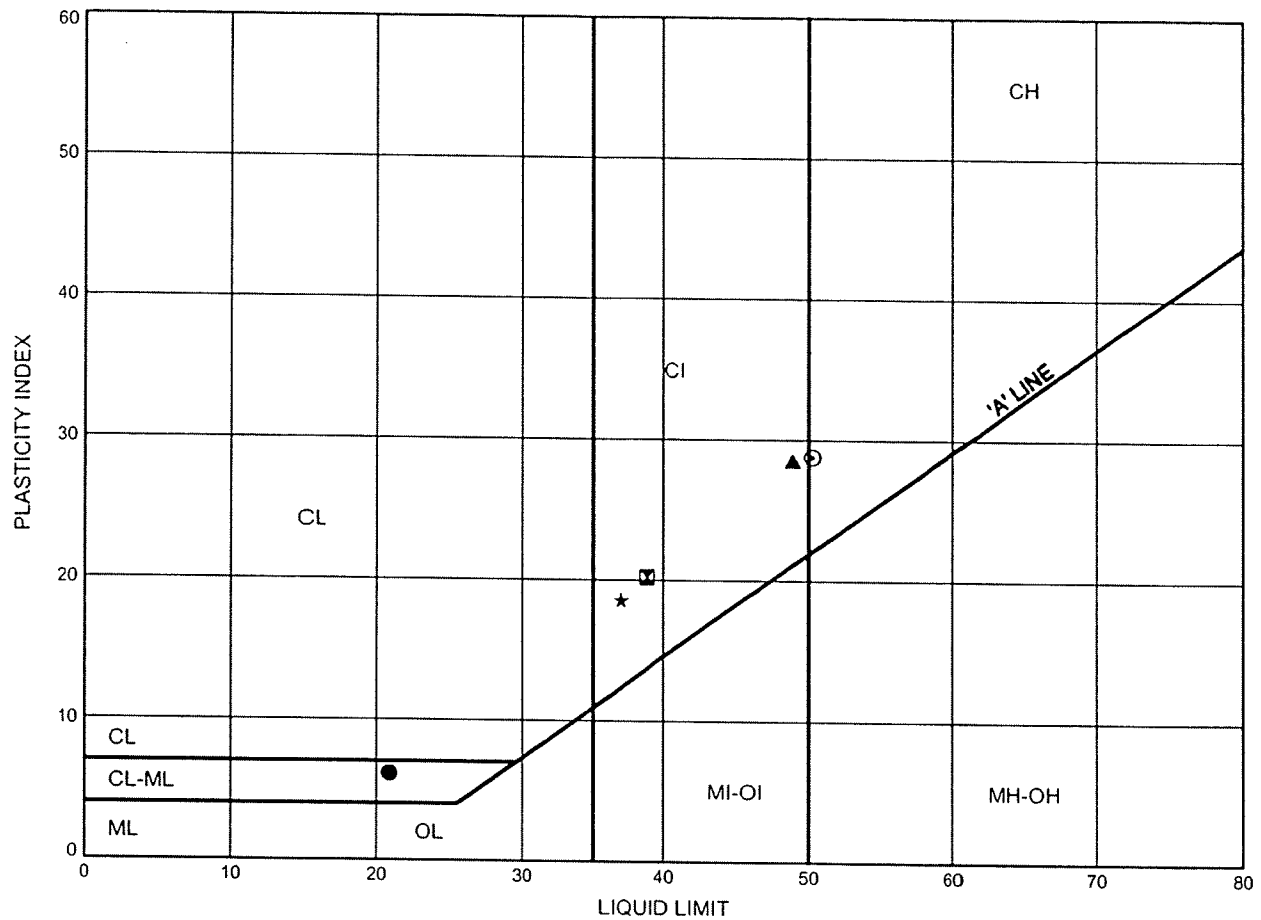
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FIGURE E49

SILTY CLAY



SYMBOL	BH	DEPTH (m)	ELEV. (m)
●	08-03	9.45	247.98
⊠	08-04	1.83	260.97
▲	08-04	3.35	259.45
★	08-05	1.07	259.76
⊙	08-05	3.35	257.48

Date September 2009
Project 2109-05-00

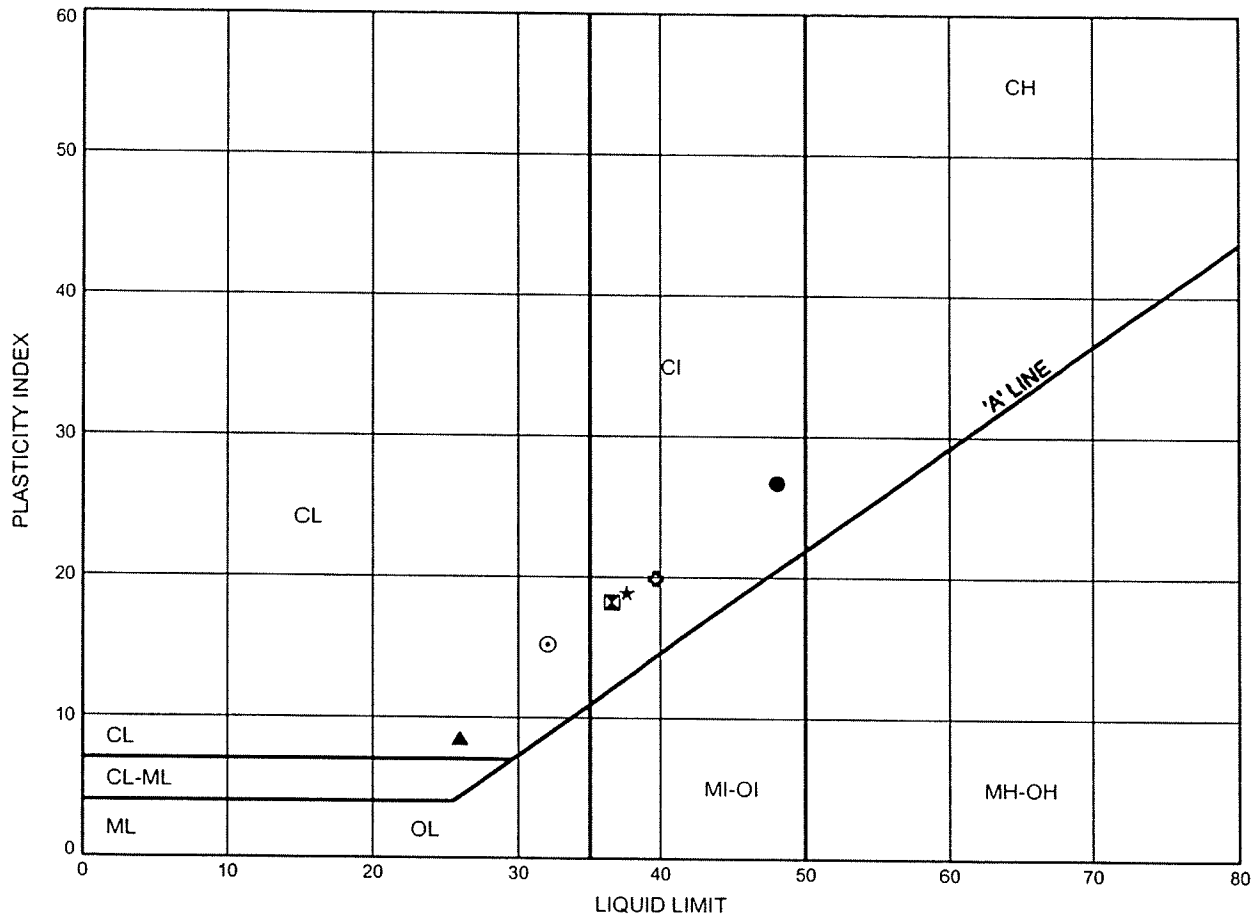


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ATTERBERG LIMITS TEST RESULTS

FIGURE E50

SILTY CLAY

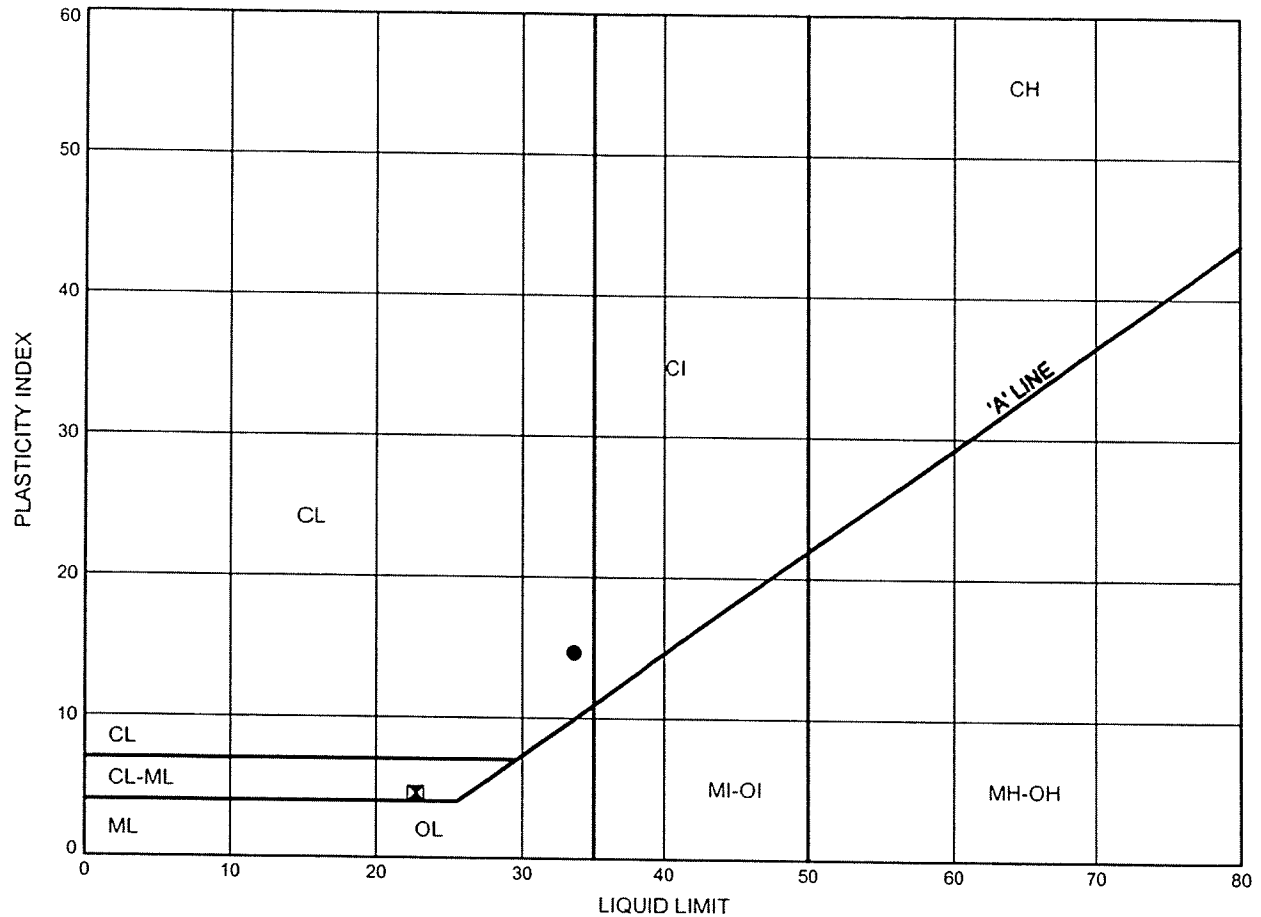


SYMBOL	BH	DEPTH (m)	ELEV. (m)
●	08-06	1.07	258.86
⊠	08-06	3.35	256.58
▲	08-06	4.88	255.05
★	08-07	1.83	257.25
⊙	08-07	3.35	255.73
⊛	08-08	2.59	256.01

Hwy 404 Extension ATTERBERG LIMITS TEST RESULTS

FIGURE E51

SILTY CLAY



SYMBOL	BH	DEPTH (m)	ELEV. (m)
●	08-09	3.35	254.55
⊠	08-09	4.88	253.02

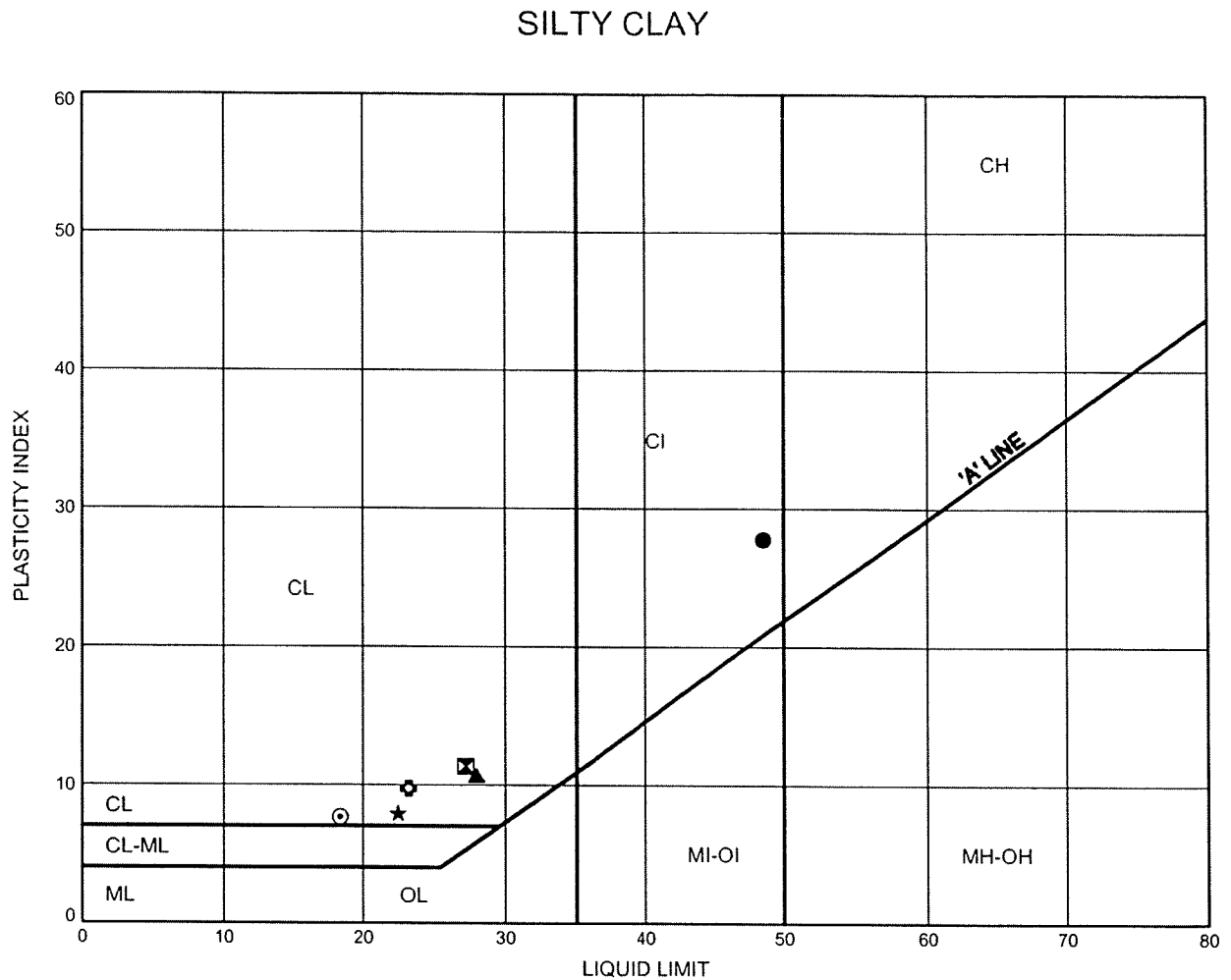
Date October 2009
Project 2109-05-00



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Hwy 404 Extension ATTERBERG LIMITS TEST RESULTS

FIGURE E52



SYMBOL	BH	DEPTH (m)	ELEV. (m)
●	08-21	1.07	267.03
⊠	08-53	1.83	260.31
▲	MW 08-01	1.83	254.35
★	MW 08-01	4.88	251.30
⊙	QSR3-2	1.83	253.68
⊕	QSR3-3	4.88	250.96

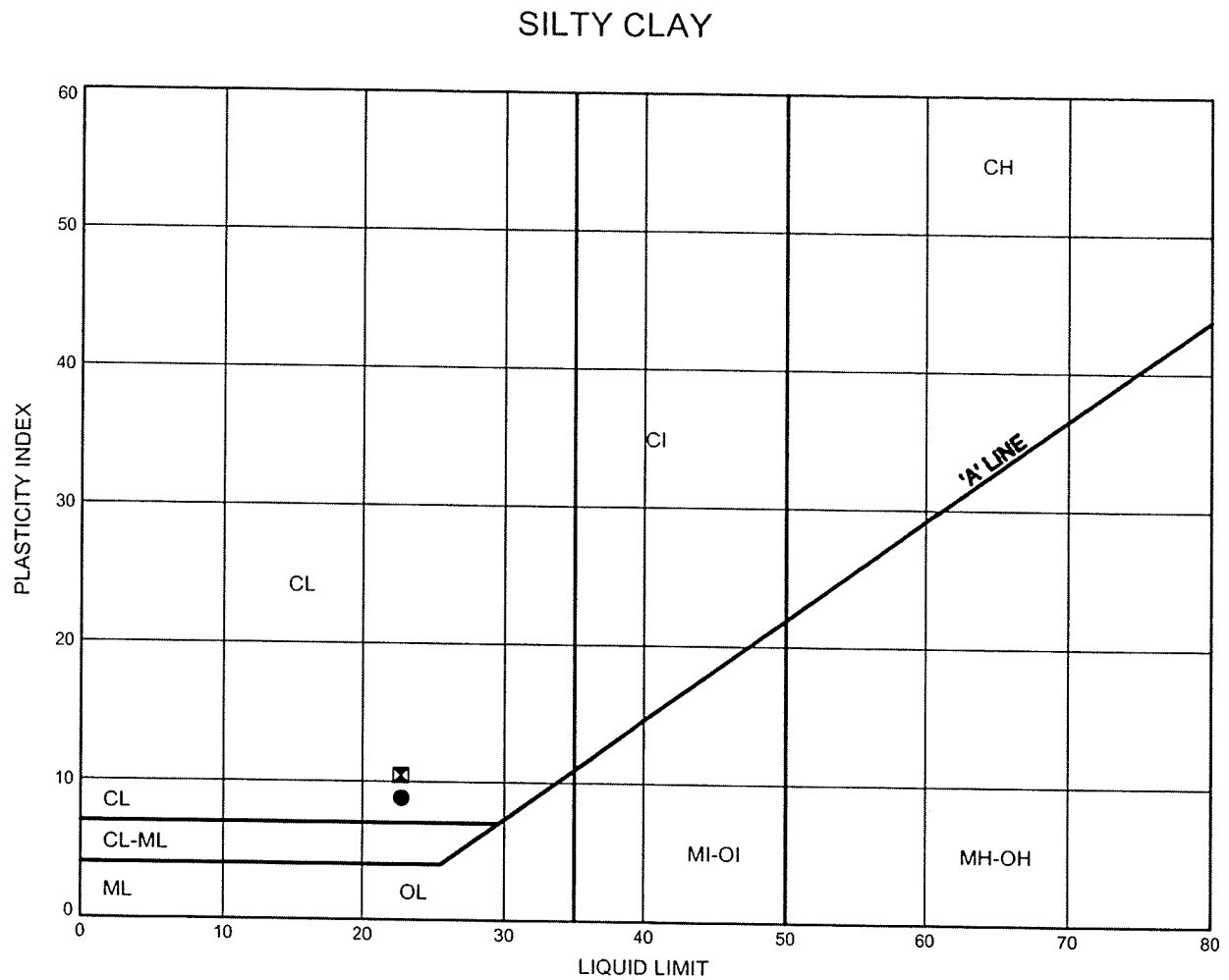
Date July 2009
Project 19-1605-95



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FIGURE E53



SYMBOL	BH	DEPTH (m)	ELEV. (m)
●	QSR4-5	3.35	252.08
⊠	QSR4-5	4.88	250.55

Date July 2009
Project 19-1605-95

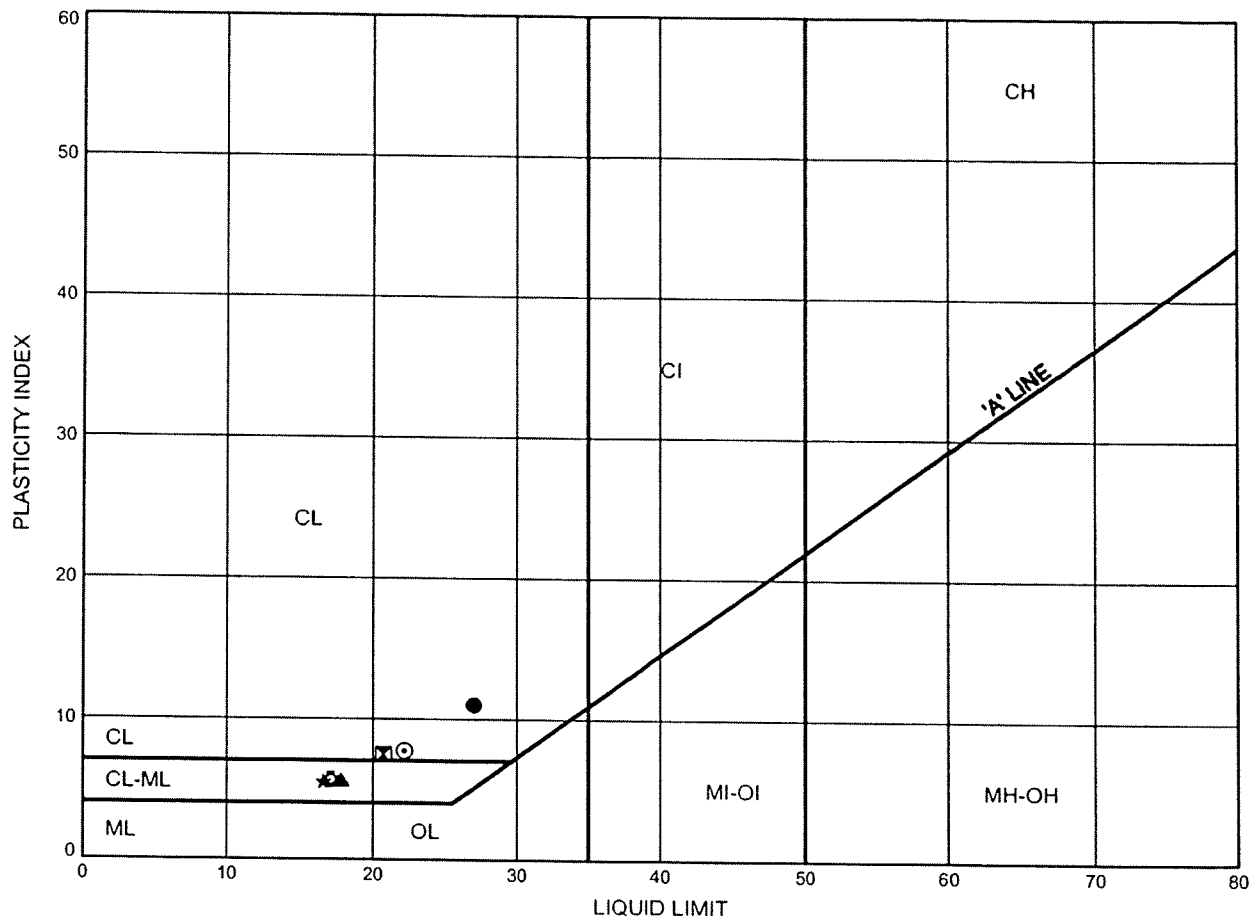


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FIGURE E54.

CLAYEY SILT & CLAYEY SILT TILL



SYMBOL	BH	DEPTH (m)	ELEV. (m)
●	08-38A	2.51	254.79
⊠	08-38A	4.80	252.50
▲	08-38A	9.37	247.93
★	08-38A	13.94	243.36
⊙	08-39	2.51	256.44
⊕	08-39	6.32	252.63

Date October 2009

Project 2109-05-00



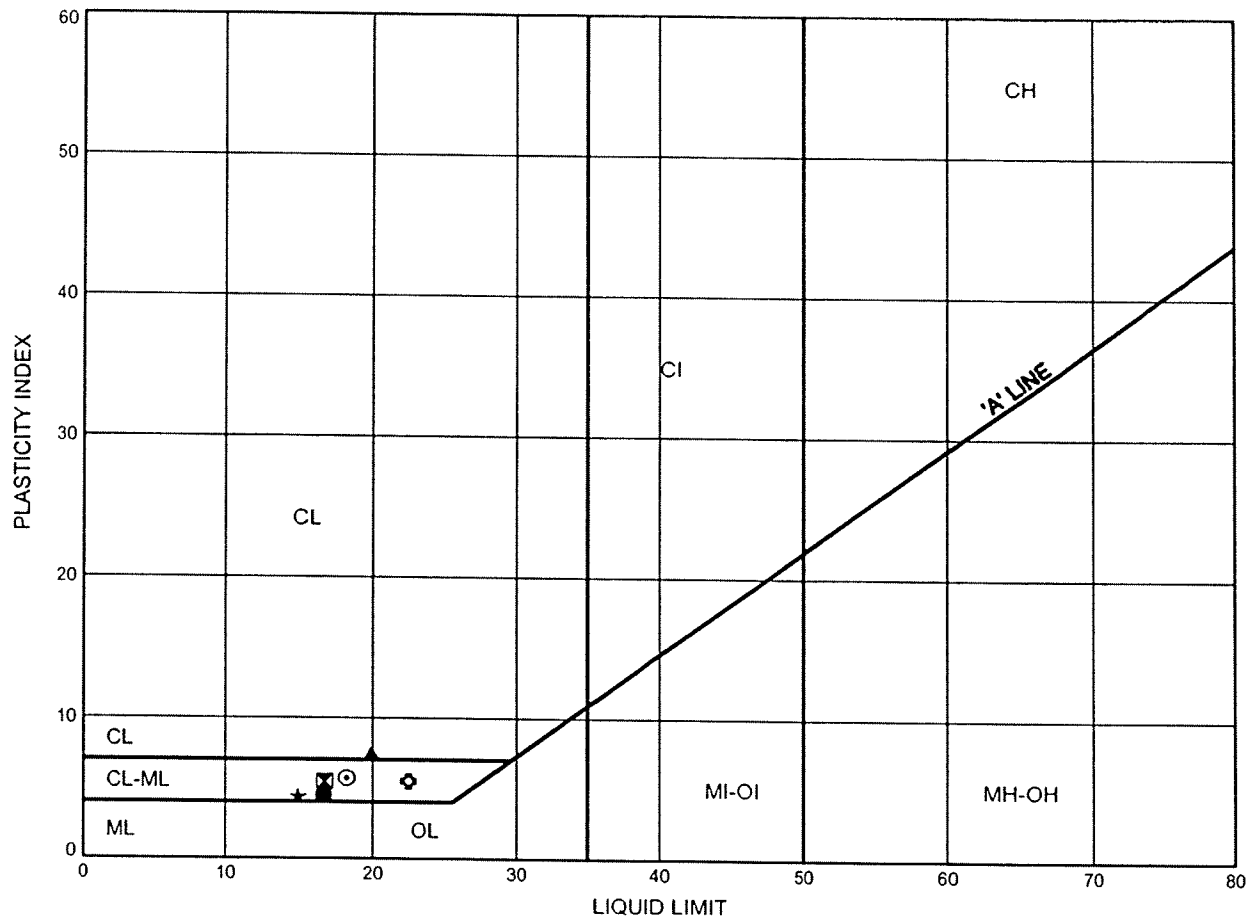
Prep'd AN

Chkd. RPR

Hwy 404 Extension ATTERBERG LIMITS TEST RESULTS

FIGURE E55

CLAYEY SILT & CLAYEY SILT TILL



SYMBOL	BH	DEPTH (m)	ELEV. (m)
●	08-40	3.28	258.03
⊠	08-40	6.40	254.91
▲	08-41	2.51	261.19
★	08-46	17.07	239.63
⊙	08-47	7.92	249.46
⊛	08-47	20.12	237.26

Date September 2009
Project 2109-05-00

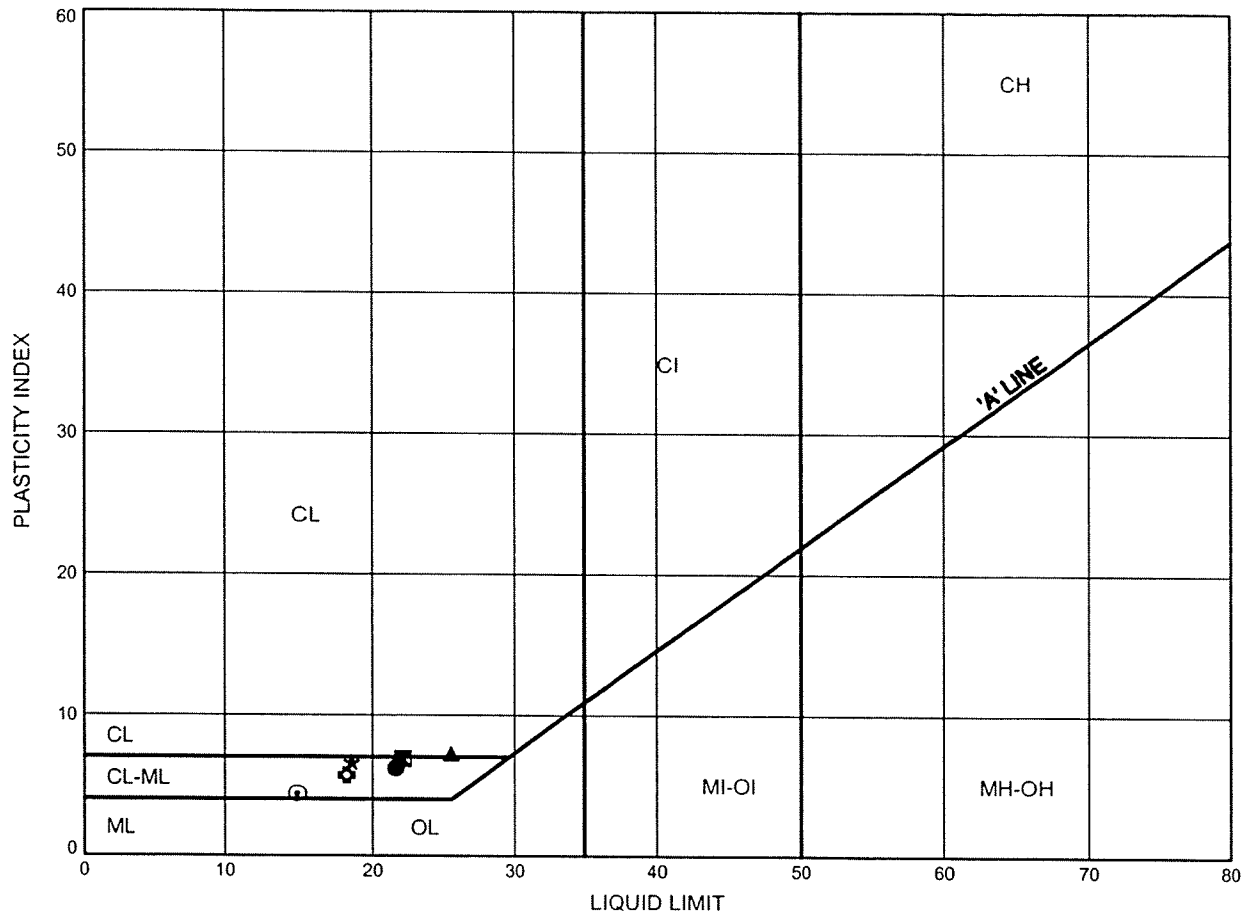


Prep'd AN
Chkd. RPR

Hwy 404 Extension ATTERBERG LIMITS TEST RESULTS

FIGURE E56

CLAYEY SILT to SILT



SYMBOL	BH	DEPTH (m)	ELEV. (m)
●	08-19	2.51	266.09
⊠	08-20	1.75	266.95
▲	08-21	3.28	264.82
★	08-45	15.47	242.80
⊙	08-46	17.07	239.63
⊗	08-47	7.92	249.46

Date July 2009
Project 19-1605-95

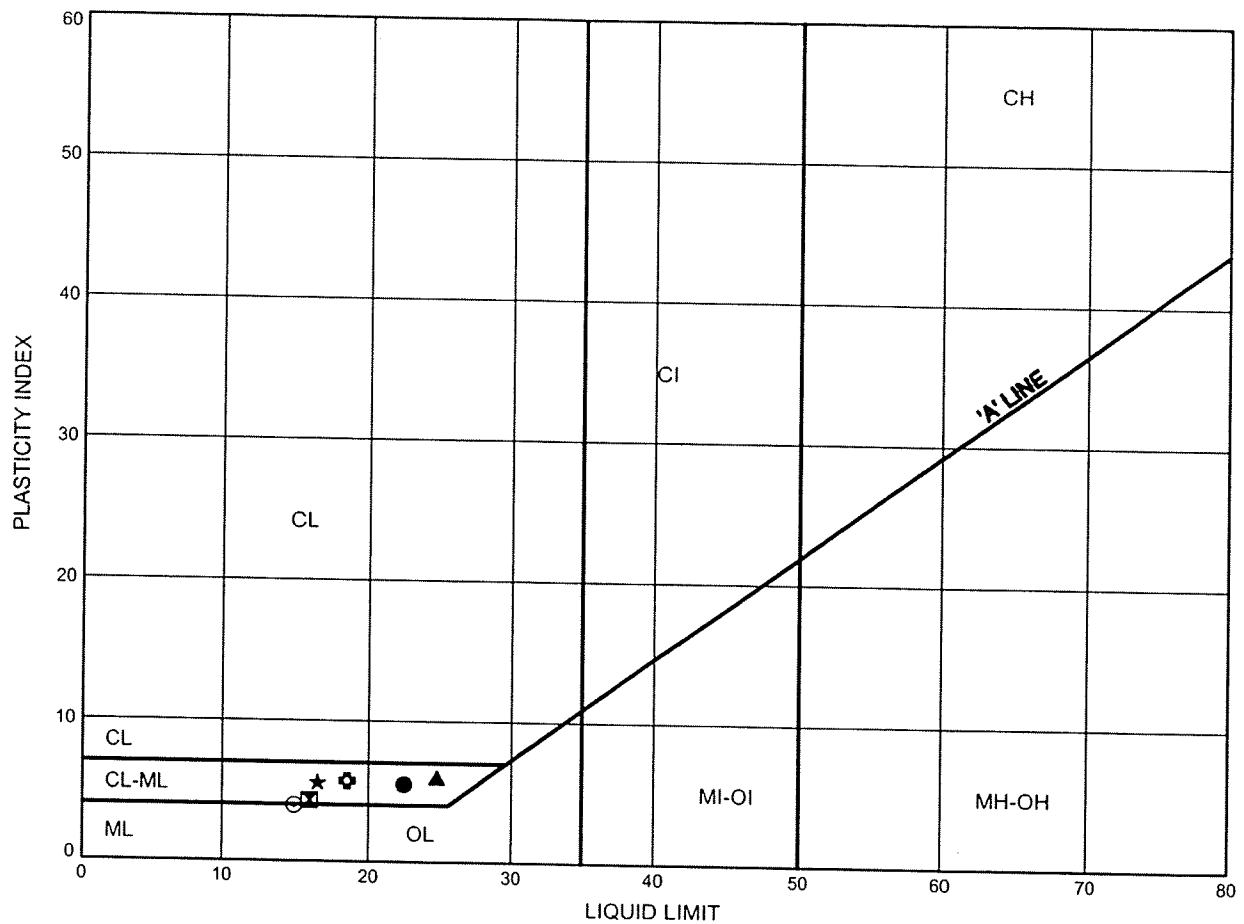


Prep'd MFA
Chkd. DEE

Hwy 404 Extension ATTERBERG LIMITS TEST RESULTS

FIGURE E57

CLAYEY SILT to SILT



SYMBOL	BH	DEPTH (m)	ELEV. (m)
●	08-47	20.12	237.26
⊠	08-53	3.54	258.60
▲	08-54	2.59	258.41
★	08-55	6.40	255.27
⊙	QSR1-1	9.45	247.47
⊕	QSR1-2	3.35	253.69

Date July 2009

Project 19-1605-95

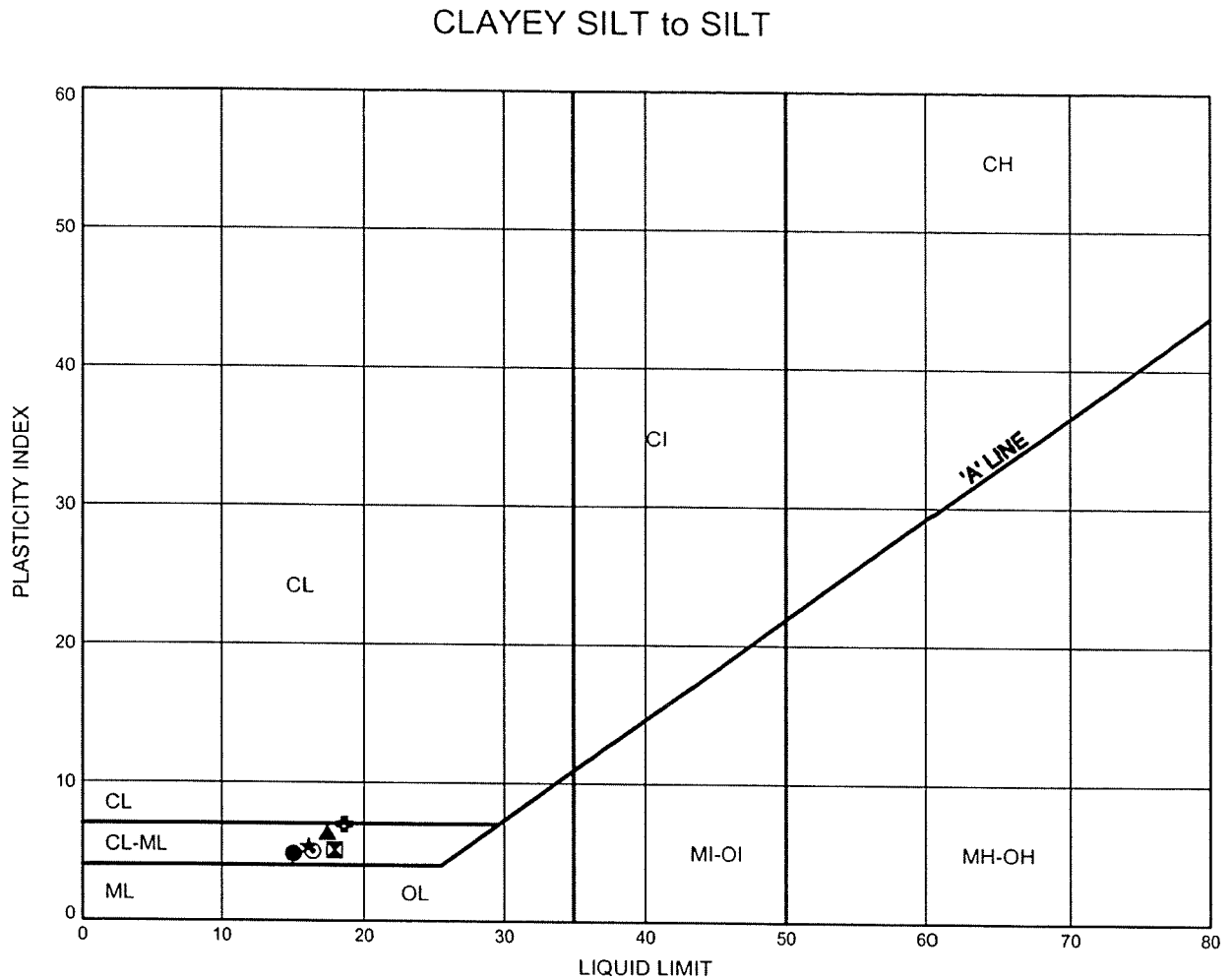


Prep'd MFA

Chkd. DEE

Hwy 404 Extension ATTERBERG LIMITS TEST RESULTS

FIGURE E58



SYMBOL	BH	DEPTH (m)	ELEV. (m)
●	QSR1-2	7.92	249.12
⊠	QSR1-2	10.97	246.07
▲	QSR2-1	4.88	251.32
★	QSR2-1	9.45	246.75
⊙	QSR2-2	7.92	248.44
⊕	QSR2-3	3.35	253.48

Date July 2009
Project 19-1605-95

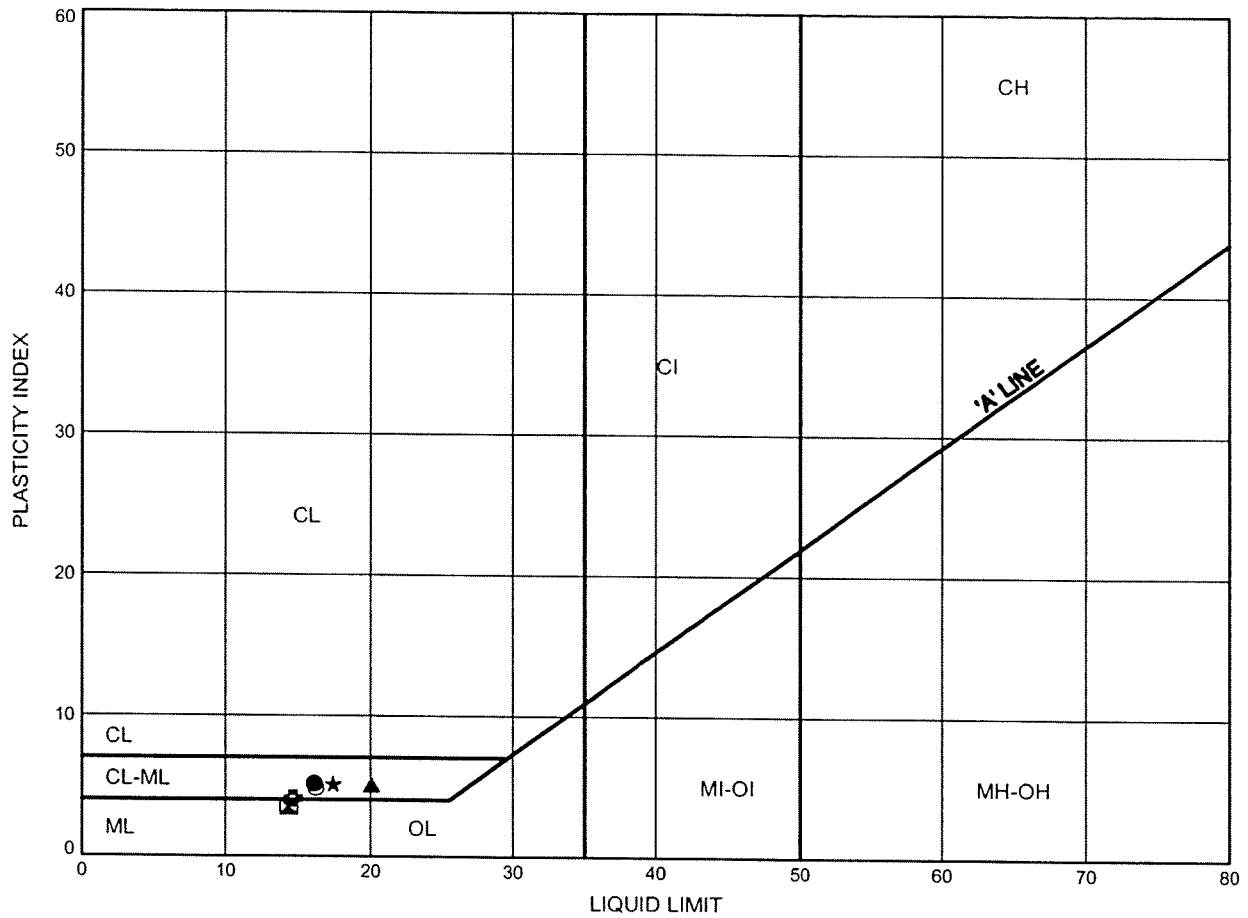


Prep'd MFA
Chkd. DEE

Hwy 404 Extension ATTERBERG LIMITS TEST RESULTS

FIGURE E59

CLAYEY SILT to SILT



SYMBOL	BH	DEPTH (m)	ELEV. (m)
●	QSR2-3	6.40	250.43
⊠	QSR2-4	6.40	249.10
▲	QSR2-4	12.50	243.00
★	QSR3-1	3.35	252.02
⊙	QSR3-1	14.02	241.35
⊛	QSR3-2	12.50	243.01

Date July 2009

Project 19-1605-95



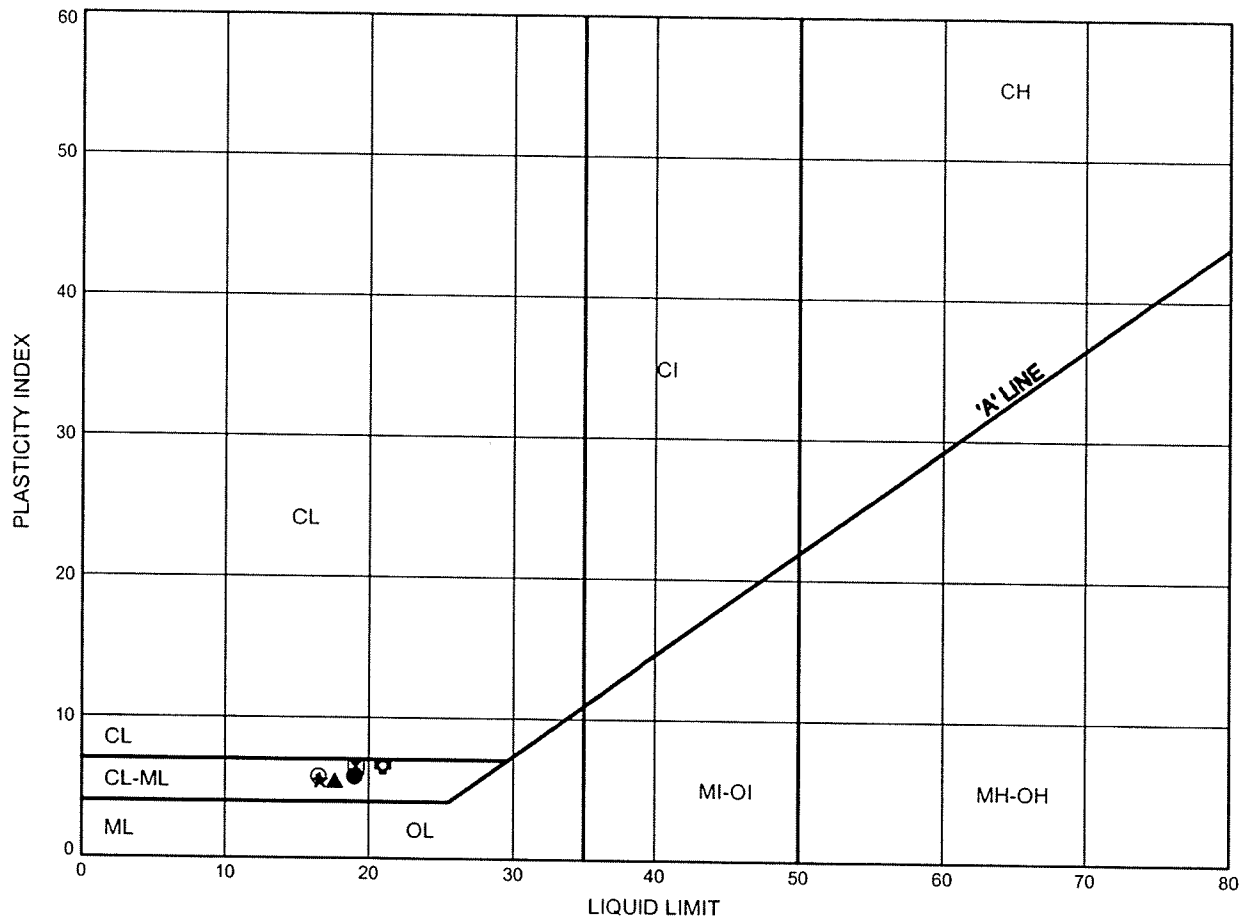
Prep'd MFA

Chkd. DEE

Hwy 404 Extension ATTERBERG LIMITS TEST RESULTS

FIGURE E60

CLAYEY SILT to SILT



SYMBOL	BH	DEPTH (m)	ELEV. (m)
●	QSR3-3	7.92	247.92
⊠	QSR3-4	6.40	249.25
▲	QSR3-5	2.59	252.44
★	QSR3-5	6.40	248.63
⊙	QSR3-5	9.45	245.58
⊕	QSR4-1	2.59	251.15

Date July 2009

Project 19-1605-95



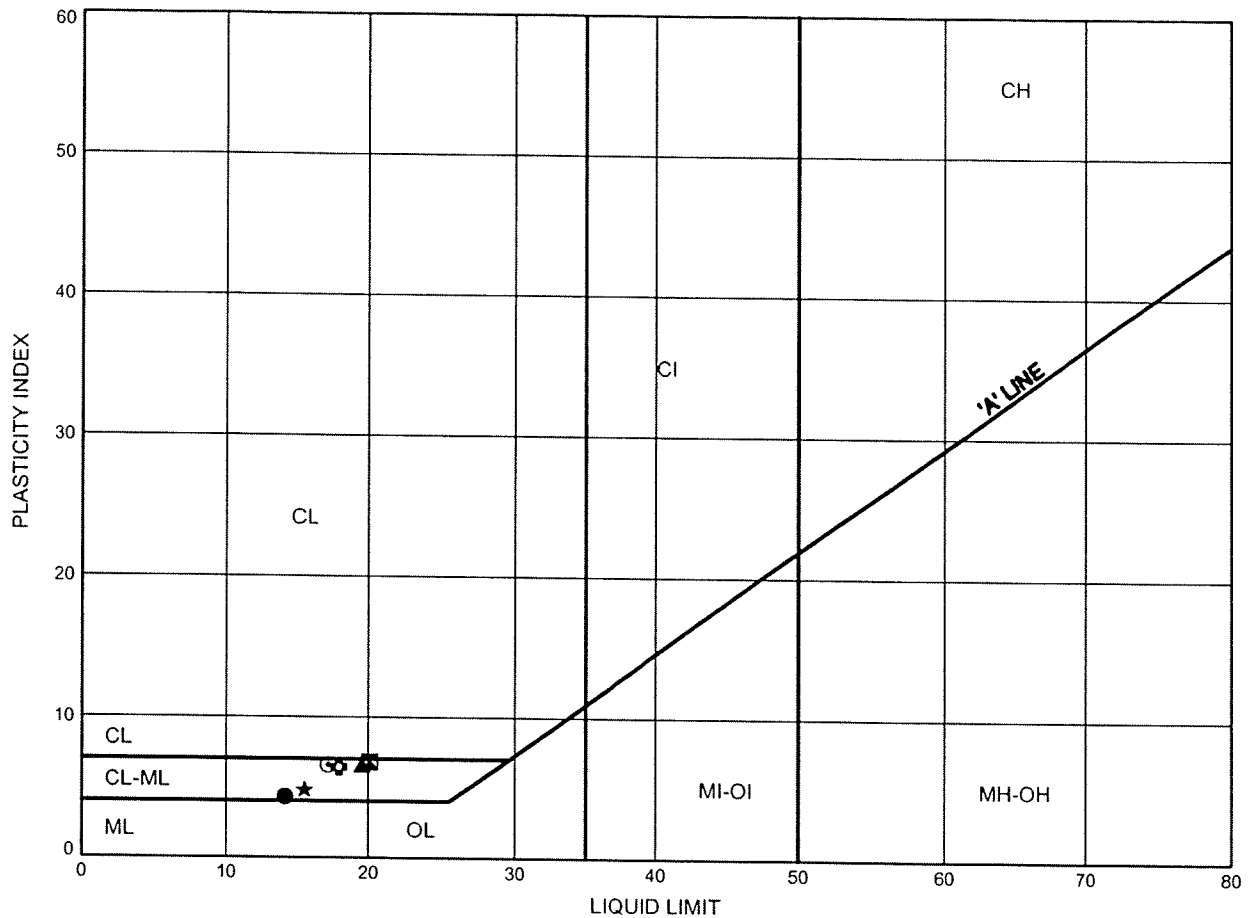
Prep'd MFA

Chkd. DEE

Hwy 404 Extension ATTERBERG LIMITS TEST RESULTS

FIGURE E61

CLAYEY SILT to SILT



SYMBOL	BH	DEPTH (m)	ELEV. (m)
●	QSR4-1	6.40	247.34
⊠	QSR4-2	2.59	252.26
▲	QSR4-3	4.88	252.27
★	QSR4-3	10.97	246.18
⊙	QSR4-4	3.35	252.08
⊛	QSR4-4	7.92	247.51

Date July 2009

Project 19-1605-95



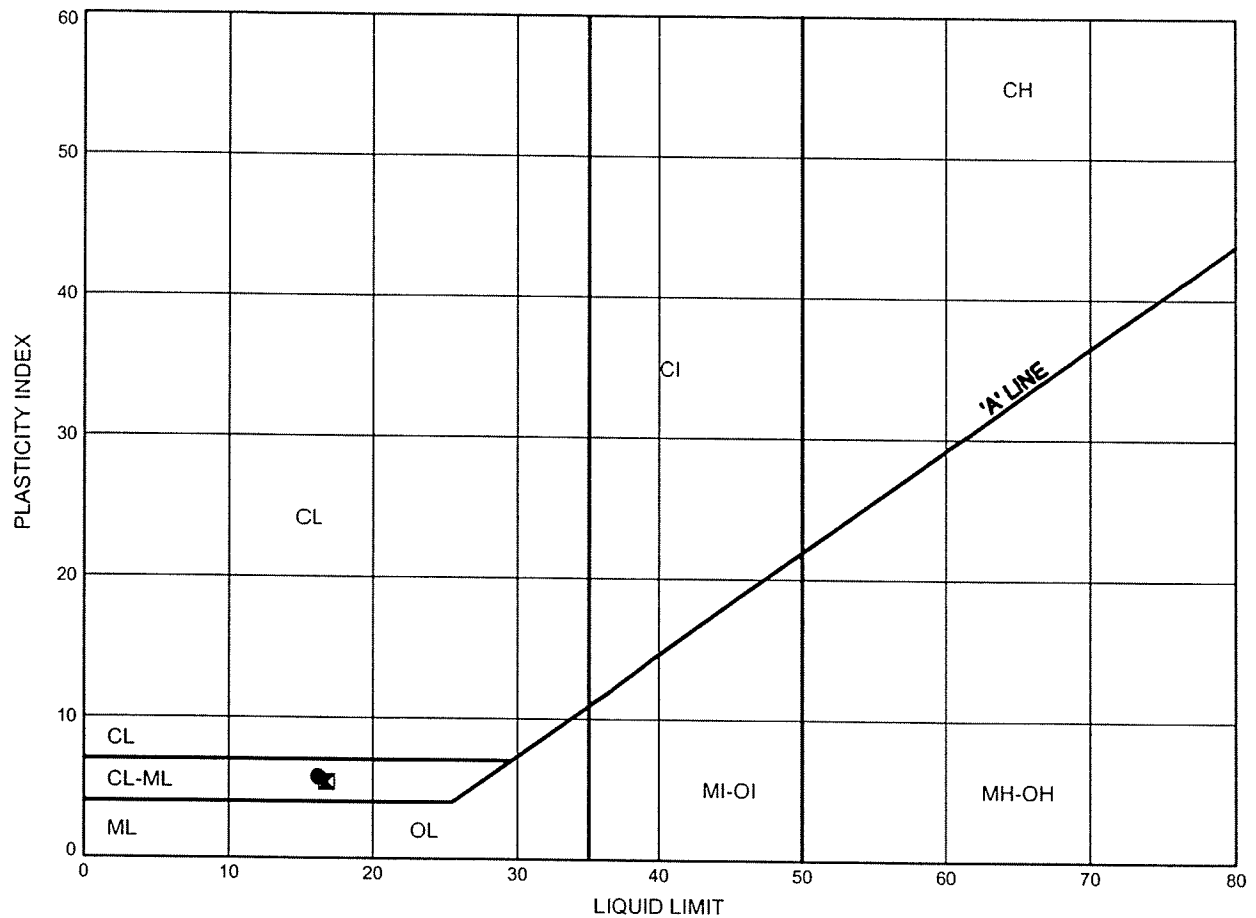
Prep'd MFA

Chkd. DEE

Hwy 404 Extension ATTERBERG LIMITS TEST RESULTS

FIGURE E62

CLAYEY SILT to SILT



SYMBOL	BH	DEPTH (m)	ELEV. (m)
●	QSR4-4	10.97	244.46
☒	QSR4-5	9.45	245.98

Date July 2009
 Project 19-1605-95



Prep'd MFA
 Chkd. DEE

APPENDIX F

**PRIVATE WELL SURVEY FORMS
AND WELL CONSTRUCTION DETAILS**

Section 3: STANDARD FORMS

Form 1: Field Survey Documentation Form

General

Location: 1656 Green Lane Project: Hwy 404
Owner: Rice Commercial Group Date: June 30, 2001
Person Interviewed: John Metcalfe

Background

Owned Property / Tenant Since: tenant June 2007
Current Problems? Describe: N/A

Water Use (Number of Residents): 3 people (domestic, drink)

Recent Changes In Water Use: None

Prior Investigations On Water / Well: None

Results: No shortages

Resident's Statement: Since acquiring the property there have
been no known problems with the water
supply.

Section 3: STANDARD FORMS

Page 2 of 3

Well In Use

Location On Property: North of house (approx 15m from house)

Type: ☐ Dug ☒ Overburden
☒ Drilled ☐ Bedrock

Installation Date: mid 80's

From Well Record:

Pump Rate: _____ Total Depth: _____ Pump Depth: _____

Screened Interval: _____ Diameter: 0.15m

Completed In: _____ Static Water Level: _____

Measured Water Level: _____

Reference Point: ☐ Ground Surface
☐ Casing Top

Casing Extension Above Ground Surface: 0.3m

Problems / Comments: None

Historic Sample Results?: None known
Sampled By: _____

Results (Append If Insufficient Space): _____

Sample Obtained Today? yes Location: outside faucet

Observations:

Colour: None Odour: None

Sediment: None Sheening: None

Section 3: STANDARD FORMS

Page 3 of 3

Water Treatment System

System Present? Softener

Type:

Particle Filter / Carbon Filter / Reverse Osmosis / Distillation / Iron Filter
Green Sand / Ultra Violet / Other _____

Date Of Installation: Unknown

Services:

☒ Entire House
☐ Kitchen Faucet Only

Septic System

Location On Property: Unknown by John Metcalfe

Problems / Comments: None known

Notes

Attach a hand drawn site plan showing location of the well relative to other features.

Section 3: STANDARD FORMS

Form 1: Field Survey Documentation Form

General

Location: 1965 Greenlane Project: Hung 404

Owner: Rice Commercial Group Date: June 30, 2007

Person Interviewed: Clay / John Metcalfe

Background

Owned Property / Tenant Since: July 2007

Current Problems? Describe: None reported

Water Use (Number of Residents): 1 domestic and drink

Recent Changes In Water Use:

Prior Investigations On Water / Well:

Results: No shortages

Resident's Statement: No problems reported since
acquiring the property.

Section 3: STANDARD FORMS

Page 2 of 3

Well In Use

Location On Property: South west (40 m from house)

Type: ☐ Dug ☒ Overburden
☒ Drilled ☐ Bedrock

Installation Date: unknown

From Well Record:

Pump Rate: _____ Total Depth: _____ Pump Depth: _____

Screened Interval: _____ Diameter: 0.15 m

Completed In: _____ Static Water Level: _____

Measured Water Level: _____

Reference Point: ☐ Ground Surface
☐ Casing Top

Casing Extension Above Ground Surface: 0.45 m

Problems / Comments: None reported

Historic Sample Results?: None known

Sampled By: _____

Results (Append If Insufficient Space): _____

Sample Obtained Today? yes Location: kitchen faucet

Observations:

Colour: None Odour: None

Sediment: None Sheening: None

Section 3: STANDARD FORMS

Page 3 of 5

Water Treatment System

System Present? Nothing

Type:

Particle Filter / Carbon Filter / Reverse Osmosis / Distillation / Iron Filter
Green Sand / Ultra Violet / Other _____

Date Of Installation: _____

Services:

☒ Entire House
☐ Kitchen Faucet Only

Septic System

Location On Property: North of the house

Problems / Comments: No backups known of

Notes

Attach a hand drawn site plan showing location of the well relative to other features.

Section 3: STANDARD FORMS

Form 1: Field Survey Documentation Form

General

Location: 18574 Woodbine Ave Project: Henry 404 Extension

Owner: Rice Commercial Group Date: June 29/2009

Person Interviewed: M. Mendes

Background

Owned Property / Tenant Since: Dec 2008

Current Problems? Describe: No shortages, no chemical issues

No problems reported

Water Use (Number of Residents): 2 people (domestic use; no drink)

Recent Changes In Water Use: N/A

Prior Investigations On Water / Well: None

Results: No shortages

Resident's Statement: No problems to date.

Section 3: STANDARD FORMS

Page 2 of 3

Well In Use

Location On Property: West of house (approx 35m) at baseline

Type: ☒ Dug ☒ Overburden
☐ Drilled ☐ Bedrock

Installation Date: _____

From Well Record:

Pump Rate: _____ Total Depth: _____ Pump Depth: _____

Screened Interval: _____ Diameter: 0.15 m

Completed In: _____ Static Water Level: _____

Measured Water Level: Not measured

Reference Point: ☐ Ground Surface
☐ Casing Top

Casing Extension Above Ground Surface: 0.45m

Problems / Comments: N/A

Historic Sample Results?:

Sampled By: None known

Results (Append If Insufficient Space): _____

Sample Obtained Today? yes

Location: Kitchen faucet

Observations:

Colour: clear

Odour: None

Sediment: None

Sheening: None

Section 3: STANDARD FORMS

Page 3 of 3

Water Treatment System

System Present? Water Softener only

Type: Particle Filter / Carbon Filter / Reverse Osmosis / Distillation / Iron Filter
Green Sand / Ultra Violet / Other _____

Date Of Installation: _____

Services: ☒ Entire House
☐ Kitchen Faucet Only

Septic System

Location On Property: Not known / appears north of house

Problems / Comments: None reported

Notes *Attach a hand drawn site plan showing location of the well relative to other features.*

Section 3: STANDARD FORMS

Form 1: Field Survey Documentation Form

General

Location: 20086 Woodbine Project: Hwy 404 Extension

Owner: Buckle Date: June 24/09

Person Interviewed: Sarah Buckle

Background

Owned Property / Tenant Since: 50 years

Current Problems? Describe: no shortages, ~~some water quality~~

Water Use (Number of Residents): 4 domestic / livestock

Recent Changes In Water Use: None

Prior Investigations On Water / Well: No

Results: _____

Resident's Statement: No problems at all in the past

Section 3: STANDARD FORMS

Page 2 of 3

Well In Use

Location On Property: South of the house (~10m from house/~30m from livestock)

Type: ☐ Dug ☒ Overburden
☒ Drilled ☐ Bedrock

Installation Date: Unknown

From Well Record:

Pump Rate: _____ Total Depth: _____ Pump Depth: _____

Screened Interval: _____ Diameter: 0.150m

Completed In: _____ Static Water Level: _____

Measured Water Level: unknown sealed

Reference Point: ☐ Ground Surface
☐ Casing Top

Casing Extension Above Ground Surface: 0.2m

Problems / Comments: None reported

Historic Sample Results?:

Sampled By: None

Results (Append If Insufficient Space):

Sample Obtained Today? Yes Location: Kitchen sink

Observations:

Colour: None Odour: None

Sediment: None Sheening: None

Section 3: STANDARD FORMS

Page 3 of 3

Water Treatment System

System Present? None / water softener

Type:

Particle Filter / Carbon Filter / Reverse Osmosis / Distillation / Iron Filter
Green Sand / Ultra Violet / Other _____

Date Of Installation: _____

Services:

☒ Entire House
☐ Kitchen Faucet Only

Septic System

Location On Property: West of house (up gradient)

Problems / Comments: livestock upgradient from well

Notes

Attach a hand drawn site plan showing location of the well relative to other features.

Section 3: STANDARD FORMS

Form 1: Field Survey Documentation Form

General

Location: 2088 Farr Ave Project: Hwy 404 Extension

Owner: M. Franza Date: June 24, 2009

Person Interviewed: Marianna Franza

Background

Owned Property / Tenant Since: owner since 1977

Current Problems? Describe: slight shortage since the const.
of Doane Road well (since 1991-93). Wait 20-30
mins. for recovery.

Water Use (Number of Residents): 3 people

Recent Changes In Water Use: N/A

Prior Investigations On Water / Well: N/A

Results: _____

Resident's Statement: cannot ~~empty~~ use water continuously
as well will run dry (large quantities of water)
runs around 20 min. Drink the water (not for
company/guests)

Section 3: STANDARD FORMS

Page 2 of 3

Well In Use

Location On Property: North west corner (~10m from house)

Type: ☐ Dug ☒ Overburden
☒ Drilled ☐ Bedrock

Installation Date: _____

From Well Record:

Pump Rate: _____ Total Depth: 30.07m Pump Depth: _____

Screened Interval: _____ Diameter: 135 mm

Completed In: ~1977 Static Water Level: _____

Measured Water Level: 15.92m

Reference Point: ☐ Ground Surface
☒ Casing Top

Casing Extension Above Ground Surface: 300mm

Problems / Comments: Well is around 32 years old
use for all domestic purposes.

Historic Sample Results?:

Sampled By: Health Dept. yes (around 2008)

Results (Append If Insufficient Space): N/A

Sample Obtained Today? yes Location: Kitchen tap

Observations:

Colour: clear Odour: N/A

Sediment: N/A Sheening: None

Section 3: STANDARD FORMS

Page 3 of 3

Water Treatment System

System Present? yes - water softener

Type: Particle Filter / Carbon Filter / Reverse Osmosis / Distillation / Iron Filter
Green Sand / Ultra Violet / Other _____

Date Of Installation: ~ 2005 (filter replaced in 2008)

Services: ☒ Entire House
☐ Kitchen Faucet Only

Septic System

Location On Property: Not known

Problems / Comments: No problems reported.

Notes *Attach a hand drawn site plan showing location of the well relative to other features.*

Paid around \$2000 for UV filter because of
E.Coli outbreak in the area. Never had issues
with flooding. Well overflowed last year during
rain. Some contamination was suspected.

Section 3: STANDARD FORMS

Form 1: Field Survey Documentation Form

General

Location: 2176 Farr Ave Project: Hwy 404 Extension
Owner: Charles Avenue Date: 06/24/02
Person Interviewed: N/A

Background

Owned Property / Tenant Since: Unknown

Current Problems? Describe: Water well not used / house
abandoned

Water Use (Number of Residents): _____

Recent Changes In Water Use: Not used

Prior Investigations On Water / Well: N/A

Results: _____

Resident's Statement: N/A

Section 3: STANDARD FORMS

Page 2 of 3

Well In Use

Location On Property: South west of house (approx. 15m)

Type: ☐ Dug ☒ Overburden
☒ Drilled ☐ Bedrock

Installation Date: _____

From Well Record:

Pump Rate: _____ Total Depth: N/A Pump Depth: _____

Screened Interval: _____ Diameter: 0.150 m

Completed In: _____ Static Water Level: Sealed well (retrofit into dug well)

Measured Water Level: Not measured

Reference Point: ☐ Ground Surface approx. 1.5 m BGS
☒ Casing Top

Casing Extension Above Ground Surface: -1.5 m

Problems / Comments: N/A

Historic Sample Results?:

Sampled By: N/A

Results (Append If Insufficient Space):

Sample Obtained Today? yes Location: back faucet

Observations:

Colour: clear Odour: None

Sediment: None Sheening: None

Section 3: STANDARD FORMS

Page 3 of 3

Water Treatment System

System Present? N/A

Type:

Particle Filter / Carbon Filter / Reverse Osmosis / Distillation / Iron Filter
Green Sand / Ultra Violet / Other _____

Date Of Installation: N/A

Services:

☐ Entire House
☐ Kitchen Faucet Only

Septic System

Location On Property: NA

Problems / Comments:

Notes

Attach a hand drawn site plan showing location of the well relative to other features.

Not occupied

Section 3: STANDARD FORMS

Form 1: Field Survey Documentation Form

General

Location: 2203 Farr Ave Project: Henry 404 Extension
Owner: Ida Bertolin Date: June 24/07
Person Interviewed: Ida Bertolin

Background

Owned Property / Tenant Since: yes
Current Problems? Describe: None

Water Use (Number of Residents): drink / wash domestic

Recent Changes In Water Use: None

Prior Investigations On Water / Well: No

Results:

Resident's Statement: No problems to date.

Section 3: STANDARD FORMS

Page 2 of 3

Well In Use

Location On Property: Northwest property (40m from house)

Type: ☒ Dug ☒ Overburden
☐ Drilled ☐ Bedrock

Installation Date: unknown

From Well Record:

Pump Rate: _____ Total Depth: _____ Pump Depth: _____

Screened Interval: concrete Diameter: 1.2m

Completed In: _____ Static Water Level: _____

Measured Water Level: 3.21m

Reference Point: ☐ Ground Surface
☒ Casing Top

Casing Extension Above Ground Surface: 0.3m

Problems / Comments: NA

Historic Sample Results?:

Sampled By: Nand

Results (Append If Insufficient Space):

Sample Obtained Today? yes Location: Kitchen

Observations:

Colour: None Odour: None

Sediment: None Sheening: None

Section 3: STANDARD FORMS

Page 3 of 3

478-4136

Would like a call when results are known.

Water Treatment System

System Present? None

Type:

Particle Filter / Carbon Filter / Reverse Osmosis / Distillation / Iron Filter
Green Sand / Ultra Violet / Other None

Date Of Installation:

Services:

☒ Entire House
☐ Kitchen Faucet Only

Septic System

Location On Property: Southwest property

Problems / Comments:

None

Notes

Attach a hand drawn site plan showing location of the well relative to other features.

Section 3: STANDARD FORMS

Form 1: Field Survey Documentation Form A060299

General

Location: 19601 Leslie Ave Project: Hwy 404 Extension

Owner: _____ Date: June 24/2009

Person Interviewed: Bill Wheeler

Background

Owned Property / Tenant Since: _____

Current Problems? Describe: only 5' (1.5m) static water,

Two wells have gone dry since installation of
Docue Road well

Water Use (Number of Residents): Domestic, livestock

Recent Changes In Water Use: lower water level

Prior Investigations On Water / Well: weekly bacteriological testing

Results: Posted on web - kept under O.Reg 17

Resident's Statement: _____

3 wells onsite (1 removed @ 100 ft - dry)
employs ~200 people - 12 residents full time and
livestock; agriculture; Pump @ 12 GPM full time

Section 3: STANDARD FORMS

Page 2 of 3

Well In Use

Location On Property: East portion (10m south of maintenance building)

Type: ☐ Dug ☐ Overburden
☒ Drilled ☒ Bedrock

Installation Date: ~2007

From Well Record:

Pump Rate: 12 GAL/min Total Depth: ~300 ft Pump Depth: ~300 ft

Screened Interval: 3' (1m) Diameter: 150 mm

Completed In: ~2007 Static Water Level: reported @ 5' (1.5m)

Measured Water Level: N/A

Reference Point: ☐ Ground Surface
☐ Casing Top

Casing Extension Above Ground Surface: 1.0m

Problems / Comments: Low static level due to
other wells in proximity / poor drainage to
the east

Historic Sample Results?:

Sampled By: B. Wheeler (weekly)

Results (Append If Insufficient Space): on web

Sample Obtained Today? Yes

Location: Maintenance Building

Observations:

Colour: Clear

Odour: None

Sediment: None

Sheening: None

Section 3: STANDARD FORMS

Page 3 of 3

Water Treatment System

System Present? yes

Type:

Particle Filter / Carbon Filter / Reverse Osmosis / Distillation / Iron Filter
Green Sand / Ultra Violet / Other Chlorine

Date Of Installation:

Services: 1066299 ☒ Entire House / compound
☐ Kitchen Faucet Only

Septic System

Location On Property: Several throughout property

Problems / Comments: None reported.

Notes

Attach a hand drawn site plan showing location of the well relative to other features.

Section 3: STANDARD FORMS

Form 1: Field Survey Documentation Form

General

Location: 20089 Leslie Project: Hwy 404 Extens
Owner: Metris Development Date: June 24/2009
Person Interviewed: Kevin Chadwick

Background

Owned Property / Tenant Since: Feb '09

Current Problems? Describe: Some door issues, no shortages
use for livestock

Water Use (Number of Residents): 4 use the water (washing only; no drinking)

Recent Changes In Water Use: None

Prior Investigations On Water / Well: No

Results: _____

Resident's Statement: No concerns about the water
since becoming a tenant. Recently installed
a new foot valve on pump.

Section 3: STANDARD FORMS

Page 2 of 3

Well In Use

Location On Property: in barn

Type: ☒ Dug ☒ Overburden
☐ Drilled ☐ Bedrock

Installation Date: > 50 years old

From Well Record:

Pump Rate: _____ Total Depth: 6.42 m Pump Depth: ~6.4 m

Screened Interval: bricked Diameter: 1.5 m

Completed In: unknown Static Water Level: _____

Measured Water Level: 1.73 m

Reference Point: ☒ Ground Surface
☒ Casing Top

Casing Extension Above Ground Surface: None

Problems / Comments: in barn with livestock

Historic Sample Results?:

Sampled By: N/A

Results (Append If Insufficient Space):

Sample Obtained Today? yes

Location: kitchen sink

Observations:

Colour: normal

Odour: normal

Sediment: None

Sheening: None

Section 3: STANDARD FORMS

Page 3 of 3

Water Treatment System

System Present? water softener.

Type:

Particle Filter / Carbon Filter / Reverse Osmosis / Distillation / Iron Filter
Green Sand / Ultra Violet / Other unknown

Date Of Installation: _____

Services:

☒ Entire House/Barn
☐ Kitchen Faucet Only

Septic System

Location On Property: South and north side of residence

Problems / Comments: No problems / flushed regularly

Notes

Attach a hand drawn site plan showing location of the well relative to other features.

Section 3: STANDARD FORMS

Form 1: Field Survey Documentation Form

General

Location: 1825 Doane Road Project: Hwy 404
Owner: Paul Mayhew Date: May 17, 2009
Person Interviewed: Paul Mayhew

Background

Owned Property / Tenant Since: 1990
Current Problems? Describe: occasional shortages of supply

Water Use (Number of Residents): 4 (domestic and drinking)

Recent Changes In Water Use: None

Prior Investigations On Water / Well: None

Results:

Resident's Statement: Occasional shortages after prolonged
use (multiple showers/washing dishes/laundry)

Section 3: STANDARD FORMS

Page 2 of 3

Well In Use

Location On Property: North of Commercial building (~20m)

Type: ☒ Dug ☒ Overburden
☐ Drilled ☐ Bedrock

Installation Date: Unknown

From Well Record:

Pump Rate: _____ Total Depth: ~35ft (~10.6m) Pump Depth: _____

Screened Interval: _____ Diameter: 0.9m

Completed In: _____ Static Water Level: _____

Measured Water Level: 0.96m

Reference Point: ☐ Ground Surface
☒ Casing Top

Casing Extension Above Ground Surface: 0.25 - 0.3m

Problems / Comments: None reported

Historic Sample Results?: None reported

Sampled By: _____

Results (Append If Insufficient Space): _____

Sample Obtained Today? yes

Location: Commercial kitchen faucet

Observations:

Colour: None

Odour: None

Sediment: None

Sheening: None

Section 3: STANDARD FORMS

Page 3 of 3

Water Treatment System

System Present? yes

Type: Particle Filter / Carbon Filter / Reverse Osmosis / Distillation / Iron Filter
Green Sand / Ultra Violet / Other _____

Date Of Installation: _____

Services: ☒ Entire House
☐ Kitchen Faucet Only

Septic System

Location On Property: South of residence

Problems / Comments: None reported

Notes

Attach a hand drawn site plan showing location of the well relative to other features.

Section 3: STANDARD FORMS

Form 1: Field Survey Documentation Form

General

Location: 1982 Quinsville SR Project: Hwy 404

Owner: 1604270 Ontario Inc Date: May 17, 2009

Person Interviewed: Tenant (declined to give name)

Background

Owned Property / Tenant Since: Mar 2009

Current Problems? Describe: None reported

Water Use (Number of Residents): 3 (domestic and drink)

Recent Changes In Water Use: New well installed by owner

Prior Investigations On Water / Well: None known

Results:

Resident's Statement: Since new well installed there
have been no problems with supply or other
issues. Some sediment in water at first, though
the amount has reduced with time and use.

Section 3: STANDARD FORMS

Page 2 of 3

Well In Use

Location On Property: South of house (~5m from residence)

Type: ☐ Dug ☐ Overburden
☒ Drilled ☒ Bedrock

Installation Date: April 2009

From Well Record:

Pump Rate: _____ Total Depth: >100ft (>30m) Pump Depth: _____

Screened Interval: _____ Diameter: 0.15 m

Completed In: 2009 Static Water Level: _____

Measured Water Level: >30m depth

Reference Point: ☒ Ground Surface
☐ Casing Top

Casing Extension Above Ground Surface: 1.0m

Problems / Comments: None reported: MOE Well ID#
AD81416

Historic Sample Results?: No

Sampled By: _____

Results (Append If Insufficient Space):

Sample Obtained Today? yes

Location: Kitchen Faucet

Observations:

Colour: None

Odour: None

Sediment: None

Sheening: None

Section 3: STANDARD FORMS

Page 3 of 3

Water Treatment System

System Present? No (water softener - maybe)

Type:

Particle Filter / Carbon Filter / Reverse Osmosis / Distillation / Iron Filter
Green Sand / Ultra Violet / Other _____

Date Of Installation: _____

Services:

Entire House

Kitchen Faucet Only

} unknown to tenant

Septic System

Location On Property: North of residence (reported)

Problems / Comments: None

Notes

Attach a hand drawn site plan showing location of the well relative to other features.

APPENDIX G
MUNICIPAL WELLS – ANNUAL REPORT

OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	260001955
Drinking-Water System Name:	Sharon/Queensville Water Supply System
Drinking-Water System Owner:	Regional Municipality of York
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2008 to December 31, 2008

Complete if your Category is Large Municipal Residential or Small Municipal Residential

Does your Drinking-Water System serve more than 10,000 people? Yes [] No [X]

Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No []

Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.

Regional Municipality of York
Administrative Building
Transportation and Works Department
17250 Yonge Street
Newmarket, Ontario

Complete for all other Categories.

Number of Designated Facilities served:

Did you provide a copy of your annual report to all Designated Facilities you serve?

Yes [] No []

Number of Interested Authorities you report to:

Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility?

Yes [] No []

Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Sharon Distribution System	260001747
Queensville Distribution System	260001942

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water?

Yes [X] No []

Indicate how you notified system users that your annual report is available, and is free of charge.

- ☒ Public access/notice via the web
☒ Public access/notice via Government Office
☒ Public access/notice via a newspaper
☒ Public access/notice via Public Request
☐ Public access/notice via a Public Library
☐ Public access/notice via other method _____

Describe your Drinking-Water System

York Region operates four production wells in the community of Queensville. The wells are a major source of water for the Town of Newmarket. These wells also supply water to the residents of Queensville and Sharon. There are no production wells in Sharon.

The Queensville wells draw water from the Yonge Street Aquifer which is also the water source for the Town of Newmarket and the Town of Aurora. Water withdrawal from each of the wells is regulated by a Permit to Take Water, issued by the Ministry of the Environment for the Yonge Street Aquifer as a whole. York Region is continuing to work to improve our understanding of the Yonge Street Aquifer and the effects of water taking through detailed hydrogeological studies, numerical modeling analysis and an extensive monitoring program.

Chloramination (adding chlorine and ammonia) is the disinfection process used for the Sharon/Queensville production wells. Sodium silicate is added to the water to reduce the potential for iron to stain plumbing fixtures and laundry in the serviced area. Fluoride is not added to the water supply.

Following treatment water enters the Sharon/Queensville distribution system from two points: wells #1 and #2 combined, and wells #3 and #4 combined. There is one storage tank servicing the community of Sharon.

York Region is the wholesale supplier of water to the communities of Sharon and Queensville and is responsible for the supply, production, treatment and storage of water. The Town of East Gwillimbury owns and operates the distribution system that delivers the water from the regional watermain to homes in Sharon and Queensville.

List all water treatment chemicals used over this reporting period

Chlorine Gas
Sodium Silicate
Ammonium Sulphate

Were any significant expenses incurred to?

- ☐ Install required equipment
☐ Repair required equipment
☐ Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred
Some of the following expenditures represent only part of the total project costs.

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	Number of Samples	Range of E.Coli Or Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Raw	212	0	0-1		
Treated	106	0	0	106	1-5
Distribution					

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (min #)-(max #)
Turbidity (Treated)	8760	0.032 – 3.458
Turbidity (Raw)	54	0.130 – 2.2
Chlorine	8760	0.760 – 3.368
Fluoride (If the DWS provides fluoridation)		

NOTE: For continuous monitors use 8760 as the number of samples.

NOTE: Record the unit of measure if it is *not* milligrams per litre.

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Note: See attached results for Inorganic parameters

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony				
Arsenic				
Barium				
Boron				
Cadmium				
Chromium				
Lead				
Mercury				
Selenium				
Sodium				
Uranium				
Fluoride				
Nitrite				
Nitrate				

Summary of lead testing under Schedule 15.1 during this reporting period

(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Number of Exceedances
Plumbing			
Distribution			

Summary of Organic parameters sampled during this reporting period or the most recent sample results

Note: See attached results for Organic parameters (THM values in table below)

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor				
Aldicarb				
Aldrin + Dieldrin				
Atrazine + N-dealkylated metabolites				
Azinphos-methyl				
Bendiocarb				
Benzene				
Benzo(a)pyrene				

Bromoxynil				
Carbaryl				
Carbofuran				
Carbon Tetrachloride				
Chlordane (Total)				
Chlorpyrifos				
Cyanazine				
Diazinon				
Dicamba				
1,2-Dichlorobenzene				
1,4-Dichlorobenzene				
Dichlorodiphenyltrichloroethane (DDT) + metabolites				
1,2-Dichloroethane				
1,1-Dichloroethylene (vinylidene chloride)				
Dichloromethane				
2,4 Dichlorophenol				
2,4-Dichlorophenoxy acetic acid (2,4-D)				
Diclofop-methyl				
Dimethoate				
Dinoseb				
Diquat				
Diuron				
Glyphosate				
Heptachlor + Heptachlor Epoxide				
Lindane (Total)				
Malathion				
Methoxychlor				
Metolachlor				
Metribuzin				
Monochlorobenzene				
Paraquat				
Parathion				
Pentachlorophenol				
Phorate				
Picloram				
Polychlorinated Biphenyls(PCB)				
Prometryne				
Simazine				
THM (NOTE: show latest annual average)				
Wells #1, #2		0.014	Mg/L	
Wells #3, #4		0.02	Mg/L	
Temephos				

Terbufos				
Tetrachloroethylene				
2,3,4,6-Tetrachlorophenol				
Triallate				
Trichloroethylene				
2,4,6-Trichlorophenol				
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)				
Trifluralin				
Vinyl Chloride				

York Region monitors another group of disinfection by-products called haloacetic acids (HAAs). There are no limits set for HAAs in Ontario Drinking Water Standards.

Haloacetic acid	Wells #1, #2 Mg/L June 30	Wells #3, #4 Mg/L June 30
Bromochloroacetic acid	<0.004	<0.004
Dibromoacetic acid	<0.004	<0.004
Dichloroacetic acid	<0.004	0.005
Monobromoacetic acid	<0.004	<0.004
Monochloroacetic acid	<0.02	<0.02
Trichloroacetic acid	0.005	0.006

“<” indicates the result is below the Method Detection Limit

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample

(Only if DWS category is large municipal residential, small municipal residential, large municipal non residential, non municipal year round residential, large non municipal non residential)



Inorganics Test Results

Reading	Units	ODWS		21/01/2008	09/04/2008	14/07/2008	06/10/2008
Antimony as Sb	mg/L	0.006	IMAC	0.0003	0.0005	0.0005	0.0005
Arsenic as As	mg/L	0.025	IMAC	0.0005	0.0006	0.0005	0.0004
Barium as Ba	mg/L	1	MAC		0.148		
Boron as B	mg/L	5	IMAC		0.041		
Cadmium as Cd	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Chromium as Cr	mg/L	0.05	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Fluoride as F	mg/L	0.8	MAC	0.2	0.2	0.21	0.18
Lead as Pb	mg/L	0.01	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Mercury as Hg	mg/L	0.001	MAC		< 0.00002		
Nitrate as N	mg/L	10	MAC	0.06	0.15	0.05	0.03
Nitrite	mg/L	1	MAC	< 0.01	< 0.01	0.01	0.01
Selenium as Se	mg/L	0.01	MAC	0.0002	0.0001	0.0001	< 0.0001
Sodium as Na	mg/L	200	AO	17	17.4	16.4	17.9
Uranium as U	mg/L	0.02	MAC		< 0.0001		

<: indicates the result is below Method Detection Limit

ODWS: Ontario Drinking Water Standard

MAC: Ontario Drinking Water Standard - Health Related (Maximum Acceptable Concentration)

AO: Ontario Drinking Water Standard - Non Health Related (Aesthetic Objective)

mg/L: milligrams per litre, parts per million (ppm)



Organics Test Results

Reading	Units	ODWS	21/01/2008	09/04/2008	14/07/2008	06/10/2008
(DDT) + Metabolites	mg/L	0.03	MAC	< 0.000008		
1,1-dichloroethylene (vinylidene chloride)	mg/L	0.014	MAC	< 0.0003	< 0.0003	< 0.0003
1,2-(o-dcb) Dichlorobenzene	mg/L	0.2	MAC	< 0.0001	< 0.0001	< 0.0001
1,2-Dichloroethane	mg/L	0.005	IMAC	< 0.0001	< 0.0001	< 0.0001
1,4-(p-dcb) Dichlorobenzene	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001
2,3,4,6-Tetrachlorophenol	mg/L	0.1	MAC	< 0.0005		
2,4,5-trichlorophenoxyacetic acid (2,4,5-T)	mg/L	0.28	MAC	< 0.0005		
2,4,6-Trichlorophenol	mg/L	0.005	MAC	< 0.0005		
2,4-Dichlorophenol	mg/L	0.9	MAC	< 0.0004		
2,4-dichlorophenoxyacetic acid (2,4-D)	mg/L	0.1	IMAC	< 0.0008		
Alachlor	mg/L	0.005	IMAC	< 0.0004		
Aldicarb	mg/L	0.009	MAC	< 0.0035		
Aldrin + Dieldrin	mg/L	0.0007	MAC	< 0.000006		
Atrazine + N-dealkylated metabolites	mg/L	0.005	IMAC	< 0.0002		
Azinphos-methyl	mg/L	0.02	MAC	< 0.0003		
Bendiocarb	mg/L	0.04	MAC	< 0.003		
Benzene	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001
Benzo(a)pyrene	mg/L	0.00001	MAC	< 0.00001		
Bromoxynil	mg/L	0.005	IMAC	< 0.0004		
Carbaryl	mg/L	0.09	MAC	< 0.0002		
Carbofuran	mg/L	0.09	MAC	< 0.004		
Carbon Tetrachloride	mg/L	0.005	MAC	< 0.0002	< 0.0002	< 0.0002
Chlordane (Total)	mg/L	0.007	MAC	< 0.000006		
Chlorpyrifos	mg/L	0.09	MAC	< 0.0002		
Cyanazine	mg/L	0.01	IMAC	< 0.0003		
Diazinon	mg/L	0.02	MAC	< 0.0002		
Dicamba	mg/L	0.12	MAC	< 0.0004		
Dichloromethane	mg/L	0.05	MAC	< 0.0005	< 0.0005	< 0.0005
Diclofop-methyl	mg/L	0.009	MAC	< 0.0004		
Dimethoate	mg/L	0.02	IMAC	< 0.0003		
Dinoseb	mg/L	0.01	MAC	< 0.0005		
Diquat	mg/L	0.07	MAC	< 0.0001		
Diuron	mg/L	0.15	MAC	< 0.0002		
Glyphosate	mg/L	0.28	IMAC	< 0.002		
Heptachlor + Heptachlor Epoxide	mg/L	0.003	MAC	< 0.000008		
Lindane	mg/L	0.004	MAC	< 0.000005		
Malathion	mg/L	0.19	MAC	< 0.0002		
Methoxychlor	mg/L	0.9	MAC	< 0.000009		
Metolachlor	mg/L	0.05	IMAC	< 0.0002		
Metribuzin	mg/L	0.08	MAC	< 0.0003		
Monochlorobenzene	mg/L	0.08	MAC	< 0.0001	< 0.0001	< 0.0001
Paraquat	mg/L	0.01	IMAC	< 0.0001		
Parathion	mg/L	0.05	MAC	< 0.0002		



Organics Test Results

Reading	Units	ODWS		21/01/2008	09/04/2008	14/07/2008	06/10/2008
Pentachlorophenol	mg/L	0.06	MAC		< 0.0004		
Phorate	mg/L	0.002	IMAC		< 0.0002		
Picloram	mg/L	0.19	IMAC		< 0.0007		
Polychlorinated Biphenyls (PCBs)	mg/L	0.003	IMAC		< 0.00002		
Prometryne	mg/L	0.001	IMAC		< 0.0002		
Simazine	mg/L	0.01	IMAC		< 0.0002		
Temephos	mg/L	0.28	IMAC		< 0.003		
Terbufos	mg/L	0.001	IMAC		< 0.0002		
Tetrachloroethylene (perchloroethylene)	mg/L	0.03	MAC	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Triallate	mg/L	0.23	MAC		< 0.002		
Trichloroethene	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Trifluralin	mg/L	0.045	IMAC		< 0.000006		
Vinyl Chloride	mg/L	0.002	MAC	< 0.0002	< 0.0002	< 0.0002	< 0.0002

*<: indicates the result is below Method Detection Limit

ODWS: Ontario Drinking Water Standard

MAC: Ontario Drinking Water Standard - Health Related (Maximum Acceptable Concentration)

AO: Ontario Drinking Water Standard - Non Health Related (Aesthetic Objective)

mg/L: milligrams per litre, parts permillion (ppm)



Inorganics Test Results

Reading	Units	ODWS		21/01/2008	09/04/2008	16/07/2008	06/10/2008
Antimony as Sb	mg/L	0.006	IMAC	0.0002	0.0004	0.0003	0.0005
Arsenic as As	mg/L	0.025	IMAC	0.0006	0.0007	0.0005	0.0007
Barium as Ba	mg/L	1	MAC		0.137		
Boron as B	mg/L	5	IMAC		0.045		
Cadmium as Cd	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Chromium as Cr	mg/L	0.05	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Fluoride as F	mg/L	0.8	MAC	0.23	0.22	0.22	0.2
Lead as Pb	mg/L	0.01	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Mercury as Hg	mg/L	0.001	MAC		< 0.00002		
Nitrate as N	mg/L	10	MAC	0.08	0.04	0.05	0.02
Nitrite	mg/L	1	MAC	0.01	< 0.01	< 0.01	0.01
Selenium as Se	mg/L	0.01	MAC	0.0001	0.0003	< 0.0001	0.0003
Sodium as Na	mg/L	200	AO	22.3	22	21.8	21.5
Uranium as U	mg/L	0.02	MAC		< 0.0001		

<: indicates the result is below Method Detection Limit

ODWS: Ontario Drinking Water Standard

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AO: Ontario Drinking Water Standard - Non Health Related (Aesthetic Objective)

mg/L: milligrams per litre, parts permillion (ppm)



Organics Test Results

Reading	Units	ODWS	21/01/2008	09/04/2008	16/07/2008	06/10/2008
(DDT) + Metabolites	mg/L	0.03	MAC	< 0.000008		
1,1-dichloroethylene (vinylidene chloride)	mg/L	0.014	MAC	< 0.0003	< 0.0003	< 0.0003
1,2-(o-dcb) Dichlorobenzene	mg/L	0.2	MAC	< 0.0001	< 0.0001	< 0.0001
1,2-Dichloroethane	mg/L	0.005	IMAC	< 0.0001	< 0.0001	< 0.0001
1,4-(p-dcb) Dichlorobenzene	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001
2,3,4,6-Tetrachlorophenol	mg/L	0.1	MAC	< 0.0005		
2,4,5-trichlorophenoxyacetic acid (2,4,5-T)	mg/L	0.28	MAC	< 0.0005		
2,4,6-Trichlorophenol	mg/L	0.005	MAC	< 0.0005		
2,4-Dichlorophenol	mg/L	0.9	MAC	< 0.0004		
2,4-dichlorophenoxyacetic acid (2,4-D)	mg/L	0.1	IMAC	< 0.0008		
Alachlor	mg/L	0.005	IMAC	< 0.0004		
Aldicarb	mg/L	0.009	MAC	< 0.0035		
Aldrin + Dieldrin	mg/L	0.0007	MAC	< 0.000006		
Atrazine + N-dealkylated metabolites	mg/L	0.005	IMAC	< 0.0002		
Azinphos-methyl	mg/L	0.02	MAC	< 0.0003		
Bendiocarb	mg/L	0.04	MAC	< 0.003		
Benzene	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001
Benzo(a)pyrene	mg/L	0.00001	MAC	< 0.00001		
Bromoxynil	mg/L	0.005	IMAC	< 0.0004		
Carbaryl	mg/L	0.09	MAC	< 0.0002		
Carbofuran	mg/L	0.09	MAC	< 0.004		
Carbon Tetrachloride	mg/L	0.005	MAC	< 0.0002	< 0.0002	< 0.0002
Chlordane (Total)	mg/L	0.007	MAC	< 0.000006		
Chlorpyrifos	mg/L	0.09	MAC	< 0.0002		
Cyanazine	mg/L	0.01	IMAC	< 0.0003		
Diazinon	mg/L	0.02	MAC	< 0.0002		
Dicamba	mg/L	0.12	MAC	< 0.0004		
Dichloromethane	mg/L	0.05	MAC	< 0.0005	< 0.0005	< 0.0005
Diclofop-methyl	mg/L	0.009	MAC	< 0.0004		
Dimethoate	mg/L	0.02	IMAC	< 0.0003		
Dinoseb	mg/L	0.01	MAC	< 0.0005		
Diquat	mg/L	0.07	MAC	< 0.0001		
Diuron	mg/L	0.15	MAC	< 0.0002		
Glyphosate	mg/L	0.28	IMAC	< 0.002		
Heptachlor + Heptachlor Epoxide	mg/L	0.003	MAC	< 0.000008		
Lindane	mg/L	0.004	MAC	< 0.000005		
Malathion	mg/L	0.19	MAC	< 0.0002		
Methoxychlor	mg/L	0.9	MAC	< 0.000009		
Metolachlor	mg/L	0.05	IMAC	< 0.0002		
Metribuzin	mg/L	0.08	MAC	< 0.0003		
Monochlorobenzene	mg/L	0.08	MAC	< 0.0001	< 0.0001	< 0.0001
Paraquat	mg/L	0.01	IMAC	< 0.0001		
Parathion	mg/L	0.05	MAC	< 0.0002		



Organics Test Results

Reading	Units	ODWS		21/01/2008	09/04/2008	16/07/2008	06/10/2008
Pentachlorophenol	mg/L	0.06	MAC		< 0.0004		
Phorate	mg/L	0.002	IMAC		< 0.0002		
Picloram	mg/L	0.19	IMAC		< 0.0007		
Polychlorinated Biphenyls (PCBs)	mg/L	0.003	IMAC		< 0.00002		
Prometryne	mg/L	0.001	IMAC		< 0.0002		
Simazine	mg/L	0.01	IMAC		< 0.0002		
Temephos	mg/L	0.28	IMAC		< 0.003		
Terbufos	mg/L	0.001	IMAC		< 0.0002		
Tetrachloroethylene (perchloroethylene)	mg/L	0.03	MAC	< 0.0003	< 0.0003	< 0.0003	< 0.0003
Triallate	mg/L	0.23	MAC		< 0.002		
Trichloroethene	mg/L	0.005	MAC	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Trifluralin	mg/L	0.045	IMAC		< 0.000006		
Vinyl Chloride	mg/L	0.002	MAC	< 0.0002	< 0.0002	< 0.0002	< 0.0002

"<": indicates the result is below Method Detection Limit

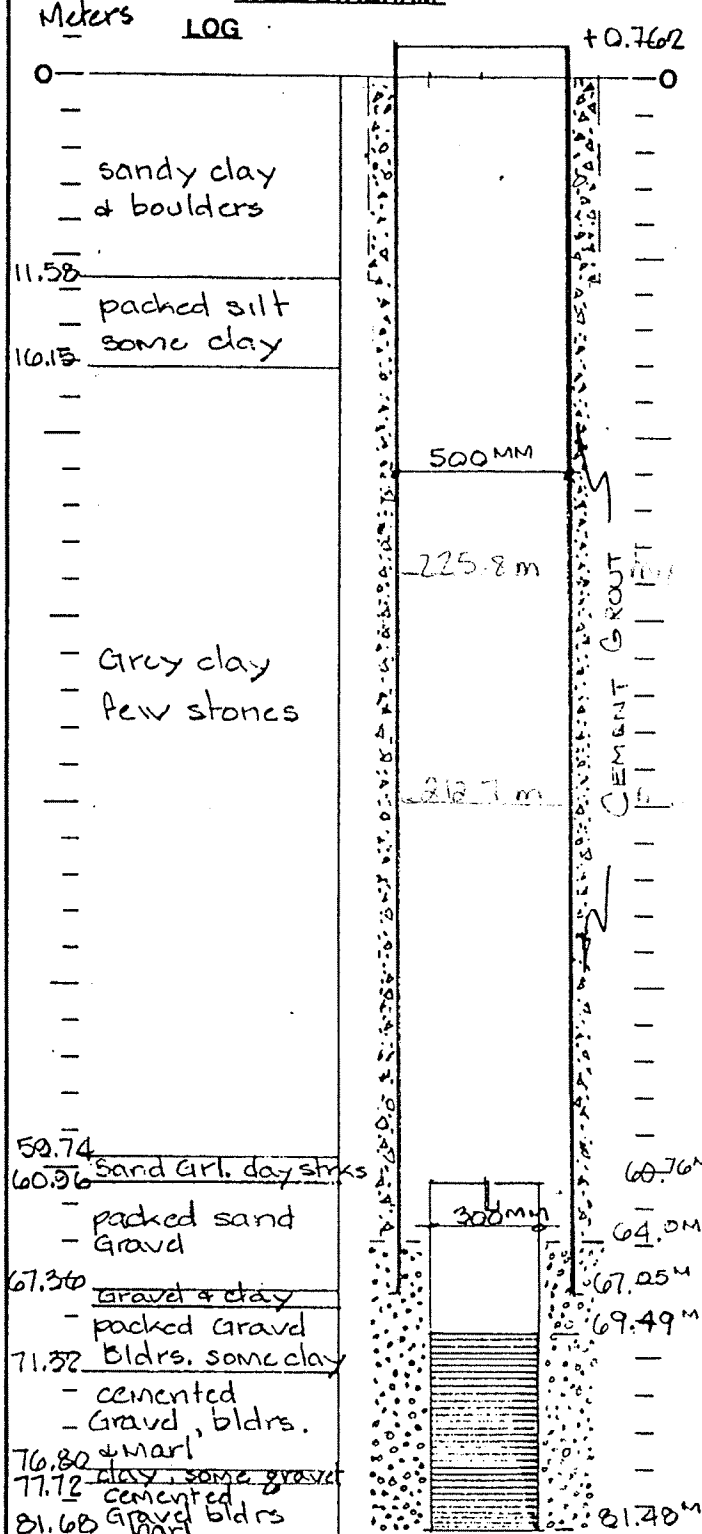
ODWS: Ontario Drinking Water Standard

MAC: Ontario Drinking Water Standard - Health Related (Maximum Acceptable Concentration)

AO: Ontario Drinking Water Standard - Non Health Related (Aesthetic Objective)

mg/L: milligrams per litre, parts permillion (ppm)

Meters LOG



Outer Casing: 500^{MM} dia., 2^{MM} Wall Thk. Matl.: steel
Cemented from 0 ' to 64 '
Inner Casing: 300^{MM} dia., 9^{MM} Wall Thk. Matl.: steel
Screen: Make Johnson " dia., Opening & Matl.: 50 slot ss
Plug: Type plate 300 ps, Matl. st. steel Other: _____
Gravel: Type silica, Size 1/8 x 10, Quantity 10 tons

Preliminary Test Date: _____ by _____
 Static Level: _____' _____" below M.P. _____
 Pumping Rate IGM: _____
 Pumping Duration: _____ hrs. _____ min.
 Pumping Level at Test End: _____' _____"
 Performance Plots: dd-t Dwg. _____
 dd-r Dwg. _____
 Step Test _____

Final Test: Date _____ by _____
 Rated Well Capacity IGM _____
 Pumping Rate IGM _____ Static level _____' _____"
 Pumping level _____' _____" at _____ hrs. _____ min.
 Pump pressure: _____ psi; Main pressure _____ psi
 Shut off: AGH _____ psi; W.L. _____' _____"
 Clear Well Depth from B.P. _____' _____" Air Line 190' 0"

Pump Make: LAINE Rating 1000 GPM @ 500' TH
Head: Type SDH 1018 S.N. 114914
Column: 190' X 10" X 2 1/2"; Shaft Mtl: CS
Bowl: 15DHC Stage 5; Curve: 18-121
Suction: NIL " dia. _____ " Long
Special: Zinc Sleeves _____; Taped Oil Line _____
Other _____

Motor Make: USEM Frame: 445TP SN: 66506840
200HP, 3 ph, 60 hz, 1775 rpm, 575 Volts
 Bearing No. Upper _____
 Lower _____

Special Equipment

RUE MOTOR WITH THERMISTORS

[illegible]

International Water Supply Limited

SASKATOON - BARRIE - MONTREAL

CLIENT: REGION of YORK

WELL NO: 5476011 H 1

GREENSBURG

DRILLED BY: W. Nobles

DATE: 8/91

DRAWN: J. Vall

INSTALLED BY:

DATE:

DATE: Aug. '91



Ministry
of the
Environment

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED

2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11

6922338

MUNICIPALITY

69003

CON

103

COUNTY OR DISTRICT York	TOWNSHIP BOROUGH CITY TOWN VILLAGE East Gwillimbury	CON. BLOCK TRACT SURVEY ETC 111	LOT 2
OWNER (SURNAME FIRST) Region of York	ADDRESS P.O. Box 206 Newmarket.	DATE COMPLETED DAY 8 MO 91	
21			

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
	clay	sandy & boulders		0	38
	silt	some clay	packed	38	53
gray	clay	few stones		53	196
	Sand, Gravel	clay streaks		196	200
	sand gravel		packed	200	221
	gravel	clay		221	223
	gravel	blcks some clay	packed	223	224
	gravel	blcks marl	cemented	224	252
	clay	some gravel		252	255
	clay gravel	clay blcks marl	cemented	255	268

31	32
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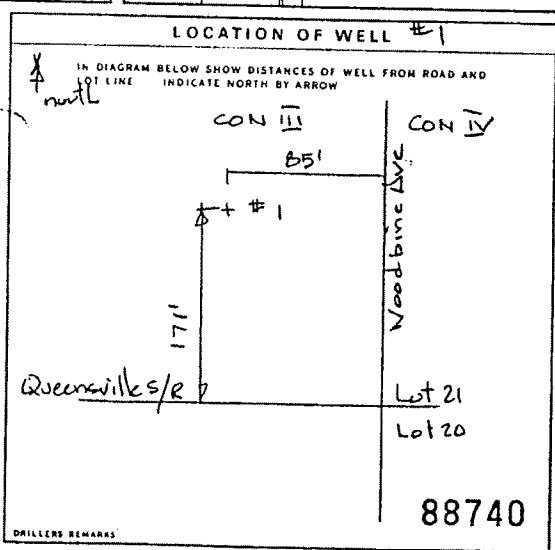
41 WATER RECORD			
WATER FOUND AT - FEET	KIND OF WATER	10-15	15-20
200	<input checked="" type="checkbox"/> FRESH <input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERALS <input type="checkbox"/> GAS	
10-15	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERALS <input type="checkbox"/> GAS	
20-25	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERALS <input type="checkbox"/> GAS	
25-30	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERALS <input type="checkbox"/> GAS	
30-35	<input type="checkbox"/> FRESH <input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR <input type="checkbox"/> MINERALS <input type="checkbox"/> GAS	

51 CASING & OPEN HOLE RECORD			
INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH FEET
10-15	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC		10-15
20"		.375	42 220
12"		.375	200 267
20-25	<input type="checkbox"/> STEEL <input type="checkbox"/> GALVANIZED <input type="checkbox"/> CONCRETE <input type="checkbox"/> OPEN HOLE <input type="checkbox"/> PLASTIC		20-25

SCREEN	SIZE(S) OF OPENING (SLOT NO.) 50 slot	DIAMETER 12	LENGTH 40
	MATERIAL AND TYPE chain st. wire wrap	DEPTH TO TOP OF SCREEN 228	

61 PLUGGING & SEALING RECORD			
DEPTH SET AT FEET	TO	MATERIAL AND TYPE	CEMENT GROUT LEAD PACKER ETC.
268	210	silica gravel.	
210	0	cement grout.	

71 PUMPING TEST	
PUMPING TEST METHOD <input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BAILEY	PUMPING RATE 1050 GPM
STATIC LEVEL 99.71 FEET	WATER LEVEL END OF PUMPING 124.9 FEET
15-20 MINUTES 105.8 FEET	30 MINUTES 110.6 FEET
45 MINUTES 111.0 FEET	60 MINUTES 112.8 FEET
RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING 43-45 FEET

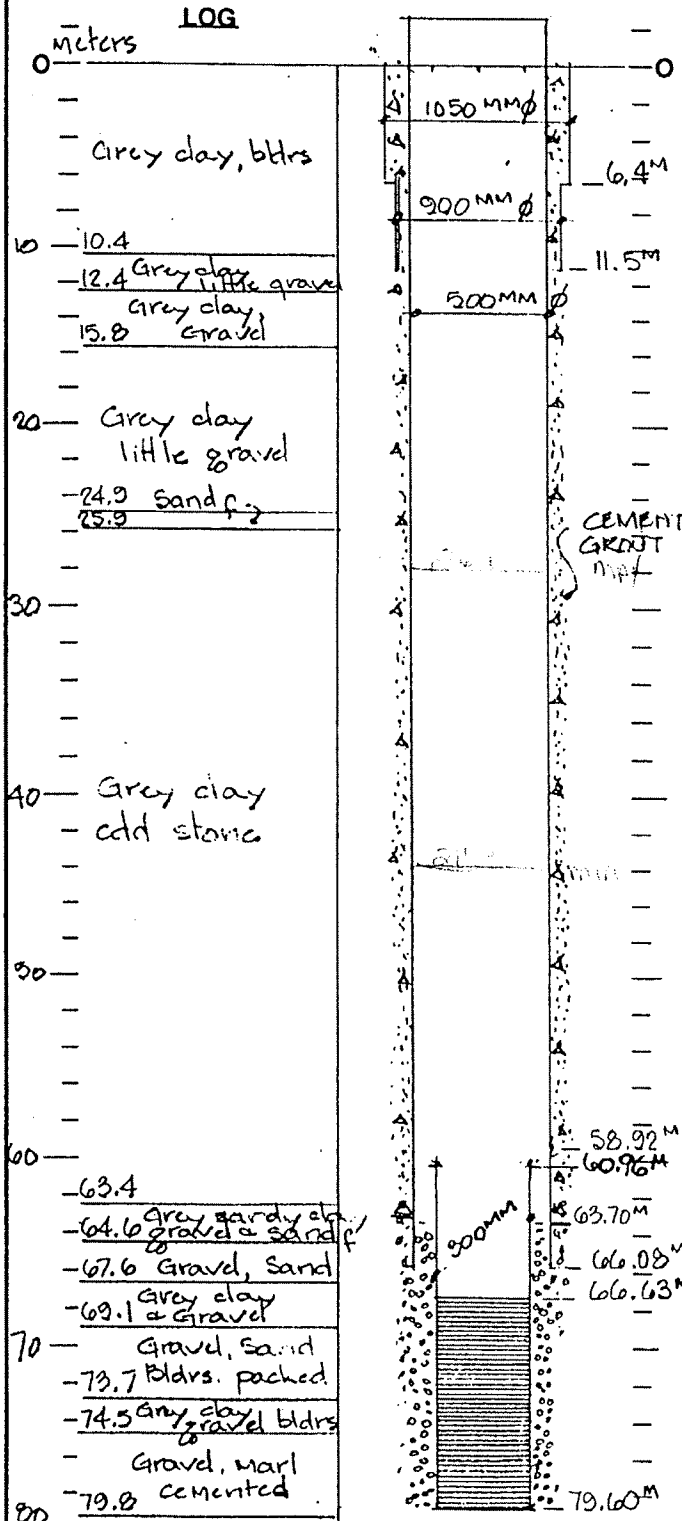


FINAL STATUS OF WELL	
<input type="checkbox"/> WATER SUPPLY	<input type="checkbox"/> ABANDONED INSUFFICIENT SUPPLY
<input type="checkbox"/> OBSERVATION WELL	<input type="checkbox"/> ABANDONED POOR QUALITY
<input type="checkbox"/> TEST HOLE	<input type="checkbox"/> UNFINISHED
<input type="checkbox"/> RECHARGE WELL	<input type="checkbox"/> DEWATERING
WATER USE	
<input type="checkbox"/> DOMESTIC	<input type="checkbox"/> COMMERCIAL
<input type="checkbox"/> STOCK	<input type="checkbox"/> MUNICIPAL
<input type="checkbox"/> IRRIGATION	<input type="checkbox"/> PUBLIC SUPPLY
<input type="checkbox"/> INDUSTRIAL	<input type="checkbox"/> COOLING OR AIR CONDITIONING
<input type="checkbox"/> OTHER	<input type="checkbox"/> NOT USED
METHOD OF CONSTRUCTION	
<input type="checkbox"/> CABLE TOOL	<input type="checkbox"/> BORING
<input type="checkbox"/> ROTARY (CONVENTIONAL)	<input type="checkbox"/> DIAMOND
<input type="checkbox"/> ROTARY (REVERSE)	<input type="checkbox"/> JETTING
<input type="checkbox"/> ROTARY (AIR)	<input type="checkbox"/> DRIVING
<input type="checkbox"/> AIR PERCUSSION	<input type="checkbox"/> DIGGING <input type="checkbox"/> OTHER

NAME OF WELL CONTRACTOR International Water Supply	WELL CONTRACTOR'S LICENCE NUMBER 2801
ADDRESS P.O. Box 310 Barrie	
NAME OF WELL TECHNICIAN Walter Nobles	WELL TECHNICIAN'S LICENCE NUMBER 1-0115
SIGNATURE OF TECHNICIAN/CONTRACTOR W. Nobles	SUBMISSION DATE DAY 26 MO 08 YEAR 93

DATE OF INSPECTION 2801	DATE RECEIVED SEP 01 1993
INSPECTOR	
REMARKS	

WELL DIAGRAM



WELL MATERIAL

Outer Casing: 500 mm dia., 9 mm Wall Thk. Matl.: steel
 Cemented from 0 " to 66.08 m "
 Inner Casing: 300 mm dia., 9 mm Wall Thk. Matl.: steel
 Screen: Make Johnson 300 mm dia., Opening & Matl.: 50 slot st. st.
 Plug: Type plate Matl. st. steel Other: _____
 Gravel: Type silica Size 1/8 x 10 Quantity _____

WELL TEST DATA

Preliminary Test Date: _____ by _____
 Static Level: _____ " below M.P. _____
 Pumping Rate IGM: _____
 Pumping Duration: _____ hrs. _____ min.
 Pumping Level at Test End: _____ "
 Performance Plots: dd-t Dwg. _____
 dd-r Dwg. _____
 Step Test _____

Final Test: Date _____ by _____
 Rated Well Capacity IGM _____
 Pumping Rate IGM _____ Static level _____ "
 Pumping level _____ " at _____ hrs. _____ min.
 Pump pressure: _____ psi: Main pressure _____ psi
 Shut off: AGH _____ psi: W.L. _____ "
 Clear Well Depth from B.P. _____ " Air Line 190 "

PUMP & MOTOR DATA

Pump Make LAYNE Rating 1000 IGM @ 500 TH
 Head: Type SDH 1018 S.N. 114255
 Column: 190 " X 10 " X 2 1/2 " Shaft Mtl: C.S.
 Bowl: ISDRLC Stage 5 1/2 Curve: 12-121
 Suction: NIL " dia. _____ " Long
 Special: Zinc Sleeves _____: Taped Oil Line _____

Other _____
 Motor Make USEM Frame: 445TP S.N. 667159 W07
200 HP, 3 ph, 60 hz, 1775 rpm, 575 Volts
 Bearing No. Upper _____
 Lower _____

Special Equipment

RUE MOTOR WITH THERMISTORS

WELL REVISIONS AND REHABILITATION

DATE	WORK DONE	BY

International Water Supply Limited

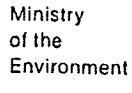
SASKATOON - BARRIE - MONTREAL

CLIENT: YORK SHARON-QUEENSVILLE

WELL NO: 2

DRILLED BY: J. Augustine DATE: May 90 DRAWN: J. Wall

INSTALLED BY: _____ DATE: _____ DATE: May '90



WATER WELL RECORD

MUNICIP 69003 CON. CON 03

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)					
GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
grey	clay	bldrs		0	35
grey	clay	little gravel		35	41
grey	clay	gravel		41	52
grey	clay	little gravel		52	82
	sandp			82	85
grey	clay	old stone		85	208
grey	clay	sandy, gravel, sandp		208	212
	gravel	sand		212	222
	clay	gravel		222	227
	gravel	sand, bldrs packed		227	242
grey	clay	gravel & bldrs		242	245
	gravel	hard	cemented.	245	261

41	WATER RECORD	51	CASING & OPEN HOLE RECORD	61	PLUGGING & SEALING RECORD																																																								
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">WATER FOUND AT - FEET</th> <th style="width: 50%;">KIND OF WATER</th> </tr> <tr> <td style="vertical-align: top;"> 00-15 1 FRESH 2 SALTY </td> <td style="vertical-align: top;"> 3 SULPHUR 4 MINERALS 5 GAS </td> </tr> <tr> <td style="vertical-align: top;"> 15-18 1 FRESH 2 SALTY </td> <td style="vertical-align: top;"> 3 SULPHUR 4 MINERALS 5 GAS </td> </tr> <tr> <td style="vertical-align: top;"> 20-22 1 FRESH 2 SALTY </td> <td style="vertical-align: top;"> 3 SULPHUR 4 MINERALS 5 GAS </td> </tr> <tr> <td style="vertical-align: top;"> 23-26 1 FRESH 2 SALTY </td> <td style="vertical-align: top;"> 3 SULPHUR 4 MINERALS 5 GAS </td> </tr> <tr> <td style="vertical-align: top;"> 30-33 1 FRESH 2 SALTY </td> <td style="vertical-align: top;"> 3 SULPHUR 4 MINERALS 5 GAS </td> </tr> </table>	WATER FOUND AT - FEET	KIND OF WATER	00-15 1 FRESH 2 SALTY	3 SULPHUR 4 MINERALS 5 GAS	15-18 1 FRESH 2 SALTY	3 SULPHUR 4 MINERALS 5 GAS	20-22 1 FRESH 2 SALTY	3 SULPHUR 4 MINERALS 5 GAS	23-26 1 FRESH 2 SALTY	3 SULPHUR 4 MINERALS 5 GAS	30-33 1 FRESH 2 SALTY	3 SULPHUR 4 MINERALS 5 GAS	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">INSIDE DIA. INCHES</th> <th style="width: 20%;">MATERIAL</th> <th style="width: 10%;">WELL THICKNESS INCHES</th> <th style="width: 20%;">DEPTH - FEET</th> <th style="width: 30%;">SCREEN</th> </tr> <tr> <td style="vertical-align: top;"> 10-11 20" </td> <td style="vertical-align: top;"> 1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC </td> <td style="vertical-align: top;"> .375 </td> <td style="vertical-align: top;"> + 3 217 </td> <td style="vertical-align: top;"> 19-26 20 slot MATERIAL AND TYPE stainless steel </td> </tr> <tr> <td style="vertical-align: top;"> 17-18 12 </td> <td style="vertical-align: top;"> 1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC </td> <td style="vertical-align: top;"> .375 </td> <td style="vertical-align: top;"> 193' 225 </td> <td style="vertical-align: top;"> 26-33 20 slot MATERIAL AND TYPE stainless steel </td> </tr> <tr> <td style="vertical-align: top;"> 24-25 12 </td> <td style="vertical-align: top;"> 1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC </td> <td style="vertical-align: top;"> .375 </td> <td style="vertical-align: top;"> 193' 225 </td> <td style="vertical-align: top;"> 27-30 20 slot MATERIAL AND TYPE stainless steel </td> </tr> </table>	INSIDE DIA. INCHES	MATERIAL	WELL THICKNESS INCHES	DEPTH - FEET	SCREEN	10-11 20"	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC	.375	+ 3 217	19-26 20 slot MATERIAL AND TYPE stainless steel	17-18 12	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC	.375	193' 225	26-33 20 slot MATERIAL AND TYPE stainless steel	24-25 12	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC	.375	193' 225	27-30 20 slot MATERIAL AND TYPE stainless steel	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%;">SIZE - IN. OF OPENING (SLOT NO. 1)</th> <th style="width: 10%;">DIAMETER</th> <th style="width: 10%;">DEPTH TO TOP OF SCREEN</th> <th style="width: 10%;">LENGTH</th> <th style="width: 10%;">SPACING</th> </tr> <tr> <td style="vertical-align: top;"> 20 slot MATERIAL AND TYPE stainless steel </td> <td style="vertical-align: top;"> 12 INCHES </td> <td style="vertical-align: top;"> 225 FEET </td> <td style="vertical-align: top;"> 36 FEET </td> <td style="vertical-align: top;"> 30-33 </td> </tr> </table>	SIZE - IN. OF OPENING (SLOT NO. 1)	DIAMETER	DEPTH TO TOP OF SCREEN	LENGTH	SPACING	20 slot MATERIAL AND TYPE stainless steel	12 INCHES	225 FEET	36 FEET	30-33	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 30%;">ULPH SET AT - FEET</th> <th style="width: 10%;">MATERIAL AND TYPE</th> <th style="width: 10%;">CEMENT GROUT</th> <th style="width: 10%;">LEAD PACER ETC.</th> </tr> <tr> <td style="vertical-align: top;"> 10-11 201 </td> <td style="vertical-align: top;"> 209 </td> <td style="vertical-align: top;"> silica gravel. </td> <td style="vertical-align: top;"> 24-25 </td> </tr> <tr> <td style="vertical-align: top;"> 16-21 216 </td> <td style="vertical-align: top;"> 0 </td> <td style="vertical-align: top;"> Cement grout. </td> <td style="vertical-align: top;"> 27-28 </td> </tr> <tr> <td style="vertical-align: top;"> 24-29 216 </td> <td style="vertical-align: top;"> 0 </td> <td style="vertical-align: top;"> Cement grout. </td> <td style="vertical-align: top;"> 30-31 </td> </tr> </table>	ULPH SET AT - FEET	MATERIAL AND TYPE	CEMENT GROUT	LEAD PACER ETC.	10-11 201	209	silica gravel.	24-25	16-21 216	0	Cement grout.	27-28	24-29 216	0	Cement grout.	30-31
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PUMPING TEST	PUMPING TEST METHOD		10	PUMPING RATE		11-12	DURATION OF PUMPING	
	<input type="checkbox"/> PUMP <input type="checkbox"/> BAILER				CPM		13-16 HOURS	17-18 MIN.
	STATIC LEVEL		WATER LEVEL END OF PUMPING		WATER LEVELS DURING		<input type="checkbox"/> PUMPING <input type="checkbox"/> RECOVERY	
	19-21	22-24	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES		
	FEET	FEET	FEET	FEET	FEET	FEET		
IF FLOWING, GIVE RATE		25-27	PUMP INTAKE SET AT		WATER AT END OF TEST		68	
CPM				FEET		<input type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY		
RECOMMENDED PUMP TYPE		RECOMMENDED PUMP SETTING		63-65	RECOMMENDED PUMPING RATE		66-69	
<input type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP				FEET				

FINAL STATUS OF WELL	1 <input type="checkbox"/> WATER SUPPLY 2 <input type="checkbox"/> OBSERVATION WELL 3 <input type="checkbox"/> TEST HOLE 4 <input type="checkbox"/> RECHARGE WELL	8 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY 9 <input type="checkbox"/> ABANDONED, POOR QUALITY 7 <input type="checkbox"/> UNFINISHED 6 <input type="checkbox"/> DEWATERING
	11-14	
WATER USE	1 <input type="checkbox"/> DOMESTIC 2 <input type="checkbox"/> STOCK 3 <input type="checkbox"/> IRRIGATION 4 <input type="checkbox"/> INDUSTRIAL <input type="checkbox"/> OTHER	5 <input type="checkbox"/> COMMERCIAL 6 <input checked="" type="checkbox"/> MUNICIPAL 7 <input type="checkbox"/> PUBLIC SUPPLY 8 <input type="checkbox"/> COOLING OR AIR CONDITIONING <input type="checkbox"/> NOT USED
	15-24	
METHOD OF CONSTRUCTION	1 <input type="checkbox"/> CABLE TOOL 2 <input type="checkbox"/> ROTARY (CONVENTIONAL) 3 <input type="checkbox"/> ROTARY (REVERSE) 4 <input type="checkbox"/> ROTARY (AIR) 5 <input type="checkbox"/> AIR PERCUSSION	6 <input type="checkbox"/> BORING 7 <input type="checkbox"/> DIAMOND A <input type="checkbox"/> JETTING 9 <input type="checkbox"/> DRIVING <input type="checkbox"/> DIGGING <input type="checkbox"/> OTHER
	25-34	

LOCATION OF WELL 2

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW

North

CON III

CON IV

831

Well No. 2

76'

Woodbine Ave.

Lot 21

Lot 20

Queensville S/R

88675

DRILLER'S REMARKS

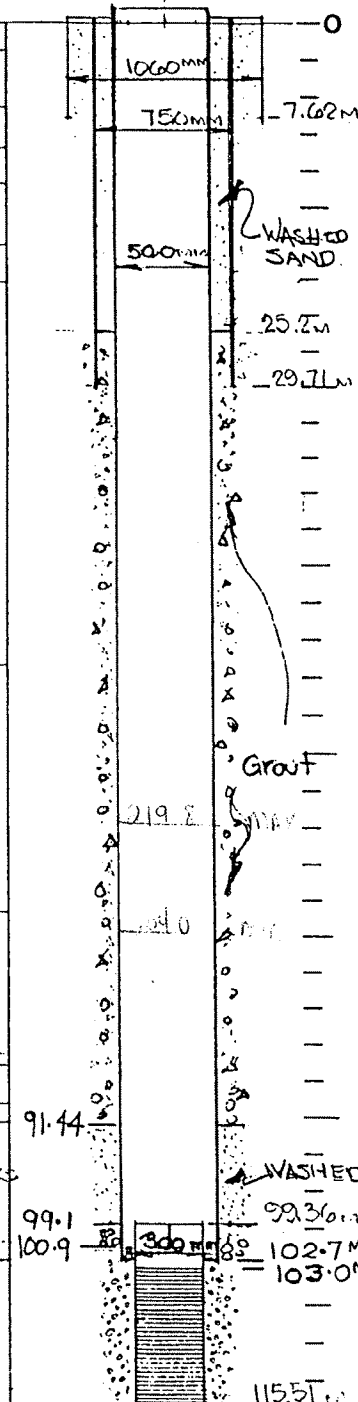
CONTRACTOR	NAME OF WELL CONTRACTOR		WELL CONTRACTOR'S LICENCE NUMBER	
	International Water Supply		2801	
	ADDRESS			
	P.O. Box 310 Bonnie			
	NAME OF WELL TECHNICIAN		WELL TECHNICIAN'S LICENCE NUMBER	
	Augustine			
	SIGNATURE OF TECHNICIAN/CONTRACTOR		SUBMISSION DATE	
	[Signature]		JUL 23 1981	

OFFICE USE ONLY	DATE SOURCE	1A	CONTRACTOR	5A-62	DATE RECEIVED	62-68	60
	2801		APR 14 1992				
	DATE OF INSPECTION		INSPECTOR				
	REMARKS						

WELL DIAGRAM

LOG

0
2.4 brown clay
7.6 Sand f.m
10.6 Gravel clay sand
13.4 Sand & little gravel
19.8 Sand & silt hard.
21.2 sandy clay
23.4
Grey clay
soft
25.4
Grey clay hard
29.1
sticky clay
grey
35.9 Gravel & clay
36.5 Sand & gravel
38.3 Sand & gravel
40.2 Sand & gravel
42.1 sand clay marl
43.7 Packed sand
47.0 gravel bldrs.
53.28
55.51 gravel f.c.



WELL MATERIAL

Outer Casing: 500mm dia., 375 mm Wall Thk. Matl.: steel
Cemented from 25.2m to 21.44m
Inner Casing: 300mm dia., 9.5mm Wall Thk. Matl.: steel
Screen: Make JOHN 300mm dia., Opening & Matl.: 50 slot
Plug: Type plate, Matl. st. steel, Other:
Gravel: Type silica, Size 1/8 x 10, Quantity 14 ton

WELL TEST DATA

Preliminary Test Date: April 8, 1990 by J.A.
Static Level: 51.30 m below M.P. + 0.76 m
Pumping Rate IGM: 79.5 l/sec
Pumping Duration: 48 hrs. 0 min.
Pumping Level at Test End: 61.7 m
Performance Plots: dd-t Dwg. A90099
dd-r Dwg. A30103
Step Test A90102

Final Test: Date April 8, 1990 by J.A.
Rated Well Capacity IGM 1000
Pumping Rate IGM 1000 Static level 53.8 TH
Pumping level 53.8 TH at 48 hrs. 0 min.
Pump pressure: 200 psi Main pressure 194.91 psi
Shut off: AGH psi W.L. 194.91 (14.4 m)
Clear Well Depth from B.P. 378' 9" Air Line 300'

PUMP & MOTOR DATA

Pump Make LAYNE Rating 1000 IGM @ 53.8 TH
Head: Type SDH 1018 S.N. 111633
Column: 300 X 10 X 2 1/2 Shaft Mt. 11/2 CS.
Bowl: 15DRLC Stage 6 Curve: 18121
Suction: 10 dia. 10 0 Long
Special: Zinc Sleeves Taped Oil Line
Other
Motor Make USEM Frame 445TP SN: 48281
200 HP, 3 ph, 60 Hz, 1800 rpm, 575 Volts
Bearing No. Upper
Lower

Special Equipment

WELL REVISIONS AND REHABILITATION

DATE	WORK DONE	BY

International Water Supply Limited

SASKATOON - BARRIE - MONTREAL

CLIENT: REGION of YORK

WELL NO: SHADON - #3

QUEBEC

DRILLED BY: J. Augustine DATE: Apr 90 DRAWN: J. Wall

INSTALLED BY: DATE: DATE: Apr. 90



6922299

MUNICIP 69603 CON. CON 03

1. PRINT ONLY IN SPACES PROVIDED
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11

SHEET 1 OF 2

MEMORANDUM

CON.

#1 of 2

102

COUNTY OR DISTRICT York	TOWNSHIP, BOROUGH CITY TOWN VILLAGE East Gwinnbury	CON. BLOCK, TRACT, SURVEY, ETC. II	LOT 16
OWNER (SURNAME FIRST) Region of York	ADDRESS Box 206 Newmarket	DATE COMPLETED DAY 17 MO 3 YEAR 90	
<div> <div>21</div> <div> <div>ONE</div> <div>EASTING</div> <div>NORTHING</div> <div>AC</div> <div>ELEVATION</div> <div>BC</div> <div>BASEIN CODE</div> </div> </div>			

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
brown	clay			0	8
	Sand m. f.			8	25
	Gravel	clay sand		25	35
	Sand	little gravel		35	44
	Sand	silt		44	65
	clay	sandy		65	72
gray	clay		soft	72	175
gray	clay		hard	175	240
gray	clay		sticky	240	282
	gravel	clay		282	285
	Sand	gravel		285	290
	Sand		hard	290	296

31 32

WATER RECORD

WATER FOUND AT FLEET		KIND OF WATER			
10-12	1	<input type="checkbox"/> FRESH	3	<input type="checkbox"/> SULPHUR	15
	2	<input type="checkbox"/> SALTY	6	<input type="checkbox"/> MINERALS GAS	
15-16	1	<input type="checkbox"/> FRESH	3	<input type="checkbox"/> SULPHUR	18
	2	<input type="checkbox"/> SALTY	6	<input type="checkbox"/> MINERALS GAS	
20-23	1	<input type="checkbox"/> FRESH	3	<input type="checkbox"/> SULPHUR	24
	2	<input type="checkbox"/> SALTY	6	<input type="checkbox"/> MINERALS GAS	
25-27	1	<input type="checkbox"/> FRESH	3	<input type="checkbox"/> SULPHUR	18
	2	<input type="checkbox"/> SALTY	6	<input type="checkbox"/> MINERALS GAS	
30-33	1	<input type="checkbox"/> FRESH	3	<input type="checkbox"/> SULPHUR	35
	2	<input type="checkbox"/> SALTY	6	<input type="checkbox"/> MINERALS GAS	

CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES		MATERIAL	WELL FACTORY MARKS INCHES	DEPTH - FEET	
				INCHES	10'
10-11	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC	13		13-14	
42"			.375	0	25
17-18	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC	19		20-21	
30"			.375	0	116
24-25		16		27-28	
20"	1 STEEL 2 GALVANIZED 3 CONCRETE 4 OPEN HOLE 5 PLASTIC		.375	+2	357
12-13			.375	326	338

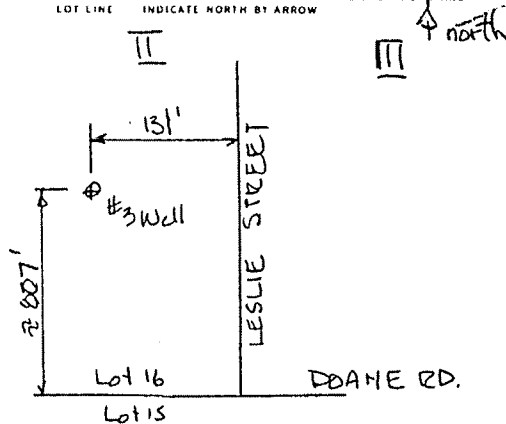
PLUGGING & SEALING RECORD

DIPLOM SET AT 1001		MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)
INUM	IO	
10-13	16-13	Silica gravel Washed sand Grout
370	325	
16-21	22-24	
325	200	
11-16	20-26	Grout
200	116	

PUMPING TEST	PUMPING TEST METHOD		PUMPING RATE		DURATION OF PUMPING	
	<input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BAILER		350.700, 1060 <small>CPM</small>		step test 2hr each <small>HOURS</small>	
	STATIC LEVEL		WATER LEVEL DURING		PUMPING	
	FEET		FEET		RECOVERY	
	168 <small>FEET</small>		202 <small>FEET</small>		183 <small>FEET</small>	
IF FLOWING, GIVE RATE		PUMP INTAKE SET AT		WATER AT END OF TEST		
GPM		FEET		<input type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY		
RECOMMENDED PUMP TYPE		RECOMMENDED PUMP SETTING		RECOMMENDED PUMPING RATE		
<input type="checkbox"/> SHALLOW <input type="checkbox"/> DEEP		FEET		GPM		

LOCATION OF WELL #3

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW



123275

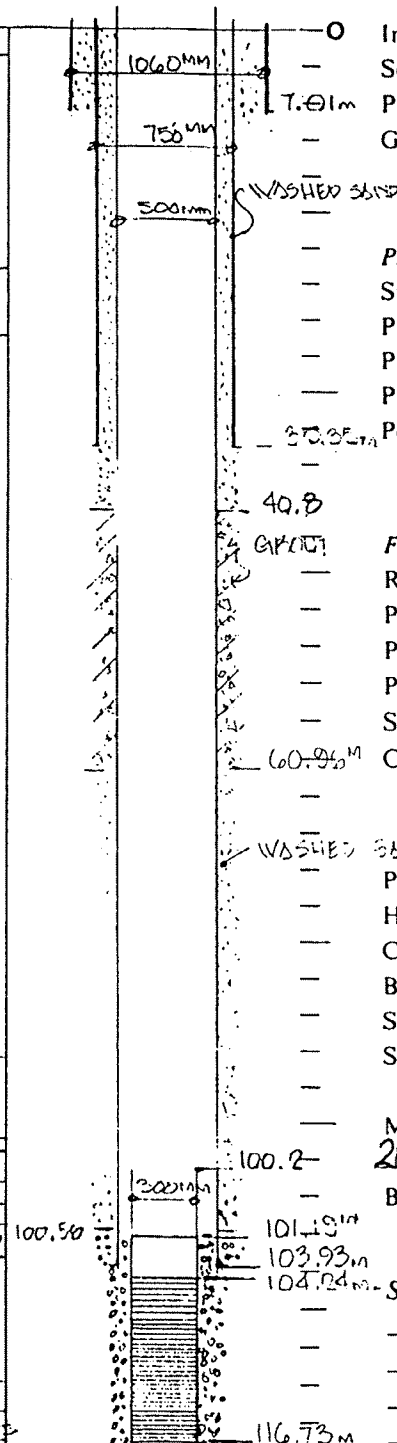
FINAL STATUS OF WELL	<input checked="" type="checkbox"/> 1 WATER SUPPLY <input type="checkbox"/> 2 OBSERVATION WELL <input type="checkbox"/> 3 TEST HOLE <input type="checkbox"/> 4 RECHARGE WELL	<input type="checkbox"/> 5 ABANDONED INSUFFICIENT SUPPLY <input type="checkbox"/> 6 ABANDONED POOR QUALITY <input type="checkbox"/> 7 UNFINISHED <input type="checkbox"/> 8 DEWATERING
WATER USE	<input type="checkbox"/> 1 DOMESTIC <input type="checkbox"/> 2 STOCK <input type="checkbox"/> 3 IRRIGATION <input type="checkbox"/> 4 INDUSTRIAL <input type="checkbox"/> 5 OTHER	<input checked="" type="checkbox"/> 6 COMMERCIAL <input checked="" type="checkbox"/> 7 MUNICIPAL <input type="checkbox"/> 8 PUBLIC SUPPLY <input type="checkbox"/> 9 COOLING ON AIR CONDITIONING <input type="checkbox"/> 0 NOT USED
METHOD OF CONSTRUCTION	<input type="checkbox"/> 1 CABLE TOOL <input type="checkbox"/> 2 ROTARY (CONVENTIONAL) <input type="checkbox"/> 3 ROTARY (REVERSE) <input type="checkbox"/> 4 ROTARY (AIR) <input type="checkbox"/> 5 AIR PERCUSSION	<input type="checkbox"/> 6 BORING <input type="checkbox"/> 7 DIAMOND <input type="checkbox"/> 8 JETTING <input type="checkbox"/> 9 DRIVING <input type="checkbox"/> 0 DIGGING <input type="checkbox"/> OTHER

DRILLERS REMARKS		123275	
OFFICE USE ONLY	DATA SOURCE	15 CONTRACTOR	15-02 DATE RECEIVED
		2801	AUG 05 1993
	DATE OF INSPECTION	INSPECTOR	
REMARKS			

WELL DIAGRAM

LOG

2.7 brown clay
Sand f.m.
21.33 sand, silt
25.50 little clay
Gray clay
85.95 Gray clay
92.65 sand
92.96 sand & gravel
95.4 sand clay vari
97.3 Gravel sand, clay
98.7 silty clay gravel
103.62 Gravel sand clay
sand gravel
packed
111.25
115.21 sand gravel cem.
116.49 Gravel sand blk



WELL MATERIAL

Outer Casing: 500^m dia., 375^m Wall Thk. Matl.: steel
Cemented from 60.96^m to 35.35^m
Inner Casing: 300^m dia., Wall Thk. Matl.:
Screen: Make Johnson 300^m dia., Opening & Matl.: 30 slot st.
Plug: Type plate Matl. st. steel Other:
Gravel: Type silica Size 1/8 to 1/4 Quantity 9 ton

WELL TEST DATA

Preliminary Test Date: Mar 24, 1990 by JA.
Static Level: 50.576 m below M.P. 0.46 m
Pumping Rate IGM: 26.6, 53.2, 79.8 l/sec
Pumping Duration: 6 hours hrs. min.
Pumping Level at Test End: 57.46 m
Performance Plots: dd-t Dwg.
dd-r Dwg.
Step Test A 20107

Final Test: Date by
Rated Well Capacity IGM
Pumping Rate IGM Static level
Pumping level at hrs. min.
Pump pressure: psi Main pressure: psi
Shut off: AGH: psi W.L.:
Clear Well Depth from B.P.: Air Line:

PUMP & MOTOR DATA

Pump Make LAYNE Rating 1000 GM @ 538 TH
Head: Type SDH 1018 S.N. 11632
Column: 300 X 10 X 2 1/2 Shaft Mtl: 1 1/2 CS
Bowl: 15DR1C Stage 6 Curve: 18121
Suction: 10 dia. 10 - 0 Long
Special: Zinc Sleeves Taped Oil Line
Other
Motor Make USEM Frame: 445TP SN:
200 HP, 3 ph, 60 hz, 1800 rpm, 575 Volts
Bearing No. Upper
Lower

Special Equipment

WELL REVISIONS AND REHABILITATION

DATE	WORK DONE	BY

International Water Supply Limited

SASKATOON - BARRIE - MONTREAL

CLIENT: REGION of YORK

WELL NO: 3110 #4

DRILLED BY: J. Daoust DATE: Apr 90
INSTALLED BY: DATE: Apr 90

DRAWN: J. Wall
DATE: Apr 90

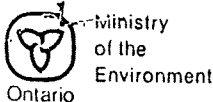
WATER WELL

6922300

MUNICIP

CON.

12014



The Ontario Water Resources Act

WATER WELL RECORD

6922300

MUNICIP

CON.

1992

1 PRINT ONLY IN SPACES PROVIDED

2 CHECK ☒ CORRECT BOX WHERE APPLICABLE

11

SHEET 1 OF 2

69003

CON.

COUNTY OR DISTRICT York	TOWNSHIP BOROUGH CITY TOWN VILLAGE East	CON. BLOCK TRACT SURVEY ETC.	LOT 16
OWNER (SURNAME FIRST) Region of York	ADDRESS Box 296 Newmarket	DATE COMPLETED DAY 8 MO 2 YR 20	
<p>21</p> <p>1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31</p>			

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
brown	clay			0	0
	Sand muf			0	70
	sand	silt little clay		70	85
gray	clay			85	280
gray	clay	sandp		280	282
	Sandp	Gravel		282	304
	sand	clay (marl) little gravel		304	305
	clay	silty		305	313
	Gravelp	sand little clay		313	320
	clay	silty little gravel		320	324
	Gravel	sand & clay		324	326
	clay	silty & sand		326	340

31

32

41 WATER RECORD	
WATER FOUND AT - FEET	KIND OF WATER
10-12	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
13-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
20-22	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
23-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERALS 6 <input type="checkbox"/> GAS

51 CASING & OPEN HOLE RECORD			
INSIDE DIA INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
42	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	.375	0 23
30	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	.375	0 116
20	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	.375	0 341
12	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	.375	328 342

60 SCREEN		
SIZE OF OPENING (SLOT NO.) 50 slot	DIAMETER 12	LENGTH 41
MATERIAL AND TYPE steel wirewrap		
DEPTH TO TOP OF SCREEN 342		

61 PLUGGING & SEALING RECORD			
DEPTH SET AS - FEET		MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)	
FROM	TO		
383-393	330-337	Gravel	
330-337	200-215	washed sand	
200-215	116	Grout	

71 PUMPING TEST	
PUMPING TEST METHOD 1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILEY	PUMPING RATE 350, 700, 1050
STATIC LEVEL 10-12	WATER LEVEL END OF PUMPING 22-24
15 MINUTES 20-28	30 MINUTES 20-31
45 MINUTES 22-34	60 MINUTES 23-37
IF FLOWING GIVE RATE 23-31	PUMP INTAKE SET AT 22
RECOMMENDED PUMP TYPE 1 <input type="checkbox"/> SHALLOW 2 <input type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING 23-31

LOCATION OF WELL #4	
IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LINE INDICATE NORTH BY ARROW	

FINAL STATUS OF WELL	
1 <input type="checkbox"/> WATER SUPPLY 2 <input type="checkbox"/> OBSERVATION WELL 3 <input type="checkbox"/> TEST HOLE 4 <input type="checkbox"/> RECHARGE WELL	5 <input type="checkbox"/> ABANDONED INSUFFICIENT SUPPLY 6 <input type="checkbox"/> ABANDONED POOR QUALITY 7 <input type="checkbox"/> UNFINISHED 8 <input type="checkbox"/> DEWATERING
WATER USE	
1 <input type="checkbox"/> DOMESTIC 2 <input type="checkbox"/> STOCK 3 <input type="checkbox"/> IRRIGATION 4 <input type="checkbox"/> INDUSTRIAL 5 <input type="checkbox"/> OTHER	6 <input type="checkbox"/> COMMERCIAL 7 <input type="checkbox"/> MUNICIPAL 8 <input type="checkbox"/> PUBLIC SUPPLY 9 <input type="checkbox"/> COOLING OR AIR CONDITIONING 10 <input type="checkbox"/> NOT USED
METHOD OF CONSTRUCTION	
1 <input type="checkbox"/> CABLE TOOL 2 <input type="checkbox"/> ROTARY (CONVENTIONAL) 3 <input type="checkbox"/> ROTARY (REVERSE) 4 <input type="checkbox"/> ROTARY (AIR) 5 <input type="checkbox"/> AIR PERCUSSION	6 <input type="checkbox"/> BORING 7 <input type="checkbox"/> DIAMOND 8 <input type="checkbox"/> SETTING 9 <input type="checkbox"/> DRIVING 10 <input type="checkbox"/> DIGGING 11 <input type="checkbox"/> OTHER

CONTRACTOR	
NAME OF WELL CONTRACTOR International Water Supply	WELL CONTRACTOR'S LICENSE NUMBER 2801
ADDRESS Box 310 Barrie	
NAME OF WELL TECHNICIAN J. Furushtine	WELL TECHNICIAN'S LICENSE NUMBER F-0424
SIGNATURE OF TECHNICIAN/CONTRACTOR	SUBMISSION DATE DAY 27 MO 7 YR 93

OFFICE USE ONLY	
DATA SOURCE 2801	DATE RECEIVED AUG 05 1993
DATE OF INSPECTION	INSPECTOR
REMARKS	

APPENDIX H

MOE REGIONAL WATER WELL RECORD SHEETS

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Well Computer Print Out Data as of July 29 2008

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Well Computer Print Out Data as of July 29 2008

Well Computer Print Out Data as of July 29 2008

PACT ORILLAMHURY TOW	17 621862	1265.51	62	PR 5547	0.08 /	0818	6450149 (1)
CON 021023	4080559	2310	UM 610	0.08 / 0.10	20	64	CLAY STNS 5040 MENS 5043
PACT ORILLAMHURY TOW	17 621862	1265.55	62	PR 5557	0.08 /	0852	6450150 (1)
CON 021024	4080564	2310	UM 610	0.08 / 0.10	20	64	CLAY STNS 5052 MENS 5056
PACT ORILLAMHURY TOW	17 621862	1265.74	20	PR 5516	0.14 /	20	6450151 (1)
CON 021023	4080565	4102	UM 610	0.14 / 0	20	64	CLAY STNS 5016 CMNS 5046
PACT ORILLAMHURY TOW	17 621864	1365.05	30	PR 5015	0.03 / 0	20	6450153 (1)
CON 021023	4080568	4102	UM 610	0.03 / 0	20	64	BLK CLAY 5014 CMNS 5042
PACT ORILLAMHURY TOW	17 621865	1365.04	30	PR 5043	0.43 / 0	20	6450154 (1)
CON 021025	4080611	4102	UM 610	0.43 / 0	20	64	BLK CLAY MENS 5040 CMNS 5050
PACT ORILLAMHURY TOW	17 621865	1364.64	62	PR 5044	0.40 /	20	6450155 (1)
CON 021025	4080611	2310	UM 610	0.40 / 1.10	20	64	5040 5053 CLAY MENS STNS 5010 FENS
PACT ORILLAMHURY TOW	17 621865	1366.70	10	PR 5026	0.05 /	20	6450156 (1)
CON 021025	4080742	3109	UM 610	0.02 / 0	20	64	5040 5052 CLAY 5025 CLAY MENS STNS
PACT ORILLAMHURY TOW	17 621865	1366.70	10	PR 5026	0.05 /	20	6450157 (1)
CON 021025	4080742	3109	UM 610	0.01 / 0	20	64	5040 5052 CLAY 5024 MENS 5052
PACT ORILLAMHURY TOW	17 621865	1366.75	30	PR 5045	0.04 /	20	6450159 (1)
CON 021025	4080845	3109	UM 610	0.04 / 0	20	64	5040 5055 CLAY 5024 MENS 5055
PACT ORILLAMHURY TOW	17 621865	1366.72	20	PR 5016	0.05 /	20	6450159 (1)
CON 021025	4080845	4102	UM 610	0.05 / 0	20	64	CLAY STNS 5037 CLAY MENS 5036 CMNS
PACT ORILLAMHURY TOW	17 621865	1369.07	06	UM 5185	0.10 / 3.08	20	6450160 (1)
CON 021026	4080791	1441	UM 610	0.10 / 16.10	20	64	5040 5055 CLAY 5045 CMNS 5045
PACT ORILLAMHURY TOW	17 621865	1369.07	06	UM 5185	0.10 / 3.08	20	6450161 (1)
CON 021026	4080791	1441	UM 610	0.10 / 16.10	20	64	5040 5055 CLAY 5045 CMNS 5045
PACT ORILLAMHURY TOW	17 621865	1369.07	06	UM 5185	0.10 / 3.08	20	6450162 (1)
CON 021026	4080791	1441	UM 610	0.10 / 16.10	20	64	5040 5055 CLAY 5045 CMNS 5045
PACT ORILLAMHURY TOW	17 621865	1369.07	06	UM 5185	0.10 / 3.08	20	6450163 (1)
CON 021026	4080791	1441	UM 610	0.10 / 16.10	20	64	5040 5055 CLAY 5045 CMNS 5045
PACT ORILLAMHURY TOW	17 621865	1369.07	06	UM 5185	0.10 / 3.08	20	6450164 (1)
CON 021026	4080791	1441	UM 610	0.10 / 16.10	20	64	5040 5055 CLAY 5045 CMNS 5045
PACT ORILLAMHURY TOW	17 621865	1369.07	06	UM 5185	0.10 / 3.08	20	6450165 (1)
CON 021026	4080791	1441	UM 610	0.10 / 16.10	20	64	5040 5055 CLAY 5045 CMNS 5045
PACT ORILLAMHURY TOW	17 621865	1369.07	06	UM 5185	0.10 / 3.08	20	6450166 (1)
CON 021026	4080791	1441	UM 610	0.10 / 16.10	20	64	5040 5055 CLAY 5045 CMNS 5045
PACT ORILLAMHURY TOW	17 621865	1369.07	06	UM 5185	0.10 / 3.08	20	6450167 (1)
CON 021026	4080791	1441	UM 610	0.10 / 16.10	20	64	5040 5055 CLAY 5045 CMNS 5045
PACT ORILLAMHURY TOW	17 621865	1369.07	06	UM 5185	0.10 / 3.08	20	6450168 (1)
CON 021026	4080791	1441	UM 610	0.10 / 16.10	20	64	5040 5055 CLAY 5045 CMNS 5045
PACT ORILLAMHURY TOW	17 621865	1369.07	06	UM 5185	0.10 / 3.08	20	6450169 (1)
CON 021026	4080791	1441	UM 610	0.10 / 16.10	20	64	5040 5055 CLAY 5045 CMNS 5045
PACT ORILLAMHURY TOW	17 621865	1369.07	06	UM 5185			

Well Computer Print Out Data as of July 29 2008

Well Computer Print Out Data as of July 29 2008

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CONCRETE										REINFORCING										FORMWORK										PAINTS										FLOORING										MECHANICAL										ELECTRICAL										PLUMBING										HVAC										FINISHES										GENERAL																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
ITEM	QTY	UNIT	PRICE	AMOUNT	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS	DATE	BY	REMARKS</

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WELL # (AUBURN) WELL TAG #										DEPTHS TO WHICH FORMATIONS EXTEND									
DATE 2 DATE 2 CASING										DATE 2 DATE 2 CASING									
CONTR # DIA 4										CONTR # DIA 4									
DETAILS DATE/TIME HP-MIN										DETAILS DATE/TIME HP-MIN									
WATER										WATER									
INCH										INCH									
TOWNSHIP										TOWNSHIP									
CONCESSION (LOT)										CONCESSION (LOT)									
EAST ONTARIO TOW										EAST ONTARIO TOW									
CON # (41002)										CON # (41002)									
17 42710	1967/07	06	FR 0113	013 / 110	20	013	013	013	013	17 42710	1967/07	06	FR 0113	013 / 110	20	013	013	013	013
4882265	3459									4882265	3459								
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Well Computer Print Out Data as of July 29 2008

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Well Computer Print Out Data as of July 29 2008

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Well Computer Print Out Data as of July 29 2008

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Well Computer Print Out Data as of July 29 2008

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Well Computer Print Out Data as of July 29 2008

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Well Computer Print Out Data as of July 29 2008

[illegible]

WELL: B (ABTITE) WELL TAG: B										DEPTHS TO WHICH FORMATIONS EXTEND: 11									
DATE: 2 CASINGS										STAT: LVL/PUMP LVL: 11									
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DATE: 2 CASINGS										STAT: LVL/PUMP LVL: 11									

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CONCRETE OR COMBUSTION	LOC	UNIT	DATE	CHASING CUT	WATER DIA	STAC VOL/PROP VOL ² BATH/10% BR-10%	WATER USE ³	SPRINK INCH ⁴	WELL # (ADDITION) WELL TAG #	DEPTH TO WATER
EAST GULLINBURY TOW CON. 05/10/22		48942637	1988/02	06	FR 5506	012 / 032 028 / 110	00	0046	00R-5424 (13358)	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/23		48942637	1971/12	30	FR 3242	026 / /	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/24		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/25		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/26		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/27		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/28		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/29		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/30		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/31		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/32		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/33		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/34		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/35		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/36		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/37		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/38		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/39		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/40		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/41		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/42		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R-5424 GULL CLAY 0546 BRNK SAND
EAST GULLINBURY TOW CON. 05/10/43		48942637	1989/12	06	FR 3243	100 / 233 076 / 110	00	0046	00R-5424 GULL CLAY 0546 BRNK SAND	00R

CONCRETE ID	DATE 1	DATE 2	CALLING DATE	DATE 3	DATE 4	DATE 5	DATE 6	DATE 7	DATE 8	DATE 9	DATE 10	DATE 11	DATE 12	DATE 13	DATE 14	DATE 15	DATE 16	DATE 17	DATE 18	DATE 19	DATE 20	DATE 21	DATE 22	DATE 23	DATE 24	DATE 25	DATE 26	DATE 27	DATE 28	DATE 29	DATE 30	DATE 31	DATE 32	DATE 33	DATE 34	DATE 35	DATE 36	DATE 37	DATE 38	DATE 39	DATE 40	DATE 41	DATE 42	DATE 43	DATE 44	DATE 45	DATE 46	DATE 47	DATE 48	DATE 49	DATE 50	DATE 51	DATE 52	DATE 53	DATE 54	DATE 55	DATE 56	DATE 57	DATE 58	DATE 59	DATE 60	DATE 61	DATE 62	DATE 63	DATE 64	DATE 65	DATE 66	DATE 67	DATE 68	DATE 69	DATE 70	DATE 71	DATE 72	DATE 73	DATE 74	DATE 75	DATE 76	DATE 77	DATE 78	DATE 79	DATE 80	DATE 81	DATE 82	DATE 83	DATE 84	DATE 85	DATE 86	DATE 87	DATE 88	DATE 89	DATE 90	DATE 91	DATE 92	DATE 93	DATE 94	DATE 95	DATE 96	DATE 97	DATE 98	DATE 99	DATE 100	DATE 101	DATE 102	DATE 103	DATE 104	DATE 105	DATE 106	DATE 107	DATE 108	DATE 109	DATE 110	DATE 111	DATE 112	DATE 113	DATE 114	DATE 115	DATE 116	DATE 117	DATE 118	DATE 119	DATE 120	DATE 121	DATE 122	DATE 123	DATE 124	DATE 125	DATE 126	DATE 127	DATE 128	DATE 129	DATE 130	DATE 131	DATE 132	DATE 133	DATE 134	DATE 135	DATE 136	DATE 137	DATE 138	DATE 139	DATE 140	DATE 141	DATE 142	DATE 143	DATE 144	DATE 145	DATE 146	DATE 147	DATE 148	DATE 149	DATE 150	DATE 151	DATE 152	DATE 153	DATE 154	DATE 155	DATE 156	DATE 157	DATE 158	DATE 159	DATE 160	DATE 161	DATE 162	DATE 163	DATE 164	DATE 165	DATE 166	DATE 167	DATE 168	DATE 169	DATE 170	DATE 171	DATE 172	DATE 173	DATE 174	DATE 175	DATE 176	DATE 177	DATE 178	DATE 179	DATE 180	DATE 181	DATE 182	DATE 183	DATE 184	DATE 185	DATE 186	DATE 187	DATE 188	DATE 189	DATE 190	DATE 191	DATE 192	DATE 193	DATE 194	DATE 195	DATE 196	DATE 197	DATE 198	DATE 199	DATE 200	DATE 201	DATE 202	DATE 203	DATE 204	DATE 205	DATE 206	DATE 207	DATE 208	DATE 209	DATE 210	DATE 211	DATE 212	DATE 213	DATE 214	DATE 215	DATE 216	DATE 217	DATE 218	DATE 219	DATE 220	DATE 221	DATE 222	DATE 223	DATE 224	DATE 225	DATE 226	DATE 227	DATE 228	DATE 229	DATE 230	DATE 231	DATE 232	DATE 233	DATE 234	DATE 235	DATE 236	DATE 237	DATE 238	DATE 239	DATE 240	DATE 241	DATE 242	DATE 243	DATE 244	DATE 245	DATE 246	DATE 247	DATE 248	DATE 249	DATE 250	DATE 251	DATE 252	DATE 253	DATE 254	DATE 255	DATE 256	DATE 257	DATE 258	DATE 259	DATE 260	DATE 261	DATE 262	DATE 263	DATE 264	DATE 265	DATE 266	DATE 267	DATE 268	DATE 269	DATE 270	DATE 271	DATE 272	DATE 273	DATE 274	DATE 275	DATE 276	DATE 277	DATE 278	DATE 279	DATE 280	DATE 281	DATE 282	DATE 283	DATE 284	DATE 285	DATE 286	DATE 287	DATE 288	DATE 289	DATE 290	DATE 291	DATE 292	DATE 293	DATE 294	DATE 295	DATE 296	DATE 297	DATE 298	DATE 299	DATE 300	DATE 301	DATE 302	DATE 303	DATE 304	DATE 305	DATE 306	DATE 307	DATE 308	DATE 309	DATE 310	DATE 311	DATE 312	DATE 313	DATE 314	DATE 315	DATE 316	DATE 317	DATE 318	DATE 319	DATE 320	DATE 321	DATE 322	DATE 323	DATE 324	DATE 325	DATE 326	DATE 327	DATE 328	DATE 329	DATE 330	DATE 331	DATE 332	DATE 333	DATE 334	DATE 335	DATE 336	DATE 337	DATE 338	DATE 339	DATE 340	DATE 341	DATE 342	DATE 343	DATE 344	DATE 345	DATE 346	DATE 347	DATE 348	DATE 349	DATE 350	DATE 351	DATE 352	DATE 353	DATE 354	DATE 355	DATE 356	DATE 357	DATE 358	DATE 359	DATE 360	DATE 361	DATE 362	DATE 363	DATE 364	DATE 365	DATE 366	DATE 367	DATE 368	DATE 369	DATE 370	DATE 371	DATE 372	DATE 373	DATE 374	DATE 375	DATE 376	DATE 377	DATE 378	DATE 379	DATE 380	DATE 381	DATE 382	DATE 383	DATE 384	DATE 385	DATE 386	DATE 387	DATE 388	DATE 389	DATE 390	DATE 391	DATE 392	DATE 393	DATE 394	DATE 395	DATE 396	DATE 397	DATE 398	DATE 399	DATE 400	DATE 401	DATE 402	DATE 403	DATE 404	DATE 405	DATE 406	DATE 407	DATE 408	DATE 409	DATE 410	DATE 411	DATE 412	DATE 413	DATE 414	DATE 415	DATE 416	DATE 417	DATE 4
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CONCRETE ID	UTM ¹	DATE ²	WATER ³	STATE ⁴	WATER	SOURCE
			CLASS ⁵	DATE ⁶	TYPE ⁷	TYPE ⁸
EAST GRILLIMMURRY TOW	4892584	1991/10	06	FE 0207	012 / 0.10	00/7
EAST GRILLIMMURRY TOW	4892584	1350			008 / 1.0	03
EAST GRILLIMMURRY TOW	4891874	1990/07	06	FE 0378	013 / 1.0	00
EAST GRILLIMMURRY TOW	4891874	1413			010 / 1.0	04
EAST GRILLIMMURRY TOW	4892825	1989/10	06	FE 0185	010 / 0.43	00/5
EAST GRILLIMMURRY TOW	4892825	1350			010 / 2.0	03
EAST GRILLIMMURRY TOW	4892825	1990/10	36			
EAST GRILLIMMURRY TOW	4892825	1413				
EAST GRILLIMMURRY TOW	4892825	1991/11	05	FE 0336	016 / 0.43	01/2
EAST GRILLIMMURRY TOW	4892825	2310			010 / 2.0	04
EAST GRILLIMMURRY TOW	4892555	1972/07	06	FE 0518	015 / 0.12	00
EAST GRILLIMMURRY TOW	4892555	1350			009 / 3.0	00
EAST GRILLIMMURRY TOW	4892555	1990/03	06	FE 0364	016 / 1.00	00
EAST GRILLIMMURRY TOW	4892555	1350			015 / 2.0	00
EAST GRILLIMMURRY TOW	4892825	1979/06	05	FE 0293	017 / 0.75	00
EAST GRILLIMMURRY TOW	4892825	1413			008 / 2.10	08
EAST GRILLIMMURRY TOW	4892825	1984/11	06	FE 0117	012 / 1.10	00
EAST GRILLIMMURRY TOW	4892825	1413			012 / 1.10	00
EAST GRILLIMMURRY TOW	4892825	1991/11	30			
EAST GRILLIMMURRY TOW	4892825	1413				
EAST GRILLIMMURRY TOW	4892825	1991/05	06	FE 0555	010 / 0.45	00/7
EAST GRILLIMMURRY TOW	4892825	1350			010 / 3.10	03
EAST GRILLIMMURRY TOW	4892825	1973/06	30	FE 0311	011 / 1.0	00
EAST GRILLIMMURRY TOW	4892825	1413			010 / 1.0	00
EAST GRILLIMMURRY TOW	4892825	1991/11	30			
EAST GRILLIMMURRY TOW	4892825	1413				
EAST GRILLIMMURRY TOW	4892825	1991/05	06	FE 0112	015 / 1.15	00
EAST GRILLIMMURRY TOW	4892825	1350			005 / 1.10	04

TOWNSHIP	CONCESSION (LAT)	UTM	DATE 1 CEN 1	DATE 2 CASING CEN 2	DATE 3 CASING CEN 3	DATE 4 CASING CEN 4	DATE 5 CASING CEN 5	DATE 6 CASING CEN 6	DATE 7 CASING CEN 7	DATE 8 CASING CEN 8	DATE 9 CASING CEN 9	DATE 10 CASING CEN 10	DATE 11 CASING CEN 11	DATE 12 CASING CEN 12	DATE 13 CASING CEN 13	DATE 14 CASING CEN 14	DATE 15 CASING CEN 15	DATE 16 CASING CEN 16	DATE 17 CASING CEN 17	DATE 18 CASING CEN 18	DATE 19 CASING CEN 19	DATE 20 CASING CEN 20	DATE 21 CASING CEN 21	DATE 22 CASING CEN 22	DATE 23 CASING CEN 23	DATE 24 CASING CEN 24	DATE 25 CASING CEN 25	DATE 26 CASING CEN 26	DATE 27 CASING CEN 27	DATE 28 CASING CEN 28	DATE 29 CASING CEN 29	DATE 30 CASING CEN 30	DATE 31 CASING CEN 31	DATE 32 CASING CEN 32	DATE 33 CASING CEN 33	DATE 34 CASING CEN 34	DATE 35 CASING CEN 35	DATE 36 CASING CEN 36	DATE 37 CASING CEN 37	DATE 38 CASING CEN 38	DATE 39 CASING CEN 39	DATE 40 CASING CEN 40	DATE 41 CASING CEN 41	DATE 42 CASING CEN 42	DATE 43 CASING CEN 43	DATE 44 CASING CEN 44	DATE 45 CASING CEN 45	DATE 46 CASING CEN 46	DATE 47 CASING CEN 47	DATE 48 CASING CEN 48	DATE 49 CASING CEN 49	DATE 50 CASING CEN 50	DATE 51 CASING CEN 51	DATE 52 CASING CEN 52	DATE 53 CASING CEN 53	DATE 54 CASING CEN 54	DATE 55 CASING CEN 55	DATE 56 CASING CEN 56	DATE 57 CASING CEN 57	DATE 58 CASING CEN 58	DATE 59 CASING CEN 59	DATE 60 CASING CEN 60	DATE 61 CASING CEN 61	DATE 62 CASING CEN 62	DATE 63 CASING CEN 63	DATE 64 CASING CEN 64	DATE 65 CASING CEN 65	DATE 66 CASING CEN 66	DATE 67 CASING CEN 67	DATE 68 CASING CEN 68	DATE 69 CASING CEN 69	DATE 70 CASING CEN 70	DATE 71 CASING CEN 71	DATE 72 CASING CEN 72	DATE 73 CASING CEN 73	DATE 74 CASING CEN 74	DATE 75 CASING CEN 75	DATE 76 CASING CEN 76	DATE 77 CASING CEN 77	DATE 78 CASING CEN 78	DATE 79 CASING CEN 79	DATE 80 CASING CEN 80	DATE 81 CASING CEN 81	DATE 82 CASING CEN 82	DATE 83 CASING CEN 83	DATE 84 CASING CEN 84	DATE 85 CASING CEN 85	DATE 86 CASING CEN 86	DATE 87 CASING CEN 87	DATE 88 CASING CEN 88	DATE 89 CASING CEN 89	DATE 90 CASING CEN 90	DATE 91 CASING CEN 91	DATE 92 CASING CEN 92	DATE 93 CASING CEN 93	DATE 94 CASING CEN 94	DATE 95 CASING CEN 95	DATE 96 CASING CEN 96	DATE 97 CASING CEN 97	DATE 98 CASING CEN 98	DATE 99 CASING CEN 99	DATE 100 CASING CEN 100	DATE 101 CASING CEN 101	DATE 102 CASING CEN 102	DATE 103 CASING CEN 103	DATE 104 CASING CEN 104	DATE 105 CASING CEN 105	DATE 106 CASING CEN 106	DATE 107 CASING CEN 107	DATE 108 CASING CEN 108	DATE 109 CASING CEN 109	DATE 110 CASING CEN 110	DATE 111 CASING CEN 111	DATE 112 CASING CEN 112	DATE 113 CASING CEN 113	DATE 114 CASING CEN 114	DATE 115 CASING CEN 115	DATE 116 CASING CEN 116	DATE 117 CASING CEN 117	DATE 118 CASING CEN 118	DATE 119 CASING CEN 119	DATE 120 CASING CEN 120	DATE 121 CASING CEN 121	DATE 122 CASING CEN 122	DATE 123 CASING CEN 123	DATE 124 CASING CEN 124	DATE 125 CASING CEN 125	DATE 126 CASING CEN 126	DATE 127 CASING CEN 127	DATE 128 CASING CEN 128	DATE 129 CASING CEN 129	DATE 130 CASING CEN 130	DATE 131 CASING CEN 131	DATE 132 CASING CEN 132
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[illegible]

TOWNSHIP	UTM ¹	DATE	CALIBER	WEAP ²	STG. CALIBR. DIA. ³	WEIGH	FORWARD
CONCESSION NO.	CONTR. NO.	CONTR. NO.	CONTR. NO.	CONTR. NO.	CONTR. NO.	CONTR. NO.	CONTR. NO.
EAST GRILLIMBURY TOW	17 623533	1931:10	05	FR 0516	020 / 1.0	00	0015
CUN 04(025)	4892314	2312:07	06	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623566	1932:07	06	FR 0516	020 / 1.0	00	0015
CUN 04(025)	4892511	1350	06	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623564	1932:07	06	FR 0516	020 / 1.0	00	0015
CUN 04(025)	4892511	1350	06	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623543	1938:02	06	FR 0516	020 / 1.0	00	0015
CUN 04(026)	4892468	1938:02	06	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623845	1943:10	05	FR 0516	020 / 1.0	00	0015
CUN 04(026)	4892417	1411	05	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623935	1941:05	10	FR 0516	020 / 1.0	00	0015
CUN 04(028)	4892173	3109	10	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623913	1939:07	10	FR 0516	020 / 1.0	00	0015
CUN 04(028)	4893175	3109	10	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623913	1939:07	10	FR 0516	020 / 1.0	00	0015
CUN 04(028)	4893175	3109	10	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623913	1939:07	10	FR 0516	020 / 1.0	00	0015
CUN 04(028)	4893175	3109	10	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623913	1939:07	10	FR 0516	020 / 1.0	00	0015
CUN 04(028)	4893175	3109	10	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623913	1939:07	10	FR 0516	020 / 1.0	00	0015
CUN 04(028)	4893175	3109	10	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623913	1939:07	10	FR 0516	020 / 1.0	00	0015
CUN 04(028)	4893175	3109	10	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623913	1939:07	10	FR 0516	020 / 1.0	00	0015
CUN 04(028)	4893175	3109	10	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623913	1939:07	10	FR 0516	020 / 1.0	00	0015
CUN 04(028)	4893175	3109	10	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623913	1939:07	10	FR 0516	020 / 1.0	00	0015
CUN 04(028)	4893175	3109	10	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623913	1939:07	10	FR 0516	020 / 1.0	00	0015
CUN 04(028)	4893175	3109	10	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623913	1939:07	10	FR 0516	020 / 1.0	00	0015
CUN 04(028)	4893175	3109	10	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623913	1939:07	10	FR 0516	020 / 1.0	00	0015
CUN 04(028)	4893175	3109	10	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623913	1939:07	10	FR 0516	020 / 1.0	00	0015
CUN 04(028)	4893175	3109	10	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623913	1939:07	10	FR 0516	020 / 1.0	00	0015
CUN 04(028)	4893175	3109	10	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623913	1939:07	10	FR 0516	020 / 1.0	00	0015
CUN 04(028)	4893175	3109	10	FR 0516	020 / 1.0	00	0015
EAST GRILLIMBURY TOW	17 623913	1939:07	10	FR 0516	020 / 1.0	00	0015
CUN 04(028)	4893175	3109	10	FR 0516	0		

TRANSPIRY	DATE 2	DATE 1	DATE 3	DATE 4	DATE 5	DATE 6	DATE 7	DATE 8	DATE 9	DATE 10	DATE 11	DATE 12	DATE 13	DATE 14	DATE 15	DATE 16	DATE 17	DATE 18	DATE 19	DATE 20	DATE 21	DATE 22	DATE 23	DATE 24	DATE 25	DATE 26	DATE 27	DATE 28	DATE 29	DATE 30	DATE 31	DATE 32	DATE 33	DATE 34	DATE 35	DATE 36	DATE 37	DATE 38	DATE 39	DATE 40	DATE 41	DATE 42	DATE 43	DATE 44	DATE 45	DATE 46	DATE 47	DATE 48	DATE 49	DATE 50	DATE 51	DATE 52	DATE 53	DATE 54	DATE 55	DATE 56	DATE 57	DATE 58	DATE 59	DATE 60	DATE 61	DATE 62	DATE 63	DATE 64	DATE 65	DATE 66	DATE 67	DATE 68	DATE 69	DATE 70	DATE 71	DATE 72	DATE 73	DATE 74	DATE 75	DATE 76	DATE 77	DATE 78	DATE 79	DATE 80	DATE 81	DATE 82	DATE 83	DATE 84	DATE 85	DATE 86	DATE 87	DATE 88	DATE 89	DATE 90	DATE 91	DATE 92	DATE 93	DATE 94	DATE 95	DATE 96	DATE 97	DATE 98	DATE 99	DATE 100	DATE 101	DATE 102	DATE 103	DATE 104	DATE 105	DATE 106	DATE 107	DATE 108	DATE 109	DATE 110	DATE 111	DATE 112	DATE 113	DATE 114	DATE 115	DATE 116	DATE 117	DATE 118	DATE 119	DATE 120	DATE 121	DATE 122	DATE 123	DATE 124	DATE 125	DATE 126	DATE 127	DATE 128	DATE 129	DATE 130	DATE 131	DATE 132	DATE 133	DATE 134	DATE 135	DATE 136	DATE 137	DATE 138	DATE 139	DATE 140	DATE 141	DATE 142	DATE 143	DATE 144	DATE 145	DATE 146	DATE 147	DATE 148	DATE 149	DATE 150	DATE 151	DATE 152	DATE 153	DATE 154	DATE 155	DATE 156	DATE 157	DATE 158	DATE 159	DATE 160	DATE 161	DATE 162	DATE 163	DATE 164	DATE 165	DATE 166	DATE 167	DATE 168	DATE 169	DATE 170	DATE 171	DATE 172	DATE 173	DATE 174	DATE 175	DATE 176	DATE 177	DATE 178	DATE 179	DATE 180	DATE 181	DATE 182	DATE 183	DATE 184	DATE 185	DATE 186	DATE 187	DATE 188	DATE 189	DATE 190	DATE 191	DATE 192	DATE 193	DATE 194	DATE 195	DATE 196	DATE 197	DATE 198	DATE 199	DATE 200	DATE 201	DATE 202	DATE 203	DATE 204	DATE 205	DATE 206	DATE 207	DATE 208	DATE 209	DATE 210	DATE 211	DATE 212	DATE 213	DATE 214	DATE 215	DATE 216	DATE 217	DATE 218	DATE 219	DATE 220	DATE 221	DATE 222	DATE 223	DATE 224	DATE 225	DATE 226	DATE 227	DATE 228	DATE 229	DATE 230	DATE 231	DATE 232	DATE 233	DATE 234	DATE 235	DATE 236	DATE 237	DATE 238	DATE 239	DATE 240	DATE 241	DATE 242	DATE 243	DATE 244	DATE 245	DATE 246	DATE 247	DATE 248	DATE 249	DATE 250	DATE 251	DATE 252	DATE 253	DATE 254	DATE 255	DATE 256	DATE 257	DATE 258	DATE 259	DATE 260	DATE 261	DATE 262	DATE 263	DATE 264	DATE 265	DATE 266	DATE 267	DATE 268	DATE 269	DATE 270	DATE 271	DATE 272	DATE 273	DATE 274	DATE 275	DATE 276	DATE 277	DATE 278	DATE 279	DATE 280	DATE 281	DATE 282	DATE 283	DATE 284	DATE 285	DATE 286	DATE 287	DATE 288	DATE 289	DATE 290	DATE 291	DATE 292	DATE 293	DATE 294	DATE 295	DATE 296	DATE 297	DATE 298	DATE 299	DATE 300	DATE 301	DATE 302	DATE 303	DATE 304	DATE 305	DATE 306	DATE 307	DATE 308	DATE 309	DATE 310	DATE 311	DATE 312	DATE 313	DATE 314	DATE 315	DATE 316	DATE 317	DATE 318	DATE 319	DATE 320	DATE 321	DATE 322	DATE 323	DATE 324	DATE 325	DATE 326	DATE 327	DATE 328	DATE 329	DATE 330	DATE 331	DATE 332	DATE 333	DATE 334	DATE 335	DATE 336	DATE 337	DATE 338	DATE 339	DATE 340	DATE 341	DATE 342	DATE 343	DATE 344	DATE 345	DATE 346	DATE 347	DATE 348	DATE 349	DATE 350	DATE 351	DATE 352	DATE 353	DATE 354	DATE 355	DATE 356	DATE 357	DATE 358	DATE 359	DATE 360	DATE 361	DATE 362	DATE 363	DATE 364	DATE 365	DATE 366	DATE 367	DATE 368	DATE 369	DATE 370	DATE 371	DATE 372	DATE 373	DATE 374	DATE 375	DATE 376	DATE 377	DATE 378	DATE 379	DATE 380	DATE 381	DATE 382	DATE 383	DATE 384	DATE 385	DATE 386	DATE 387	DATE 388	DATE 389	DATE 390	DATE 391	DATE 392	DATE 393	DATE 394	DATE 395	DATE 396	DATE 397	DATE 398	DATE 399	DATE 400	DATE 401	DATE 402	DATE 403	DATE 404	DATE 405	DATE 406	DATE 407	DATE 408	DATE 409	DATE 410	DATE 411	DATE 412	DATE 413	DATE 414	DATE 415	DATE 416	DATE 417	DATE 418	DATE 419	
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West Campus Final Run Data as of July 27, 2000									
TOWNSHIP	CONCRETE	DATE	CHASER	WATER	STRT	END	MP	EXT	STATION
		TIME	NO	GA	DEPT	TIME	DEPT	TIME	
EAST GALLIMORE TOW	15 E 011001	17 620970	199152	06	FR	0270	050	3:30	00
		4883395	1413						
BRNK GRVL SANE LOGS 0000 0025 GRAY CLAY									
DRSK 0030 GRPY SAND S117 HMC 0119									
DRSK 0040 GRPY SAND S117 HMC 0119									
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DRSK 0080 GRPY SAND S117 HMC 0119									
DRSK 0090 GRPY SAND S117 HMC 0119									
DRSK 0100 GRPY SAND S117 HMC 0119									
DRSK 0110 GRPY SAND S117 HMC 0119									
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DRSK 0130 GRPY SAND S117 HMC 0119									
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DRSK 0210 GRPY SAND S117 HMC 0119									
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CONCESSION #	TOWNSHIP	UNIT	DATE 1	CASING	DATE 2	DATE 3	DATE 4	DATE 5	DATE 6	DATE 7	DATE 8	DATE 9	DATE 10	DATE 11	DATE 12	DATE 13	DATE 14	DATE 15	DATE 16	DATE 17	DATE 18	DATE 19	DATE 20	DATE 21	DATE 22	DATE 23	DATE 24	DATE 25	DATE 26	DATE 27	DATE 28	DATE 29	DATE 30	DATE 31	DATE 32	DATE 33	DATE 34	DATE 35	DATE 36	DATE 37	DATE 38	DATE 39	DATE 40	DATE 41	DATE 42	DATE 43	DATE 44	DATE 45	DATE 46	DATE 47	DATE 48	DATE 49	DATE 50	DATE 51	DATE 52	DATE 53	DATE 54	DATE 55	DATE 56	DATE 57	DATE 58	DATE 59	DATE 60	DATE 61	DATE 62	DATE 63	DATE 64	DATE 65	DATE 66	DATE 67	DATE 68	DATE 69	DATE 70	DATE 71	DATE 72	DATE 73	DATE 74	DATE 75	DATE 76	DATE 77	DATE 78	DATE 79	DATE 80	DATE 81	DATE 82	DATE 83	DATE 84	DATE 85	DATE 86	DATE 87	DATE 88	DATE 89	DATE 90	DATE 91	DATE 92	DATE 93	DATE 94	DATE 95	DATE 96	DATE 97	DATE 98	DATE 99	DATE 100	DATE 101	DATE 102	DATE 103	DATE 104	DATE 105	DATE 106	DATE 107	DATE 108	DATE 109	DATE 110	DATE 111	DATE 112	DATE 113	DATE 114	DATE 115	DATE 116	DATE 117	DATE 118	DATE 119	DATE 120	DATE 121	DATE 122	DATE 123	DATE 124	DATE 125	DATE 126	DATE 127	DATE 128	DATE 129	DATE 130	DATE 131	DATE 132	DATE 133	DATE 134	DATE 135	DATE 136	DATE 137	DATE 138	DATE 139	DATE 140	DATE 141	DATE 142	DATE 143	DATE 144	DATE 145	DATE 146	DATE 147	DATE 148	DATE 149	DATE 150	DATE 151	DATE 152	DATE 153	DATE 154	DATE 155	DATE 156	DATE 157	DATE 158	DATE 159	DATE 160	DATE 161	DATE 162	DATE 163	DATE 164	DATE 165	DATE 166	DATE 167	DATE 168	DATE 169	DATE 170	DATE 171	DATE 172	DATE 173	DATE 174	DATE 175	DATE 176	DATE 177	DATE 178	DATE 179	DATE 180	DATE 181	DATE 182	DATE 183	DATE 184	DATE 185	DATE 186	DATE 187	DATE 188	DATE 189	DATE 190	DATE 191	DATE 192	DATE 193	DATE 194	DATE 195	DATE 196	DATE 197	DATE 198	DATE 199	DATE 200	DATE 201	DATE 202	DATE 203	DATE 204	DATE 205	DATE 206	DATE 207	DATE 208	DATE 209	DATE 210	DATE 211	DATE 212	DATE 213	DATE 214	DATE 215	DATE 216	DATE 217	DATE 218	DATE 219	DATE 220	DATE 221	DATE 222	DATE 223	DATE 224	DATE 225	DATE 226	DATE 227	DATE 228	DATE 229	DATE 230	DATE 231	DATE 232	DATE 233	DATE 234	DATE 235	DATE 236	DATE 237	DATE 238	DATE 239	DATE 240	DATE 241	DATE 242	DATE 243	DATE 244	DATE 245	DATE 246	DATE 247	DATE 248	DATE 249	DATE 250	DATE 251	DATE 252	DATE 253	DATE 254	DATE 255	DATE 256	DATE 257	DATE 258	DATE 259	DATE 260	DATE 261	DATE 262	DATE 263	DATE 264	DATE 265	DATE 266	DATE 267	DATE 268	DATE 269	DATE 270	DATE 271	DATE 272	DATE 273	DATE 274	DATE 275	DATE 276	DATE 277	DATE 278	DATE 279	DATE 280	DATE 281	DATE 282	DATE 283	DATE 284	DATE 285	DATE 286	DATE 287	DATE 288	DATE 289	DATE 290	DATE 291	DATE 292	DATE 293	DATE 294	DATE 295	DATE 296	DATE 297	DATE 298	DATE 299	DATE 300	DATE 301	DATE 302	DATE 303	DATE 304	DATE 305	DATE 306	DATE 307	DATE 308	DATE 309	DATE 310	DATE 311	DATE 312	DATE 313	DATE 314	DATE 315	DATE 316	DATE 317	DATE 318	DATE 319	DATE 320	DATE 321	DATE 322	DATE 323	DATE 324	DATE 325	DATE 326	DATE 327	DATE 328	DATE 329	DATE 330	DATE 331	DATE 332	DATE 333	DATE 334	DATE 335	DATE 336	DATE 337	DATE 338	DATE 339	DATE 340	DATE 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CONCESSION 1,2,7	UNIT	DATE 2	CASING	DATE 3	DATE 4	DATE 5	DATE 6	DATE 7	DATE 8	DATE 9	DATE 10	DATE 11	DATE 12	DATE 13	DATE 14	DATE 15	DATE 16	DATE 17	DATE 18	DATE 19	DATE 20	DATE 21	DATE 22	DATE 23	DATE 24	DATE 25	DATE 26	DATE 27	DATE 28	DATE 29	DATE 30	DATE 31	DATE 32	DATE 33	DATE 34	DATE 35	DATE 36	DATE 37	DATE 38	DATE 39	DATE 40	DATE 41	DATE 42	DATE 43	DATE 44	DATE 45	DATE 46	DATE 47	DATE 48	DATE 49	DATE 50	DATE 51	DATE 52	DATE 53	DATE 54	DATE 55	DATE 56	DATE 57	DATE 58	DATE 59	DATE 60	DATE 61	DATE 62	DATE 63	DATE 64	DATE 65	DATE 66	DATE 67	DATE 68	DATE 69	DATE 70	DATE 71	DATE 72	DATE 73	DATE 74	DATE 75	DATE 76	DATE 77	DATE 78	DATE 79	DATE 80	DATE 81	DATE 82	DATE 83	DATE 84	DATE 85	DATE 86	DATE 87	DATE 88	DATE 89	DATE 90	DATE 91	DATE 92	DATE 93	DATE 94	DATE 95	DATE 96	DATE 97	DATE 98	DATE 99	DATE 100	DATE 101	DATE 102	DATE 103	DATE 104	DATE 105	DATE 106	DATE 107	DATE 108	DATE 109	DATE 110	DATE 111	DATE 112	DATE 113	DATE 114	DATE 115	DATE 116	DATE 117	DATE 118	DATE 119	DATE 120	DATE 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1008	DATE 1009	DATE 1010	DATE 1011	DATE 1012	DATE 1013	DATE 1014	DATE 1015	DATE 1016	DATE 1017	DATE 1018	DATE 1019	DATE 1020	DATE 1021	DATE 1022	DATE 1023	DATE 1024	DATE 1025	DATE 1026	DATE 1027	DATE 1028	DATE 1029	DATE 1030	DATE 1031	DATE 1032	DATE 1033	DATE 1034	DATE 1035	DATE 1036	DATE 1037	DATE 1038	DATE 1039	DATE 1040	DATE 1041	DATE 1042	DATE 1043	DATE 1044	DATE 1045	DATE 1046	DATE 1047	DATE 1048	DATE 1049	DATE 1050	DATE 1051	DATE 1052	DATE 1053	DATE 1054	DATE 1055	DATE 1056	DATE 1057	DATE 1058	DATE 1059	DATE 1060	DATE 1061	DATE 1062	DATE 1063	DATE 1064	DATE 1065	DATE 1066	DATE 1067	DATE 1068	DATE 1069	DATE 1070	DATE 1071	DATE 1072	DATE 1073	DATE 1074	DATE 1075	DATE 1076	DATE 1077	DATE 1078	DATE 1079	DATE 1080	DATE 1081	DATE 1082	DATE 1083	DATE 1084	DATE 1085	DATE 1086	DATE 1087	DATE 1088	DATE 1089	DATE 1090	DATE 1091	DATE 1092	DATE 1093	DATE 1094	DATE 1095	DATE 1096	DATE 1097	DATE 1098	DATE 1099	DATE 1100	DATE 1101	DATE 1102	DATE 1103	DATE 1104	DATE 1105	DATE 1106	DATE 1107	DATE 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1208	DATE 1209	DATE 1210	DATE 1211	DATE 1212	DATE 1213	DATE 1214	DATE 1215	DATE 1216	DATE 1217	DATE 1218	DATE 1219	DATE 1220	DATE 1221	DATE 1222	DATE 1223	DATE 1224	DATE
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CONSTRUCTION		UTM ¹	DATE ²	CASING ³	WATER ^{4,5}	STATUS ⁶	STAY ⁷	WATER ⁸	SPRINK ⁹	DEPTHS TO WHICH POLLUTANTS EXTEND ¹⁰		WELL & (A)BILITY WELL TAG #
CONCRETE	LOFT		CRK ¹	CH ²	DIA ³	DEPTH	TIME	DR. DIR.	USE ⁹			
NORMARCT. TOWN (EAST)		17 624384	1951/08	05								
CON. 0210021		4880295 ¹	2801									
NORMARCT. TOWN (EAST)		17 624384	2004/01	02								
CON. 0210021		4880635 ¹	6012									
NORMARCT. TOWN (EAST)		17 624384	1994/01									
CON. 0210021		4883993 ¹	6454									
NORMARCT. TOWN (EAST)		17 625225	1971/11	30								
CON. 0210021		4880708 ¹	4251									
NORMARCT. TOWN (EAST)		17 625225	1971/11	30								
CON. 0210021		4880753 ¹	4251									
NORMARCT. TOWN (EAST)		17 623165	1970/11	12								
CON. 0210021		4880491 ¹	3002									
NORMARCT. TOWN (EAST)		17 625145	1970/06	30								
CON. 0210021		4880753 ¹	3109									
NORMARCT. TOWN (EAST)		17 625145	1970/06	30								
CON. 0210021		4880753 ¹	3109									
NORMARCT. TOWN (EAST)		17 623596	1967/06	02								
CON. 0210021		4880521 ¹	2801									
NORMARCT. TOWN (EAST)		17 625225	1968/11	30								
CON. 0210021		4880429 ¹	3109									
NORMARCT. TOWN (EAST)		17 624675	1968/02	02								
CON. 0210021		4880573 ¹	2801									
NORMARCT. TOWN (EAST)		17 625195	1965/11	30								
CON. 0210021		4880402 ¹	4109									

[illegible][illegible]

APPENDIX I
ANALYTICAL LABORATORY TEST RESULTS



AGAT® Laboratories

Certificate of Analysis

AGAT WORK ORDER: 09T331534

PROJECT NO:

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
L4Z 1Y2

TEL: (905) 712-5100
FAX: (905) 712-5122
www.agatlabs.com

CLIENT NAME: THURBER ENGINEERING LTD

ATTENTION TO: D. Elwood

Microbiological Analysis (water)

DATE SAMPLED: May 12, 2009	DATE RECEIVED: May 12, 2009		DATE REPORTED: May 22, 2009		SAMPLE TYPE: Water		
Parameter	Unit	G / S	RDL	1825 1309356	SMW 1309357	NMW 1309367	1570 1309377
Escherichia coli	CFU/100ml	<1	1	< 1	< 1	< 1	< 1
Fecal Coliform	CFU/100ml	<1	1	< 1	< 1	900	< 1
Total Coliforms	CFU/100mL	<1	1	< 1	< 1	< 1	1
Heterotrophic Plate Count	CFU/ml	<500	10	1730	< 10	320	220

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard; Refers to SDWA - Microbiology

Certified By:

Elizabeth Rotkowski



AGAT[®] Laboratories

Certificate of Analysis

AGAT WORK ORDER: 09T331534

PROJECT NO:

TEL: (905) 712-5100
FAX: (905) 712-5122
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5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
L4Z 1Y2

CLIENT NAME: THURBER ENGINEERING LTD

ATTENTION TO: D. Elwood

O. Reg 153 Petroleum Hydrocarbon F1 - F4 in Water

DATE SAMPLED: May 12, 2009		DATE RECEIVED: May 12, 2009			DATE REPORTED: May 22, 2009		SAMPLE TYPE: Water
Parameter	Unit	G / S	RDL	1825 1309356	SMW 1309357	NMW 1309367	1570 1309377
Benzene	µg/L	5.0	0.2	<0.2	<0.2	<0.2	<0.2
Toluene	µg/L	24	0.2	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	µg/L	2.4	0.1	<0.1	<0.1	<0.1	<0.1
Xylenes (Total)	µg/L	300	0.2	<0.2	<0.2	<0.2	<0.2
C6 - C10 (F1)	µg/L		100	<100	<100	<100	<100
C6 - C10 (F1 minus BTEX)	µg/L		100	<100	<100	<100	<100
C>10 - C16 (F2)	µg/L		100	<100	<100	<100	<100
C6 - C16 (F1 + F2)	µg/L		100	<100	<100	<100	<100
C>16 - C34 (F3)	µg/L		100	<100	<100	<100	<100
C>34 - C50 (F4)	µg/L		100	<100	<100	<100	<100
C>16 - C50 (F3 + F4)	µg/L		100	<100	<100	<100	<100
Gravimetric Heavy Hydrocarbons	µg/L		500	NA	NA	NA	NA

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard; Refers to ODWQS AO and OG

1309356-1309377

The C6-C10 fraction is calculated using Toluene response factor.

The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34.

Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.

Total C6-C50 results are corrected for BTEX contributions.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 nC34 average.

Linearity is within 15%.

Extraction and holding times were met for this sample.

Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

NA = Not Applicable

Certified By:



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Certificate of Analysis

AGAT WORK ORDER: 09T331534

PROJECT NO:

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5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
L4Z 1Y2

CLIENT NAME: THURBER ENGINEERING LTD

ATTENTION TO: D. Elwood

Water Quality Assessment

DATE SAMPLED: May 12, 2009		DATE RECEIVED: May 12, 2009				DATE REPORTED: May 22, 2009		SAMPLE TYPE: Water	
Parameter	Unit	G / S	RDL	1825 1309356	SMW 1309357	NMW 1309367	1570 1309377		
Electrical Conductivity	uS/cm		2	963	767	210	378		
pH	NA	6.5-8.5	NA	8.25	8.32	8.33	8.41		
Saturation pH				6.70	7.04	8.03	7.34		
Langlier Index				1.55	1.28	0.30	1.07		
Total Dissolved Solids	mg/L	500	20	588	510	160	226		
Total Hardness (as CaCO3)	mg/L	80-100	10	438	382	66	157		
% Difference/ Ion Balance			0.1	3.9	2.7	3.4	2.3		
Alkalinity (as CaCO3)	mg/L	30-500	5	355	187	94	197		
Bicarbonate (as CaCO3)	mg/L		5	355	185	93	191		
Carbonate (as CaCO3)	mg/L		5	<5	<5	<5	6		
Hydroxide (as CaCO3)	mg/L		5	<5	<5	<5	<5		
Fluoride	mg/L		0.05	<0.05	<0.05	0.35	0.31		
Chloride	mg/L	250	0.10	89.1	98.5	2.35	9.77		
Bromide	mg/L		0.05	<0.05	<0.05	<0.05	<0.05		
Nitrate as N	mg/L	10.0	0.05	<0.05	<0.05	0.36	<0.05		
Nitrite as N	mg/L	1.0	0.05	<0.05	<0.05	<0.05	<0.05		
Sulphate	mg/L	500	0.10	32.0	72.1	11.9	1.16		
Ortho phosphate as P	mg/L		0.10	<0.10	<0.10	<0.10	<0.10		
Reactive Silica	mg/L		0.05	15.4	13.8	8.46	16.6		
Colour	TCU	5	5	<5	<5	<5	7		
Turbidity	NTU	5	0.5	<0.5	8.6	96.7	6.0		
Calcium	mg/L		0.05	144	104	17.2	35.1		
Magnesium	mg/L		0.05	19.0	29.7	5.71	16.8		
Sodium	mg/L	20 (200)	0.05	54.1	18.1	23.6	29.5		
Potassium	mg/L		0.05	0.48	2.00	0.79	1.06		
Aluminum	mg/L	0.1	0.004	0.004	0.227	0.547	0.014		
Arsenic	mg/L	0.025	0.003	<0.003	<0.003	<0.003	<0.003		
Barium	mg/L	1.0	0.002	0.087	0.106	0.062	0.078		
Boron	mg/L	5.0	0.010	0.029	0.014	0.095	0.064		
Cadmium	mg/L	0.005	0.002	<0.002	<0.002	<0.002	<0.002		
Chromium	mg/L	0.05	0.003	0.003	0.004	<0.003	<0.003		

Certified By:

Mike Munro



AGAT[®] Laboratories

Certificate of Analysis

AGAT WORK ORDER: 09T331534

PROJECT NO:

TEL: (905) 712-5100
FAX: (905) 712-5122
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5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
L4Z 1Y2

CLIENT NAME: THURBER ENGINEERING LTD

ATTENTION TO: D. Elwood

Water Quality Assessment

DATE SAMPLED: May 12, 2009			DATE RECEIVED: May 12, 2009			DATE REPORTED: May 22, 2009			SAMPLE TYPE: Water
Parameter	Unit	G / S	RDL	1825 1309356	SMW 1309357	NMW 1309367	1570 1309377		
Copper	mg/L	1	0.003	0.107	<0.003	0.004	<0.003		
Iron	mg/L	0.3	0.010	0.013	0.521	0.891	1.59		
Lead	mg/L	0.01	0.002	<0.002	<0.002	0.002	<0.002		
Manganese	mg/L	0.05	0.002	0.032	0.125	0.094	0.047		
Mercury	mg/L	0.001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001		
Molybdenum	mg/L		0.002	<0.002	<0.002	<0.002	0.003		
Nickel	mg/L		0.003	<0.003	<0.003	<0.003	<0.003		
Selenium	mg/L	0.01	0.004	<0.004	<0.004	<0.004	<0.004		
Silver	mg/L		0.002	<0.002	<0.002	<0.002	<0.002		
Strontium	mg/L		0.005	0.505	0.303	0.337	0.466		
Thallium	mg/L		0.006	<0.006	<0.006	<0.006	<0.006		
Titanium	mg/L		0.002	<0.002	0.011	0.018	<0.002		
Uranium	mg/L	0.02	0.002	<0.002	<0.002	<0.002	<0.002		
Vanadium	mg/L		0.002	<0.002	<0.002	0.002	<0.002		
Zinc	mg/L	5	0.005	0.026	<0.005	0.009	0.057		

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard; Refers to ODWQS AO and OG

Certified By:

Phil Morrison



AGAT® Laboratories

Guideline Violation

AGAT WORK ORDER: 09T331534

PROJECT NO:

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
L4Z 1Y2

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CLIENT NAME: THURBER ENGINEERING LTD

ATTENTION TO: D. Elwood

SAMPLE ID	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
1309356	ODWQS AO and OG	Water Quality Assessment	Sodium	20 (200)	54.1
1309356	ODWQS AO and OG	Water Quality Assessment	Total Dissolved Solids	500	588
1309356	ODWQS AO and OG	Water Quality Assessment	Total Hardness (as CaCO3)	80-100	438
1309357	ODWQS AO and OG	Water Quality Assessment	Aluminum	0.1	0.227
1309357	ODWQS AO and OG	Water Quality Assessment	Iron	0.3	0.521
1309357	ODWQS AO and OG	Water Quality Assessment	Manganese	0.05	0.125
1309357	ODWQS AO and OG	Water Quality Assessment	Total Dissolved Solids	500	510
1309357	ODWQS AO and OG	Water Quality Assessment	Total Hardness (as CaCO3)	80-100	382
1309357	ODWQS AO and OG	Water Quality Assessment	Turbidity	5	8.6
1309357	ODWQS AO and OG	Water Quality Assessment	Aluminum	0.1	0.547
1309367	ODWQS AO and OG	Water Quality Assessment	Iron	0.3	0.891
1309367	ODWQS AO and OG	Water Quality Assessment	Manganese	0.05	0.094
1309367	ODWQS AO and OG	Water Quality Assessment	Sodium	20 (200)	23.6
1309367	ODWQS AO and OG	Water Quality Assessment	Total Hardness (as CaCO3)	80-100	66
1309367	ODWQS AO and OG	Water Quality Assessment	Turbidity	5	96.7
1309377	ODWQS AO and OG	Water Quality Assessment	Colour	5	7
1309377	ODWQS AO and OG	Water Quality Assessment	Iron	0.3	1.59
1309377	ODWQS AO and OG	Water Quality Assessment	Sodium	20 (200)	29.5
1309377	ODWQS AO and OG	Water Quality Assessment	Total Hardness (as CaCO3)	80-100	157
1309377	ODWQS AO and OG	Water Quality Assessment	Turbidity	5	6.0



Quality Assurance

CLIENT NAME: THURBER ENGINEERING LTD

AGAT WORK ORDER: 09T331534

PROJECT NO:

ATTENTION TO: D. Elwood

Microbiology Analysis

RPT Date: May 22, 2009			DUPLICATE			Method Blank	REFERENCE MATERIAL		METHOD BLANK SPIKE		MATRIX SPIKE	
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measure d Value	Acceptable Limits	Recovery	Acceptable Limits	Recovery	Acceptable Limits
								Lower		Upper		Lower

Microbiological Analysis (water)

Escherichia coli (CFU/100ml)	1		< 1	< 1	0.0%	< 1
Fecal Coliform (CFU/100ml)	1		< 1	< 1	0.0%	< 1
Total Coliforms (CFU/100mL)	1		< 1	< 1	0.0%	< 1
Heterotrophic Plate Count (CFU/ml)	1		< 10	< 10	0.0%	< 10

Certified By:

Elizabeth Polakowska

AGAT QUALITY ASSURANCE REPORT (V1)

Page 7 of 12

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Analytical Laboratories (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Analytical Laboratories (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation.



Quality Assurance

CLIENT NAME: THURBER ENGINEERING LTD

AGAT WORK ORDER: 09T331534

PROJECT NO:

ATTENTION TO: D. Elwood

Trace Organics Analysis

RPT Date: May 22, 2009			DUPLICATE			Method Blank	REFERENCE MATERIAL		METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measure d Value	Acceptable Limits	Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower		Upper	Lower		Upper	Lower

O. Reg 153 Petroleum Hydrocarbon F1 - F4 in Water

Benzene (µg/L)	1		< 0.2	< 0.2	0.0%	< 0.2	98%	70%	130%	81%	70%	130%	84%	70%	130%
Toluene (µg/L)	1		< 0.2	< 0.2	0.0%	< 0.2	90%	70%	130%	71%	70%	130%	73%	70%	130%
Ethylbenzene (µg/L)	1		< 0.1	< 0.1	0.0%	< 0.1	105%	70%	130%	85%	70%	130%	89%	70%	130%
Xylenes (Total) (µg/L)	1		< 0.2	< 0.2	0.0%	< 0.2	94%	70%	130%	97%	70%	130%	100%	70%	130%
C6 - C10 (F1) (µg/L)	1		< 100	< 100	0.0%	< 100	89%	80%	120%	77%	70%	130%	70%	70%	130%
C>10 - C16 (F2) (µg/L)	1					< 100	102%	70%	130%	98%	70%	130%		70%	130%
C>16 - C34 (F3) (µg/L)	1					< 100	104%	70%	130%	107%	70%	130%		70%	130%
C>34 - C50 (F4) (µg/L)	1					< 100	106%	70%	130%	99%	70%	130%		70%	130%

Certified By:

AGAT QUALITY ASSURANCE REPORT (V1)

Page 8 of 12

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Quality Assurance

CLIENT NAME: THURBER ENGINEERING LTD

AGAT WORK ORDER: 09T331534

PROJECT NO:

ATTENTION TO: D. Elwood

Water Analysis

RPT Date: May 22, 2009			DUPLICATE			Method Blank	REFERENCE MATERIAL		METHOD BLANK SPIKE		MATRIX SPIKE	
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measure d Value	Acceptable Limits	Recovery	Acceptable Limits	Recovery	Acceptable Limits
								Lower		Upper		Lower

Water Quality Assessment

Electrical Conductivity (uS/cm)	1		2480	2470	0.4%	< 2	100%	80%	120%						
pH (NA)	1		7.93	7.93	0.0%	NA	100%	80%	120%						
Total Dissolved Solids (mg/L)	1	1309377	226	236	4.3%	< 20	102%	80%	120%						
Alkalinity (as CaCO3) (mg/L)	1		296	306	3.3%	< 5	100%	80%	120%	98%	80%	120%	96%	80%	120%
Fluoride (mg/L)	1	1309377	0.31	0.32	3.2%	< 0.05	101%	90%	110%	101%	90%	110%	98%	80%	120%
Chloride (mg/L)	1	1309377	9.77	9.664	1.1%	< 0.10	100%	90%	110%	95%	90%	110%	101%	80%	120%
Bromide (mg/L)	1	1309377	< 0.05	< 0.05	0.0%	< 0.05	104%	90%	110%	102%	90%	110%	103%	80%	120%
Nitrate as N (mg/L)	1	1309377	< 0.05	< 0.05	0.0%	< 0.05	89%	80%	120%	97%	90%	110%	102%	80%	120%
Nitrite as N (mg/L)	1	1309377	< 0.05	< 0.05	0.0%	< 0.05	NA	90%	110%	93%	90%	110%	81%	80%	120%
Sulphate (mg/L)	1	1309377	1.16	1.10	5.3%	< 0.10	96%	80%	120%	96%	90%	110%	100%	80%	120%
Ortho phosphate as P (mg/L)	1	1309377	< 0.10	< 0.10	0.0%	< 0.10	101%	90%	110%	97%	90%	110%	98%	80%	120%
Reactive Silica (mg/L)	1	1309641	4.21	4.31	2.3%	< 0.05	99%	90%	110%	99%	80%	120%	106%	80%	120%
Colour (TCU)	1	1309377	7	6	15.4%	< 5	100%	90%	110%						
Turbidity (NTU)	1		0.5	0.5	0.0%	< 0.5	101%	90%	110%				100%	90%	110%
Calcium (mg/L)	1		89.2	89.1	0.1%	< 0.05	101%	90%	110%	89%	80%	120%	108%	70%	130%
Magnesium (mg/L)	1		60.2	60.2	0.0%	< 0.05	99%	90%	110%	90%	90%	110%	109%	70%	130%
Sodium (mg/L)	1		17.9	17.9	0.0%	< 0.05	102%	90%	110%	103%	90%	110%	101%	70%	130%
Potassium (mg/L)	1		41.8	41.6	0.5%	< 0.05	102%	90%	110%	99%	90%	110%	109%	70%	130%
Aluminum (mg/L)	1		< 0.004	< 0.004	0.0%	< 0.004	109%	90%	110%	108%	80%	120%	96%	70%	130%
Arsenic (mg/L)	1		< 0.003	< 0.003	0.0%	< 0.003	99%	90%	110%	109%	90%	110%	113%	70%	130%
Barium (mg/L)	1		0.066	0.068	3.0%	< 0.002	100%	90%	110%	104%	90%	110%	101%	70%	130%
Boron (mg/L)	1		0.018	0.018	0.0%	< 0.010	106%	90%	110%	106%	80%	120%	107%	70%	130%
Cadmium (mg/L)	1		< 0.002	< 0.002	0.0%	< 0.002	97%	90%	110%	101%	90%	110%	117%	70%	130%
Chromium (mg/L)	1		< 0.003	< 0.003	0.0%	< 0.003	100%	90%	110%	104%	90%	110%	100%	70%	130%
Copper (mg/L)	1		< 0.003	< 0.003	0.0%	< 0.003	98%	90%	110%	104%	90%	110%	108%	70%	130%
Iron (mg/L)	1		< 0.010	< 0.010	0.0%	< 0.010	102%	90%	110%	103%	90%	110%	101%	70%	130%
Lead (mg/L)	1		< 0.002	< 0.002	0.0%	< 0.002	99%	90%	110%	104%	90%	110%	96%	70%	130%
Manganese (mg/L)	1		0.016	0.016	0.0%	< 0.002	98%	90%	110%	103%	80%	120%	102%	70%	130%
Mercury (mg/L)	1	1309377	< 0.0001	< 0.0001	0.0%	< 0.0001	102%	90%	110%	101%	70%	130%	105%	70%	130%
Molybdenum (mg/L)	1		< 0.002	< 0.002	0.0%	< 0.002	100%	90%	110%	105%	90%	110%	112%	70%	130%
Nickel (mg/L)	1		< 0.003	< 0.003	0.0%	< 0.003	100%	90%	110%	104%	90%	110%	109%	70%	130%
Selenium (mg/L)	1		< 0.004	< 0.004	0.0%	< 0.004	96%	90%	110%	97%	90%	110%	117%	70%	130%
Silver (mg/L)	1		< 0.002	< 0.002	0.0%	< 0.002	94%	90%	110%	102%	90%	110%	101%	70%	130%
Strontium (mg/L)	1		0.134	0.131	2.3%	< 0.005	100%	90%	110%	101%	70%	130%	102%	70%	130%

AGAT QUALITY ASSURANCE REPORT (V1)

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Quality Assurance

CLIENT NAME: THURBER ENGINEERING LTD

AGAT WORK ORDER: 09T331534

PROJECT NO:

ATTENTION TO: D. Elwood

Water Analysis (Continued)

RPT Date: May 22, 2009			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measure d Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Thallium (mg/L)	1		< 0.006	< 0.006	0.0%	< 0.006	99%	90%	110%	104%	90%	110%	99%	70%	130%
Titanium (mg/L)	1		< 0.002	< 0.002	0.0%	< 0.002	109%	90%	110%	105%	90%	110%	105%	70%	130%
Uranium (mg/L)	1		< 0.002	< 0.002	0.0%	< 0.002	103%	90%	110%	103%	90%	110%	105%	70%	130%
Vanadium (mg/L)	1		< 0.002	< 0.002	0.0%	< 0.002	97%	90%	110%	100%	90%	110%	103%	70%	130%
Zinc (mg/L)	1		0.046	0.046	0.0%	< 0.005	101%	90%	110%	112%	80%	120%	117%	70%	130%

Certified By:

Mike Munster

AGAT QUALITY ASSURANCE REPORT (V1)

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Method Summary

CLIENT NAME: THURBER ENGINEERING LTD

AGAT WORK ORDER: 09T331534

PROJECT NO:

ATTENTION TO: D. Elwood

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Microbiology Analysis			
Escherichia coli	MIC 0110	EPA 1604	Membrane Filtration
Fecal Coliform	MIC 0100	SM 9222 D	Membrane Filtration
Total Coliforms	MIC 0110	EPA 1604	Membrane Filtration
Heterotrophic Plate Count	MIC 0120	SM 9215C	Spread Plate
Trace Organics Analysis			
Benzene	VOL 5010	EPA SW-846 5230B & 8260	(P&T)GC/MS
Toluene	VOL 5010	EPA SW-846 5230B & 8260	(P&T)GC/MS
Ethylbenzene	VOL 5010	EPA SW-846 5230B & 8260	(P&T)GC/MS
Xylenes (Total)	VOL 5010	EPA SW-846 5230B & 8260	(P&T)GC/MS
C6 - C10 (F1)	VOL - 5010	MOE E3421	(P&T)GC/FID
C6 - C10 (F1 minus BTEX)	VOL - 5010	MOE E3421	(P&T)GC/FID
C>10 - C16 (F2)	VOL - 5010	MOE E3421	GC/FID
C6 - C16 (F1 + F2)	VOL - 5010	MOE E3421	GC/FID
C>16 - C34 (F3)	VOL - 5010	MOE E3421	GC/FID
C>34 - C50 (F4)	VOL - 5010	MOE E3421	GC/FID
C>16 - C50 (F3 + F4)	VOL - 5010	MOE E3421	GC/FID
Gravimetric Heavy Hydrocarbons	VOL - 5010	MOE E3421	(P&T)GC/FID



Method Summary

CLIENT NAME: THURBER ENGINEERING LTD

AGAT WORK ORDER: 09T331534

PROJECT NO:

ATTENTION TO: D. Elwood

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Electrical Conductivity	INOR 1016	SM 2510 B	EC METER
pH	INOR 1020	SM 4500-H+ B	PC TITRATE
Saturation pH		SM 2320 B	CALCULATION
Langlier Index			CALCULATION
Total Dissolved Solids	INOR 1028	SM 2540 C	BALANCE
Total Hardness (as CaCO ₃)		EPA SW-846 6010C & 200.7 & SM 2340 B	ICP/OES
% Difference/ Ion Balance		SM 1030 E	CALCULATION
Alkalinity (as CaCO ₃)	INOR 1000	SM 2320 B	PC TITRATE
Bicarbonate (as CaCO ₃)	INOR 1000	SM 2320 B	PC TITRATE
Carbonate (as CaCO ₃)	INOR 1000	SM 2320 B	PC TITRATE
Hydroxide (as CaCO ₃)	INOR 1000	SM 2320 B	PC TITRATE
Fluoride	INOR 1004	SM 4110 B	ION CHROMATOGRAPH
Chloride	INOR 1004	SM 4110 B	ION CHROMATOGRAPH
Bromide	INOR 1004	SM 4110 B	ION CHROMATOGRAPH
Nitrate as N	INOR 1004	SM 4110 B	ION CHROMATOGRAPH
Nitrite as N	INOR 1004	SM 4110 B	ION CHROMATOGRAPH
Sulphate	INOR 1004	SM 4110 B	ION CHROMATOGRAPH
Ortho phosphate as P	INOR 1004	SM 4110 B	ION CHROMATOGRAPH
Reactive Silica	INOR 1047	AQ2 EPA-122A & SM 4500 SiO ₂ D	AQ2 DISCRETE ANALYSER
Colour	INOR 1046	SM 2120 B	SPECTROPHOTOMETER
Turbidity	INOR 1044	SM 2130 B	NEPHELOMETER
Calcium	MET 1005	EPA SW-846 6010C & 200.7	ICP/OES
Magnesium	MET 1005	EPA SW-846 6010C & 200.7	ICP/OES
Sodium	MET 1005	EPA SW-846 6010C & 200.7	ICP/OES
Potassium	MET 1005	EPA SW-846 6010C & 200.7	ICP/OES
Aluminum	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Arsenic	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Barium	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Boron	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Cadmium	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Chromium	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Copper	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Iron	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Lead	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Manganese	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Mercury	MET 1000	EPA SW 846 7470 & 245.1	CVAAS
Molybdenum	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Nickel	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Selenium	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Silver	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Strontium	MET 1002	EPA SW-846 6020 & 200.8	ICP-MS
Thallium	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Titanium	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Uranium	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Vanadium	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Zinc	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS



Certificate of Analysis

AGAT WORK ORDER: 09T331359

PROJECT NO: 19-1605-95

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
L4Z 1Y2

TEL: (905) 712-5100
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www.agatlabs.com

CLIENT NAME: THURBER ENGINEERING LTD

ATTENTION TO: D. Elwood

Microbiological Analysis (water)					
DATE SAMPLED: May 11, 2009	DATE RECEIVED: May 11, 2009	DATE REPORTED: May 21, 2009	SAMPLE TYPE: Water		
Parameter	Unit	G / S	RDL	MW03 1308278	
Escherichia coli	CFU/100ml		1	<1	
Fecal Coliform	CFU/100ml		1	<1	
Total Coliforms	CFU/100mL		1	<1	
Heterotrophic Plate Count	CFU/ml		10	<10	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Certified By:

Elizabeth Polakowska



Certificate of Analysis

AGAT WORK ORDER: 09T331359

PROJECT NO: 19-1605-95

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FAX: (905) 712-5122
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5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
L4Z 1Y2

CLIENT NAME: THURBER ENGINEERING LTD

ATTENTION TO: D. Elwood

O. Reg 153 Petroleum Hydrocarbon F1 - F4 in Water

SAMPLE TYPE: Water

DATE RECEIVED: May 11, 2009

DATE REPORTED: May 21, 2009

DATE SAMPLED: May 11, 2009

Parameter	Unit	G / S	RDL	MW03 1308278
Benzene	µg/L		0.2	<0.2
Toluene	µg/L		0.2	<0.2
Ethylbenzene	µg/L		0.1	<0.1
Xylenes (Total)	µg/L		0.2	<0.2
C6 - C10 (F1)	µg/L		100	<100
C6 - C10 (F1 minus BTEX)	µg/L		100	<100
C>10 - C16 (F2)	µg/L		100	<100
C6 - C16 (F1 + F2)	µg/L		100	<100
C>16 - C34 (F3)	µg/L		100	<100
C>34 - C50 (F4)	µg/L		100	<100
C>16 - C50 (F3 + F4)	µg/L		100	<100
Gravimetric Heavy Hydrocarbons	µg/L		500	NA

Comments: RDL - Reported Detection Limit: G / S - Guideline / Standard

1308278

The C6-C10 fraction is calculated using Toluene response factor.

The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and nC34.

Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.

Total C6-C50 results are corrected for BTEX contributions.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 nC34 average.

Linearity is within 15%.

Extraction and holding times were met for this sample.

Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

NA = Not Applicable

Certified By:

Jody Takewell



5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
L4Z 1Y2

AGAT WORK ORDER: 09T331359

PROJECT NO: 19-1605-95

TEL: (905) 712-5100
FAX: (905) 712-5122
www.agatlabs.com

CLIENT NAME: THURBER ENGINEERING LTD

ATTENTION TO: D. Elwood

Water Quality Assessment

DATE SAMPLED: May 11, 2009	DATE RECEIVED: May 11, 2009	DATE REPORTED: May 21, 2009	SAMPLE TYPE: Water	
Parameter	Unit	G / S	RDL	MW03 1308278
Electrical Conductivity	uS/cm		2	1100
pH	NA		NA	8.08
Saturation pH				6.83
Langlier Index				1.25
Total Dissolved Solids	mg/L		20	768
Total Hardness (as CaCO3)	mg/L		10	416
% Difference/ Ion Balance			0.1	3.2
Alkalinity (as CaCO3)	mg/L		5	278
Bicarbonate (as CaCO3)	mg/L		5	278
Carbonate (as CaCO3)	mg/L		5	<5
Hydroxide (as CaCO3)	mg/L		5	<5
Fluoride	mg/L		0.05	<0.05
Chloride	mg/L		0.10	172
Bromide	mg/L		0.05	<0.05
Nitrate as N	mg/L		0.05	7.03
Nitrite as N	mg/L		0.05	<0.05
Sulphate	mg/L		0.10	21.7
Ortho phosphate as P	mg/L		0.10	<0.10
Reactive Silica	mg/L		0.05	12.4
Colour	TCU		5	<5
Turbidity	NTU		0.5	<0.5
Calcium	mg/L		0.05	146
Magnesium	mg/L		0.05	12.5
Sodium	mg/L		0.05	53.2
Potassium	mg/L		0.05	1.25
Aluminum	mg/L		0.004	0.474
Arsenic	mg/L		0.003	<0.003
Barium	mg/L		0.002	0.077
Boron	mg/L		0.010	<0.010
Cadmium	mg/L		0.002	<0.002
Chromium	mg/L		0.003	0.014

Mike Anderson



Certificate of Analysis

AGAT WORK ORDER: 09T331359

PROJECT NO: 19-1605-95

5835 COOPERS AVENUE
MISSISSAUGA, ONTARIO
L4Z 1Y2

TEL: (905) 712-5100
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CLIENT NAME: THURBER ENGINEERING LTD

ATTENTION TO: D. Elwood

Water Quality Assessment

SAMPLE TYPE: Water

DATE RECEIVED: May 11, 2009

DATE REPORTED: May 21, 2009

DATE SAMPLED: May 11, 2009

MW03

1308278

RDL

G / S

Unit

Parameter

Copper	mg/L	0.003	<0.003
Iron	mg/L	0.010	1.23
Lead	mg/L	0.002	0.003
Manganese	mg/L	0.002	0.268
Mercury	mg/L	0.0001	<0.0001
Molybdenum	mg/L	0.002	<0.002
Nickel	mg/L	0.003	<0.003
Selenium	mg/L	0.004	<0.004
Silver	mg/L	0.002	<0.002
Strontium	mg/L	0.005	0.541
Thallium	mg/L	0.006	<0.006
Titanium	mg/L	0.002	0.024
Uranium	mg/L	0.002	<0.002
Vanadium	mg/L	0.002	0.003
Zinc	mg/L	0.005	<0.005

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Certified By:

Mike Munro



Quality Assurance

CLIENT NAME: THURBER ENGINEERING LTD
PROJECT NO: 19-1605-95

AGAT WORK ORDER: 09T331359
ATTENTION TO: D. Elwood

Microbiology Analysis

RPT Date: May 21, 2009			DUPLICATE			Method Blank	REFERENCE MATERIAL		METHOD BLANK SPIKE		MATRIX SPIKE				
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measure d Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Microbiological Analysis (water)

Escherichia coli (CFU/100ml)	1		< 1	< 1	0.0%	< 1
Fecal Coliform (CFU/100ml)	1		< 1	< 1	0.0%	< 1
Total Coliforms (CFU/100mL)	1		< 1	< 1	0.0%	< 1
Heterotrophic Plate Count (CFU/ml)	1		< 10	< 10	0.0%	< 10

Certified By:

Elizabeth Potakowska

AGAT QUALITY ASSURANCE REPORT (V1)

Page 6 of 11

AGAT Laboratories is accredited to ISO/IEC 17025 by the Canadian Association for Analytical Laboratories (CALA) and/or Standards Council of Canada (SCC) for specific tests listed on the scope of accreditation. AGAT Laboratories (Mississauga) is also accredited by the Canadian Association for Analytical Laboratories (CALA) for specific drinking water tests. Accreditations are location and parameter specific. A complete listing of parameters for each location is available from www.cala.ca and/or www.scc.ca. The tests in this report may not necessarily be included in the scope of accreditation.



Quality Assurance

CLIENT NAME: THURBER ENGINEERING LTD

AGAT WORK ORDER: 09T331359

PROJECT NO: 19-1605-95

ATTENTION TO: D. Elwood

Trace Organics Analysis

RPT Date: May 21, 2009			DUPLICATE			Method Blank	REFERENCE MATERIAL		METHOD BLANK SPIKE		MATRIX SPIKE	
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measure d Value	Acceptable Limits	Recovery	Acceptable Limits	Recovery	Acceptable Limits
								Lower		Upper		Lower

O. Reg 153 Petroleum Hydrocarbon F1 - F4 in Water

Benzene (µg/L)	1		< 0.2	< 0.2	0.0%	< 0.2	98%	70%	130%	81%	70%	130%	84%	70%	130%
Toluene (µg/L)	1		< 0.2	< 0.2	0.0%	< 0.2	90%	70%	130%	71%	70%	130%	73%	70%	130%
Ethylbenzene (µg/L)	1		< 0.1	< 0.1	0.0%	< 0.1	105%	70%	130%	85%	70%	130%	89%	70%	130%
Xylenes (Total) (µg/L)	1		< 0.2	< 0.2	0.0%	< 0.2	94%	70%	130%	97%	70%	130%	100%	70%	130%
C6 - C10 (F1) (µg/L)	1		< 100	< 100	0.0%	< 100	89%	80%	120%	77%	70%	130%	70%	70%	130%
C>10 - C16 (F2) (µg/L)	1					< 100	100%	70%	130%	90%	70%	130%		70%	130%
C>16 - C34 (F3) (µg/L)	1					< 100	99%	70%	130%	108%	70%	130%		70%	130%
C>34 - C50 (F4) (µg/L)	1					< 100	98%	70%	130%	104%	70%	130%		70%	130%

Certified By:

Jacky Takewski

AGAT QUALITY ASSURANCE REPORT (V1)

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Quality Assurance

CLIENT NAME: THURBER ENGINEERING LTD

AGAT WORK ORDER: 09T331359

PROJECT NO: 19-1605-95

ATTENTION TO: D. Elwood

Water Analysis

RPT Date: May 21, 2009			DUPLICATE			Method Blank	REFERENCE MATERIAL		METHOD BLANK SPIKE		MATRIX SPIKE			
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measure d Value	Acceptable Limits	Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower		Upper	Lower		Upper	Lower

Water Quality Assessment

Electrical Conductivity (uS/cm)	1		449	453	0.9%	< 2	100%	80%	120%						
pH (NA)	1		8.32	8.33	0.1%	NA	100%	80%	120%						
Total Dissolved Solids (mg/L)	1		460	448	2.6%	< 20	102%	80%	120%						
Alkalinity (as CaCO3) (mg/L)	1		209	218	4.2%	< 5	99%	80%	120%	99%	80%	120%	97%	80%	120%
Fluoride (mg/L)	1		< 0.05	< 0.05	0.0%	< 0.05	102%	90%	110%	102%	90%	110%	92%	80%	120%
Chloride (mg/L)	1		91.2	90.0	1.3%	< 0.10	100%	90%	110%	99%	90%	110%	101%	80%	120%
Bromide (mg/L)	1		< 0.05	< 0.05	0.0%	< 0.05	103%	90%	110%	100%	90%	110%	99%	80%	120%
Nitrate as N (mg/L)	1		0.98	0.96	2.1%	< 0.05	96%	90%	110%	96%	90%	110%	96%	80%	120%
Nitrite as N (mg/L)	1		< 0.05	< 0.05	0.0%	< 0.05	NA	90%	110%	102%	90%	110%	87%	80%	120%
Sulphate (mg/L)	1		18.5	18.2	1.6%	< 0.10	92%	80%	120%	94%	90%	110%	96%	80%	120%
Ortho phosphate as P (mg/L)	1		< 0.10	< 0.10	0.0%	< 0.10	103%	90%	110%	99%	90%	110%	100%	80%	120%
Reactive Silica (mg/L)	1		16.9	17.3	2.3%	< 0.05	99%	90%	110%	99%	80%	120%	106%	80%	120%
Colour (TCU)	1		10	10	0.0%	< 5	100%	90%	110%						
Turbidity (NTU)	1		3.0	2.9	3.4%	< 0.5	101%	90%	110%				100%	90%	110%
Calcium (mg/L)	1	1308278	146	148	1.4%	< 0.05	103%	90%	110%	101%	90%	110%	95%	70%	130%
Magnesium (mg/L)	1	1308278	12.5	12.6	0.8%	< 0.05	101%	90%	110%	99%	90%	110%	101%	70%	130%
Sodium (mg/L)	1	1308278	53.2	53.0	0.4%	< 0.05	101%	90%	110%	97%	90%	110%	97%	70%	130%
Potassium (mg/L)	1	1308278	1.25	1.26	0.8%	< 0.05	99%	90%	110%	100%	90%	110%	106%	70%	130%
Aluminum (mg/L)	1		0.008	0.008	0.0%	< 0.004	104%	90%	110%	105%	80%	120%	87%	70%	130%
Arsenic (mg/L)	1		< 0.003	< 0.003	0.0%	< 0.003	97%	90%	110%	103%	90%	110%	104%	70%	130%
Barium (mg/L)	1		0.019	0.018	5.4%	< 0.002	96%	90%	110%	106%	90%	110%	106%	70%	130%
Boron (mg/L)	1		0.011	0.011	0.0%	< 0.010	110%	90%	110%	108%	90%	110%	96%	70%	130%
Cadmium (mg/L)	1		< 0.002	< 0.002	0.0%	< 0.002	102%	90%	110%	111%	80%	120%	108%	70%	130%
Chromium (mg/L)	1		< 0.003	< 0.003	0.0%	< 0.003	97%	90%	110%	108%	90%	110%	100%	70%	130%
Copper (mg/L)	1		< 0.003	< 0.003	0.0%	< 0.003	100%	90%	110%	106%	90%	110%	102%	70%	130%
Iron (mg/L)	1		< 0.010	< 0.010	0.0%	< 0.010	96%	90%	110%	105%	90%	110%	111%	70%	130%
Lead (mg/L)	1		< 0.002	< 0.002	0.0%	< 0.002	103%	90%	110%	107%	80%	120%	101%	70%	130%
Manganese (mg/L)	1		0.008	0.008	0.0%	< 0.002	95%	90%	110%	112%	80%	120%	105%	70%	130%
Mercury (mg/L)	1		< 0.0001	< 0.0001	0.0%	< 0.0001	103%	90%	110%	101%	70%	130%	91%	70%	130%
Molybdenum (mg/L)	1		< 0.002	< 0.002	0.0%	< 0.002	99%	90%	110%	113%	80%	120%	109%	70%	130%
Nickel (mg/L)	1		< 0.003	< 0.003	0.0%	< 0.003	102%	90%	110%	108%	90%	110%	106%	70%	130%
Selenium (mg/L)	1		< 0.004	< 0.004	0.0%	< 0.004	92%	90%	110%	100%	90%	110%	104%	70%	120%
Silver (mg/L)	1		< 0.002	< 0.002	0.0%	< 0.002	106%	90%	110%	105%	80%	120%	104%	70%	130%
Strontium (mg/L)	1		0.116	0.115	0.9%	< 0.005	99%	90%	110%	108%	90%	110%	98%	60%	140%

AGAT QUALITY ASSURANCE REPORT (V1)

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Quality Assurance

CLIENT NAME: THURBER ENGINEERING LTD
PROJECT NO: 19-1605-95

AGAT WORK ORDER: 09T331359
ATTENTION TO: D. Elwood

Water Analysis (Continued)

RPT Date: May 21, 2009			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measure d Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper
Thallium (mg/L)	1		< 0.006	< 0.006	0.0%	< 0.006	97%	90%	110%	108%	90%	110%	106%	70%	130%
Titanium (mg/L)	1		< 0.002	< 0.002	0.0%	< 0.002	102%	90%	110%	109%	90%	110%	110%	70%	130%
Uranium (mg/L)	1		< 0.002	< 0.002	0.0%	< 0.002	98%	90%	110%	108%	90%	110%	104%	70%	130%
Vanadium (mg/L)	1		< 0.002	< 0.002	0.0%	< 0.002	91%	90%	110%	103%	90%	110%	101%	70%	130%
Zinc (mg/L)	1		< 0.005	< 0.005	0.0%	< 0.005	102%	90%	110%	110%	80%	120%	115%	70%	130%

Certified By:

M. Munir

AGAT QUALITY ASSURANCE REPORT (V1)

Page 9 of 11

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Results relate only to the items tested



Method Summary

CLIENT NAME: THURBER ENGINEERING LTD

AGAT WORK ORDER: 09T331359

PROJECT NO: 19-1605-95

ATTENTION TO: D. Elwood

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Microbiology Analysis			
Escherichia coli	MIC 0110	EPA 1604	Membrane Filtration
Fecal Coliform	MIC 0100	SM 9222 D	Membrane Filtration
Total Coliforms	MIC 0110	EPA 1604	Membrane Filtration
Heterotrophic Plate Count	MIC 0120	SM 9215C	Spread Plate
Trace Organics Analysis			
Benzene	VOL 5010	EPA SW-846 5230B & 8260	(P&T)GC/MS
Toluene	VOL 5010	EPA SW-846 5230B & 8260	(P&T)GC/MS
Ethylbenzene	VOL 5010	EPA SW-846 5230B & 8260	(P&T)GC/MS
Xylenes (Total)	VOL 5010	EPA SW-846 5230B & 8260	(P&T)GC/MS
C6 - C10 (F1)	VOL - 5010	MOE E3421	(P&T)GC/FID
C6 - C10 (F1 minus BTEX)	VOL - 5010	MOE E3421	(P&T)GC/FID
C>10 - C16 (F2)	VOL - 5010	MOE E3421	GC/FID
C6 - C16 (F1 + F2)	VOL - 5010	MOE E3421	GC/FID
C>16 - C34 (F3)	VOL - 5010	MOE E3421	GC/FID
C>34 - C50 (F4)	VOL - 5010	MOE E3421	GC/FID
C>16 - C50 (F3 + F4)	VOL - 5010	MOE E3421	GC/FID
Gravimetric Heavy Hydrocarbons	VOL - 5010	MOE E3421	(P&T)GC/FID



Method Summary

CLIENT NAME: THURBER ENGINEERING LTD

AGAT WORK ORDER: 09T331359

PROJECT NO: 19-1605-95

ATTENTION TO: D. Elwood

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Water Analysis			
Electrical Conductivity	INOR 1016	SM 2510 B	EC METER
pH	INOR 1020	SM 4500-H+ B	PC TITRATE
Saturation pH		SM 2320 B	CALCULATION
Langlier Index			CALCULATION
Total Dissolved Solids	INOR 1028	SM 2540 C	BALANCE
Total Hardness (as CaCO ₃)		EPA SW-846 6010C & 200.7 & SM 2340 B	ICP/OES
% Difference/ Ion Balance		SM 1030 E	CALCULATION
Alkalinity (as CaCO ₃)	INOR 1000	SM 2320 B	PC TITRATE
Bicarbonate (as CaCO ₃)	INOR 1000	SM 2320 B	PC TITRATE
Carbonate (as CaCO ₃)	INOR 1000	SM 2320 B	PC TITRATE
Hydroxide (as CaCO ₃)	INOR 1000	SM 2320 B	PC TITRATE
Fluoride	INOR 1004	SM 4110 B	ION CHROMATOGRAPH
Chloride	INOR 1004	SM 4110 B	ION CHROMATOGRAPH
Bromide	INOR 1004	SM 4110 B	ION CHROMATOGRAPH
Nitrate as N	INOR 1004	SM 4110 B	ION CHROMATOGRAPH
Nitrite as N	INOR 1004	SM 4110 B	ION CHROMATOGRAPH
Sulphate	INOR 1004	SM 4110 B	ION CHROMATOGRAPH
Ortho phosphate as P	INOR 1004	SM 4110 B	ION CHROMATOGRAPH
Reactive Silica	INOR 1047	AQ2 EPA-122A & SM 4500 SiO ₂ D	AQ2 DISCRETE ANALYSER
Colour	INOR 1046	SM 2120 B	SPECTROPHOTOMETER
Turbidity	INOR 1044	SM 2130 B	NEPHELOMETER
Calcium	MET 1005	EPA SW-846 6010C & 200.7	ICP/OES
Magnesium	MET 1005	EPA SW-846 6010C & 200.7	ICP/OES
Sodium	MET 1005	EPA SW-846 6010C & 200.7	ICP/OES
Potassium	MET 1005	EPA SW-846 6010C & 200.7	ICP/OES
Aluminum	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Arsenic	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Barium	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Boron	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Cadmium	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Chromium	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Copper	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Iron	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Lead	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Manganese	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Mercury	MET 1000	EPA SW 846 7470 & 245.1	CVAAS
Molybdenum	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Nickel	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Selenium	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Silver	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Strontium	MET 1002	EPA SW-846 6020 & 200.8	ICP-MS
Thallium	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Titanium	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Uranium	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Vanadium	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS
Zinc	MET 1002	EPA SW-846 6020A & 200.8	ICP-MS



Certificate of Analysis

AGAT WORK ORDER: 09T340984

PROJECT NO: 19-1605-95

5835 COOPERS AVENUE
MISSISSAUGA, ON
CANADA L4Z 1Y2
PH: (905)712-5100
FAX: (905)712-5122
<http://www.agatlabs.com>

CLIENT NAME: THURBER ENGINEERING LTD

ATTENTION TO: D. Elwood

Microbiological Analysis (water)

DATE SAMPLED: Jun 30, 2009	DATE RECEIVED: Jun 30, 2009	DATE REPORTED: Jul 08, 2009	SAMPLE TYPE: Water
Parameter	Unit	G / S	RDL
Escherichia coli	CFU/100ml	1965	1656
Fecal Coliform	CFU/100ml	1376207	1376256
Total Coliforms	CFU/100mL	18574	1376272
Heterotrophic Plate Count	CFU/ml	<1	<1
		<1	<1
		<1	1
		<10	<10

Comments: RDL - Reported Detection Limit: G / S - Guideline / Standard

Certified By:

Elizabeth Rotkowski



Certificate of Analysis

AGAT WORK ORDER: 09T340984

PROJECT NO: 19-1605-95

5835 COOPERS AVENUE
MISSISSAUGA, ON
CANADA L4Z 1Y2
PH: (905)712-5100
FAX: (905)712-5122
http://www.agatlabs.com

CLIENT NAME: THURBER ENGINEERING LTD

ATTENTION TO: D. Elwood

O. Reg 153 Petroleum Hydrocarbon F1 - F4 in Water

DATE SAMPLED: Jun 30, 2009	DATE RECEIVED: Jun 30, 2009				DATE REPORTED: Jul 08, 2009		SAMPLE TYPE: Water
Parameter	Unit	G / S	RDL	1965 1376207	1656 1376256	18574 1376272	
Benzene	µg/L	5.0	0.2	<0.2	<0.2	<0.2	
Toluene	µg/L	24	0.2	<0.2	<0.2	<0.2	
Ethylbenzene	µg/L	2.4	0.1	<0.1	<0.1	<0.1	
Xylenes (Total)	µg/L	300	0.2	<0.2	<0.2	<0.2	
C6 - C10 (F1)	µg/L		100	<100	<100	<100	
C6 - C10 (F1 minus BTEX)	µg/L		100	<100	<100	<100	
C>10 - C16 (F2)	µg/L		100	<100	<100	<100	
C6 - C16 (F1 + F2)	µg/L	1000	100	<100	<100	<100	
C>16 - C34 (F3)	µg/L		100	<100	<100	<100	
C>34 - C50 (F4)	µg/L		100	<100	<100	<100	
C>16 - C50 (F3 + F4)	µg/L	1000	100	<100	<100	<100	
Gravimetric Heavy Hydrocarbons	µg/L		500	NA	NA	NA	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard; Refers to T2(PGW)

1376207-1376272 The C6-C10 fraction is calculated using Toluene response factor.

The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.

Total C6-C50 results are corrected for BTEX contributions.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 nC34 average.

Linearity is within 15%.

Extraction and holding times were met for this sample.

Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

NA = Not Applicable

Certified By:



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CLIENT NAME: THURBER ENGINEERING LTD

ATTENTION TO: D. Elwood

Water Quality Assessment

DATE SAMPLED: Jun 30, 2009		DATE RECEIVED: Jun 30, 2009			DATE REPORTED: Jul 08, 2009		SAMPLE TYPE: Water	
Parameter	Unit	G / S	RDL	1965 1376207	1656 1376256	18574 1376272		
Electrical Conductivity	uS/cm		2	526	349	379		
pH	NA		NA	8.10	8.23	8.20		
Saturation pH				7.09	7.37	7.23		
Langlier Index				1.01	0.86	0.97		
Total Dissolved Solids	mg/L		20	348	204	224		
Total Hardness (as CaCO3)	mg/L		10	283	184	211		
% Difference/ Ion Balance			0.1	1.8	5.2	4.9		
Alkalinity (as CaCO3)	mg/L		5	209	157	191		
Bicarbonate (as CaCO3)	mg/L		5	209	157	191		
Carbonate (as CaCO3)	mg/L		5	<5	<5	<5		
Hydroxide (as CaCO3)	mg/L		5	<5	<5	<5		
Fluoride	mg/L		0.05	<0.05	0.08	0.06		
Chloride	mg/L	250	0.10	19.3	4.82	0.71		
Bromide	mg/L		0.05	<0.05	<0.05	<0.05		
Nitrate as N	mg/L	10	0.05	<0.05	<0.05	<0.05		
Nitrite as N	mg/L	1	0.05	<0.05	<0.05	<0.05		
Sulphate	mg/L		0.10	48.2	24.0	18.8		
Ortho phosphate as P	mg/L		0.10	<0.10	<0.10	<0.10		
Ammonia as N	mg/L		0.02	0.05	0.07	0.10		
Total Organic Carbon	mg/L		0.5	1.0	0.9	1.0		
Reactive Silica	mg/L		0.05	21.2	9.70	17.3		
Colour	TCU		5	<5	<5	<5		
Turbidity	NTU		0.5	7.9	1.7	3.8		
Calcium	mg/L		0.05	77.3	37.3	56.4		
Magnesium	mg/L		0.05	21.8	22.1	17.0		
Sodium	mg/L	200	0.05	5.84	11.1	9.63		
Potassium	mg/L		0.05	1.20	1.12	0.94		
Aluminum	mg/L		0.004	0.043	0.011	0.037		
Arsenic	mg/L	0.25	0.003	<0.003	0.004	<0.003		
Barium	mg/L	1.0	0.002	0.109	0.130	0.095		
Boron	mg/L	5.0	0.010	<0.010	0.022	0.026		

Certified By:

Elizabeth Rotkowska



Certificate of Analysis

AGAT Laboratories

AGAT WORK ORDER: 09T340984

PROJECT NO: 19-1605-95

5835 COOPERS AVENUE
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CLIENT NAME: THURBER ENGINEERING LTD

ATTENTION TO: D. Elwood

Water Quality Assessment

DATE SAMPLED: Jun 30, 2009		DATE RECEIVED: Jun 30, 2009			DATE REPORTED: Jul 08, 2009		SAMPLE TYPE: Water
Parameter	Unit	G / S	RDL	1965 1376207	1656 1376256	18574 1376272	
Cadmium	mg/L	0.005	0.002	<0.002	<0.002	<0.002	
Chromium	mg/L	0.05	0.003	0.003	<0.003	<0.003	
Copper	mg/L	0.023	0.003	0.176	<0.003	<0.003	
Iron	mg/L		0.010	0.716	0.387	0.594	
Lead	mg/L	10	0.002	0.002	<0.002	<0.002	
Manganese	mg/L		0.002	0.046	0.018	0.050	
Mercury	mg/L	0.12	0.0001	<0.0001	<0.0001	<0.0001	
Molybdenum	mg/L	7.3	0.002	<0.002	<0.002	<0.002	
Nickel	mg/L	0.1	0.003	<0.003	<0.003	<0.003	
Selenium	mg/L	0.01	0.004	<0.004	<0.004	<0.004	
Silver	mg/L	0.0012	0.002	<0.002	<0.002	<0.002	
Strontium	mg/L		0.005	0.234	0.279	0.224	
Thallium	mg/L	2.0	0.006	<0.006	<0.006	<0.006	
Titanium	mg/L		0.002	<0.002	<0.002	<0.002	
Uranium	mg/L		0.002	<0.002	<0.002	<0.002	
Vanadium	mg/L	0.200	0.002	<0.002	<0.002	<0.002	
Zinc	mg/L	1.1	0.005	0.062	0.022	<0.005	

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard; Refers to T2(PGW)

Certified By:

Elizabeth Rotkowska



Guideline Violation

AGAT WORK ORDER: 09T340984
PROJECT NO: 19-1605-95

5835 COOPERS AVENUE
MISSISSAUGA, ON
CANADA L4Z 1Y2

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<http://www.agatlabs.com>

CLIENT NAME: THURBER ENGINEERING LTD

ATTENTION TO: D. Elwood

SAMPLE ID	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
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1376207	T2(PGW)	Water Quality Assessment	Copper	0.023	0.176
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Certificate of Analysis

AGAT WORK ORDER: 09T339862

PROJECT NO: 19-1605-95

5835 COOPERS AVENUE
MISSISSAUGA, ON
CANADA L4Z 1Y2

PH: (905)712-5100
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CLIENT NAME: THURBER ENGINEERING LTD

ATTENTION TO: D. Elwood

Microbiological Analysis (water)									
DATE SAMPLED: Jun 24, 2009		DATE RECEIVED: Jun 24, 2009		DATE REPORTED: Jul 06, 2009		SAMPLE TYPE: Water			
Parameter	Unit	G / S	RDL	2203 1367357	20086 1367368	2176 1367379	2088 1367390	19601 1367407	20089 1367418
Escherichia coli	CFU/100ml	1	1	1	<1	<1	<1	<1	<1
Fecal Coliform	CFU/100ml	1	1	1	<1	<1	<1	<1	<1
Total Coliforms	CFU/100mL	1	1	124	<1	<1	<1	<1	<1
Heterotrophic Plate Count	CFU/ml		10	30	20	810	<10	<10	<10

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard; Refers to SDWA -Schedule 23

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 09T339862

PROJECT NO: 19-1605-95

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CLIENT NAME: THURBER ENGINEERING LTD

ATTENTION TO: D. Elwood

O. Reg 153 Petroleum Hydrocarbon F1 - F4 in Water

DATE SAMPLED: Jun 24, 2009		DATE RECEIVED: Jun 24, 2009			DATE REPORTED: Jul 06, 2009			SAMPLE TYPE: Water	
Parameter	Unit	G / S	RDL	2203 1367357	20086 1367368	2176 1367379	2088 1367390	19601 1367407	20089 1367418
Benzene	µg/L	5.0	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Toluene	µg/L	24	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Ethylbenzene	µg/L	2.4	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Xylenes (Total)	µg/L	300	0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
C6 - C10 (F1)	µg/L		100	<100	<100	<100	<100	<100	<100
C6 - C10 (F1 minus BTEX)	µg/L		100	<100	<100	<100	<100	<100	<100
C>10 - C16 (F2)	µg/L		100	<100	<100	<100	<100	<100	<100
C6 - C16 (F1 + F2)	µg/L	1000	100	<100	<100	<100	<100	<100	<100
C>16 - C34 (F3)	µg/L		100	<100	<100	<100	<100	<100	<100
C>34 - C50 (F4)	µg/L		100	<100	<100	<100	<100	<100	<100
C>16 - C50 (F3 + F4)	µg/L	1000	100	<100	<100	<100	<100	<100	<100
Gravimetric Heavy Hydrocarbons	µg/L		500	NA	NA	NA	NA	NA	NA

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard; Refers to T2(PGW)

1367357-1367418 The C6-C10 fraction is calculated using Toluene response factor.

The C10 - C16, C16 - C34, and C34 - C50 fractions are calculated using the average response factor for n-C10, n-C16, and n-C34.

Gravimetric Heavy Hydrocarbons are not included in the Total C16 - C50 and are only determined if the chromatogram of the C34 - C50 Hydrocarbons indicated that hydrocarbons >C50 are present.

Total C6-C50 results are corrected for BTEX contributions.

This method complies with the Reference Method for the CWS PHC and is validated for use in the laboratory.

nC6 and nC10 response factors are within 30% of Toluene response factor.

nC10, nC16 and nC34 response factors are within 10% of their average.

C50 response factor is within 70% of nC10 + nC16 nC34 average.

Linearity is within 15%.

Extraction and holding times were met for this sample.

Fractions 1-4 are quantified with the contribution of PAHs. Under Ontario Regulation 153, results are considered valid without determining the PAH contribution if not requested by the client.

NA = Not Applicable

Certified By:

Judy Tokumaki



AGAT Laboratories

Certificate of Analysis

AGAT WORK ORDER: 09T339862

PROJECT NO: 19-1605-95

5835 COOPERS AVENUE
MISSISSAUGA, ON
CANADA L4Z 1Y2

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http://www.agatlabs.com

CLIENT NAME: THURBER ENGINEERING LTD

ATTENTION TO: D. Elwood

Water Quality Assessment

DATE SAMPLED: Jun 24, 2009			DATE RECEIVED: Jun 24, 2009			DATE REPORTED: Jul 06, 2009			SAMPLE TYPE: Water		
Parameter	Unit	G / S	RDL	2203 1367357	20086 1367368	2176 1367379	2088 1367390	19601 1367407	20089 1367418		
Electrical Conductivity	uS/cm		2	582	2130	<2	522	460	387		
pH	NA		NA	8.03	7.96	6.00	8.18	8.15	8.35		
Saturation pH				6.88	6.63	11.5	10.0	7.23	10.0		
Langlier Index				1.15	1.33	-5.48	-1.83	0.92	-1.68		
Total Dissolved Solids	mg/L		20	372	1330	20	310	262	240		
Total Hardness (as CaCO3)	mg/L		10	327	554	<10	<10	171	<10		
% Difference/ Ion Balance			0.1	3.7	1.9	100	1.8	1.8	2.0		
Alkalinity (as CaCO3)	mg/L		5	292	339	<5	216	230	192		
Bicarbonate (as CaCO3)	mg/L		5	292	339	<5	216	230	189		
Carbonate (as CaCO3)	mg/L		5	<5	<5	<5	<5	<5	<5		
Hydroxide (as CaCO3)	mg/L		5	<5	<5	<5	<5	<5	<5		
Fluoride	mg/L		0.05	<0.05	<0.25	<0.05	0.06	0.13	0.13		
Chloride	mg/L	250	0.10	11.5	516	<0.10	22.2	21.9	5.43		
Bromide	mg/L		0.05	<0.05	<0.25	<0.05	<0.05	<0.05	<0.05		
Nitrate as N	mg/L	10	0.05	0.66	15.1	<0.05	0.06	<0.05	<0.05		
Nitrite as N	mg/L	1	0.05	<0.05	<0.25	<0.05	<0.05	<0.05	<0.05		
Sulphate	mg/L		0.10	16.9	55.4	<0.10	30.2	<0.10	11.5		
Ortho phosphate as P	mg/L		0.10	<0.10	<0.50	<0.10	<0.10	0.83	0.10		
Total Phosphorus	mg/L		0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.14		
Ammonia as N	mg/L		0.05	<0.05	<0.05	0.08	<0.05	<0.05	0.19		
Total Organic Carbon	mg/L		0.5	1.9	1.1	1.5	1.0	2.3	1.5		
Reactive Silica	mg/L		0.05	12.5	18.8	0.80	19.9	23.2	18.2		
Colour	TCU		5	<5	<5	<5	<5	<5	5		
Turbidity	NTU		0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5		
Calcium	mg/L		0.05	114	179	<0.05	<0.05	45.2	<0.05		
Magnesium	mg/L		0.05	10.2	26.0	<0.05	<0.05	14.2	<0.05		
Sodium	mg/L	200	0.05	11.5	266	<0.05	133	36.3	101		
Potassium	mg/L		0.05	1.38	2.01	<0.05	0.22	1.13	0.15		
Aluminum	mg/L		0.004	0.022	0.004	<0.004	<0.004	<0.004	<0.004		
Arsenic	mg/L	0.25	0.003	<0.003	<0.003	0.006	0.003	<0.003	<0.003		
Barium	mg/L	1.0	0.002	0.025	0.161	0.031	<0.002	0.070	<0.002		

Mike Munro

Certified By:



Certificate of Analysis

AGAT WORK ORDER: 09T339862
PROJECT NO: 19-1605-95

5835 COOPERS AVENUE
MISSISSAUGA, ON
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CLIENT NAME: THURBER ENGINEERING LTD

ATTENTION TO: D. Elwood

Water Quality Assessment

DATE SAMPLED: Jun 24, 2009			DATE RECEIVED: Jun 24, 2009				DATE REPORTED: Jul 06, 2009				SAMPLE TYPE: Water						
Parameter	Unit	G / S	RDL	2203	1367357	RDL	20086	1367368	RDL	2176	1367379	2088	1367390	19601	1367407	20089	1367418
Boron	mg/L	5.0	0.010	0.014	0.010	0.010	0.042	0.042	0.010	0.061	0.018	0.045	0.046				
Cadmium	mg/L	0.005	0.002	<0.002	0.002	0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002				
Chromium	mg/L	0.05	0.003	0.010	0.003	0.003	0.016	0.016	0.003	0.004	0.006	0.005	0.004				
Copper	mg/L	0.023	0.003	0.017	0.003	0.003	0.103	0.103	0.003	0.019	0.005	0.041	<0.003				
Iron	mg/L		0.010	<0.010	0.010	0.010	<0.010	<0.010	0.010	<0.010	<0.010	0.120	<0.010				
Lead	mg/L	10	0.002	<0.002	0.002	0.002	0.006	0.006	0.002	0.004	<0.002	<0.002	<0.002				
Manganese	mg/L		0.002	0.005	0.002	0.002	<0.002	<0.002	0.002	0.008	<0.002	0.029	<0.002				
Mercury	mg/L	0.12	0.0001	<0.0001	0.0001	0.0001	<0.0001	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001				
Molybdenum	mg/L	7.3	0.002	<0.002	0.002	0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002				
Nickel	mg/L	0.1	0.003	<0.003	0.003	0.003	<0.003	<0.003	0.003	<0.003	<0.003	<0.003	<0.003				
Selenium	mg/L	0.01	0.004	<0.004	0.004	0.004	<0.004	<0.004	0.004	<0.004	<0.004	<0.004	<0.004				
Silver	mg/L	0.0012	0.002	<0.002	0.002	0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002				
Strontium	mg/L		0.005	0.194	0.005	0.005	0.364	0.364	0.005	0.279	<0.005	0.250	<0.005				
Thallium	mg/L	2.0	0.006	<0.006	0.006	0.006	<0.006	<0.006	0.006	<0.006	<0.006	<0.006	<0.006				
Titanium	mg/L		0.002	<0.002	0.002	0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002				
Uranium	mg/L		0.002	<0.002	0.002	0.002	<0.002	<0.002	0.002	<0.002	<0.002	<0.002	<0.002				
Vanadium	mg/L	0.200	0.002	0.003	0.002	0.002	0.005	0.005	0.002	<0.002	<0.002	<0.002	<0.002				
Zinc	mg/L	1.1	0.005	0.009	0.005	0.005	0.048	0.048	0.005	0.108	<0.005	0.303	<0.005				

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard; Refers to T2(PGW)

1367379

Note: The value reported for the Ion Balance is high due to absence of any detectable amount of major anions & cations in the sample. The sample appears to be a Blank.

Certified By:

Mark M. M. M.



Guideline Violation

AGAT WORK ORDER: 09T339862
PROJECT NO: 19-1605-95

5835 COOPERS AVENUE
MISSISSAUGA, ON
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CLIENT NAME: THURBER ENGINEERING LTD

ATTENTION TO: D. Elwood

SAMPLE ID	GUIDELINE	ANALYSIS PACKAGE	PARAMETER	GUIDEVALUE	RESULT
1367357	SDWA -Schedule 23	Microbiological Analysis (water)	Total Coliforms	1	124
1367368	T2(PGW)	Water Quality Assessment	Chloride	250	516
1367368	T2(PGW)	Water Quality Assessment	Copper	0.023	0.103
1367368	T2(PGW)	Water Quality Assessment	Nitrate as N	10	15.1
1367368	T2(PGW)	Water Quality Assessment	Sodium	200	266
1367407	T2(PGW)	Water Quality Assessment	Copper	0.023	0.041

APPENDIX J

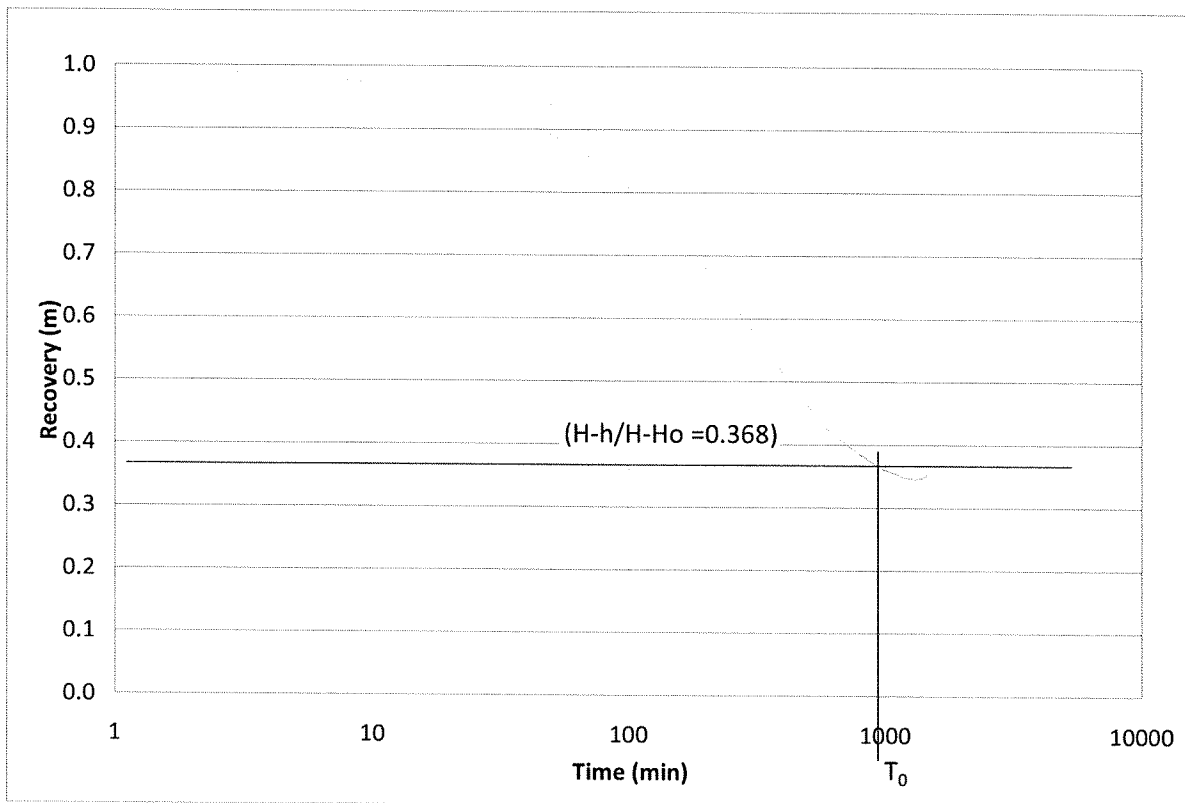
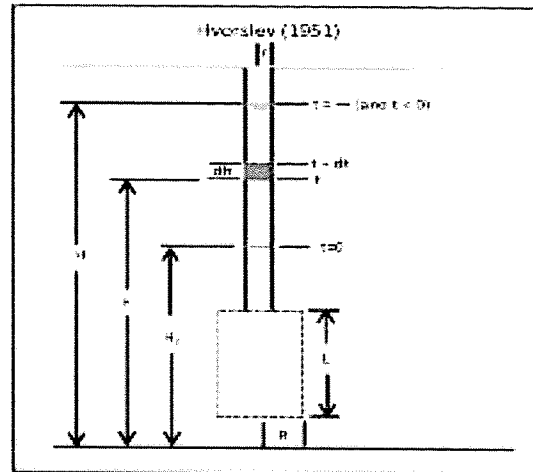
IN-SITU HYDRAULIC CONDUCTIVITY TEST RESULTS

MW08-01 (Queensville Sideroad) Rising Head Test
Hvorslev Analysis (1951)

INPUT	
Screen Length (L)	3.05 m
Radius of Casing (r)	0.025 m
Radius of Annulus (R)	0.05 m
L/R	61
Depth to Datum	9 m
Initial Water Level (H ₀)	13.6219 m
Final Water Level (H)	15.2013 m
H-H ₀	1.5794 m
T ₀	15.230 hrs

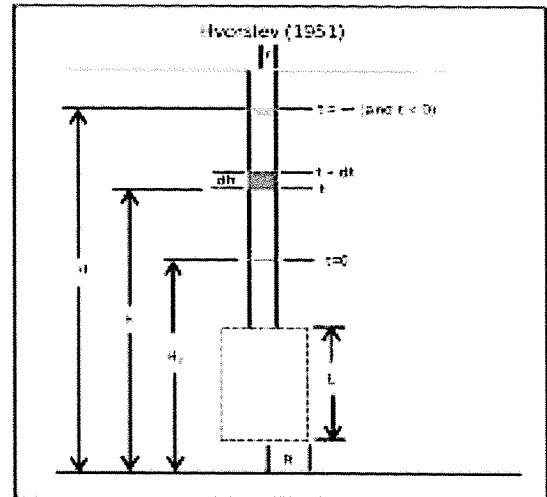
$$K = \frac{r^2 \ln(L/R)}{2LT_0}$$

$$K = 7.68E-09 \text{ m/s}$$



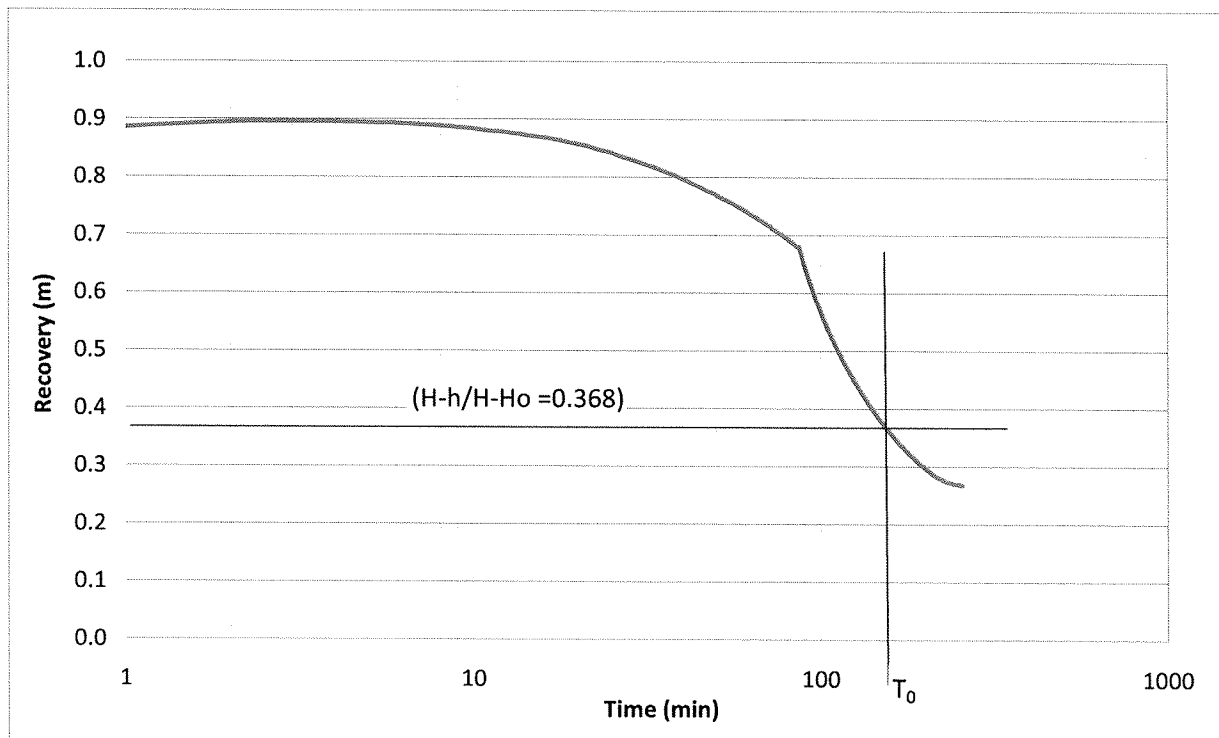
MW08-02 (Queensville Sideroad) Rising Head Test
Hvorslev Analysis (1951)

INPUT	
Screen Length (L)	3.05 m
Radius of Casing (r)	0.025 m
Radius of Annulus (R)	0.05 m
L/R	61
Depth to Datum	9 m
Initial Water Level (H ₀)	12.5553 m
Final Water Level (H)	13.7526 m
H-H ₀	1.1973 m
T ₀	2.567 hrs



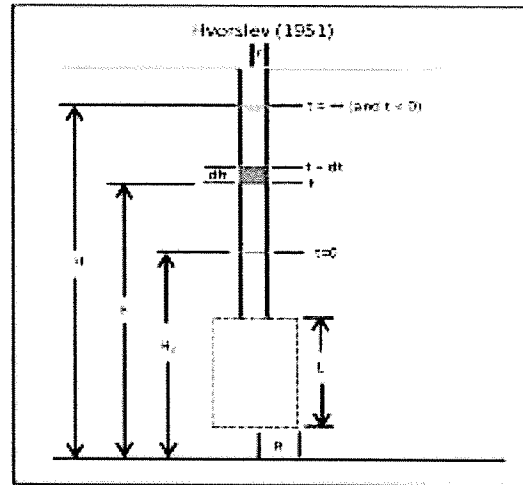
$$K = \frac{r^2 \ln(L/R)}{2LT_0}$$

$$K = 4.56E-08 \text{ m/s}$$



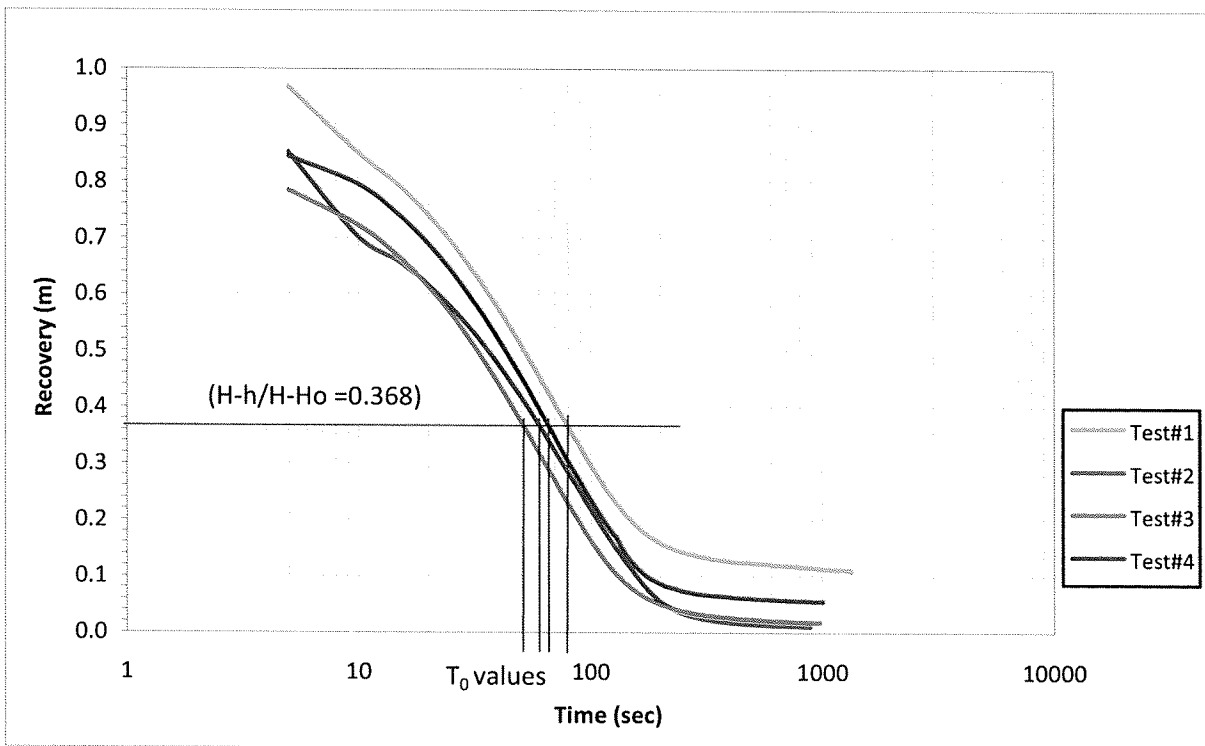
MW08-03 (Doane Road) Rising Head Tests Hvorslev Analysis (1951)

INPUT	
Screen Length (L)	1.52 m
Radius of Casing (r)	0.025 m
Radius of Annulus (R)	0.05 m
L/R	30.4
Depth to Datum	25 m
Initial Water Level (H ₀)	26.22 m
Final Water Level (H)	23.78 m
H-H ₀	-2.44 m
Test #1 T ₀	0.020 hrs
Test #2 T ₀	0.017 hrs
Test #3 T ₀	0.014 hrs
Test #4 T ₀	0.018 hrs



$$K = \frac{r^2 \ln(L/R)}{2LT_0}$$

Test#1	K = 9.8E-06 m/s
Test#2	K = 1.5E-05 m/s
Test#3	K = 1.4E-05 m/s
Test#4	K = 1.1E-05 m/s



MW08-01 (Queensville Sideroad) Rising Head Test Bouwer Rice Analysis

INPUT

Construction:	
Casing dia. (d_c)	0.05 Meter
Annulus dia. (d_w)	0.1 Meter
Screen Length (L)	3.05 Meter
Depths to:	
water level (DTW)	1.3 Meter
top of screen (TOS)	4.5 Meter
Base of Aquifer (DTB)	9 Meter
Annular Fill:	
across screen --	Coarse Sand
above screen --	Bentonite
Aquifer Material --	
Till	

COMPUTED

$L_{wetterd}$	3.05 Meter
D =	7.7 Meter
H =	6.25 Meter
L/r_w =	61.00
y_0 -DISPLACEMENT =	131.40 cm
y_0 -SLUG =	154.00 cm
From look-up table using L/r_w	
Partial penetrate A =	3.442
B =	0.557
$\ln(Re/r_w)$ =	3.175
Re =	3.93 cm
Slope =	$6.69E-06 \log_{10}/\text{sec}$
$t_{90\% \text{ recovery}}$ =	149400 sec

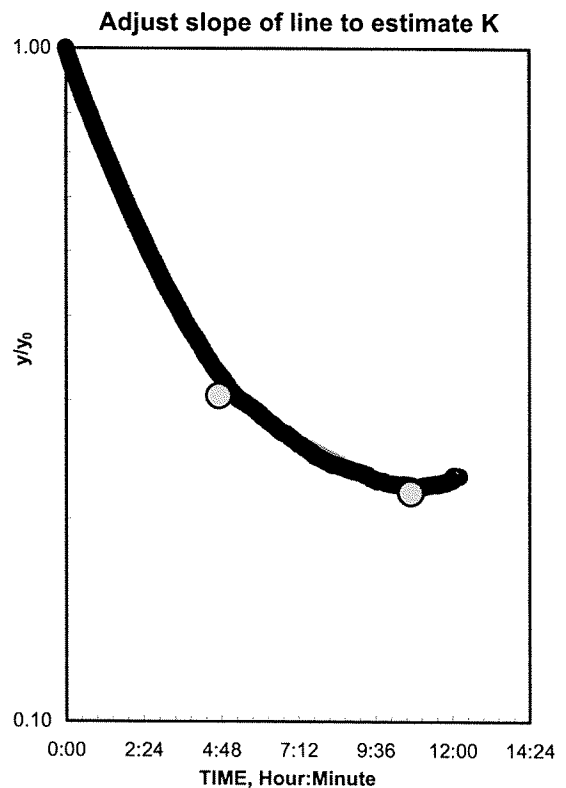
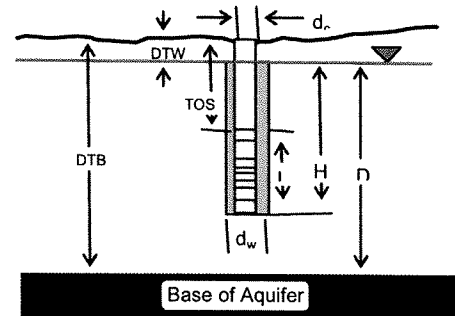
Input is consistent.

K = 5E-07 cm/Second

Local ID: DEE

Date: 05/15/2008

Time: 0:01



REMARKS:

MW08-02 (Queensville Sideroad) Rising Head Test Bouwer Rice Analysis

INPUT

Construction:	
Casing dia. (d_c)	0.05 Meter
Annulus dia. (d_w)	0.1 Meter
Screen Length (L)	3.05 Meter
Depths to:	
water level (DTW)	-0.52 Meter
top of screen (TOS)	4.5 Meter
Base of Aquifer (DTB)	10 Meter
Annular Fill:	
across screen --	Coarse Sand
above screen --	Bentonite
Aquifer Material --	
Till	

COMPUTED

L_{wetted}	3.05 Meter
D =	10.52 Meter
H =	8.07 Meter
L/r_w	61.00
y_0 -DISPLACEMENT =	104.47 cm
y_0 -SLUG =	120.00 cm
From look-up table using L/r_w	
Partial penetrate A =	3.442
B =	0.557
$\ln(Re/r_w)$ =	3.243
Re =	4.21 cm
Slope =	$6.81E-05 \log_{10}/\text{sec}$
$t_{90\%}$ recovery =	14691 sec

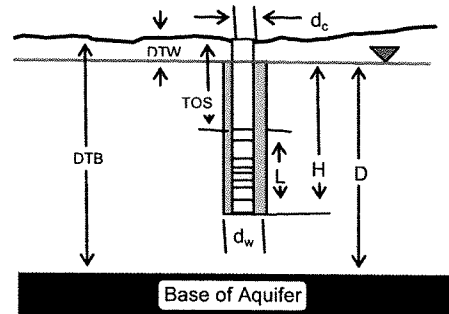
Input is consistent.

K =	5.2E-06 cm/Second
-----	-------------------

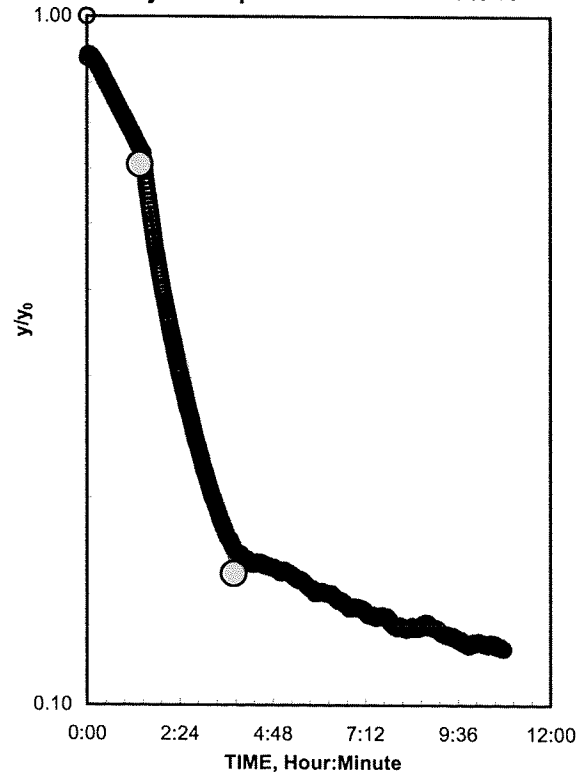
Local ID: DEE

Date: 05/15/2008

Time: 0:01



Adjust slope of line to estimate K



REMARKS:

Bouwer and Rice analysis of slug test, WRR 1976

WELL ID: MW08-3 Test 1

Engineer: DEE

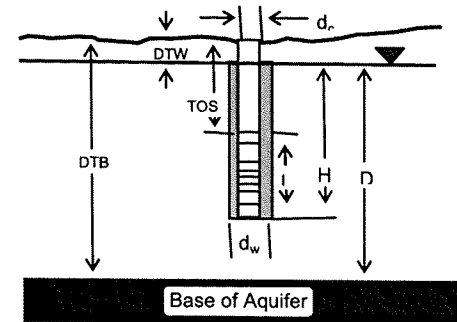
Date: 05/20/2009

INPUT

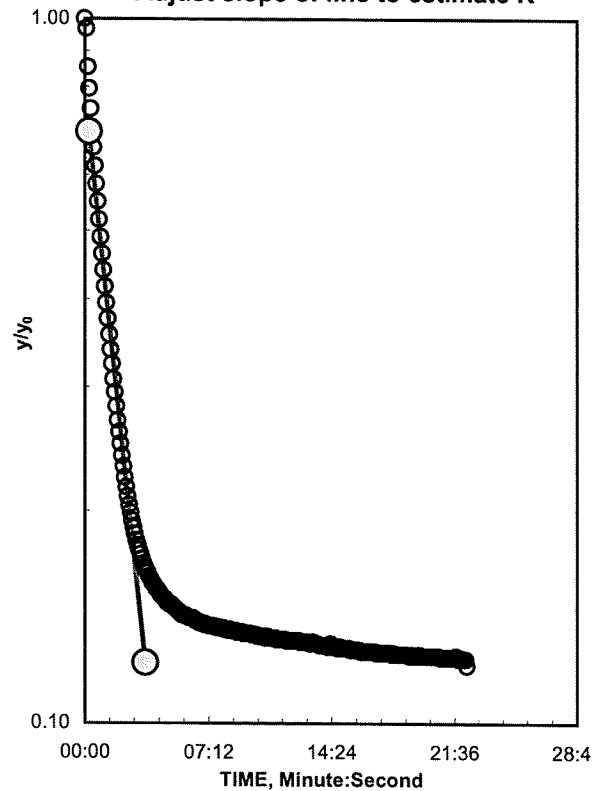
Construction:	
Casing dia. (d_c)	0.05 Meter
Annulus dia. (d_w)	0.1 Meter
Screen Length (L)	1.5 Meter
Depths to:	
water level (DTW)	1.3 Meter
top of screen (TOS)	6.1 Meter
Base of Aquifer (DTB)	8.1 Meter
Annular Fill:	
across screen --	Coarse Sand
above screen --	Bentonite
Aquifer Material --	
Fine Sand	

COMPUTED

L_{wetted}	1.5 Meter
D =	6.8 Meter
H =	6.3 Meter
L/r_w =	30.00
Y_0 -DISPLACEMENT =	220.06 cm
Y_0 -SLUG =	216.86 cm
From look-up table using L/r_w	
Partial penetrate A =	2.514
B =	0.414
$\ln(Re/r_w)$ =	2.915
Re =	3.03 cm
Slope =	0.003828 \log_{10}/sec
$t_{90\%}$ recovery =	261 sec
Input is consistent.	
K = 0.00053 cm/Second	



Adjust slope of line to estimate K



Bouwer and Rice analysis of slug test, \

WELL ID: MW08-3 Test 2

Engineer: DEE

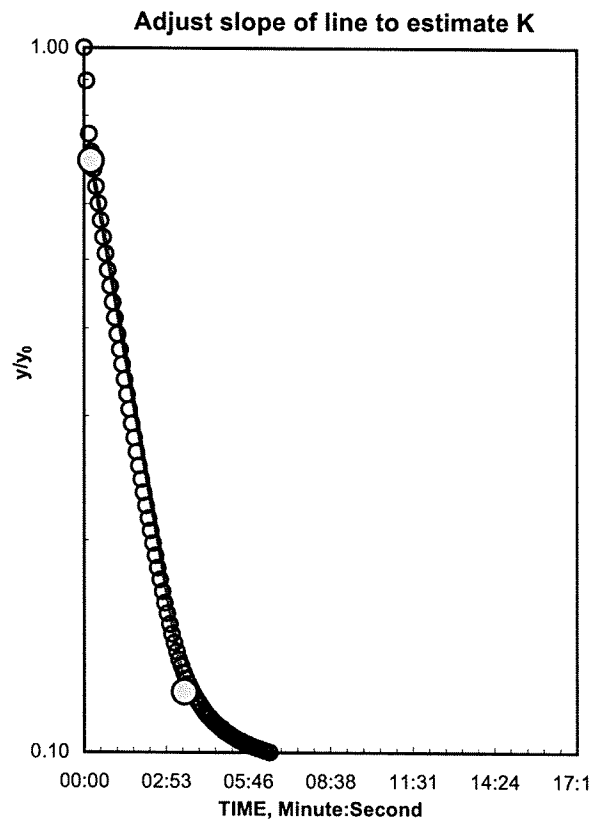
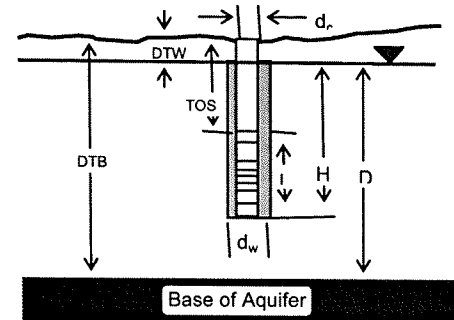
Date: 05/20/2009

INPUT

Construction:	
Casing dia. (d_c)	0.05 Meter
Annulus dia. (d_w)	0.1 Meter
Screen Length (L)	1.5 Meter
Depths to:	
water level (DTW)	1.3 Meter
top of screen (TOS)	6.1 Meter
Base of Aquifer (DTB)	8.1 Meter
Annular Fill:	
across screen --	Coarse Sand
above screen --	Bentonite
Aquifer Material --	
Fine Sand	

COMPUTED

L_{wetted}	1.5 Meter
$D =$	6.8 Meter
$H =$	6.3 Meter
$L/r_w =$	30.00
Y_0 -DISPLACEMENT =	524.54 cm
Y_0 -SLUG =	481.46 cm
From look-up table using L/r_w	
Partial penetrate A =	2.514
B =	0.414
$\ln(Re/r_w) =$	2.915
Re =	3.03 cm
Slope =	0.003828 \log_{10}/sec
$t_{90\%}$ recovery =	261 sec
Input is consistent.	
K = 0.00053 cm/Second	



Bouwer and Rice analysis of slug test, \

WELL ID: MW08-3 Test 3

Engineer: DEE

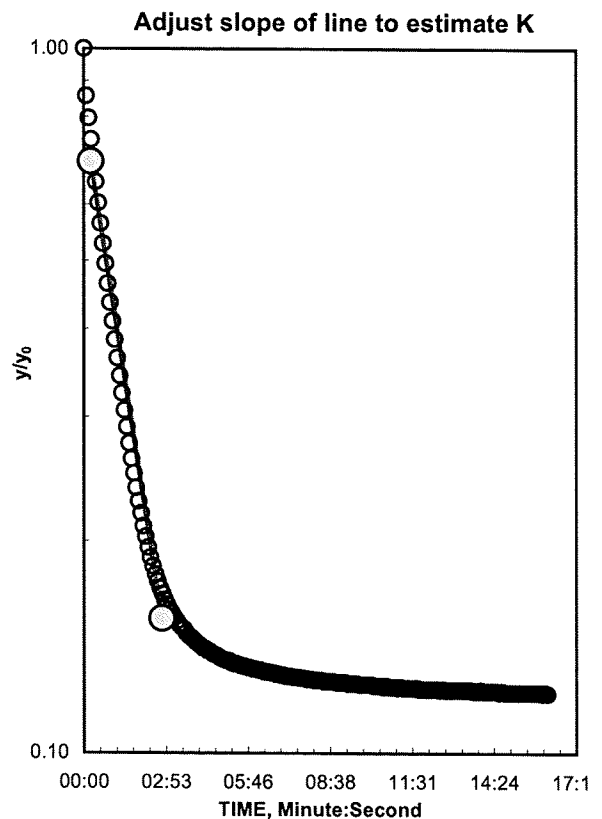
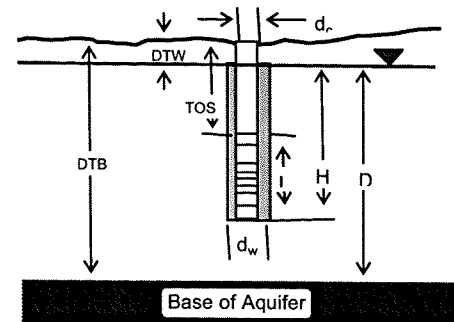
Date: 05/20/2009

INPUT

Construction:	
Casing dia. (d_c)	0.05 Meter
Annulus dia. (d_w)	0.1 Meter
Screen Length (L)	1.5 Meter
Depths to:	
water level (DTW)	1.3 Meter
top of screen (TOS)	6.1 Meter
Base of Aquifer (DTB)	8.1 Meter
Annular Fill:	
across screen --	Coarse Sand
above screen --	Bentonite
Aquifer Material --	
Fine Sand	

COMPUTED

L_{wetted}	1.5 Meter
$D =$	6.8 Meter
$H =$	6.3 Meter
$L/r_w =$	30.00
Y_0 -DISPLACEMENT =	314.90 cm
Y_0 -SLUG =	301.70 cm
From look-up table using L/r_w	
Partial penetrate A =	2.514
B =	0.414
$\ln(Re/r_w) =$	2.915
Re =	3.03 cm
Slope =	0.004342 \log_{10}/sec
$t_{90\%}$ recovery =	230 sec
Input is consistent.	
K = 0.00061 cm/Second	



Bouwer and Rice analysis of slug test, \

WELL ID: MW08-3 Test 4

Engineer: DEE

Date: 05/20/2009

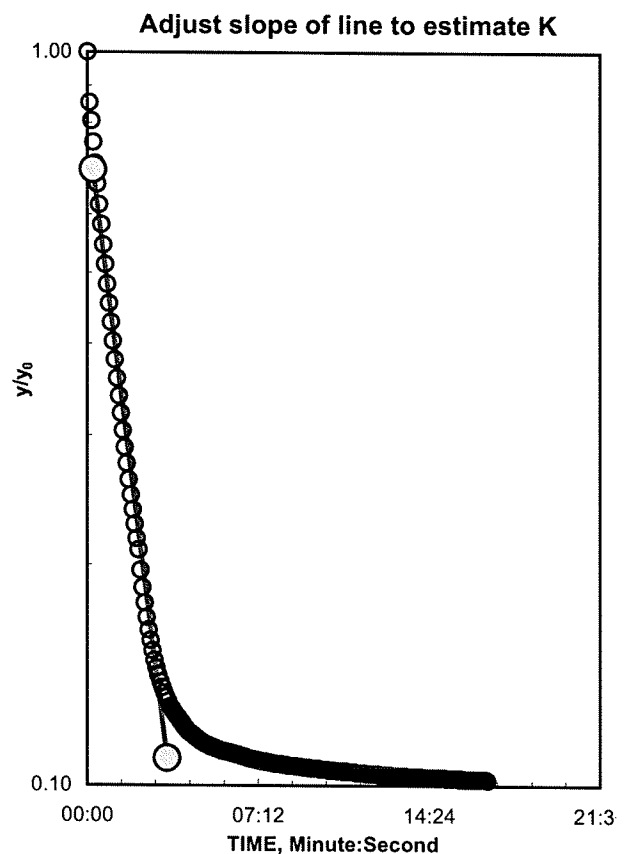
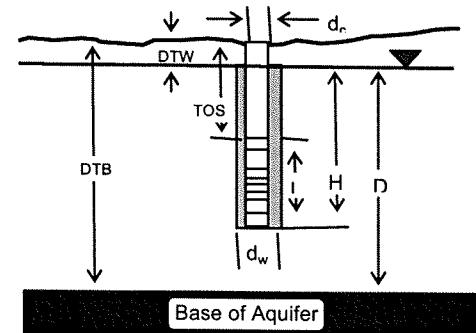
INPUT

Construction:	
Casing dia. (d_c)	0.05 Meter
Annulus dia. (d_w)	0.1 Meter
Screen Length (L)	1.5 Meter
Depths to:	
water level (DTW)	1.3 Meter
top of screen (TOS)	6.1 Meter
Base of Aquifer (DTB)	8.1 Meter
Annular Fill:	
across screen --	Coarse Sand
above screen --	Bentonite
Aquifer Material --	
Fine Sand	

COMPUTED

L_{wetted}	1.5 Meter
D =	6.8 Meter
H =	6.3 Meter
L/r_w =	30.00
y_0 -DISPLACEMENT =	472.18 cm
y_0 -SLUG =	448.98 cm
From look-up table using L/r_w	
Partial penetrate A =	2.514
B =	0.414
$\ln(Re/r_w)$ =	2.915
Re =	3.03 cm
Slope =	0.004283 \log_{10}/sec
$t_{90\%}$ recovery =	233 sec
Input is consistent.	

K = 0.0006 cm/Second

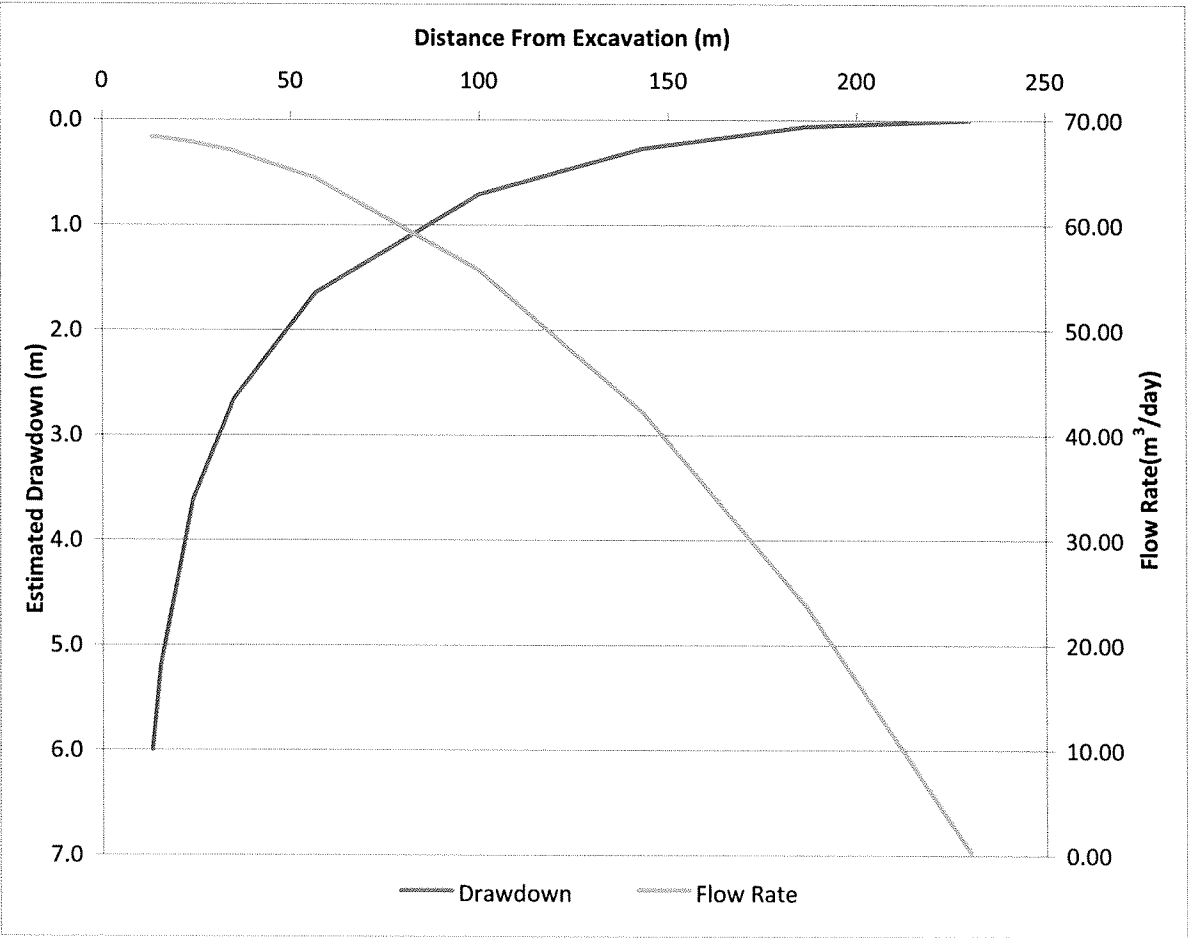


Bouwer and Rice analysis of slug test, \

APPENDIX K
STEADY STATE ANALYSIS RESULTS

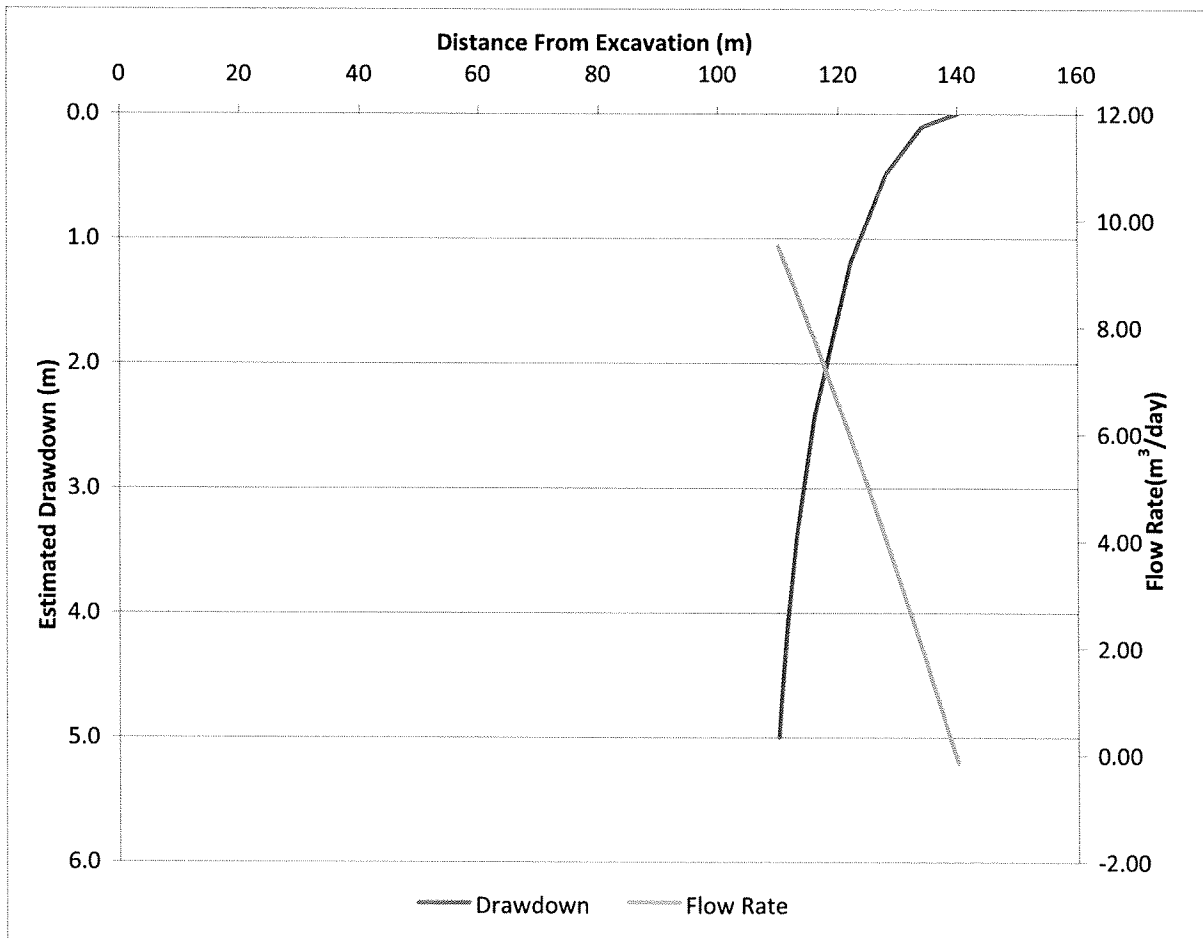
HWY 404 EXTENSION - DOANE ROAD FOUNDATION EXCAVATION **Steady State Flow to a Well in an Infinite Unconfined Aquifer with Surface Recharge**

<i>Input Parameters</i>	
Infiltration Rate (m/s)	4.76E-09
Hydraulic Conductivity (m/s)	1.00E-05
Head at distance (m)	8
Head in well/excavation (m)	2
Radius at zero drawdown (m)	230
Radius at well/excavation (m)	13



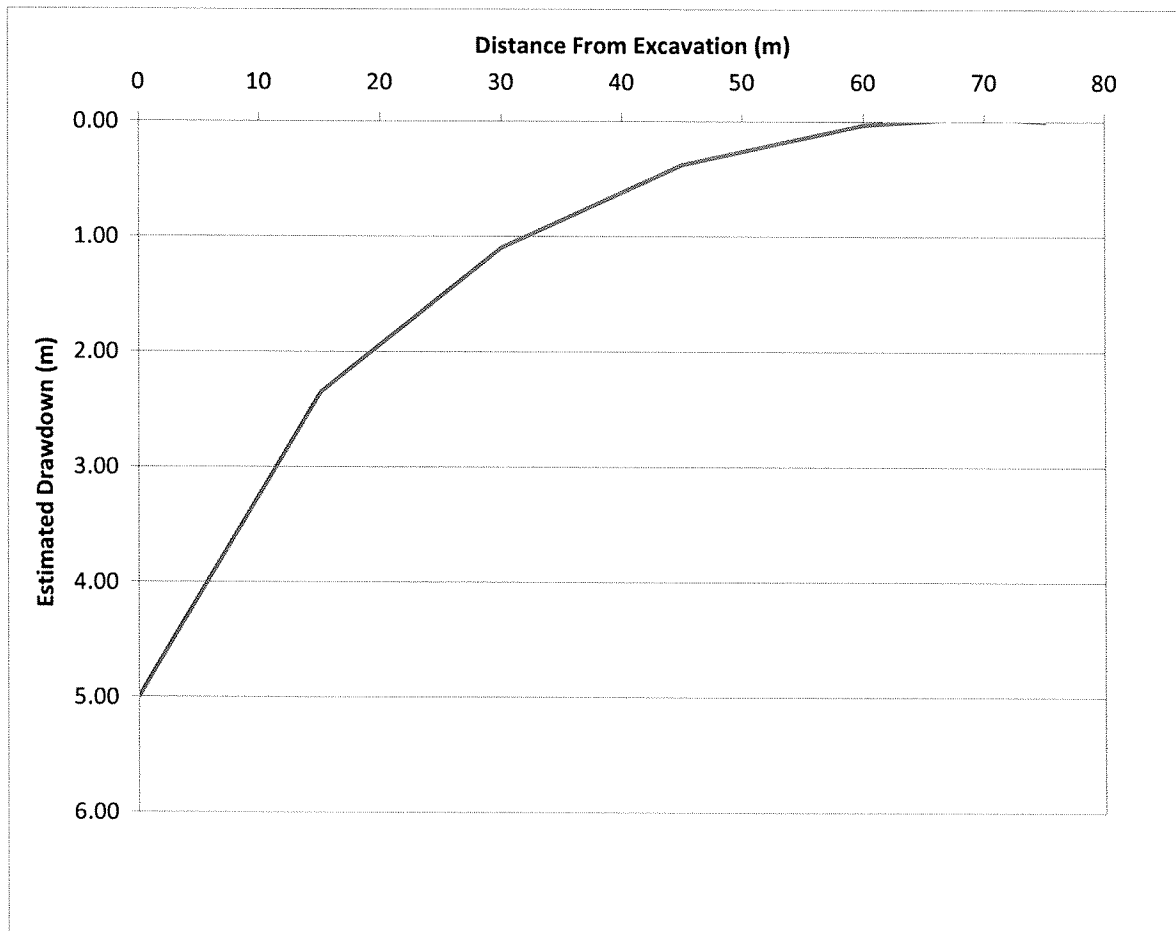
HWY 404 EXTENSION - EXCAVATION FOR CULVERT AT 30+300
Steady State Flow to a Well in an Infinite Unconfined Aquifer with Surface Recharge

Input Parameters	
Infiltration Rate (m/s)	4.76E-09
Hydraulic Conductivity(m/s)	1.00E-07
Head at distance (m)	7
Head in well/excavation (m)	2
Radius at zero drawdown (m)	140
Radius at well/excavation (m)	110



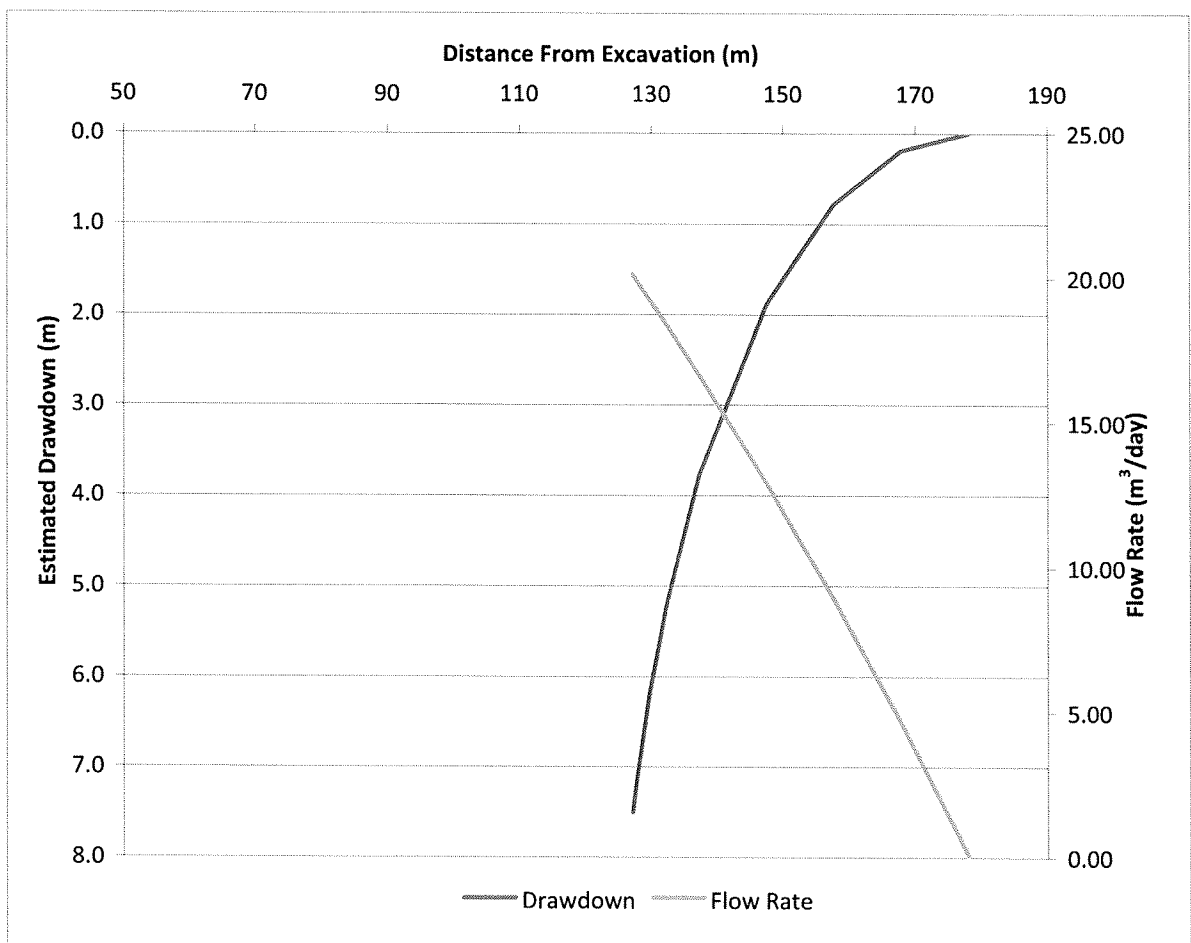
HWY 404 EXTENSION - MASKINONGE RIVER CULVERTS (1 TO 4)
Steady State Flow to a Slot in an Infinite Unconfined Aquifer with Surface Recharge

Input Parameters	
Infiltration Rate (m/s)	4.76E-09
Hydraulic Conductivity (m/s)	5.00E-07
Head at distance (m)	7
Head in well/excavation (m)	2
Distance at zero drawdown (m)	75
Length of excavation (m)	140



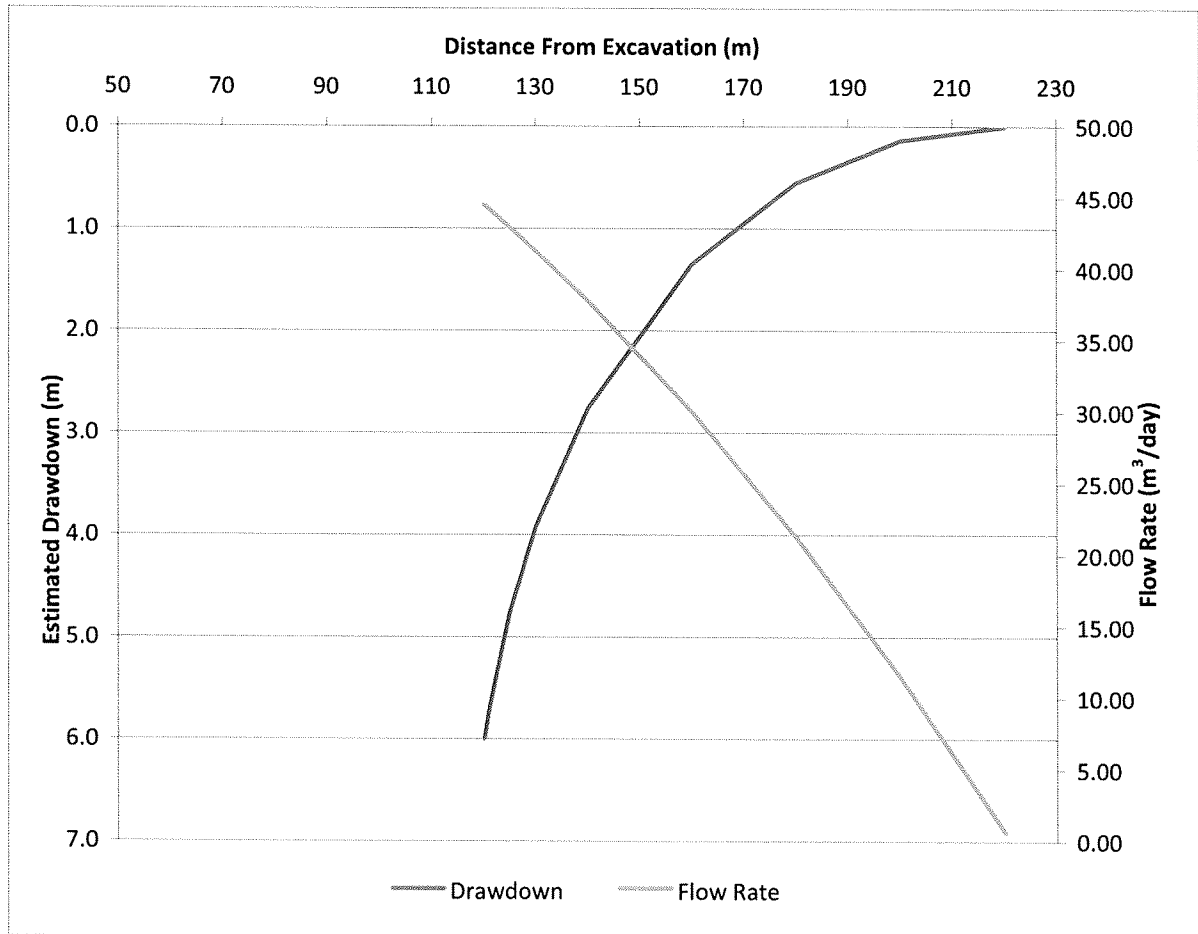
HWY 404 EXTENSION - DEEP CUT SOUTH OF MT. ALBERT ROAD (STA. 27+650 TO 27+950)
Steady State Flow to a Well in an Infinite Unconfined Aquifer with Surface Recharge

Input Parameters	
Infiltration Rate (m/s)	4.76E-09
Hydraulic Conductivity (m/s)	1.20E-07
Head at distance (m)	11.5
Head in well/excavation (m)	4
Radius at zero drawdown (m)	178
Radius at well/excavation (m)	127



HWY 404 EXTENSION - DEEP CUT NORTH OF DOANE ROAD (STA. 30+900 TO 31+150)
Steady State Flow to a Well in an Infinite Unconfined Aquifer with Surface Recharge

Input Parameters	
Infiltration Rate (m/s)	4.76E-09
Hydraulic Conductivity (m/s)	1.00E-06
Head at distance (m)	8
Head in well/excavation (m)	2
Radius at zero drawdown (m)	220
Radius at well/excavation (m)	120



HWY 404 EXTENSION - DEEP CUT NORTH OF QUEENSVILLE SIDEROAD (STA. 33+200 TO 33+700)
Steady State Flow, Confined Conditions, Leaky Aquitard

Input Parameters	
Aquifer thickness (m)	2.00
Hydraulic Conductivity (m/s)	7.00E-04
Aquitard Thickness (m)	5
Aquitard Conductivity (m/s)	1.00E-07
Distance (m)	600
Length of excavation (m)	100
Height of Excavation (m)	-
Head above aquitard (m)	8
Head at source/sink (m)	3

NOTE: Negative flow values indicate flow into the aquifer

