CLEAN WATER/CLEAN AIR BOND ACT
ENVIRONMENTAL RESTORATION PROJECT

SITE INVESTIGATION REPORT
VOLUME III

for the

MATT PETROLEUM SITE
Leland Avenue, City of Utica
Oneida County, New York
DEC Site No. B00192-6

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ENVIRONMENTAL RESTORATION PROJECT
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APPENDIX A - TEST PIT SUMMARY

Dates Completed: 5/14/04, 5/17/04 and 5/18/04

Test Pit Location	Depth (ft)	PID Reading (ppm)	PID Reading Depth (ft)	Free Product Present (yes/no)	Strata Change Depth (ft)	Comment
TP-1 (inside AST-10)	0 to 2	0.0	2.0	no	1.0	recently graded sand and gravel, brown, clean; gray fine to coarse sand and gravel, with cobbles, wood, concrete rubble, wire, fines and brick fragments, wet
	2 to 4	0.0	4.0	no	4.0	black (organics?) fill, as described above
	4 to 6	0.0	6.0	no		grey fill, as described above, appears dry
	6 to 7.5			no		grey fill, as described above, appears dry
	Comments	groundwater seepage @ approx. 4 ft bgs; possible odor from excavation; much rubble and hard fill				
TP-2 (SE area at fenceline)	0 to 2	0.0	2.0	no		brown, dry sand and gravel
	2 to 4	0.0	4.0	no	2.5	brown, dry sand and gravel; C&D fill - much brick fragments, sand and gravel with fines, old pipe, moist
	4 to 6			no		C&D fill - as above
	6 to 8	0.0	7.5	no	7.0	C&D fill - as above; brown, moist, silty clay, mottled, stiff from 7 ft bgs
	8 to 8.5			no		brown, moist silty clay, mottled, stiff
	Comments	no groundwater seepage noted; no visual evidence of contamination observed				
TP-3 (near oil/water seperator)	0 to 2			no	1.8	brown, compact sand and gravel, dry to moist; C&D fill - orange brick fragments, sand and gravel with considerable fills/rubble
	2 to 4	0.0	2.5	no		C&D fill - orange brick fragments, sand and gravel with considerable fills/rubble
	4 to 6	0.0	4.5	no		C&D fill - as above
	6 to 7.5	0.4	7.0	no	7.0	C&D fill - as above; brown, moist, stiff, silty clay
	Comments	groundwater seepage at approx. 4 ft bgs; no visual evidence of contamination observed				

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Test Pit Location	Depth (ft)	PID Reading (ppm)	PID Reading Depth (ft)	Free Product Present (yes/no)	Strata Change Depth (ft)	Comment
TP-4 (inside AST-14)	0 to 2	0.0		no		mixed soils - brown, silt and fine sand, some gravel; grey fine to coarse sand and gravel with brick fragments; organics (rootlets, wood)
	2 to 4	15.0	2.5	yes		mixed soils - as above
	4 to 6	0.2	4.0	no	5.0	mixed soils - as above; brown, mottled, stiff, silty clay, moist
	6 to 7	0.0	0.3	no	6.5	silty clay - as above
	Comments	groundwater seepage at approx. 2.5 ft bgs; sheen and trace free product in seepage				
TP-5 (inside AST-5)	0 to 2			no	2.0	brown, moist silt and fine sand and gravel; fine and coarse sand with gravel
	2 to 4			no		C&D fill - brick fragments, silt and fine sand and gravel, wet
	4 to 6			no		C&D fill - as above
	Comments	groundwater seepage at approx 2 ft bgs filled test pit; no evidence of contamination observed				
TP-6 (west of oil/water seperator excavation)	0 to 2	0.0	2.0	no	1.3	brown, moist, recently graded, gravelly sand; fine gravel crushed stone fill with water
	2 to 4	0.0	3.5	no	2.2	fine gravel crushed stone fill with water
	4 to 6			no	4.8	gray, moist, stiff, silty clay
	6 to 6.5	0.3 to 0.6	6.0	no		gray, moist, stiff, silty clay
	Comments	groundwater seepage at approx. 2 ft bgs; no visual evidence of contamination observed				

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TP-7 (AST-4 interior)	0 to 2			no	2.0	brown, wet, recently graded sand and gravel
	2 to 4	23.0	3.0	no		grey (stained), moist, clayey silt, trace gravel
	4 to 6			no	5.5	clayey silt, trace gravel - as above; trace of brick fragments at 5.5 ft bgs; brown-grey, moist, very stiff, clayey silt
	6 to 7.5	0.8	6.0			brown-grey, moist, very stiff, clayey silt
	Comments	groundwater seepage at approx. 4 ft bgs; signifcant staining from 2 ft to 4 ft bgs; staining grades out in clay unit; no sheen in groundwater seepage noted				
TP-8 (inside AST-6)	0 to 2					variable brown, grey, greenish silt-sand and gravel fill, brick fragments throughout
	2 to 4	31.0	3.0			silt-sand and gravel - as above
	4 to 6				5.0	silt-sand and gravel - as above; grey silty clay with gravel
	6 to 7					silty clay with gravel - as above
	Comments	groundwater at approx. 2 ft bgs; small quantity of greenish emulsified oil on watertable; obvious odor				
TP-9 (east fence near / between AST-5 and AST-6)	0 to 2				2.0	grey silt, fine-coarse sand and gravel
	2 to 4	80.0	3.0		3.0	brown sand and gravel, trace fines; black stained zone at 3 ft bgs
	4 to 6	10.0 to 15.0	4.0	yes		brown, wet, gravelly silt and sand, trace clay, with brick fragments, cohesive
	6 to 8					gravelly silt and sand - as above
	Comments	minor groundwater seepage at 4 ft bgs; minor brown free product seepage at approx. 3.5 ft bgs				

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Test Pit Location	Depth (ft)	PID Reading (ppm)	PID Reading Depth (ft)	Free Product Present (yes/no)	Strata Change Depth (ft)	Comment
TP-10 (inside AST-3)	0 to 2	25.0	1.0	no		dark brown/black to brown medium sand, trace fines, mottled, grading to brown sand
	2 to 4	10.0 to 20.0	2.0	no		brown sand
	4 to 6			no	6.0	brown sand - as above
	6 to 8			no		orange sandy silt and gravel fill, with brick fragments throughout
	8 to 9			no	8.0	silty clay
	Comments	no groundwater encountered; obvious odor; black sand may be stained				
TP-11 (inside AST-7)	0 to 2	0.0	1.5	no	1.5	brown sand and gravel, trace to little fines
	2 to 4	0.0	3.0	no		fill - brick fragments, silt, sand, gravel - very sandy, grey, wet, high groundwater yield in fill unit
	4 to 6			no		sand - as above; caving at 6 ft bgs
	Comments	groundwater at 2.5 ft bgs; no visual evidence of contamination observed				
TP-12 (near loading rack in AST-6 / AST-7 area)	0 to 2	0.0	2.0	no		brown, dry gravelly silt-sand fill
	2 to 4	8.0	4.0	no	2.5	silty sand - as above; silty sand and gravel, brick fragments throughout, grey (stained or organics?)
	4 to 6	5.0	5.5	no	6.0	silty sand and gravel - as above; possible top of clay at 6 ft bgs
	Comments	groundwater at approx. 2.5 ft bgs; no sheen or free product in groundwater; high groundwater yield in fill unit				

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Test Pit Location	Depth (ft)	PID Reading (ppm)	PID Reading Depth (ft)	Free Product Present (yes/no)	Strata Change Depth (ft)	Comment
TP-13 (south loading rack in AST-6 / AST-7 area)	0 to 2	0.0	2.0	no	1.0	brown silty sand and gravel; fill - brick fragments, fine sand and silt with gravel
	2 to 4			no		fill - as above
	4 to 6	1.0	5.0	no	4.0	brown, gravelly clay-silt and fine sand, stiff, groundwater perching/running off top of soil unit
	6 to 7			no		brown, gravelly clay-silt and fine sand - as above
	Comments	groundwater at approx. 4 ft bgs; no visual evidence of contamination observed; high groundwater yield in brick fill unit from 3 to 4 ft bgs				
TP-14 (AST-8, east)	0 to 2	0.0	1.5	no	1.5	brown, dry recently graded sand and gravel fill; fill - brick fragments, sand and gravel, little fines
	2 to 4	1.0	3.5	yes	3.0	fill - brick fragments, sand and gravel, little fines, grading to grey medium sand below groundwater table
	4 to 6	0.8	5.0	no	4.0	brown, very stiff clayey silt, brick fragments in clay
	6 to 8			no		clayey silt - as above
	Comments	groundwater at approx. 3 ft bgs; little/slight sheen and emulsified oil on groundwater table				
TP-15 (inside AST-8, north side)	0 to 2	10.0 to 35.0	1.5 to 5.5	no	1.5	brown sand and gravel; grey-brown gravelly silt with brick fragments
	2 to 4			no		grey-brown gravelly silt with brick fragments
	4 to 6			no	5.0	gravelly silt - as above; grey, firm, wet, silty clay
	6 to 8	0.0	6.0	no		silty clay - as above
	Comments	groundwater seepage at approx. 4 ft bgs; possible "VOC" odor; no sheen or free product observed				

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TP-16 (north of loading rack and river)	0 to 2			no	2.0	brown sand and gravel
	2 to 4			no	3.0	brown sand and gravel, silt, brick fragments; cohesive sandy silt, brick fragments, trace gravel, black staining with aged petroleum odor
	4 to 6	147.0	4.0	no		sandy silt - as above
	6 to 8	8.0	7.0	no	7.0	sandy silt - as above; light brown silty clay
	Comments	minor groundwater seepage at approx. 3 ft bgs; obvious odor, staining				
TP-17	0 to 2			no	2.0	fill, brick fragments and 1.5" dia. steel pipe
	2 to 4			no		silty sand, trace meduim gravel
	4 to 6			no		silty sand - as above
	6 to 8	6.1	8.0	no	7.0	silty sand - as above; dark brown/black clay, some silt
	8 to 10	0.0	10.0	no		clay - as above
	Comments	groundwater at approx. 3 ft bgs; no sheen				
TP-18	0 to 2			no	2.0	fill, brick fragments and 1.75" dia. steel pipe
	2 o 4			no		brown silt, some medium to coarse gravel
	4 to 6			no		silt - as above
	6 to 8	1.9	7.0	no	7.0	silt - as above; dark brown/black clay, some silt, trace meduim gravel
	8 to 8.5	0.0	8.5	no		clay - as above
	Comments	groundwater at approx. 3.5 ft bgs; sheen on groundwater; staining observed at groundwater table				

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Test Pit Location	Depth (ft)	PID Reading (ppm)	PID Reading Depth (ft)	Free Product Present (yes/no)	Strata Change Depth (ft)	Comment
TP-19 (approx. 70 ft from corner of block wall and fence)	0 to 2			no		
	2 to 4			no		fill, brick fragments and 1.75" dia. steel pipe
	4 to 6	233.0	6.0	no	5.0	(strong odor and sheen)
	6 to 8			no		dark brown/black clay, some silt, trace gravel
	8 to 10	22.0	9.0	no		clay - as above
	Comments	groundwater at approx. 9 ft bgs; obvious odor, sheen and staining				
TP-20 (blending tank area)	0 to 2			no		fill, brick fragments; staining observed from 1.5 ft bgs through 2 ft bgs
	2 to 4			yes		brown silt; staining observed through 2.5 ft bgs; flowing free product at 3.5 ft bgs
	4 to 6	542.0	6.0	no		brown silt - as above
	6 to 8			no	6.5	brown silt - as above; clay
	8 to 8.5	0.0	8.5	no		clay - as above
	Comments	no groundwater present; free product and staining observed; staining along concrete wall at property boundary				
TP-21 (blending tank area)	0 to 2			yes	1.0	fill - brown sand, some gravel; dark black stained gravel, some brick fragments, strong odor, free product (approx. 18" thickness)
	2 to 4	22.0	3.5	yes		dark black stained gravel, some brick fragments, strong odor, free product (approx. 18" thickness)
	4 to 6			no	4.5	soft grey clay, some silt
	6 to 7.5	0.6	7.5	no		clay - as above
	Comments	no groundwater present; free product and staining observed; staining along concrete wall at property boundary				

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TP-22 (center AST-2)	0 to 2			no	1.5	dark brown sand fill; fill - brick fragments, some medium sand and coarse gravel
	2 to 4			no		fill - brick fragments, some medium sand and coarse gravel
	4 to 6	51 to 65	5.0 to 6.0	no	6.5	fill - as above; meduim to coarse gravel exhibiting strong petroleum odor; sheen on groundwater
	6 to 8			no	8.0	medium to coarse gravel exhibiting strong petroleum odor
	8 to 8.5			no		dense dark brown/black clay, trace silt
	Comments	groundwater at approx. 4.5 ft bgs; sheen present				
TP-23 (AST-1)	0 to 2			no		brown sand and silt, some medium to coarse gravel, strong petroleum odor
	2 to 4	40 to 100	3.5 to 4.0	no	4.0	sand and silt - as above
	4 to 6	4.8	5.5	no	5.0	fill - brick fragments and metal debris; dark brown/grey clay, strong odor/sheen, RR ties
	6 to 8			no		dark brown/grey clay, strong odor/sheen, RR ties
	Comments	groundwater at approx. 5.5 ft bg; sheen, odor, staining present				
TP-24	0 to 2			no		fill - gravel and sand, debris (concrete blocks, RR ties) throughout; strong petroleum odor
	2 to 4	19.0	3.5	no		fill - as above
	4 to 6	4.9	4.0	no	6.0	fill - as above
	6 to 7	8.8 to 4.1	6.0 to 6.5	no	7.0	fill - as above; dark brown silt, coarse gravel; top of dark, wet, loose clay, some silt
	Comments	groundwater at approx. 2 ft bgs; obvious odor				

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Test Pit Location	Depth (ft)	PID Reading (ppm)	PID Reading Depth (ft)	Free Product Present (yes/no)	Strata Change Depth (ft)	Comment
TP-25 (manhole sump)	0 to 2			no		brown sand and gravel fill
	2 to 3.5			yes	2.0	gravel and large cobbles; free product atop groundwater table; 4" dia. steel pipe, 4" dia. asbestos pipe, 1.75" dia. PVC pipe present
	Comments	groundwater at approx. 2 ft bgs; free product present				
TP-26	0 to 2					dark brown sand, some cobbles and metal debris, strong petroleum odor
	2 to 4					sand - as above
	4 to 6					sand - as above
	6 to 8	38 to 1.8	7.5 to 8.0		8.0	sand - as above; top of dark grey/balck clay, some silt
	Comments	groundwater not present; obvious odor; free product present				
TP-27	0 to 2			no		fill - brick fragments, concrete fragments, RR ties; staingin evident from 1.5 ft bgs through 2 ft bgs, strong petroleum odor
	2 to 4	174.0	3.0	no		fill - as above; staining evident through 3 ft bgs
	4 to 4.5			no		concrete footer at 4.5 ft bgs
	Comments					groundwater present at approx. 3 ft bgs

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Test Pit Location	Depth (ft)	PID Reading (ppm)	PID Reading Depth (ft)	Free Product Present (yes/no)	Strata Change Depth (ft)	Comment
TP-28	0 to 2			yes	2.0	dark brown/black coarse sand and gravel, some concrete and brick fragments, black staining from 1 ft bgs; free product present as well
	2 to 4					fill - brick fragments and coarse gravel exhibiting strong odor
	4 to 6	22.0	6.0			fill - as above
	6 to 7	77.0 to 14.0	7.0 to 8.0		7.0	fill - as above; dark grey soft clay, some silt, trace brick fragments
	Comments	groundwater at approx. 2 ft bgs; odor, staining and free product present				
TP-29	0 to 2			yes		fill - dark brown sand and coarse gravel, trace brick fragments, RR ties; free product present
	2 to 4	1.1	4.0			fill - as above
	4 to 6				6.0	fill - as above
	6 to 7	0.1	7.0			dark brown/grey silt, some sand, trace clay
	Comments	groundwater at approx. 5 ft bgs; free product present				
TP-30	0 to 2					brown/grey coarse sand, some silt, gravel, cobbles, brick fragments, steel debris; staining from 0.5 ft bgs to 2 ft bgs
	2 to 4	24.0	3.0	yes	3.0	coarse sand - as above, free product present, staing from 2 ft bgs to 4 ft bgs; coarse gravel and sand, some silt
	4 to 6	36.0	5.0			coarse gravel and sand, some silt
	6 to 7.5	5.6	7.5		7.5	coarse gravel and sand, some silt - as above; dark grey clay, sand, and silt, trace medium to coarse gravel
	Comments	groundwater at approx. 4.5 ft bgs; odor, staining and free product present				

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TP-31	0 to 2	0.2	0.5	no	2.0	broken slab; fill - brick fragments with staining from 0.5 ft bgs
	2 to 4	9.7	3.5			brown, wet, medium sand, some coarse gravel, trace brick fragments, slight odor, stained through 3.5 ft bgs
	4 to 6					medium sand - as above
	6 to 8	0.0	7.0		7.0	medium sand - as above; dark moist, grey/brown soft clay
	Comments	groundwater at approx. 2 ft bgs; odor and staining present				
TP-32 (loading rack area away from fence)	0 to 2			no		dark brown coarse sand, some coarse gravel
	2 to 4	1.1	4.0	no	2.5	coarse sand - as above; coarse, wet, gravel and cobbles, some coarse sand
	4 to 4.5	2.4	4.5	no	4.5	coarse, wet, gravel and cobbles, some coarse sand; dark grey, moist clay, trace silt, slight odor
	Comments	groundwater not present; obvious odor				
TP-33 (loading rack area next to fence)	0 to 2			no		fill - dark brown/black sand, coarse gravel, strong petroleum odor
	2 to 4			no	3.0 and 3.5	fill - as above; gravel zone; dark brown silt, some medium sand, trace gravel
	4 to 5	1.1	5.0	no		dark brown silt - as above; dark, moist, soft clay, trace silt
	Comments	groundwater not present, obvious odor				

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TP-34 (near 2" dia. gasoline and fuel oil lines leading to ECOO)	0 to 2					fill - dark brown sand and coarse gravel, stained
	2 to 4	22.0	3.0		3.0	fill - as above; sand and brick fragments, some silt
	4 to 5				4.5 and 5.0	sand and brick fragments - as above; dark grey clayey silt and medium to coarse gravel
	Comments	groundwater at approx. 2.5 ft bgs, staining evident				
TP-35	0 to 2					medium to coarse brown sand, some brick and rock fragments, staining evident
	2 to 4	0.7	3.0	yes	4.0	sand - as above
	4 to 6	0.0	5.0			dark grey clay, some silt
	Comments	groundwater at approx. 2 ft bgs; staining and free product present in groundwater				
TP-36 (next to catch basin, possible dispenser pump area)	0 to 2			no		fill - sand and coarse gravel, some C&D debris, very strong petroleum odor
	2 to 4	104.0	3.0	no	3.0	fill - as above; dark, moist clay, some silt, trace coarse gravel
	4 to 5			no	4.0	clay - as above
	Comments	groundwater at approx. 2 ft bgs, strong odor present				

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TP-37 (former tank area)	0 to 2			no		fill - dark brown medium to coarse sand and coarse gravel, very strong petroleum odor, staining
	2 to 4	120.0	3.5	yes	3.0	fill - as above; dark brown silt, some medium sand and medium gravel, strong petroleum odor, some free product
	4 to 6	34.0	4.5	no	4.0 and 4.5	brown silt - as above; dark grey clay, some silt
	Comments	groundwater at approx. 1.5 ft bgs, odor, staining and free product present				
TP-38 (former UST area)	0 to 2			no		fill - light brown medium sand
	2 to 4	12.0	3.0	no		fill - as above, staining and strong odor at 3.5 ft bgs
	4 to 6			no	4.5	fill - as above; clay unit, excavation caving in
	6 to 8	18.0	7.0	no		clay unit - as above
	8 to 10			no		clay unit - as above
	Comments	groundwater at approx. 3.5 ft bgs, odor and staining present				
TP-39	0 to 2			yes		fill - dark brown/black medium to coarse sand and coarse gravel, free product, conduit
	2 to 4	22.0	3.0	no	3.0	fill - as above; dark brown silt, some sand, trace gravel
	4 to 5	7.9	4.5	no	4.0	dark grey, moist, soft clay and silt
	Comments	groundwater at approx. 1.5 ft bgs, sheen at water table				

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TP-40 (14 ft off edge of bldg, even with oil / water seperator or catch basin in garage)	0 to 2			no		black sand and coarse gravel, staining starts at 0.5 ft bgs
	2 to 4	70.0	4.0	no		black sand - as above, strong pertoleum odor at 3.5 ft bgs
	4 to 6			no	4.5	black sand - as above; brick fill
	6 to 8	5.3	7.0	no	6.5	brick fill - as above; dark brown/black silt, some clay and coarse gravel
	8 to 9	105.0	8.0	no		dark silt - as above
	Comments	groundwater at approx. 4.5 ft bgs, odor and staining evident				
TP-41 (near 2" dia. PVC at 2.5 ft bgs - possible floor drain)	0 to 2			no		brown, some green, coarse sand and coarse gravel
	2 to 4			no	4.0	sand and gravel - as above, odor from 3 ft bgs
	4 to 6			no	6.0	brick fill, odor present
	6 to 8	30.0	7.0	no	7.5	dark brown silt and coarse sand and gravel; dark grey clay, some silt, odor through 7.0 ft bgs
	Comments	groundwater at approx. 5.5 ft bgs, odor and staining evident				
TP-42 (between 1st and 2nd garage bays)	0 to 2			no		fill - dark brown/black coarse sand and brick fragments
	2 to 4	50.7	3.0	no		fill - as above
	4 to 6	111.0	5.0	no	5.0	clay, 1.5" dia. steel pipe
	6 to 8	61.0 and 21.0	7.0 and 8.0	no		dark grey clay, some silt, trace gravel
	Comments	groundwater at approx. 7 ft bgs, odor and staining evident				

MATT PETROLEUM SITE
DEC Site No. 00192-6
Leland Avenue, City of Utica, Oneida County, New York

APPENDIX A - TEST PIT SUMMARY

Dates Completed: 5/14/04, 5/17/04 and 5/18/04

Test Pit Location	Depth (ft)	PID Reading (ppm)	PID Reading Depth (ft)	Free Product Present (yes/no)	Strata Change Depth (ft)	Comment
TP-43 (28" to possible slurry was)	0 to 2			no	2.0	brown sand and coarse gravel and cobbles, some brick and cinderblock fragments
	2 to 4			no		concrete slurry wall or old foundation
	4 to 6			no	4.5	slurry wall - as above; thin coarse gravel layer, dark clay
	6 to 7			no		clay
	Comments	groundwater at approx. 2 ft bgs, staining evident				
TP-44	0 to 2			no		brown sand and gravel, RR ties, gravel and wood fragments throughout, light staining evident
	2 to 4			no		sand - as above
	4 to 5			no	5.0	sand - as above; dark clay
	Comments	groundwater at approx. 2 ft bgs, staining evident				
TP-45	0 to 2	15.0	2.0	no		brown sand and gravel, concrete and brick fragments
	2 to 4			no		old foundation
	4 to 6	3.0	6.0	no	5.5 and 6	foundation - as above; coarse gravel; dark grey clay
	Comments	groundwater at approx 2 ft bgs, odor and staining evident				

Notes:
ppm parts per million
bgs below ground surface

MATT'S PETROLEUM SITE
City of Utica, Oneida County, New York
DEC Spill No. 99-75640

APPENDIX A - TEST PIT SUMMARY

Dates Completed: 9/20/04

Test Pit Location	Depth (ft)	PID Reading (ppm)	PID Reading Depth (ft)	Free Product Present (yes/no)	Strata Change Depth (ft)	Comment
PTP-46	0 to 2	6.0	2.0	no	0.5	topsoil with trace concrete, fine to medium sand and gravel
	2 to 4	18.0	4.0	no	4.0	heavy brick fragments with trace sand and gravel
	4 to 5	4.0	5.0	no		stiff clay with trace silt
						no groundwater encountered, no odor and staining evident
PTP-47	0 to 2			no		fine to medium sand and gravel with brick fragments
	2 to 4	16.0 to 4.0	3.0 to 4.0	no	4.0	fill - as above
	4 to 5	3.0	5.0	no		silty clay with trace gravel
						no groundwater encountered, heavy staining evident from 3 ft to 4.5 ft bgs
PTP-48	0 to 2	10.0	2.0	no		fine to medium sand and gravel with brick fragments
	2 to 4	4.0	3.0	no	4.0	silty clay with trace gravel
						no groundwater encountered, staining from 2 ft to 4 ft bgs

MATT'S PETROLEUM SITE
City of Utica, Oneida County, New York
DEC Spill No. 99-75640

APPENDIX A - TEST PIT SUMMARY

Dates Completed: 9/20/04

Test Pit Location	Depth (ft)	PID Reading (ppm)	PID Reading Depth (ft)	Free Product Present (yes/no)	Strata Change Depth (ft)	Comment
PTP-52	0 to 2	16.0	2.0	no	1.0	asphalt with fine to medium sand and gravel, trace brick fragments
	2 to 4	12.0	4.0	no	3.0	fine to medium sand and gravel, trace brick fragments
	4 to 6	4.0	5.0	no		heavy gravel with trace sand and brick fragments
	6 to 7			no		stiff clay at 7 ft bgs
						no groundwater encountered, heavy staining from 2 ft to 6 ft bgs
PTP-53	0 to 2	12.0 to 38.0	1.0 to 2.0		2.0	brick fragments
	2 to 4	72.0 to 31.0	3.0 to 4.0			fill - as above
	4 to 6	16.0	5.0		4.5	slurry wall encountered at 4.5 ft bgs, silty clay at 6 ft bgs
						no groundwater encountered, heavy staining from 2 ft to 4.5 ft bgs
PTP-54	0 to 2	18.0	2.0		1.0	fine to medium sand and gravel with brick fragments
	2 to 4	23.0	4.0		4.0	fine to medium gravel with brick fragments
	4 to 6					clay and silt with trace gravel and brick fragments
	6 to 7	6.0 to 2.0	6.0 to 7.0			stiff clay at 7 ft bgs
						no groundwater encountered, heavy staining from 2 ft to 6 ft bgs

Notes:
ppm parts per million
bgs below ground surface

APPENDIX B

SOIL BORING LOGS

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/10/04 **DATE COMPLETE: 6/10/04**

HOLE NO. SB-1
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. By 24" split spoon **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Surface brown sand & gravel	1.5
	0-2	0	1.2			Gray dry fine-coarse sand & fine/medium gravel	
	2.-4.	0	0.5				4.0
5						Wet gray dry fine-coarse sand & fine-medium gravel	5.0
	4.-6.	0	0.8			Brown moist clay/silt with brick fragments	
	6.-8.	0	2.0				
10							
15							
20							
25							
30							
						Sample Data:	
						-Sample taken - 2'-4'	
						-Bottom of boring - 8'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/10/04 **DATE COMPLETE: 6/10/04**

HOLE NO. SB-2
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown moist fine-coarse sand with trace fine/medium Gravel and silt	
	0.-4.	0	2.5				5.0
5		8				Gray (odor) silt and fine-medium sand with fine gravel	
						Brown moist stiff clay-silt	6.0
	4.-8.	0	4.0				
10							
15							
20							
25							
30							
						Field Indicators: -*Odor*	
						Sample Data: -Sample taken - 5'-6' -Bottom of boring - 8'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/10/04 **DATE COMPLETE:** 6/10/04

HOLE NO. SB-3
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown moist fine-coarse sand with trace fine/medium Gravel and silt	
	0.-4.	0	2.5				5.0
5		8				Gray (odor) silt and fine-medium sand with fine gravel	
						Brown moist stiff clay-silt	6.0
	4.-8.	0	4.0				
10							
15							
20							
25							
30							
						Field Indicators: -*Odor*	
						Sample Data: -Sample taken - 5'-6' -Bottom of boring - 8'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/10/04 **DATE COMPLETE:** 6/10/04

HOLE NO. SB-4
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Dark brown silty medium sand with trace fine-med. Gravel & brick fragments	
	0.-4.	0	2.0				
5		1					5.0
						Brown moist stiff clayey silt	
	4.-8.	0	2.0				
10							
15							
20							
25							
30							
						Field Indicators: -*slight sheen & odor 0-5'*	
						Sample Data: -Sample taken - 4'-5' -Bottom of Boring - 8'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/10/04 **DATE COMPLETE: 6/10/04**

HOLE NO. SB-6
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown fine-coarse sand & fine-coarse gravel with fines (wet)	
		0					
	0.-4.	27					
5		50					
		12					
	4.-8.						8.0
						Brown moist firm clayey silt	
10							
		0					
	8.-12.						
15							
20							
25							
30							
						Field Indicators:	
						-*sheen & odor at - 5'-9'*	
						Sample Data:	
						-Sample taken at - 5'-7'	
						-Bottom of Boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/10/04 **DATE COMPLETE:** 6/10/04

HOLE NO. SB-7
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown dry to moist fine-coarse sand & fine-coarse Gravel with trace sitl fines	
	0.-4.		3.5				
5		44					
						Brown moist soft clay	7.5
	4.-8.	35	3.0				
10							
15							
20							
25							
30							
						Field Indicators:	
						-*free product, staining, & sheen at - 5'-8'*	
						Sample Data:	
						-Sample taken at - 5'-7'	
						-Bottom of Boring - 8'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/10/04 **DATE COMPLETE: 6/10/04**

HOLE NO. SB-8
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown moist silt & fine sand with fine-coarse gravel & brick fragments	
	0.-4.		3.0				5.0
5		0.5				Clay - silt with trace fine gravel and brick fine-medium Sand & brick fines moist & wet @ 6'	
	4.-8.	10.5	3.2			Wet orange brick & sand zone (no visuals)	
10							
	8.-12.	0	4.0				
15							
20							
25							
30							
						Field Indicators: -*stainging at 7'-8'*	
						Sample Data: -Sample taken at 6'-8' -Bottom of Boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/10/04 **DATE COMPLETE: 6/10/04**

HOLE NO. SB-9
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown dry-moist medium-coarse sand with some Fine-medium gravel & trace fines	
	0.-4.						5.0
5		0				Brown wet silt and fine sand trace clay and fine-med. Gravel with course sand	
		0					
	4.-8.					Brown wet soft clay & silt	8.0
		0.5				Possible organics with brick fragments	
10							
	8.-12.	0					
15							
20							
25							
30							
						Field Indicators: -*staining at 3'-5' and 12'*	
						Sample Data: -Sample taken at 7'-9' -bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/10/04 **DATE COMPLETE: 6/10/04**

HOLE NO. SB-11
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown fine-coarse sand with fine-medium gravel	
		247				Brick with trace fines	
		331				(coarse sand seams)	
	0.-4.	6	2.5			(clay-silt rich seams)	
5		1.5					
		22					
		16					
	4.-8.	2	4.0				
		79					
10							11.5
		10				Brown soft clay	
	8.-12.	2	3.5				
15							
20							
25							
30							
						Field Indicators:	
						-*sheen zone at 4'-9'*	
						Sample Data:	
						-Sample taken at 3'-5'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/10/04 **DATE COMPLETE: 6/10/04**

HOLE NO. SB-12
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		0				Brown fine-coarse sand & fine-coarse gravel w/trace brick fragments	
		0					
	0.-4.	0.6	3.0				
5		5					
		4					
	4.-8.	1	3.5				
						Gravel with clayey silt	9.0
10		1				Brown moist firm clay	
		0					
	8.-12.		3.5				
15							
20							
25							
30							
						Field Indicators:	
						-*sheen zone 7'-8"*	
						Sample Data:	
						-sample taken at 7'-8'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/10/04 **DATE COMPLETE:** 6/10/04

HOLE NO. SB-13
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown dry to wet fine-coarse sand and fine-coarse Gravel, variable fines & clay seams	
		0					
		0					
	0.-4.		4.0				
5		10					
		23					
	4.-8.		3.5				
10		46					
							11.0
	8.-12.		3.5			Brown moist stiff clay	
15							
20							
25							
30							
						Sample Data:	
						-sample taken at - 4'-8'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATED STARTED: 6/10/04 **DATE COMPLETE: 6/10/04**

HOLE NO. SB-14
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		1.2				Brown fine sand with fine-coarse gravel & brick fragments	
		2					
		0					
	0.-4.		3.0				
5		50					
							7.5
	4.-8.		3.5			Silty clay	
		2					
10							
							12.0
	8.-12.		3.0				
		10				Fine-medium sand & silt with fine-medium gravel	
		33.3					
15		35.1					
	12.-16.	10.2	3.0				
20							
25							
30							
						Field Indicators:	
						-*staining zone - 4'-8'*	
						Sample Data:	
						-sample taken at - 4'-8'	
						-bottom of boring 16'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/10/04 **DATE COMPLETE:** 6/10/04

HOLE NO. SB-15
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Fine-coarse gravel with clayey silt seams and brick fragments	
	0.-4.	38	3.5			(sheen in water)	
5		47					
		130					
	4.-8.	37	3.0			(water & brick fragments)	
		29					
10							
	8.-12.	1	3.0				
15							
20							
25							
30							
						Field Indicators:	
						-*staining zone from - 4'-8'*	
						Sample Data:	
						-sample taken at - 6'-8'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/10/04 **DATE COMPLETE: 6/10/04**

HOLE NO. SB-16
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		0				Brown sand & gravel fill with little fines & brick fragments	
		0					
	0.-4.	0	3.0				
5							5.0
		8				Clayey silt	
		13					
	4.-8.	180	4.0				
		238					
10		587					
		60				Medium sand	11.8
	8.-12.	26	4.0			Brown soft clay	
15							
20							
25							
30							
						Field Indicators:	
						-* slight sheen from 7'-11'*	
						Sample Data:	
						-sample taken at - 10'-11'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/10/04 **DATE COMPLETE:** 6/10/04

HOLE NO. SB-17
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK/CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		0				Brown sand & gravel fill with brick fragments & silty fine sand	
		0					
		0					
	0.-4.	0	4.0				4.0
5						Fine-coarse sand & silty clay with trace gravel	
		350					
	4.-8.	1546	4.0				8.0
						Clayey silt with trace gravel	
10							
		382					
	8.-12.	481	4.0				
		981					
15							
20							
25							
30							
						Sample Data:	
						-sample taken at 6'-8'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/11/04 **DATE COMPLETE: 6/10/04**

HOLE NO. SB-21
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		0				Brown fine-medium sand & fine-coarse gravel brick fragments & trace silt	
	0.-4.	2	2.0				
5							
		273					6.0
		436				Brown soft moist silty clay	
	4.-8.		3.0				
10							
		6					
	8.-12.		2.0				
15							
20							
25							
30							
						Field Indicators:	
						-*slight dark brown staining zone - 5'-7'*	
						Sample Data:	
						-sample taken at - 5'-6.5	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/11/04 **DATE COMPLETE: 6/10/04**

HOLE NO. SB-22
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown moist fine sandy silt with trace fine-coarse gravel	
	0.-4.		2.5				
5		2.5					
		476					7.5
	4.-8.		3.0			Brown wet soft silty clay with trace fine-medium gravel	
		120					
10							
		18					
	8.-12.	15	4.0				
15							
20							
25							
30							
						Field Indicators:	
						-*wet gray staining zone - 6'-7.5*	
						Sample Data:	
						-sample taken at - 6'-7.5	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/11/04 **DATE COMPLETE:** 6/10/04

HOLE NO. SB-23
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		0				Brown moist wet silty sand & fine-coarse gravel with brick fragments & trace sands	
		0					
	0.-4.		2.5				4.0
5		0				Brown moist soft silty clay	
		0					
	4.-8.		3.0				
		0					
10							
		20					
	8.-12.		4.0				
15							
20							
25							
30							
						Field Indicators:	
						-*slight staining at - 11'*	
						Sample Data:	
						-sample taken at - 10'-11'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/11/04 **DATE COMPLETED:** 6/11/04

HOLE NO. SB-25
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		37				Dark brown fine-coarse sand & gravel with brick fragments	
	0.-4.	30	4.0				
5							
		1300					6.0
	4.-8.	1400	4.0			Silty clay	
10							
	8.-12.		3.0				
15							
20							
25							
30							
						Field Indicators:	
						-*sheen & free product zone - 5'-12'*	
						Sample Data:	
						-sample taken at - 6.5-7.5	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/11/04 **DATE COMPLETED:** 6/11/04

HOLE NO. SB-26
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Course sand & gravel with brick fragments	
	0.-4.	0	2				
5							
	4.-8.	0	0			No recovery (within UST tank removal excavation)	
10							
15							
20							
25							
30							
						Sample Data:	
						-no sample taken	
						-bottom of boring - 8'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/11/04 **DATE COMPLETED: 6/11/04**

HOLE NO. SB-27
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown fine-coarse sand & gravel with trace silt & brick fragments	
		1					
		109					
	0.-4.	1200	3.0				4.0
5						Silty clay with brick fragments	
		700					
		550					
	4.-8.		3.0				
10							10.0
		350				Soft clay (high water content)	
	8.-12.		2.5				
15							
20							
25							
30							
						Field Indicators:	
						-*staining zone - 2'-12'*	
						Sample Data:	
						-sample taken at - 6'-7'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/11/04 **DATE COMPLETED:** 6/11/04

HOLE NO. SB-28
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Dark brown fine-coarse sand & gravel with brick fragments	
		1					
		80					
	0.-4.	95	3				
5							
		70					6.5
		85				Moist silty clay with trace gravel	
	4.-8.	42	3				
		10					
10		115					
		50					
	8.-12.	20	3				
15							
20							
25							
30							
						Field Indicators:	
						-*staining zone 3'-12'*	
						Sample Data:	
						-sample saken at - 6'-7'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/11/04 **DATE COMPLETED:** 6/11/04

HOLE NO. SB-29
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						4" concrete layer	
						1'-2' void	
	0.-4.					3'-4' concrete course sand & gravel	
5							
10							
15							
20							
25							
30							
						Sample Data:	
						-sample taken at - 4'	
						-bottom of boring - 4'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/11/04 **DATE COMPLETED:** 6/11/04

HOLE NO. SB-30
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Thickness of floor 4" +/-	
	0.-4.	0.1	1.0			Concrete with medium-coarse sand & gravel ground	
5		2.2				water @4'+/-	4.5
		11.2				Silty clay with trace gravel and brick	
		29					
	4.-8.		4.0				
10							10.5
	8.-12.		4.0			Dense clay (no signs of contamination)	
15							
20							
25							
30							
						Field Indicators:	
						-*staining zone - 6'-8.5*	
						Sample Data:	
						-sample taken at - 6'-8'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/11/04 **DATE COMPLETED:** 6/11/04

HOLE NO. SB-32
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		0.2				Brown fine-coarse sand and gravel with trace brick fragments	
		2.2					
	0.-4.		3.0				
5							
		147					6.0
		75				Brown gray soft silty clay	
	4.-8.	16	2.5				
		8					
10		1					10.0
		0				Brown-gray moist soft clay	
	8.-12.		3.0				
15							
20							
25							
30							
						Field Indicators:	
						-*staining zone - 5'*	
						Sample Data:	
						-sample taken at - 4.5-5.5	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/11/04 **DATE COMPLETED: 6/11/04**

HOLE NO. SB-33
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		0				Dark brown fine-coarse sand & gravel	1.0
						Brown moist silt & fine sandy silt with trace fine-med. gravel	
	0.-4.		3.0				
5							
							6.5
						Orange silt & brick fragments with trace gravel & silt	
	4.-8.		2.5			medium-coarse sand	
10							
	8.-12.		0			no recovery	
15							
20							
25							
30							
						Field Indicators:	
						-*staining zone - 2'-7'*	
						Sample Data:	
						-sample taken at - 4.5-5.5	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/11/04 **DATE COMPLETED: 6/11/04**

HOLE NO. SB-34
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		1				Brown silty fine sand with trace silt and fine-coarse gravel	
		0					
		305					
	0.-4.	97	3.5				4.0
5		15				Brown moist firm clay	
		16					
	4.-8.		3.5				
		20					
10							
		2					
	8.-12.		2.0			No recovery with first drive-second try with spoon basket	
15							
20							
25							
30							
						Field Indicators:	
						-*slight sheen in slurry at - 5'-6'*	
						Sample Data:	
						-sample taken at - 2.5-3.5	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/11/04 **DATE COMPLETED: 6/11/04**

HOLE NO. SB-35
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Dark brown moist silt and fine-medium gravel	
		0					2.5
						Dark brown wet silt	
	0.-4.		3.5				
5							5.5
						Fine sandy silt with trace clay & brick fragments	
	4.-8.		3.5				
10							
	8.-12.		2.5				
15							
20							
25							
30							
						Sample Data:	
						-no sample collected	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/11/04 **DATE COMPLETED: 6/11/04**

HOLE NO. SB-36
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Dark brown moist fine-coarse sand and gravel	
		0					2.0
						Gray silt	
	0.-4.	0	2.5				
5							
							6.0
						Wet fine-medium sand	7.0
	4.-8.		3.5			Concrete fragments with clayey silt & fine-medium gravel	
10							
	8.-12.		0			No recovery	
15							
20							
25							
30							
						Sample Data:	
						-sample taken at 6'-7'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/11/04 **DATE COMPLETED: 6/11/04**

HOLE NO. SB-37
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown dry silt & fine sand with fine-coarse gravel	
		0					
		12					
	0.-4.	21	3.0				
5		7					5.5
		11				Brown-gray silty clay	
		12				Fine-medium sandy silt	7.0
	4.-8.	9	3.5			Silt with fine-coarse gravel and brick fragments	8.0
10							
		5					
	8.-12.		2.0			Brown wet soft silty clay with trace sand	
15							
20							
25							
30							
						Field Indicators:	
						-*slight sheen - 3'-7'*	
						Sample Data:	
						-sample taken at - 5.5-6.5	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/14/04 **DATE COMPLETED: 6/14/04**

HOLE NO. SB-39
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK/CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown moist fine sand & silt with trace gravel	
		5				and brick fragments	
		12					
	0.-4.		3.0				4.0
5						Brown soft silty clay (clay is rich at bottom of run)	
	4.-8.		0			No recovery	
		0					
10		0					10.0
		0				Brown soft moist clay	
	8.-12.		2.5				
15							
20							
25							
30							
						Field Indicators:	
						-*slight sheen - 2'-3'*	
						Sample Data:	
						-sample taken at - 1.5-2.5	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/14/04 **DATE COMPLETED:** 6/14/04

HOLE NO. SB-40
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown moist fine sand & silt with trace brick & gravel	
		0					
		0				Organics (wood chips)	
	0.-4.		2.5			Fine sandy silt with trace fine sand & gravel	
5		0					
		0					
	4.-8.	0	4.0				8.0
		0				Brown soft moist clay	
10		0					
	8.-12.		3.0				
15							
20							
25							
30							
						Field Indicators:	
						-*slight sheen - 7'*	
						Sample Data:	
						-sample taken at - 4'-6'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/14/04 **DATE COMPLETED: 6/14/04**

HOLE NO. SB-42
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		0				Brown fine-medium sand & silt with trace gravel	
		0					3.0
	0.-4.		4.0			Moist silty fine sand	
5		0					
		0					7.0
	4.-8.		4.0			Brown wet soft clay (no signs of contamination)	
		0					
10							
		0					
	8.-12.		4.0				
15							
20							
25							
30							
						Field Indicators:	
						slight staining - 1.5-5.5	
						Sample Data:	
						sample taken at - 2'-3'	
						bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/14/04 **DATE COMPLETED: 6/14/04**

HOLE NO. SB-43
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Fine sandy silt with trace gravel	
		260					
		300					3.5
	0.-4.		4.0			Wet sand	
5		120					
		785					
							7.5
	4.-8.	10	4.0			Brown fine sandy silt with gravel	
10		15					10.0
						Soft clay	
	8.-12.	6	4.0				
15							
20							
25							
30							
						Field Indicators:	
						-*sheen & staining zone - 1'-10'*	
						Sample Data:	
						-sample taken at - 5'-6'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/14/04 **DATE COMPLETED: 6/14/04**

HOLE NO. SB-45
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		38				Fine-medium sand & silt with trace gravel	
		45					
	0.-4.		3.0				
5		88					
		90					
		7.7					7.0
	4.-8.		3.5			Silty clay	
10		6.3					
							11.0
	8.-12.	4.2	4.0			Soft clay	
15							
20							
25							
30							
						Field Indicators:	
						-*staining & freeproduct zone - 1.5-11'*	
						Sample Data:	
						-sample taken at 6'-7"	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/14/04 **DATE COMPLETED: 6/14/04**

HOLE NO. SB-46
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		3.8				Fine-medium sand & silt with trace gravel	
		6.9					2.0
		23				Silty clay with brick fragments	
	0.-4.		3.0				
5							
		1000					6.0
						Soft clay with trace silt	
	4.-8.		3.5				
		338					
10							11.0
		321					
	8.-12.		4.0			Dense clay	
15							
20							
25							
30							
						Field Indicators:	
						-*staining & free product zone - 2'-12'*	
						Sample Data:	
						-sample taken at 6'-7'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/15/04 **DATE COMPLETED: 6/15/04**

HOLE NO. SB-49
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		0				Fine-medium sand & silt with trace gravel & concrete	
		0					
		0					
	0.-4.		3.0				
5		0					4.0
						Wet fine-medium sand & silt with gravel & concrete	
		0					
	4.-8.		3.0				8.5
		0				Silty clay with trace sand	
10							
	8.-12.		3.0				
15							
20							
25							
30							
						Sample Data:	
						-sample taken at - 5'-6'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/15/04 **DATE COMPLETED: 6/15/04**

HOLE NO. SB-50
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		0				Fine-medium sand with trace silt & gravel	
		0					
		2					
	0.-4.		2.5				
5		7					
							6.0
		0				Silty clay	
	4.-8.		4.0				
		0					
10		0					10.0
						Soft clay with trace silt	
	8.-12.	0	4.0				
15							
20							
25							
30							
						Field Indicators:	
						-*staining zone - 2'-5.5*	
						Sample Data:	
						-sample taken at - 4'-5'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/15/04 **DATE COMPLETED: 6/15/04**

HOLE NO. SB-51
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		0				Fine-medium sand & silt with trace gravel	
		0					
		2					3.0
	0.-4.		3.0			Silty clay with brick fragments	
5		7					
		0					
	4.-8.		2.5				8.0
		0				Wet silty clay	
10		0					
	8.-12.	0	4.0				
15							
20							
25							
30							
						Field Indicators:	
						-*strong organic odor - 4'-5'*	
						Sample Data:	
						-sample taken at 8'-9'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/15/04 **DATE COMPLETED: 6/15/04**

HOLE NO. SB-52
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown moist fine-medium sand with concrete & brick fragments	
		4					
		47					
	0.-4.		3.0				4.5
5		37				Silty clay with brick fragments	
		20					
		1.3					
	4.-8.		3.0				
10							
	8.-12.		4.0				
15							
20							
25							
30							
						Field Indicators:	
						-*slight staining - 4'*	
						Sample Data:	
						-sample taken at - 4'-6'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/15/04 **DATE COMPLETED: 6/15/04**

HOLE NO. SB-53
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		1				Fine-medium sand & silt with concrete & brick fragments	
		25					
		96					
	0.-4.		3.0				
5		43					
		77					6.0
		21				Silty clay with brick & concrete fragments	
	4.-8.		3.0				
10							
	8.-12.		0.0			No recovery	
15							
20							
25							
30							
						Field Indicators:	
						-*sheen & staining zone - 1.5-6.5*	
						Sample Data:	
						-sample taken at - 4'-5'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/15/04 **DATE COMPLETED: 6/15/04**

HOLE NO. SB-54
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		800				Fine-medium sand & silt with concrete & brick fragments	
		1300					
		2000					
	0.-4.		3.5				
5		2000					
		95					6.0
		12				Silty clay with brick & concrete fragments (moist)	
	4.-8.		3.5				
		350					
10		20					
							11.0
	8.-12.		4.0			Soft dense clay	
15							
20							
25							
30							
						Field Indicators:	
						-*sheen, staining, & free product zone - 1.5-6'*	
						Sample Data:	
						-sample taken at - 4'-6'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/15/04 **DATE COMPLETED:** 6/15/04

HOLE NO. SB-55
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Fine-medium sand with trace gravel & brick fragments	
		6.3					
	0.-4.		3.0				
5		12					5.5
		8				Dense clay with brick fragments	
		4					
	4.-8.		3.5				
		0					9.0
10		0				Moist soft clay	
		0					
	8.-12.	0	4.0				
15							
20							
25							
30							
						Sample Data:	
						-sample taken at - 4'-6'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/15/04 **DATE COMPLETED: 6/15/04**

HOLE NO. SB-56
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		0				Brown fine-medium sand & silt with concrete & brick fragments	
		0					
		0					
	0.-4.	0	4.0				
5		0					5.0
		0				Silty clay with brick fragments	
		0					7.0
	4.-8.	0	4.0			Dense clay	
		0					
10		0					
		0					
	8.-12.	0	4.0				
15							
20							
25							
30							
						Sample Data:	
						-sample taken at - 5'-6'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/15/04 **DATE COMPLETED:** 6/15/04

HOLE NO. SB-57
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		10.2				Fine-medium sand & silt with concrete & brick fragments	
		15.1					
	0.-4.	175	3.5				
5		5					
		6					7.0
	4.-8.		3.5			Moist silty clay with brick fragments	
		4					
10		3					
		1.1					11.0
	8.-12.	0	4.0			Dense clay	
15							
20							
25							
30							
						Field Indicators:	
						-*staining zone - 1.5-11'*	
						Sample Data:	
						-sample taken at - 4'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/15/04 **DATE COMPLETED:** 6/15/04

HOLE NO. SB-58
SURF. EL. NA
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown silt & sand with trace gravel	
		0					
	0.-4.		1.0				
5		200					
		40					6.0
		20				Silty clay with brick fragments	
	4.-8.	5	4.0				
		20					
10		75					10.5
		8				Soft moist clay	
	8.-12.		4.0				
15							
20							
25							
30							
						Field Indicators:	
						-*staining zone - 5'-6'*	
						Sample Data:	
						-sample taken at - 6'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED" 6/23/04 **DATE COMPLETED: 9/27/04**

HOLE NO. PSB-62
SURF. EL. 410.20
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** SAZ

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Clayey silt, trace fine sand and fine gravel, moist dark brown	
	0.-4.	0	2.0				
5						Clayey silt, moist, grading from brown to grey-brown, Brick and rock fragments	
	4.-8.	0	2.8				
10							10.0
	8.-12.	0	4.0			Clayey silt grading to clay, trace silt, grading from Dark brown to grey-brown, brick fragments through 11 ft., wet layer at 10 ft	
15							
	12.-16.	0	4.0			Dark brown clay, trace to some silt, moist	
20							
25							
30						Field Indicators: - None Detected	
						Sample Data: -bottom of boring -16.0 - sample taken at -8.0	
						Well Installation: -1" dia. Well installed at - 15.0 - well screen from -15.0 to -5.0 - PVC riser from -5.0 to grade - filter sock installed on screen - sand pack from -15.0 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED" 6/23/04 **DATE COMPLETED: 9/27/04**

HOLE NO. PSB-63
SURF. EL. **413.51**
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET **1 OF 1**

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING
30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** SAZ

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Topsoil-organics, dark brown, moist, with concrete fragments	2.0
	0.-4.	0	2.2			Clayey silt, dark brown, moist, trace concrete and brick fragments	
5							
	4.-8.	0	2.2			as above, wet	
10							
	8.-12.	0	3.5				
15							
	12.-16.	0	2.8				
20							
25							
30						Field Indicators: - none detected	
						Sample Data: -bottom of boring -16.0 - sample taken at -8.0	
						Well Installation: -1" dia. Well installed at - 15.0 - well screen from -15.0 to -5.0 - PVC riser from -5.0 to grade - filter sock installed on screen - sand pack from -15.0 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED" 6/23/04 **DATE COMPLETED: 9/27/04**

HOLE NO. PSB-64
SURF. EL. **403.15**
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET **1 OF 1**

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Hand Auger **Logged by:** SAZ

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		43.3	1			Fine sand and fine gravel, dark brown to black, wet refusal encountered at 1' bgs (RR tie)	
	0.-4.						
5							
10							
15							
20							
25							
						Field Indicators:	
						- strong petroleum odor	
30							
						Sample Data:	
						- bottom of boring -1.0	
						- sample taken at -1.0	
						Well Installation:	
						-1" dia. Well installed at - 1.0	
						- well screen from -1.0 to grade	
						- PVC riser from - NA	
						- filter sock installed on screen	
						- sand pack from -1.0 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED" 6/23/04 **DATE COMPLETED: 9/27/04**

HOLE NO. PSB-65
SURF. EL. 398.43
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Shovel **Logged by:** SAZ

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
5						NO BORING LOG COMPLETED AS DEPTH WAS 1FT.	
10							
15							
20							
25							
30							
						sample taken at 0.8'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED" 6/23/04 **DATE COMPLETED: 9/27/04**

HOLE NO. PSB-66
SURF. EL. 398.58
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Shovel **Logged by:** SAZ

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						NO BORING LOG COMPLETED AS DEPTH WAS 1FT.	
5							
10							
15							
20							
25							
30							
						sample taken at 0.8'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED" 6/23/04 **DATE COMPLETED: 9/27/04**

HOLE NO. PSB-67
SURF. EL. 398.18
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Shovel **Logged by:** SAZ

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
5						NO BORING LOG COMPLETED AS DEPTH WAS 1FT.	
10							
15							
20							
25							
30							
						sample taken at 0.8'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED" 6/23/04 **DATE COMPLETED: 9/27/04**

HOLE NO. PSB-68
SURF. EL.
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** SAZ

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
5						NO BORING LOG COMPLETED AS DEPTH WAS 1FT.	
10							
15							
20							
25							
30							

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED" 6/23/04 **DATE COMPLETED: 9/27/04**

HOLE NO. PSB-69
SURF. EL.
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** SAZ

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
5						NO BORING LOG COMPLETED AS DEPTH WAS 1FT.	
10							
15							
20							
25							
30							

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED" 6/23/04 **DATE COMPLETED: 9/27/04**

HOLE NO. PSB-70
SURF. EL. 405.32
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** SAZ

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Asphalt	0.25
						Fine to medium sand and gravel, trace silt, brick	
						Fragments, grading from moist to wet and from	
	0.-4.	30.1	1.7			Brown to dark brown with depth	
5							
		113					6.0
		184				Grey clay, trace silt, brick fragments, moist	
	4.-8.	73	2.5				
10							
	8.-12.		NR				
15							
20							
25							
30							
						Field Indicators:	
						-*slight odor from 0' to 8'*	
						Sample Data:	
						-sample taken at 7'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED" 6/23/04 **DATE COMPLETED: 9/27/04**

HOLE NO. PSB-71
SURF. EL. 404.91
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** SAZ

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Fine to medium sand and gravel, brick fragments	
		1.6				brown, moist	
	0.-4.	59.9	3.0				
5							
						As above, wet	7.0
	4.-8.	58.6	3.2			Silty clay, grey-brown, moist	
10		1.3					
	8.-12.		2.5				
15							
20							
25							
30							
						Field Indicators:	
						-*slight odor from 0' to 8'*	
						Sample Data:	
						-sample taken at 8'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED" 6/23/04 **DATE COMPLETED: 9/27/04**

HOLE NO. PSB-72
SURF. EL. 404.46
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** SAZ

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Fine to medium sand and gravel, brick fragments	
		52				brown, moist	2.0
		259				Clayey silt, trace fine sand, grey-brown, moist	
	0.-4.	158	3.3			with brick fragments	
5		281					
	4.-8.	62	2.3			As above, wet	8.0
						Silty clay, trace fine sand, wet, tight	
10							
	8.-12.	55	3.6				
15							
20							
25							
30							
						Field Indicators:	
						-*odor from 0' to 12'*	
						Sample Data:	
						-sample taken at 3'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED" 6/23/04 **DATE COMPLETED: 9/27/04**

HOLE NO. PSB-73
SURF. EL. 405.68
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** SAZ

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Fine to medium sand and gravel, brick fragments	
						moist	
	0.-4.	33	2.0				
5							
						As above, wet	6.0
						Grey clay, some silt	
	4.-8.		1.6				
		22.9					
10							
	8.-12.	5.9	3.6				
15							
20							
25							
30							
						Field Indicators:	
						-*odor, free product from 1' to 6'*	
						Sample Data:	
						-sample taken at 4'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED" 6/23/04 **DATE COMPLETED: 9/27/04**

HOLE NO. PSB-74
SURF. EL. 407.60
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** SAZ

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Fine to medium sand and gravel, brick fragments	
						Brown, moist	
	0.-4.	0.6	2.3				
5							
						As above, wet	6.0
		506				Grey-black silty clay, wet	
	4.-8.		3.2				
		1310					
10		68					
		15					
	8.-12.		3.3				
15							
20							
25							
30							
						Field Indicators:	
						-*odor, staining from 4' to 8'*	
						Sample Data:	
						-sample taken at 9'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED" 6/23/04 **DATE COMPLETED: 9/27/04**

HOLE NO. PSB-75
SURF. EL. 406.18
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** SAZ

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Fine to medium sand and gravel, brick fragments	
						Brown, moist, increasing silt content with depth,	
	0.-4.	29.5	1.5				
5		153					
	4.-8.	72	2.3			As above, wet	8.0
		8.8				Dark brown clayey silt, little to some fine to medium	
10		11.2				Gravel, wet	10.0
						Grey silty clay, moist	
	8.-12.	6.6	4.0				
15							
20							
25							
30							
						Field Indicators:	
						-*odor from 4' to 12'*	
						Sample Data:	
						-sample taken at 5'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED" 6/23/04 **DATE COMPLETED: 9/27/04**

HOLE NO. PSB-76
SURF. EL. 404.57
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** SAZ

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Fine to medium sand, little to some fine to medium	
						Gravel, trace brick fragments	2.0
		0.5				Silt, some clay, little fine sand, trace fine gravel	
	0.-4.		2.0			moist	
5		8.9					
		66.4					
	4.-8.	13.8	4.0				
							9.0
10		12.2				Grey clay, some silt, trace fine sand	
	8.-12.	3.8	4.0				
15							
20							
25							
30							
						Field Indicators:	
						-*odor from 4' to 12', free product from 5' to 12'*	
						Sample Data:	
						-sample taken at 7'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 4/22/05 **DATE COMPLETE:** 4/22/05

HOLE NO. SB-77
SURF. EL.
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Skid Mounted Geo. Probe Rig with 4' Macro Cores **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Surface organics	0.2
						Brown fine to medium sand, with trace silt, & organics	
						(Groundwater at 3.5')	
	0 - 4.0	0.0	2.5				
5							5.0
						Brown fine to medium sand, with trace silt, & organics	
						& heavy brick fragments	
	4.0 -8.0	0.0	3.5				8.5
						Brown to grey clay	
10							
						(poor recovery on first attempt, overdrove to 12.5'	
	8.0-12.0	0.0	0.5			on second attempt)	12.5
		0.0	3.0			Bottom of Boring	
15							
20							
25							
30							
						Field Indicators:	
						- sheen at ground water interface - 3.5'	
						Samples collected:	
						Depth: Time:	
						0' - 4.0' 11:39 AM	
						4.0' - 8.0' 11:51 AM	
						8.0' - 12.0' 12:05 AM	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 4/22/05 **DATE COMPLETE:** 4/22/05

HOLE NO. SB-78
SURF. EL.
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Skid Mounted Geo. Probe Rig with 4' Macro Cores **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Surface organics	0.2
						Brown fine to medium sand, with trace gravel & brick fragments	
	0 - 4.0	0.0	2.0			(Groundwater at 3.5')	
5							
						Brown fine to medium sand, with trace gravel &	
	4.0 -8.0	0.3	3.0			heavy brick fragments	
							9.0
10						Brown to grey clayey silt, with trace sand	
	8.0-12.0	0.6	2.5				12.0
						Bottom of Boring	
15							
20							
25							
30							
						Field Indicators:	
						- sheen at ground water interface - 3.5'	
						Samples collected:	
						Depth: Time:	
						0' - 4.0' 10:47 AM	
						4.0' - 8.0' 11:09 AM	
						8.0' - 12.0' 11:26 AM	

APPENDIX C

MONITORING AND TEMPORARY WELL LOGS

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/16/04 **DATE COMPLETED:** 6/16/04

HOLE NO. MW-1
SURF. EL. 408.23
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Rotary drilling with 4-1/4" HSA; 2" dia. Split spoons

Logged by: CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
				4		Brown fine-medium sand & silt with trace gravel	
				7			
				6			
	0-2	0	9"	3			
2.5				5			
				4			3
				5		Moist silty sand with trace gravel	
	2.-4.	0	14"	3			
				3			
5				2			
				2			5.5
	4.-6.	0	18"	3		Moist silty clay with trace sand	
				4			
				3			
7.5				3			7.5
	6.-8.	0	24"	5		Organics with silty clay & brick fragments	
				3			
				3			
			18"	3			
10	8.-10.	5.6		5			
				3			
				2			11
				4		Moist soft clay with trace silt	
	10.-12.	0	18"	5			
12.5							
						Well Installation:	
						- 2" dia well set at -14.0	
						- well screen from -14.0 to -4.0	
						- PVC riser from -4.0 to 1.0	
						- sand pack from -14.0 to -1.5	
						- hole plug from -1.5 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION Leland Ave. Utica, New York
DATE STARTED: 6/16/04 **DATE COMPLETED:** 6/16/04

HOLE NO. MW-2
SURF. EL. 408.25
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Rotary drilling with 4-1/4" HAS; 2" dia. Split spoons **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
				3		Fine-medium sand & silt with trace gravel	
				3			
				4			
	0-2		8"	3			
2.5				2			
		600		1			
				3		Moist silty sand with trace gravel	
	2.-4.		10"	2			
				1			
5		1200		2			
				1			5.5
	4.-6.		24"	2		Moist silty sand with trace gravel	
		2985		1			
				1			
7.5				1			7.5
	6.-8.		24"	2		Moist silty clay with trace gravel	
		1100		2			
				3			
		50		2			9.5
10	8.-10.	30	24"	2		Moist soft clay with trace silt	
		10					
	10.-12.	8	24"				
12.5							
15							
						Field Indicators:	
						- staining from -1.0 to -3.0	
						Well Installation:	
						- 2" dia. Well installed at -12.0	
						- well screen from -12.0 to -2.0	
						- PVC riser from -2.0 to 3.0	
						- sand pack from -12.0 to -1.5	
						- hole plug from -1.5 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION Leland Ave. Utica, New York
DATE STARTED: 6/16/04 **DATE COMPLETED:** 6/16/04

HOLE NO. MW-3
SURF. EL. 405.77
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Rotary drilling with 4-1/4" HAS; 2" dia. Split spoons **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
				4		Brick fragments	
		0		3			
				2			
	0-2		8"	2			
2.5				1		Fine-medium sand & silt with trace brick & gravel	2
		10		2			
				1		Moist silty sand with trace gravel	
	2.-4.		8"	2			
				1			
5		0		2			5
				2		Moist silty clay with sand	
	4.-6.	40	24"	1			
				2			
				3			
7.5				3			
	6.-8.		24"	3			
				2			
		0		2			
				2			9
10	8.-10.	0	24"	3		Soft moist clay	
		0					
	10.-12.	0	24"				
12.5							
15							
						Field Indicators:	
						- staining from -3.0 to -7.0	
						Well Installation:	
						- 2" dia. Well set at -12.0	
						- well screen from -12.0 to -2.0	
						- PVC riser from -2.0 to 3.0	
						- sand pack from -12.0 to -1.5	
						- hole plug from -1.5 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION Leland Ave. Utica, New York
DATE STARTED: 6/16/04 **DATE COMPLETED: 6/16/04**

HOLE NO. MW-4
SURF. EL. 405.76
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Rotary drilling with 4-1/4" HAS; 2" dia. Split spoons **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
				4		Asphalt with fine-coarse sand & brick fragments	
				5			
				5			
	0-2	95	12"	5			
2.5				5			
				4			
				5			3
	2.-4.	550	12	4		Fine-coarse sand with brick fragments	
				3			
5				3			
				3			5.5
	4.-6.	150	24"	4		Silty clay with trace gravel & brick fragments	
				3			
				2			
7.5				2			7.5
	6.-8.	190	24"	2		Moist soft clay with trace silt & brick fragments	
				1			
				1			
				1			
10	8.-10.		24"	1			
				1		(No recovery)	
				1			
				1			
	10.-12.	16	24"	1			
12.5						(No recovery)	
15							
						Field indicators:	
						- staining from -2.0 to -8.0	
						Well Installation:	
						- 2" dia Well set at -12.0	
						- well screen from -12.0 to -2.0	
						- PVC riser from -2.0 to 3.0	
						- sand pack from -12.0 to -1.5	
						- hole plug from -1.5 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION Leland Ave. Utica, New York
DATE STARTED: 6/16/04
DATE COMPLETED: 6/16/04

HOLE NO. MW-5
SURF. EL. 405.81
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Rotary drilling with 4-1/4" HAS; 2" dia. Split spoons **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
				3		Fine-coarse sand & silt with gravel & brick fragments	
				1			
				2			
	0-2	9.5	12"	3			
2.5				3			
				4			3
				4		Silty clay with brick fragments & gravel	
	2.-4.	42	18"	4			
				1			4.5
5				2		Sandy silt with trace clay	
				2			
	4.-6.	1	18"	2			
				1			
				2			7
7.5				2		Moist silty clay with trace silt	
	6.-8.	1.2	24"	2			
				1			8.5
				1		Wet soft clay with trace silt	
				1			
10	8.-10.		24"	2			
				2		(No recovery)	
				2			
				2			
	10.-12.	1	24"	1			
12.5						(No recovery)	
15							
						Well Installation:	
						- 2" dia. Well set at -12.0	
						- well screen from -12.0 to -2.0	
						- PVC riser from -2.0 to 3.0	
						- sand pack from -12.0 to -1.5	
						- hole plug from -1.5 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION Leland Ave. Utica, New York
DATE STARTED: 6/17/04 **DATE COMPLETED: 6/17/04**

HOLE NO. MW-6
SURF. EL. 404.69
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Rotary drilling with 4-1/4" HAS; 2" dia. Spli spoons **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
				4		Fine-medium sand & silt with trace gravel & brick fragments	
				5			
				8			
	0-2	0.1	12"	7			
2.5				7			
				6			
				3			
	2.-4.	9.8	6"	3			
				3			
5				3			5
				2		Wet fine-medium sand with brick fragments	
	4.-6.	0	6"	3			
				1			
				2			
7.5				1			
	6.-8.		0	2			8
				2		(No recovery)	
				2			
				2			
10	8.-10.	0	18"	3			10
				3		Moist soft clay with trace silt	
				4			11
				3		Dense silty clay	
	10.-12.	0	18"	3			
12.5							
15							
						Well Installation:	
						- 2" dia. Well set at -12.0	
						- well screen from -12.0 to -2.0	
						- PVC riser from -2.0 to 3.0	
						- sand pack from -12.0 to -1.5	
						- hole plug from -1.5 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION Leland Ave. Utica, New York
DATE STARTED: 6/17/04 **DATE COMPLETED: 6/17/04**

HOLE NO. MW-7
SURF. EL. 406.23
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Rotary drilling with 4-1/4" HAS; 2" dia. Split spoons **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
				6		Asphalt & brick fragments with fine/medium sand & silt	
				5			
				5			
	0-2	37.8	12"	6			
2.5				6			
				6			
				4			3.5
	2.-4.	25.5	6"	3		Fine-medium sand with brick fragments	
				2			
				3			
				4			
	4.-6.	28.8	6"	6			
				2			
				1			
7.5				1			
	6.-8.	16	0	1			
				1			
				1			
				1			9
10	8.-10.	9	18"	1		Moist silty clay	
				2			10.5
				2		Moist soft clay	
				3			
	10.-12.	0	18"	2			
12.5							
15						Field Indicators:	
						- staining from -2.0 to -10.5	
						Well Installation:	
						- well set at -12.0	
						- well screen from -12.0 to -2.0	
						- PVC riser from -2.0 to 3.0	
						- sand pack from -12.0 to -2.0	
						- hole plug from -2.0 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION Leland Ave. Utica, New York
DATE STARTED: 6/18/04 **DATE COMPLETED: 6/18/04**

HOLE NO. MW-8
SURF. EL. 404.94
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Rotary drilling with 4-1/4" HAS; 2" dia. Split spoons **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
				2		fine-medium silty sand with brick fragments	
				3			
				5			
	0-2	0	12"	4			
2.5				3			
				8			
				8			
	2.-4.	0	12"	4			
				3			
5				3			
				3			
	4.-6.	0	24"	3			6
				3		silty clay with brick fragments	
				3			
7.5				4			
	6.-8.	0	24"	5			
				3			
				3			
				3			
10	8.-10.	1.2	24"	5			
				3			
				5			
				4			11.5
	10.-12.	0	24"	3		soft clay with trace silt	
12.5							
15							
						Well Installation:	
						- 2" dia. Well installed at -12.0	
						- Well screen from -12.0 to -2.0	
						- PVC riser from -2.0 to 3.0	
						- Sand pack from -12.0 to -1.5	
						- Hole plug from -1.5 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION Leland Ave. Utica, New York
DATE STARTED: 6/21/04 **DATE COMPLETED:** 6/21/04

HOLE NO. MW-9
SURF. EL. 408.14
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Rotary Drilling with 4-1/4" HAS; 2" dia. Split spoons **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
				7		Fine-coarse sand & gravel with concrete	
				13			
				5			
	0-2	0	18"	10			
2.5				9			
				5			
				5			3
	2.-4.	0	6"	7		Silty sand with trace gravel	
				6			4.5
5		30		6		Silty sand with trace clay & fine/medium gravel	
				5			
	4.-6.		18"	4			
				2			
		30		2			
7.5				3			
	6.-8.	0	12"	3			
				1			
				2			
				1			
10	8.-10.	6	18"	2			
				2			10.5
				3		Silty clay with trace sand	
				3			
	10.-12.	0	18"	3			
12.5							
15							
						Field Indicators:	
						- staining from -2.5 to -5.0	
						Well Installation:	
						- 2" dia. Well installed at -12.0	
						- Well screen from -12.0 to -2.0	
						- PVC riser from -2.0 to 3.0	
						- sand pack from -12.0 to -1.5	
						- hole plug from -1.5 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION Leland Ave. Utica, New York
DATE STARTED: 6/21/04 **DATE COMPLETED: 6/21/04**

HOLE NO. MW-10
SURF. EL. 405.63
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Rotary drilling with 4-1/4" HAS; 2" dia. Split spoons **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
				2		Asphalt with fine-medium sand & silt with trace gravel	
		37		3			
				5			
	0-2		12"	4			2
2.5				4		Wet fine-coarse sand & silt with trace gravel	
				5			
				5			3.5
	2.-4.		12"	5		Sandy silt with brick fragments	
				1			
5				2			
				2			
	4.-6.	0.8	8"	2			
				2			
				3			
7.5				2			
	6.-8.	8.4	12"	2			8
				1		Moist silty clay	
				2			
				1			
10	8.-10.		12"	2			10
				3		Soft clay	
		6.8		2			
				2			
	10.-12.		24"	2			
12.5							
						Field Indicators:	
						- staining zone from -2.0 to -6.0	
						Well Installation:	
						- 2" dia. Well installed at -12.0	
						- well screen from -12.0 to -2.0	
						-PVC riser from -2.0 to 3.0	
						- sand pack from -12.0 to -1.5	
						- hole plug from -1.5 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION Leland Ave. Utica, New York
DATE STARTED: 6/22/04 **DATE COMPLETED: 6/22/04**

HOLE NO. MW-11
SURF. EL. 404.56
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Rotary drilling with 4-1/4" HAS; 2" dia. Split spoons **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
				2		Fine-medium sand & silt with brick fragments & asphalt	
				2			
				6			
	0-2	0.1	12"	8			2
2.5				5		Sandy silt with clay & trace gravel & brick fragments	
				5			
				5			
	2.-4.	0	8"	5			4
				2		Silty clay with trace sand	
5				1			
				3			
	4.-6.	0	6"	1			
				1			
				1			
7.5				1			
	6.-8.	0.3	24"	1			
				1		Moist silty clay	
				1			
				1			
10	8.-10.	0	24"	1			10
				1		Soft moist clay	
				1			
				1			
	10.-12.	0.3	24"	1			
12.5							
						Well Installation:	
						- 2" dia. Well set at -12.0	
						- well screen from -12.0 to -2.0	
						- PVC riser from -2.0 to 3.0	
						- sand pack from -12.0 to -1.5	
						- hole plug from -1.5 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION Leland Ave. Utica, New York
DATE STARTED: 6/22/04 **DATE COMPLETED:** 6/22/04

HOLE NO. MW-12
SURF. EL. 411.13
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Rotary drilling with 4-1/4" HAS; 2" dia. Split spoons **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
				3		Fine-medium sand & silty gravel with brick fragments	
				4			
				3			
	0-2	0.2	6"	4			
2.5				7			
				6			
				5			
	2.-4.	0.1	6"	4			
				3			4.5
5				3		Silty sand with clay & trace gravel	
				5			
	4.-6.	0.2	24"	6			
				3			6.5
				6		Silty sand with trace gravel	
7.5				5			
	6.-8.	0.2	12"	6			
				1			
				1			9
				1		Silty clay with trace sand & gravel	
10	8.-10.	23.1	24"	1			
				3			
				3			11
				3		Silty sand	
	10.-12.	19.5	24"	4			
12.5				1			
				1			
				2			
	12.-14.	0	24"	1			
15							
						Field indicators:	
						-staining zone - 4.5-10'*	
						Well Installation:	
						- 2" well set at 14.0	
						- well screen from -14.0 to -4.0	
						- PVC riser from -4.0 to 3.0	
						- sand pack from -14.0 to -1.5	
						- hole plug from -1.5 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION Leland Ave. Utica, New York
DATE STARTED: 6/22/04 **DATE COMPLETED: 6/22/04**

HOLE NO. MW-14
SURF. EL. 406.35
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Rotary drilling with 4-1/4" HAS; 2" dia. Split spoons **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
				2		Fine-medium sand & silt with brick fragments	
				2		& trace gravel	
				2			
	0-2	0.2	18"	2			2
2.5				7		Fine-medium sand with brick fragments	
				7			
				5			
	2.-4.	46.7	12"	4			4
				1		Silty sand with brick fragments	
5				1			
				1			
	4.-6.	0	24"	1			6
				1		Silty clay with brick fragments	
				1			
7.5				1			
	6.-8.	29.7	24"	2			8
				1		Moist clay with trace silt & brick fragments	
				1			
				1			
10	8.-10.	157	24"	2			
				2			
				2		Moist clay with brick fragments	
				3			
	10.-12.	0	18"	2			
12.5							
15							
						Field indicators:	
						- staining from 2.0 to 8.0	
						Well Installation:	
						- 2" well installed at 12.0	
						- well screen from -12.0 to -2.0	
						- PVC riser from - 2.0 to 3.0	
						- sand pack from -12.0 to -1.5	
						- hole plug from -1.5 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION Leland Ave. Utica, New York
DATE STARTED: 4/22/05 **DATE COMPLETED: 4/22/05**

HOLE NO. MW-16
SURF. EL. 406.9
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Rotary drilling with 4-1/4" HAS; 2" dia. Split spoons **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
				6		Dark brown fine to medium sand,with gravel &	
				7		Brick fragments	
				5			
	0-2		2.0	3			
2.5				3			
				2			
				2			
	2.-4.		1.5	4		(Ground water at 4.0')	4.0
				1		Dark brown wet fine to medium silty sand, with	
5				3		gravel & brick fragments, trace organics	
				4			
	4.-6.		1.5	2			
				2			6.5
				2		Dark brown wet silty sand, with trace clay	
7.5				2			
	6.-8.		1.0	2			
				W			
				O			
				H			
10	8.-10.		0.5	1			10.0
				1		Dark brown/grey clay with trace silt	
				1			
				1			
	10.-12.		2.0	2			12
12.5						Bottom of boring	
15							
						Field indicators:	
						- odor from 2.0'-7.0'	
						- staining from 4.0'-6.5'	
						Well Installation:	
						- 2" dia. well installed at -14.0'	
						- well screen from -14.0 to -4.0'	
						- PVC riser from -4.0 to 3.0'	
						- sand pack from -14.0 to -4.0'	
						- hole plug from -4.0' to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/14/04 **DATE COMPLETED:** 6/14/04

HOLE NO. SB-48/TW-1
SURF. EL. 405.6
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		5.8				Fine-medium sand & silt with gravel & brick fragments	
		6.7					
		10.3					
	0.-4.		3.0				4.0
5		12.8				Wet fine-medium sand & silt with gravel & brick fragments	
		589					6.0
		622				Silty clay with brick fragments	
	4.-8.	61.1	3.0				
		78.8					
10							
		58.2					
	8.-12.		2.5				
15							
20							
25							
30							
						Field Indicators:	
						-*staining zone - 2'-11.5*	
						Sample Data:	
						-sample taken at - 5'-6'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/14/04 **DATE COMPLETED:** 6/14/04

HOLE NO. SB-47/TW-2
SURF. EL. ???
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		10.2				Moist sand with gravel (fill)	
		126					
		148					
	0.-4.		3.0				
5		123					
		104					
		22.1					7.0
	4.-8.		3.5			Silty clay with brick fragments	
		61.1					9.0
10						Dense clay	
		48.2					
	8.-12.	14.1	4.0				
15							
20							
25							
30							
						Field Indicators:	
						-*staining, sheen, & free product zone - 2.5-9'*	
						Sample Data:	
						-sample taken at - 5'-6'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/14/04 **DATE COMPLETED:** 6/14/04

HOLE NO. SB-44/TW-3
SURF. EL. 406.0
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

SHEET 1 OF 1

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		200				Sandy fill with trace gravel	
	0.-4.		1.5				4.5
5		300				Wet sand with gravel	
		55					7.0
	4.-8.	15	3.5			Silty clay with fine sandy silt	
10							
	8.-12.		4.0				
15							
20							
25							
30							
						Field Indicators:	
						-*staining, sheen, & free product zone - 1'-9.5*	
						Sample Data:	
						-sample taken at - 7'-8'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/14/04 **DATE COMPLETED:** 6/14/04

HOLE NO. SB-41/TW-4
SURF. EL. 406.4
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown fine-medium sand & silt with trace gravel &	
		100				concrete	2.0
		800				Silty fine sand with fine/medium gravel & brick f	
	0.-4.	200	2.58			fragments	
5		600					
		110					
	4.-8.		2.5				8.0
		2				Brown moist soft clay	
10							
		2					
	8.-12.		3.0				
15							
20							
25							
30							
						Field Indicators:	
						-*staining, sheen, & free product zone - 2.5-9.5*	
						Sample Data:	
						-sample taken at - 5'-6'	
						-bottom of boring - 12'	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/11/04 **DATE COMPLETED: 6/11/04**

HOLE NO. SB-24/TW-5
SURF. EL. 405.3
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
		0				Dark brown medium-coarse sand & fine-coarse gravel with trace silt	
	0.-4.		2.58				4.0
5		25				Brown moist soft silty clay	
		15					
	4.-8.		3.5				
10							
		1					
	8.-12.		3.0				
15							
20							
25							
30						Field Indicators: -*sheen zone - 4.5-12'*	
						Sample Data: -bottom of boring 12.0 -sample taken at 5.0-6.0	
						Well Installation: -1" dia. Well installed at - 7.0 - well screen from -7.0 to -2.0 - PVC riser from -2.0 to 3.0 - sand pack from -7.0 to -0.5 - hole plug from -0.5 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 6/11/04 **DATE COMPLETED: 6/11/04**

HOLE NO. SB-31/TW-6
SURF. EL. **405.6**
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET **1 OF 1**

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Dark brown fine-coarse sand & gravel	
		3.2					
		5.8					
	0.-4.		3.0				
5							
		21.2					
		87.4					7.0
	4.-8.		3.0			Silty clay withtrace gravel & brick	
10		0					10.5
						Dark brown/gray dense clay	
	8.-12.	0	3.0			(no sign of contamination)	
15							
20							
25							
						Field Indicators:	
						-*staining & free product zone - 5.5-10.5*	
30							
						Sample Data:	
						-bottom of boring 12.0	
						-sample taken at 6.0-7.0	
						Well Installation:	
						-1" dia. Well installed at - 12.0	
						- well screen from -12.0 to -2.0	
						- PVC riser from -2.0 to 3.0	
						- sand pack from -12.0 to -0.5	
						- hole plug from -0.5 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED" 6/23/04 **DATE COMPLETED: 6/23/04**

HOLE NO. SB-62/TW-8
SURF. EL. 407.2
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Fine-medium sand & gravel with brick fragments	2.5
	0.-4.		3.0			Sandy silt	
5							6.5
	4.-8.		4.0			Silty clay with trace sand	
10							
	8.-12.		4.0				
15							
20							
25							
30						Field Indicators: -*staining zone - 2.5 to 3 and 4 to 6.5	
						Sample Data: -bottom of boring 12.0	
						Well Installation: -1" dia. Well installed at - 11.0 - well screen from -11.0 to -1.0 - PVC riser from -1.0 to 4.0 - sand pack from -12.0 to -0.5' - hole plug from -0.5 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED" 6/23/04 **DATE COMPLETED: 6/23/04**

HOLE NO. SB-59/TW-10
SURF. EL. 404.8
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Fine-medim sand & silt with trace gravel	1.5
	0.-4.	0	3.0			Silty sand with trace gravel	6.0
5							
	4.-8.	0	4.0			Silty clay with brick fragments	9.0
10							
	8.-12.	0	4.0			Silty clay with trace sand	
15							
20							
25							
30							
						Field Indicators:	
						-*staining zone - 1.5-6'*	
						Sample Data:	
						-bottom of boring 12.0	
						-sample taken at 4.5 -5.5	
						Well Installation:	
						-1" dia. Well installed at - 10.5	
						- well screen from -10.5 to -0.5	
						- PVC riser from -0.5 to 3.0	
						- sand pack from -10.5 to -0.5	
						- hole plug from -0.5 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED" 6/23/04 **DATE COMPLETED: 6/23/04**

HOLE NO. SB-60/TW-11
SURF. EL. 404.6
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Fine-medium silty sand with gravel	2.0
	0.-4.	0	2.5			Fine-medium sand	4.5
5						Silty clay with trace sand & brick fragments (moist)	7.0
	4.-8.	0	4.0			Silty clay with trace sand	
10							
	8.-12.	0	4.0				
15							
20							
25							
30						Field Indicators: -*staining zone - 2.5*	
						Sample Data: -bottom of boring 12.0	
						Well Installation: -1" dia. Well installed at - 11.7 - well screen from -11.7 to -1.7 - PVC riser from -1.7 to 3.3 - sand pack from -11.7 to -0.5' - hole plug from -0.5 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED" 6/23/04 **DATE COMPLETED: 6/23/04**

HOLE NO. SB-61/TW-12
SURF. EL. 408.2
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Fine-medium sand & silt with brick & gravel fragments	
	0.-4.	0	3.0				
5							
							6.0
						Silty sand with brick & gravel	
	4.-8.	0	4.0				8.0
						Silty sand with clay	
10							10.0
						Moist soft clay	
	8.-12.	0	4.0				
15							
20							
25							
						Field Indicators:	
						-*staining zone - 2.0 to 10.0	
30							
						Sample Data:	
						-bottom of boring 12.0	
						Well Installation:	
						-1" dia. Well installed at - 11.0	
						- well screen from -11.0 to -1.0	
						- PVC riser from -1.0 to 4.0	
						- sand pack from -11.0 to -0.5'	
						- hole plug from -0.5 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATED STARTED: 6/10/04 **DATE COMPLETE:** 6/10/04

HOLE NO. SB-10/TW-13
SURF. EL. 408.00
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown moist silt & fine-coarse gravel with brick fragments	
	0.-4.	0	3.0				
5							5.0
		0				Silty clay with trace sand seams	
	4.-8.	30	4.0				
10							
	8.-12.	0	3.5				
15							
20							
25							
30						Field Indicators: -*staining & slight sheen zone - 6'-11'*	
						Sample Data: -bottom of boring 12.0	
						Well Installation: -1" dia. Well installed at - 11.0 - well screen from -11.0 to -6.0 - PVC riser from -6.0 to 1.0 - sand pack from -11.0 to -5.0 - hole plug from	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATED STARTED: 6/10/04 **DATE COMPLETE:** 6/10/04

HOLE NO. SB-5/TW-14
SURF. EL. 404.90
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Direct Push - 2" dia. X 48" sleeved sampler **Logged by:** FAK

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown moist fine-coarse sand & gravel with trace Brick fragments	
	0.-4.		3.0				
5		9					5.0
						Wet brown silty fine-medium sand with trace brick & Gravel to clayey silt fine sand with trace fine gravel	
		0					
	4.-8.		3.5				8.5
						Brown moist firm clayey silt	
10							
	8.-12.	0	1.0				
15							
20							
25							
30							
						Sample Data:	
						sample taken at - 5'	
						bottom of boring 8.5	
						Well Installation:	
						-1" dia. Well installed at - 5.5	
						- well screen from -5.5 to -0.5	
						- PVC riser from -0.5 to 1.0	
						- sand pack from -5.5 to -0.5	
						- hole plug from -0.5 to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 4/20/05 **DATE COMPLETE:** 4/20/05

HOLE NO. TW-15
SURF. EL. 404.41
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Skid Mounted Geo. Probe Rig with 4' Macro Cores **Logged by:** DTH

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown moist fine to medium sand, trace fine to medium gravel	
	0 - 4.0		4.0			(Groundwater at 3.5')	
5							5.0
						Dark brownish gray clay with little silt, trace fine sand	
	4.0 -8.0		4.0				8.0
10						Bottom of boring	
15							
20							
25							
30							
						Field Indicators:	
						- staining from 3.5'-5.0'	
						- fuel oil odor from 3.5'-5.0'	
						Temporary Well Installation:	
						- 1" dia. well installed at -7.5'	
						- well screen from -7.5 to -2.5'	
						- pvc riser from -2.5' to 2.5'	
						- sand pack fom -7.5' to -2.0'	
						- hole plug from -2.0' to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 4/20/05
DATE COMPLETE: 4/20/05

HOLE NO. TW-16
SURF. EL. 404.32
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Skid Mounted Geo. Probe Rig with 4' Macro Cores **Logged by:** DTH

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
5	0 - 4.0		2.5			Brown moist fine to medium sand, trace fine to medium gravel (Groundwater at 3.5')	5.0
10	4.0 -8.0		3.0			Dark blackish gray clay with little silt, trace fine sand	8.3
15						Bottom of boring	
20							
25							
30							
						Field Indicators: - staining from 1.0'-8.0' - strong odor from 1.0'-8.0'	
						Temporary Well Installation: - 1" dia. well installed at -7.5' - well screen from -7.5 to -2.5' - pvc riser from -2.5' to 2.5' - sand pack fom -7.5' to -2.0' - hole plug from -2.0' to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 4/20/05
DATE COMPLETE: 4/20/05

HOLE NO. TW-17
SURF. EL. 404.67
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Skid Mounted Geo. Probe Rig with 4' Macro Cores **Logged by:** DTH

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown moist fine to medium sand, trace fine to medium gravel	
	0 - 4.0		2.5			(Groundwater at 3.5')	
5							5.0
						Dark blackish gray clay with little silt, trace fine sand	
	4.0 -8.0		3.0				8.3
10						Bottom of boring	
15							
20							
25							
30							
						Field Indicators: - staining from 1.0'-8.0' - strong odor from 1.0'-8.0'	
						Temporary Well Installation: - 1" dia. well installed at -7.5' - well screen from -7.5 to -2.5' - pvc riser from -2.5' to 2.5' - sand pack fom -7.5' to -2.0' - hole plug from -2.0' to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 4/20/05 **DATE COMPLETE:** 4/20/05

HOLE NO. TW-18
SURF. EL. 404.55
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Skid Mounted Geo. Probe Rig with 4' Macro Cores **Logged by:** DTH

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown to dark brown fine to medium sand, some fine to medium gravel, trace coarse gravel, trace brick	
	0 - 4.0		3.5			(Groundwater at 3.5')	
5							7.2
	4.0 -8.0		3.0			Dark brown to grey moist silt, little clay, & trace fine sand	8.0
10						Bottom of last recovery	
	8.0-12.0		0.0			(no recovery from 8.0-12.0)	12.0
15						Bottom of Boring	
20							
25							
30							
						Field Indicators:	
						- none detected	
						Temporary Well Installation:	
						- 1" dia. well installed at -10.0'	
						- well screen from -10.0 to 0.0'	
						- pvc riser from 0.0' to 2.5'	
						- sand pack fom -10.0' to -0.5'	
						- hole plug from -0.5' to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 4/20/05 **DATE COMPLETE:** 4/20/05

HOLE NO. TW-19
SURF. EL. 405.34
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Skid Mounted Geo. Probe Rig with 4' Macro Cores **Logged by:** DTH

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown dry medium to coarse sand, trace silt, & trace medium to coarse gravel with brick fragments	
	0 - 4.0		3.0			(Groundwater at 3.5')	
5							6.0
	4.0 -8.0		2.7			Grey to black silt, some fine sand, trace clay, & trace fine gravel with brick fragments	8.0
10						Dark brown to grey clay with some silt	
	8.0-12.0		3.0				12.0
15						Bottom of Boring	
20							
25							
30						Field Indicators: - staining from 3.5'-6.0' - strong gasoline odor with sheen at 3.5'	
						Temporary Well Installation: - 1" dia. well installed at -12.0' - well screen from -12.0 to -2.0' - pvc riser from -2.0' to 3.0' - sand pack fom -12.0' to -1.0' - hole plug from -1.0' to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 4/20/05 **DATE COMPLETE:** 4/20/05

HOLE NO. TW-20
SURF. EL. 407.22
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Skid Mounted Geo. Probe Rig with 4' Macro Cores **Logged by:** DTH

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown dry fine to medium sand, some silt, trace medium to coarse gravel	
	0 - 4.0		4.0				
5						(Groundwater at 4.7')	4.7
						Dark brown to grey moist silt, little fine sand, & trace fine gravel	6.7
	4.0 -8.0		3.2			Brown fine to medium sand, little silt, & trace clay trace fine gravel with brick fragments	
10							10.0
	8.0-12.0		4.0			Black moist ot wet silt, some clay, & trace wood	12.0
						Bottom of Boring	
15							
20							
25							
30							
						Field Indicators: - gasoline odor at 4.7'	
						Temporary Well Installation: - 1" dia. well installed at -12.0' - well screen from -12.0 to -2.0' - pvc riser from -2.0' to 3.0' - sand pack fom -12.0' to -1.5' - hole plug from -1.5' to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 4/20/05 **DATE COMPLETE:** 4/20/05

HOLE NO. TW-21
SURF. EL. 405.17
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Skid Mounted Geo. Probe Rig with 4' Macro Cores **Logged by:** DTH

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown dry medium to coarse sand, little silt, trace medium to coarse gravel with brick fragments (Groundwater at 3.0')	3.5
5	0 - 4.0		4.0			Brown to grey dry silt, little fine to medium sand, trace fine to medium gravel	
10	4.0 -8.0		2.8				9.5
	8.0-12.0		3.5			Black dry to moist clay, some silt, & trace gravel	12.0
15						Bottom of Boring	
20							
25							
30							
						Field Indicators: - staining from 3.5'-12.0' - fuel oil/gasoline odor from 3.5'-9.5'	
						Temporary Well Installation: - 1" dia. well installed at -12.0' - well screen from -12.0 to -2.0' - pvc riser from -2.0' to 3.0' - sand pack fom -12.0' to -1.0' - hole plug from -1.0' to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 4/20/05 **DATE COMPLETE:** 4/20/05

HOLE NO. TW-22
SURF. EL. 405.59
JOB NO. 2003118
GROUNDWATER DEPTH WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Skid Mounted Geo. Probe Rig with 4' Macro Cores **Logged by:** DTH

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown dry medium to coarse sand, trace silt, & medium to coarse gravel with brick fragments (Groundwater at 3.0')	
	0 - 4.0		3.2				
5							5.5
						Grey moist silt, some fine to medium sand, trace gravel with brick fragments	
	4.0 -8.0		3.0				
10							10.0
						Dark brown to grey clay, little-some silt, trace gravel	
	8.0-12.0		3.0			with brick fragments	12.0
						Bottom of Boring	
15							
20							
25							
30							
						Field Indicators:	
						- fuel oil odor from 3.0'-10.0'	
						Temporary Well Installation:	
						- 1" dia. well installed at -12.0'	
						- well screen from -12.0 to -2.0'	
						- pvc riser from -2.0' to 3.0'	
						- sand pack fom -12.0' to -1.0'	
						- hole plug from -1.0' to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 4/20/05 **DATE COMPLETE:** 4/20/05

HOLE NO. TW-23
SURF. EL. 407.94
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Skid Mounted Geo. Probe Rig with 4' Macro Cores **Logged by:** DTH

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown dry medium to coarse sand, little medium to coarse gravel, trace silt with brick fragments (Groundwater at 3.5')	
	0 - 4.0		2.0				
5							5.5
						Dark brown to grey moist to wet silt, little fine sand trace clay with brick fragments	
	4.0 -8.0		2.0				8.5
10						Dark brown moist clay and silt, trace fine sand	
	8.0-12.0		2.0				12.0
15						Bottom of Boring	
20							
25							
30							
						Field Indicators:	
						- fuel oil odor from 3.5'-8.5'	
						- slight odor from 8.5'-12.0'	
						Temporary Well Installation:	
						- 1" dia. well installed at -12.0'	
						- well screen from -12.0 to -2.0'	
						- pvc riser from -2.0' to 3.0'	
						- sand pack fom -12.0' to -1.0'	
						- hole plug from -1.0' to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 4/22/05 **DATE COMPLETE:** 4/22/05

HOLE NO. TW-24
SURF. EL. 408.25
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Skid Mounted Geo. Probe Rig with 4' Macro Cores **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Brown moist fine to medium sand, trace silt & fine to medium gravel with organics	
	0 - 4.0		2.0				
5							5.0
						Grey moist silt, some fine to medium sand, & trace organics (Groundwater at 8.5')	
	4.0 -8.0		2.0				
10							10.5
						Dark brown grey clay, some silt, & trace sand & gravel	
	8.0-12.0		4.0				12.0
						Bottom of Boring	
15							
20							
25							
30							
						Field Indicators:	
						- staining from 5.0'-10.5'	
						- odor from 5.0'-11.5'	
						Temporary Well Installation:	
						- 1" dia. well installed at -12.0'	
						- well screen from -12.0 to -2.5'	
						- pvc riser from -2.5' to 2.5'	
						- sand pack fom -12.0' to -2.0'	
						- hole plug from -2.0' to grade	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 4/22/05 **DATE COMPLETE:** 4/22/05

HOLE NO. TW-26/SB-79
SURF. EL. 409.17
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Skid Mounted Geo. Probe Rig with 4' Macro Cores **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Surface organics	0.2
						Brown fine to medium sand, with trace gravel & brick fragments	
	0 - 4.0	0.0	3.5				
5						(Groundwater at 4.5')	
	4.0 -8.0	1.2	4.0				8.0
10						Brown fine to medium sand, with concrete	10.0
						Brown to grey clay, with silt, & trace brick fragments	
	8.0-12.0	3.1	3.5				12.0
15						Bottom of Boring	
20							
25						Field Indicators: - staining from 8.0'-10.0' - sheen from 8.0'-10.0' - fuel oil odor from 8.0'-10.0'	
30						Temporary Well Installation: - 1" dia. well installed at -12.0' - well screen from -12.0 to -2.5' - pvc riser from -2.5' to 0.2' - sand pack fom -12.0' to -2.0' - hole plug from -2.0' to grade - top of well covered with sand for protection	
						Samples collected: Depth: Time: 0' - 4.0' 10:08 AM 4.0' - 8.0' 10:22 AM 8.0' - 12.0' 10:36 AM	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 4/22/05 **DATE COMPLETE:** 4/22/05

HOLE NO. SB-77
SURF. EL.
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED
SHEET 1 OF 1

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

Skid Mounted Geo. Probe Rig with 4' Macro Cores **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Surface organics	0.2
						Brown fine to medium sand, with trace silt, & organics (Groundwater at 3.5')	
	0 - 4.0	0.0	2.5				
5							5.0
						Brown fine to medium sand, with trace silt, & organics & heavy brick fragments	
	4.0 -8.0	0.0	3.5				8.5
10						Brown to grey clay	
						(poor recovery on first attempt, overdrove to 12.5'	
	8.0-12.0	0.0	0.5			on second attempt)	12.5
		0.0	3.0			Bottom of Boring	
15							
20							
25							
30							
						Field Indicators:	
						- sheen at ground water interface - 3.5'	
						Samples collected:	
						Depth: Time:	
						0' - 4.0' 11:39 AM	
						4.0' - 8.0' 11:51 AM	
						8.0' - 12.0' 12:05 AM	

PLUMLEY ENGINEERING, P.C.
TEST BORING LOG

PROJECT: Matt's Petroleum Site
LOCATION: Leland Ave. Utica, New York
DATE STARTED: 4/22/05 **DATE COMPLETE:** 4/22/05

HOLE NO. SB-78
SURF. EL.
JOB NO. 2003118
GROUNDWATER DEPTH
WHILE DRILLING
BEFORE CASING REMOVED
AFTER CASING REMOVED

N -- NO. OF BLOWS TO DRIVE SAMPLER 12" W/140# HAMMER FALLING 30" -- ASTM D-1586, STANDARD PENETRATION TEST

SHEET 1 OF 1

Skid Mounted Geo. Probe Rig with 4' Macro Cores **Logged by:** CIG

DEPTH	SAMPLE DEPTH (Ft.)	PID (ppm)	Recovery (ft.)	SAMPLE DRIVE RECORD PER 6"	N	DESCRIPTION OF MATERIAL	STRATA CHANGE DEPTH
						Surface organics	0.2
						Brown fine to medium sand, with trace gravel & brick fragments	
	0 - 4.0	0.0	2.0			(Groundwater at 3.5')	
5							
						Brown fine to medium sand, with trace gravel & heavy brick fragments	
	4.0 -8.0	0.3	3.0				9.0
10						Brown to grey clayey silt, with trace sand	
	8.0-12.0	0.6	2.5				12.0
						Bottom of Boring	
15							
20							
25							
30							
						Field Indicators:	
						- sheen at ground water interface - 3.5'	
						Samples collected:	
						Depth: Time:	
						0' - 4.0' 10:47 AM	
						4.0' - 8.0' 11:09 AM	
						8.0' - 12.0' 11:26 AM	

APPENDIX D

GROUNDWATER SAMPLING FIELD LOGS

2 VOA
1 AMBER.

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: MRTT'S [illegible]
Monitoring Location: MW-1
Source Description:

Initial Depth to Water: 7.58 ft.
Purge Volume Calculation:
Total Depth: 17.00 ft.
Length of Column: 9.42 ft.

Well Diameter (in.):

1	LWC*	0.041	=		Gal.
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
(2)	LWC*	0.163 x 3	=	4.6	Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/29/04
Time: From: 12.18 To: 12:36

Equipment Used:
Purge: Teflon Bailer Other: PLASTIC
Sample: Teflon Bailer Other:

Sample Data: Date: 6/30/04
Time: @ 11:26 am

Depth to Water at Sampling: 7.11 ft.

Color of Sample: clear Turbidity: none

Notes:
F.P.C. - No sheen/odor on F.P.
H_2O - SHEEN OF F.P DURING PURGING
TURBIDITY & ODOR PRESENT - 8.87 @ 12:36
First cut → Use of new & previously used odor during sample

Sampled By: JMW Weather: Sunny 70s

Revised: 1/21/97

2 MWS
2 Amber S

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Matt's Petroleum
Monitoring Location: MW-2
Source Description: 2" Dia. MW

Initial Depth to Water: 11.42 ft.
Purge Volume Calculation:
Total Depth: 16.5 ft.
Length of Column: 5.08 ft.

Well Diameter (in.):

1	LWC*	0.041	=		Gal.
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
(2)	LWC*	0.163 X3	=	2.5	Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/29/04
Time: From: 12:18 To: 12:41

Equipment Used:
Purge: Teflon Bailer Other: Peristaltic Pump
Sample: Teflon Bailer Other: Peristaltic Pump

Sample Data: Date: 6/29/04
Time: 13:50 AM

Depth to Water at Sampling: 11.42 ft.

Color of Sample: Cloudy Turbidity: Some

Notes:
FPC — ODOR (STRONG) NO SHEEN OR FF
PURGING — ODOR SLIGHT SHEEN, NOT P. 15:21 @ 1:17
3 GALLONS RECOVERED
SAMPLE — STRONG ODOR, NO SHEEN, NOT P.

Sampled By: CK/SM Weather:

Revised: 1/21/97

2 VOA
1 Amber

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Matt's Petro
Monitoring Location: MW-3
Source Description: 2-inch dia - groundwell

Initial Depth to Water: 6.10 ft.
Purge Volume Calculation:
Total Depth: 15.37 ft.
Length of Column: _____ ft.

Well Diameter (in.):

1	LWC*	0.041	=	_____	Gal.
1.25	LWC*	0.064	=	_____	Gal.
1.5	LWC*	0.092	=	_____	Gal.
2	LWC*	0.163	=	_____	Gal.
3	LWC*	0.367	=	_____	Gal.
4	LWC*	0.653	=	_____	Gal.
6	LWC*	1.469	=	_____	Gal.

Purge Data: Date: 6/29/04
Time: From: 1:32 PM To: 1:40 PM

Equipment Used:
Purge: Teflon Bailer Other: Plastic Bailer
Sample: Teflon Bailer Other: _____

Sample Data: Date: 6/30/04
Time: 11:00 a.

Depth to Water at Sampling: 6.21 ft.

Color of Sample: clear Turbidity: Negligible

Notes:
FPC = clear, No sheen, slight Petro degrade smell
Purged wate - turb, slight Petro odor NO sheen.
@ 1:40 PM #20 depth was @ 6.91
first set → clear, no H or sheen, slight odor

Sampled By: JHH Weather: Sunny 70's

Revised: 1/21/97

2 VOAs
2 Amb ars (PCB, SVOC MS only

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Matt's Petro
Monitoring Location: MW-4
Source Description: 2-inch dia. PVC well

Initial Depth to Water: 5.71 ft.
Purge Volume Calculation:
Total Depth: 15.25 ft. (14)
Length of Column: 9.74 ft. 15.25 − 5.71 = 9.74

Well Diameter (in.):

1	LWC*	0.041	=		Gal.
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

6 gallons removed

Purge Data: Date: 6/29/04
Time: From: 11:35AM To: 11:55AM

Equipment Used:
Purge: Teflon Bailer Other: Plastic Bailers
Sample: Teflon Bailer Other:

Sample Data: Date: 6/30/04
Time: 10:11 am

Depth to Water at Sampling: 5.72 ft.

Color of Sample: black Turbidity: Heavy

Notes:
FPC = Slight sheen, Mild Petro odor (fuel oil?), turbid, black
Purged water - sheen, strong odor
@ 11:55 - H2O depth 6.00
offer, purging H2O dark Brown/Black
Effluent - slight sheen, odor, turbid, dark/black

Sampled By: JHN Weather: Sunny 70's

Revised: 1/21/97

2-VOAs
1 Amber 8 VOCs

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Matt's Petro
Monitoring Location: MW-5
Source Description: 2-inch dia well

Initial Depth to Water: 4.83 ft.
Purge Volume Calculation:
Total Depth: 15.35 ft.
Length of Column: _____ ft.

Well Diameter (in.):

1	LWC*	0.041	=	_____	Gal.
1.25	LWC*	0.064	=	_____	Gal.
1.5	LWC*	0.092	=	_____	Gal.
2	LWC*	0.163	=	_____	Gal.
3	LWC*	0.367	=	_____	Gal.
4	LWC*	0.653	=	_____	Gal.
6	LWC*	1.469	=	_____	Gal.

6 gallons removed.

Purge Data: Date: 6/29/04
Time: From: 12:15 PM To: 12:25 PM

Equipment Used:
Purge: Teflon Bailer Other: Plastic Bailer
Sample: Teflon Bailer Other: Rinse Blank

Sample Data: Date: 6/30/04
Time: 10:27 AM

Depth to Water at Sampling: 4.95 ft.

Color of Sample: SLIGHTLY CLOUDY Turbidity: Some

Notes:
FPC = clear, No odor or Sheen
Purged water - slight sheen, Brown, some turbidity
@ 12:30 - H2O @ 7.05
Samples - MW-5 [illegible]

Sampled By: CTG/JDP2 Weather: Sunny 80°

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Mutt's Petroleum
Monitoring Location: MW-6
Source Description: 2" Dia. Monitoring Well

Initial Depth to Water: 6.55 ft.
Purge Volume Calculation:
Total Depth: 15.30 ft.
Length of Column: 8.75 ft.

Well Diameter (in.):

1	LWC*	0.041	=		Gal.
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
(2)	LWC*	0.163 X3	=	4.5	Gal. 6.0 REMOVED
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/29/04
Time: From: 10:38 To: 10:46

Equipment Used:
Purge: Teflon Bailer Other: Plastic Bailer
Sample: Teflon Bailer Other: Plastic Bailer

Sample Data: Date: 6/30/04
Time: 9:35am

Depth to Water at Sampling: 6.65 ft.

Color of Sample: Lt. brown (cloudy) Turbidity: Silty

Notes:
EPC - CLEAR NO SHEEN/ODOR/F.P.
AFTER PURGING D.T.W = 8.70@1043, 6.72@1128
WATER REMAINS TURBID
first set - clear no sheen/odor/F.P. 2nd set turbid

Sampled By: JMW Weather: 70°F Sunny

Revised: 1/21/97

2 VOAs
1 Amber SVOCs

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: MATTIC [illegible]
Monitoring Location: MW-7
Source Description:

Initial Depth to Water: 5.13 ft.
Purge Volume Calculation:
Total Depth: 15.5 ft.
Length of Column: 10.37 ft.

Well Diameter (in.):

1	LWC*	0.041	=		Gal.
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
(2)	LWC*	0.163 X 3	=	3.01	Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/29/04
Time: From: 12:02 To: 12:20

Equipment Used:
Purge: Teflon Bailer Other: PLASTIC BAILER
Sample: Teflon Bailer Other: PLASTIC BAILER

Sample Data: Date: 6/30/04
Time: 10:22 AM

Depth to Water at Sampling: 5.17 ft.

Color of Sample: CLOUDY/CLEAR Turbidity: SLIGHT

Notes:
[illegible] @ 12:22
SAMPLE — ODOR, NO SHEEN OR FP

Sampled By: CLG/JDR2 Weather: SUNNY 80's

Revised: 1/21/97

2 VOA
1 Amber (SVOCs)

PLUMLEY ENGINEERING, P.C.
GROUNDWATER SAMPLING FIELD LOG

Sample Site: Mott's Plaza
Monitoring Location: MW-8
Source Description: 2" dia. perm well

Initial Depth to Water: 6.47 ft.
Purge Volume Calculation:
Total Depth: 10.17 ft.
Length of Column: ft.

10.17
- 6.47
3.70

Well Diameter (in.):

1	LWC*	0.041	=		Gal.
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

3 gallons Removed

Purge Data: Date: 6/29/04
Time: From: 10:55 To: 11:15 (Bailed Dry)

Equipment Used:
Purge: Teflon Bailer Other: Plastic Bailer
*Sample: Teflon Bailer Other: Same

Sample Data: Date: 6/30/04
Time: 9:42

Depth to Water at Sampling: 6.41 ft.

Color of Sample: Clear Turbidity: NO

Notes:
F.P. (Droplets) area that hydraulic line from Ozark Truck
Broke
DTW - 10.40 - 11:15
sed in bottom of well SAMPLE - No Sheen, odor, or F.P.

Sampled By: CIG/JMM Weather: Sunny 80

Revised: 1/21/97

2 VOAs
+ Amber

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: MATT'S PETROLEUM
Monitoring Location: MW-9
Source Description: 2" DIA. MW

Initial Depth to Water: 8.06 ft.
Purge Volume Calculation:
Total Depth: 16.00 ft.
Length of Column: 7.94 ft.

Well Diameter (in.):

1	LWC*	0.041	=		Gal.
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
(2)	LWC*	0.163 X3	=	3.9	Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 10/29/04
Time: From: 2:30 PM To: 2:45 PM

Equipment Used:
Purge: Teflon Bailer Other: PLASTIC BAILER
Sample: Teflon Bailer Other: PLASTIC BAILER

Sample Data: Date: 10/30/04
Time: 11:08

Depth to Water at Sampling: 9.00 ft.

Color of Sample: CLEAR Turbidity: NO

Notes:
F.P.C. - NO F.P./SHEEN OR ODOR 14.40 @ 1.15
PURGE WATER SHEEN & ODOR, NO F.P., TURBIDITY
SAMPLE — ODOR, NO ODOR OR SHEEN

Sampled By: CK/JDP2 Weather: SUNNY 80°

evised: 1/21/97

4 VOA (2WS, 2WSD)
2 Amber (1WS, 1WSD)

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: MATT'S PETROLEUM
Monitoring Location: MW-10
Source Description: 2" DIA. MW

Initial Depth to Water: 4.22 ft.
Purge Volume Calculation:
Total Depth: 15.30 ft.
Length of Column: 11.08 ft.

Well Diameter (in.):

1	LWC*	0.041	=		Gal.
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
(2)	LWC*	0.163 X 3	=	5A	Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 10/29/04
Time: From: 11:32 To: 11:53

Equipment Used:
Purge: Teflon Bailer Other: PLASTIC BAILER
Sample: Teflon Bailer Other: PLASTIC BAILER

Sample Data: Date: 10/29/04
Time: 10:07 AM

Depth to Water at Sampling: 4.02 ft.

Color of Sample: CLEAR Turbidity: NO

Notes:
EPC - CLEAR, NO F.P/SHEEN/ODOR, SLIGHT ODOR WHILE PURGING NOTED, POSSIBLE FUEL ODOR? & TURBIDITY
AFTER PURGING D.T.W = 7.1' @ 11:53
SAMPLE - ODOR, NO SHEEN OR F.P.

Sampled By: CHRIS Weather: SUNNY 50's

Revised: 1/21/97

Done

2 Vials
1 Amber SVOCs

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Matt's [illegible]
Monitoring Location: MW-11
Source Description: 2" dia. perm well

Initial Depth to Water: 4.92 ft.

Purge Volume Calculation:

Total Depth: 15.00 ft.

Length of Column: 10.08 ft.

4.92
15.00
4.92
10.08

Well Diameter (in.):

1	LWC*	0.041	=		Gal.
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=	4.9	Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

10.08 x .163 = 1.64

Purge Data: Date: 6/29/04
Time: From: 10:20 AM To: 10:30

Equipment Used:
Purge: Teflon Bailer Other: Plastic Bailer
Sample: Teflon Bailer Other: Plastic Bailer

Sample Data: Date: 6/30/04
Time: 9:32

Depth to Water at Sampling: 5.03 ft.

Color of Sample: Cloudy/Clear Turbidity: Some

Notes:
FPC= 1st cut - clear No odor or sheen.
After purging water still turbid
Depth to water @ 10:32 - 7.92, 5.03 @ 1130
Sample - [illegible]

Sampled By: CIG Weather: Sunny 80's

Revised: 1/21/97

2 VOAS
2 Ambers.

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: MATT'S PETROLEUM #1
Monitoring Location: MW-12
Source Description: 2" DIA. MW

Initial Depth to Water: 11.41 ft.
Purge Volume Calculation:
Total Depth: 18.00 ft.
Length of Column: 6.59 ft.

Well Diameter (in.):

1	LWC*	0.041	=		Gal.
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163 x 3	=	3.22	Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/29/04
Time: From: 2:10 To: 2:30

Equipment Used:
Purge: Teflon Bailer Other: PLASTIC BAILER
Sample: Teflon Bailer Other: PLASTIC BAILER

Sample Data: Date: 6/30/04
Time: 11:22 AM

Depth to Water at Sampling: 11.38 ft.

Color of Sample: CLOUDY Turbidity: SOME

Notes:
E.P.C. — NO SHEEN/ODOR, NO F.P.
PURGING — TURBIDITY 13.01 @ 1.3', SLIGHT SHEEN
4 GALLONS RECOVERED
SAMPLE — SLIGHT ODOR, NO SHEEN OR F.P.

Sampled By: CG
Weather: [illegible]

Revised: 1/21/97

2 VOAs
2 Ambers (PCB, SVOCs)
6-1

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: MATT'S [illegible]
Monitoring Location: MW-12
Source Description: 2" DIA. MW

Initial Depth to Water: 4.45 ft.
Purge Volume Calculation:
Total Depth: 15.0 ft.
Length of Column: 10.55 ft.

Well Diameter (in.):

1	LWC*	0.041	=		Gal.
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
(2)	LWC*	0.163	=	5.15	Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/29/04
Time: From: 12:30 To: 12:50

Equipment Used:
Purge: Teflon Bailer Other: PEristaltic pump
Sample: Teflon Bailer Other:

Sample Data: Date: 6/30/04
Time: 10:40 AM

Depth to Water at Sampling: 4.68 ft.

Color of Sample: Yellow-brown Turbidity: Slight/moderate

Notes:
F.P.L. - NO F.P./SHEEN OR ODOR / SLIGHT SHEEN
[illegible] = 10:32 @ 12:50
first cut → clear, slight odor / sheen, Turbidity during sampl.

Sampled By: MW Weather: sunny 70's

Revised: 1/21/97

2 VOAs
1 Amber SVOC

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Matt's Petro
Monitoring Location: MW-14
Source Description: 2-inch dia perm well

Initial Depth to Water: 5.68 ft.
Purge Volume Calculation:
Total Depth: 15.32 ft.
Length of Column: _____ ft.

Well Diameter (in.):

1	LWC*	0.041	=	_____	Gal.
1.25	LWC*	0.064	=	_____	Gal.
1.5	LWC*	0.092	=	_____	Gal.
2	LWC*	0.163	=	_____	Gal.
3	LWC*	0.367	=	_____	Gal.
4	LWC*	0.653	=	_____	Gal.
6	LWC*	1.469	=	_____	Gal.

Purge Data: Date: 6/29/04
Time: From: 12:35 PM To: 12:50 PM

Equipment Used:
Purge: Teflon Bailer Other: Plastic Bailer
Sample: Teflon Bailer Other: PLASTIC BAILER

Sample Data: Date: 6/30/04
Time: 10:45 AM

Depth to Water at Sampling: 5.71 ft.

Color of Sample: CLEAR Turbidity: NO
FOAMY ?

Notes:
FPL = clear, No odor or sheen
Purged water, odor no sheen
@ 12:50 PM H2O depth @ 8.50
SAMPLES, COOL, NO F.P. OR SHEEN

Sampled By: CG Weather: SUNNY 80°

Revised: 1/21/97

2 VOA
1 amber SVOC

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: MATT'S
Monitoring Location: MW-15 (EXISTING NEAR NEW MW-6)
Source Description: [illegible] MW

Initial Depth to Water: 11.18 ft.

Purge Volume Calculation:

Total Depth: 1800 ft.

Length of Column: 6.82 ft.

Well Diameter (in.):

1	LWC*	0.041	=		Gal.
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
(2)	LWC*	0.163 x 3	=	3.4	Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/29/04
Time: From: 10:47 To:

Equipment Used:
Purge: Teflon Bailer Other: PLASTIC BAILER
Sample: Teflon Bailer Other: Same

Sample Data: Date: 6/30/04
Time: 1:42 pm

Depth to Water at Sampling: 11.96 ft.

Color of Sample: [illegible] Turbidity: very little

Notes:
FPC - CLEAR NO F.P./SHEEN/ODOR
AFTER PURGING D.T.W = 14.58
NO TURBIDITY
[illegible]

Sampled By: JHL Weather: sunny 70's

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: MATT PETROLEUM

Monitoring Location: MW-10

Source Description: ______

Initial Depth to Water: 7.54 ft.

Purge Volume Calculation:

Total Depth: 14.50 ft.

Length of Column: 6.96 ft.

Well Diameter (in.):

1	LWC*	0.041	=		Gal.
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163 X3	=	3.4	Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/13/05

Time: From: 10:51 To: 11:02

Equipment Used:

Purge: Teflon Bailer Other: POLY

Sample: Teflon Bailer Other: POLY

Sample Data: Date: 6/13/05

Time: 12:30 PM

Depth to Water at Sampling: 7.54 ft.

Color of Sample: CLOUDY [illegible] Turbidity: 30%

Notes:

SHEEN & STRONG ODOR [illegible]

Sampled By: CJG

Weather: [illegible]

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Matts Petro
Monitoring Location: TW-1/SB-48
Source Description: Temp Well

Initial Depth to Water: 4.62 ft.
Purge Volume Calculation:
Total Depth: 7.3 ft.
Length of Column: 2.68 ft.

Well Diameter (in.):

1	LWC*	0.041	=	.10988	Gal. · 3296 gpd
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/30/04
Time: From: 2:45 To: 2:50

Equipment Used:
Purge: Teflon Bailer Other: Peristaltic Pump
Sample: Teflon Bailer Other:

Sample Data: Date: 7/1/04
Time: 11:36

Depth to Water at Sampling: _____ ft.

Color of Sample: Brown Turbidity: Yes

Notes:
F.P. check - strong odor, high turbidity, layer of sediment,
no F.P.
Purge - strong odor, SLIGHT SHEEN
SAMPLE - ODOR, SLIGHT SHEEN, NO F.P.

Sampled By: CH/DLC Weather: Sunny

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Mobil Pt Inn
Monitoring Location: IW2/SB-47
Source Description: Temp well

Initial Depth to Water: 4.70 ft.
Purge Volume Calculation:
Total Depth: 7.20 ft.
Length of Column: 2.5 ft.

Well Diameter (in.):

1	LWC*	0.041	=	.1025	Gal. .2,075
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/30/04
Time: From: 2:52 To: 2:59

Equipment Used:
Purge: Teflon Bailer Other: Peristaltic Pump
Sample: Teflon Bailer Other:

Sample Data: Date: 7/1/04
Time: 11:38

Depth to Water at Sampling: _____ ft.

Color of Sample: Cloudy Turbidity: Yes

Notes:
F.P. Check = droplets of sheen, turbidity, odor, no F.P.
Purge - Slight sheen, odor
Sample - odor, sheen, no F.P.

Sampled By: CM/DEZ Weather: Sunny 70's

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Mattis Petro
Monitoring Location: TW-3/SB-44
Source Description: Temp Well

Initial Depth to Water: 3.21 ft.
Purge Volume Calculation:
Total Depth: 7.0 ft.
Length of Column: 3.79 ft.

Well Diameter (in.):

1	LWC*	0.041	=	.15539	Gal. .46617 gal
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/30/04
Time: From: 2:58 To: 3:02

Equipment Used:
Purge: Teflon Bailer Other: Peristaltic Pump
Sample: Teflon Bailer Other:

Sample Data: Date: 7/1/04
Time: 11:17

Depth to Water at Sampling: ____ ft.

Color of Sample: ____ Turbidity: ____

Notes:
F.P. Check → strong odor, no ... slight turbidity
PURGING – ODOR STRONG, NO ... OR F.P.
Sampled → ODOR & SH..., ... @ 11:17 – VOC's ...

Sampled By: CK/... Weather: Sunny ...

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Marks Temp
Monitoring Location: TW-4/SB-41
Source Description: Temp Well

Initial Depth to Water: 4.0 ft.
Purge Volume Calculation:
Total Depth: 7.5 ft.
Length of Column: 3.5 ft.

Well Diameter (in.):

1	LWC*	0.041	=	.1435	Gal. - 4305 gpm
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/30/04
Time: From: 3:03 To: 3:07

Equipment Used:
Purge: Teflon Bailer Other: Peristaltic Pump
Sample: Teflon Bailer Other:

Sample Data: Date: 7/1/04
Time: 12.10

Depth to Water at Sampling: _____ ft.

Color of Sample: Cloudy/ colorless Turbidity: Yes

Notes:
F.P. check - slight sheen, strong odor, high turbidity
Purging - slight sheen & odor, no FP
Sample - slight sheen & odor, no FP

Sampled By: CH/SDC Weather: [illegible]

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: [illegible]
Monitoring Location: MW5 | SB-24
Source Description: [illegible] WC11

Initial Depth to Water: 4.31 ft.
Purge Volume Calculation:
Total Depth: 9.80 ft.
Length of Column: 5.49 ft.

Well Diameter (in.):

1	LWC*	0.041	=	.22509	Gal. .675 gal
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/30/04
Time: From: 3:18 To: 3:22

Equipment Used:
Purge: Teflon Bailer Other: Peristaltic Pump
Sample: Teflon Bailer Other:

Sample Data: Date: 7/1/64
Time: 10:50

Depth to Water at Sampling: _____ ft.

Color of Sample: Brown Turbidity: Yes

Notes:
F.P. check < 1/16" (stained outside of bailer) sheen, slight turbidity, odor (1/2 GALLON RECOVERY)
PURGE - TURBID, ODOR & SHEEN, NO F.P.
SAMPLE - SHEEN, ODOR, PRODUCT on BAILER & TUBE

Sampled By: CK/TDF Weather: SUNNY 70's

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Motts Petro
Monitoring Location: TW-6 | SB-31
Source Description: Temp Well

Initial Depth to Water: 5.55 ft.
Purge Volume Calculation:
Total Depth: 14.50 ft.
Length of Column: 8.95 ft.

Well Diameter (in.):

1	LWC*	0.041	=	0.36695	Gal. 1.100 g
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/30/04
Time: From: 2:30 To: 2:40

Equipment Used:
Purge: Teflon Bailer Other: Rulstadt Pump
Sample: Teflon Bailer Other:

Sample Data: Date: 7/1/04
Time: 9:15

Depth to Water at Sampling: _____ ft.

Color of Sample: Clear Turbidity: NO

Notes:
F.P. Check - SI sheen, strong odor, no f.p. turbid
[illegible]

Sampled By: [illegible] Weather: [illegible]

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Mathis Ridge
Monitoring Location: TW-7 (Sh-3)
Source Description: Temp Well

Initial Depth to Water: 3.36 ft.
Purge Volume Calculation:
Total Depth: 9.40 ft.
Length of Column: 6.04 ft.

Well Diameter (in.):

1	LWC*	0.041	=	.2476	Gal. .7429 gal
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/30/04
Time: From: 3:09 To: 3:16

Equipment Used:
Purge: Teflon Bailer Other: Peristaltic Pump
Sample: Teflon Bailer Other:

Sample Data: Date: 7/1/04
Time: 11:55

Depth to Water at Sampling: _____ ft.

Color of Sample: Cloudy/Brown Turbidity: Yes

Notes:
F.P. checked → Kerosene odor, slight sheen, no
F.P. & turbidity, brown
Purge - Slight sheen, odor, no F.P.
Sample - Slight sheen, odor, no F.P.

Sampled By: CMG/EHC Weather: Sunny 80°

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Mallis Petro
Monitoring Location: TW-8, SB-62
Source Description: Temp Well

Initial Depth to Water: 14.6 ft.
Purge Volume Calculation:
Total Depth: 14.90 ft.
Length of Column: .80 ft.

Well Diameter (in.):

1	LWC*	0.041	=	.0328	Gal. .098 gal
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/30/04
Time: From: 2:47pm To: _____
dry

Equipment Used:
Purge: Teflon Bailer Other: Peristaltic Pump
Sample: Teflon Bailer Other: _____

Sample Data: Date: 7/1/04
Time: 1:15

Depth to Water at Sampling: _____ ft.

Color of Sample: Brown Turbidity: High

Notes:
F.P. check → strong odor, Slight Sheen, turbidity, no F.P.
well dry
SAMPLE: - 0 silt from bottom

Sampled By: CG/JC Weather: Sunny

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.
GROUNDWATER SAMPLING FIELD LOG

Sample Site: Malls Petro
Monitoring Location: TW-9/SP-13
Source Description: Temp. well

Initial Depth to Water: 7.99 ft.
Purge Volume Calculation:
Total Depth: 14.80 ft.
Length of Column: 6.81 ft.

Well Diameter (in.):

1	LWC*	0.041	=	.279	Gal. .838 gals
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/30/04
Time: From: 2:52 pm (3:34 pm) To: 2:57 (3:38 pm)

Equipment Used:
Purge: Teflon Bailer Other: Peristaltic Pump
Sample: Teflon Bailer Other:

Sample Data: Date: 7/1/04
Time: 10:53

Depth to Water at Sampling: ______ ft.

Color of Sample: Cloudy [illegible] Turbidity: Some

Notes:
F.P. Check → Strong odor, no sheen or free product
slight turbidity → purge → strong odor, high turbidity
slight sheen → purged 0.8 gal [illegible]
[illegible]
[illegible]

Sampled By: [illegible] Weather: [illegible]

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Mw-1 thru 13-09

Monitoring Location: TW-10 thru P-59

Source Description: Temp well

Initial Depth to Water: 8.12 ft.

Purge Volume Calculation:

Total Depth: 13.80 ft.

Length of Column: 5.68 ft.

Well Diameter (in.):

1	LWC*	0.041	=	.23288	Gal. .6996 gpm
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/30/04

Time: From: 3:55pm To: 3:59 pm

Equipment Used:

Purge: Teflon Bailer Other: Peristaltic Pump

Sample: Teflon Bailer Other:

Sample Data: Date: 7/1/04

Time: 727

Depth to Water at Sampling: _____ ft.

Color of Sample: Cloudy Turbidity: Some

Notes:

F.P. check → odor, cloudy, turbidity, no sheen, no F.P.

Purge → Turbid, purged ~.6 gpm

Sample → OP CT, NO headspace

Sampled By: [illegible] Weather: sunny 80°

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.
GROUNDWATER SAMPLING FIELD LOG

Sample Site: Matts Petro
Monitoring Location: TW-11/SB-60
Source Description: Temp well

Initial Depth to Water: 5.98 ft.
Purge Volume Calculation:
Total Depth: 14.50 ft.
Length of Column: 8.52 ft.

Well Diameter (in.):

1	LWC*	0.041	=	.34932	Gal. 1.05
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/30/04
Time: From: 3:48pm To: 3:53pm

Equipment Used:
Purge: Teflon Bailer Other: Peristaltic Pump
Sample: Teflon Bailer Other:

Sample Data: Date: 7/1/04
Time: 9:40

Depth to Water at Sampling: ______ ft.

Color of Sample: [illegible] Turbidity: [illegible]

Notes:
f.p. check → no sheen, slight turbidity, slight odor
purge → turbid, slight odor, purged [illegible] gal
Sample [illegible]

Sampled By: [illegible] Weather: [illegible] 70°

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Mills Tesoro
Monitoring Location: TW-12/SB-61
Source Description: Temp Well

Initial Depth to Water: 9.91 ft.
Purge Volume Calculation:
Total Depth: 13.70 ft.
Length of Column: 3.79 ft.

Well Diameter (in.):

1	LWC*	0.041	=	.1554	Gal. .4662gal
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/30/04
Time: From: 3:15pm To: 3:23pm

Equipment Used:
Purge: Teflon Bailer Other: Peristaltic Pump
Sample: Teflon Bailer Other:

Sample Data: Date: 7/1/04
Time: 10:01

Depth to Water at Sampling: ft.

Color of Sample: Turbidity: YES

Notes:
F.P. check → light sheen, light odor, no F.P.
high turbidity → dk. Brown
purge - turn to turbidity, sheen, odor > 1gal purged
- SHEEN, NO F.P.

Sampled By: Weather:

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Mobil Pelham
Monitoring Location: TW-13/DB-10
Source Description: Temp Well

Initial Depth to Water: 10.20 ft.
Purge Volume Calculation:
Total Depth: 14.5 ft.
Length of Column: 4.3 ft.

Well Diameter (in.):

1	LWC*	0.041	=	.1763	Gal. .5289 gal
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/30/04
Time: From: 3:02 To: 3:12pm
dry

Equipment Used:
Purge: Teflon Bailer Other: Peristaltic Pump
Sample: Teflon Bailer Other:

Sample Data: Date: 7/1/04
Time: 10:22 – Well Bailed Dry Return @ [illegible]

Depth to Water at Sampling: ft.

Color of Sample: Brown Turbidity: Yes

Notes:
F.P. check → turbid, no f.p. odor, too heavy, brown (reddish)
Purge → high turbidity, no odor, [illegible]
Recovering
SAMPLE – Shiny [illegible]

Sampled By: CM/JW Weather: Sunny

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Matts Petro
Monitoring Location: TW-14/SB-5
Source Description: Temp Well

Initial Depth to Water: 6.92 ft.

Purge Volume Calculation:

Total Depth: 9.80 ft.
Length of Column: 2.88 ft.

Well Diameter (in.):

1	LWC*	0.041	=	.1181	Gal. . 3542 gal
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 6/30/04
Time: From: 3:41pm To: 3:46pm

Equipment Used:

Purge: Teflon Bailer Other: Peristaltic Pump
Sample: Teflon Bailer Other:

Sample Data: Date: 7/1/04
Time: 1228

Depth to Water at Sampling: ft.

Color of Sample: Cloudy/clear Turbidity: Some

Notes:

F.P. check → Strong odor, Slight sheen, high turbidity, no F.P. → light brn. Purge → 5 gal, Slight sheen, purged dry, SAMPLE → odor, slight sheen, no F.P. clear

Sampled By: CIG/JDP2 Weather: Sunny 90's

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.
GROUNDWATER SAMPLING FIELD LOG

Sample Site: MATT PETROLEUM
Monitoring Location: TW-26 EL-[illegible]
Source Description:

Initial Depth to Water: 7.80 ft.
Purge Volume Calculation:
Total Depth: 11.35 ft.
Length of Column: 3.55 ft.

Well Diameter (in.):

(1)	LWC*	0.041	x3 =	0.12	Gal.
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 10/13/05
Time: From: 10:38 To: 10:43

Equipment Used:
Purge: Teflon Bailer Other: GEO. PUMP
Sample: Teflon Bailer Other: GEO PUMP

Sample Data: Date: 10/13/05
Time: 12:17 PM

Depth to Water at Sampling: 7.80 ft.

Color of Sample: CLOUDY/CLEAR W/SHEEN Turbidity: 10%

Notes:
ODOR & SLIGHT SHEEN WATER FROM PUMP
* MS & MSD COLLECTED FROM THIS LOCATION

Sampled By: CLC Weather: SUNNY LOW 90's

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Matt's Petroleum
Monitoring Location: PSB-62/TW
Source Description:

Initial Depth to Water: dry ft.
Purge Volume Calculation:
Total Depth: 15.00 ft.
Length of Column: ____ ft.

Well Diameter (in.):

1	LWC*	0.041	=		Gal.
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: ____
Time: From: ____ To: ____

Equipment Used:
Purge: Teflon Bailer Other: ____
Sample: Teflon Bailer Other: ____

Sample Data: Date: ____
Time: ____

Depth to Water at Sampling: ____ ft.

Color of Sample: ____ Turbidity: ____

Notes:
well remained dry & no sample was collected

Sampled By: SAZ/CIG Weather: ____

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Matt's Petroleum
Monitoring Location: PSB-63/TW
Source Description:

Initial Depth to Water: 11.58 ft.
Purge Volume Calculation:
Total Depth: 15.00 ft.
Length of Column: 3.42 ft.

Well Diameter (in.):

1	LWC*	0.041	=	0.14	Gal.
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 9/27/04
Time: From: ~~1515~~ 1500 To: ~~1525~~ 1505

Equipment Used:
Purge: Teflon Bailer Other: peristaltic
Sample: Teflon Bailer Other: peristaltic + bailer

Sample Data: Date: 9/27/04
Time: ~~1525~~ 1512

Depth to Water at Sampling: _____ ft.

Color of Sample: brown Turbidity: slightly turbid

Notes:
no sheen, odor, FP observed

Sampled By: SAZ/CG Weather: _____

Revised: 1/21/97

PLUMLEY ENGINEERING, P.C.

GROUNDWATER SAMPLING FIELD LOG

Sample Site: Matt's Petroleum
Monitoring Location: PSB-64/TW
Source Description:

Initial Depth to Water: 3.48 ft.
Purge Volume Calculation:
Total Depth: 3.89 ft.
Length of Column: 0.41 ft.

Well Diameter (in.)

1	LWC*	0.041	=	0.02	Gal.
1.25	LWC*	0.064	=		Gal.
1.5	LWC*	0.092	=		Gal.
2	LWC*	0.163	=		Gal.
3	LWC*	0.367	=		Gal.
4	LWC*	0.653	=		Gal.
6	LWC*	1.469	=		Gal.

Purge Data: Date: 9/27/04
Time: From: 1515 To: 1525

Equipment Used:
Purge: Teflon Bailer Other: peristaltic
Sample: Teflon Bailer Other: peristaltic + bailer

Sample Data: Date: 9/27/04
Time: 1535

Depth to Water at Sampling: _____ ft.

Color of Sample: dk brown/black Turbidity: turbid

Notes:
slight sheen & odor observed on sample

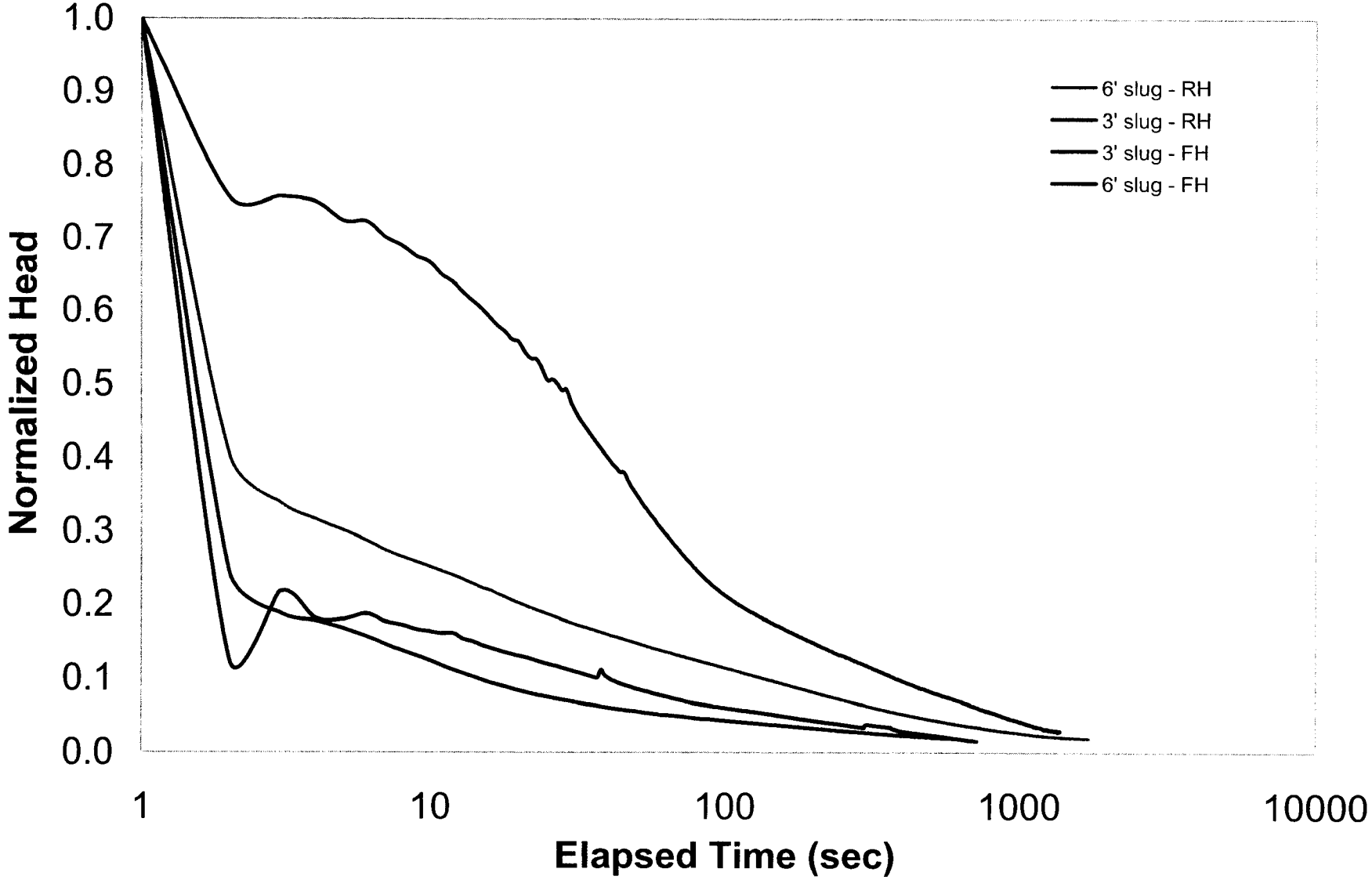
Sampled By: SAZ/CIG Weather: _____

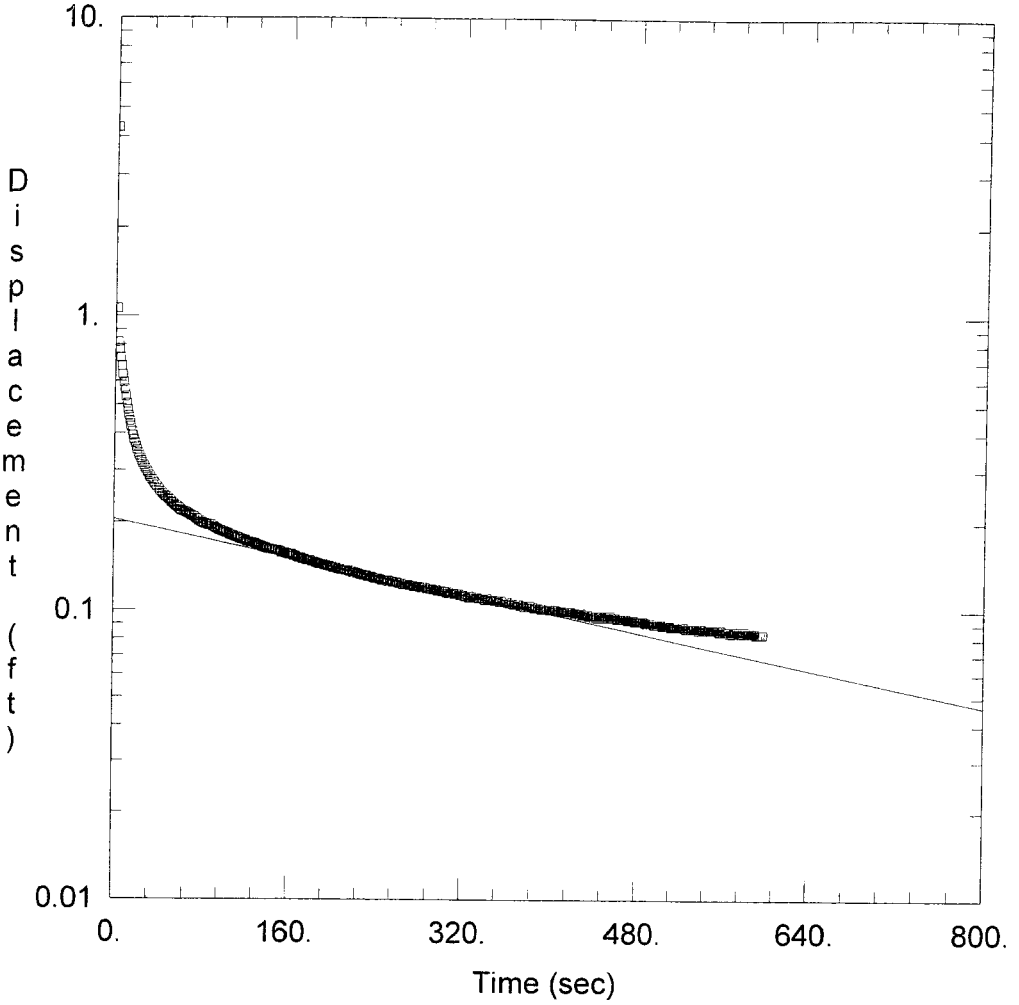
Revised: 1/21/97

APPENDIX E

SLUG TEST ANALYSES

MW-1 SLUG TESTING





MW-1 - RISING HEAD - 3 FT SLUG

Data Set: F:\2003118.00\HYDROL~1\SLUGTE~1\AQTFIL~1\MW1SRH.AQT
Date: 06/03/05 Time: 15:14:23

PROJECT INFORMATION

Company: PLUMLEY ENGINEERING
Client: CITY OF UTICA
Project: 2003118.014
Test Location: MATTS PETROLEUM
Test Well: MW-1
Test Date: 5/19/05

AQUIFER DATA

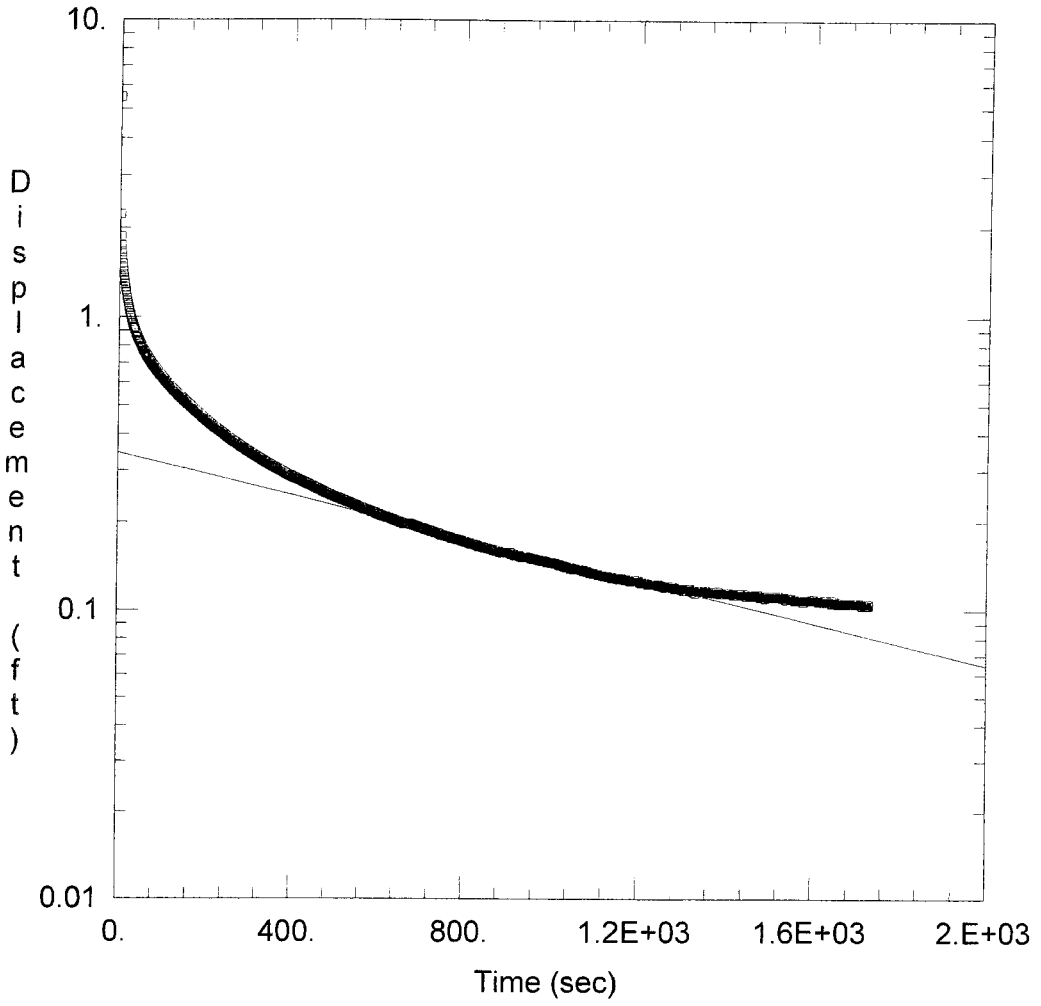
Saturated Thickness: 9.38 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 4.307 ft
Casing Radius: 0.1845 ft
Screen Length: 6.38 ft
Water Column Height: 6.38 ft
Wellbore Radius: 0.34 ft
Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 9.712 gal/day/ft^2
y0 = 0.2048 ft



MW-1 - RISING HEAD - 6 FT SLUG

Data Set: F:\2003118.00\HYDROL~1\SLUGTE~1\AQTFIL~1\MW1BRH.AQT
Date: 06/03/05 Time: 14:52:21

PROJECT INFORMATION

Company: PLUMLEY ENGINEERING
Client: CITY OF UTICA
Project: 2003118.014
Test Location: MATTS PETROLEUM
Test Well: MW-1
Test Date: 5/19/05

AQUIFER DATA

Saturated Thickness: 9.38 ft
Anisotropy Ratio (Kz/Kr): 1.

WELL DATA

Initial Displacement: 5.488 ft
Casing Radius: 0.1845 ft
Screen Length: 6.38 ft
Water Column Height: 6.38 ft
Wellbore Radius: 0.34 ft
Gravel Pack Porosity: 0.25

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice
K = 4.396 gal/day/ft^2
y0 = 0.346 ft

MW-2 SLUG TESTING