

**APPENDIX C**  
SOIL BORING & WELL CONSTRUCTION LOGS



# V3 Boring Log Report

**Boring Name** JD-GP-01

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Drums and ASTs
<b>X Coordinate:</b> 1158998.00	<b>Y Coordinate:</b> 1813522.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1145 4/2/2012	<b>Finish:</b> 1230 4/2/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Blank Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1  2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	9.7		70	Fill- gray ish black- sand and gravel with asphalt, glass, plastic, slag, and rubber/leather wires--dense--moist--	Slight petroleum odor 2-4 ft.	
2	15	1.5		Fill- black- silty clay-low plasticity-stiff-low cohesion-moist--	No petroleum or solvent odors	
4	0	2	80	Fill- dark gray - silty clay with trace sand and gravel, glass, and plant roots-low plasticity-very stiff-low cohesion-moist--	No petroleum or solvent odors	JD-GP-01(4-6)
6	0	3		Fill- gray to dark gray - silty clay with trace sand and gravel and bricks-low plasticity-very stiff-low cohesion-moist--	No petroleum or solvent odors	
8						
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-02

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Drums and ASTs
<b>X Coordinate:</b> 1159009.00	<b>Y Coordinate:</b> 1813536.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1245 4/2/2012	<b>Finish:</b> 1315 4/2/2012	<b>Depth to Water During Drilling (ft):</b> 7	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Band Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1  2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples	
0	0						
0.9			80	Fill- dark gray ish black- sand and gravel with bricks and asphalt--dense--moist--	No petroleum or solvent odors	JD-GP-02(3-5)	
2	0.1	4.5					
	0.7	4.5		Fill- dark gray ish black- silty clay with trace sand and gravel-low plasticity-hard-low cohesion-moist--	No petroleum or solvent odors		
4	0.4	3	80	Fill- dark gray ish brown- silty clay with trace sand and little gravel-low plasticity-very stiff-low cohesion-wet/saturated--clay becomes softer with depth	Wet at 7ft., no petroleum or solvent odors		
	0.1	3					
6	0	1.5					
	0	1.5					
8							
10							
12							
14							
16							
18							
20							

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-03

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Drums and ASTs
<b>X Coordinate:</b> 1158990.00	<b>Y Coordinate:</b> 1813543.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1315 4/2/2012	<b>Finish:</b> 1345 4/2/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Bad Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1  2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0.2			Fill- gray ish black- sand and gravel with some clay and silt, asphalt, and slag--dense--moist--	Slight petroleum odor 2-4 ft.	JD-GP-03(1-3)
2	0		70			
	24.8			Fill- gray to dark gray - silty clay with trace to little sand and gravel, bricks, and plant roots-low plasticity-stiff-low cohesion-moist--	No petroleum or solvent odors	
4	27.5					
	3.57	1		Fill- gray - silt--stiff--moist--	No petroleum or solvent odors	
6	1.26	1	70			
	2.85	1		Fill- grayish black to brown- silty clay-high plasticity-stiff-high cohesion-moist--	No petroleum or solvent odors	
8	0.1	1				
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-04

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Drums and ASTs
<b>X Coordinate:</b> 1158988.00 <b>Y Coordinate:</b> 1813528.00 <b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>				
<b>Start:</b> 1345 4/2/2012	<b>Finish:</b> 1430 4/2/2012	<b>Depth to Water During Drilling (ft):</b> 4	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>End Drilling Interval(s):</b>
<b>Drilling Methods:</b> 1 Direct Push 2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0.4			Fill- dark grayish black- sand and gravel with some silt, glass, slag, and tire/rubber--dense--moist--	No petroleum or solvent odors	JD-GP-04(1-3)
2	0		50			
4	0	2	75	Fill- dark gray - silty clay with trace to some sand and gravel-low plasticity -very stiff-low cohesion-wet/saturated--	Wet at 4 ft., no petroleum or solvent odors	
6	0	2				
8	0	4.5				
10	0	4.5				
12				Fill- dark grayish brown- silty clay with with trace sand and gravel and wood -moderate plasticity -hard-moderate cohesion-moist--	No petroleum or solvent odors	
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-06

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 16	<b>Station/Boring Location Description:</b> Close to Midlothian Creek
<b>X Coordinate:</b> 1159129.00	<b>Y Coordinate:</b> 1813586.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1610 4/2/2012	<b>Finish:</b> 1640 4/2/2012	<b>Depth to Water During Drilling (ft):</b> 10	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Bad Drilling Interval(s):</b>
<b>Drilling Methods:</b> 1 Direct Push 2	<b>Depth (ft):</b> 16	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0					
0.1						
2	0	3	60	Fill- dark gray ish brown to black- sand and gravel with some clay , asphalt, and glass--dense--moist--	No petroleum or solvent odors	
4	0	3				
4	0	2				
6	0	2	50	Fill- dark gray ish brown- silty clay with trace sand and gravel-low plasticity -stiff-low cohesion-moist--	No petroleum or solvent odors	JD-GP-06(4-6)
6	0	1.5				
8	0	1.5		CL (Lean Clay)- gray - silty clay with trace sand and plant roots-low plasticity -stiff-low cohesion-moist--	No petroleum or solvent odors	
8	0	1.5				
10	0	1.5	50	ML (Silt)- gray - sandy silt with little clay ----wet/saturated--	Wet at 10ft., no petroleum or solvent odors	
10	0	0.5				
12	0	0.5		CL (Lean Clay)- gray - silty clay with trace sand-moderate plasticity -medium cons.-moderate cohesion-moist--	No petroleum or solvent odors	
12	0	1				
14	0	1	50	ML (Silt)- gray - clay ey silt----moist--	No petroleum or solvent odors	
14	0	1		CL (Lean Clay)- gray - silty clay -high plasticity-medium cons.-high cohesion-moist--	No petroleum or solvent odors	
14	0	1		ML (Silt)- black- clay ey silt with trace sand and plant roots----moist--	No petroleum or solvent odors	
16						
18						
20						

**END OF BORING (FT): 16**



# V3 Boring Log Report

**Boring Name** JD-GP-07

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159146.00	<b>Y Coordinate:</b> 1813552.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1650 4/2/2012	<b>Finish:</b> 1705 4/2/2012	<b>Depth to Water During Drilling (ft):</b> 4	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Band Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	
1				
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0.1			Fill- gray to dark gray - sand and gravel with some silt, little clay, and plastic--dense--moist--	No petroleum or solvent odors	JD-GP-07(1-3)
2	0	2.5	80			
4	0.1	3.5		Fill- gray to dark gray - silty clay with trace sand and gravel-low plasticity-very stiff-low cohesion-moist--	No petroleum or solvent odors	
6	0			Fill- gray - asphalt--very dense--wet/saturated--	Wet at 4 ft., no petroleum or solvent odors	
8	0	0.5	50			
8				CL (Lean Clay)- gray - silty clay with trace sand -low plasticity-soft-low cohesion-moist--	No petroleum or solvent odors	
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-08

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159192.00 <b>Y Coordinate:</b> 1813547.00 <b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>				
<b>Start:</b> 1715 4/2/2012	<b>Finish:</b> 1745 4/2/2012	<b>Depth to Water During Drilling (ft):</b> 6	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Bad Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1  2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0					
0	0					
2	1.5		90	Fill- dark gray ish brown to black- sand and gravel with little silt and clay , asphalt, bricks, and wood-dense--moist--silt content increases with depth	No petroleum or solvent odors	
4	0.2					
4	0.1	1		Fill- gray to dark gray - silty clay with sand, gravel, and silt-low plasticity -stiff-low cohesion-moist--	No petroleum or solvent odors	JD-GP-08(4-6)
6	0	1	50			
6	0	1.5		Fill- gray to dark gray - silty clay with asphalt-low plasticity -stiff-low cohesion-wet/saturated--	Wet at 6 ft., no petroleum or solvent odors	
8	0	1.5				
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**





# V3 Boring Log Report

**Boring Name** JD-GP-09

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6		<b>Project #:</b> *09073A2008		<b>Geo/Engineer Name:</b> Kristine Wright		<b>Total Depth (ft):</b> 8		<b>Station/Boring Location Description:</b> Repair Garage and Chemical Storage	
<b>X Coordinate:</b> 1159028.00		<b>Y Coordinate:</b> 1813524.00		<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>					
<b>Start:</b> 850 4/3/2012		<b>Finish:</b> 930 4/3/2012		<b>Depth to Water During Drilling (ft):</b>		<b>Depth to Water Post Drilling (ft) :</b>		<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Blank Drilling Interval(s):</b>	
<b>Drilling Methods:</b> Direct Push 1		<b>Depth (ft):</b> 8		<b>Borehole Dia (in):</b> 2.25		<b>Boring Backfill Method:</b> Soil cuttings			
2									

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0.4		80	Fill- dark gray ish black- sand and gravel with little clay and asphalt--loose--moist--	No petroleum or solvent odors	JD-GP-09(6-8)
	2.6			Fill- red- bricks--dense--dry--	No petroleum or solvent odors	
2	0.9	2		Fill- gray to dark gray - silty clay with some sand and gravel and bricks-low plasticity -v ery stiff-low cohesion-moist--	No petroleum or solvent odors	
	1.2	2				
4	1.3	3	80	Fill- gray to dark gray - silty clay with gravel, bricks, glass, and plastic-low plasticity -v ery stiff-low cohesion-moist--	No petroleum or solvent odors	
	0.6	3				
6	0.7	3.5				
	0.7	3.5				
8				CL (Lean Clay)- gray - silty clay with trace sand and gravel-low plasticity -v ery stiff-low cohesion-moist--	No petroleum or solvent odors	
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-10

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Repair Garage and Chemical Storage
<b>X Coordinate:</b> 1159061.00	<b>Y Coordinate:</b> 1813527.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 930 4/3/2012	<b>Finish:</b> 1000 4/3/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Blank Drilling Interval(s):</b>
<b>Drilling Methods:</b> 1 Direct Push 2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples	
0	1.5		75	Fill- grayish black- sand and gravel with little clay , asphalt, and bricks--dense--moist--	No petroleum or solvent odors	JD-GP-10(1-3)	
				Fill- dark gray - silty clay with little sand and gravel-low plasticity-very stiff-low cohesion-moist--	No petroleum or solvent odors		
2	2.3						
	1.5	3	50	Fill- gray to dark gray - silty clay with sand and gravel, asphalt, and plant roots-low plasticity-very stiff-low cohesion-moist--	No petroleum or solvent odors		
4	1.1	3					
	0.5	1			Fill- dark grayish brown- silty clay with sand and gravel-low plasticity-stiff-low cohesion-moist--		No petroleum or solvent odors
6	0.7	1					
	0.6	1			Fill- gray - gravel--dense--moist--		No petroleum or solvent odors
	0.4	1		ML (Silt)- gray - sandy silt----moist--	No petroleum or solvent odors		
8				CL (Lean Clay)- gray - silty clay with trace sand-moderate plasticity-stiff-moderate cohesion-moist--	No petroleum or solvent odors		
10							
12							
14							
16							
18							
20							

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-11

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Repair Garage and Chemical Storage
<b>X Coordinate:</b> 1159059.00	<b>Y Coordinate:</b> 1813550.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1000 4/3/2012	<b>Finish:</b> 1030 4/3/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Blank Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	2.8		90	Fill- dark gray - sand and gravel--dense--moist--	No petroleum or solvent odors	JD-GP-11(4-6)
				Fill- red- bricks----dry--	No petroleum or solvent odors	
	2.1			Fill- brownish black- silt with sand and gravel----moist--	No petroleum or solvent odors	
2	1.4		50	Fill- gray to dark gray - silty clay with sand and gravel, glass, and wood-low plasticity -very stiff-low cohesion-moist--	No petroleum or solvent odors	
	0.6					
4	3.6					
	0.7		50	Fill- dark gray ish brown- silty clay fill with trace sand and gravel-low plasticity -stiff-low cohesion-moist--	No petroleum or solvent odors	
6	0.5					
	0.4			CL (Lean Clay)- gray - silty clay with trace sand-moderate plasticity -stiff-moderate cohesion-moist--	No petroleum or solvent odors	
8						
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

Boring Name JD-GP-12

soil sampling

Project Name: South COD - Area 2 Sites 5 and 6	Project #: *09073A2008	Geo/Engineer Name: Kristine Wright	Total Depth (ft): 8	Station/Boring Location Description: Auto Junk Yard
X Coordinate: 1159110.00	Y Coordinate: 1813530.00	Ground Elevation (ft -approx): 595 <i>State Plane (Illinois East), USFeet</i>		
Start: 1030 4/3/2012	Finish: 1115 4/3/2012	Depth to Water During Drilling (ft): 5	Depth to Water Post Drilling (ft):	Drilling Company, Equipment and Crew: IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed Borehole Drilling Interval(s):
Drilling Methods: 1 Direct Push 2	Depth (ft): 8	Borehole Dia (in): 2.25	Boring Backfill Method: Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples	
0	3.4		75	Fill- dark gray - sand and gravel with little silt, asphalt, and glass--dense--moist--	No petroleum or solvent odors	JD-GP-12(6-8)	
0.5							
2	1.5			Fill- dark gray - silty clay with sand and gravel--low plasticity --low cohesion--moist--	No petroleum or solvent odors		
				Fill- black- sandy silt with gravel---moist--	No petroleum or solvent odors		
4	1.2		50	Fill- gray to dark gray - silty clay with sand and gravel--low plasticity --low cohesion--moist--	No petroleum or solvent odors		
	0.3						
6	0.1			Fill- dark grayish black- asphalt--dense--wet/saturated--	Wet at 5 ft., no petroleum or solvent odors		
	0.1						
8	0.2			CL (Lean Clay)- gray - silty clay with sand--low plasticity -v ery stiff--low cohesion--moist--	No petroleum or solvent odors		
10							
12							
14							
16							
18							
20							

END OF BORING (FT): 8



# V3 Boring Log Report

**Boring Name** JD-GP-13

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159157.00 <b>Y Coordinate:</b> 1813528.00 <b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>				
<b>Start:</b> 1115 4/3/2012	<b>Finish:</b> 1145 4/3/2012	<b>Depth to Water During Drilling (ft):</b> 4	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>End Drilling Interval(s):</b>
<b>Drilling Methods:</b> 1 Direct Push 2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0.3		90	Fill- dark gray ish black- silt, sand, and gravel with glass and rubber--dense--moist--	No petroleum or solvent odors	JD-GP-13(1-3)
0.6		Fill- dark gray ish black- silt with sand, gravel, and bricks--dense--moist--		No petroleum or solvent odors		
2	0.4			Fill- dark gray ish black- sand and gravel with little silt and clay --dense--moist--	No petroleum or solvent odors	
4	0.4			Fill- dark gray ish black- sandy silt with bricks--dense--wet/saturated--	Wet at 4 ft., no petroleum or solvent odors	
6	0		40	Fill- dark gray ish black- asphalt--dense--wet/saturated--	No petroleum or solvent odors	
6	0					
8	0					
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-14

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159281.00	<b>Y Coordinate:</b> 1813530.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1150 4/3/2012	<b>Finish:</b> 1220 4/3/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>End Drilling Interval(s):</b>
<b>Drilling Methods:</b> 1 Direct Push 2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	1.5		90	Fill- grayish black- sand and gravel with asphalt and glass--dense--moist--	No petroleum or solvent odors	JD-GP-14(1-3)
2	21.2			Fill- dark gray - sand and gravel with some clay and silt, asphalt, and glass--dense--moist--sand content increases with depth	Slight petroleum odor 1-4ft.	
	0.8	4				
	0.8	4				
4	0.8	3.5	70	Fill- black to dark gray - silty clay with trace sand and gravel, bricks, and plant roots-low plasticity -very stiff-low cohesion-moist--	No petroleum or solvent odors	
6	0.6	3.5				
	0.4	2.5			Fill- gray to dark gray - sand and gravel with little clay and silt, glass, car break lights, and wood--dense--moist--	No petroleum or solvent odors
	0.4	2.5				
8						
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-15

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159346.00	<b>Y Coordinate:</b> 1813525.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1220 4/3/2012	<b>Finish:</b> 1300 4/3/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Band Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1  2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	8.6		90	Fill- gray to dark gray - sand and gravel with some silt, little clay, bricks, and glass--dense--moist--	Slight petroleum odor at 1 ft.	
1	6.4					
2	1.2	4.5				
3	5.2	4.5		Fill- dark gray ish brown- fine sand--dense--moist--	No petroleum or solvent odors	
4	0.5	1.5	80	Fill- dark gray - sand and gravel--dense--moist--	No petroleum or solvent odors	
5	0.2	1.5				
6	0.8	2.5				
7	0.8	2.5				
8						
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-17

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159454.00	<b>Y Coordinate:</b> 1813522.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1430 4/3/2012	<b>Finish:</b> 1500 4/3/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>End Drilling Interval(s):</b>
<b>Drilling Methods:</b> 1 Direct Push 2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	2.6					
2	2.6		100	Fill- dark brownish gray - sand and gravel with asphalt, glass, plant roots, rubber tire, and wood--dense--moist--	No petroleum or solvent odors	JD-GP-17(1-3)
4	0.1			Fill- grayish brown- silty clay with trace sand and gravel and wood--low plasticity --low cohesion--moist--	No petroleum or solvent odors	
6	0.8		80	Fill- dark brownish gray - sand and gravel with asphalt, glass, plant roots, rubber tire, and wood--dense--moist--	No petroleum or solvent odors	
8	0.1			Fill- brown- fine sand with gravel and wood--dense--moist--	No petroleum or solvent odors	
10	0					
12	0			Fill- dark gray - sandy silt with little clay ----moist--	No petroleum or solvent odors	
14						
16						
18						
20						

**END OF BORING (FT): 8**





# V3 Boring Log Report

**Boring Name** JD-GP-18

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 12	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159547.00	<b>Y Coordinate:</b> 1813503.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1500 4/3/2012	<b>Finish:</b> 1530 4/3/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>End Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1  2	<b>Depth (ft):</b> 12	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	385			Fill- dark gray - sand and gravel with asphalt, glass and wood--dense--moist--	Strong gasoline odor at 1 ft.	JD-GP-18(1-3)
2	24.4		100			
2	0.4			Fill- dark grayish brown- silty clay with sand and gravel, bricks, and wood-low plasticity --low cohesion-moist--	No petroleum or solvent odors	
4	0.3					
4	9.8			Fill- dark grayish brown - sand and gravel with bricks and glass--dense--moist--	No petroleum or solvent odors	
6	0.5		75			
6	0.6			Fill- dark grayish brown- silty clay with sand and gravel, asphalt, and wood-low plasticity --low cohesion-moist--	No petroleum or solvent odors	
8	0					
8	6.3			Fill- dark grayish brown- clayey silt with plant roots and wood----moist--	No petroleum or solvent odors	
10	1.2		50			
10	0			Fill- dark gray - sand and gravel--dense--moist--	No petroleum or solvent odors	
12	0					
12				Fill- brownish gray - silty clay with sand and gravel and wood-low plasticity --low cohesion-moist--	No petroleum or solvent odors	
14						
16						
18						
20						

**END OF BORING (FT): 12**



# V3 Boring Log Report

**Boring Name** JD-GP-19

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Close to Midlothian Creek
<b>X Coordinate:</b> 1159547.00	<b>Y Coordinate:</b> 1813548.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1530 4/3/2012	<b>Finish:</b> 1610 4/3/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>End Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1  2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0					
1	0		80	Fill- gray to dark gray - sand and gravel with little clay , asphalt, and glass--dense--moist--	No petroleum or solvent odors	JD-GP-19(1-3)
2	0	2				
3	0	2		Fill- grayish brown- silty clay with sand and gravel-low plasticity-very stiff-low cohesion-moist--	No petroleum or solvent odors	
4	0		50	Fill- dark brown- clayey silt with trace sand and wood----moist--	No petroleum or solvent odors	
5	0					
6	0					
7	0					
8	0			Fill- - wood, gravel, and rope----moist--	No petroleum or solvent odors	
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-20

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159581.00	<b>Y Coordinate:</b> 1813512.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1610 4/3/2012	<b>Finish:</b> 1630 4/3/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Bind Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1  2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0.1		100	Fill- dark gray - sand and gravel with asphalt and glass--dense--moist--	No petroleum or solvent odors	JD-GP-20(1-3)
0.1						
2	0.1		50	Fill- grayish brown- silty clay with sand and gravel and asphalt-low plasticity --low cohesion-moist--	No petroleum or solvent odors	
4	9.1					
4	1.5					
6	0.4		50	Fill- gray to dark gray - silty clay with sand and gravel and bricks-low plasticity --low cohesion-moist--	No petroleum or solvent odors	
6	0					
8	0					
8				Fill- - bricks, plastic, styrofoam, wood----moist--	No petroleum or solvent odors	
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-21

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 16	<b>Station/Boring Location Description:</b> Close to Midlothian Creek
<b>X Coordinate:</b> 1159681.00	<b>Y Coordinate:</b> 1813516.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1630 4/3/2012	<b>Finish:</b> 1735 4/3/2012	<b>Depth to Water During Drilling (ft):</b> 10	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Band Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1  2	<b>Depth (ft):</b> 16	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0.2		90	Fill- black to dark gray - sand and gravel with asphalt--dense--moist--	No petroleum or solvent odors	JD-GP-21(4-6)
0.1		Fill- dark gray - silty clay with sand and gravel-low plasticity --low cohesion-moist--		No petroleum or solvent odors		
2	0.6			Fill- limestone/gravel----dry--	No petroleum or solvent odors	
4	0.3		50	Fill- gray to dark gray - silty clay with sand and gravel and bricks-low plasticity --low cohesion-moist--	No petroleum or solvent odors	
4	0			Fill- dark gray ish black- sand and gravel with asphalt--dense--moist--	No petroleum or solvent odors	
6	0	2		Fill- dark gray - silty clay with sand and gravel and wood-low plasticity -stiff -low cohesion-moist--	No petroleum or solvent odors	
6	0.2	2				
8	0	1	50	Fill- wood and metal----moist--	No petroleum or solvent odors	
10	0			Fill- gray - coarse sand with gravel--dense--wet/saturated--	Wet at 10 ft., no petroleum or solvent odors	
10	0					
12	0	1	25	CL (Lean Clay)- gray - silty clay with trace sand and plant roots-high plasticity -stiff -high cohesion-moist--	No petroleum or solvent odors	
14	0	1				
14	0	1				
14	0	1				
16						
18						
20						

**END OF BORING (FT): 16**



# V3 Boring Log Report

Boring Name JD-GP-22

soil sampling

Project Name: South COD - Area 2 Sites 5 and 6	Project #: *09073A2008	Geo/Engineer Name: Kristine Wright	Total Depth (ft): 8	Station/Boring Location Description: Auto Junk Yard
X Coordinate: 1159599.00	Y Coordinate: 1813446.00	Ground Elevation (ft -approx): 595 <i>State Plane (Illinois East), USFeet</i>		
Start: 830 4/4/2012	Finish: 930 4/4/2012	Depth to Water During Drilling (ft):	Depth to Water Post Drilling (ft):	Drilling Company, Equipment and Crew: IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed Bund Drilling Interval(s):
Drilling Methods: Direct Push 1	Depth (ft): 8	Borehole Dia (in): 2.25	Boring Backfill Method: Soil cuttings	
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0	4		Fill- dark gray - sand and gravel with asphalt and glass--dense--moist--	No petroleum or solvent odors	
2	0	1	100	Fill- brownish gray - silty clay with sand and gravel, asphalt, plastic, and rubber -low plasticity -very stiff -low cohesion-moist--clay becomes softer with depth	No petroleum or solvent odors	
	0	0.5		Fill- dark gray - silt with little clay and sand and asphalt----moist--	No petroleum or solvent odors	
4	0	1.5		Fill- brownish gray - silty clay with sand and gravel, asphalt, glass, plant roots, and wood-low plasticity -stiff -low cohesion-moist--	No petroleum or solvent odors	JD-GP-22(4-6)
6	0	1.5	80			
	0	1.5				
8				Fill- - bricks----dry--	No petroleum or solvent odors	
10						
12						
14						
16						
18						
20						

END OF BORING (FT): 8

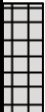



# V3 Boring Log Report

**Boring Name** JD-GP-23

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159553.00	<b>Y Coordinate:</b> 1813427.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 930 4/4/2012	<b>Finish:</b> 1010 4/4/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>End Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0	1	90	 Fill- dark gray - silty clay with sand and gravel and asphalt-low plasticity -stiff-low cohesion-moist--	Sweet smell at 1.5-2 ft.	JD-GP-23(1-3)
0.3	1					
2	0	1.5				
	0	1.5	80	 Fill- blue- poorly graded medium (cemented) sand--hard--moist--  Fill- brown- silty clay with asphalt-low plasticity -stiff -low cohesion-moist--  Fill- dark gray - silty clay with plant roots-low plasticity -v ery stiff-low cohesion-moist--  Fill- dark gray - wood and bricks with little clay , sand, and gravel-low plasticity -v ery stiff-low cohesion-moist--	Sulfur odor	No petroleum or solvent odors
4	0	2.5				
	0	2.5				
6	0	2				
	0	2				
8						
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-24

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159450.00	<b>Y Coordinate:</b> 1813442.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1010 4/4/2012	<b>Finish:</b> 1100 4/4/2012	<b>Depth to Water During Drilling (ft):</b> 6	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Band Drilling Interval(s):</b>
<b>Drilling Methods:</b> 1 Direct Push 2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0				Fill- dark gray - silty clay with sand and gravel-low plasticity --low cohesion-moist--	No petroleum or solvent odors	
2			80	Fill- - wood----moist--	No petroleum or solvent odors	
4	0.1			Fill- grayish brown- silty clay with sand and gravel and bricks-low plasticity --low cohesion-moist--	No petroleum or solvent odors	
6	0.2		60	Fill- dark grayish brown- silty clay with sand and gravel, plant roots, and wood-low plasticity --low cohesion-moist--	No petroleum or solvent odors	
6	0			Fill- dark gray - gravel with some clay --dense--wet/saturated--	Wet at 6 ft., no petroleum or solvent odors	JD-GP-124(6-8) (Duplicate)
8	0.2			Fill- blue- poorly graded medium (cemented) sand--hard--moist--	Sulfur odor	JD-GP-24(6-8) JD-GP-24(6-8)MS/ MSD
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-25

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159006.00	<b>Y Coordinate:</b> 1813465.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1120 4/4/2012	<b>Finish:</b> 1150 4/4/2012	<b>Depth to Water During Drilling (ft):</b> 6.5	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Bad Drilling Interval(s):</b>
<b>Drilling Methods:</b> 1 Direct Push 2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0			Fill- dark gray ish black- sand and gravel with little clay and silt, asphalt, glass, and plant roots--dense--moist--	No petroleum or solvent odors	
1	0					
2	0		60			
3	0					
4	0	1		CL (Lean Clay)- dark gray - silty clay with trace sand and gravel and plant roots-low plasticity -stiff-low cohesion-moist--	No petroleum or solvent odors	JD-GP-25(4-6)
5	0	1				
6	0	2.5	80	CL (Lean Clay)- gray - silty clay with trace sand-moderate plasticity -very stiff-moderate cohesion-wet/saturated--orange mottles, very soft clay 6.5-7 ft.	Wet at 6.5 ft., no petroleum or solvent odors	
7	0	2.5				
8						
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**





# V3 Boring Log Report

**Boring Name** JD-GP-26

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Repair Garage and Chemical Storage
<b>X Coordinate:</b> 1159034.00	<b>Y Coordinate:</b> 1813499.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1150 4/4/2012	<b>Finish:</b> 1220 4/4/2012	<b>Depth to Water During Drilling (ft):</b> 6	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Bad Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0					
2	0	3	70	Fill- black to dark gray - sand and gravel with asphalt and glass--dense--moist--	No petroleum or solvent odors	JD-GP-26(1-3)
4	0	3		Fill- grayish brown- silty clay with plant roots-low plasticity-very stiff-low cohesion-moist--orange mottles	No petroleum or solvent odors	
6	0	1	70	Fill- dark gray - silty clay with sand and gravel, bricks, and glass-low plasticity-stiff-low cohesion-moist--	No petroleum or solvent odors	
6	0	1		Fill- grayish brown- silty clay with sand and gravel and wood-low plasticity-stiff-low cohesion-wet/saturated--	Wet at 6 ft., no petroleum or solvent odors	
8	0	1		CL (Lean Clay)- dark gray - silty clay with trace sand and plant roots-low plasticity-stiff-low cohesion-moist--	No petroleum or solvent odors	
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-27

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159151.00	<b>Y Coordinate:</b> 1813482.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1300 4/4/2012	<b>Finish:</b> 1330 4/4/2012	<b>Depth to Water During Drilling (ft):</b> 5.5	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>End Drilling Interval(s):</b>
<b>Drilling Methods:</b> 1 Direct Push	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0.2	2	70	Fill- dark grayish black- sand and gravel with little clay and silt, asphalt, glass, and plastic--dense--moist--	No petroleum or solvent odors	
0	0	2				
2	0	0.5	70	Fill- brown to dark brown- silty sand with little clay --medium cons.--moist--	No petroleum or solvent odors	
0	0	0.5				
4	0.1	1.5	70	Fill- dark grayish brown- sandy silt with wood--stiff--wet/saturated--	Wet at 5.5 ft., no petroleum or solvent odors	
0	0	1.5				
6	0	1.5				
0	0	1.5				
8	0	1.5		CL (Lean Clay)- dark gray - silty clay with trace sand and plant roots-low plasticity-stiff-low cohesion-moist--	No petroleum or solvent odors	JD-GP-27(6-8)
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-28

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159325.00	<b>Y Coordinate:</b> 1813492.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1330 4/4/2012	<b>Finish:</b> 1400 4/4/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Band Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1  2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0.1	3	100	Fill- dark gray - sand and gravel with some clay , asphalt, bricks, and wood--dense--moist--	No petroleum or solvent odors	JD-GP-28(4-6)
0	0	3				
2	0	4	80	Fill- dark gray to gray - silty clay with sand and gravel-low plasticity -very stiff-low cohesion-moist--	No petroleum or solvent odors	JD-GP-28(4-6)
4	0	4				
4	0	2				
6	0.1	2	80	Fill- brownish gray - asphalt and bricks with sand, gravel, and silt--dense--moist--	No petroleum or solvent odors	JD-GP-28(4-6)
6	0					
8	0.3					
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-29

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Ponded Water
<b>X Coordinate:</b> 1159171.00	<b>Y Coordinate:</b> 1813448.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1400 4/4/2012	<b>Finish:</b> 1430 4/4/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Bad Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1  2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0					
2	0		70	Fill- dark gray ish black- sand and gravel with some clay , asphalt, glass, and wood--dense--moist--	No petroleum or solvent odors	JD-GP-29(1-3)
4	0	3		Fill- dark gray - silty clay with trace sand and gravel, bricks, glass, and plant roots-low plasticity -very stiff-low cohesion-moist--orange and brown mottles	No petroleum or solvent odors	
6	0	3	70	Fill- gray to dark gray - silty clay with trace sand and gravel and plant roots-low plasticity -very stiff-low cohesion-moist--orange mottles	No petroleum or solvent odors	
8	0	3				
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-30

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Ponded Water
<b>X Coordinate:</b> 1159206.00	<b>Y Coordinate:</b> 1813379.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1430 4/4/2012	<b>Finish:</b> 1515 4/4/2012	<b>Depth to Water During Drilling (ft):</b> 6	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Bad Drilling Interval(s):</b>
<b>Drilling Methods:</b> 1 Direct Push 2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0					
2	0		70	Fill- dark gray ish black- sand and gravel with little clay and asphalt--dense--moist--	No petroleum or solvent odors	JD-GP-30(1-3)
4	0	1.5		CL (Lean Clay)- dark gray - silty clay with trace sand and plant roots-low plasticity -stiff -low cohesion-moist--	No petroleum or solvent odors	
6	0	1.5	70	CL (Lean Clay)- gray - silty clay-low plasticity -stiff -low cohesion-moist--orange mottles	No petroleum or solvent odors	
8	0	0.5		ML (Silt)- gray - sandy silt with little clay --soft--wet/saturated--orange mottles	Wet at 6 ft., no petroleum or solvent odors	
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**




# V3 Boring Log Report

**Boring Name** JD-GP-31

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159081.00	<b>Y Coordinate:</b> 1813399.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1515 4/4/2012	<b>Finish:</b> 1550 4/4/2012	<b>Depth to Water During Drilling (ft):</b> 6	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Band Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	
1				
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0.1		100	 Fill- black to dark gray - sand and gravel with little clay , asphalt, bricks, glass--dense--moist--	No petroleum or solvent odors	JD-GP-31(1-3)
0.3						
2	0	2				
	0	2				
4	0	1	50	ML (Silt)- dark gray - clayey silt with trace sand----moist--	No petroleum or solvent odors	
	0	1		ML (Silt)- brown- silt with trace sand----moist--	No petroleum or solvent odors	
6	0	1		ML (Silt)- grayish brown- sandy silt----wet/saturated--	Wet at 6 ft., no petroleum or solvent odors	
8	0	1		CL (Lean Clay)- gray - silty clay with trace sand-high plasticity -medium cons.-high cohesion-moist--	No petroleum or solvent odors	
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-32

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159053.00	<b>Y Coordinate:</b> 1813398.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1550 4/4/2012	<b>Finish:</b> 1640 4/4/2012	<b>Depth to Water During Drilling (ft):</b> 6	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Bad Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0		90	Fill- dark gray to brownish black- sand and gravel with asphalt--dense--moist--	No petroleum or solvent odors	JD-GP-32(4-6)
0.1						
2	0	2	50	Fill- brownish gray to dark gray - clayey silt with trace sand and gravel-low plasticity -very stiff-low cohesion-moist--	No petroleum or solvent odors	
	0	2		CL (Lean Clay)- dark gray - silty clay with trace sand and plant roots-low plasticity-very stiff-low cohesion-moist--	No petroleum or solvent odors	
4	0	0.5		ML (Silt)- brown- sandy silt--soft--wet/saturated--sand content increases with depth	Wet at 6 ft., no petroleum or solvent odors	
6	0	0.5				
	0	1	CL (Lean Clay)- gray - silty clay with plant roots-high plasticity -stiff-high cohesion-moist--orange and brown mottles	No petroleum or solvent odors		
8	0	1				
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-33

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159076.00	<b>Y Coordinate:</b> 1813406.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1640 4/4/2012	<b>Finish:</b> 1710 4/4/2012	<b>Depth to Water During Drilling (ft):</b> 6	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Band Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0.2			Fill- black to dark gray - sand and gravel with asphalt--loose--moist--	No petroleum or solvent odors	
2	0	2	60	Fill- brown to dark gray - silty clay with sand and gravel, plant roots, and wires-low plasticity-very stiff-low cohesion-moist--	No petroleum or solvent odors	JD-GP-33(1-3)
	0	3.5				
	0	3.5				
4	0	0.5		CL (Lean Clay)- dark gray - silty clay with trace sand and plant roots-low plasticity-very stiff-low cohesion-moist--	No petroleum or solvent odors	
	0	0.5		ML (Silt)- gray to brown- clayey silt--soft--moist--	No petroleum or solvent odors	
6	0	0.5	60	CL (Lean Clay)- gray - silty clay-low plasticity-soft-low cohesion-moist--brown mottles	No petroleum or solvent odors	
	0	0.5				
	0	0.5		ML (Silt)- gray to brown- sandy silt--soft-wet/saturated--sand content increases with depth	Wet at 6 ft., no petroleum or solvent odors	
8						
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**





# V3 Boring Log Report

**Boring Name** JD-GP-34

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159082.00	<b>Y Coordinate:</b> 1813385.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1710 4/4/2012	<b>Finish:</b> 1730 4/4/2012	<b>Depth to Water During Drilling (ft):</b> 6	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Band Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0			Fill- dark grayish black- sand and gravel with some clay , asphalt and bricks--dense--moist--	No petroleum or solvent odors	JD-GP-34(4-6)
0	0	2.5	90			
2	0	1.5		Fill- brownish gray to dark gray - silty clay -low plasticity -stiff -low cohesion -moist--	No petroleum or solvent odors	
4	0	1.5				
4	0	0.5		ML (Silt)- brown- clayey silt--soft--moist--	No petroleum or solvent odors	
6	0	0.5		ML (Silt)- brown- sandy silt--soft--wet/saturated--sand content increases with depth	Wet at 6 ft., no petroleum or solvent odors	
6	0	0.5				
8	0	0.5		SM (Silty Sand)- brown- silty sand----wet/saturated--	No petroleum or solvent odors	
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-36

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159271.00 <b>Y Coordinate:</b> 1813423.00 <b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>				
<b>Start:</b> 1030 4/5/2012	<b>Finish:</b> 1100 4/5/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Band Drilling Interval(s):</b>
<b>Drilling Methods:</b> 1 Direct Push 2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0.9	4	90	Fill- black to gray - sand and gravel with asphalt--loose--moist--	No petroleum or solvent odors	
2	1.8	4		Fill- grayish brown- silty clay with sand and gravel, bricks, and wood-low plasticity-v very stiff-low cohesion-moist--	No petroleum or solvent odors	
4	0.7	2.5	70	Fill- brownish black to dark gray - silty clay with sand and gravel-low plasticity-v very stiff-low cohesion-moist--	No petroleum or solvent odors	JD-GP-36(4-6)
6	1.1	2.5		Fill- brown- sand and gravel with little clay, rubber, and wood--dense--moist--	No petroleum or solvent odors	
8	0.7	3.5				
10	0.4	3.5				
12	0.2					
14	0.2					
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-37

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159321.00	<b>Y Coordinate:</b> 1813447.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1100 4/5/2012	<b>Finish:</b> 1150 4/5/2012	<b>Depth to Water During Drilling (ft):</b> 4	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>End Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples	
0	9.3		90	Fill- dark gray ish black- sand and gravel with little clay , asphalt, and wood--hard--moist--	No petroleum or solvent odors	JD-GP-37(1-3)	
1.1	4.5						
2	0.6	3.5	70	Fill- grayish brown- silty clay with sand and gravel and plant roots-low plasticity -very stiff-low cohesion-moist--	No petroleum or solvent odors		
1.5	3.5						
4	0.9	1.5	70	Fill- dark gray - sand and gravel with little clay --stiff --wet/saturated--	Wet at 4 ft., no petroleum or solvent odors		
0.1	1.5						
6	0	4					
0.4	4						
8							
10							
12							
14							
16							
18							
20							

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-38

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Abandoned Garage
<b>X Coordinate:</b> 1159420.00	<b>Y Coordinate:</b> 1813407.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1150 4/5/2012	<b>Finish:</b> 1220 4/5/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>End Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1  2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0	3	80	Fill- dark gray ish brown- silty clay with sand and gravel, asphalt, glass, and wood-low plasticity-very stiff-low cohesion-moist--	No petroleum or solvent odors	JD-GP-38(4-6)
1	0	3				
2	0	3				
3	0	3				
4	0	2	80	Fill- dark gray ish brown- silty clay with sand and gravel, asphalt, and bricks-low plasticity-very stiff-low cohesion-moist--	At 5 ft. blue poorly graded medium sand (cemented) with sulfur smells, no petroleum or solvent odors	JD-GP-38(4-6)
5	0.2	2				
6	0.2	4.5				
7	0	4.5				
8						
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

**Boring Name** JD-GP-39

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 8	<b>Station/Boring Location Description:</b> Abandoned Garage
<b>X Coordinate:</b> 1159409.00	<b>Y Coordinate:</b> 1813397.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1220 4/5/2012	<b>Finish:</b> 1250 4/5/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>End Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1  2	<b>Depth (ft):</b> 8	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0	2.5	90	Fill- dark grayish black- silty clay with sand and gravel, asphalt, bricks, glass, and wood-low plasticity -stiff-low cohesion-moist--	At 3.75 ft. blue poorly graded medium sand (cemented) with sulfur smells, no petroleum or solvent odors	JD-GP-39(1-3)
1	0	2.5				
2	0	1.5				
3	0	1.5				
4	0	2	80	Fill- dark gray - silty clay with trace sand and gravel and wood-low plasticity -very stiff-low cohesion-moist--	No petroleum or solvent odors	
5	0	2				
6	0	4				
7	0	4				
8						
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 8**



# V3 Boring Log Report

Boring Name **JD-GP-41**

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 12	<b>Station/Boring Location Description:</b> Abandoned Garage
<b>X Coordinate:</b> 1159400.00	<b>Y Coordinate:</b> 1813407.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1330 4/10/2012	<b>Finish:</b> 1440 4/10/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Bad Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push	<b>Depth (ft):</b> 12	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	2.4	2				
2	1.7	2	90	Fill- dark gray to gray- silty clay with sand and gravel, bricks, glass, and wood-low plasticity-stiff-low cohesion-moist--	No petroleum or solvent odors	
	1.8	1.5				
4	0.7	1.5				
	0.1			Fill- brown- wood----moist--	No petroleum or solvent odors	JD-GP-41(4-6)
6	0.7		90	Fill- dark grayish black- sand and gravel with asphalt and glass----moist--	No petroleum or solvent odors	
	0.2	4.5		Fill- dark grayish brown- silt, sand, and gravel with bricks----moist--	No petroleum or solvent odors	
8	0.5	4.5		Fill- dark gray - silty clay with rubber tire-low plasticity-hard-low cohesion-moist--	No petroleum or solvent odors	
	0	4		Fill- dark gray - sand clay with bricks-low plasticity -very stiff-low cohesion-wet/saturated--	Wet at 8 ft., no petroleum or solvent odors	
	0	4		Fill- dark gray - silty clay-low plasticity -very stiff-low cohesion-moist--	No petroleum or solvent odors	
10	0		60	Fill- black to grayish red- sand and gravel with asphalt and bricks--dense--wet/saturated--	Wet at 10 ft., no petroleum or solvent odors	
	0					
12						
14						
16						
18						
20						

**END OF BORING (FT): 12**



# V3 Boring Log Report

Boring Name JD-GP-101

soil sampling

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 16	<b>Station/Boring Location Description:</b>
<b>X Coordinate:</b> 1158974.00	<b>Y Coordinate:</b> 1813590.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 815 6/13/2012	<b>Finish:</b> 915 6/13/2012	<b>Depth to Water During Drilling (ft):</b> 10	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> Johnson Probing  6610 DT Geoprobe  Erik Johnson  <b>Blind Drilling Interval(s):</b>
<b>Drilling Methods:</b> 1 Direct Push 2	<b>Depth (ft):</b> 16	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0					
2	1.2		70	Fill- dark gray ish black- sand and gravel with little clay and asphalt--dense--moist--	No petroleum or solvent odors	
4	1.5	2		Fill- dark gray ish black- clayey silt with wood--stiff--moist--	No petroleum or solvent odors	
6	31.5	1	70	Fill- gray - sandy silt----moist--	Slight petroleum odor	
8				Fill- dark gray ish black- sandy silt----moist--	Slight petroleum odor	
8				Fill- dark gray - gravel and asphalt--dense--moist--	Slight petroleum odor	
10	3388	1	70	Fill- dark gray ish black- silty clay with sand, gravel, and wood -low plasticity -stiff -low cohesion-wet/saturated--orange and brown mottles	Wet at 10 ft., strong petroleum and staining	JD-GP-101(8-10)
12	30	1		Fill- dark gray - silty clay intermixed with clayey silt, sand and gravel, wood-low plasticity -stiff -low cohesion-moist--	Slight petroleum odor, no staining	
14	0.5	0.5	90	CL (Lean Clay)- dark gray - silty clay with sand and gravel, plant roots-low plasticity -soft-low cohesion-moist--	No petroleum or solvent odors	
14	0.5	0.5		CL (Lean Clay)- black- silty clay -low plasticity -soft-low cohesion-moist--	No petroleum or solvent odors	
16				CL (Lean Clay)- gray - silty clay with trace sand and gravel, plant roots-low plasticity -soft-low cohesion-moist--	No petroleum or solvent odors	
18						
20						

END OF BORING (FT): 16



# V3 Boring Log Report

**Boring Name** JD-GP-102

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 15	<b>Station/Boring Location Description:</b>
<b>X Coordinate:</b> 1158996.00	<b>Y Coordinate:</b> 1813577.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 915 6/13/2012	<b>Finish:</b> 1020 6/13/2012	<b>Depth to Water During Drilling (ft):</b> 11	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> Johnson Probing  6610 DT Geoprobe  Erik Johnson  <b>Blind Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1  2	<b>Depth (ft):</b> 15	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	2.6	4.5	90	Fill- dark grayish black- sand and gravel with some clay and silt, asphalt and glass --dense--moist--	No petroleum or solvent odors	
2	14	2				
4	741	0.5	80	Fill- gray to dark gray- silty clay with asphalt, bricks, tires, wood, and wires-low plasticity-soft-low cohesion-moist--orange and brown mottles	Slight petroleum odors	
6	3730	1				
8			50	ML (Silt)- dark gray- clayey silt intermixed with silty clay-low plasticity-soft-low cohesion-moist--	Strong petroleum odors and staining	JD-GP-102(8-10)
10	35	0.5		CL (Lean Clay)- dark gray- sandy clay-low plasticity-soft-low cohesion-wet/saturated--orange and brown mottles	Wet at 11 ft., slight petroleum odors and staining	
12				CL (Lean Clay)- dark gray- silty clay with plant roots-low plasticity-soft-low cohesion-moist--	Slight petroleum odors, no staining	
14	5	1		CL (Lean Clay)- black- silty clay intermixed with clayey silt, trace sand and gravel, plant roots-low plasticity-soft-low cohesion-moist--	No petroleum or solvent odors	
16				CL (Lean Clay)- gray- silty clay with trace sand and gravel-low plasticity-stiff-low cohesion-moist--	No petroleum or solvent odors	
18						
20						

**END OF BORING (FT): 15**





# V3 Boring Log Report

**Boring Name** JD-GP-103

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 15	<b>Station/Boring Location Description:</b>
<b>X Coordinate:</b> 1159026.00	<b>Y Coordinate:</b> 1813590.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1020 6/13/2012	<b>Finish:</b> 1130 6/13/2012	<b>Depth to Water During Drilling (ft):</b> 12	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> Johnson Probing  6610 DT Geoprobe  Erik Johnson  <b>Blind Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push	<b>Depth (ft):</b> 15	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	
1				
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0						
2	6.5	4.5	60	Fill- dark grayish black- sand and gravel with little clay , asphalt--dense--moist--	No petroleum or solvent odors	
4	1.8					
6	1.6	1	50	Fill- gray to dark gray - poorly graded fine sand with gravel and wood--dense--moist--	No petroleum or solvent odors	
8	204	1		ML (Silt)- dark gray - clayey silt with sand-low plasticity -soft-low cohesion-moist--	Strong petroleum odors and staining	JD-GP-103(8-10)
10				CL (Lean Clay)- dark gray - sandy clay with trace gravel, plant roots-moderate plasticity-soft-moderate cohesion-moist--	No petroleum or solvent odors	
12	1.4	0.5	50	CL (Lean Clay)- dark gray - silty clay with trace gravel, plant roots-moderate plasticity-soft-moderate cohesion-wet/saturated--brown mottles	Wet at 12 ft., no petroleum or solvent odors	
14	1	0.5		ML (Silt)- black- clayey silt-low plasticity -soft-low cohesion-moist--	No petroleum or solvent odors	
16						
18						
20						

**END OF BORING (FT): 15**



# V3 Boring Log Report

**Boring Name** JD-GP-104

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 15	<b>Station/Boring Location Description:</b>
<b>X Coordinate:</b> 1158996.00	<b>Y Coordinate:</b> 1813551.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1130 6/13/2012	<b>Finish:</b> 1230 6/13/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> Johnson Probing  6610 DT Geoprobe  Erik Johnson  <b>Blind Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1	<b>Depth (ft):</b> 15	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	5.6	4.5	90	Fill- dark gray ish black- sand and gravel with asphalt and glass--loose--moist--	No petroleum or solvent odors	JD-GP-104(0.5-1.5 )
2				Fill- dark gray ish black- silty clay with asphalt-low plasticity-hard-low cohesion-moist--brown mottles	No petroleum or solvent odors	
4	51	1.5	80	Fill- dark gray ish black- sand and gravel with asphalt--loose--moist--	No petroleum or solvent odors	JD-GP-104(5-7)
				Fill- dark gray ish black- silty clay with sand and gravel, blue cloth, glass, and wood-low plasticity-stiff-low cohesion-moist--	Slight petroleum odors	
6	530	3.5		Fill- gray to dark gray - silty clay with sand and gravel, tires-low plasticity -very stiff-low cohesion-moist--	Strong petroleum odors	
				Fill- bluish gray - silty clay -low plasticity-very stiff-low cohesion-moist--brown mottles	Strong petroleum odors	
8	125	3	60	Fill- dark gray ish black- silty clay with sand and gravel-low plasticity -very stiff-low cohesion-moist--	Slight petroleum odors	JD-GP-104(10-12)
				Fill- bluish gray to brownish black- silty clay -low plasticity-very stiff-low cohesion-moist--	Slight petroleum odors	
10	0.5	1.5	60	Fill- gray to dark gray - silty clay -low plasticity -very stiff-low cohesion-moist--	Slight petroleum odors	JD-GP-104(10-12)
12				Fill- gray to dark gray - silty clay with plant roots-low plasticity-very stiff-low cohesion-moist--	No petroleum or solvent odors	
14	0.5	2.5				
16						
18						
20						

**END OF BORING (FT): 15**



# V3 Boring Log Report

**Boring Name** JD-GP-105

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 15	<b>Station/Boring Location Description:</b>
<b>X Coordinate:</b> 1158987.00	<b>Y Coordinate:</b> 1813543.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1230 6/13/2012	<b>Finish:</b> 1330 6/13/2012	<b>Depth to Water During Drilling (ft):</b> 7	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> Johnson Probing  6610 DT Geoprobe  Erik Johnson  <b>Blind Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1  2	<b>Depth (ft):</b> 15	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0						
0 - 2	33		70	Fill- dark gray ish black- sand and gravel with asphalt--loose--moist--	No petroleum or solvent odors	JD-GP-105(0.5-1.5 )
2 - 4	14	3.5				
4 - 6				Fill- gray to dark gray - silty clay with sand and gravel, asphalt and wood -low plasticity -stiff-low cohesion-wet/saturated--	Wet at 7 ft., slight automotive odor	
6 - 8	113	1.5	50			JD-GP-105(5-7)
8 - 10	1.7	1.5				
10 - 12	14	1				
12 - 14			70	Fill- gray to dark gray - silty clay with sand and gravel, wood-low plasticity -stiff-low cohesion-moist--brown mottles	No petroleum or solvent odors	
14 - 16	0	1				
16 - 18						
18 - 20						

**END OF BORING (FT): 15**



# V3 Boring Log Report

**Boring Name** JD-GP-106

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 15	<b>Station/Boring Location Description:</b>
<b>X Coordinate:</b> 1159006.00	<b>Y Coordinate:</b> 1813516.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1330 6/13/2012	<b>Finish:</b> 1430 6/13/2012	<b>Depth to Water During Drilling (ft):</b> 14	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> Johnson Probing  6610 DT Geoprobe  Erik Johnson  <b>Blind Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1	<b>Depth (ft):</b> 15	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0				Fill- dark gray ish black- sand and grav el--dense--moist--	No petroleum or solvent odors	
	0	1.5		Fill- red- bricks--dense--moist--	No petroleum or solvent odors	
2			60	Fill- dark gray ish black- sand and gravel with some clay --dense--moist--	No petroleum or solvent odors	JD-GP-106(1-2)
4	0	1.5		Fill- dark gray ish black- silty clay with sand and gravel, plant roots-low plasticity -stiff-low cohesion-moist--	No petroleum or solvent odors	JD-GP-106(3-5)
6	0	2		Fill- gray to dark gray - silty clay with sand and gravel, glass-low plasticity -stiff-low cohesion-moist--brown mottles	No petroleum or solvent odors	
8	0	2	50	ML (Silt)- dark gray - silt--stiff--moist--	No petroleum or solvent odors	
10				CL (Lean Clay)- gray - silty clay -low plasticity -stiff-low cohesion-moist--	No petroleum or solvent odors	
12	0	4.5	90	CL (Lean Clay)- gray - silty clay with trace sand and gravel-low plasticity -hard-low cohesion-moist--brown mottles	No petroleum or solvent odors	JD-GP-106(10-12)
14	0	4.5		ML (Silt)- gray - clayey silt with some sand---wet/saturated--	Wet at 14 ft., no petroleum or solvent odors	
				CL (Lean Clay)- gray - silty clay -low plasticity -hard-low cohesion-moist--	No petroleum or solvent odors	
16						
18						
20						

**END OF BORING (FT): 15**



# V3 Boring Log Report

**Boring Name** JD-GP-107

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 15	<b>Station/Boring Location Description:</b>
<b>X Coordinate:</b> 1158988.00	<b>Y Coordinate:</b> 1813515.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1430 6/13/2012	<b>Finish:</b> 1530 6/13/2012	<b>Depth to Water During Drilling (ft):</b> 11	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> Johnson Probing  6610 DT Geoprobe  Erik Johnson  <b>Blind Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push	<b>Depth (ft):</b> 15	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	
1				
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0						JD-GP-107(0.5-1.5)
1.5						
2			60	Fill- dark gray ish brown- sand and gravel with little clay , asphalt--dense--moist--	No petroleum or solvent odors	
4	5					JD-GP-107(3-5)
6	0	2	70	Fill- dark gray - silty clay with sand and gravel, glass-low plasticity -stiff -low cohesion-moist--	No petroleum or solvent odors	
8	0	3		OL (Organic Clay/Silt - nonplastic)- black- silt with plant roots----moist--	No petroleum or solvent odors	
10				CL (Lean Clay)- gray - silty clay -low plasticity -hard-low cohesion-moist--orange and brown mottles	No petroleum or solvent odors	JD-GP-107(8-10)
12	0	0.5		CL (Lean Clay)- dark gray - silty clay with sand and gravel-high plasticity -soft-high cohesion-wet/saturated--	Wet at 11 ft., no petroleum or solvent odors	
14	0	4.5	50	CL (Lean Clay)- gray - silty clay -low plasticity -hard-low cohesion-moist--orange and brown mottles	No petroleum or solvent odors	
16						
18						
20						

**END OF BORING (FT): 15**



# V3 Boring Log Report

**Boring Name** JD-GP-108

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 15	<b>Station/Boring Location Description:</b>
<b>X Coordinate:</b> 1159279.00	<b>Y Coordinate:</b> 1813542.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1530 6/13/2012	<b>Finish:</b> 1630 6/13/2012	<b>Depth to Water During Drilling (ft):</b> 11	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> Johnson Probing  6610 DT Geoprobe  Erik Johnson  <b>Blind Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1	<b>Depth (ft):</b> 15	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0				Fill- dark gray ish black- sand and gravel with asphalt--loose--moist--	Strong petroleum odor	JD-GP-108(0.5-1.5 )
2	146	4	100			
4	0.4	3		Fill- dark gray - silty clay with sand and gravel, glass and tires-low plasticity -hard-low cohesion-moist--orange and brown mottles	Strong petroleum odor to 1.5 ft.	JD-GP-108(3-5)
6	0.4	3	100			
8	0	3		Fill- dark gray - sand and gravel with some clay --dense--moist--	No petroleum or solvent odors	
10	0	1		Fill- dark gray - silty clay with gravel, plastic-low plasticity -soft-low cohesion-wet/saturated--	No petroleum or solvent odors	
12			80			
14	0	1		CL (Lean Clay)- dark gray - silty clay with little sand and gravel-low plasticity -stiff-low cohesion-moist--	No petroleum or solvent odors	
16						
18						
20						

**END OF BORING (FT): 15**



# V3 Boring Log Report

**Boring Name** JD-GP-109

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 15	<b>Station/Boring Location Description:</b>
<b>X Coordinate:</b> 1159278.00	<b>Y Coordinate:</b> 1813530.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1630 6/13/2012	<b>Finish:</b> 1730 6/13/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> Johnson Probing  6610 DT Geoprobe  Erik Johnson  <b>Blind Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1 2	<b>Depth (ft):</b> 15	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0	2	100	Fill- dark gray - sand and gravel with silt and clay , asphalt, bricks, glass, and wood--dense--moist--	No petroleum or solvent odors	
2	1.4	2.5	80			
4	16	3	80	Fill- gray to dark gray - silty clay -low plasticity--stiff--low cohesion--moist--brown mottles	No petroleum or solvent odors	
6	0	2	50			
8	0	1.5	50	CL (Lean Clay)- dark gray - silty clay -low plasticity--stiff--low cohesion--moist--	No petroleum or solvent odors	
10	0	1				
12						
14						
16						
18						
20						

**END OF BORING (FT): 15**



# V3 Boring Log Report

**Boring Name** JD-GP-110

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 10	<b>Station/Boring Location Description:</b>
<b>X Coordinate:</b> 1159265.00	<b>Y Coordinate:</b> 1813530.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1730 6/13/2012	<b>Finish:</b> 1800 6/13/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> Johnson Probing  6610 DT Geoprobe  Erik Johnson  <b>Blind Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1 2	<b>Depth (ft):</b> 10	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	60					JD-GP-110(0.5-1.5 )
2			90	Fill- dark gray - sand and gravel with some clay , asphalt, bricks, glass, and plastic--dense--moist--	No petroleum or solvent odors	
4	1					
6	0		70	Fill- dark gray - silty clay with sand and gravel, wood-low plasticity-very stiff-low cohesion-moist--	No petroleum or solvent odors	
8	0					
10				Fill- brown- wood----moist--	No petroleum or solvent odors	
12						
14						
16						
18						
20						

**END OF BORING (FT): 10**





# V3 Boring Log Report

**Boring Name** JD-GP-111

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 10	<b>Station/Boring Location Description:</b>
<b>X Coordinate:</b> 1159279.00	<b>Y Coordinate:</b> 1813518.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 745 6/14/2012	<b>Finish:</b> 930 6/14/2012	<b>Depth to Water During Drilling (ft):</b> 9	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> Johnson Probing  6610 DT Geoprobe  Erik Johnson  <b>Blind Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1  2	<b>Depth (ft):</b> 10	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	35	3.5	80	Fill- dark gray ish black- silty clay with sand and gravel, asphalt, glass, plastic, and tires-low plasticity-very stiff-low cohesion-moist--	Strong petroleum odors to 1 ft.	JD-GP-111(0.5-1.5 )
2	0	1		Fill- dark gray ish black- sand and gravel with some clay , asphalt and bricks--dense--moist--	No petroleum or solvent odors	
4	0		100	Fill- dark gray ish black- sand and gravel with little silt and clay , bricks--dense--moist--	No petroleum or solvent odors	
6	0			Fill- black- asphalt--dense--moist--	No petroleum or solvent odors	
8	0			Fill- dark brownish gray - silt with sand and gravel--dense--moist--	No petroleum or solvent odors	
10	0			Fill- dark gray - silty clay with gravel, bricks-low plasticity -very stiff-low cohesion-wet/saturated--	Wet at 9 ft., no petroleum or solvent odors	
10				- - Refusal at 10 ft.-----		
12						
14						
16						
18						
20						

**END OF BORING (FT): 10**



# V3 Boring Log Report

Boring Name JD-GP-112

soil sampling

Project Name: South COD - Area 2 Sites 5 and 6	Project #: *09073A2008	Geo/Engineer Name: Kristine Wright	Total Depth (ft): 13.5	Station/Boring Location Description:
X Coordinate: 1159543.00	Y Coordinate: 1813503.00	Ground Elevation (ft -approx): 595 <i>State Plane (Illinois East), USFeet</i>		
Start: 930 6/14/2012	Finish: 1030 6/14/2012	Depth to Water During Drilling (ft):	Depth to Water Post Drilling (ft):	Drilling Company, Equipment and Crew: Johnson Probing  6610 DT Geoprobe  Erik Johnson  Blind Drilling Interval(s):
Drilling Methods: Direct Push 1	Depth (ft): 13.5	Borehole Dia (in): 2.25	Boring Backfill Method: Soil cuttings	
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0						
1	4	4.5		Fill- dark gray ish black- sand and gravel, asphalt, glass, wood, and tires--dense--moist--	No petroleum or solvent odors	
2			90			
3				Fill- dark gray - silty clay with sand and gravel, plastic and wood-low plasticity-hard-low cohesion-moist--	No petroleum or solvent odors	
4	0	4.5		Fill- dark gray ish black- sand and gravel--dense--moist--	No petroleum or solvent odors	
5				Fill- dark gray - silty clay with glass-low plasticity-hard-low cohesion-moist--	No petroleum or solvent odors	
6	0	3				
7			60			
8	0	4.5		Fill- dark gray ish black- sand and gravel with some silt and clay, asphalt, bricks, glass, metal, and wood--dense--moist--	No petroleum or solvent odors	
10						
12	0	4.5	70			
14						
16						
18						
20						

END OF BORING (FT): 13.5



# V3 Boring Log Report

Boring Name JD-GP-113

soil sampling

Project Name: South COD - Area 2 Sites 5 and 6	Project #: *09073A2008	Geo/Engineer Name: Kristine Wright	Total Depth (ft): 15	Station/Boring Location Description:
X Coordinate: 1159532.00	Y Coordinate: 1813502.00	Ground Elevation (ft -approx): 595 <i>State Plane (Illinois East), USFeet</i>		
Start: 1030 6/14/2012	Finish: 1130 6/14/2012	Depth to Water During Drilling (ft): 10.5	Depth to Water Post Drilling (ft):	Drilling Company, Equipment and Crew: Johnson Probing  6610 DT Geoprobe  Erik Johnson  Blind Drilling Interval(s):
Drilling Methods: Direct Push 1	Depth (ft): 15	Borehole Dia (in): 2.25	Boring Backfill Method: Soil cuttings	
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0						
2	4	3	90	Fill- dark gray ish black- sand and gravel with some silty and clay, asphalt, bricks, glass, and wood--dense--moist--	No petroleum or solvent odors	
4	0	3				
6	0		80	Fill- dark gray - silty clay with gravel-low plasticity -dense-low cohesion-wet/saturated--	Wet at 10.5 ft., no petroleum or solvent odors	
8	0					
10	0		80	Fill- dark gray - silty clay with sand and gravel-low plasticity -stiff-low cohesion-moist--orange and brown mottles	No petroleum or solvent odors	
12						
14	0	0.5		Fill- brown- wood----wet/saturated--	Wet at 13 ft., no petroleum or solvent odors	JD-GP-113(14-15)
14				CL (Lean Clay)- dark gray - silty clay with trace sand and gravel-low plasticity -stiff-low cohesion-moist--	No petroleum or solvent odors	
16						
18						
20						

END OF BORING (FT): 15



# V3 Boring Log Report

**Boring Name** JD-GP-114

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 15	<b>Station/Boring Location Description:</b>
<b>X Coordinate:</b> 1159544.00	<b>Y Coordinate:</b> 1813493.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1130 6/14/2012	<b>Finish:</b> 1230 6/14/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> Johnson Probing  6610 DT Geoprobe  Erik Johnson  <b>Blind Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1  2	<b>Depth (ft):</b> 15	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0	2	90	Fill- dark gray ish brown- silty clay with bricks-low plasticity-very stiff-low cohesion-moist--	No petroleum or solvent odors	JD-GP-114(1-2)
2	0			Fill- dark gray ish black- sand and gravel with some silt and clay, bricks, and glass--dense--moist--	No petroleum or solvent odors	
4	0		80	Fill- dark gray - silty clay with sand and gravel, wood and asphalt-low plasticity-very stiff-low cohesion-moist--brown mottles	No petroleum or solvent odors	
6	0	3.5		Fill- dark gray - sand and gravel with some silt, glass, plastic, metal, and wood--dense--moist--	No petroleum or solvent odors	
8	0		50	Fill- red- bricks--dense--moist--	No petroleum or solvent odors	
10	0	1.5		Fill- dark gray - silty clay with sand and gravel, asphalt, bricks, plastic, roof shingles, and wood-low plasticity-very stiff-low cohesion-moist--	No petroleum or solvent odors	
12	0	2				
14						
16						
18						
20						

**END OF BORING (FT): 15**



# V3 Boring Log Report

**Boring Name** JD-GP-115

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 10	<b>Station/Boring Location Description:</b>
<b>X Coordinate:</b> 1159543.00	<b>Y Coordinate:</b> 1813513.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1230 6/14/2012	<b>Finish:</b> 1300 6/14/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> Johnson Probing  6610 DT Geoprobe  Erik Johnson  <b>Blind Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1 2	<b>Depth (ft):</b> 10	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0	4.5	90	Fill- dark gray ish black- sand and gravel with asphalt, tires, and wood--dense--moist--	No petroleum or solvent odors	
2				Fill- gray to dark gray - silty clay -low plasticity -very stiff -low cohesion-moist--	No petroleum or solvent odors	
4	0	2	60	Fill- dark gray ish brown- sand and gravel with brick--dense--moist--	No petroleum or solvent odors	
				Fill- black- asphalt--dense--moist--	No petroleum or solvent odors	
6	0	1.5	60	Fill- dark gray - bricks, roof shingles, and wood with little clay --dense--moist--	No petroleum or solvent odors	
8	0	1		Fill- dark gray - silty clay with glass, plastic, metal, and wood-low plasticity -stiff -low cohesion-moist--brown mottles	No petroleum or solvent odors	
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 10**



# V3 Boring Log Report

Boring Name JD-GP-116

soil sampling

Project Name: South COD - Area 2 Sites 5 and 6	Project #: *09073A2008	Geo/Engineer Name: Kristine Wright	Total Depth (ft): 10	Station/Boring Location Description:
X Coordinate: 1159557.00	Y Coordinate: 1813503.00	Ground Elevation (ft -approx): 595 <i>State Plane (Illinois East), USFeet</i>		
Start: 1300 6/14/2012	Finish: 1330 6/14/2012	Depth to Water During Drilling (ft):	Depth to Water Post Drilling (ft):	Drilling Company, Equipment and Crew: Johnson Probing  6610 DT Geoprobe  Erik Johnson  Blind Drilling Interval(s):
Drilling Methods: Direct Push 1	Depth (ft): 10	Borehole Dia (in): 2.25	Boring Backfill Method: Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0			Fill- dark gray - sand and gravel with some silt, bricks--dense--moist--	No petroleum or solvent odors	
2			90	Fill- black- asphalt--dense--moist--	No petroleum or solvent odors	
4	0	4.5		Fill- dark gray ish black- sand and gravel with plastic back car lights--dense--moist--	No petroleum or solvent odors	
				Fill- dark gray - silty clay with sand and gravel-low plasticity -hard-low cohesion-moist--brown mottles	No petroleum or solvent odors	
6	0	4.5		Fill- dark gray - sand and gravel with asphalt, glass, and plastic--dense--moist--	No petroleum or solvent odors	
			80	Fill- gray to dark gray - silty clay with sand and gravel-low plasticity -hard-low cohesion-moist--brown mottles	No petroleum or solvent odors	
8				Fill- black- asphalt--dense--moist--	No petroleum or solvent odors	
	0			Fill- red- bricks--dense--moist--	No petroleum or solvent odors	
10						
12						
14						
16						
18						
20						

END OF BORING (FT): 10



# V3 Boring Log Report

**Boring Name** JD-GP-117

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 15	<b>Station/Boring Location Description:</b>
<b>X Coordinate:</b> 1159441.00	<b>Y Coordinate:</b> 1813364.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1330 6/14/2012	<b>Finish:</b> 1430 6/14/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> Johnson Probing  6610 DT Geoprobe  Erik Johnson  <b>Blind Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1 2	<b>Depth (ft):</b> 15	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0	4				
2			70	Fill- dark gray ish brown- sand and gravel with some silt and clay , glass and wood--dense--moist--	No petroleum or solvent odors	
4	0	4				JD-GP-117(3-5)
6	0		50	Fill- reddish orange brown- sand and gravel with glass--dense--moist--	No petroleum or solvent odors	
8	0	3.5				
10	0	2.5				
12			80	CL (Lean Clay)- gray to dark gray - silty clay with trace sand and gravel-low plasticity -very stiff-low cohesion-moist--orange and brown mottles, high plasticity 11-13 ft.	No petroleum or solvent odors	JD-GP-117(11-13)
14	0	4.5				
16						
18						
20						

**END OF BORING (FT): 15**



# V3 Boring Log Report

Boring Name JD-GP-118

soil sampling

Project Name: South COD - Area 2 Sites 5 and 6	Project #: *09073A2008	Geo/Engineer Name: Kristine Wright	Total Depth (ft): 15	Station/Boring Location Description:
X Coordinate: 1159552.00	Y Coordinate: 1813395.00	Ground Elevation (ft -approx): 595 <i>State Plane (Illinois East), USFeet</i>		
Start: 1530 6/14/2012	Finish: 1630 6/14/2012	Depth to Water During Drilling (ft): 10	Depth to Water Post Drilling (ft):	Drilling Company, Equipment and Crew: Johnson Probing  6610 DT Geoprobe  Erik Johnson  Blind Drilling Interval(s):
Drilling Methods: Direct Push 1	Depth (ft): 15	Borehole Dia (in): 2.25	Boring Backfill Method: Soil cuttings	
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0	3	70	Fill- gray to dark gray - sand and gravel with asphalt--dense--moist--	No petroleum or solvent odors	
2	0	3	70	Fill- dark gray - silty clay with sand and gravel, bricks, tires, wood, and plastic car backlighs-low plasticity -v ery stiff-low cohesion-moist--	No petroleum or solvent odors	
4	0	1.5	50	Fill- dark gray - sand and gravel with some silt and clay , wires and tires --dense--moist--	No petroleum or solvent odors	
6	0	0.5	70	Fill- dark gray ish brown- bricks, wood, and plastic--dense--moist--	No petroleum or solvent odors	
8	0	0.5	70	CL (Lean Clay)- gray - silty clay with trace to little sand and gravel, plant roots-low plasticity -stiff -low cohesion-wet/saturated--	Wet at 10 ft., no petroleum or solvent odors	
10	0	0.5	70	OL (Organic Clay/Silt - nonplastic)- black- clayey silt--soft--moist--	No petroleum or solvent odors	
12						
14						
16						
18						
20						

END OF BORING (FT): 15





# V3 Boring Log Report

**Boring Name** JD-GP-120

*soil sampling*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 5	<b>Station/Boring Location Description:</b>
<b>X Coordinate:</b> 1159579.00	<b>Y Coordinate:</b> 1813622.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 815 6/15/2012	<b>Finish:</b> 845 6/15/2012	<b>Depth to Water During Drilling (ft):</b> 4	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> Johnson Probing
<b>Drilling Methods:</b> 1 Hand Auger 2	<b>Depth (ft):</b> 5	<b>Borehole Dia (in):</b> 4	<b>Boring Backfill Method:</b> Soil cuttings	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Lithologic Description	Observations	Samples
0	0	1	100	CL (Lean Clay)- dark brownish black- silty clay with trace sand and gravel, plant roots-low plasticity-stiff-low cohesion-moist--	No petroleum or solvent odors	JD-GP-120(1-3)
2	0	1	100	CL (Lean Clay)- dark grayish black- silty clay with trace sand and gravel, plant roots-low plasticity-stiff-low cohesion-moist--	No petroleum or solvent odors	
4	0	1	100	CL (Lean Clay)- dark grayish black- silty clay-high plasticity -stiff-high cohesion-moist--orange and brown mottles	No petroleum or solvent odors	
6						
8						
10						
12						
14						
16						
18						
20						

**END OF BORING (FT): 5**

# V3 TEST PIT LOGS

## South COD – Area 2 Sites 5 and 6

### Blue Island, Illinois

#### **Test Pit 1 (JD-EX-01) - 06/18/12 9:30am**

- General E-W direction: 8 ft. wide, 42 ft. long, 12 ft. deep
- 0-5.5 ft.: fill: dark grayish brown silty clay, sand, and gravel
- 5.5-12 ft.: fill: metal, wood, bricks, tires, concrete, plastic, car engine, storage gas tank; large piece of concrete at approximately 10 ft.; groundwater observed at 11.5 ft.
- 12 ft.: native gray silty clay
- PID: 4 ft.= 4 ppm, 10 ft.= 0 ppm

#### **Test Pit 2 (JD-EX-02) - 06/18/12 9:00am**

- General N-S direction: 8 ft. wide, 22 ft. long, 7.5 ft. deep
- 0-4.5 ft.: fill: dark grayish brown silty clay, sand, and gravel
- 4.5-7.5 ft.: fill: concrete, bricks, wood, tires, asphalt
- No groundwater observed
- PID: 5-6 ft.= 4 ppm

#### **Test Pit 3 (JD-EX-03) - 06/18/12 8:30am**

- General E-W direction: 7 ft. wide, 16 ft. long, 5 ft. deep
- 0-4 ft.: fill: dark grayish brown silty clay, sand, and gravel
- 4-5 ft.: fill: trash bags, wood, asphalt, plastic
- No groundwater observed
- PID: 4-5 ft. = 4 ppm

#### **Test Pit 4 (JD-EX-04) - 06/18/12 10:45am**

- General N-S direction: 7 ft. wide, 16 ft. long, 12 ft. deep
- 0-5 ft.: fill: dark grayish brown silty clay, sand, and gravel; observed blue poorly graded medium (cemented) sand with sulfur odor at approximately 3.5-4.5 ft.; blue sand was observed in the southern portion of the test pit only
- 5-11 ft. fill: wood, bricks, plastic, garbage bags, wires, concrete; less trash compared to other test pits
- 11-12 ft.: native gray silty clay, observed groundwater at 11 ft.
- PID: 4-5 ft. = 0 ppm

**Test Pit 5 (JD-EX-05) - 06/18/12 10:30am**

- General N-S direction: 9.5 ft. wide, 25 ft. long, 11.5 ft. deep
- 0-5 ft.: fill: dark grayish brown silty clay, sand, and gravel; petroleum odor approximately 0-1 ft.
- 5-11.5 ft: fill: metal, records, gutters, foam, bricks, tarp, trash bags, wires, and wood; observed groundwater at 10.5 ft.; no further digging
- PID: 0-1 ft.= 32 ppm, 4-5 ft.= 0 ppm, 6-7 ft.= 0 ppm

**Test Pit 6 (JD-EX-06) - 06/20/12 8:43am**

- General N-S direction: 9 ft. wide, 27 ft. long, 8 ft. deep
- 0-5 ft.: fill: dark grayish brown silty clay, sand, and gravel; observed blue poorly graded medium (cemented) sand with sulfur odor at approximately 4.5-6.5 ft. on southern and western walls of test pit.
- Groundwater encountered at 8 ft.

**Test Pit 7 (JD-EX-07) - 06/20/12 10:10am**

- General E-W direction: 16 ft. wide, 6 ft. long, 8.5 ft. deep
- 0-8.5 ft.: fill: dark grayish brown silty clay, sand, and gravel; observed blue poorly graded medium (cemented) sand with sulfur odor at approximately 3.5-6.5 ft. along the north and west walls.
- Groundwater encountered at 8 ft.

**Test Pit 8 (JD-EX-08) - 06/20/12 9:40am**

- General E-W direction: 15 ft. wide, 6ft. long, 7 ft. deep
- 0-7 ft.: fill: dark gray to dark brown sand and gravel with some clay and silt, bricks, concrete, asphalt, and pipe
- Less debris than other test pits
- No blue sand or groundwater was observed



# V3 Boring Log Report

**Boring Name** JD-GP-05/MW-05

*soil sampling/well*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 20	<b>Station/Boring Location Description:</b> Close to Midlothian Creek
<b>X Coordinate:</b> 1158996.00	<b>Y Coordinate:</b> 1813590.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1430 4/2/2012	<b>Finish:</b> 1600 4/2/2012	<b>Depth to Water During Drilling (ft):</b> 11	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Band Drilling Interval(s):</b>
<b>Drilling Methods:</b> 1 Direct Push 2	<b>Depth (ft):</b> 20	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Installed well	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Well	Lithologic Description	Observations	Samples
0	0						
0.2	0		60		Fill- dark gray ish black to brown- sand and gravel with little clay and silt, asphalt, and bricks--dense--moist--	No petroleum or solvent odors	JD-GP-05(1-3)
0.4	0	3.5					
0.6	0	3.5					
0.8	0	1					
1.0	0	1	60		Fill- dark gray - clayey silt with rubber and wood----moist--	No petroleum or solvent odors	
1.2	0	1					
1.4	0	1					
1.6	13.3	1			CL (Lean Clay)- gray to dark gray - silty clay -low plasticity -stiff-low cohesion-moist--	No petroleum or solvent odors	
1.8	66	0.5					
2.0	133	0.5	50		ML (Silt)- gray to dark gray - clayey silt with sand--medium cons.--moist--	Strong petroleum odors	JD-GP-05A(8-10)
2.2	50	1					
2.4	60	1			SP (Poorly Graded Sand)- dark gray - coarse sand with little clay --dense--wet/saturated--	Wet at 11 ft., strong petroleum odors	
2.6	17	0.5					
2.8	11.5	0.5	50		ML (Silt)- dark gray - clayey silt--soft--moist--	Slight petroleum odors	
3.0	0.9	0.5					
3.2	0.3	0.5					
3.4	0.3	1.5			CL (Lean Clay)- gray - silty clay with plant roots-high plasticity -medium cons.-high cohesion-moist--clay becomes harder with depth	No petroleum or solvent odors	
3.6	0.4	1.5					
3.8	0.2	2	50				
4.0	0.2	2		ML (Silt)- gray - silt with little clay and sea shells--stiff--moist--	No petroleum or solvent odors		

**END OF BORING (FT): 20**



# V3 Boring Log Report

**Boring Name** JD-GP-16/MW-04

*soil sampling/well*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 20	<b>Station/Boring Location Description:</b> Close to Midlothian Creek
<b>X Coordinate:</b> 1159412.00	<b>Y Coordinate:</b> 1813556.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1345 4/3/2012	<b>Finish:</b> 1430 4/3/2012	<b>Depth to Water During Drilling (ft):</b> 16	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Band Drilling Interval(s):</b>
<b>Drilling Methods:</b> 1 Direct Push 2	<b>Depth (ft):</b> 20	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Installed well	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Well	Lithologic Description	Observations	Samples
0	0.7				Fill- dark brownish gray - sand and gravel with asphalt, glass, rubber tires, and wood--dense--moist--	Slight automotive odor at 1 ft.	JD-GP-16(4-6)
1.1			80		Fill- dark gray - silty clay -low plasticity -stiff-low cohesion-moist--	Slight automotive odor	
2	0.3	1.5			Fill- dark gray - silt with some sand and gravel--dense--moist--	Slight automotive odor to 3 ft.	
	0.1	1.5			Fill- dark grayish brown- fine sand with little gravel--dense--moist--	No petroleum or solvent odors	
4	0.1	2			Fill- gray to dark gray - silty clay with sand and gravel, bricks, plastic, wood-low plasticity -very stiff-low cohesion-moist--silt content increases with depth	No petroleum or solvent odors	
	0.1	2	60				
6	0	2			Fill- brownish gray to dark gray - silty clay with sand and gravel, bricks, plastic, wood-low plasticity -very stiff-low cohesion-moist--	No petroleum or solvent odors	
	0	2					
8	0				Fill- gray to dark gray - sand and gravel with some clay and asphalt--dense--moist--	No petroleum or solvent odors	
	0		50				
10	0				Fill- gray to dark gray - clayey gravel with little sand--dense--moist--	No petroleum or solvent odors	
	0	1					
12	0	1			Fill- dark gray - silty clay with trace sand and plant roots-moderate plasticity -stiff-moderate cohesion-moist--	No petroleum or solvent odors	
	0	1	40				
14	0	1					
16	0	0.5			Fill- dark gray - silty clay with gravel, wood, and fiber glass installation-high plasticity -soft-high cohesion-wet/saturated--	Wet at 16 ft., no petroleum or solvent odors	
	0	0.5			CL (Lean Clay)- black- silty clay with little sand and plant roots-low plasticity -medium cons.-low cohesion-moist--	No petroleum or solvent odors	
18	0	0.5					
	0	0.5	40				
20	0	0.5			CL (Lean Clay)- dark brownish gray - silty clay with little sand, plant roots, and sea shells-low plasticity -soft-low cohesion-moist--	No petroleum or solvent odors	

**END OF BORING (FT): 20**



# V3 Boring Log Report

**Boring Name** JD-GP-35/MW-03

*soil sampling/well*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 20	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1158988.00	<b>Y Coordinate:</b> 1813394.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 830 4/5/2012	<b>Finish:</b> 1030 4/5/2012	<b>Depth to Water During Drilling (ft):</b> 4	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Band Drilling Interval(s):</b>
<b>Drilling Methods:</b> 1 Direct Push 2	<b>Depth (ft):</b> 20	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Installed well	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Well	Lithologic Description	Observations	Samples
0	0	1.5	80		Fill- brownish gray to dark brown- silty clay with trace sand and gravel-low plasticity-stiff-low cohesion-moist--	No petroleum or solvent odors	JD-GP-35(6-8)
0.3	1.5	2			Fill- dark gray - silty clay with trace sand and plant roots-low plasticity-stiff-low cohesion-moist--	No petroleum or solvent odors	
2	0.2	1	80		ML (Silt)- brown- clayey silt with little sand----wet/saturated--gray mottles	Wet at 4 ft., no petroleum or solvent odors	
4	0	1			SM (Silty Sand)- brown- silty sand----wet/saturated--	No petroleum or solvent odors	
6	0	2	80		ML (Silt)- gray - clayey silt with little sand----moist--orange and brown mottles, clay becomes harder with depth	No petroleum or solvent odors	
6	0	2			50		
8	0	1	50				
10	0	2			80		
12	0	4	80				
14	0	4			80		
16	0	4	80				
18	0	4.5			80		
20	0	4.5					

**END OF BORING (FT): 20**



# V3 Boring Log Report

**Boring Name** JD-GP-40/MW-01  
(Abandoned)  
*soil sampling/well*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 20	<b>Station/Boring Location Description:</b> Abandoned Garage
<b>X Coordinate:</b> 1159413.00	<b>Y Coordinate:</b> 1813418.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1145 4/10/2012	<b>Finish:</b> 1330 4/10/2012	<b>Depth to Water During Drilling (ft):</b> 8	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Band Drilling Interval(s):</b>
<b>Drilling Methods:</b> 1 Direct Push 2	<b>Depth (ft):</b> 20	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Installed well	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Well	Lithologic Description	Observations	Samples	
0	0				Fill- dark gray - sand and gravel with some clay , glass, and plastic--dense--moist--	No petroleum or solvent odors	JD-GP-40(1-3)	
0.1	3		70		Fill- dark grayish brown- silty clay with sand and gravel and wood-low plasticity--very stiff-low cohesion-moist--	No petroleum or solvent odors		
2	0	2			80	Fill- dark grayish brown- silty clay with sand and gravel, asphalt, bricks, plant roots, rubber, and wood-low plasticity--very stiff-low cohesion-moist--		At 7-7.5 ft. blue gravel with sulfur smells, faint gasoline smells in asphalt
4	1.1	3.5						
4.2	3.5				70	Fill- dark gray - silty clay with sand and gravel--low plasticity--very stiff-low cohesion-moist--		No petroleum or solvent odors
6	0	3						
6	0	3			40	Fill- dark gray - silty clay with coarse and gravel--low plasticity--soft-low cohesion-wet/saturated--		Wet at 8.5 ft., no petroleum or solvent odors
8	0	2						
8	0	2			50	Fill- dark gray - silty clay with sand and gravel--low plasticity--very stiff-low cohesion-moist--		No petroleum or solvent odors
10	0	2						
10	0	2			40	Fill- brownish red- bricks with sand and gravel----wet/saturated--		Wet at 11 ft., no petroleum or solvent odors
12	0	1						
12	0	1			40	Fill- reddish black to brown- coarse sand and gravel with little clay --dense--wet/saturated--		Wet at 12 ft., no petroleum or solvent odors
14	0	1						
14	0	1			50	CL (Lean Clay)- dark gray - silty clay-moderate plasticity--stiff-moderate cohesion-moist--		No petroleum or solvent odors
16	0	0.5						
16	0	0.5			50	ML (Silt)- black- clayey silt--stiff--moist--		No petroleum or solvent odors
18	0	1						
18	0	0.5			50	CL (Lean Clay)- dark gray - silty clay with coarse sand-low plasticity--soft-low cohesion-wet/saturated--		Wet at 16.5 ft., no petroleum or solvent odors
20	0	1						
20	0	1		ML (Silt)- gray - sandy silt--medium cons.--moist--	No petroleum or solvent odors			

**END OF BORING (FT): 20**



# V3 Boring Log Report

**Boring Name MW-02**

*permanent well*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 20	<b>Station/Boring Location Description:</b> Auto Junk Yard
<b>X Coordinate:</b> 1159285.00	<b>Y Coordinate:</b> 1813501.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 945 4/11/2012	<b>Finish:</b> 1045 4/11/2012	<b>Depth to Water During Drilling (ft):</b>	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> IEPA OSE  6600 Geoprobe  Ken Corkill, Tony Wasilewski, Dave Reed <b>Blind Drilling Interval(s):</b>
<b>Drilling Methods:</b> 1 Direct Push 2	<b>Depth (ft):</b> 20	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Installed well	

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Well	Lithologic Description	Observations	Samples
0					Fill- dark gray - sand and gravel with some clay, asphalt, bricks, and wood--dense--moist--	No petroleum or solvent odors	
2		4			Fill- gray to dark gray - silty clay with sand and gravel-low plasticity -very stiff-low cohesion-moist--	No petroleum or solvent odors	
4		4			Fill- brown to dark gray - sand and gravel with little silt, asphalt, bricks, and glass--very dense--moist--	No petroleum or solvent odors	
6		2			Fill- dark gray - gravel with little sand, asphalt, styrofoam, and wood--dense--wet/saturated--	Wet at 10 ft., no petroleum or solvent odors	
8		2			CL (Lean Clay)- dark gray - silty clay with trace sand, gravel and plant roots-low plasticity -stiff-low cohesion-moist--	No petroleum or solvent odors	
10		3	80		CL (Lean Clay)- black- silty clay with little sand and gravel-low plasticity-medium cons.-low cohesion-moist--	No petroleum or solvent odors	
12		3			CL (Lean Clay)- dark grayish brown- silty clay with little sand, plant roots, and sea shells-low plasticity-medium cons.-low cohesion-moist--	No petroleum or solvent odors	
14		4					
16		4					
18		2					
20		1	40				
		1					
		1					
		1					
		0.5					
		0.5					
		1	25				
		1					

**END OF BORING (FT): 20**





# V3 Boring Log Report

**Boring Name** JD-GP-119/MW-01

*soil sampling/well*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 20	<b>Station/Boring Location Description:</b>
<b>X Coordinate:</b> 1159413.00	<b>Y Coordinate:</b> 1813429.00	<b>Ground Elevation (ft -approx):</b> 91.85 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1430 6/14/2012	<b>Finish:</b> 1530 6/14/2012	<b>Depth to Water During Drilling (ft):</b> 10.5	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> Johnson Probing  6610 DT Geoprobe  Erik Johnson  <b>Blind Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push	<b>Depth (ft):</b> 20	<b>Borehole Dia (in):</b> 27	<b>Boring Backfill Method:</b> Installed well	
1				
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Well	Lithologic Description	Observations	Samples	
0	0	4.5			Fill- dark gray - silty clay with sand and gravel, asphalt-low plasticity -hard-low cohesion-moist--	No petroleum or solvent odors		
2			70		Fill- dark grayish black- silty clay with sand and gravel, plant roots, metal, and wood-low plasticity -hard-low cohesion-moist--	No petroleum or solvent odors		
4	0	4.5			Fill- blue- poorly graded medium (cemented) sand--hard-wet/saturated--	Wet at 5 ft., sulfur odors	JD-GP-119(5-7)	
6	0		70		Fill- dark gray - sand and gravel with asphalt, brick, and wood--dense--moist--	No petroleum or solvent odors		
8	0	2			Fill- dark gray - silty clay with sand and gravel-low plasticity -stiff-low cohesion-moist--	No petroleum or solvent odors		
10					Fill- dark gray - sand and gravel with clay --dense--wet/saturated--	No petroleum or solvent odors		
12	0		60		Fill- dark gray - silty clay-low plasticity -stiff-low cohesion-moist--	No petroleum or solvent odors		
14	0	2			Fill- reddish orange- sand and gravel with bricks--dense--moist--	No petroleum or solvent odors		
16	0	0.5			CL (Lean Clay)- dark gray - silty clay with trace sand and gravel-high plasticity -soft-high cohesion-moist--	No petroleum or solvent odors		
18			60		OL (Organic Clay/Silt - nonplastic)- black- clayey silt with trace sand--soft--moist--	No petroleum or solvent odors		
18					CL (Lean Clay)- dark gray - sandy clay -moderate plasticity -soft-moderate cohesion-moist--	No petroleum or solvent odors		
18	0	0.5			CL (Lean Clay)- dark gray - silty clay -moderate plasticity -soft-moderate cohesion-moist--orange mottles	No petroleum or solvent odors		
20								

**END OF BORING (FT): 20**



# V3 Boring Log Report

**Boring Name** JD-GP-121/MW-07

*soil sampling/temp well*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 15	<b>Station/Boring Location Description:</b>
<b>X Coordinate:</b> 1159654.00	<b>Y Coordinate:</b> 1813522.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 1200 6/19/2012	<b>Finish:</b> 1300 6/19/2012	<b>Depth to Water During Drilling (ft):</b> 11	<b>Depth to Water Post Drilling (ft) :</b>	<b>Drilling Company, Equipment and Crew:</b> Johnson Probing  6610 DT Geoprobe  Erik Johnson  <b>Blind Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1	<b>Depth (ft):</b> 15	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b> Soil cuttings	
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Well	Lithologic Description	Observations	Samples
0	0	2.5			Fill- dark grayish black- sand and gravel with asphalt and glass--dense--moist--	No petroleum or solvent odors	
2	0	4	70		Fill- dark grayish brown- silty clay with sand and gravel, bricks, tires, sponges, and wood-low plasticity -very stiff-low cohesion-moist--	No petroleum or solvent odors	
4	0	2			Fill- dark grayish brown- sand and gravel with little clay, wood and tires--dense--moist--	No petroleum or solvent odors	
6	0	1	50		Fill- brown- silty clay with sand and gravel, wood-low plasticity -stiff-low cohesion-wet/saturated--	Wet at 11 ft., no petroleum or solvent odors	
8	0	1			CL (Lean Clay)- dark gray - silty clay with sand and gravel, plant roots-low plasticity -stiff-low cohesion-moist--	No petroleum or solvent odors	
10							
12							
14							
16							
18							
20							

**END OF BORING (FT): 15**



# V3 Boring Log Report

**Boring Name** JD-GP-122/MW-06

*soil sampling/well*

<b>Project Name:</b> South COD - Area 2 Sites 5 and 6	<b>Project #:</b> *09073A2008	<b>Geo/Engineer Name:</b> Kristine Wright	<b>Total Depth (ft):</b> 20	<b>Station/Boring Location Description:</b>
<b>X Coordinate:</b> 1159525.00	<b>Y Coordinate:</b> 1813509.00	<b>Ground Elevation (ft -approx):</b> 595 <i>State Plane (Illinois East), USFeet</i>		
<b>Start:</b> 810 6/19/2012	<b>Finish:</b> 910 6/19/2012	<b>Depth to Water During Drilling (ft):</b> 11	<b>Depth to Water Post Drilling (ft):</b>	<b>Drilling Company, Equipment and Crew:</b> Johnson Probing  6610 DT Geoprobe  Erik Johnson  <b>Blind Drilling Interval(s):</b>
<b>Drilling Methods:</b> Direct Push 1	<b>Depth (ft):</b> 20	<b>Borehole Dia (in):</b> 2.25	<b>Boring Backfill Method:</b>  Installed well	
2				

Depth (ft)	PID (ppm)	PP (tsf)	% Recovery	Well	Lithologic Description	Observations	Samples
0	49	4.5					JD-GP-122(0.5-1.5)
2			70				
4	0	4			Fill- dark grayish brown- sand and gravel with some silt and clay , asphalt, bricks, glass, and tires--dense--moist--orange mottles	Slight petroleum odors at 0-2 ft.	
6	0						
8	0	2.5	50				
10	0	2.5			Fill- dark gray - clayey sand--dense--wet/saturated--	Wet at 11 ft., no petroleum or solvent odors	
12			40				
14	0	3			Fill- gray to dark gray - silty clay with sand and gravel, wood-low plasticity-very stiff-low cohesion-moist--	No petroleum or solvent odors	
16	0	1			CL (Lean Clay)- dark gray - silty clay with trace to little sand and gravel, plant roots-high plasticity-stiff-high cohesion-moist--	No petroleum or solvent odors	
18			40				
20	0	1			OL (Organic Clay/Silt - nonplastic)- black- silty clay with trace sand -low plasticity-stiff-low cohesion-moist--	No petroleum or solvent odors	

**END OF BORING (FT): 20**