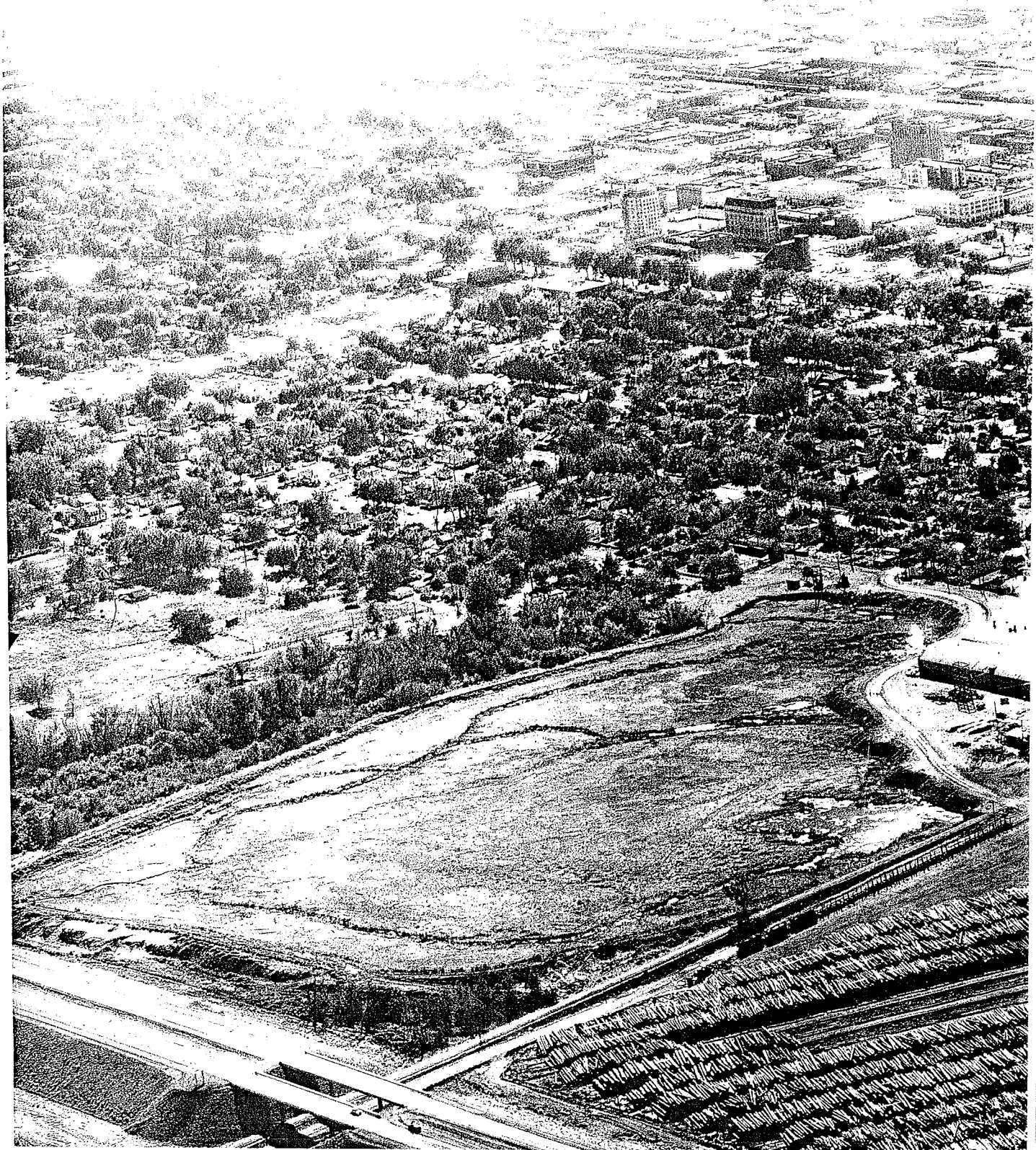
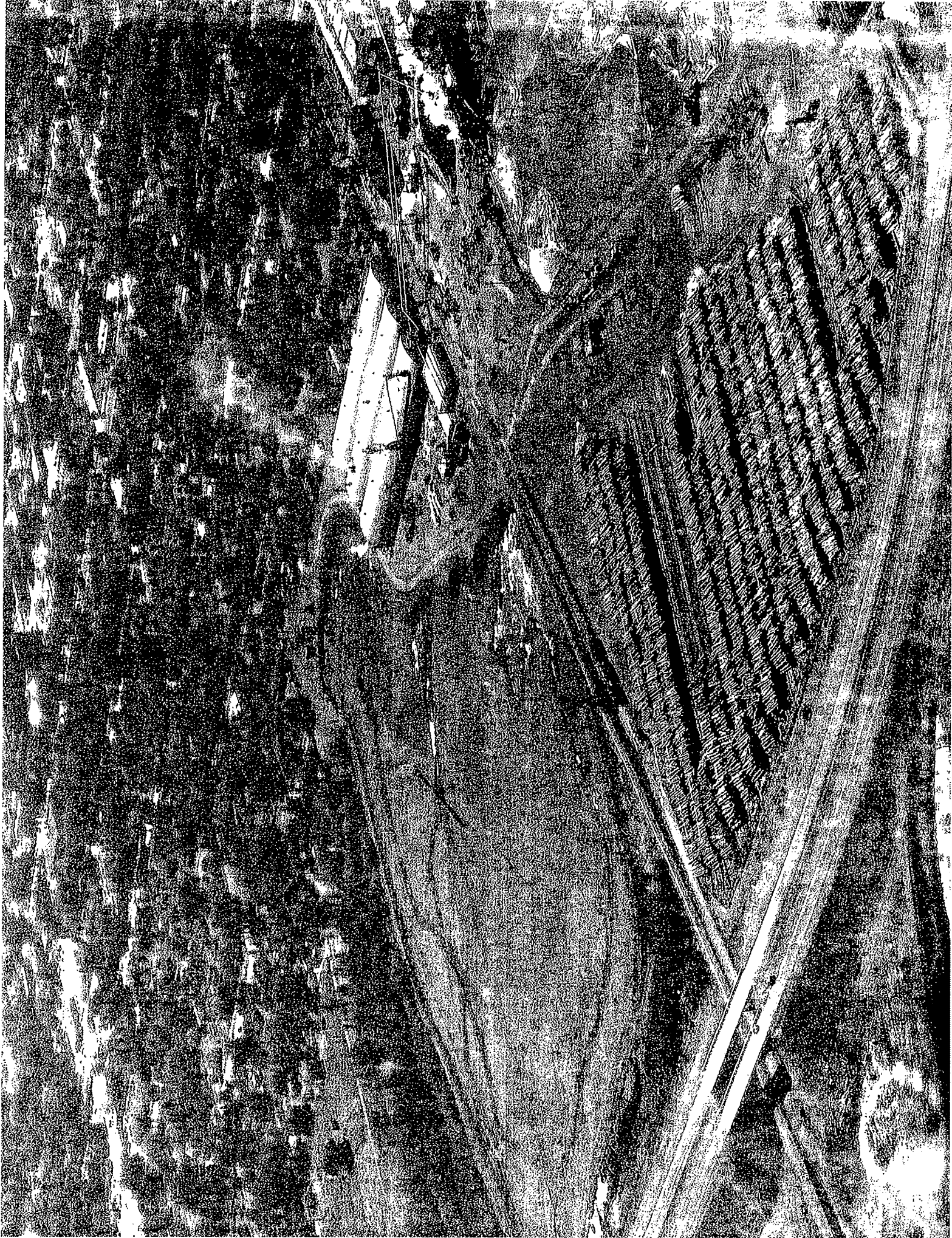


APPENDIX A

**HISTORICAL PHOTOGRAPHS OF DRAINED SOUTHERN LOG
POND**





APPENDIX B
TEST PIT LOGS AND SOIL BORING LOGS

SOIL CLASSIFICATION

Classification of soils in this report is based on visual field estimates and laboratory observations which include density/consistency, moisture condition, grain size, and plasticity estimates of ASTM D 2488 were used as an information guide. Dual symbols are used to indicate borderline soil classifications.

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS	
			GRAPH	LETTER		
COARSE GRAINED SOILS (MORE THAN 50% OF MATERIAL IS LARGER THAN #200 SIEVE SIZE)	GRAVEL AND GRAVELLY SOILS (MORE THAN 50% OF COARSE FRACTION RETAINED ON #4 SIEVE)	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES	
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES	
		SAND AND SANDY SOILS (MORE THAN 50% OF COARSE FRACTION PASSING ON #4 SIEVE)	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
			SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
	FINE GRAINED SOILS (MORE THAN 50% OF MATERIAL IS SMALLER THAN #200 SIEVE SIZE)	SILTS AND CLAYS (LIQUID LIMIT LESS THAN 50)			ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
					CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
					OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
		SILTS AND CLAYS (LIQUID LIMIT GREATER THAN 50)			MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY	
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS	
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS	

DENSITY/CONSISTENCY

Soil density/consistency in borings is related primarily to the Standard Penetration Resistance, and is estimated based on visual observations and is presented in the soil description.

SAND or GRAVEL Density	Standard penetration Resistance in Blows/ft.	SILT or CLAY Consistency	Standard penetration Resistance in Blows/ft.
Very loose	0 - 4	Very soft	0 - 2
Loose	4 - 10	Soft	2 - 4
Medium dense	10 - 30	Medium stiff	4 - 8
Dense	30 - 50	Stiff	8 - 15
Very dense	>50	Very stiff	15 - 30
		Hard	>30

SAMPLING LEGEND

AC = Auger Cuttings
 SS = Split Spoon
 ST = Shelby Tube
 CB = Core Barrel
 GP = Geo-Probe
 RC = Rock Core
 PT = Packer Permeability Test
 HA = Hand Auger

MINOR CONSTITUENTS

Trace	0 - 5%
Few	5 - 15%
Little	15 - 25%
Some	25 - 45%

MOISTURE

Dry	Little perceptible moisture
Damp	Some perceptible moisture
Moist	Probably near optimum moisture content
Wet	Much perceptible moisture probably above optimum

COMMENTS

MSL=Mean Sea Level
 bgs=Below Ground Surface
 HSA=Hollow Stem Auger
 TOC=Top of Casing

WATER LEVEL MEASUREMENT

- Depth to water encountered during first sampling event
- Depth to water encountered during second sampling event
- Depth to water encountered during third sampling event

Note: Water level measurements shown on the logs represent conditions at the time indicated and may not reflect static levels.



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DATE 07/06
 DWN. BDT
 APPR. *nds*
 REVIS.
 PROJECT NO.

001.0221.00004

FIGURE B-1
 CLOSED CITY OF YAKIMA
 MUNICIPAL LANDFILL
 YAKIMA, WASHINGTON

SOIL CLASSIFICATION SYSTEM



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TEST PIT NUMBER TP-8

PAGE 1 OF 1

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/26/09 COMPLETED 1/26/09 GROUND ELEVATION 1062.46 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0						WOOD WASTE, brown, organic, intermixed with gravel, moist.	0.6
5				GM		SILTY GRAVEL, yellow brown, fine to coarse gravel, rounded cobbles, some fines.	1057.5
7.0				ML		@ 7.0 Feet: Geotextile fabric. SANDY SILT, dark brown, some fine- to coarse-grained sand, trace gravel, moist.	1055.5
9.0						MUNICIPAL SOLID WASTE, plastic bags, wire, trash.	1053.5
14.0						Test pit completed at 14.0 feet.	1048.5

REMARKS

Pit 20' x 5'

∇ Water level at time of excavation.

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TEST PIT NUMBER TP-9

PAGE 1 OF 1

CLIENT <u>City of Yakima</u>	PROJECT NAME <u>City of Yakima Landfill</u>
PROJECT NUMBER <u>001.0221.00004</u>	PROJECT LOCATION <u>Yakima, Washington</u>
DATE STARTED <u>1/26/09</u> COMPLETED <u>1/26/09</u>	GROUND ELEVATION <u>1064.84 ft</u> HOLE SIZE _____
EXCAVATION DRILLING CONTRACTOR <u>Wyser Construction</u>	GROUND WATER LEVELS:
EXCAVATION DRILLING METHOD <u>Excavator</u>	AT TIME OF EXCAVATION <u>Dry</u>
LOGGED BY <u>B. Robinson</u> CHECKED BY _____	AT END OF <u>---</u>
NOTES _____	AFTER EXCAVATION <u>---</u>

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
0							
5						WOOD WASTE, dark brown, organics, intermixed medium gravel, wood mulch.	
							6.0 1058.8
						SANDY GRAVEL, gray, fine to coarse gravel, cobbles (up to 6"), some fine- to coarse-grained sand, dense, moist.	
				GW			
							9.0 1055.8
						MUNICIPAL SOLID WASTE, gray, intermixed trash, plastic, glass.	
10							
							11.0 1053.8

Test pit completed at 11.0 feet.

REMARKS

Pit 15' x 5'

Water level at time of excavation.



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TEST PIT NUMBER TP-10

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/26/09 COMPLETED 1/26/09 GROUND ELEVATION 1069.30 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0							
						WOOD WASTE, brown, organic, intermixed gravel and wood debris, bark, moist.	0.6
5							
						8.0 1061.3 SANDY GRAVEL, gray, fine to coarse gravel, some fine- to coarse-grained sand, cobbles, moist.	
				GW		8.5 1060.8 MUNICIPAL SOLID WASTE, gray, intermixed plastic, trash, gravel, moist, strong metal odor.	
10							0.6
							1058.8

Test pit completed at 10.5 feet.

REMARKS

Pit 15' x 5'


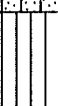
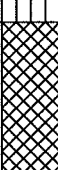
Water level at time of excavation.



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TEST PIT NUMBER TP-11

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/26/09 COMPLETED 1/26/09 GROUND ELEVATION 1057.05 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
				SW-SM		GRAVELLY SAND, dark brown, fine- to coarse-grained sand, some fine to coarse rounded gravel, little fines, dry to moist @ 3.5 feet: Becomes brown, intermixed trash, plastic, metal.
5				ML		5.5 1051.6 SILT, dark blue-gray, moist to wet, some waste.
						7.0 1050.1 MUNICIPAL SOLID WASTE, gray, some sand, plastic, metal, foam, construction debris.
						9.0 1048.1 Test pit completed at 9.0 feet.

REMARKS

Pit 10' x 5'

▽ Water level at time of excavation.



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TEST PIT NUMBER TP-12

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/26/09 COMPLETED 1/26/09 GROUND ELEVATION 1051.47 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
				GM		SILTY GRAVEL , light brown, fine to coarse gravel, some cobbles, rounded, some fines, little fine- to coarse-grained sand, dry to damp. Waste and construction debris below 1'	1049.5
				ML		SILT , dark gray, some fine to medium gravel, moist.	1048.5
						MUNICIPAL SOLID WASTE , plastic bags, metal, moist.	
5							
							1044.5

Test pit completed at 7.0 feet.

REMARKS

▽ Water level at time of excavation.



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TEST PIT NUMBER TP-13

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/26/09 COMPLETED 1/26/09 GROUND ELEVATION 1060.09 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
				GM		SILTY GRAVEL, dark brown, fine to coarse gravel, some fines, some organics. @ 1.5 feet: Becomes olive gray with little fine- to coarse-grained sand.	
						WOOD WASTE, red, fine fragments, damp.	1057.1
5						SAND, olive gray, fine- to medium-grained sand, trace silt, trace gravel.	1052.6
10				SP			1047.6
							12.5

Test pit completed at 12.5 feet.

REMARKS

Pit 20' x 5'

∇ Water level at time of excavation.

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TEST PIT NUMBER TP-14

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/26/09 COMPLETED 1/26/09 GROUND ELEVATION 1059.88 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
				GM		SILTY GRAVEL, dark brown, some fines, little sand and organics, moist.	1058.9
						WOOD WASTE, bark fragments.	
							1056.9
				SM		SILTY SAND, olive gray, fine- to medium-grained sand, some fines, little medium to coarse gravel, moist.	
5							1054.9
						WOOD WASTE.	1054.4
				SP		SAND, gray, fine- to medium-grained, trace gravel and silt, moist.	
							1052.4
						WOOD WASTE.	1051.9
				SP		SAND, gray, fine- to medium-grained, some laminar staining, moist.	
10							1049.9

Test pit completed at 10.0 feet.

REMARKS

Pit 15' x 5'

Water level at time of excavation.





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TEST PIT NUMBER TP-15

PAGE 1 OF 1

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/26/09 COMPLETED 1/26/09 GROUND ELEVATION 1045.95 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator ∇ AT TIME OF EXCAVATION 7.5 ft / Elev 1038.5 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER EXCAVATION _____

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
				GM		SILTY GRAVEL, brown, fine to coarse, some cobbles, some fines, little fine- to coarse-grained sand. 1045.0
				GW		SANDY GRAVEL, yellow brown, fine to coarse gravel, some fine- to coarse-grained sand, cobbles up to 12", well-rounded, flattened horizontal alignment, moist to wet. 1038.5
5						

Test pit completed at 7.5 feet.

REMARKS

∇ Water level at time of excavation.



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TEST PIT NUMBER TP-16

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/26/09 COMPLETED 1/26/09 GROUND ELEVATION 1048.37 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
				GM		SILTY GRAVEL, brown, fine to coarse gravel, some fines, little fine- to coarse-grained sand, dry to damp.	1046.4
				SM		SILTY SAND, light brown, some fines, trace gravel, moist.	
5				GW		SANDY GRAVEL, fine to coarse gravel, cobbles (12"), some fine- to coarse-grained sand, wet.	1041.4
						Test pit completed at 9.0 feet.	1039.4

REMARKS

Pit 15' x 5'
 Municipal solid waste from 4.0 to 7.0 feet in north end of test pit.

Water level at time of excavation.



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TEST PIT NUMBER TP-17

PAGE 1 OF 1

CLIENT <u>City of Yakima</u>	PROJECT NAME <u>City of Yakima Landfill</u>
PROJECT NUMBER <u>001.0221.00004</u>	PROJECT LOCATION <u>Yakima, Washington</u>
DATE STARTED <u>1/26/09</u> COMPLETED <u>1/26/09</u>	GROUND ELEVATION <u>1049.89 ft</u> HOLE SIZE _____
EXCAVATION DRILLING CONTRACTOR <u>Wyser Construction</u>	GROUND WATER LEVELS:
EXCAVATION DRILLING METHOD <u>Excavator</u>	AT TIME OF EXCAVATION <u>Dry</u>
LOGGED BY <u>B. Robinson</u> CHECKED BY _____	AT END OF <u>---</u>
NOTES _____	AFTER EXCAVATION <u>---</u>

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
				GM		SILTY GRAVEL, dark brown, fine to coarse gravel, some fines, little fine- to coarse-grained sand, dry.	1048.4
				GW		SANDY GRAVEL, brown, fine to coarse gravel, some fine- to coarse-grained sand.	1045.9
5				SM		SILTY SAND, light brown, fine- to medium-grained sand, some fines, moist.	1040.9
10				GW		SANDY GRAVEL, yellow brown, fine to coarse gravel, some fine- to coarse-grained sand.	1039.9
Test pit completed at 10.0 feet.							

REMARKS

Municipal solid waste from 4.0 to 7.0 feet in north end of test pit.

Water level at time of drilling.



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TEST PIT NUMBER TP-18

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/26/09 COMPLETED 1/26/09 GROUND ELEVATION 1053.42 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
						WOOD WASTE (Up to 8" pieces). @ 1.5 feet: Wood waste intermixed with gravel, some organics, and sand.	
						SILTY SAND, olive gray, fine- to medium-grained, some fines, moist.	1049.4
5				SM			
						Test pit completed at 7.0 feet.	1046.4

REMARKS

Pit 20' x 5'
 Municipal waste below 3.0 feet in north end of test pit.

Water level at time of excavation.



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TEST PIT NUMBER TP-19

PAGE 1 OF 1

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/27/09 COMPLETED 1/27/09 GROUND ELEVATION 1054.45 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
5						WOOD WASTE, some logs.
5.0				GP-GM		SILTY GRAVEL, brown, fine to coarse gravel, rounded, some fines, little fine- to coarse-grained sand, moist. 1049.5
8.0				SM		SILTY SAND: Olive grey, fine grained, moist 1046.5
10						1044.5

Test pit completed at 10.0 feet.

REMARKS

Pit 25' x 5'
 Municipal solid waste at 6.0 feet in north end of test pit.

∇ Water level at time of drilling.



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CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/27/09 COMPLETED 1/27/09 GROUND ELEVATION 1055.31 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER EXCAVATION _____

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
						WOOD WASTE.
					2.5	1052.8
				GP-GM		SILTY GRAVEL, yellow brown, fine to coarse gravel, some fines, little fine- to coarse-grained sand, dry to moist.
5					5.0	1050.3
				SM		SILTY SAND, light brown, fine sand, some fines, trace gravel.
					@ 8.0 feet: Becomes olive gray.	
					9.0	1046.3

Test pit completed at 9.0 feet.

REMARKS

Pit 45' x 10'
 Municipal solid waste below 5.0 feet in north end of test pit.

Water level at time of drilling.

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CLIENT City of Yakima

PROJECT NAME City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DATE STARTED 1/27/09 COMPLETED 1/27/09

GROUND ELEVATION 1058.27 ft HOLE SIZE _____

EXCAVATION DRILLING CONTRACTOR Wyser Construction

GROUND WATER LEVELS:

EXCAVATION DRILLING METHOD Excavator

AT TIME OF EXCAVATION Dry

LOGGED BY B. Robinson CHECKED BY _____

AT END OF ---

NOTES _____

AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
						WOOD WASTE, pieces up to 24".
						1056.3
						2.0
						SANDY GRAVEL, white and gray, fine to coarse gravel, some fine- to coarse-grained sand, large pieces of concrete (5" up to 2'), some asphalt, metal pipes, rotting odor.
5				GW		
						1050.3
						8.0

Test pit completed at 8.0 feet.

REMARKS

Municipal solid waste below 4.0 feet in north end of test pit.

Water level at time of excavation.

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TEST PIT NUMBER TP-22

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/27/09 COMPLETED 1/27/09 GROUND ELEVATION 1058.06 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
						WOOD WASTE, dark reddish brown, some intermixed gravel, moist.	
5							
				SM		SILTY SAND, olive gray, fine- to medium-grained sand, some fines, moist, strong odor.	1052.1
			TP-22 Waste			MUNICIPAL SOLID WASTE, plastic bags, metal, foam.	1050.6
						Test pit completed at 8.5 feet.	1049.6

REMARKS

Pit 20' x 5'

Water level at time of excavation.



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TEST PIT NUMBER TP-23

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/27/09 COMPLETED 1/27/09 GROUND ELEVATION 1054.00 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0						WOOD WASTE, some fine to coarse gravel, little fine- to coarse-grained sand.	
							1052.5
				GW		SANDY GRAVEL, brown, fine to coarse gravel, some cobbles, some fine- to coarse-grained sand, dry to damp.	
							1050.5
						MUNICIPAL SOLID WASTE, metal, plastics, concrete.	
5							1049.0
				SM		SILTY SAND, olive gray, fine- to medium-grained sand, some fines, moist.	
							1046.5
Test pit completed at 7.5 feet.							

REMARKS

Pit 20' x 5'
Municipal solid waste pinches out in the south end of the test pit.

Water level at time of excavation.



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TEST PIT NUMBER TP-24

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/27/09 COMPLETED 1/27/09 GROUND ELEVATION 1050.72 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
				GM		SILTY GRAVEL , brown, fine to coarse gravel, some cobbles, some fines, little fine- to coarse-grained sand. @ 1.0 feet: Becomes intermixed with municipal solid waste (plastic bags, wire).	1048.2
				SM		SILTY SAND , light olive brown grading to olive gray, fine- to medium-grained sand, some fines, moist.	1045.2
5				GW		SANDY GRAVEL , olive brown, fine to coarse gravel, some cobbles, well-rounded to flattened, some fine- to coarse-grained sand, moist.	1043.2

Test pit completed at 7.5 feet.

REMARKS

Pit 14' x 5'

Water level at time of excavation.

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TEST PIT NUMBER TP-25

PAGE 1 OF 1



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CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/27/09 COMPLETED 1/27/09 GROUND ELEVATION 1051.48 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
				GM		SILTY GRAVEL , brown, fine to coarse gravel, some fines, little fine- to coarse-grained sand, little wood waste, dry. @ 1.0 foot: Becomes intermixed with wood waste and municipal solid waste (plastic bags, wire, concrete).	1047.5
						MUNICIPAL SOLID WASTE , gray, tires, glass, plastic bags, plastic.	
5				SM		SILTY SAND , light olive brown to olive gray, fine-grained sand, moist.	1046.0
				GW		SANDY GRAVEL , olive gray, fine to coarse gravel, cobbles up to 18", well rounded to flattened, some fine- to coarse-grained sand, moist.	1045.0
						Test pit completed at 7.0 feet.	1044.5

REMARKS

Pit 25' x 7'
Municipal solid waste pinches out in the south end of the test pit.

∇ Water level at time of excavation.



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TEST PIT NUMBER TP-26

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/27/09 COMPLETED 1/27/09 GROUND ELEVATION 1051.18 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
				GM		SILTY GRAVEL, brown, fine to coarse gravel, some fines, little fine- to coarse-grained sand, dry to moist, intermixed wood, bark, logs (18" diameter), concrete.	
						MUNICIPAL SOLID WASTE, plastic bags, bottles, foam, metal, sand, and gravel.	1047.2
5				SM		SILTY SAND, light olive brown, fine- to medium-grained, some fines.	1046.2
							1044.7

Test pit completed at 6.5 feet.

REMARKS

Pit 30' x 7'
 Municipal solid waste ends in the south end of the test pit and becomes thicker in the north end.

Water level at time of excavation.



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TEST PIT NUMBER TP-27

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/27/09 COMPLETED 1/27/09 GROUND ELEVATION 1056.69 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
5				GM		SILTY GRAVEL, brown, fine to coarse gravel, some fines, intermixed fine- to coarse-grained sand, wood waste, moist.
						MUNICIPAL SOLID WASTE, metal cans, bottles, plastic, wood.
				GW		SANDY GRAVEL, olive gray, fine to coarse gravel, rounded to well rounded, some fine- to coarse-grained sand, moist.
						Test pit completed at 9.5 feet.

REMARKS

Pit 30' x 7'
Municipal solid waste pinches out in the south end of the test pit and becomes thicker in the north end.

∇ Water level at time of excavation.



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TEST PIT NUMBER TP-28

PAGE 1 OF 1

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/27/09 COMPLETED 1/27/09 GROUND ELEVATION 1057.58 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0							
				GM		SILTY GRAVEL, brown, fine to coarse gravel, some fines, little fine- to coarse-grained sand, dry to damp.	1056.6
						WOOD WASTE, logs (up to 18" in diameter) 3'-10' long, intermixed silty sand.	
5							
						MUNICIPAL SOLID WASTE, plastic, metal, bags, piping, wire, concrete, moist.	1050.1
10				GW		SANDY GRAVEL, olive gray, fine to coarse gravel, cobbles, some fine- to coarse-grained sand, moist to wet.	1048.1
							1045.1

Test pit completed at 12.5 feet.

REMARKS

Pit 50' x 5'
Municipal solid waste near the south end of the test pit.

Water level at time of excavation.

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TEST PIT NUMBER TP-29

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/27/09 COMPLETED 1/27/09 GROUND ELEVATION 1061.49 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PID (ppm)
0							
						WOOD WASTE, with fine to coarse gravel, some fines, little fine- to coarse-grained sand, dry to moist.	
					2.0		1059.5
				GM		SILTY GRAVEL, dark grayish brown, fine to coarse gravel, some fines, little fine- to coarse-grained sand, moist.	
					4.5		1057.0
5						MUNICIPAL SOLID WASTE dark gray, plastic bags, paper, wood, and wire.	1
					5.5		1056.0

Test pit completed at 5.5 feet.

REMARKS

Pit 10' x 5'

Water level at time of excavation.



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TEST PIT NUMBER TP-30

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/27/09 COMPLETED 1/27/09 GROUND ELEVATION 1062.24 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
						WOOD WASTE.	1061.7
				GM		SILTY GRAVEL, fine to coarse gravel, some fines, little fine- to coarse-grained sand, intermixed with wood waste. @ 3.0 feet: Becomes brown.	
						MUNICIPAL SOLID WASTE, wire, plastic bags, concrete, and wood.	1058.2
5							
							1055.2

Boring completed at 7.0 feet.

REMARKS

Pit 35' x 5'

Water level at time of excavation.



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TEST PIT NUMBER TP-31

CLIENT <u>City of Yakima</u>	PROJECT NAME <u>City of Yakima Landfill</u>
PROJECT NUMBER <u>001.0221.00004</u>	PROJECT LOCATION <u>Yakima, Washington</u>
DATE STARTED <u>1/27/09</u> COMPLETED <u>1/27/09</u>	GROUND ELEVATION <u>1063.25 ft</u> HOLE SIZE _____
EXCAVATION DRILLING CONTRACTOR <u>Wyser Construction</u>	GROUND WATER LEVELS:
EXCAVATION DRILLING METHOD <u>Excavator</u>	AT TIME OF EXCAVATION <u>Dry</u>
LOGGED BY <u>B. Robinson</u> CHECKED BY _____	AT END OF <u>---</u>
NOTES _____	AFTER EXCAVATION <u>---</u>

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
					1.0	SILTY GRAVEL, fine to coarse gravel, some fines, some wood waste. 1062.3
				GM	3.5	SILTY GRAVEL, olive gray, fine to coarse gravel, some fines, little fine- to coarse-grained sand. 1059.8
5					13.0	MUNICIPAL SOLID WASTE, plastic, metal, wire, glass, bottles, and paper. 1050.3
10					14.5	SILTY SAND, olive gray, fine- to medium-grained sand, some fines, loose, wet. 1048.8
				SM		Test pit completed at 14.5 feet.

REMARKS

Pit 30' x 5'

∇ Water level at time of excavation.

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TEST PIT NUMBER TP-32

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/28/09 COMPLETED 1/28/09 GROUND ELEVATION 1063.34 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
				SP-SM		GRAVELLY SAND, fine- to medium-grained sand, some fine to coarse gravel, little fines, little wood waste, dry to damp. 1062.3
				GW		SANDY GRAVEL, olive gray, fine to coarse gravel, well rounded, some cobbles, some fine- to coarse-grained sand. 1061.3
				SM		SILTY SAND, light olive brown, fine sand, some fines, moist.
5						5.0 to 6.5 feet: Grades to light olive gray. 1056.8
						6.5

Test pit completed at 6.5 feet.

REMARKS

Pit 30' x 5'

Water level at time of excavation.



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CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/28/09 COMPLETED 1/28/09 GROUND ELEVATION 1064.15 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
5				GP-GM		SILTY GRAVEL , dark brown, fine to coarse gravel, some fines, little sand and cobbles, some wood waste. @ 0.5 foot: Becomes olive gray with some fine- to coarse-grained sand, little fines, little construction debris, moist. @ 4.5 feet: Becomes brown with some wood waste.
						1058.7
		TCLP	TP-33			MUNICIPAL SOLID WASTE , plastic, paper, metal, cans, and bottles. (Bulk sample weighed in excavator bucket).
						1054.7
						Test pit completed at 9.5 feet.

REMARKS

Pit 45' x 5'

∇ Water level at time of drilling.



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TEST PIT NUMBER TP-34

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/28/09 COMPLETED 1/28/09 GROUND ELEVATION 1063.54 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator ∇ AT TIME OF EXCAVATION 11.0 ft / Elev 1052.5 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
				GM		SILTY GRAVEL, light brown, fine to coarse gravel, some fines, dense, dry to damp. @ 0.5 foot: Becomes light olive gray, with little fine- to coarse-grained sand, medium-dense.
						MUNICIPAL SOLID WASTE, construction debris, concrete, and plastic, some gray silty sand.
5						
10				ML		∇ SANDY SILT, dark olive gray, fine sand, wet.
						Test pit completed at 11.5 feet.

REMARKS

Pit 20' x 5'

∇ Water level at time of excavation.



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TEST PIT NUMBER TP-35

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/28/09 COMPLETED 1/28/09 GROUND ELEVATION 1063.46 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator ∇ AT TIME OF EXCAVATION 9.0 ft / Elev 1054.5 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
5				GM		SILTY GRAVEL , brown, fine to coarse gravel, some fines, little fine- to coarse-grained sand, little wood waste. @ 0.5 foot: Becomes olive gray, with some cobbles, little wood and concrete, damp to moist.
						MUNICIPAL SOLID WASTE , construction debris, large rubble, asphalt, wire, plastic, 30% soil, moist.
				SM		SILTY SAND , olive gray, fine-grained sand, wet, strong rotting odor.
						∇ Test pit completed at 9.0 feet.

REMARKS

Pit 15' x 5'

∇ Water level at time of excavation.



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TEST PIT NUMBER TP-36

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/28/09 COMPLETED 1/28/09 GROUND ELEVATION 1063.74 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
				GM		SILTY GRAVEL , brown, fine to coarse gravel, some fines, little fine- to coarse-grained sand, damp. @ 0.5 foot: Becomes olive gray, with some well-rounded cobbles and concrete, moist.	1060.7
						WOOD WASTE , some gravel, moist.	
						MUNICIPAL SOLID WASTE , construction debris, large concrete rubble, ~30-40% soil by volume, moist. @ 7.5 feet: Waste becomes bottles, paper, plastic bags, concrete, rubble, ~30% soil. (Bulk sample weighed on scales)	1059.2
5							
10							
							1052.7

Test pit completed at 11.0 feet.

REMARKS

Pit 15' x 5'

Water level at time of excavation.



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TEST PIT NUMBER TP-37

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/28/09 COMPLETED 1/28/09 GROUND ELEVATION 1064.40 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER EXCAVATION _____

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
				GP-GM		<p>SANDY GRAVEL, dark gray, fine to coarse gravel, some fine- to coarse-grained sand, little fines, very dense, damp.</p> <p>@ 1.5 feet: Geotextile fabric. Becomes dark olive gray, with well-rounded gravel and cobbles.</p>
5						<p>MUNICIPAL SOLID WASTE, paper, plastic bags, wood, grass clippings, glass, and some silt. (Bulk Sample 3,660 lbs gross)</p>
						<p>1059.9</p> <p>1057.4</p>

Test pit completed at 7.0 feet.

REMARKS

∇ Water level at time of drilling.



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TEST PIT NUMBER TP-38

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/28/09 COMPLETED 1/28/09 GROUND ELEVATION 1063.92 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Thurber CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER EXCAVATION _____

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
				GM		SILTY GRAVEL, dark grayish-brown, fine to coarse gravel, few cobbles, some fines, little sand, moist. @ 1.0 foot: Geotextile fabric.
						MUNICIPAL SOLID WASTE, paper, cardboard, plastic bags, plastic sheeting, tires, cans, glass, wood, and some soil.
5						
						1061.4
						1057.4

Test pit completed at 6.5 feet.

REMARKS

Pit 15' x 3'

Water level at time of drilling.



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TEST PIT NUMBER TP-39

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/28/09 COMPLETED 1/28/09 GROUND ELEVATION 1064.62 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Thurber CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
				GM		SILTY GRAVEL, dark brownish gray, fine to coarse gravel with cobbles, some fines, little sand, moist, little wood waste. @ 1.0 foot: Geotextile fabric.	1062.1
						WOOD WASTE, brown, fine bark.	1061.6
				GM		SILTY GRAVEL, dark brownish gray, fine to coarse gravel with cobbles, some fines, little sand, moist, little wood waste.	1060.6
						MUNICIPAL SOLID WASTE, wood, plastic, metal cans, wire, and paper.	1056.6
5							
							1056.6

Test pit completed at 8.0 feet.

REMARKS

∇ Water level at time of excavation.



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TEST PIT NUMBER TP-40

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/28/09 COMPLETED 1/28/09 GROUND ELEVATION 1064.41 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Thurber CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
						WOOD WASTE, bark and chips, shredded wood pieces, pole wood on surface, burried logs to 2.5'.	
							1062.9
				GM		SILTY GRAVEL, gray, fine to coarse gravel, few cobbles, some fines, little sand, moist.	1062.4
						MUNICIPAL SOLID WASTE.	1061.9
				GM		SILTY GRAVEL, dark gray, fine to coarse gravel, some fines, little sand.	
						MUNICIPAL SOLID WASTE, plastic, paper, metal, wood.	1060.9
5							
							1058.4

Test pit completed at 6.0 feet.

REMARKS

Water level at time of excavation.



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TEST PIT NUMBER TP-41

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/28/09 COMPLETED 1/28/09 GROUND ELEVATION 1065.59 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Thurber CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
				GM		SILTY GRAVEL, light gray to gray, fine to coarse gravel, some fines, little sand, moist.
						WOOD WASTE, reddish brown, shredded bark, soil layers (3" to 6" thick), pungent odor, some small logs.
5						
				GM		SILTY GRAVEL, dark gray, fine to coarse gravel, some fines, little sand, moist.
10						
						WOOD WASTE, logs, some chips and silty sand.
15						

REMARKS

Water level at time of excavation.

SLR GENERAL YAKIMA.GPJ GINT US.GDT 3/18/09



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TEST PIT NUMBER TP-41

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
15						
						WOOD WASTE, logs, some chips and silty sand. (continued)
					16.0	1049.6

Test pit completed at 16 feet.

REMARKS

∇ Water level at time of excavation.



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TEST PIT NUMBER TP-42

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/28/09 COMPLETED 1/28/09 GROUND ELEVATION 1062.27 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Thurber CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
						WOOD WASTE, brown, silt, sand, gravel, fine bark and wood chips.
						1060.3
				GM		SILTY GRAVEL, gray, fine to coarse gravel, some cobbles, some fines, little sand, moist.
						1059.3
						WOOD WASTE, brown, compact, silty sand, gravel, moist, ~20% soil by volume.
5						
						@ 6.0 feet: Becomes reddish brown to yellowish brown, bark chips, trunk wood, scattered buried logs.
10						
15						
						1047.3

Test pit completed at 15.0 feet.

REMARKS

∇ Water level at time of excavation.



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TEST PIT NUMBER TP-43

PAGE 1 OF 2

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/28/09 COMPLETED 1/28/09 GROUND ELEVATION _____ HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Thurber CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
5						WOOD WASTE, dark brown, fine to coarse gravel, fines, sand, moist, (~20% soil by volume).
10				GM		9.5 SILTY GRAVEL, gray, fine to coarse gravel, abundant cobbles, some fines, little sand, moist.
15						11.0 WOOD WASTE, brown, silt, sand, gravell, chips, shredded wood, logs.

REMARKS

∇ Water level at time of excavation.

(Continued Next Page)

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TEST PIT NUMBER TP-43

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
15						
						WOOD WASTE, brown, silt, sand, gravell, chips, shredded wood, logs. <i>(continued)</i>
					19.0	

Test pit completed at 19.0 feet.

REMARKS

∇ Water level at time of excavation.



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TEST PIT NUMBER TP-44

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/29/09 COMPLETED 1/29/09 GROUND ELEVATION 1063.75 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator ∇ AT TIME OF EXCAVATION 7.0 ft / Elev 1056.8 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
						ASPHALT.	1063.6
				GM		SILTY GRAVEL, brown, fine to coarse gravel, well-rounded, some fines, little fine- to coarse-grained sand.	
							1061.3
				GW		SANDY GRAVEL, olive gray, fine to coarse gravel, some fine to coarse sand, little fines, moist.	
							1059.3
5						WOOD WASTE, bark chips, moist to wet.	
							1056.3

Test pit completed at 7.5 feet.

REMARKS

∇ Water level at time of excavation.



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TEST PIT NUMBER TP-45

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 1/27/09 COMPLETED 1/29/09 GROUND ELEVATION 1066.08 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	ELEVATION
0							
						0.3 ASPHALT	1065.8
				GP		ROAD BASE, 3/4" crushed rock	
						1.0 SILTY GRAVEL, olive gray, fine to coarse gravel, rounded to well-rounded, few cobbles, some fines, little fine- to coarse-grained sand, few metal pieces, moist.	1065.1
				GM			
5							
							1060.1

Test pit completed at 6.0 feet.

REMARKS

Pit 20' x 10'

Water level at time of excavation.

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TEST PIT NUMBER TP-46

CLIENT <u>City of Yakima</u>	PROJECT NAME <u>City of Yakima Landfill</u>
PROJECT NUMBER <u>001.0221.00004</u>	PROJECT LOCATION <u>Yakima, Washington</u>
DATE STARTED <u>2/11/09</u> COMPLETED <u>2/11/09</u>	GROUND ELEVATION <u>1069.76 ft</u> HOLE SIZE _____
EXCAVATION DRILLING CONTRACTOR <u>Wyser Construction</u>	GROUND WATER LEVELS:
EXCAVATION DRILLING METHOD <u>Excavator</u>	AT TIME OF EXCAVATION <u>Dry</u>
LOGGED BY <u>C. Lee</u> CHECKED BY _____	AT END OF <u>---</u>
NOTES _____	AFTER EXCAVATION <u>---</u>

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
5						WOOD WASTE.
10						
15						

REMARKS

Pit 30' x 5'

∇ Water level at time of excavation.

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TEST PIT NUMBER TP-46

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
15							
						WOOD WASTE. (continued)	
							18.0
						SANDY GRAVEL, gray, fine to coarse, some fine- to coarse-grained sand, moist.	1051.8
				GW			19.5
						Test pit completed at 19.5 feet.	1050.3

REMARKS

Pit 30' x 5'




Water level at time of excavation.



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TEST PIT NUMBER TP-47

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/11/09 COMPLETED 2/11/09 GROUND ELEVATION 1069.84 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY C. Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
5						WOOD WASTE, fine, bark mulch, damp.
10						@ 9.0 feet: Becomes coarse, logs, branches, and bark, damp.
15						

REMARKS

Pit 27' x 5'

Water level at time of excavation.

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TEST PIT NUMBER TP-47

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
20						WOOD WASTE, fine, bark mulch, damp. (continued)
						1046.8
				GW		SANDY GRAVEL, brown, fine to coarse gravel, some fine- to coarse-grained sand, moist.
						1045.8

Test pit completed at 24.0 feet.

REMARKS

Pit 27' x 5'

Water level at time of excavation.



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TEST PIT NUMBER TP-48

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/11/09 COMPLETED 2/11/09 GROUND ELEVATION 1069.66 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY C. Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
5						WOOD WASTE, wood chips, some bark, damp.
10						
15						

REMARKS

Pit 27' x 5'

Water level at time of excavation.





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TEST PIT NUMBER TP-48

PAGE 2 OF 2

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
15						
						WOOD WASTE, wood chips, some bark, damp. <i>(continued)</i>
20						
						
				GW	21.0 21.5	SANDY GRAVEL, gray, fine to coarse gravel, some fine- to coarse-grained sand, moist.

1048.7

1048.2

Test pit completed at 21.5 feet.

REMARKS

Pit 27' x 5'

∇ Water level at time of excavation.



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TEST PIT NUMBER TP-49

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/11/09 COMPLETED 2/11/09 GROUND ELEVATION 1069.44 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY C. Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
5						WOOD WASTE, fine, bark and sawdust, damp.
10						@ 6.0 feet: Becomes coarse, logs, branches, bark, damp.
15						

REMARKS

Pit 26' x 5'

Water level at time of excavation.

(Continued Next Page)

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TEST PIT NUMBER TP-49

PAGE 2 OF 2

CLIENT City of Yakima

PROJECT NAME City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
20						WOOD WASTE, fine, bark and sawdust, damp. (continued)	
25				SP		GRAVELLY SAND, gray, fine- to coarse-grained sand, fine to coarse gravel, moist.	1044.4

24.5 1044.9

25.0 1044.4

Test pit completed at 25.0 feet.

REMARKS

Pit 26' x 5'

Water level at time of excavation.



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TEST PIT NUMBER TP-50

PAGE 1 OF 1

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/11/09 COMPLETED 2/11/09 GROUND ELEVATION 1069.10 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY C. Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
						WOOD WASTE, fine, bark and sawdust, damp.	
5							
						CRUSHED ROCK.	1062.1
				GP			1061.1
						WOOD WASTE, coarse, logs, branches, and bark, damp.	
10							
							1055.1
14.0							

Test pit completed at 14.0 feet.

REMARKS

Pit 18' x 5'

∇ Water level at time of excavation.

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TEST PIT NUMBER TP-51

CLIENT <u>City of Yakima</u>	PROJECT NAME <u>City of Yakima Landfill</u>
PROJECT NUMBER <u>001.0221.00004</u>	PROJECT LOCATION <u>Yakima, Washington</u>
DATE STARTED <u>2/11/09</u> COMPLETED <u>2/11/09</u>	GROUND ELEVATION <u>1062.58 ft</u> HOLE SIZE _____
EXCAVATION DRILLING CONTRACTOR <u>Wyser Construction</u>	GROUND WATER LEVELS:
EXCAVATION DRILLING METHOD <u>Excavator</u>	AT TIME OF EXCAVATION <u>Dry</u>
LOGGED BY <u>C. Lee</u> CHECKED BY _____	AT END OF <u>---</u>
NOTES _____	AFTER EXCAVATION <u>---</u>

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
						WOOD WASTE, fine, bark and sawdust, damp.	
5						SILTY GRAVEL, gray, coarse gravel, moist.	1057.6
				GM		MUNICIPAL SOLID WASTE, plastic, metal, glass, paper, yard waste, moist.	1056.6
10							
12.5							1050.1

Test pit completed at 12.5 feet.

REMARKS

Pit 15' x 5'

Water level at time of excavation.



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TEST PIT NUMBER TP-52

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/11/09 COMPLETED 2/11/09 GROUND ELEVATION 1064.43 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY C. Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
						WOOD WASTE, fine, bark, damp.	
						SILTY GRAVEL, gray, medium to coarse, moist.	1060.4
5				GM			
						MUNICIPAL SOLID WASTE, silty gravel, metal, glass, paper, 50% solid waste by volume.	1059.4
10							1054.4

Test pit completed at 10.0 feet.

REMARKS

Pit 15' x 5'

∇ Water level at time of drilling.



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TEST PIT NUMBER TP-53

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/11/09 COMPLETED 2/11/09 GROUND ELEVATION 1066.08 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY C. Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	GRAPHIC LOG	MATERIAL DESCRIPTION
0					
					WOOD WASTE, fine, bark and sawdust, moist.
5					
					6.0 1060.1
					Test pit completed at 6.0 feet.

REMARKS

Pit 75' x 5'
Municipal solid waste was present from 4.0 to 6.0 feet in the southern 60' of the test pit, but not present in the northern end.

∇ Water level at time of excavation.



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TEST PIT NUMBER TP-54

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/11/09 COMPLETED 2/11/09 GROUND ELEVATION 1070.81 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY C. Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
						WOOD WASTE, fine, bark and sawdust, damp.	
5							
						CRUSHED ROCK.	1063.8
						WOOD WASTE, coarse, logs and branches, damp.	1062.8
10							
							1058.8
						Test pit completed at 12.0 feet.	

REMARKS

Pit 15' x 5'

Water level at time of excavation.



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PROJECT NUMBER <u>001.0221.00004</u>	PROJECT LOCATION <u>Yakima, Washington</u>
DATE STARTED <u>2/11/09</u> COMPLETED <u>2/11/09</u>	GROUND ELEVATION <u>1069.59 ft</u> HOLE SIZE _____
EXCAVATION DRILLING CONTRACTOR <u>Wyser Construction</u>	GROUND WATER LEVELS:
EXCAVATION DRILLING METHOD <u>Excavator</u>	AT TIME OF EXCAVATION <u>Dry</u>
LOGGED BY <u>C. Lee</u> CHECKED BY _____	AT END OF <u>---</u>
NOTES _____	AFTER EXCAVATION <u>---</u>

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
0							
						WOOD WASTE, fine, bark and sawdust, damp.	
5							
						SILTY SAND, some crushed rock, moist.	1063.6
				SM			
						WOOD WASTE, coarse, logs, branches and bark, damp.	1062.6
10							
							1056.6
Test pit completed at 13.0 feet.							

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REMARKS

Pit 16' x 5'

Water level at time of excavation.



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TEST PIT NUMBER TP-56

PAGE 1 OF 1

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/11/09 COMPLETED 2/11/09 GROUND ELEVATION 1069.22 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY C. Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
5						WOOD WASTE, fine, bark and sawdust, damp.
6.0						@ 6.0 feet: Geotextile fabric.
10				GP		SANDY GRAVEL, gray, some crushed rock and cobbles, little municipal solid waste (edge of waste), moist.
11.0						1063.2 1058.2

Test pit completed at 11.0 feet.

REMARKS

Pit 13' x 5'

∇ Water level at time of excavation.



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TEST PIT NUMBER TP-57

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/11/09 COMPLETED 2/11/09 GROUND ELEVATION 1062.81 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY C. Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	GRAPHIC LOG	MATERIAL DESCRIPTION
0					
5					WOOD WASTE, fine, bark and sawdust, damp.
10					@ 8.0 feet: Becomes coarse, logs, branches and stumps, damp.
13.0					

Test pit completed at 13.0 feet.

1049.8

REMARKS

Pit 16' x 5'

∇ Water level at time of excavation.


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TEST PIT NUMBER TP-58

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/12/09 COMPLETED 2/12/09 GROUND ELEVATION 1060.54 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY C. Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	GRAPHIC LOG	MATERIAL DESCRIPTION
0					
					WOOD WASTE, fine, bark mulch, damp.
5					
10					@ 10.0 feet: Becomes coarse, logs, branches, little scrap metal, damp.
15					

REMARKS

Pit 22' x 5'

Water level at time of excavation.

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TEST PIT NUMBER TP-58

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	GRAPHIC LOG	MATERIAL DESCRIPTION
15					
					WOOD WASTE, fine, bark mulch, damp. (continued)
				17.0	

1043.5

Test pit completed at 17.0 feet.

REMARKS

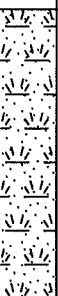

Pit 22' x 5'

Water level at time of excavation.



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CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/12/09 COMPLETED 2/12/09 GROUND ELEVATION 1065.63 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY C. Lee CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER EXCAVATION _____

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
						WOOD WASTE, fine, wood chips and bark, damp.
						1061.6
5				GM		SILTY GRAVEL, gray, coarse, some fines, moist.
						1059.6

Test pit completed at 6.0 feet.

REMARKS

Pit 30' x 5'
 Municipal solid waste present from 4.0 to 6.0 feet in the western half of the test pit, but not present in the eastern half.

Water level at time of drilling.



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TEST PIT NUMBER TP-60

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/12/09 COMPLETED 2/12/09 GROUND ELEVATION 1071.78 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY C. Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
						WOOD WASTE, fine, damp.
5						
				GP		SANDY GRAVEL, gray, coarse, some fine- to coarse-grained sand, little municipal solid waste, moist.
10						WOOD WASTE, coarse, bark, some cobbles and sand, moist.
						Test pit completed at 12.0 feet.

REMARKS

Pit 18' x 5'

Water level at time of excavation.

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TEST PIT NUMBER TP-61

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/12/09 COMPLETED 2/12/09 GROUND ELEVATION 1067.55 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY C. Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
5						WOOD WASTE, fine, bark and sawdust, damp.
6.0						1061.6
				GM		SILTY GRAVEL, gray, medium to coarse, some fines, moist.
8.0						1059.6
10						MUNICIPAL SOLID WASTE, plastic, paper, glass, soil, moist, strong odor.
12.5						1055.1

Test pit completed at 12.5 feet.

REMARKS

Pit 16' x 5'

Water level at time of excavation.

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CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/12/19 COMPLETED 2/12/09 GROUND ELEVATION 1065.44 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY C. Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	GRAPHIC LOG	MATERIAL DESCRIPTION
0					
5					WOOD WASTE, fine, bark, sawdust and mulch, damp.
10					@ 7.0 feet: Becomes coarse, logs, branches and bark, damp.
12.0					1053.4

Test pit completed at 12.0 feet.

REMARKS
 Pit 13' x 5'

∇ Water level at time of excavation.

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TEST PIT NUMBER TP-63

CLIENT City of Yakima PROJECT NAME City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/12/09 COMPLETED 2/12/09 GROUND ELEVATION 1065.00 ft HOLE SIZE _____
 EXCAVATION DRILLING CONTRACTOR Wyser Construction GROUND WATER LEVELS:
 EXCAVATION DRILLING METHOD Excavator AT TIME OF EXCAVATION Dry
 LOGGED BY M. Staton CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER EXCAVATION ---

DEPTH (ft)	INTERVAL	TYPE	NAME	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0						
					0.5	ASPHALT.
					SP	GRAVELLY SAND, dark brown to gray, fine- to coarse-grained, some fine to coarse gravel, few cobbles, moist, few wood debris and metal debris.
5						
10						
					11.0	

@ 11.0 feet: Becomes moist.
 Test pit completed at 11.0 feet.

1054.0

REMARKS

Pit 15' x 5'

Water level at time of excavation.



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BORING NUMBER SB-1

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/9/09 COMPLETED 2/9/09 GROUND ELEVATION 1053.37 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING 17.0 ft / Elev 1036.4 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
2.5		D&M		66	12	GM		SILTY GRAVEL, brown, fine to coarse, some fines, few bricks, loose dry. @ 3.0 feet: Becomes black, with some municipal solid waste (glass, plastic, wood), little sand.
5.0		D&M		100	50/4"			@ 5.0 feet: Becomes very dense.
7.5		D&M		80	6			WOOD WASTE, loose, moist to wet. 1045.9
8.5								SILT, Black, organic, little municipal solid waste, medium dense, moist to wet. 1044.9
10.0		D&M		60	21	OL		
12.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.

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CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		D&M		5	36			SILT, Black, organic, little municipal solid waste, medium dense, moist to wet. (continued)
15.0		D&M		0	11	OL		
17.5								∇ @ 17 feet: Becomes wet.
		D&M		80	40	GP		SANDY GRAVEL, dark olive gray, fine to medium, subrounded to rounded, some angular, some sand, medium dense, wet. 1035.4
20.0						SP		SAND, dark gray, fine- to medium-grained, very dense, wet. 1033.9
		D&M		120	50/6"	GW		SANDY GRAVEL, olive gray, fine to coarse, some fine- to coarse-grained sand, trace cobbles, very dense, wet. 1032.9
								Boring completed at 21.0 feet. 1032.4

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/9/09 COMPLETED 2/9/09 GROUND ELEVATION 1054.95 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger ∇ AT TIME OF DRILLING 18.0 ft / Elev 1037.0 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								WOOD WASTE, intermixed fine to coarse-grained gravel, loose.
2.5		D&M		5	9			@ 2.5 feet: Becomes intermixed with brown silty sand and organics.
5.0		D&M		5	18			@ 5.0 feet: Becomes medium dense.
7.5		D&M		30	8			MUNICIPAL SOLID WASTE, dark grey, silt, sand, plastic, glass, and wood waste, loose, moist.
10.0		D&M		10	4			@ 10 feet: Becomes particle board and painted wood, moist.
12.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.

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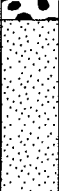
BORING NUMBER SB-2

CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004


PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
	X	D&M		100	12			MUNICIPAL SOLID WASTE , dark grey, silt, sand, plastic, glass, and wood waste, loose, moist. <i>(continued)</i> @ 12.5 feet: Becomes silty sand, olive gray, fine- to medium-grained (60% by volume), paper, glass, wood (40% by volume), moist.
								1041.5
15.0	X	D&M		90	5	SP		SAND , olive gray, fine-grained, some medium-grained rounded gravel, trace silt, loose, moist.
								1038.0
17.5	X	D&M			33	GW		SANDY GRAVEL , olive gray, fine to coarse, well-rounded, fine- to coarse-grained sand, trace silt, medium dense, wet.
								1035.5
20.0	X	D&M			8	SP		GRAVELLY SAND , olive gray, fine to coarse, fine to medium well-rounded gravel, loose, wet.
								1033.5
								21.5

Boring completed at 21.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

 Water level at time of drilling.



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BORING NUMBER SB-3

CLIENT <u>City of Yakima</u>	PROJECT NAME <u>Former City of Yakima Landfill</u>
PROJECT NUMBER <u>001.0221.00004</u>	PROJECT LOCATION <u>Yakima, Washington</u>
DATE STARTED <u>2/9/09</u> COMPLETED <u>2/9/09</u>	GROUND ELEVATION <u>1057.91 ft</u> HOLE SIZE <u>8.5" Diameter</u>
DRILLING CONTRACTOR <u>Cascade Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	∇ AT TIME OF DRILLING <u>19.0 ft / Elev 1038.9 ft</u>
LOGGED BY <u>B. Robinson</u> CHECKED BY _____	AT END OF _____
NOTES _____	AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
						ML		GRAVELLY SILT, brown, some fine to coarse gravel, intermixed wood waste.
								1.3 ----- 1056.7 WOOD WASTE, bark mulch, loose, moist.
2.5		D&M		60	12			
5.0		D&M		0	5			
7.5		D&M		45	23			7.0 ----- 1050.9 SILTY SAND, olive gray, fine-grained, some fines, little fine to coarse gravel, medium dense to loose, moist.
10.0		D&M		10	7	SP-SM		@ 10 feet: Gravel caught in sampler, no recovery.
12.5		D&M		30	9			12.0 ----- 1045.9 MUNICIPAL SOLID WASTE, wood, paper, cloth, silty sand (25% by volume), loose, wet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.

SLR SB LOG YAKIMA SOIL BORINGS.GPJ_GINT US.GDT 4/13/09






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BORING NUMBER SB-3

PAGE 2 OF 2

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
15.0	X							MUNICIPAL SOLID WASTE, wood, paper, cloth, silty sand (25% by volume), loose, wet. (continued)
15.5	X	D&M		100	10	SM		SILTY SAND, olive gray, fine-grained, some fines, some organics, loose, moist. 1042.4
17.5	X	D&M		60	50/4"	GW		SANDY GRAVEL, gray, fine to coarse, some fine to coarse-grained sand, rounded, very dense, moist to wet. 1040.9
20.0	X	D&M		0	50/4"			@ 20.0 feet: Sampler wet. 1037.4

Boring completed at 20.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.

SLR SB LOG - YAKIMA SOIL BORINGS.GPJ GINT US.GDT 4/13/09



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/9/09 COMPLETED 2/9/09 GROUND ELEVATION 1059.17 ft HOLE SIZE 8.5" Diameter
 DRILLING DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING 17.0 ft / Elev 1042.2 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 AFTER DRILLING _____

NOTES _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								WOOD WASTE, large pieces of wood up to 12 inches.
2.5		SS		100	7			@ 2.5 feet: Becomes reddish brown, bark mulch, loose, moist.
5.0		SS		10	50/5"			@ 5.0 feet: Becomes fine bark mulch, dense.
7.5		SS		10	10			
10.0		SS		40	9			@ 10.0 feet: Trace gravel, loose.
10.5								MUNICIPAL SOLID WASTE, dark gray, paper and yard waste, loose.
12.5								

REMARKS
 SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.

SLR GENERAL YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09






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CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		SS		100	13			<p>MUNICIPAL SOLID WASTE, dark gray, paper and yard waste, loose. (continued) @ 12.5 feet: Becomes plastic, paper, and soil (25% by volume). 1045.7</p>
15.0								
		SS			14	SM		<p>SILTY SAND, fine-grained, some fines, some waste, loose. @ 14.5 feet: Becomes olive gray, some organics, no waste, wet.</p>
17.5								
		SS			50/3"	GW		<p>SANDY GRAVEL, gray, fine to coarse, some fine to coarse-grained sand, very dense, wet. 1042.2</p>
								<p>Boring complete, refusal at 18.0 feet. Sampler wet. 1041.2</p>

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

▽ Water level at time of drilling.



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BORING NUMBER SB-5

PAGE 1 OF 2

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/9/09 COMPLETED 2/9/09 GROUND ELEVATION 1058.29 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
						GP		GRAVEL, 1058.0 WOOD WASTE, bark mulch, some sand, loose, moist.
2.5		D&M		80	15			@ 2.0 feet: Plastic sheets in wood waste.
5.0		D&M		70	14			
7.5		D&M		60	7			
10.0		D&M		25	7			
12.5		D&M		25	6			
								6.0 1052.3 MUNICIPAL SOLID WASTE, wood waste, paper, metal foil, (50% wood waste by volume), loose, wet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.

(Continued Next Page)

SLR SB LOG - YAKIMA SOIL BORINGS.GPJ GINT US.GDT 4/13/09



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BORING NUMBER SB-5

PAGE 2 OF 2

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	
15.0	X							MUNICIPAL SOLID WASTE, wood waste, paper, metal foil, (50% wood waste by volume), loose, wet. (continued)	
	X	D&M		60	16			SILTY SAND, dark olive gray, fine- to coarse-grained, some fines, medium dense, moist.	1042.3
17.5	X	D&M		100	50/6"			SILTY GRAVEL, olive gray, fine to coarse, subangular to rounded, some silt, little fine- to coarse-grained sand, trace cobbles, very dense, moist to wet.	1041.3
						GW-GM			1039.8
Boring completed at 18.5 feet.									

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.

SLR SB LOG YAKIMA SOIL BORINGS.GPJ GINT US.GDT 4/13/09



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BORING NUMBER SB-6

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/10/09 COMPLETED 2/10/09 GROUND ELEVATION 1060.02 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger ∇ AT TIME OF DRILLING 17.0 ft / Elev 1043.0 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
						GP		0.3 GRAVEL , WOOD WASTE , bark mulch, soil, 50-60% wood waste by volume, moist. 1059.8
								1.0 SILTY GRAVEL , dark gray, fine to coarse, rounded, some fines, little fine- to coarse-grained sand, medium dense, moist. 1059.0
2.5								
		D&M		90	34	GM		
5.0								
		D&M		70	12			5.5 MUNICIPAL SOLID WASTE , plastic, paper, glass, tires, wood, soil (25% by volume), loose, moist. 1054.5
7.5								
		D&M		60	53			@ 7.5 feet: Gravel caught in sampler.
10.0								
		D&M		40	3			@ 10 feet: Soil 30-40% by volume.
12.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.

SLR GENERAL YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09



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BORING NUMBER SB-6

CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill


PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		D&M		40	9			MUNICIPAL SOLID WASTE, plastic, paper, glass, tires, wood, soil (25% by volume), loose, moist. (continued)
15.0								
		D&M		66	43			SANDY GRAVEL, dark gray, fine to coarse, rounded, some fine- to coarse-grained sand, trace to few fines, dense to very dense, moist.
17.5						GW		@ 17 feet: Becomes wet.
		D&M			50/4"			
								Boring complete, refusal at 18.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

 Water level at time of drilling.



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BORING NUMBER SB-7

PAGE 1 OF 2

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/10/09 COMPLETED 2/10/09 GROUND ELEVATION 1062.05 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING 17.0 ft / Elev 1045.1 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
2.5								WOOD WASTE, bark mulch intermixed with gravel, loose.
3.0								1059.1
3.5		D&M		70	14	GM		SILTY GRAVEL, dark olive gray, fine to coarse, subangular to rounded, some fines, little fine- to coarse-grained sand, loose, moist. 1058.6
5.0		D&M			50/4"			MUNICIPAL SOLID WASTE, paper, plastic, cloth, wood, soil (<25% by volume), very dense to loose, moist, strong odor.
6.0								From 6.0 to 7.0 feet: Drilling through wood.
7.5		D&M		100	50/3"			
10.0		D&M		0	9			
12.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.

(Continued Next Page)

SLR GENERAL YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09



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BORING NUMBER SB-7

CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		D&M		5	8			MUNICIPAL SOLID WASTE , paper, plastic, cloth, wood, soil (<25% by volume), very dense to loose, moist, strong odor. <i>(continued)</i> @ 12.5 feet: Wood and grass clippings in cuttings.
15.0								
		D&M		40	15			@ 15.0 feet: Wood and paper.
								1046.1
17.5								
		D&M			73	GW		SANDY GRAVEL , olive gray, fine to coarse, rounded, some fine- to coarse-grained sand, little silt, very dense, moist to wet. ∇ @ 17.0 feet: Becomes wet. @ 17.5 feet: Cobble stuck in sampler, oil sheen on sample.
								1043.1
Boring completed at 19.0 feet.								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.



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BORING NUMBER SB-8

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/10/09 COMPLETED 2/10/09 GROUND ELEVATION 1063.18 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger ∇ AT TIME OF DRILLING 18.5 ft / Elev 1044.7 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
						GP		0.3 GRAVEL 1062.9 SILTY GRAVEL , olive gray, fine to coarse, subangular to rounded, some fines, little fine- to coarse-grained sand, very dense, damp. From 2.0 to 6.0 feet: Difficult drilling, few wood waste, dense.
2.5								
	X	D&M		80	50/4"			
5.0						GM		
	X	D&M		100	40			@ 6.0 feet: Becomes dark gray, fine to medium, trace waste (paper and plastic), very loose, moist.
7.5								
	X	D&M		66	3			
10.0								9.5 MUNICIPAL SOLID WASTE , plastic, paper, glass, ~40% to 50% soil, loose, moist 1053.7
	X	D&M		40	6			
12.5								
	X	D&M		66	8			

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.

SLR SB LOG YAKIMA SOIL BORINGS.GPJ GINT US.GDT 4/13/09



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BORING NUMBER SB-8

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
15.0	X							MUNICIPAL SOLID WASTE , plastic, paper, glass, ~40% to 50% soil, loose, moist (<i>continued</i>)
		D&M		10	5			@ 15.0 feet: Tire caught in sampler.
17.5	X							
		D&M		70	27	SM		SILTY SAND , olive gray, fine-grained sand, some fines, trace organics, loose, moist. 1046.2
						GW		SANDY GRAVEL , dark olive gray, fine to coarse, some fine- to coarse-grained sand, medium dense, wet. 1044.7
								Boring completed at 19.0 feet. 1044.2

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

▽ Water level at time of drilling.



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BORING NUMBER SB-9

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/10/09 COMPLETED 2/10/09 GROUND ELEVATION 1062.66 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger ∇ AT TIME OF DRILLING 17.0 ft / Elev 1045.7 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
2.5								WOOD WASTE, bark mulch and branches.
2.5								1060.2
5.0		D&M		60	16	GP-GM		SILTY GRAVEL, grayish brown, fine to coarse, angular to rounded, some silt, little fine- to coarse-grained sand, medium dense, moist, few concrete rubble.
5.0								1058.2
7.5		D&M		50	7			MUNICIPAL SOLID WASTE, metal, glass, paper, ~25% soil, loose.
7.5								@7.5 feet: Becomes wood and concrete, (cobble caught in sampler).
10.0		D&M		70	14			
10.0								1053.2
12.5		D&M		100	4	SM		SILTY SAND, dark olive brown, fine- to medium-grained, little wood waste, loose, moist, strong odor.
12.5								@ 12.5 feet: decreased wood waste.

REMARKS
 SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.
 ∇ Water level at time of drilling.

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BORING NUMBER SB-9

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
	X							SILTY SAND , dark olive brown, fine- to medium-grained, little wood waste, loose, moist, strong odor. <i>(continued)</i>
15.0								@14.5 feet: Becomes olive brown, fine-grained, trace to few wood and bark, moist.
	X	D&M		100	3	SM		
17.5								∇ @17 feet: Becomes olive gray, fine- to medium-grained, trace wood, wet.
	X	D&M		100	6			
20.0								19.5 SANDY GRAVEL , olive gray, fine to coarse, some fine- to coarse-grained sand, rounded to well rounded, few cobbles, medium dense, wet. 1043.2
	X	D&M			37	GW		
								21.5 1041.2

Boring completed at 21.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.



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BORING NUMBER SB-10

PAGE 1 OF 2

CLIENT <u>City of Yakima</u>	PROJECT NAME <u>Former City of Yakima Landfill</u>
PROJECT NUMBER <u>001.0221.00004</u>	PROJECT LOCATION <u>Yakima, Washington</u>
DATE STARTED <u>2/10/09</u> COMPLETED <u>2/10/09</u>	GROUND ELEVATION <u>1063.96 ft</u> HOLE SIZE <u>8.5" Diameter</u>
DRILLING CONTRACTOR <u>Cascade Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	▽ AT TIME OF DRILLING <u>17.0 ft / Elev 1047.0 ft</u>
LOGGED BY <u>B. Robinson</u> CHECKED BY _____	AT END OF <u>---</u>
NOTES _____	AFTER DRILLING <u>---</u>

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
2.5		D&M		100	41			WOOD WASTE , bark mulch, trace fine- to medium-grained gravel, dense, moist.
3.5								SILTY GRAVEL , olive gray, fine to coarse, well-rounded, some fines, little fine- to coarse-grained sand, damp, few concrete rubble. From 4.0 to 6.0 feet: Difficult drilling.
5.0		D&M		70	14	GM		
6.0								MUNICIPAL SOLID WASTE , paper, glass, loose, wood.
7.0								SILTY GRAVEL , dark olive gray, fine to coarse, some silt, little fine- to coarse-grained sand, loose to very loose, moist.
7.5		D&M		70	6			
10.0		D&M		50	12	GW-GM		@ 10.0 feet: Little wood and plastic.
12.5		D&M		100	5			
13.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

▽ Water level at time of drilling.

(Continued Next Page)

SLR SB LOG YAKIMA SOIL BORINGS.GPJ GINT US.GDT 4/13/09



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CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
15.0								MUNICIPAL SOLID WASTE, glass, paper, wood, 25% soil, very loose.
		D&M		40	5			@ 15 feet: Becomes silty sand (75% by volume), and solid waste.
17.5								17.0 ▽ SANDY GRAVEL, olive gray, fine to coarse, well-rounded, few cobbles, fine- to coarse-grained sand, very dense, wet. 1047.0
		D&M		90	72	GW		19.0 1045.0

Boring completed at 19.0 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

▽ Water level at time of drilling.



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BORING NUMBER SB-11

CLIENT <u>City of Yakima</u>	PROJECT NAME <u>Former City of Yakima Landfill</u>
PROJECT NUMBER <u>001.0221.00004</u>	PROJECT LOCATION <u>Yakima, Washington</u>
DATE STARTED <u>2/10/09</u> COMPLETED <u>2/10/09</u>	GROUND ELEVATION <u>1064.00 ft</u> HOLE SIZE <u>8.5" Diameter</u>
DRILLING CONTRACTOR <u>Cascade Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	AT TIME OF DRILLING <u>Dry</u>
LOGGED BY <u>B. Robinson</u> CHECKED BY _____	AT END OF <u>---</u>
NOTES _____	AFTER DRILLING <u>---</u>

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
						WW		WOOD WASTE.
								1062.0
2.5		D&M		80	40	GM		SILTY GRAVEL, grayish brown, fine to coarse, rounded, some fines, little fine-to coarse-grained sand, medium dense.
								1059.5
5.0		D&M		70	40			MUNICIPAL SOLID WASTE, glass, paper, cloth, plastic, little silty sand (25% by volume), medium dense to loose.
								@ 7.5 feet: Becomes 75% soil by volume, strong odor.
7.5		D&M		75	11			
								@ 10.0 feet: Tire tube caught in sampler.
10.0		D&M		10	11			
								1052.0
12.5						GM		SILTY GRAVEL, dark olive brown, fine to coarse, rounded, some fines, few waste (linoleum), very loose, moist.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.

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BORING NUMBER SB-11

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		D&M		100	4	GM		SILTY GRAVEL , dark olive brown, fine to coarse, rounded, some fines, few waste (linoleum), very loose, moist. <i>(continued)</i>
								14.5 ----- 1049.5
15.0								
		D&M			36	SM		SILTY SAND , olive brown, fine-grained, little wood waste, medium dense, moist
								@ 16.0 feet: Becomes olive gray, fine- to medium-grained, no waste.
								17.0 ----- 1047.0
17.5								
		D&M			50/6"	GW		SANDY GRAVEL , olive gray, fine to coarse, well-rounded, some fine- to coarse-grained sand, moist.
								18.5 ----- 1045.5

Boring completed at 18.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.



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BORING NUMBER SB-12

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/10/09 COMPLETED 2/10/09 GROUND ELEVATION 1063.26 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING 18.0 ft / Elev 1045.3 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
2.5								WOOD WASTE, little fine- to coarse-grained sand, little silt, few fine gravel.
3.0								1060.3
5.0		D&M		90	11			MUNICIPAL SOLID WASTE, loose.
7.5		D&M		5	40			@ 5 feet: Wood caught in shoe.
10.0		D&M		50	50/5"			@ 7.5 feet: Glass, paper, plastic, grass clippings, some silty sand (50% by volume), very dense.
12.5		D&M		100	85			@ 10.0 feet: Roofing material.

SLR GENERAL YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09

REMARKS



SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		D&M		80	6			MUNICIPAL SOLID WASTE, loose. (continued) @ 12.5 feet: Glass, paper, plastic, wood, silty fine gravel (50% by volume), very loose.
15.0								
		D&M		70	36			@ 15.0 feet: Metal, plastic, wood, silty fine gravel (25% by volume), medium dense.
17.5								
		D&M		5	50/6"			@ 17.5 feet: Cobble caught in sampler.
18.0								1045.3
						GW		SANDY GRAVEL , olive gray, fine to coarse, well-rounded, fine- to coarse-grained sand, trace silt, dense, wet.
20.0								
		D&M			64			
21.5								1041.8

Boring completed at 21.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

▽ Water level at time of drilling.



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BORING NUMBER SB-13

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/11/09 COMPLETED 2/11/09 GROUND ELEVATION 1060.65 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING ---
 LOGGED BY B. Robinson CHECKED BY --- AT END OF ---
 NOTES --- AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								WOOD WASTE, little gravel, little silt, few sand, moist.
2.5								
		D&M	SB13-S1	75	12			MUNICIPAL SOLID WASTE, paper, grass, glass, ~10% soil, loose, moist. 1057.7
5.0								
		D&M	SB13-S2	75	15			
7.5								@ 7.5 feet: Paper, plastic, grass clippings, soil (<5% by volume), medium dense.
		D&M		80	27			
10.0								@ 10.0 feet: Glass, grass clippings, soil (25% by volume), medium dense.
		D&M		40	40			
12.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

SLR GENERAL YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09





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CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		D&M		20	9			MUNICIPAL SOLID WASTE , paper, grass, glass, ~10% soil, loose, moist. <i>(continued)</i>
15.0		D&M		10	16			@ 15.0 feet: Becomes silty sand (70% by volume), and 30% wood, medium dense.
17.5		D&M		15	39			Waste: Sand and gravel (70% by volume), plastic sheeting.
								1042.7
20.0						GW		SANDY GRAVEL , olive gray, fine to coarse, some fine- to coarse-grained sand, medium dense, moist to wet. From 19.0 to 23.0 feet: Difficult drilling.
22.5								
								23.0
								1037.7

Boring completed at 23.0 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

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BORING NUMBER SB-14

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/11/09 COMPLETED 2/11/09 GROUND ELEVATION 1060.74 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING 21.0 ft / Elev 1039.7 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
2.5								SILTY GRAVEL, fine to coarse, some fines, some wood waste, medium dense to loose.
5.0		D&M		0	39	GM		
6.0		D&M	SB14-S1A, SB14-S1B	80	6			@ 5.0 feet: Becomes dark olive brown, little fine- to coarse-grained sand, few municipal waste, loose, moist.
7.5		D&M		0	4			MUNICIPAL SOLID WASTE, soil, wood, paper, plastic, glass, very loose.
10.0		D&M	SB14-S2	40	30			@ 7.5 feet: Plastic caught in sampler. @ 10.0 feet: Paper, plastic, glass, soil, medium dense, moist.
12.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.

SLR GENERAL YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09







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CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		D&M		10	13			MUNICIPAL SOLID WASTE , soil, wood, paper, plastic, glass, very loose. <i>(continued)</i> @ 12.5 feet: Wood, glass, paper, very moist. Wood caught in sampler, limited recovery.
15.0								
		D&M		5	8			@ 15 feet: Paper, loose.
17.5								
		D&M	SB14-S3	40	13			@ 17.5 feet: Metal can, plastic, wood, fabric, soil (10% by volume), moist, loose.
20.0								
		D&M	SB14-S4	80	34	GW		SANDY GRAVEL , olive gray, fine to coarse, well-rounded, fine- to coarse-grained sand, moist.
								@ 21 feet: Becomes wet.
								∇
								21.5
								Boring completed at 21.5 feet.

1042.7

1039.2

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.



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BORING NUMBER SB-15

PAGE 1 OF 2

CLIENT <u>City of Yakima</u>	PROJECT NAME <u>Former City of Yakima Landfill</u>
PROJECT NUMBER <u>001.0221.00004</u>	PROJECT LOCATION <u>Yakima, Washington</u>
DATE STARTED <u>2/11/09</u> COMPLETED <u>2/11/09</u>	GROUND ELEVATION <u>1058.77 ft</u> HOLE SIZE <u>8.5" Diameter</u>
DRILLING CONTRACTOR <u>Cascade Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	∇ AT TIME OF DRILLING <u>21.0 ft / Elev 1037.8 ft</u>
LOGGED BY <u>B. Robinson</u> CHECKED BY _____	AT END OF ---
NOTES _____	AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
								WOOD WASTE, bark mulch. 1058.3
2.5		D&M	SB15-S1	60	32	GM		
								SILTY GRAVEL, dark brown, medium to coarse, well-rounded, some silt, little fine- to medium-grained sand, few cobbles, medium dense, damp. 1058.3
5.0		D&M	SB15-S2	33	9			@ 4.5 feet: Becomes olive gray, some fines, little sand, loose, moist to wet.
7.5		D&M	SB15-S3	10	4			MUNICIPAL SOLID WASTE, styrofoam, plastic, wood, silty sand (40% by volume) 1051.8
10.0		D&M	SB15-S4	30	4			@ 10.0 feet: Tires, plastic, wood, soil (20% by volume), loose.
12.5		D&M	SB15-S5	45	30			@ 12.5 feet: Paper, grass, wood, glass, plastic, medium dense.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.

(Continued Next Page)

SLR SB LOG YAKIMA SOIL BORINGS GPJ GINT US GDT 4/13/09



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CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
15.0	X							MUNICIPAL SOLID WASTE , styrofoam, plastic, wood, silty sand (40% by volume) <i>(continued)</i>
		D&M		0	14			@ 15.0 feet: No recovery.
17.5	X							@ 17.5 feet: No recovery, piece of wood blocking sampler.
		D&M		<5	9			
20.0	X							19.5 ----- 1039.3 SILTY SAND
		D&M		20	38	SM		21.0 ▽ 1037.8
						GW		21.5 1037.3 SANDY GRAVEL , olive gray, fine to coarse, rounded, some fine- to coarse-grained sand, medium dense, wet. Boring completed at 21.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

▽ Water level at time of drilling.



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BORING NUMBER SB-16

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/11/09 COMPLETED 2/11/09 GROUND ELEVATION 1056.25 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger ∇ AT TIME OF DRILLING 17.0 ft / Elev 1039.3 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
						GW		SANDY GRAVEL , dark olive brown, fine to coarse, well-rounded, some fines, little fine- to coarse-grained sand, few cobbles, medium dense, damp.
2.5								
		D&M	SB16-S1	40	32	GM		SILTY GRAVEL , olive gray, medium to coarse, some fines, little fine- to medium-grained sand, medium dense, moist.
5.0								
		D&M		0	9			MUNICIPAL SOLID WASTE , wood, grass, paper, glass, plastic, metal, loose.
7.5								
		D&M	SB16-S2	33	3			
10.0								
		D&M		15	2			
12.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.

SLR GENERAL YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09





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CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		D&M		0	10			MUNICIPAL SOLID WASTE, wood, grass, paper, glass, plastic, metal, loose. (continued)
15.0								
		D&M	SB16-S3	40	43			
17.5								
		D&M	SB16-S4	90	33			SANDY GRAVEL, olive gray, fine to coarse, well-rounded, some fine- to coarse-grained sand, medium dense, wet.
20.0								
		D&M	SB16-S5	66	26	GW		

17.0 ∇ 1039.3

21.5 1034.8

Boring completed at 21.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/11/09 COMPLETED 2/11/09 GROUND ELEVATION 1053.21 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING ---
 LOGGED BY B. Robinson CHECKED BY --- AT END OF ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
2.5		D&M		25	14	ML		GRAVELLY SILT, brown, fine to coarse, subangular to well-rounded gravel, some fines, little sand, organic, few construction debris, stiff, dry.
5.0		D&M	SB17-S1, SB17-S2	30	8			
6.0								1047.2 MUNICIPAL SOLID WASTE, glass, plastic, loose.
7.5		D&M	SB17-S3	40	50/5"			@ 7.5 feet: Gravel, silt, paper, plastic, and glass, very dense.
10.0		D&M		0	50/1"			@ 10.0 feet: Plastic sheet on outside of sampler, no recovery.
11.5						GP		1041.7 SANDY GRAVEL, olive gray with orange staining, fine to coarse, well-rounded, some fine- to coarse-grained sand, few cobbles, damp.
12.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
	X	D&M	SB17-S4	100	50/5"	GP		SANDY GRAVEL, olive gray with orange staining, fine to coarse, well-rounded, some fine- to coarse-grained sand, few cobbles, damp. (continued)
15.0								
	X	D&M	SB17-S5	20	50/5"			
								16.0

Boring completed at 16 feet.

1037.2

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/12/09 COMPLETED 2/12/09 GROUND ELEVATION 1064.27 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING ---
 LOGGED BY B. Robinson CHECKED BY --- AT END OF ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
2.5								WOOD WASTE, reddish brown, bark mulch.
5.0		D&M	SB18-S1	100	12			
6.0								1058.3 MUNICIPAL SOLID WASTE, silty gravel (90% by volume), glass, metal, medium dense, moist.
7.5		D&M	SB18-S2	100	17			@ 7.5 feet: Gravelly sand (60% by volume), paper, wood, glass, plastic, moist.
10.0		D&M	SB18-S3	50	24			@ 10.0 feet: Soil (10% by volume), paper, wood, plastic, very dense, moist.
12.5		D&M	SB18-S4	70	50/4"			

REMARKS







SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		D&M	SB18-S5	35	14			MUNICIPAL SOLID WASTE , silty gravel (90% by volume), glass, metal, medium dense, moist. <i>(continued)</i> @ 12.5 feet: Soil (25% by volume), tires, plastic, wood, loose, moist.
15.0								
		D&M	SB18-S6	45	8			@ 15 feet: Soil (10% by volume), plastic, tires, loose, moist to wet.
17.5								
		D&M	SB18-S7	33	54			@ 17.5 feet: Silty sand (50% by volume), paper, metal, moist.
						SM		19.0 1045.3 19.5 1044.8 SILTY SAND , fine-grained, some silt, organic, dense, moist.
20.0		D&M	SB18-S8	100	67			SANDY GRAVEL , olive gray, fine to coarse, some fine- to coarse-grained sand, few cobbles, dense.
						GW		
22.5								
								1041.3

Boring completed at 23.0 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.



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BORING NUMBER SB-19

PAGE 1 OF 2

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/12/09 COMPLETED 2/12/09 GROUND ELEVATION 1060.86 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING 18.5 ft / Elev 1042.4 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
2.5								WOOD WASTE, some fine to medium gravel, loose.
5.0		D&M	SB19-S1	80	11			
5.5						SM		1055.4 SILTY SAND, olive gray, fine-grained, some fines, little wood, few bricks.
7.5		D&M	SB19-5.5-6'	85	10			7.0 1053.9 MUNICIPAL SOLID WASTE, Soil (50% by volume), plastic, wood, layers of waste and soil, very loose.
10.0		D&M	SB19-S2	60	5			
12.5		D&M	SB19-S3	60	3			@ 10.0 feet: Silty sand layer 8" thick, wood, plastic, glass, very loose, moist.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.





(Continued Next Page)

SLR GENERAL YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		D&M	SB19-S4	10	12			MUNICIPAL SOLID WASTE , Soil (50% by volume), plastic, wood, layers of waste and soil, very loose. <i>(continued)</i> @12.5 feet: Soil and decomposable (80% by volume), plastic, loose, moist.
15.0								
		D&M	SB19-S5	40	18			@ 15.0 feet: soil, wood, paper, glass, plastic, medium dense, moist.
17.5								
		D&M	SB19-S6	90	44			@ 17.5 feet: soil, wood, metal, dense, moist.
								1042.9
		D&M	SB19-S7	20	32	GP		SANDY GRAVEL , olive gray, fine to coarse, well-rounded, some fine- to coarse-grained sand, few cobbles, dense to medium dense, moist to wet.
20.0								
								1040.4

Boring completed at 20.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.

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BORING NUMBER SB-20

PAGE 1 OF 2

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/12/09 COMPLETED 2/12/09 GROUND ELEVATION 1062.25 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger ∇ AT TIME OF DRILLING 18.5 ft / Elev 1043.8 ft
 LOGGED BY C. Lee CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								WOOD WASTE, fine, trace fine to medium gravel, medium dense, moist.
2.5								
		D&M	SB20-S1	100	16			
4.5								1057.8
						SM		SILTY SAND, gray, little fine- to coarse-grained, some fines, fine to coarse gravel, rounded, trace glass and plastic, medium dense, moist .
5.0								
		D&M	SB20-S2	80	19			
7.0								1055.3
								MUNICIPAL SOLID WASTE, Soil (25% by volume), glass, plastic, metal, wood, medium dense, moist.
7.5								
		D&M	SB20-S3	66	16			
10.0								@ 10.0 feet: Paper, yard waste, soil, very loose, moist.
		D&M	SB20-S4	33	5			
12.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.



(Continued Next Page)

SLR GENERAL YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
	X	D&M	SB20-S5	66	12			MUNICIPAL SOLID WASTE , Soil (25% by volume), glass, plastic, metal, wood, medium dense, moist. <i>(continued)</i> @ 12.5 feet: Decomposable (90% by volume), paper, plastic, glass, loose, moist.
15.0								
	X	D&M	SB20-S6	33	18			@ 15.0 feet: Paper, medium dense.
17.5								
	X	D&M	SB20-S7	30	36/6"	GW		SANDY GRAVEL , gray, fine to coarse, some fine- to medium-grained sand, little fines, moist.
20.0								
	X	D&M	SB20-S8	66	36			@ 18.5 feet: Becomes wet.
20.5								Boring completed at 20.5 feet.

15.5

1046.8

20.5

1041.8

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

▽ Water level at time of drilling.



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BORING NUMBER SB-21

CLIENT <u>City of Yakima</u>	PROJECT NAME <u>Former City of Yakima Landfill</u>
PROJECT NUMBER <u>001.0221.00004</u>	PROJECT LOCATION <u>Yakima, Washington</u>
DATE STARTED <u>2/12/09</u> COMPLETED <u>2/12/09</u>	GROUND ELEVATION <u>1063.80 ft</u> HOLE SIZE <u>8.5" Diameter</u>
DRILLING CONTRACTOR <u>Cascade Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	∇ AT TIME OF DRILLING <u>19.0 ft / Elev 1044.8 ft</u>
LOGGED BY <u>C. Lee</u> CHECKED BY _____	AT END OF ---
NOTES _____	AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
2.5								WOOD WASTE , fine, bark and sawdust, few fine to medium gravel, loose to medium dense, damp.
5.0		D&M	SB21-S1	100	6			
7.5		D&M	SB21-S2	100	16			
8.5		D&M	SB21-S3	100	24			
8.5						SM		SILTY SAND , gray, fine- to coarse-grained, some fines, little fine to coarse gravel, few cobbles, medium dense, moist. 1055.3
9.5								MUNICIPAL SOLID WASTE. 1054.3
10.0		D&M	SB21-S4	5	4			@ 10.0 feet: Soil/decomposable (95% by volume), paper, very loose.
12.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.

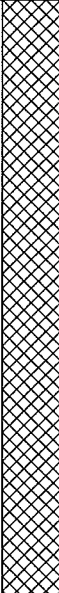
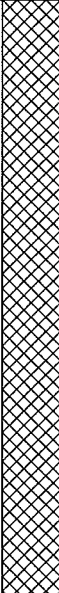
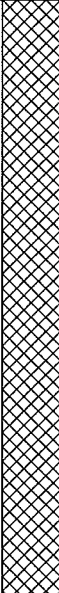


SLR GENERAL YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09



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BORING NUMBER SB-21

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		D&M	SB21-S5	15	8			MUNICIPAL SOLID WASTE. (continued) @ 12.5 feet: Soil/decomposable (90% by volume), paper, loose.
15.0								
		D&M	SB21-S6	80	7			@ 15 feet: Soil (35% by volume), paper, wood, plastic, glass, loose.
17.5								
		D&M	SB21-S7	50	13			@ 17.5 feet: Soil/decomposable (60% by volume), wood, plastic, metal, loose.
		D&M	SB21-19-19.4'	100	50/5"			19.0 ▽ 1044.8 WOOD WASTE , sludge, trace municipal solid waste, mostly decomposed, very dense, wet. 1044.3
20.0								
		D&M	SB21-S8	100	36	SP		GRAVELLY SAND , gray, fine- to coarse-grained, some fine to coarse gravel, few cobbles and silt, medium dense, wet.
								21.5 1042.3

Boring completed at 21.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

▽ Water level at time of drilling.



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BORING NUMBER SB-22

PAGE 1 OF 2

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/13/09 COMPLETED 2/13/09 GROUND ELEVATION 1058.85 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING 17.0 ft / Elev 1041.9 ft
 LOGGED BY C. Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
						GM		WOOD WASTE, some gravel. 1058.4
								SILTY GRAVEL, gray, fine to coarse, some silt, little fine- to coarse-grained sand, moist. 1057.1
2.5								MUNICIPAL SOLID WASTE, soil/decomposable (95% by volume), plastic, glass, moist, layers of gray silty sand with few coarse gravel, loose.
5.0		D&M	SB22-S1	66	4			
5.0		D&M	SB22-S2	20	4			
7.5								SANDY SILT, gray, fine-grained, trace municipal solid waste, trace cobbles, medium stiff to hard, moist. 1051.9
7.5		D&M	SB22-S3	33	10			
10.0						ML		@10.0 feet: No municipal solid waste.
10.0		D&M	SB22-S4	60	6			
12.5		D&M		90	8			@13 feet: Becomes wet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.

(Continued Next Page)

SLR SB LOG YAKIMA SOIL BORINGS.GPJ GINT US.GDT 4/13/09



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CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
15.0						ML		SANDY SILT, gray, fine-grained, trace municipal solid waste, trace cobbles, medium stiff to hard, moist. (continued)
		D&M		80	58			
17.5						GM		SANDY GRAVEL, gray, medium to coarse, some fine- to coarse-grained sand, few cobbles, dense, wet.
		D&M		80	43			
20.0								
		D&M		80	55			

17.0 ▽ 1041.9

20.5 1038.4

Boring completed at 20.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.




▽ Water level at time of drilling.



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BORING NUMBER SB-23

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/13/09 COMPLETED 2/13/09 GROUND ELEVATION 1059.30 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING 17.0 ft / Elev 1042.3 ft
 LOGGED BY C. Lee CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
2.5						SP		SAND, brown, fine-grained, some fine to medium gravel, loose, damp.
3.0								1056.3 MUNICIPAL SOLID WASTE, soil/decomposable (95% by volume), glass, plastic, paper, loose to very loose, moist.
5.0		D&M	SB23-S1	55	6			@ 5 feet: Soil/decomposable (65% by volume), plastic, glass, paper.
7.5		D&M	SB23-S2	50	4			
7.0								1052.3 SILTY SAND, gray, fine-grained, some fines, little fine gravel, loose, moist.
10.0		D&M	SB23-S3	100	14	SM		
12.5		D&M	SB23-S4	60	7			

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.

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BORING NUMBER SB-23

CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		D&M	SB23-S5	100	15	SM		SILTY SAND, gray, fine-grained, some fines, little fine gravel, loose, moist. (continued)
15.0								
		D&M	SB23-S6	100	33			SANDY GRAVEL, gray, fine to coarse, some medium- to coarse-grained sand, few cobbles, medium dense to dense, moist.
17.5								
		D&M	SB23-S7	60	88	GW		▽ @17.5 feet: increased cobbles, becomes wet.
20.0								
		D&M			51			

Boring completed at 20.5 feet.

1038.8

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

▽ Water level at time of drilling.










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BORING NUMBER SB-24

PAGE 1 OF 2

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/13/09 COMPLETED 2/13/09 GROUND ELEVATION 1058.79 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING Dry
 LOGGED BY C. Lee CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
						SP		SAND, dark brown, fine-grained, moist.
								1.5 WOOD WASTE, mixed with gray, fine-grained silty sand, little fine gravel, few cobbles, loose to medium dense, moist. 1057.3
2.5		D&M	SB24-S1	85	3			
5.0		D&M	SB24-S2	66	8			
								7.0 MUNICIPAL SOLID WASTE, soil/decomposable (40% by volume), wood, plastic, cloth/fiber, layers of brown, fine-grained sand with few cobbles, loose to medium dense, moist. 1051.8
7.5		D&M	SB24-S3	85	8			
10.0		D&M	SB24-S4	66	14			@ 10.0 feet: Plastic, paper, wood, soil/decomposable (10% by volume), loose, moist.
12.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

▽ Water level at time of drilling.

(Continued Next Page)

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BORING NUMBER SB-25

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/13/09 COMPLETED 2/13/09 GROUND ELEVATION 1058.01 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING Dry
 LOGGED BY C. Lee CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
						SP		SAND, brown, fine-grained, moist.
								1056.5
2.5								
		D&M	SB25-S1	15	8			
						SM		SILTY SAND, dark brown, fine-grained, some fines, little medium-grained gravel, little wood waste, loose to very loose, moist.
5.0								
		D&M	SB25-S2	10	5			
7.5								
		D&M	SB25-S3	15	8			
								MUNICIPAL SOLID WASTE, Fiber, plastic, glass, soil/decomposable (10% by volume), loose, moist.
10.0								
		D&M	SB24-S4	25	15			@ 10.0 feet: Fiber, paper, soil/decomposable (25% by volume), loose, moist.
12.5								
		D&M	SB25-S5		17			@ 12.5 feet: Fabric, soil/decomposable (25% by volume), medium dense, moist.

REMARKS
 SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.



▽ Water level at time of drilling.

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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
	X							MUNICIPAL SOLID WASTE , Fiber, plastic, glass, soil/decomposable (10% by volume), loose, moist. <i>(continued)</i>
15.0							14.5	1043.5
	X	D&M			50/5"	SW		GRAVELLY SAND , gray, fine to coarse, some fine- to coarse-grained gravel, very dense, moist.
							15.5	1042.5
Boring completed, refusal at 15.5 feet.								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.




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BORING NUMBER SB-26

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/13/09 COMPLETED 2/13/09 GROUND ELEVATION 1058.50 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING 14.5 ft / Elev 1044.0 ft
 LOGGED BY C. Lee CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
						SP		SAND, brown, fine-grained, little fine to medium gravel, moist.
								1.5 ----- 1057.0
2.5		D&M	SB26-S1	50	6	SM		SILTY SAND, gray, fine-grained, some fines, little fine to coarse gravel, trace municipal solid waste, loose, moist.
								4.5 ----- 1054.0
5.0		D&M	SB26-S2	50	6			MUNICIPAL SOLID WASTE, Soil (60% by volume), wood, plastic, loose, moist.
7.5		D&M	SB26-S3	75	8			@ 7.5 feet: Soil (50% by volume), wood, plastic, loose, moist.
10.0		D&M	SB26-S4	66	4			@ 10.0 feet: Soil (75% by volume), wood, plastic, moist.
12.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.

SLR GENERAL YAKIMA SOIL BORINGS.GPJ GINT U.S.GDT 3/20/09






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CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
	X	D&M	SB26-S5	33	10			MUNICIPAL SOLID WASTE , Soil (60% by volume), wood, plastic, loose, moist. (continued) @12.5 feet: Soil (50% by volume), paper, plastic, glass.
15.0								
	X	D&M	SB26-S6	100	50/5"			SANDY GRAVEL , gray, fine to coarse, some medium- to coarse-grained sand, little cobbles, very dense, wet.
17.5								
	X	D&M		0	50/4"			
						GW		

14.5 ▽

1044.0

18.5

1040.0

Boring completed, refusal at 18.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

▽ Water level at time of drilling.



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BORING NUMBER SB-27

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/17/09 COMPLETED 2/17/09 GROUND ELEVATION 1063.45 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING Dry
 LOGGED BY C. Lee CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
2.5								WOOD WASTE, few fine gravel, very dense.
	X	D&M	SB27-S1	100	50/5"			
5.0								MUNICIPAL SOLID WASTE, Soil/decomposable (90% by volume), plastic, glass, wood, paper, medium dense to very loose, moist.
	X	D&M	SB27-S2	80	21			
7.5								@ 7.5 feet: Wood, soil/decomposable (30% by volume), paper, plastic, glass, moist.
	X	D&M	SB27-S3	50	33			
10.0								@ 10.0 feet: Paper, soil/decomposable (40% by volume), plastic, glass, loose, moist.
	X	D&M	SB27-S4	66	10			
12.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

☑ Water level at time of drilling.

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BORING NUMBER SB-27

CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
	X	D&M	SB27-S5	100	4			@ 12.5 feet: Plastic, glass, very loose.
								1050.5
						SM		SILTY SAND , gray, fine-grained, some fines, some bark, very loose to very dense, wet.
15.0	X	D&M	SB27-S6	100	50/5"			
								1046.5
						GW		SANDY GRAVEL , fine to coarse, some fine- to medium-grained sand, very dense, moist.
17.5	X	D&M	SB27-S7	66	50/6"			
								1043.0
20.0	X	D&M		0	50/6"			
								20.5

Boring completed at 20.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/18/09 COMPLETED 2/18/09 GROUND ELEVATION 1060.00 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger ∇ AT TIME OF DRILLING 13.5 ft / Elev 1046.5 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
2.5								WOOD WASTE, bark mulch, some fine to coarse gravel, dry to damp.
3.0								1057.0
5.0		D&M		70	19			SILTY GRAVEL, dark gray, fine to coarse, some silt, little fine- to coarse-grained sand, medium dense, moist, odor.
5.5						GW-GM		1054.5
7.5		D&M		66	10			MUNICIPAL SOLID WASTE, Wood, paper, glass, loose to dense.
7.5								@ 7.5 feet: Wood, paper, soil/decomposable (10% by volume), medium dense.
10.0		D&M		40	16			@ 10.0 feet: Cobble caught in sampler, trace municipal solid waste in sampler, dense.
12.5		D&M		30	50			1048.0
12.5								SANDY GRAVEL, olive gray, fine to coarse, well-rounded to flattened, some fine- to coarse-grained sand, medium dense, moist to wet.
12.5						GP		∇

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.

SLR SB LOG YAKIMA SOIL BORINGS.GPJ GINT US.GDT 4/13/09



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BORING NUMBER SB-28


PAGE 2 OF 2

CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington


DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
	X					GP		14.0

1046.0

Boring completed at 14.0 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

 Water level at time of drilling.



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BORING NUMBER SB-29

PAGE 1 OF 2

CLIENT <u>City of Yakima</u>	PROJECT NAME <u>Former City of Yakima Landfill</u>
PROJECT NUMBER <u>001.0221.00004</u>	PROJECT LOCATION <u>Yakima, Washington</u>
DATE STARTED <u>2/19/09</u> COMPLETED <u>2/19/09</u>	GROUND ELEVATION <u>1068.95 ft</u> HOLE SIZE <u>8.5" Diameter</u>
DRILLING CONTRACTOR <u>Cascade Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	AT TIME OF DRILLING <u>Dry</u>
LOGGED BY <u>B. Robinson</u> CHECKED BY _____	AT END OF ---
NOTES _____	AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
2.5								WOOD WASTE , bark mulch and wood fragments, trace fine to medium gravel, loose to medium dense, moist.
5.0		D&M	SB29-S1	100	14			
7.5		D&M	SB29-S2	85	21			
7.0								1062.0 MUNICIPAL SOLID WASTE , gravel, paper, plastic.
8.0		D&M		80	22			1061.0 WOOD WASTE , bark and sawdust, medium dense, moist.
10.0		D&M		5	26			@ 10.0 feet: Plastic caught in sampler.
12.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.

(Continued Next Page)

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CLIENT City of Yakima **PROJECT NAME** Former City of Yakima Landfill
PROJECT NUMBER 001.0221.00004 **PROJECT LOCATION** Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		D&M	SB29-S3	60	23			WOOD WASTE , bark and sawdust, medium dense, moist. <i>(continued)</i>
15.0								
		D&M	SB29-S4	60	16			
17.5								
		D&M		33	34			
20.0								
		D&M	SB29-S5	66	31			
						SM		
								21.0 1048.0
								21.5 1047.5

Boring completed at 21.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.

SLR GENERAL YAKIMA SOIL BORINGS.GPJ GINT US_GDT 3/20/09



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CLIENT <u>City of Yakima</u>	PROJECT NAME <u>Former City of Yakima Landfill</u>
PROJECT NUMBER <u>001.0221.00004</u>	PROJECT LOCATION <u>Yakima, Washington</u>
DATE STARTED <u>2/19/09</u> COMPLETED <u>2/19/09</u>	GROUND ELEVATION <u>1066.98 ft</u> HOLE SIZE <u>8.5" Diameter</u>
DRILLING CONTRACTOR <u>Cascade Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	AT TIME OF DRILLING <u>Dry</u>
LOGGED BY <u>B. Robinson</u> CHECKED BY _____	AT END OF _____
NOTES _____	AFTER DRILLING <u>---</u>

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
2.5								WOOD WASTE , mulch and woodchips, some sand, some fine to medium gravel, medium dense, dry to damp.
5.0		D&M	SB30-S1	90	17			
7.5								
8.0		D&M		80	12			MUNICIPAL SOLID WASTE , olive gray silty sand, plastic, paper, loose. 1059.0
9.5								WOOD WASTE , loose to medium dense. 1057.5
10.0		D&M						
12.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.

SLR GENERAL YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09



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CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		D&M	SB30-S3	66	9			WOOD WASTE, loose to medium dense. (continued)
15.0								
		D&M		50	40			@ 16.0 feet: 4" piece of wood in sampler.
17.5								
		D&M		30	16			
20.0								
		D&M	SB30-S4	100	12	ML		20.5 1046.5 SANDY SILT, olive brown to olive gray, some fine- to medium-grained sand, trace gravel, stiff, moist.
								21.5 1045.5

Boring completed at 21.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.

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BORING NUMBER SB-31

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/19/09 COMPLETED 2/19/09 GROUND ELEVATION 1063.77 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
2.5						GM		SILTY GRAVEL, dark brown, fine to coarse, angular to rounded, little fine- to coarse-grained sand, little wood waste, dense, moist. From 2.0 to 2.5 feet: Wet.
3.5								WOOD WASTE. 1060.3
4.5								SILTY GRAVEL, olive gray, fine to coarse, rounded, trace glass, very dense to medium dense. 1059.3
5.0		D&M	SB31-S1	100	43			
7.5						GM		
8.5								MUNICIPAL SOLID WASTE, medium dense. 1055.3
10.0								
12.5								@ 12.0 feet: Becomes wet. @ 12.5 feet: Wood, paper, silty sand (25% by volume), plastic, medium dense, wet, seen on sample.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.




∇ Water level at time of drilling.

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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
	X							MUNICIPAL SOLID WASTE, medium dense. (continued)
15.0								SILTY SAND, grayish brown, fine-grained, some fines, moist, layers of bark.
	X	D&M	SB31-S2	100	7	SM		
17.5	X	D&M			50/5"			@ 17.5 feet: Broken cobble in sampler, no recovery.
								

Boring completed at 18.0 feet. 1045.8

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

▽ Water level at time of drilling.

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BORING NUMBER SB-32

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/19/09 COMPLETED 2/19/09 GROUND ELEVATION 1062.60 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								WOOD WASTE, little gravel, moist.
2.5								
		D&M	SB32-S1	100	36	GM		3.0 1059.6 3.5 1059.1 SILTY GRAVEL, olive gray, fine to coarse, rounded, some fines, little sand, medium dense, damp. MUNICIPAL SOLID WASTE, paper and decomposables (70% by volume), some silty sand, loose to medium dense.
5.0		D&M	SB32-S2	66	8			@ 5.0 feet: Soil/decomposable (95% by volume), metal, glass, loose.
7.5		D&M		10	28			@ 7.5 feet: Wood in sampler shoe, no recovery, medium dense.
10.0		D&M		5	16			@ 10.0 feet: Cobble in sampler, no recovery, medium dense.
12.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.

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CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
	X	D&M		0	50/5"			MUNICIPAL SOLID WASTE , paper and decomposables (70% by volume), some silty sand, loose to medium dense. <i>(continued)</i> @ 12.5 feet: Wood fragment in sampler, no recovery, very dense.
15.0								
	X	D&M	SB32-S3	10	78			@ 15.0 feet: Soil/decomposable (50% by volume), wood, paper, very dense.
17.5								
	X	D&M		30	61	GW		SANDY GRAVEL , olive gray, fine to coarse, some fine- to coarse-grained sand, very dense, damp.

Boring completed at 19.0 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.



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BORING NUMBER SB-33

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/19/09 COMPLETED 2/19/09 GROUND ELEVATION 1063.90 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING ---
 LOGGED BY B. Robinson CHECKED BY --- AT END OF ---
 NOTES --- AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								WOOD WASTE, bark, wood mulch, some fine to coarse gravel, medium dense, moist.
2.5		D&M	SB33-S1	100	16			
5.0		D&M	SB33-S2	80	50/5"			
7.5		D&M		20	36	GP-GM		SILTY GRAVEL, olive gray, well-rounded, little cobbles, little silt, dense to medium dense, moist.
10.0		D&M	SB33-S3	40	4			MUNICIPAL SOLID WASTE, Soil (60% by volume), wood, paper, metal, plastic, loose to medium dense.
12.5		D&M	SB33-S4	33	7			@ 12.5 feet: Soil (50% by volume), paper, metal, plastic, rubber.

REMARKS
 SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
15.0								MUNICIPAL SOLID WASTE , Soil (60% by volume), wood, paper, metal, plastic, loose to medium dense. <i>(continued)</i>
		D&M	SB33-S5	33	33			@ 15.0 feet: Soil/decomposable (90% by volume), glass, plastic.
17.5								@ 17.5 feet: Tire caught in sampler, no recovery.
		D&M		5	23			
20.0								SANDY GRAVEL observed on sampler, no recovery.
		D&M		0	63	GW		@ 20.0 feet: Very difficult drilling.
								Boring completed at 21.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

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BORING NUMBER SB-34

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/20/09 COMPLETED 2/20/09 GROUND ELEVATION 1061.41 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING 18.0 ft / Elev 1043.4 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
2.5								WOOD WASTE, wood chips, mulch, some fine to medium gravel.
3.0								1058.4
3.0		D&M	SB34-S1	100	50	GW-GM		SILTY GRAVEL, olive brown, fine to coarse, well-rounded, some fines, little fine-to coarse-grained sand, dense.
5.0								
5.5		D&M		80	31			1055.9
6.0								WOOD WASTE, mulch.
6.0						GM		1055.4
6.0								SILTY GRAVEL, olive gray, angular to rounded, some fines, little sand, dense, damp.
7.5								
7.5		D&M		40	9			1054.4
7.5								MUNICIPAL SOLID WASTE, Soil/decomposable (95% by volume), glass, plastic, loose to very dense, moist.
10.0								
10.0		D&M	SB31-S2	55	19			@ 10.0 feet: Soil/decomposable (50% by volume), bricks, metal, plastic, medium dense.
12.5								
12.5		D&M		50	50/6"			@ 12.5 feet: Soil/decomposable (90% by volume), glass.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.

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BORING NUMBER SB-34

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
15.0								MUNICIPAL SOLID WASTE, Soil/decomposable (95% by volume), glass, plastic, loose to very dense, moist. (continued)
	X	D&M		0	19			
17.5								@ 17.5 feet: Metal and large cobble caught in sampler, limited recovery. 1043.4
	X	D&M		20	50/6"			
20.0								SANDY GRAVEL, olive gray, fine to coarse, some fine- to coarse-grained sand, few cobbles, dense, wet. 1039.9
	X	D&M		20	39	GW		
								Boring completed at 21.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

▽ Water level at time of drilling.

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BORING NUMBER SB-35

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/20/09 COMPLETED 2/20/09 GROUND ELEVATION 1060.03 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger ∇ AT TIME OF DRILLING 18.0 ft / Elev 1042.0 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								WOOD WASTE, mulch, wood chips and bark, trace gravel.
2.5								
	X	D&M	SB35-S1	90	15			
5.0								
	X	D&M		10	50/5"			@ 5.5 feet: Broken cobble in sampler, limited recovery.
6.5						GM		1053.5 SILTY GRAVEL, based on cuttings.
7.0								1053.0 MUNICIPAL SOLID WASTE, Soil/decomposable (90% by volume), glass, plastic, moist, medium dense to loose.
7.5								
	X	D&M		15	58			
10.0								@ 10.0 feet: No recovery.
	X	D&M		0	23			
12.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.



∇ Water level at time of drilling.

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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		D&M	SB35-S2	66	6			MUNICIPAL SOLID WASTE , Soil/decomposable (90% by volume), glass, plastic, moist, medium dense to loose. <i>(continued)</i> @ 12.5 feet: Soil/decomposable (90% by volume), paper, plastic, glass, moist.
15.0								
		D&M		20	10			@ 15 feet: Soil/decomposable (80% by volume), paper, wood, plastic, metal, glass, moist.
17.5								
		D&M	SB35-S3	80	38			
								18.0 ▽ 1042.0
20.0								
		D&M		50	27	GW		SANDY GRAVEL , olive gray, fine to coarse, rounded, some fine- to coarse-grained sand, trace silt, medium dense, wet.
								21.5 1038.5

Boring completed at 21.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

▽ Water level at time of drilling.

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BORING NUMBER SB-36

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/20/09 COMPLETED 2/20/09 GROUND ELEVATION 1059.20 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING ---
 LOGGED BY B. Robinson CHECKED BY --- AT END OF ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								WOOD WASTE, some silt, some sand, loose, moist.
2.5		D&M		90	8			
5.0		D&M	SB36-S1	100	20			
6.0						ML		SANDY SILT, olive gray, some fine-grained sand, stiff, damp. 1053.2
7.5		D&M	SB36-S2	30	8			MUNICIPAL SOLID WASTE, Soil/decomposable (90% by volume), glass, plastic, loose to medium dense. 1052.2
10.0		D&M		0	4			@ 10.0 feet: No recovery.
12.5		D&M		5	6			@ 12.5 feet: Soil/decomposable (100% by volume), loose.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

SLR SB LOG YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/25/09



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
15.0								MUNICIPAL SOLID WASTE, Soil/decomposable (90% by volume), glass, plastic, loose to medium dense. (continued)
		D&M	SB36-S3	30	19			@ 15.0 feet: Soil/decomposable (100% by volume), medium dense.
17.5								
		D&M		20	50/5"	SM		SILTY SAND, olive gray, fine-grained, some fines, little wood, very dense, moist.

Boring completed, refusal at 18.0 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

SLR SB LOG YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/25/09



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BORING NUMBER SB-37

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/20/09 COMPLETED 2/20/09 GROUND ELEVATION 1063.93 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
2.5								WOOD WASTE, wood mulch and bark, some fine- to coarse-grained sand, some fine to coarse gravel, medium dense.
5.0		D&M	SB37-S1	100	21			
5.5						ML		1058.4 SANDY SILT, olive gray, some fine- to coarse-grained sand, little fine to coarse gravel, few wood and bark, stiff, moist.
7.0								1056.9 MUNICIPAL SOLID WASTE, soil/decomposable (80% by volume), gravel, glass, plastic, medium dense, moist.
7.5		D&M		20	18			
10.0		D&M		0	19			@ 10.0 feet: No recovery.
12.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.

SLR GENERAL YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09






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BORING NUMBER SB-37

PAGE 2 OF 2

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		D&M	SB37-S3	30	19			MUNICIPAL SOLID WASTE , soil/decomposable (80% by volume), gravel, glass, plastic, medium dense, moist. <i>(continued)</i> @12.5 feet: soil/decomposable (50% by volume), paper, metal, glass, medium dense, moist.
14.5								1049.4
15.0		D&M	SB37-S4	100	5	ML		SANDY SILT , olive gray, some fine- to coarse-grained sand, few wood, soft, moist.
17.0								1046.9
17.5		D&M		100	50/5"			SANDY GRAVEL , olive gray, fine to coarse, some fine- to coarse-grained sand, few cobbles, well rounded, very dense, moist.
20.0		D&M		50	50/5"			1043.4
Boring completed at 20.5 feet.								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.

SLR GENERAL YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09



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BORING NUMBER SB-38

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/20/09 COMPLETED 2/20/09 GROUND ELEVATION 1062.63 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING 19.0 ft / Elev 1043.6 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								
2.5								WOOD WASTE , woodchips and bark mulch, some sand and gravel, loose to medium dense, moist.
5.0		D&M		100	13			
6.0								GRAVELLY SILT , olive gray, fine to medium gravel, angular to rounded, little sand, hard, moist. 1056.6
7.5		D&M		33	43			
9.0						ML		
10.0		D&M		20	50/0"			MUNICIPAL SOLID WASTE silty gravel, plastic, tires, metal, soil/decomposable (<5% by volume), loose, moist. 1053.6
12.5		D&M		60	6			

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.

SLR GENERAL YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09



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CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		D&M	SB38-S1	80	8			MUNICIPAL SOLID WASTE silty gravel, plastic, tires, metal, soil/decomposable (<5% by volume), loose, moist. <i>(continued)</i> @ 12.5 feet: soil/decomposable (80% by volume), plastic, metal, moist.
15.0		D&M		10	8			
17.5		D&M	SB38-S2	50	42			SANDY GRAVEL , olive gray, fine to coarse, some fine- to coarse-grained sand, very dense, moist to wet, cobbles.
						GW		@ 18.5 feet: Becomes wet.
20.0		D&M			14			

17.0 ----- 1045.6

21.5 ----- 1041.1

Boring completed at 21.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.



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BORING NUMBER SB-39

PAGE 1 OF 2

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/23/09 COMPLETED 2/23/09 GROUND ELEVATION 1061.64 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING 19.5 ft / Elev 1042.1 ft
 LOGGED BY C. Lee CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								WOOD WASTE, trace fine gravel, very dense.
2.5								
		D&M	SB39-S1	100	50/6"			
5.0								
		D&M	SB39-S2	50	14	ML		
7.5								
		D&M		0	10			
10.0								
		D&M	SB39-S3	10	4			
12.5								

4.5 ----- 1057.1

7.0 ----- 1054.6

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

Water level at time of drilling.

SLR GENERAL YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09



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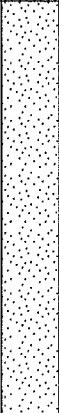
BORING NUMBER SB-39

CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		D&M	SB39-S4	10	13			MUNICIPAL SOLID WASTE , very loose to loose. <i>(continued)</i> @ 12.5 feet: Soil/decomposable (40% by volume), wood, plastic, loose.
15.0								
		D&M		0	15			@ 15 feet: No recovery, waste in cuttings.
17.5								
		D&M	SB39-S5	50	81			GRAVELLY SAND , gray, fine- to medium-grained, some fine to medium gravel, little fractured cobbles, moist.
20.0								
		D&M		60	62	SP		▽ @ 19.5 feet: Becomes wet.

Boring completed at 21.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

▽ Water level at time of drilling.



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BORING NUMBER SB-40

CLIENT <u>City of Yakima</u>	PROJECT NAME <u>Former City of Yakima Landfill</u>
PROJECT NUMBER <u>001.0221.00004</u>	PROJECT LOCATION <u>Yakima, Washington</u>
DATE STARTED <u>2/23/09</u> COMPLETED <u>2/23/09</u>	GROUND ELEVATION <u>1060.15 ft</u> HOLE SIZE <u>8.5" Diameter</u>
DRILLING CONTRACTOR <u>Cascade Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	<u>∇ AT TIME OF DRILLING</u> <u>19.5 ft / Elev 1040.7 ft</u>
LOGGED BY <u>C. Lee</u> CHECKED BY _____	<u>AT END OF</u> <u>---</u>
NOTES _____	<u>AFTER DRILLING</u> <u>---</u>

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								WOOD WASTE, trace fine gravel, moist.
2.5								
		D&M	SB40-S1	80	49			
						ML		GRAVELLY SILT, gray, some fine gravel, few cobbles, little fine to medium sand, hard, moist. 1056.7
								MUNICIPAL SOLID WASTE, very dense to loose. 1055.7
5.0		D&M		0	50/4"			@ 5.0 feet: No recovery, waste in cuttings.
7.5		D&M		0	50/5"			@ 7.5 feet: No recovery, waste in cuttings, steel can blocking sampler.
10.0		D&M	SB40-S2	10	13			@ 10.0 feet: Metal, wood, soil/decomposable (20% by volume), loose.
12.5								

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.

SLR GENERAL YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09






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CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
		D&M	SB40-S3	33	8			MUNICIPAL SOLID WASTE , very dense to loose. <i>(continued)</i> @ 12.5 feet: Wood, soil/decomposable (40% by volume), plastic, glass, loose.
15.0								
		D&M	SB40-S4	50	9	ML		SANDY SILT , gray, some fine-grained sand, medium stiff, moist.
17.5								
		D&M	SB40-S5	100	27			SANDY GRAVEL , gray, fine to medium, some fine to medium sand, little silt, medium dense, moist.
20.0								
		D&M		70	24	GW		▽ @ 19.5 feet: Becomes wet.
21.5								

Boring completed at 21.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

▽ Water level at time of drilling.



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BORING NUMBER SB-41

PAGE 1 OF 2

CLIENT <u>City of Yakima</u>	PROJECT NAME <u>Former City of Yakima Landfill</u>
PROJECT NUMBER <u>001.0221.00004</u>	PROJECT LOCATION <u>Yakima, Washington</u>
DATE STARTED <u>2/23/09</u> COMPLETED <u>2/23/09</u>	GROUND ELEVATION <u>1064.60 ft</u> HOLE SIZE <u>8.5" Diameter</u>
DRILLING CONTRACTOR <u>Cascade Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	AT TIME OF DRILLING <u>Dry</u>
LOGGED BY <u>C. Lee</u> CHECKED BY _____	AT END OF <u>---</u>
NOTES _____	AFTER DRILLING <u>---</u>

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
0.0								WOOD WASTE.
1.5								1063.1 SILTY SAND, gray, fine-grained, some fines, little fine gravel, medium dense, moist.
2.5						SM		
5.0		D&M	SB41-S1	66	20			
7.5								1057.6 MUNICIPAL SOLID WASTE, medium dense to loose. @ 7.5 feet: No recovery, waste in cuttings.
10.0		D&M		0	13			@ 10.0 feet: No recovery, waste in cuttings, gas venting from auger stem.
12.5		D&M		0	17			

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.





(Continued Next Page)

SLR GENERAL YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION
12.5								
	X	D&M	SB41-S3	20	6			MUNICIPAL SOLID WASTE , medium dense to loose. <i>(continued)</i> @ 12.5 feet: soil/decomposable (40% by volume), wood, plastic, loose.
15.0								
	X	D&M		0	13			
17.5								
	X	D&M		0	15			@ 17.5 feet: No recovery, drilling action indicated municipal solid waste, loose.
20.0								
	X	D&M	SB41-S4	30	55	SM		SILTY SAND , gray, fine-grained, some fines, little fine to medium gravel, dense, moist.

Boring completed at 21.5 feet.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/16/09 COMPLETED 2/16/09 GROUND ELEVATION 1063.19 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger ∇ AT TIME OF DRILLING 15.5 ft / Elev 1047.7 ft
 LOGGED BY C. Lee CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0								WOOD WASTE medium dense.	
2.5		D&M	MW11-S1	100	29				Concrete
5.0		D&M	MW11-S2	100	50/4"			@ 4.5 feet: Some gray silt, few fine gravel.	Hydrated bentonite chips
7.5		D&M		0	24				2"-diameter Sch. 40 PVC blank riser
10.0		D&M		0	43				16x30 Colorado silica sand pack
12.5		D&M	MW11-S3	30	25			@ 12.0 feet: Driller comment - drilled through a log. @ 12.5 feet: Some gray fine-grained sand.	

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.
 * = Soil sample submitted for chemical or geotechnical analysis.

∇ Water level at time of drilling.

SLR MW LOG YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09



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CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
15.0	X							WOOD WASTE medium dense. (continued)	
17.5	X	D&M	MW11-S4	100	50/4"			GRAVELLY SAND, gray, fine- to medium-grained, some fine to medium gravel, some fractured cobbles up to 3"-diameter, very dense, moist to wet.	
20.0	X	D&M	MW11-S5	100	50/5"	SP		@ 19.0 feet: Sand becomes fine-grained.	
	X	D&M			66				2"-diameter Sch. 40 PVC 0.020"-slotted screen
									End cap

Boring completed at 22.0 feet.

WELL COMPLETION DETAILS:

- +2.8 to 0 feet: 2"-diameter Sch. 40 PVC blank riser encased in an 8"-diameter protective steel monument set in concrete with three protective concrete-filled steel bollards.
- 0 to 6 feet: 2"-diameter Sch. 40 PVC blank riser.
- 6 to 20.8 feet: 2"-diameter Sch. 40 PVC 0.020"-slotted screen.
- 20.8 to 21.1 feet: 2"-diameter Sch. 40 PVC end cap.
- 0 to 2 feet: Concrete.
- 2 to 4 feet: Hydrated bentonite chips.
- 4 to 22 feet: 16x30 Colorado silica sand.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.
* = Soil sample submitted for chemical or geotechnical analysis.

∇ Water level at time of drilling.

SLR MW LOG YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09



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WELL NUMBER MW-12

PAGE 1 OF 2

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/16/09 COMPLETED 2/16/09 GROUND ELEVATION 1065.73 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger ∇ AT TIME OF DRILLING 12.5 ft / Elev 1053.2 ft
 LOGGED BY C. Lee CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0									
2.5								SAND, brownish gray, fine-grained, loose to very dense, moist to wet.	Concrete
	X	D&M	MW12-S1	60	13				Hydrated bentonite chips
5.0								@ 4.5 feet: Becomes gravelly, medium to coarse, few cobbles, little silt, very dense.	2"-diameter Sch. 40 PVC blank riser
	X	D&M	MW12-S2	100	50/6"				
7.5						SP			
	X	D&M	MW12-S3	100	50/5"				
10.0									16x30 Colorado silica sand pack
	X	D&M	MW12-S4	66	57				
12.5								∇ @ 12.5 feet: Becomes wet.	
	X	D&M		0	26				

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.
 * = Soil sample submitted for chemical or geotechnical analysis.

∇ Water level at time of drilling.

(Continued Next Page)

SLR MW LOG YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/20/09



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CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
15.0						SP		SAND , brownish gray, fine-grained, loose to very dense, moist to wet. (<i>continued</i>) @ 14.0 feet: Becomes gray, fine-grained with no gravel, medium dense wet.	
16.0	D&M MW12-S5*		80	16			SANDY GRAVEL brown, fine to coarse, rounded, some fine- to medium-grained sand, some cobbles, few fines, medium dense, wet. @ 17.0 feet: Gravel becomes fine.		
17.5						GP			
20.0	D&M MW12-S6		50	38			@ 19.5 feet: Gravel becomes fine to medium.		
22.0	D&M MW12-S7		66	35					

Boring completed at 22.0 feet.

WELL COMPLETION DETAILS:

+2.8 to 0 feet: 2"-diameter Sch. 40 PVC blank riser encased in an 8"-diameter protective steel monument set in concrete with three protective concrete-filled steel bollards.
0 to 6.2 feet: 2"-diameter Sch. 40 PVC blank riser.
6.2 to 21 feet: 2"-diameter Sch. 40 PVC 0.020"-slotted screen.
21 to 21.2 feet: 2"-diameter Sch. 40 PVC end cap.

0 to 2 feet: Concrete.
2 to 4 feet: Hydrated bentonite chips.
4 to 22 feet: 16x30 Colorado silica sand.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.
* = Soil sample submitted for chemical or geotechnical analysis.

∇ Water level at time of drilling.

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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/17/09 COMPLETED 2/17/09 GROUND ELEVATION 1063.56 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger ∇ AT TIME OF DRILLING 7.5 ft / Elev 1056.1 ft
 LOGGED BY C. Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0.0									
2.5		D&M	MW13-S1	33	26		SP	<p>SAND, brown, fine-grained, little fine to coarse gravel, medium dense, damp to wet.</p> <p>@ 4.0 feet: Gravel becomes predominantly fine, few cobbles up to 3"-diameter, becomes moist.</p> <p>∇ @ 7.0 feet: Cobbles increase to some, becomes wet.</p> <p>@ 9.5 feet: Gravel increases to some and becomes medium to coarse, trace silt, wet.</p>	<p>Concrete</p> <p>Hydrated bentonite chips</p> <p>2"-diameter Sch. 40 PVC blank riser</p> <p>16x30 Colorado silica sand pack</p>
5.0		D&M	MW13-S2		18				
7.5		D&M	MW13-S3	30	14				
10.0		D&M	MW13-S4	50	13				
12.5		D&M	MW13-S5	80	14				
							13.5	1050.1	

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.
 * = Soil sample submitted for chemical or geotechnical analysis.

∇ Water level at time of drilling.

SLR MW LOG YAKIMA SOIL BORINGS.GPJ GINT US.GDT 4/13/09



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CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
						CL		ORGANIC SOIL , dark brown, high-plasticity, stiff, wet, little wood bark.	<p>2"-diameter Sch. 40 PVC 0.020"-slotted screen</p> <p>End cap</p>
15.0							14.5 1049.1 SILTY SAND , brownish gray, fine-grained, little silt, loose to medium dense, wet, little to some wood bark.		
17.5	D&M MW13-S6*		100	8	SP-SM		@ 17.0 feet: Becomes dark brown, some silt, little fine to coarse gravel, medium dense, wet, trace wood bark.		
20.0	D&M MW13-S7*		80	35			19.5 1044.1 SAND , brown, fine- to medium-grained, some gravel, some cobbles, dense, wet.		
21.5	D&M MW13-S8		66	51	SP		1042.1		

Boring complete at 21.5 feet.

WELL COMPLETION DETAILS:

- +2.6 to 0 feet: 2"-diameter Sch. 40 PVC blank riser encased in an 8"-diameter protective steel monument set in concrete with three protective concrete-filled steel bollards.
- 0 to 6.2 feet: 2"-diameter Sch. 40 PVC blank riser.
- 6.2 to 21 feet: 2"-diameter Sch. 40 PVC 0.020"-slotted screen.
- 21 to 21.3 feet: 2"-diameter Sch. 40 PVC end cap.
- 0 to 2 feet: Concrete.
- 2 to 4 feet: Hydrated bentonite chips.
- 4 to 21.5 feet: 16x30 Colorado silica sand.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.
 * = Soil sample submitted for chemical or geotechnical analysis.

Water level at time of drilling.

SLR MW LOG YAKIMA SOIL BORINGS GP.J GINT US.GDT 4/13/09



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/17/09 COMPLETED 2/17/09 GROUND ELEVATION 1063.52 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger ∇ AT TIME OF DRILLING 7.5 ft / Elev 1056.0 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
0.0									
2.5								SILTY GRAVEL, dark gray, fine to coarse, some fines, little sand, rounded, moist, some wood waste.	<p>Concrete Hydrated bentonite chips 1"-diameter Sch. 40 PVC blank riser 2x12 Colorado silica sand pack 1"-diameter Sch. 40 PVC 0.020"-slotted screen End cap</p>
5.0							2.0 to 8.0 feet: No wood waste.		
7.5		D&M		15	21		5.0 to 8.0 feet: Little fine- to coarse-grained medium-dense sand.		
8.0		D&M		0	13			∇ @ 7.5 feet: Becomes wet.	1055.5

Boring completed at 8.0 feet.

SOIL VAPOR PROBE COMPLETION DETAILS:

- +3.3 to 0 feet: 1"-diameter Sch. 40 PVC blank riser encased in an 8"-diameter protective steel monument set in concrete with three protective concrete-filled steel bollards.
- 0 to 4 feet: 1"-diameter Sch. 40 PVC blank riser.
- 4 to 7.8 feet: 1"-diameter Sch. 40 PVC 0.020"-slotted screen.
- 7.8 to 7.9 feet: 1"-diameter Sch. 40 PVC end cap.
- 0 to 2 feet: Concrete.
- 2 to 3.5 feet: Hydrated bentonite chips.
- 3.5 to 8 feet: 2x12 Colorado silica sand.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.

SLR GP LOG YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/25/09



22122 20th Avenue SE
 Bothell, Washington 98021
 Telephone: 425.402.8800
 SLR International Corp Fax: 425.402.8488

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/17/09 COMPLETED 2/17/09 GROUND ELEVATION 1063.51 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING 17.0 ft / Elev 1046.5 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
0.0									
2.5						SM		SILTY SAND, dark brown, some silt, little fine to medium well-rounded gravel, moist, organic, wood waste.	Concrete
	D&M			60	21			@ 3.0 feet: Becomes light olive brown, fine-grained, medium-dense sand, no gravel.	Hydrated bentonite chips
4.5									1059.0
5.0						ML		SANDY SILT, olive gray, some fine-grained sand, trace organics, 1/2" lenses of brown organics, stiff.	
	D&M		GP5-S1	100	11			@ 7.0 feet: Becomes moist to wet and grades to SILTY SAND.	1"-diameter Sch. 40 PVC blank riser
7.5									1055.5
	D&M		GP5-S2	80	39			SANDY GRAVEL, olive gray, fine to coarse, rounded to well-rounded, some medium- to coarse-grained sand, dense, damp.	2x12 Colorado silica sand pack
8.0									
	D&M		GP5-S3	45	53	GW		@ 12.5 feet: Broken cobble in sampler, no recovery.	1"-diameter Sch. 40 PVC
10.0									
	D&M			20	50/6"				
12.5									

REMARKS
 SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.
 Water level at time of drilling.

SLR GP LOG YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/25/09



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
15.0						GW		SANDY GRAVEL, olive gray, fine to coarse, rounded to well-rounded, some medium- to coarse-grained sand, dense, damp. (continued)	
		D&M	GP5-S4	90	11	SP		SAND, olive gray, medium-grained, trace coarse-grained sand, trace fine gravel, loose, moist.	
17.5						GW		SANDY GRAVEL, light olive brown, fine to coarse, well-rounded, some fine- to coarse-grained sand, very dense, moist. @ 17.0 feet: Becomes wet. @ 17.5 feet: Broken cobble in sampler, no recovery.	
		D&M		90	50/6"				1045.5

Boring completed at 18.0 feet.

SOIL VAPOR PROBE COMPLETION DETAILS:

- +3.1 to 0 feet: 1"-diameter Sch. 40 PVC blank riser encased in an 8"-diameter protective steel monument set in concrete with three protective concrete-filled steel bollards.
- 0 to 9.7 feet: 1"-diameter Sch. 40 PVC blank riser.
- 9.7 to 14.2 feet: 1"-diameter Sch. 40 PVC 0.020"-slotted screen.
- 14.2 to 14.5 feet: 1"-diameter Sch. 40 PVC end cap.

- 0 to 2 feet: Concrete.
- 2 to 9 feet: Hydrated bentonite chips.
- 9 to 18 feet: 2x12 Colorado silica sand.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/13/09 COMPLETED 2/18/09 GROUND ELEVATION 1058.30 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger ∇ AT TIME OF DRILLING 13.0 ft / Elev 1045.3 ft
 LOGGED BY C. Lee CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
0.0									
0.5								WOOD WASTE.	
0.5								1057.8	
2.5		D&M	GP6-S1	33	6			SAND, brown, fine-grained, little fine gravel, loose, damp.	Concrete
2.5		D&M	GP6-S2	33	9				Hydrated bentonite chips
5.0		D&M	GP6-S3	25	6	SP		@ 4.5 feet: Gravel becomes fine to medium, few cobbles up to 2"-diameter.	1"-diameter Sch. 40 PVC blank riser
5.0		D&M	GP6-S4	33	11				
6.0								1052.3	
6.0		D&M	GP6-S5	70	7			SILTY SAND, dark brown, fine-grained, moist, loose, some wood.	
7.5		D&M	GP6-S6	100	8	SM			2x12 Colorado silica sand pack
10.0		D&M	GP6-S7	100	31			9.5	1048.8
10.0		D&M	GP6-S8	50	37	SP		SAND, gray, fine-grained, medium-dense, moist.	1"-diameter Sch. 40 PVC 0.020"-slotted screen
12.5								@ 11.0 feet: Becomes medium- to coarse-grained sand, some fine to coarse gravel, few cobbles up to 3"-diameter.	End cap
								∇ @ 13.0 feet: Becomes wet, broken cobble in sampler,	Hydrated bentonite chips

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.

SLR GP LOG YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/25/09



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
						SP		no recovery. SAND, gray, fine-grained, medium-dense, moist. (continued)	

14.0 1044.3 Native slough
 Boring completed at 14.0 feet.

SOIL VAPOR PROBE COMPLETION DETAILS:

- +3.1 to 0 feet: 1"-diameter Sch. 40 PVC blank riser encased in an 8"-diameter protective steel monument set in concrete with three protective concrete-filled steel bollards.
- 0 to 6.8 feet: 1"-diameter Sch. 40 PVC blank riser.
- 6.8 to 11.6 feet: 1"-diameter Sch. 40 PVC 0.020"-slotted screen.
- 11.6 to 11.9 feet: 1"-diameter Sch. 40 PVC end cap.
- 0 to 2 feet: Concrete.
- 2 to 5.5 feet: Hydrated bentonite chips.
- 5.5 to 12.5 feet: 2x12 Colorado silica sand.
- 12.5 to 13 feet: Hydrated bentonite chips.
- 13 to 14 feet: Native slough.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. autohammer with a 24-inch drop.

∇ Water level at time of drilling.



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/18/09 COMPLETED 2/18/09 GROUND ELEVATION 1045.54 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING 7.0 ft / Elev 1038.5 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
0.0									
1.0								WOOD WASTE, dark brown, little medium to coarse rounded gravel, moist.	
2.5								SANDY GRAVEL, brown, fine to coarse, some fine-to coarse-grained sand, little silt, very dense, moist.	
2.5	X	D&M	GP7-S1	50	50/6"				Concrete
5.0	X	D&M		50	50/2"	GW			Hydrated bentonite chips
7.5	X	D&M							1"-diameter Sch. 40 PVC blank riser
7.5	X	D&M		60	50/6"				2x12 Colorado silica sand pack
8.5									1"-diameter Sch. 40 PVC 0.020"-slotted screen
									End cap
									Native slough

@ 6.5 feet: Becomes olive gray.
 @ 7.0 feet: Becomes wet.
 @ 7.5 feet: Orange-brown staining, trace silt, broken cobble in sampler.

Boring completed at 8.5 feet.

SOIL VAPOR PROBE COMPLETION DETAILS:

- +3 to 0 feet: 1"-diameter Sch. 40 PVC blank riser encased in an 8"-diameter protective steel monument set in concrete with three protective concrete-filled steel bollards.
- 0 to 3.6 feet: 1"-diameter Sch. 40 PVC blank riser.
- 3.6 to 6 feet: 1"-diameter Sch. 40 PVC 0.020"-slotted screen.
- 6 to 6.2 feet: 1"-diameter Sch. 40 PVC end cap.
- 0 to 2 feet: Concrete.
- 2 to 3 feet: Hydrated bentonite chips.
- 3 to 7.5 feet: 2x12 Colorado silica sand.
- 7.5 to 8.5 feet: Native slough.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.

Water level at time of drilling.



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/18/09 COMPLETED 2/18/09 GROUND ELEVATION 1046.98 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING 8.1 ft / Elev 1038.9 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
0.0								WOOD WASTE, little medium to coarse gravel, dry to moist.	<p>Concrete Hydrated bentonite chips 1"-diameter Sch. 40 PVC blank riser 2x12 Colorado silica sand pack 1"-diameter Sch. 40 PVC 0.020"-slotted screen End cap</p>
1.5							SANDY GRAVEL, brown, fine to coarse, some fine-to coarse-grained sand, few fines, medium-dense, moist.		
2.5		D&M	GP8-S1	66	37				
5.0		D&M			50/0"	GW	@ 5.0 feet: No recovery, cuttings indicate sandy gravel.		
7.5		D&M		10	36		@ 7.5 feet: Broken cobble in sampler.		
9.0							@ 8.1 feet: Becomes wet.		

Boring completed at 9.0 feet.

SOIL VAPOR PROBE COMPLETION DETAILS:

- +2.8 to 0 feet: 1"-diameter Sch. 40 PVC blank riser encased in an 8"-diameter protective steel monument set in concrete with three protective concrete-filled steel bollards.
- 0 to 4 feet: 1"-diameter Sch. 40 PVC blank riser.
- 4 to 6.5 feet: 1"-diameter Sch. 40 PVC 0.020"-slotted screen.
- 6.5 to 6.6 feet: 1"-diameter Sch. 40 PVC end cap.
- 0 to 2 feet: Concrete.
- 2 to 3 feet: Hydrated bentonite chips.
- 3 to 9 feet: 2x12 Colorado silica sand.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.

Water level at time of drilling.



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/18/09 COMPLETED 2/18/09 GROUND ELEVATION 1048.09 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger ∇ AT TIME OF DRILLING 7.0 ft / Elev 1041.1 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
0.0									
								WOOD WASTE, bark mulch, little medium to coarse gravel, dry to moist.	
									Concrete
2.5								GRAVELLY SAND, brown, medium- to coarse-grained, fine to medium gravel, medium-dense, damp.	Hydrated bentonite chips
		D&M	GP9-S1	75	22	SP			1"-diameter Sch. 40 PVC blank riser
5.0								SANDY GRAVEL, brown, fine to coarse, well-rounded to flattened, medium- to coarse-grained sand, very dense, damp, cobble in sampler.	2x12 Colorado silica sand pack
		D&M		90	50/6"			@ 6.0 feet: Grades to olive gray.	1"-diameter Sch. 40 PVC 0.020"-slotted screen
						GW		∇ @ 7.0 feet: Becomes wet.	End cap
7.5									
		D&M		90	50/6"				Native slough

Boring completed at 8.0 feet.

SOIL VAPOR PROBE COMPLETION DETAILS:

- +3 to 0 feet: 1"-diameter Sch. 40 PVC blank riser encased in an 8"-diameter protective steel monument set in concrete with three protective concrete-filled steel bollards.
- 0 to 4.2 feet: 1"-diameter Sch. 40 PVC blank riser.
- 4.2 to 6.8 feet: 1"-diameter Sch. 40 PVC 0.020"-slotted screen.
- 6.8 to 6.9 feet: 1"-diameter Sch. 40 PVC end cap.

- 0 to 2 feet: Concrete.
- 2 to 3 feet: Hydrated bentonite chips.
- 3 to 7.5 feet: 2x12 silica sand.
- 7.5 to 8 feet: Native slough.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.

∇ Water level at time of drilling.



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/18/09 COMPLETED 2/18/09 GROUND ELEVATION 1065.30 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger ∇ AT TIME OF DRILLING 12.9 ft / Elev 1052.4 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
0.0									
						GP		0.3 ASPHALT 0.5 ROAD BASE 1065.1 1064.8	
2.5		D&M	GP10-S1	80	18	GM		SILTY GRAVEL, dark brown, fine to coarse, some silt and wood waste, medium-dense, moist.	
5.0		D&M	GP10-S2	40	31			4.5 SANDY GRAVEL, olive brown, fine to coarse, fine-to coarse-grained sand, cobbles, medium-dense, moist.	
7.5		D&M		0	50/6"				
10.0		D&M		0	37	GW		@ 10.0 feet: Difficult drilling.	
12.5									
13.0								∇ @ 12.9 feet: Becomes wet. Boring completed at 13.0 feet.	

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.

∇ Water level at time of drilling.

SLR GP LOG YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/25/09



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
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SOIL VAPOR PROBE COMPLETION DETAILS:

+3 to 0 feet: 1"-diameter Sch. 40 PVC blank riser encased in an 8"-diameter protective steel monument set in concrete with three protective concrete-filled steel bollards.
 0 to 7.4 feet: 1"-diameter Sch. 40 PVC blank riser.
 7.4 to 12.2 feet: 1"-diameter Sch. 40 PVC 0.020"-slotted screen.
 12.2 to 12.5 feet: 1"-diameter Sch. 40 PVC end cap.

0 to 2 feet: Concrete.
 2 to 6.5 feet: Hydrated bentonite chips.
 6.5 to 13 feet: 2x12 Colorado silica sand.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.

∇ Water level at time of drilling.



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/19/09 COMPLETED 2/19/09 GROUND ELEVATION 1065.58 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING Dry
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
0.0								WOOD WASTE, bark mulch, some silty sand, little gravel.	
2.5									Concrete
4.0									Hydrated bentonite chips
5.0								SILTY SAND, fine- to coarse-grained, some silt, little fine to coarse well-rounded gravel, few wood waste, medium dense, moist.	
7.5		D&M		90	22	SM			1"-diameter Sch. 40 PVC blank riser
8.5								WOOD WASTE, reddish brown, bark mulch and wood chips, moist.	
10.0		D&M		80	38				2x12 Colorado silica sand pack
12.5									1"-diameter Sch. 40 PVC

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.

∇ Water level at time of drilling.

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CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
15.0								WOOD WASTE , reddish brown, bark mulch and wood chips, moist. <i>(continued)</i>	
	X	D&M			50/5"			@ 15.0 feet: Piece of wood caught in sampler, no recovery, moist.	End cap
								Boring completed at 15.5 feet.	

SOIL VAPOR PROBE COMPLETION DETAILS:

- +2.8 to 0 feet: 1"-diameter Sch. 40 PVC blank riser encased in an 8"-diameter protective steel monument set in concrete with three protective concrete-filled steel bollards.
- 0 to 10.3 feet: 1"-diameter Sch. 40 PVC blank riser.
- 10.3 to 15 feet: 1"-diameter Sch. 40 PVC 0.020"-slotted screen.
- 15 to 15.4 feet: 1"-diameter Sch. 40 PVC end cap.
- 0 to 2 feet: Concrete.
- 2 to 9 feet: Hydrated bentonite chips.
- 9 to 15.5 feet: 2x12 Colorado silica sand.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.

∇ Water level at time of drilling.



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 2/19/09 COMPLETED 2/19/09 GROUND ELEVATION 1062.34 ft HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger ∇ AT TIME OF DRILLING 17.5 ft / Elev 1044.8 ft
 LOGGED BY B. Robinson CHECKED BY _____ AT END OF _____
 NOTES _____ AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
0.0								WOOD WASTE, bark mulch, moist.	<p>Concrete</p> <p>Hydrated bentonite chips</p> <p>1"-diameter Sch. 40 PVC blank riser</p> <p>2x12 Colorado silica sand pack</p> <p>1"-diameter Sch. 40 PVC</p>
2.5		D&M	GP12-S1	90	39				
3.0							1059.3	SILTY SAND, olive gray, fine- to coarse-grained, little fine to coarse rounded gravel, medium-dense, moist.	
5.0		D&M	GP12-S2	80	25			5.0 to 10.0 feet: Little wood waste.	
7.5		D&M		5	10	SP-SM			
10.0		D&M		40	18			@ 10.0 feet: Becomes dark olive brown, some wood waste, cobble caught in sampler.	
12.5		D&M		0	18			@ 12.5 feet: No recovery. Cuttings indicate silty sand with some gravel.	

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.

∇ Water level at time of drilling.

SLR GP LOG YAKIMA SOIL BORINGS.GPJ GINT US.GDT 4/13/09



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
15.0						SP-SM		SILTY SAND , olive gray, fine- to coarse-grained, little fine to coarse rounded gravel, medium-dense, moist. <i>(continued)</i> @ 17.0 feet: Becomes olive gray, fine-grained, moist to wet, trace organics. @ 17.5 feet: Becomes wet.	
	D&M		5	36					
17.5									
	D&M	GP12-S3		100	38				

Boring completed at 19.5 feet, sandy gravel in end of sampler shoe.

SOIL VAPOR PROBE COMPLETION DETAILS:

- +3.1 to 0 feet: 1"-diameter Sch. 40 PVC blank riser encased in an 8"-diameter protective steel monument set in concrete with three protective concrete-filled steel bollards.
- 0 to 10.9 feet: 1"-diameter Sch. 40 PVC blank riser.
- 10.9 to 15.7 feet: 1"-diameter Sch. 40 PVC 0.020"-slotted screen.
- 15.7 to 16.0 feet: 1"-diameter Sch. 40 PVC end cap.
- 0 to 2 feet: Concrete.
- 2 to 10 feet: Hydrated bentonite chips.
- 10 to 18.5 feet: 2x12 Colorado silica sand.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.

∇ Water level at time of drilling.



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CLIENT <u>City of Yakima</u>	PROJECT NAME <u>Former City of Yakima Landfill</u>
PROJECT NUMBER <u>001.0221.00004</u>	PROJECT LOCATION <u>Yakima, Washington</u>
DATE STARTED <u>2/23/09</u> COMPLETED <u>2/23/09</u>	GROUND ELEVATION <u>1062.49 ft</u> HOLE SIZE <u>8.5" Diameter</u>
DRILLING CONTRACTOR <u>Cascade Drilling</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hollow Stem Auger</u>	AT TIME OF DRILLING <u>Dry</u>
LOGGED BY <u>C. Lee</u> CHECKED BY _____	AT END OF ---
NOTES _____	AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
0.0								WOOD WASTE, some gravelly sand, little silt.	
2.5		D&M	GP13-S1	100	10	SP		GRAVELLY SAND, gray, fine- to medium-grained, fine to coarse gravel, loose, moist.	
5.0		D&M	GP13-S2	100	29			WOOD WASTE, trace fine gravel, moist.	
7.5		D&M	GP13-S3	10	17				
10.0									

Boring completed at 10.0 feet.

SOIL VAPOR PROBE COMPLETION DETAILS:

- +2.9 to 0 feet: 1"-diameter Sch. 40 PVC blank riser encased in an 8"-diameter protective steel monument set in concrete with three protective concrete-filled steel bollards.
- 0 to 4.2 feet: 1"-diameter Sch. 40 PVC blank riser.
- 4.2 to 9 feet: 1"-diameter Sch. 40 PVC 0.020"-slotted screen.
- 9 to 9.3 feet: 1"-diameter Sch. 40 PVC end cap.

- 0 to 1 foot: Concrete.
- 1 to 3 feet: Hydrated bentonite chips.
- 3 to 10 feet: 2x12 Colorado silica sand.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.

∇ Water level at time of drilling.

SLR GP LOG YAKIMA SOIL BORINGS.GPJ GINT US.GDT 3/25/09



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CLIENT City of Yakima **PROJECT NAME** Former City of Yakima Landfill
PROJECT NUMBER 001.0221.00004 **PROJECT LOCATION** Yakima, Washington
DATE STARTED 4/16/09 **COMPLETED** 4/16/09 **GROUND ELEVATION** _____ **HOLE SIZE** 8.5" Diameter
DRILLING CONTRACTOR Cascade Drilling **GROUND WATER LEVELS:**
DRILLING METHOD Hollow Stem Auger **AT TIME OF DRILLING** 13.5 ft
LOGGED BY C. Lee **CHECKED BY** _____ **AT END OF** ---
NOTES _____ **AFTER DRILLING** ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
0.0									
2.5		D&M		80	20	ML		SANDY SILT , brown, low plasticity, little fine-grained sand, very stiff, damp, trace roots.	Concrete Hydrated bentonite chips
5.0		D&M		25	17	GP		SANDY GRAVEL , gray, medium to coarse, little brown fine-grained sand, loose, damp.	1"-diameter Sch. 40 PVC blank riser
7.5		D&M		25	17	GP			2x12 Colorado silica sand pack
10.0		D&M		50	18	SP		GRAVELLY SAND , brown, fine-grained, some fine gravel, little fractured cobbles, medium-dense, damp.	
12.5		D&M		75	27	GP		SANDY GRAVEL , gray, coarse, fractured, little fine-grained sand, trace fine gravel, medium-dense, damp to moist.	1"-diameter Sch. 40 PVC 0.020"-slotted screen

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.

▽ Water level at time of drilling.

SLR GP LOG YAKIMA SOIL BORINGS.GPJ GINT US.GDT 4/23/09



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CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 4/16/09 COMPLETED 4/16/09 GROUND ELEVATION _____ HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING 13.5 ft
 LOGGED BY C. Lee CHECKED BY _____ AT END OF _____
 AFTER DRILLING _____

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
0.0									
2.5		D&M		30	23	SP		SAND, brown, fine-grained, few fine to medium gravel, few fractured cobbles, medium-dense, damp, trace roots.	Concrete Hydrated bentonite chips 1"-diameter Sch. 40 PVC blank riser
5.0		D&M		50	24	GP		GRAVEL, gray, medium to coarse, subangular to subrounded, trace fine gravel, trace fine-grained brown sand, medium-dense, damp.	
7.5		D&M		50	50/6"	GP		SANDY GRAVEL, gray, coarse, subangular to subrounded, some fractured cobbles, little fine-grained sand, very dense, damp.	2x12 Colorado silica sand pack
8.0		D&M		50	50/6"	GP		GRAVEL, gray, coarse, subrounded, very dense, damp.	
10.5						GP		SANDY GRAVEL, gray, coarse, subrounded, some fractured cobbles, little fine-grained sand, very dense, moist.	1"-diameter Sch. 40 PVC 0.020"-slotted screen
12.5		D&M			72	GP			

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.

Water level at time of drilling.

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PROBE NUMBER GP-16

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 4/16/09 COMPLETED 4/16/09 GROUND ELEVATION _____ HOLE SIZE 8.5" Diameter
 DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING METHOD Hollow Stem Auger ∇ AT TIME OF DRILLING 13.5 ft
 LOGGED BY C. Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
0.0									
2.5		D&M		100	34	GM		SILTY GRAVEL, gray, coarse, subrounded, little brown silt, few fine gravel, few fine-grained sand, medium-dense, moist.	
3.5		D&M		0	50/2"			GRAVEL, gray, coarse, some cobbles, few fine-grained sand, very dense, damp.	
5.0									
7.5		D&M		0	50/6"	GP			
10.0		D&M		10	50/6"				
10.5									
12.5		D&M		80	50/6"	GP		SANDY GRAVEL, gray, coarse, subangular, some fractured cobbles, little fine- to medium-grained sand, dry.	

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.

∇ Water level at time of drilling.

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CLIENT City of Yakima

PROJECT NAME Former City of Yakima Landfill

PROJECT NUMBER 001.0221.00004

PROJECT LOCATION Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
12.5									
						GP		SANDY GRAVEL , gray, coarse, subangular, some fractured cobbles, little fine- to medium-grained sand, dry. (continued)	<p>End cap</p> <p>Native slough.</p>
15.0		D&M		50	18	SW		GRAVELLY SAND , brown, fine- to coarse-grained, little medium to coarse gravel, little fractured cobbles, trace silt, wet.	

Boring completed at 15.5 feet.

SOIL VAPOR PROBE COMPLETION DETAILS:

- 0 to 3.2 feet: 1"-diameter Sch. 40 PVC blank riser.
- 3.2 to 13 feet: 1"-diameter Sch. 40 PVC 0.020"-slotted screen.
- 13 to 13.3 feet: 1"-diameter Sch. 40 PVC end cap.
- 0 to 1 foot: Concrete.
- 1 to 2.5 feet: Hydrated bentonite chips.
- 3 to 14 feet: 2x12 Colorado silica sand.
- 14 to 15.5 feet: Native slough.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.

∇ Water level at time of drilling.

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PROBE NUMBER GP-17

PAGE 1 OF 2

CLIENT City of Yakima	PROJECT NAME Former City of Yakima Landfill
PROJECT NUMBER 001.0221.00004	PROJECT LOCATION Yakima, Washington
DATE STARTED 4/17/09 COMPLETED 4/17/09	GROUND ELEVATION _____ HOLE SIZE 8.5" Diameter
DRILLING CONTRACTOR Cascade Drilling	GROUND WATER LEVELS:
DRILLING METHOD Hollow Stem Auger	∇ AT TIME OF DRILLING 14.5 ft
LOGGED BY C. Lee CHECKED BY _____	AT END OF ---
NOTES _____	AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
0.0									
2.5		D&M		80	23	GM		SILTY GRAVEL , gray, coarse, subangular to subrounded, some fractured cobbles, some brown silt, trace fine- to medium-grained sand, medium-dense, moist.	Concrete
3.5		D&M		100	50/6"			GRAVEL , gray, coarse, subangular to subrounded, some fractured cobbles, few fine- to medium-grained brown sand, trace silt, very dense, damp.	Hydrated bentonite chips
5.0						GP		@ 5.5 feet: No silt.	1"-diameter Sch. 40 PVC blank riser
7.5		D&M		70	50/6"				2x12 Colorado silica sand pack
8.5						GP		SANDY GRAVEL , gray, medium to coarse, subrounded to rounded, some fractured cobbles, little fine- to medium-grained brown sand, medium-dense, damp.	
10.0		D&M		50	31	GP			
11.0		D&M		100	50/5"	GP		GRAVEL , gray, coarse, subrounded to rounded, some fractured cobbles, very dense, damp.	1"-diameter Sch. 40 PVC 0.020"-slotted screen
12.5									

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.

∇ Water level at time of drilling.

(Continued Next Page)

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CLIENT City of Yakima **PROJECT NAME** Former City of Yakima Landfill
PROJECT NUMBER 001.0221.00004 **PROJECT LOCATION** Yakima, Washington

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
12.5									
15.0		D&M		50	36	GP		GRAVEL , gray, coarse, subrounded to rounded, some fractured cobbles, very dense, damp. <i>(continued)</i> @ 13.0 feet: Few fine- to medium-grained sand. @ 14.5 feet: Becomes wet.	End cap

Boring completed at 15.0 feet.

SOIL VAPOR PROBE COMPLETION DETAILS:

- 0 to 3.2 feet: 1"-diameter Sch. 40 PVC blank riser.
- 3.2 to 13 feet: 1"-diameter Sch. 40 PVC 0.020"-slotted screen.
- 13 to 13.3 feet: 1"-diameter Sch. 40 PVC end cap.
- 0 to 1 foot: Concrete.
- 1 to 2.5 feet: Hydrated bentonite chips.
- 3 to 15 feet: 2x12 Colorado silica sand.

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.

Water level at time of drilling.



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PROBE NUMBER GP-18

CLIENT City of Yakima PROJECT NAME Former City of Yakima Landfill
 PROJECT NUMBER 001.0221.00004 PROJECT LOCATION Yakima, Washington
 DATE STARTED 4/17/09 COMPLETED 4/17/09 GROUND ELEVATION _____ HOLE SIZE 8.5" Diameter
 DRILLING DRILLING CONTRACTOR Cascade Drilling GROUND WATER LEVELS:
 DRILLING DRILLING METHOD Hollow Stem Auger AT TIME OF DRILLING ---
 LOGGED BY C. Lee CHECKED BY _____ AT END OF ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft)	INTERVAL	TYPE	NAME	RECOVERY %	BLOW COUNTS PER FOOT (N VALUE)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	PROBE DIAGRAM
0.0									
2.5		D&M		0	26			GRAVEL, gray, coarse, some cobbles up to 8"-diameter, little fine-grained sand, damp. @ 1.5 feet: No recovery.	Concrete Hydrated bentonite chips
5.0		D&M		25	16	GP		@ 3.5 feet: Medium to coarse gravel, little fractured cobbles, trace fine- to medium-grained sand, loose.	1"-diameter Sch. 40 PVC blank riser
7.5		D&M		10	71			@ 6.5 feet: Some fractured cobbles, few fine- to medium-grained sand, very dense, dry.	2x12 Colorado silica sand pack
11.0									1"-diameter Sch. 40 PVC 0.020"-slotted screen
12.5		D&M		80	51	GP		SANDY GRAVEL, gray, coarse, some fractured cobbles, little brown fine- to medium-grained sand, medium-dense, damp.	

REMARKS

SS = Samples collected by using an 18-inch-long, 3.0-inch outside diameter Dames & Moore split-barrel sampler driven by a 300 lb. wireline hammer.
 Did not encounter water in boring.

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