

	PROJECT NUMBER <b>161844.A0.ZZ</b>	BORING NUMBER <b>GW01</b>	SHEET 1 OF 1
<h2 style="margin: 0;">SOIL BORING LOG</h2>			

PROJECT : Northwest Pipe Company	LOCATION : Portland, Oregon
ELEVATION :	DRILLING CONTRACTOR : <u>Geo Tech Inc.</u>
DRILLING METHOD AND EQUIPMENT USED <u>Geoprobe</u>	
WATER LEVELS <u>11'</u>	START : <u>8/29/02</u> END : <u>8/29/02</u> LOGGER : <u>Patrick Heins</u>

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	STANDARD PENETRATION TEST RESULTS	CORE DESCRIPTION
		Headspace PID (ppm)	6"-6"-6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.
5	0-8" 8"-2.2' 2.2'-6'	0.3		Asphalt Poorly graded coarse gravel ( <b>GM</b> ) brown, dry Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, dry
10	6'-12'	0.3		Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, moist
15	12'-16'	0.4	Water level	Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, saturated
20		0.4		Water sample collected at 15 feet <b>BORING TERMINATED AT DEPTH OF 16 FEET</b>
25				Soil sampled continuously for logging purposes Abandoned by backfill with bentonite chips
30				
35				
40				















	<b>PROJECT NUMBER</b> <b>161844.A0.ZZ</b>	<b>BORING NUMBER</b> <b>GW09</b>	SHEET 1 OF 1
<b>SOIL BORING LOG</b>			

<b>PROJECT :</b> Northwest Pipe Company	<b>LOCATION :</b> Portland, Oregon
<b>ELEVATION :</b> _____	<b>DRILLING CONTRACTOR :</b> Geo Tech Inc.
<b>DRILLING METHOD AND EQUIPMENT USED</b> Geoprobe	
<b>WATER LEVELS 14'</b>	<b>START :</b> 8/29/02 <b>END :</b> 8/29/02 <b>LOGGER :</b> Patrick Heins

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)			STANDARD PENETRATION TEST RESULTS 6"-6"-6" (N)	CORE DESCRIPTION  SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.			
	RECOVERY (IN)	Headspace	PID (ppm)					
						RECOVERY (IN)		
						RECOVERY (IN)		
5	0.2	0.1	0.1	0.7	Asphalt Poorly graded coarse gravel ( <b>GM</b> ) brown, dry Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, dry Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, moist  Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, saturated  1/16" layer of black silt ( <b>ML</b> ) Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, saturated Water sample and duplicate sample collected at 15 feet			
10	0.2	0.1	0.1	0.7	Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, saturated  1/16" layer of black silt ( <b>ML</b> ) Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, saturated Water sample and duplicate sample collected at 15 feet			
15	0.2	0.1	0.1	0.7	Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, saturated  1/16" layer of black silt ( <b>ML</b> ) Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, saturated Water sample and duplicate sample collected at 15 feet			
20					BORING TERMINATED AT DEPTH OF 16 FEET Soil sampled continuously for logging purposes Abandoned by backfill with bentonite chips			
25					BORING TERMINATED AT DEPTH OF 16 FEET Soil sampled continuously for logging purposes Abandoned by backfill with bentonite chips			
30					BORING TERMINATED AT DEPTH OF 16 FEET Soil sampled continuously for logging purposes Abandoned by backfill with bentonite chips			
35					BORING TERMINATED AT DEPTH OF 16 FEET Soil sampled continuously for logging purposes Abandoned by backfill with bentonite chips			
40					BORING TERMINATED AT DEPTH OF 16 FEET Soil sampled continuously for logging purposes Abandoned by backfill with bentonite chips			

	<b>PROJECT NUMBER</b> <b>161844.A0.ZZ</b>	<b>BORING NUMBER</b> <b>GW10</b>	SHEET 1 OF 1
<b>SOIL BORING LOG</b>			

<b>PROJECT :</b> Northwest Pipe Company	<b>LOCATION :</b> Portland, Oregon
<b>ELEVATION :</b> _____	<b>DRILLING CONTRACTOR :</b> Geo Tech Inc.
<b>DRILLING METHOD AND EQUIPMENT USED</b> Geoprobe	
<b>WATER LEVELS 14'</b>	<b>START :</b> 8/29/02 <b>END :</b> 8/29/02 <b>LOGGER :</b> Patrick Heins

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	STANDARD PENETRATION TEST RESULTS	CORE DESCRIPTION
		Headspace PID (ppm)	6"-6"-6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.
5	0-0.25' 0.25'-1' 1'-5'	0		Asphalt Poorly graded coarse gravel ( <b>GM</b> ) brown, dry Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, dry
10	5'-11'	0.3		Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, moist
15	11'-16'	0.9		Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, saturated
		5.1	Water level	Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, gray, saturated Water sample collected at 15 feet <b>BORING TERMINATED AT DEPTH OF 16 FEET</b>
20				Soil sampled continuously for logging purposes Abandoned by backfill with bentonite chips
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	<b>PROJECT NUMBER</b> <b>161844.A0.ZZ</b>	<b>BORING NUMBER</b> <b>GW11</b>	SHEET 1 OF 1
<b>SOIL BORING LOG</b>			

<b>PROJECT :</b> Northwest Pipe Company	<b>LOCATION :</b> Portland, Oregon
<b>ELEVATION :</b> _____	<b>DRILLING CONTRACTOR :</b> Geo Tech Inc.
<b>DRILLING METHOD AND EQUIPMENT USED</b> Geoprobe	
<b>WATER LEVELS</b> 14'	<b>START :</b> 8/30/02 <b>END :</b> 8/30/02 <b>LOGGER :</b> Patrick Heins

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	STANDARD PENETRATION TEST RESULTS	CORE DESCRIPTION
		Headspace PID (ppm)	6"-6"-6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.
5	0-0.5' 0.5'-5'	0.4		Poorly graded coarse gravel ( <b>GM</b> ) brown, dry Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, dry
10	5'-12'	0.6		Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, moist
15	12'-16'	1.2		Soil sample collected at 11 feet Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, saturated
		4.0	Water level	Water sample collected at 15 feet. Pumped dry 3 times during purging. <b>BORING TERMINATED AT DEPTH OF 16 FEET</b>
20				Soil sampled continuously for logging purposes Abandoned by backfill with bentonite chips
25				
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35				
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	<b>PROJECT NUMBER</b> <b>161844.A0.ZZ</b>	<b>BORING NUMBER</b> <b>GW12</b>	SHEET 1 OF 1
<b>SOIL BORING LOG</b>			

<b>PROJECT :</b> Northwest Pipe Company	<b>LOCATION :</b> Portland, Oregon
<b>ELEVATION :</b> _____	<b>DRILLING CONTRACTOR :</b> Geo Tech Inc.
<b>DRILLING METHOD AND EQUIPMENT USED</b> Geoprobe	
<b>WATER LEVELS 14'</b>	<b>START :</b> 8/30/02 <b>END :</b> 8/30/02 <b>LOGGER :</b> Patrick Heins

DEPTH BELOW SURFACE (FT)	INTERVAL (FT)	RECOVERY (IN)	STANDARD PENETRATION TEST RESULTS	CORE DESCRIPTION
		Headspace PID (ppm)	6"-6"-6" (N)	SOIL NAME, USCS GROUP SYMBOL, COLOR, MOISTURE CONTENT, RELATIVE DENSITY, OR CONSISTENCY, SOIL STRUCTURE, MINERALOGY.
5	0-0.5' 0.5'-4' 4'-11'	0.4  0.2		Poorly graded coarse gravel ( <b>GM</b> ) brown, dry Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, dry Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, moist
10	11'-16'	2.4		Well graded sand ( <b>SW</b> ) ranging from medium to fine grained, brown, saturated Soil sample collected at 13 feet
15		19.3	Water level	Water sample collected at 15 feet <b>BORING TERMINATED AT DEPTH OF 16 FEET</b>
20				Soil sampled continuously for logging purposes Abandoned by backfill with bentonite chips
25				
30				
35				
40				