





# Boring Number: GP-101

**Client:** Northwest Pipe Company  
**Project:** July 2004 Geoprobe  
**Location:** NW of maintenance, perforated pipe  
**Project Number:** 161844.A0.ZZ

**Driller:** Geo Tech Inc  
**Drilling Method:** Geoprobe  
**Sampling Method:** Continuous core  
**Logged by:** Pat Heins  
**Start/Finish Date:** 7/21/04

Depth (ft)	Sample Information				Soil Log	Soil Description	Depth (ft)	Comments
	Sample	Sample Type	Recovery (ft.)	PID (ppm)				
0						Ground Surface	0	
						<b>Asphalt</b> 4" Asphalt	0	
						<b>GM</b> 3/4" gravel fill with fines	1	
	1	GP	3.5'		0.0	<b>SP</b> Poorly graded sand, brown, moist, medium to fine grained sand		
5								
	2	GP	3.5'		0.4			
10								
	3	GP	5'		0.5	<b>SP</b> 1/4" Poorly graded sand, moist, dark gray, medium to fine grain sand <b>SP</b> Poorly graded sand, brown, saturated, medium to fine grained sand	10	
								- Water level 13' bgs
15								
	4	GP	5'		0.4	<b>SP</b> Poorly graded sand, dark gray, saturated, medium to fine grained sand	13	- Top of temp screen
								- Water sample GP-101-72104-20 collected at 20' bgs
20						Geoprobe abandoned by filling with hydrated bentonite chips	20	- Bottom of temp screen
						End of Log		








# Boring Number: GP-102

Sheet: 1 of 1

**Client:** Northwest Pipe Company  
**Project:** July 2004 Geoprobe  
**Location:** South of Schnitzer Road  
**Project Number:** 161844.A0.ZZ

**Driller:** Geo Tech Inc  
**Drilling Method:** Geoprobe  
**Sampling Method:** Continuous core  
**Logged by:** Pat Heins  
**Start/Finish Date:** 7/21/04

Depth (ft)	Sample Information				Soil Log	Soil Description	Depth (ft)	Comments
	Sample	Sample Type	Recovery (ft.)	PID (ppm)				
0						Ground Surface		
0						<b>Asphalt</b>	0	
1	1	GP	4'			6" Asphalt	1	
2						<b>GM</b> 3/4" - gravel fill with fines	2	
3						<b>SP</b> Poorly graded sand, brown, moist, medium to fine grained sand		
5					0.0			
7	2	GP	4.5'			<b>SM</b> 3" silty sand, brown, moist	7	
10						<b>SP</b> Poorly graded sand, brown, saturated, medium to fine grained sand		
15					0.2			- Water level 13.8' bgs
20	3	GP	5'					- Top of temp screen
20					0.3			- Water sample GP-102-72104-20 collected at 20' bgs
20	4	GP	5'					- Bottom of temp screen
20						Geoprobe abandoned by filling with hydrated bentonite chips	20	End of Log



# Boring Number: GP-103

**Client:** Northwest Pipe Company  
**Project:** July 2004 Geoprobe  
**Location:** South of Schnitzer Road  
**Project Number:** 161844.A0.ZZ

**Driller:** Geo Tech Inc  
**Drilling Method:** Geoprobe  
**Sampling Method:** Continuous core  
**Logged by:** Pat Heins  
**Start/Finish Date:** 7/21/04

Depth (ft)	Sample Information				Soil Log	Soil Description	Depth (ft)	Comments
	Sample	Sample Type	Recovery (ft.)	PID (ppm)				
0						Ground Surface	0	
						GM 3/4" gravel fill with fines	1	
	1	GP	4'	0.0		SP Well graded sand, brown, moist, medium to fine grained sand		
5				0.0				
	2	GP	4.5'	0.0				
10				0.2				
	3	GP	3'	0.2				
15				0.1				
	4	GP	5'	0.1				
20						Geoprobe abandoned by filling with hydrated bentonite chips	20	
						End of Log		

- Water level 14' bgs  
 - Lost sampler down hole, moved boring 1' east to continue, abandoned hole with hydrated bentonite chips  
 - Top of temp screen  
 - Water sample GP-103-72104-20 collected at 20' bgs  
 - Bottom of temp screen



# Boring Number: GP-104

Sheet: 1 of 1

**Client:** Northwest Pipe Company  
**Project:** July 2004 Geoprobe  
**Location:** South of Schnitzer Road  
**Project Number:** 161844.A0.ZZ

**Driller:** Geo Tech Inc  
**Drilling Method:** Geoprobe  
**Sampling Method:** Continuous core  
**Logged by:** Pat Heins  
**Start/Finish Date:** 7/21/04

Depth (ft)	Sample Information				Soil Log	Soil Description	Depth (ft)	Comments
	Sample	Sample Type	Recovery (ft.)	PID (ppm)				
0						Ground Surface		
0					GM		0	
1	1	GP	5'		3/4" gravel fill with fines		1	
2					ML		2	
					Silt, light brown, dry, stiff, medium plasticity			
					SP			
					Poorly graded sand, brown, moist, medium to fine grained sand			
5								
10	2	GP	5'					
10					ML		10	
					1/4" Silt, light brown, dry			
					SP			
					Poorly graded sand, brown, moist, medium to fine grained sand			
15	3	GP	5'					- Water level 14.6' bgs
								- Top of temp screen
20	4	GP	4.5'					- Water sample GP-104-72104-20 collected at 20' bgs
								- Bottom of temp screen
20					Geoprobe abandoned by filling with hydrated bentonite chips	End of Log	20	



# Boring Number: GP-106

**Client:** Northwest Pipe Company  
**Project:** July 2004 Geoprobe  
**Location:** East of plant entrance gate  
**Project Number:** 161844.A0.ZZ

**Driller:** Geo Tech Inc  
**Drilling Method:** Geoprobe  
**Sampling Method:** Continuous core  
**Logged by:** Pat Heins  
**Start/Finish Date:** 7/21/04

Depth (ft)	Sample Information				Soil Log	Soil Description	Depth (ft)	Comments
	Sample	Sample Type	Recovery (ft.)	PID (ppm)				
0						Ground Surface		
0					<b>Asphalt</b> 6" Asphalt		0	
1	1	GP	5'		<b>GM</b> 3/4" gravel fill with fines		1	
3					<b>SM</b> 8" band sandy silt, moist, brown		3	
3					<b>SP</b> Poorly graded sand, brown, saturated, medium to fine grained sand		3	
5								
10	2	GP	5'					
10								
15	3	GP	5'					
15					<b>ML</b> 1" Silt, 1/4" light brown, 1/2" gray, 1/4" light brown, moist		14	- Water level 15.6' bgs
15					<b>SP</b> Poorly graded sand, brown, moist, medium to fine grained sand			- Top of temp screen
17					<b>ML</b> 2" silt, dark gray, moist, with root structures		17	- Water sample GP-106-72104-20 collected at 20' bgs
19	4	GP	5'		<b>SP</b> Poorly graded sand, brown, saturated, medium to fine grained sand		19	
20					<b>SP</b> Poorly graded sand, dark gray, saturated, medium to fine grained sand		20	- Bottom of temp screen
					Geoprobe abandoned by filling with hydrated bentonite chips	End of Log		








# Boring Number: GP-107

Sheet: 1 of 1

Client: Northwest Pipe Company  
 Project: July 2004 Geoprobe  
 Location: NE of guard post  
 Project Number: 161844.A0.ZZ

Driller: Geo Tech Inc  
 Drilling Method: Geoprobe  
 Sampling Method: Continuous core  
 Logged by: Pat Heins  
 Start/Finish Date: 7/21/04

Depth (ft)	Sample Information				Soil Log	Soil Description	Depth (ft)	Comments
	Sample	Sample Type	Recovery (ft.)	PID (ppm)				
0						Ground Surface		
0						<b>GM</b> 3/4" gravel fill with fines	0	
2	1	GP	4.5'			<b>ML</b> Silt, brown with green mottling, moist, stiff, low plasticity	2	
3					0.0			
3						<b>SP</b> Poorly graded sand, brown, saturated, medium to fine grained sand	3	
5					0.1			
10	2	GP	4.5'		0.1			
15					0.1			- Water level 16' bgs - Top of temp screen
18	3	GP	5'		0.1			
18						<b>ML</b> 2" Silt, dark gray, moist, with wood fragments	18	- Water sample GP-107-72104-20 collected at 20' bgs
20	4	GP	5'			<b>SM</b> Silty sand, gray, moist, medium to fine grained sand, with root structures	20	- Bottom of temp screen
20						End of Log		Geoprobe abandoned by filling with hydrated bentonite chips



# Boring Number: GP-108

**Client:** Northwest Pipe Company  
**Project:** July 2004 Geoprobe  
**Location:** East of Bay 1 in employee parking area  
**Project Number:** 161844.A0.ZZ

**Driller:** Geo Tech Inc  
**Drilling Method:** Geoprobe  
**Sampling Method:** Continuous core  
**Logged by:** Pat Heins  
**Start/Finish Date:** 7/21/04

Depth (ft)	Sample Information				Soil Log	Soil Description	Depth (ft)	Comments
	Sample	Sample Type	Recovery (ft.)	PID (ppm)				
0						Ground Surface		
0						<b>GM</b> 3/4" gravel fill with fines	0	
2	1	GP	4.5'			<b>ML</b> Silt, light gray with light brown mottling, moist, Stiff, low plasticity	2	
4						<b>SP</b> Poorly graded sand, brown, moist, medium to fine grained sand	4	
5								
10	2	GP	4.5'					
12						<b>ML</b> 2" Silt, dark gray, moist	12	
15	3	GP	5'			<b>SM</b> Silty sand, brown, moist, medium to fine grained sand		- Water level 14' bgs
17						<b>SP</b> Poorly graded sand, dark gray, saturated, medium to fine grained sand	17	- Top of temp screen
20	4	GP	5'					- Water sample GP-108-72104-20 collected at 20' bgs
20					Geoprobe abandoned by filling with hydrated bentonite chips	End of Log	20	- Bottom of temp screen










# Boring Number: GP-109

Sheet: 1 of 1

**Client:** Northwest Pipe Company  
**Project:** July 2004 Geoprobe  
**Location:** East of Bay 2 in employee parking area  
**Project Number:** 161844.A0.ZZ

**Driller:** Geo Tech Inc  
**Drilling Method:** Geoprobe  
**Sampling Method:** Continuous core  
**Logged by:** Pat Heins  
**Start/Finish Date:** 7/21/04

Depth (ft)	Sample Information				Soil Log	Soil Description	Depth (ft)	Comments
	Sample	Sample Type	Recovery (ft.)	PID (ppm)				
0						Ground Surface	0	
	1	GP	5'		 <b>GM</b> 3/4" gravel fill with fines			
					 <b>ML</b> Silt, brown with light gray and green mottling, moist, stiff, low plasticity			
					 <b>SP</b> Poorly graded sand, brown, moist, medium to fine grained sand			
5	2	GP	4.5'		 <b>ML</b> 2" Silt, dark gray, moist			
					 <b>SM</b> Silty sand, brown, moist, medium to fine grained sand			
10	3	GP	5'		 <b>ML</b> 1" Silt, 1/8" light brown, 3/4" olive gray, 1/8" light brown, moist		- Water level 14' bgs	
					 <b>SP</b> Poorly graded sand, dark gray, saturated, medium to fine grained sand		- Top of temp screen	
15	4	GP	5'				- Water sample GP-109-72104-20 collected at 20' bgs	
20					Geoprobe abandoned by filling with hydrated bentonite chips	End of Log	20	- Bottom of temp screen
















# Boring Number: GP-110

Sheet: 1 of 1

**Client:** Northwest Pipe Company  
**Project:** July 2004 Geoprobe  
**Location:** East of Bay 3 in office parking area  
**Project Number:** 161844.A0.ZZ

**Driller:** Geo Tech Inc  
**Drilling Method:** Geoprobe  
**Sampling Method:** Continuous core  
**Logged by:** Pat Heins  
**Start/Finish Date:** 7/21/04

Depth (ft)	Sample Information				Soil Log	Soil Description	Depth (ft)	Comments
	Sample	Sample Type	Recovery (ft.)	PID (ppm)				
0						Ground Surface		
0						<b>Asphalt</b>	0	
1						6" Asphalt	1	
2						<b>GM</b> 3/4" gravel fill with fines	2	
5	1	GP	5'			<b>ML</b> Silt, light brown, moist, firm, low plasticity		
5						<b>SP</b> Poorly graded sand, brown, moist, medium to fine grained sand	5	
10	2	GP	5'					
15	3	GP	5'					
16						<b>ML</b> 2" Silt, dark gray, moist	16	- Top of temp screen
20	4	GP	5'			<b>SP</b> Silty sand, brown, moist, medium to fine grained sand		- Water level 13' bgs
20								- Water sample GP-110-72104-20 collected at 20' bgs
20						Geoprobe abandoned by filling with hydrated bentonite chips	20	- Bottom of temp screen
						End of Log		



# Boring Number: GP-111

Sheet: 1 of 1

**Client:** Northwest Pipe Company  
**Project:** July 2004 Geoprobe  
**Location:** East of Bay 4 in office parking area  
**Project Number:** 161844.A0.ZZ

**Driller:** Geo Tech Inc  
**Drilling Method:** Geoprobe  
**Sampling Method:** Continuous core  
**Logged by:** Pat Heins  
**Start/Finish Date:** 7/21/04

Depth (ft)	Sample Information				Soil Log	Soil Description	Depth (ft)	Comments
	Sample	Sample Type	Recovery (ft.)	PID (ppm)				
0						Ground Surface		
0					Asphalt		0	
1	1	GP	4.5'		6" Asphalt		1	
2					GM		2	
3					3/4" gravel fill with fines		2	
4					SP		0.0	
5					Poorly graded sand, brown, moist, medium to fine grain sand		4	
6					ML		4	
7					3" silt, brown, moist		4	
8					SP		0.2	
9	2	GP	4.5'		Poorly graded sand, brown, moist, medium to fine grain sand		4	
10					ML		7	
11					6" Silt, dark gray, moist		7	
12					SM		8	
13					Silty sand, brown, moist, medium to fine grained sand		8	
14					ML		9	
15					8" Silt, 1" light brown, 5" dark gray, 2" light brown, moist		9	
16					SP		0.3	
17	3	GP	5'		Poorly graded sand, brown, moist, medium to fine grained sand		0.3	
18							0.3	- Water level 13' bgs
19					SM		15	
20					Silty sand, dark brown, moist		15	
21					SP		16	
22					Poorly graded sand, brown, moist, medium to fine grained sand		16	- Top of temp screen
23	4	GP	5'				0.3	
24							0.3	- Water sample GP-110-72104-20 collected at 20' bgs
25					SP		19	
26					Poorly graded sand, dark gray, saturated, medium to fine grained sand		19	
27							20	- Bottom of temp screen
28							20	Geoprobe abandoned by filling with hydrated bentonite chips
						End of Log		



# Boring Number: GP-112

**Client:** Northwest Pipe Company  
**Project:** July 2004 Geoprobe  
**Location:** 100' ESE of monitoring well 1  
**Project Number:** 161844.A0.ZZ

**Driller:** Geo Tech Inc  
**Drilling Method:** Geoprobe  
**Sampling Method:** Continuous core  
**Logged by:** Pat Heins  
**Start/Finish Date:** 7/22/04 to 7/23/04

Depth (ft)	Sample Information				Soil Log	Soil Description	Depth (ft)	Comments
	Sample	Sample Type	Recovery (ft.)	PID (ppm)				
0						Ground Surface		
0						<b>Asphalt</b>	0	
1						6" Asphalt	1	
2	1	GP	4.5'			<b>GM</b> 3/4" gravel fill with fines	2	
4						<b>SP</b> Poorly graded sand, brown, moist, medium to fine grained sand	0.4	
5							0.6	
6	2	GP	4.5'				0.6	
10						<b>ML</b> 8" Silt, dark brown, moist	10	
11							11	
12	3	GP	4.5'			<b>SP</b> Poorly graded sand, brown, moist, medium to fine grained sand	1.0	
15						<b>SP</b> Poorly graded sand, brown, moist, medium to fine grained sand with 1/8" black wood material	15	
16						<b>SP</b> Poorly graded sand, brown, moist, medium to fine grained sand	72.5	
17	4	GP	4.5'				72.5	
20						<b>SP</b> Poorly graded sand, gray, moist, medium to fine grained sand	20	
21							4.5	
22	5	GP	3'				4.5	
25							25	



# Boring Number: GP-112

Sheet: 2 of 5

**Client:** Northwest Pipe Company  
**Project:** July 2004 Geoprobe  
**Location:** 100' ESE of monitoring well 1  
**Project Number:** 161844.A0.ZZ

**Driller:** Geo Tech Inc  
**Drilling Method:** Geoprobe  
**Sampling Method:** Continuous core  
**Logged by:** Pat Heins  
**Start/Finish Date:** 7/22/04 to 7/23/04

Depth (ft)	Sample Information				Soil Log	Soil Description	Depth (ft)	Comments
	Sample	Sample Type	Recovery (ft.)	PID (ppm)				
28	6	GP	5'		1.3 <b>SM</b> 1/8" Sandy silt, gray, moist <b>SP-SM</b> Poorly graded sand with some silt, gray, moist, medium to fine grained sand	28		
30					<b>ML</b> Silt, olive gray, moist, stiff, medium plasticity	30	- Set bottom depth of larger casing (3.25" O.D.) at 30', telescoped inside with 1.5" O.D. rod for deeper samples	
31	7	GP	4'		<b>ML</b> Silt, olive gray with light brown mottling, moist, stiff, medium plasticity <b>ML</b> Silt, olive gray, moist, stiff, medium plasticity, with some root structures at 33' to 35'	31		
35								
40	8	GP	4'		1.4			
45								
50	9	GP	4.5'		1.4			
	10	GP	5'		1.4			





# Boring Number: GP-112

Sheet: 4 of 5

**Client:** Northwest Pipe Company  
**Project:** July 2004 Geoprobe  
**Location:** 100' ESE of monitoring well 1  
**Project Number:** 161844.A0.ZZ

**Driller:** Geo Tech Inc  
**Drilling Method:** Geoprobe  
**Sampling Method:** Continuous core  
**Logged by:** Pat Heins  
**Start/Finish Date:** 7/22/04 to 7/23/04

Depth (ft)	Sample Information				Soil Log	Soil Description	Depth (ft)	Comments
	Sample	Sample Type	Recovery (ft.)	PID (ppm)				
76	16	GP	5'	0.8	SP 1" Poorly graded sand, gray, moist, medium to fine grained sand with root material up to 1/4" diameter	76		
77					ML Silt, dark gray, moist, stiff, medium plasticity	77		
78					SP-SM Poorly graded sand with some silt, dark gray, moist, medium to fine grained sand	78		
80					ML Silt, dark gray, moist, firm, medium plasticity	80		
83	17	GP	5'	1.0	SM Sandy silt, dark gray, moist - dry, medium to fine grained sand	83		
84					ML Silt, dark gray, moist-dry, stiff, medium plasticity	84		
85					SM Sandy silt, dark gray, moist, loose, low plasticity	85		
87	18	GP	5'	1.1	ML Silt, dark gray, moist, firm, low plasticity	87		
88					Organic matter 2" forest debris, pine needles, peat	88		
89					SM 3" Silty sand, dark gray, moist	89		
92					ML Silt, dark gray, moist, stiff, medium plasticity	92		
92	19	GP	5'	0.9	SM Silty sand, dark gray, moist	92		
95					ML Silt, dark gray, moist, firm, low plasticity	95	- Top of temp screen	
95					SM Sandy silts, dark gray, moist - dry	95		
96	20	GP	5'	1.0	SP-SM Silty sand, dark gray, moist, with 2" lenses of poorly graded sand, medium to fine grained sand	96	- Water sample GP-112-72304-98 collected at 98' bgs - Bottom of temp screen	
99					ML Silt, dark gray, moist, stiff, medium plasticity	99		
100								



# Boring Number: GP-112

**Client:** Northwest Pipe Company  
**Project:** July 2004 Geoprobe  
**Location:** 100' ESE of monitoring well 1  
**Project Number:** 161844.A0.ZZ

**Driller:** Geo Tech Inc  
**Drilling Method:** Geoprobe  
**Sampling Method:** Continuous core  
**Logged by:** Pat Heins  
**Start/Finish Date:** 7/22/04 to 7/23/04

Depth (ft)	Sample Information				Soil Log	Soil Description	Depth (ft)	Comments
	Sample	Sample Type	Recovery (ft.)	PID (ppm)				
105	21	GP	5'	1.0				
110	22	GP	5'	0.9				
115	23	GP	5'	1.0				
120	24	GP	4'	0.9				
120					SP Poorly graded sand, dark gray, moist, medium to fine grained sand	119		
					End of Log  Geoprobe abandoned by filling with bentonite grout.	120		
125								

