Log of Exploratory Boring:

Notes
2737 West Commodore Way
North of New Barrel Shed

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Hollow-stem Auger
Location:	50' North and 80' West of NW Corner of Headquarters Office Building
Surface Condition:	Asphalt
Total Depth:	28
First GW Depth:	21.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0								Asphalt (3 inches)		
1	7							Damp, very stiff, fine sandy SILT with gravel. Dark greenish gray, no hydrocarbon odor.		
2	11	0.8	70		B01-2				Dp	
3	11 7									
4	8 6		50						Dp	
5	2 3 3	29.0	70		B01-5			Damp, stiff, fine sandy SILT. Black, weak hydrocarbon odor.	Dp	
6	2 2		95					Damp, medium stiff, fine sandy SILT. Dark greenish gray, very faint hydrocarbon odor.	Dp	
7	1						ML	Soft, no hydrocarbon odor.		
8	6 6 5	7.1	100		B01-8				Mst	
9	14 14		90					Damp, stiff, silty, very fine SAND. Brown and gray mottled, weak hydrocarbon odor.	Dp	
10	14 NR									
11	NR NR		95					Damp, very stiff, silty, very fine SAND. Brown, very faint hydrocarbon odor. Coarsens downward from very fine to fine.	Dp	
12	14 14		95						Dp	
13	18									
14	9 13 9	0.0	90		B01-13.5			Damp, medium dense, silty fine SAND. Orange-brown, very faint hydrocarbon odor.	Dp	
15	7 16	0.0	80		B01-15			Damp, dense, silty, fine to medium SAND. Brown, no hydrocarbon odor.	Dp	
16	20 21						SM			
17	31 36		100					Very dense to dense, coarsens downward. No hydrocarbon odor.	Dp	
18	17 18		100						Dp	
19	21 17									
20	21		100						Dp	

SOUND ENVIRONMENTAL STRATEGIES
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Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 4/21/2006
Date Finished: 4/21/2006
Logged By: CSC
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
B01 / 01MW30

Log of Exploratory Boring:

Notes
2737 West Commodore Way
North of New Barrel Shed

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Hollow-stem Auger
Location:	50' North and 80' West of NW Corner of Headquarters Office Building
Surface Condition:	Asphalt
Total Depth:	28
First GW Depth:	21.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20	26									
21	19 21 25	0.2	100		B01-21			Damp, dense, silty fine SAND. Orange-brown, very faint hydrocarbon odor.	Mst/Wet	
22	19 25									
23	50		100				SM	Moist to wet below 21.5', silty, medium to fine SAND. Brown, no hydrocarbon odor.	Wet	
24	20 30 30		100						Wet	
25	15	0.5			B01-25			Wet, very dense. Dark gray, no hydrocarbon odor.		
26	27 32	0.9	100		B01-26			Damp, very hard, fine sandy SILT. Dark gray, no hydrocarbon odor.	Wet	
27	12 17 36		100				ML		Wet	
28								Boring terminated at 28 feet below ground surface. Two-inch diameter monitoring well installed as depicted above right, using stainless steel, 0.020 slot screen, 10-12 silica sand, and bentonite chips. Renamed 01MW30. NR = Blow count not recorded.		
29										
30										
31										
32										
33										
34										
35										
36										
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39										
40										

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-stem Auger
Location:	100' North and 5' West of NW Corner of Headquarters Building
Surface Condition:	Broken Asphalt
Total Depth:	26
First GW Depth:	10

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0								Broken asphalt (3 inches)		
3	30 28 20		100				SM	Moist to damp, dense, gravelly, silty SAND. Tan, no hydrocarbon odor (Fill).	Mst	
4							ML	Damp, hard, sandy SILT. Reddish brown, no hydrocarbon odor.		
6	8 18 23	0.0	100				ML	Damp, hard, sandy SILT interbedded with thin layers of silty fine SAND. Reddish brown, no hydrocarbon odor.	Dp	
8	15 16 19	0.0	70				ML	Damp, hard, very fine sandy SILT. Brown, no hydrocarbon odor.	Dp	
10	2 3 3	1.0	100		01MW31-10		SM	Wet, loose, silty, fine SAND. Brown to gray, weak hydrocarbon odor.	▽ Wet	
13	40 50/4"	5.1	100		01MW31-13		SM	Moist, very dense, silty, fine SAND. Gray to brown, weak hydrocarbon odor.	Mst	
15	45 50/2"	3.9	66				SM	Damp, very dense, silty, fine to medium SAND. Tan, weak hydrocarbon odor.	Dp	
18	50/6"	8.2	33				SM	Damp, very dense, silty, fine SAND. Tan, very faint hydrocarbon odor.	Dp	

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-stem Auger
Location:	100' North and 5' West of NW Corner of Headquarters Building
Surface Condition:	Broken Asphalt
Total Depth:	26
First GW Depth:	10

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20	50/6"	8.1	33		01MW31-20		SM	Moist, very dense, silty fine SAND. Dark gray, very faint hydrocarbon odor.	Mst	
21										
22							SM			
23	36 40 50/6"	0.4	100		01MW31-23		CL-ML	Wet, very dense, silty fine to medium SAND. Dark gray, no hydrocarbon odor. Damp, very hard, clayey SILT, dark gray, no hydrocarbon odor.	Wet	
24										
25	32 50/6"	0.2	100				CL-ML	Damp, very hard, clayey SILT, dark gray, no hydrocarbon odor.	Dp	
26								Boring terminated at 26.2 feet below ground surface. Two-inch diameter monitoring well installed as depicted above right, using PVC, 0.010 slot screen, 10-12 silica sand, and bentonite chips.		
27										
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35										
36										
37										
38										
39										
40										

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-stem Auger
Location:	100' North and 65' East of NW Corner of Headquarters Building
Surface Condition:	Gravel Shoulder
Total Depth:	28
First GW Depth:	20

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0								Asphalt (3 inches)		
5	8 8 8		0					No recovery: rock in sampler shoe.		
10	34 50/6"	0.1	100		01MW32-10		SP-SM SM	Damp, dense, fine SAND with silt. Brown, no hydrocarbon odor. Damp, very dense, silty SAND. Brown, no hydrocarbon odor.	Dp	
13	50/6"	0.2	50				SM	Damp, very dense, silty SAND. Brown, no hydrocarbon odor.	Mst	
15	80/6"	0.2	50				SM	Damp, very dense, silty SAND. Brown, no hydrocarbon odor.	Mst	
18	60/2"	0.0	50		01MW32-17.5		SM	Moist, very dense, silty SAND. Brown, no hydrocarbon odor.	Dp	
20									▽	

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 7/6/2006
Date Finished: 7/6/2006
Logged By: RAH
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
01MW32

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-stem Auger
Location:	100' North and 65' East of NW Corner of Headquarters Building
Surface Condition:	Gravel Shoulder
Total Depth:	28
First GW Depth:	20

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20	50/6"	0.2	50		01MW32-20		SM	Wet, very dense, silty SAND. Grayish brown, no hydrocarbon odor.	Wet	
21										
22										
23	28 50/5"	0.1	100				SM ML	Moist, very dense, silty SAND with clay, low plasticity. Gray, no hydrocarbon odor. Moist, very hard, clayey SILT with sand, low plasticity. Gray, no hydrocarbon odor.	Mst	
24										
25	50/6"	1.0	50		01MW32-25		SM	Damp, very dense, silty SAND. Gray, no hydrocarbon odor.	Dp	
26										
27										
28	50/6"	0.1	50		01MW32-27		ML	Moist, very hard, clayey SILT. Gray, no hydrocarbon odor.	Mst	
29								Boring terminated at 28 feet below ground surface. Two-inch diameter monitoring well installed as depicted above right, using PVC, 0.010 slot screen, 10-12 silica sand, and bentonite chips.		
30										
31										
32										
33										
34										
35										
36										
37										
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39										
40										

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Loading Rack

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-stem Auger
Location:	25' North and 170' East of NW Corner of Headquarters Building
Surface Condition:	Concrete
Total Depth:	23
First GW Depth:	8

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content
0								Concrete (8 inches)	
3	50 20 17	0.9	100				SM	Damp, dense, silty fine SAND. Brown, no hydrocarbon odor	Dp
6	11 11 12	0.9	100				ML	Wet, very stiff, fine sandy SILT. Tan to orange, no hydrocarbon odor.	Wet
8	12 12 14	279	100		01MW33-8.5		SM	Wet, medium dense, silty fine SAND with peaty material. Dark gray, strong hydrocarbon odor.	▼▽ Wet
11	5 5 8	39.1	100		01MW33-11		SM	Wet, medium dense, silty fine SAND. Dark gray, strong hydrocarbon odor.	Wet
13	50/6"	13.7	33				SM	Moist to wet, very dense, silty fine SAND. Blue gray, moderate hydrocarbon odor.	Wet
15	60/6"	6.9	33				SM	Wet, very dense, silty fine SAND. Dark gray, weak hydrocarbon odor.	Wet
18	60/5"	2.0	33		01MW33-18		SM	Wet, very dense, silty fine SAND. Dark gray, very faint hydrocarbon odor.	Wet
20									

Well Detail

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Loading Rack

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-stem Auger
Location:	25' North and 170' East of NW Corner of Headquarters Building
Surface Condition:	Concrete
Total Depth:	23
First GW Depth:	8

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20	55/6"	0.0	33				ML	Damp, very hard, clayey SILT, with trace fine sand and plant fibers, massive. Dark grey, no hydrocarbon odor.	Dp	
21										
22										
23	50/6		100		01MW33-23		SM	Moist to wet, very dense, silty fine SAND. Dark gray, no hydrocarbon odor.	Wet	
24								Boring terminated at 23 feet below ground surface. Two-inch diameter monitoring well installed as depicted above right, using PVC, 0.010 slot screen, 10-12 silica sand, and bentonite chips.		
25										
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30										
31										
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40										

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-stem Auger
Location:	25' North and 205' East of NW Corner of Headquarters Building
Surface Condition:	Concrete
Total Depth:	25.3
First GW Depth:	11

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0								Concrete (8 inches)		
5	8 12 14	0.3	100				SP-SM	Moist, medium dense, fine SAND with silt, poorly sorted. Brown, no hydrocarbon odor.	Mst	
6							SM	Moist, dense, silty SAND, with trace fine gravel, poorly sorted. Brown, no hydrocarbon odor.		
10	28 50/6"	0.3	50		01MW34-11		SM	Moist, very dense, silty SAND, poorly sorted. Brown, no hydrocarbon odor.	Mst ▽	
13	20 23 28	0.4	100				SM	Moist, very dense, silty SAND, poorly sorted. Brown, no hydrocarbon odor.	Mst	
16	20 28 33	0.1	100				SM	Moist, very dense, silty SAND, poorly sorted. Brown, no hydrocarbon odor.	Mst	
18	38 50/6"	0.2	50		01MW34-18		SM	Moist, very dense, silty SAND, poorly sorted. Brown to reddish brown, no hydrocarbon odor.	Mst	

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 7/7/2006
Date Finished: 7/7/2006
Logged By: RAH
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
01MW34

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-stem Auger
Location:	25' North and 205' East of NW Corner of Headquarters Building
Surface Condition:	Concrete
Total Depth:	25.3
First GW Depth:	11

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20										
21	29 33 44	0.4	100				ML	Wet, very hard, clayey SILT, low plasticity. Gray, no hydrocarbon odor.	Wet	
22										
23	12 12 14	0.1	100				SM	Moist, very dense, silty SAND with trace clay. Gray brown, no hydrocarbon odor.	Mst	
24										
25	100/3"		100				WOOD	Timbers encountered at 25 feet below ground surface (Tunnel over Sewer).		
26								Boring terminated at 25.3 feet below ground surface. Two-inch diameter monitoring well installed as depicted above right, using PVC, 0.010 slot screen, 10-12 silica sand, and bentonite chips.		
27										
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32										
33										
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35										
36										
37										
38										
39										
40										

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-stem Auger
Location:	80' North and 120' East of NW Corner of Headquarters Building
Surface Condition:	Asphalt
Total Depth:	24
First GW Depth:	15

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0								Asphalt (3 inches)		
5	12 15 15	0.3	100				SM	Moist, dense, silty SAND with some fine gravel, poorly sorted. Brown, no hydrocarbon odor.	Mst	
10	9 12 14	0.2	100		01MW35-11		SM	Moist, medium dense, silty SAND, poorly sorted. Dark brown, moderate hydrocarbon odor at the bottom of the sample interval.	Mst	
15	31 26 36	100	100		01MW35-16		SM	Wet, very dense, silty SAND, poorly sorted. Gray, strong hydrocarbon odor.	▽ Dp	
20									▼	

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 7/7/2006
Date Finished: 7/7/2006
Logged By: RAH
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
01MW35

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-stem Auger
Location:	80' North and 120' East of NW Corner of Headquarters Building
Surface Condition:	Asphalt
Total Depth:	24
First GW Depth:	15

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20										
21	31 40 46	12.9	100		01MW35-21		SM	Damp, very dense, silty SAND, poorly sorted. Gray, weak hydrocarbon odor.	Dp	
22										
23										
24								Timbers encountered at 24 feet below ground surface (Tunnel over Sewer).		
25								Boring terminated at 24 feet below ground surface. Two-inch diameter monitoring well installed as depicted above right, using PVC, 0.010 slot screen, 10-12 silica sand, and bentonite chips.		
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-stem Auger
Location:	75' North and 160' East of NW Corner of Headquarters Building
Surface Condition:	Gravel
Total Depth:	25.5
First GW Depth:	20

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content
0								Crushed rock (3 inches)	
5	16 18 24	1.2	100				SP-SM	Damp, dense, fine SAND with silt. Tan, no hydrocarbon odor.	Dp
6							SM	Damp, dense, silty, very fine SAND. Tan, no hydrocarbon odor.	
10	8 20 23	0.8	100		01MW36-11		SM	Damp, dense, silty fine SAND. Tan mottled with orange, no hydrocarbon odor.	Dp
13	60/6"	0.3	33				SM	Damp, very dense, silty fine SAND. Tan, no hydrocarbon odor.	Dp
15	55/6"	0.3	33		01MW36-15		SP-SM	Damp, very dense, fine SAND with silt. Tan, no hydrocarbon odor.	Dp
19								▼	
20								▽	

Well Detail

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-stem Auger
Location:	75' North and 160' East of NW Corner of Headquarters Building
Surface Condition:	Gravel
Total Depth:	25.5
First GW Depth:	20

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20	27 30 38	0.2	100		01MW36-21		SP-SM	Wet, very dense, fine SAND with silt. Blue gray, no hydrocarbon odor.	Wet	
21							ML	Moist, very hard, clayey SILT. Blue gray, no hydrocarbon odor.		
22										
23										
24										
25			100					Timbers encountered at 25 feet below ground surface (Tunnel over Sewer).		
26								Boring terminated at 25 feet below ground surface. Two-inch diameter monitoring well installed as depicted above right, using PVC, 0.010 slot screen, 10-12 silica sand, and bentonite chips.		
27										
28										
29										
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32										
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39										
40										

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard

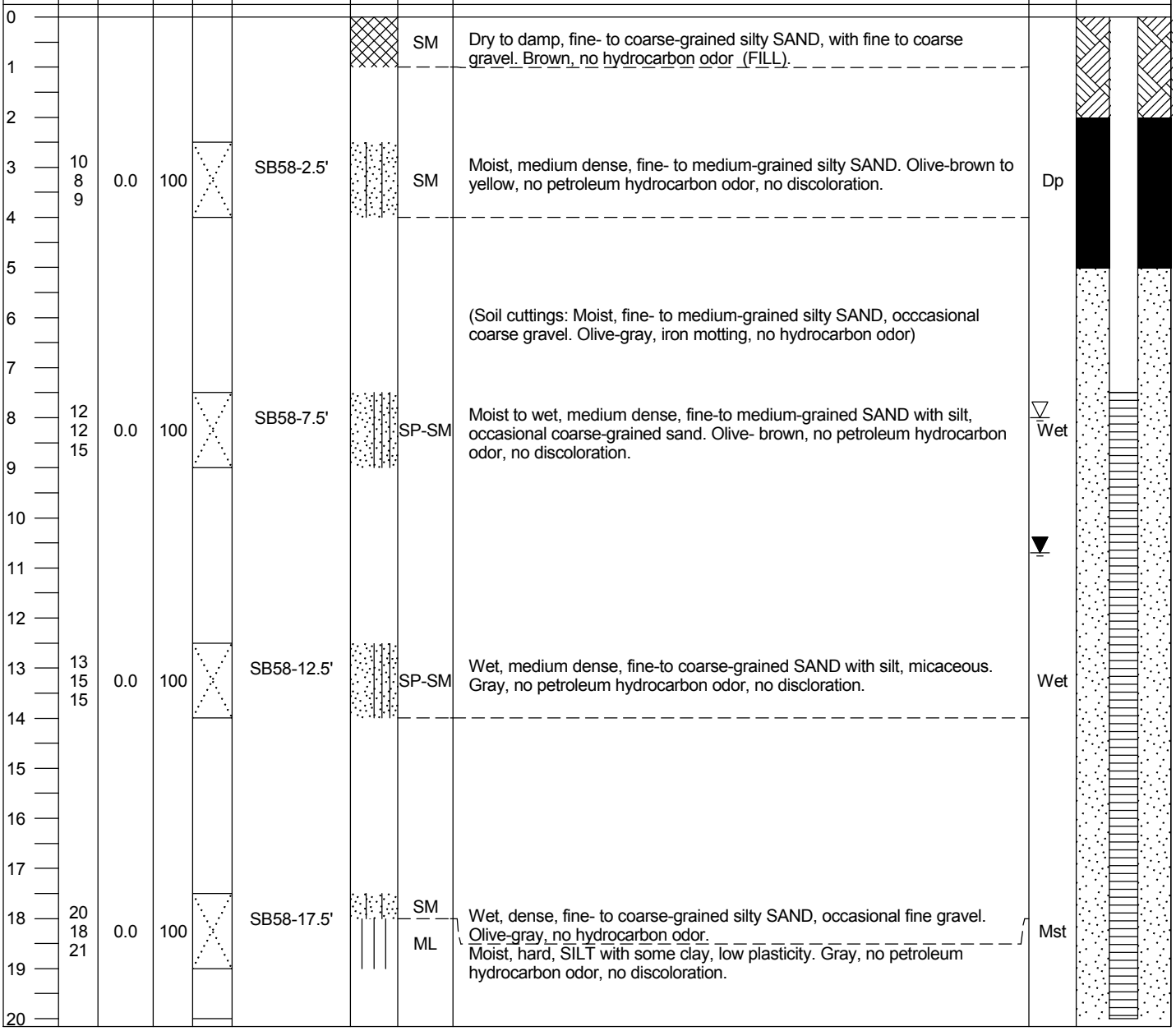
Drilling Co./Driller:	Cascade / James
Drilling Method:	Hollow-stem Auger
Location:	180' South and 350' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	24
First GW Depth:	8

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							SM	Dry to damp, fine- to coarse-grained silty SAND, with fine to coarse gravel. Brown, no hydrocarbon odor (FILL).		
3	10 8 9	0.0	100		SB58-2.5'		SM	Moist, medium dense, fine- to medium-grained silty SAND. Olive-brown to yellow, no petroleum hydrocarbon odor, no discoloration.	Dp	
6								(Soil cuttings: Moist, fine- to medium-grained silty SAND, occcasional coarse gravel. Olive-gray, iron motting, no hydrocarbon odor)		
8	12 12 15	0.0	100		SB58-7.5'		SP-SM	Moist to wet, medium dense, fine-to medium-grained SAND with silt, occasional coarse-grained sand. Olive- brown, no petroleum hydrocarbon odor, no discoloration.	▽ Wet	
11									▼	
13	13 15 15	0.0	100		SB58-12.5'		SP-SM	Wet, medium dense, fine-to coarse-grained SAND with silt, micaceous. Gray, no petroleum hydrocarbon odor, no discloration.	Wet	
18	20 18 21	0.0	100		SB58-17.5'		SM ML	Wet, dense, fine- to coarse-grained silty SAND, occasional fine gravel. Olive-gray, no hydrocarbon odor. Moist, hard, SILT with some clay, low plasticity. Gray, no petroleum hydrocarbon odor, no discoloration.	Mst	
20										



SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 9/7/2006
Date Finished: 9/7/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
SB58 / 01MW37

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard

Drilling Co./Driller:	Cascade / James
Drilling Method:	Hollow-stem Auger
Location:	180' South and 350' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	24
First GW Depth:	8

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20	15 17 20	0.0	100		SB58-20'		ML	Moist, hard, SILT with some clay, low plasticity. Gray, no petroleum hydrocarbon odor, no discoloration.	Mst	
21										
22										
23	13 14 14	0.0	100		SB58-22.5'		SP-SM	Wet, medium dense, fine-grained SAND with silt, micaceous. Gray, no petroleum hydrocarbon odor, no discoloration.	Wet	
24								Boring terminated at 24 feet below ground surface. Two-inch diameter monitoring well installed as depicted above right, using PVC, 0.010 slot screen, 10-12 silica sand, and bentonite chips. Groundwater was encountered at 8 feet below ground surface during drilling. Boring was completed as monitoring well 01MW37.		
25										
26										
27										
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35										
36										
37										
38										
39										
40										

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard

Drilling Co./Driller:	Cascade / James
Drilling Method:	Hollow-stem Auger
Location:	235' South and 280' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	24
First GW Depth:	7.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0										
1							SM	(Soil cuttings: Dry to damp, silty, fine to coarse SAND, with fine to coarse gravel. Yellow-brown, no hydrocarbon odor).		
2										
3	8 8 10	0.0	100		SB59-2.5'		ML	Moist, very stiff SILT with some clay, gray with iron oxide staining, moderate petroleum hydrocarbon odor, no discoloration.	Dp	
4										
5										
6										
7									▽	
8	10 15 19	0.0	100		SB59-7.5'		SP-SM	Wet, dense, fine to medium SAND with silt, some coarse sand. Gray, no petroleum hydrocarbon odor, no discoloration.	Mst	
9									▼	
10										
11										
12										
13	19 19 29	0.0	100		SB59-12.5'		SP-SM	Wet, dense, fine to medium SAND with silt, some coarse sand. Gray, no petroleum hydrocarbon odor, no discoloration.	Wet	
14										
15										
16										
17										
18	21 24 25	0.0	100		SB59-17.5'		ML	Moist, hard, SILT with some clay, slightly plastic. Dark brown with natural organic specks, no petroleum hydrocarbon odor, no discoloration.	Mst	
19										
20										

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard

Drilling Co./Driller:	Cascade / James
Drilling Method:	Hollow-stem Auger
Location:	235' South and 280' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	24
First GW Depth:	7.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20	27 29 30	0.0	100		SB59-20'		ML	Moist, hard, SILT with some clay, slightly plastic, dark brown natural organic specks, no petroleum hydrocarbon odor, no discoloration.	Mst	
22										
23	30 30 29	0.0	100		SB59-22.5'		SM	Moist, very dense, silty, fine SAND, micaceous. Gray, no petroleum hydrocarbon odor, no discoloration.	Mst	
24								Boring terminated at 24 feet below ground surface. Two-inch diameter monitoring well installed as depicted above right, using PVC, 0.010 slot screen, 10-12 silica sand, and bentonite chips. Groundwater was encountered at 7.5 feet below ground surface during drilling. Boring was completed as monitoring well 01MW38.		
25										
26										
27										
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Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard

Drilling Co./Driller:	Cascade / James
Drilling Method:	Hollow-stem Auger
Location:	305' South and 105' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	23.5
First GW Depth:	12

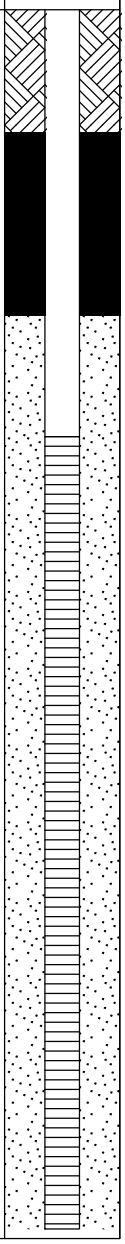
Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content
0									
1							SM	(Soil cuttings: Dry to damp, silty, fine to coarse SAND, with fine to coarse gravel. Yellow-brown.)	
2									
3	10 16 20	0.0	100		SB60-2.5'		ML	Moist, hard, SILT, micaceous with lenses of fine-grained sand. Gray, no petroleum hydrocarbon, no discoloration.	Mst
4									
5									
6									
7									
8	11 15 21	0.0	100		SB60-7.5'		SP-SM	Moist, dense, fine to medium SAND with silt, micaceous, gray, no petroleum hydrocarbon, no discoloration.	Mst
9									
10									
11									
12									▽
13	20 25 50/6"	0.0	100		SB60-12.5'		SP-SM	Wet, very dense, fine to coarse SAND with silt, micaceous. Gray, no petroleum hydrocarbon odor, no discoloration.	Mst
14									▼
15									
16									
17									
18	31 50/6"	0.0	100		SB60-17.5'		SP-SM	Wet, very dense, fine to coarse SAND with silt, micaceous. Gray, no petroleum hydrocarbon odor, no discoloration.	Wet
19									
20									

Well Detail



SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 9/7/2006
Date Finished: 9/7/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
SB60 / 01MW39

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard

Drilling Co./Driller:	Cascade / James
Drilling Method:	Hollow-stem Auger
Location:	305' South and 105' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	23.5
First GW Depth:	12

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20										
21	21 50/6"	0.0	100		SB60-20'		SM	Wet, very dense, silty, fine to coarse SAND, micaceous. Gray, no petroleum hydrocarbon odor, no discoloration.	Wet	
22										
23	32 50/6'	0.0	100		SB60-22.5'		ML	Moist, very hard, SILT with some clay, dark-brown natural organic specks, micaceous, low plasticity. Dark-gray, no petroleum hydrocarbon odor, no discoloration.	Mst	
24								Boring terminated at 23.5 feet below ground surface. Two-inch diameter monitoring well installed as depicted above right, using PVC, 0.010 slot screen, 10-12 silica sand, and bentonite chips. Groundwater was encountered at 12 feet below ground surface during drilling. Boring was completed as monitoring well 01MW39.		
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Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard

Drilling Co./Driller:	Cascade / James
Drilling Method:	Hollow-stem Auger
Location:	160' South and 115' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	23.5
First GW Depth:	12

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0										
1								Dark brown surface staining.		
2										
3	11 14 29	0.0	100		SB61-2.5'		ML	Damp, stiff, SILT. Olive-gray, iron mottling, no petroleum hydrocarbon, no discoloration.	Dp	
4							SP-SM	Damp, dense, fine- to medium-grained SAND with silt. Olive-gray, no petroleum hydrocarbon, no discoloration.		
5										
6										
7										
8	12 15 16	0.0	100		SB61-7.5'		SM	Moist, dense, silty, fine SAND, micaceous. Olive-brown, iron mottling, no petroleum hydrocarbon odor, no discoloration.	Mst	
9										
10										
11										
12									▽	
13	15 16 18	0.0	100		SB61-12.5'		SP-SM	Wet, medium dense, fine-to medium-grained SAND, micaceous, olive-gray, no petroleum hydrocarbon odor, no discoloration.	Wet	
14										
15									▼	
16										
17										
18	36 50/6"	0.0	100		SB61-17.5'		SP-SM	Wet, very dense, fine to coarse SAND with silt, laminated with lenses of silt (<1 inch thick). Gray with iron mottling, no petroleum hydrocarbon odor, no discoloration.	Wet	
19										
20										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 9/7/2006
Date Finished: 9/7/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
SB61 / 01MW40

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard

Drilling Co./Driller:	Cascade / James
Drilling Method:	Hollow-stem Auger
Location:	160' South and 115' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	23.5
First GW Depth:	12

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20										
21	33 50/6"	0.0	100		SB61-20'		SP-SM	Wet, very dense, fine to coarse SAND with silt, laminated with lenses of silt (<1 inch thick). Gray, no petroleum hydrocarbon odor, no discoloration.	Wet	
22										
23	38 50/6'	0.0	100		SB61-22.5'		ML	Moist, very hard, SILT with some clay, micaceous, low plasticity. Dark-gray with dark-brown natural organic specks, no petroleum hydrocarbon odor, no discoloration.	Mst	
24								Boring terminated at 23.5 feet below ground surface. Two-inch diameter monitoring well installed as depicted above right, using PVC, 0.010 slot screen, 10-12 silica sand, and bentonite chips. Groundwater was encountered at 12 feet below ground surface during drilling. Boring was completed as monitoring well 01MW40.		
25										
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39										
40										

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard

Drilling Co./Driller:	Cascade / James
Drilling Method:	Hollow-stem Auger
Location:	90' South and 160' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	23
First GW Depth:	12

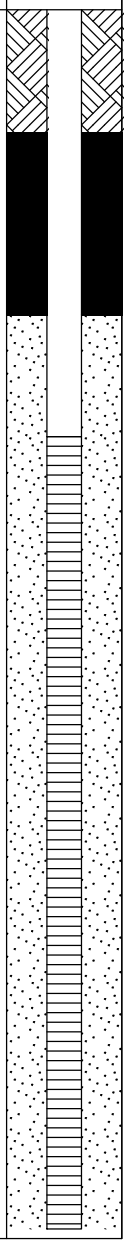
Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content
0–1							SM	(Soil Cuttings: Dry to damp, silty, fine to coarse SAND, with fine to coarse gravel. Yellow-brown)	
3	7 21 33	0.0	100		SB62-2.5'		ML	Damp, hard, SILT, with fine sand. Gray to olive-gray with iron mottling, no petroleum hydrocarbon, no discoloration.	Dp
8	24 31 32	0.0	100		SB62-7.5'		SM	Moist, very dense, fine- to medium-grained silty SAND, micaceous, gray-brown with iron oxide staining, no petroleum hydrocarbon odor, no discoloration.	Mst
11									▼
12									▽
13	15 15 17	0.0	100		SB62-12.5'		SP-SM	Wet, dense, fine to medium SAND with silt, occasional coarse sand, micaceous. Gray, no petroleum hydrocarbon odor, no discoloration.	Wet
18	33 50/6"	0.0	100		SB62-17.5'		SP-SM	Wet, very dense, fine to coarse SAND with silt. Gray, no petroleum hydrocarbon odor, no discoloration.	Wet

Well Detail



SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 9/8/2006
Date Finished: 9/8/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
SB62 / 01MW41

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard

Drilling Co./Driller:	Cascade / James
Drilling Method:	Hollow-stem Auger
Location:	90' South and 160' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	23
First GW Depth:	12

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20	29	0.0	100		SB62-20'		ML	Moist, very hard SILT, some clay, micaceous, low plasticity. Dark gray with dark brown natural organic specks, no petroleum hydrocarbon odor, no discoloration.	Mst	
21	50/6"									
22										
23	50/6"	0.0	100		SB62-22.5'		ML	Moist, very hard SILT, some clay, micaceous, low plasticity. Dark gray with dark brown natural organic specks, no petroleum hydrocarbon odor, no discoloration.	Mst	
24								Boring terminated at 23 feet below ground surface. Two-inch diameter monitoring well installed as depicted above right, using PVC, 0.010 slot screen, 10-12 silica sand, and bentonite chips. Groundwater was encountered at 12 feet bgs during drilling. Boring was completed as monitoring well 01MW41.		
25										
26										
27										
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38										
39										
40										

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard

Drilling Co./Driller:	Cascade / James
Drilling Method:	Hollow-stem Auger
Location:	40' South and 230' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	23.5
First GW Depth:	12

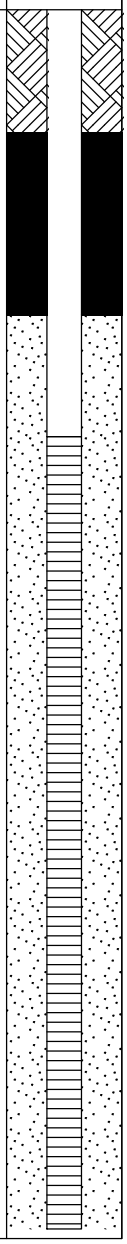
Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content
0–2							SM	(Soil Cuttings: Dry, silty, fine to coarse SAND, with fine to coarse gravel. Yellow-brown)	
3–4	8 6 12	0.0	100		SB63-2.5'		SM	Moist, medium dense, silty fine to medium SAND, with occasional coarse-grained sand. Olive-brown with iron mottling, no petroleum hydrocarbon odor, no discoloration.	Mst
8–9	12 13 16	0.0	100		SB63-7.5'		SP-SM	Moist to wet, medium dense, fine to medium SAND with some silt, occasional coarse-grained sand, micaceous. Olive-gray with iron oxide staining, no petroleum hydrocarbon odor, no discoloration.	Mst ▼
12									▽
13–14	15 17 20	0.0	100		SB63-12.5'		SP-SM	Wet, dense, fine to coarse SAND with silt, micaceous. Olive-gray with iron mottling, no petroleum hydrocarbon odor, no discoloration.	Wet
18	26 50/6"	0.0	100		SB63-17.5'		SP-SM	Wet, very dense, fine to coarse SAND with silt, micaceous. Gray with iron mottling, no petroleum hydrocarbon odor, no discoloration.	Wet

Well Detail



SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 9/8/2006
Date Finished: 9/8/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
SB63 / 01MW42

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard

Drilling Co./Driller:	Cascade / James
Drilling Method:	Hollow-stem Auger
Location:	40' South and 230' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	23.5
First GW Depth:	12

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20										
21	39 50/6"	0.0	100		SB63-20'		ML	Moist, hard, SILT with clay, micaceous, low plasticity. Dark gray with dark brown natural organic specks, no petroleum hydrocarbon odor, no discoloration.	Mst	
22										
23	31 50/6"	0.0	100		SB63-22.5'		ML	Moist, very hard, SILT with clay, with lenses of fine sand (<0.5 inches thick), micaceous, non-plastic. Dark gray, no petroleum hydrocarbon odor, no discoloration.	Mst	
24										
25										
26								Boring terminated at 23.5 feet below ground surface. Two-inch diameter monitoring well installed as depicted above right, using PVC, 0.010 slot screen, 10-12 silica sand, and bentonite chips. Groundwater was encountered at 12 feet bgs during drilling. Boring was completed as monitoring well 01MW42.		
27										
28										
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Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Loading Rack

Drilling Co./Driller:	Cascade / James
Drilling Method:	Hollow-stem Auger
Location:	5' South and 170' East of NW Corner of Headquarters Building
Surface Condition:	Pea Gravel
Total Depth:	23.5
First GW Depth:	8

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content
0–4	3 3 4		100		SB64-2.5'		GP	Damp, loose, fine GRAVEL (Pea Gravel) mixed with silty SAND. Gray.	Dp
7									▼
8–9	7 7 10	16.0	100		SB64-7.5'		SM	Wet below 8 feet, medium dense, silty fine to medium SAND, occasional coarse sand. Olive-brown to gray, strong petroleum hydrocarbon odor, gray discoloration.	▽ Mst
13–14	10 10 12	0.0	100		SB64-12.5'		SP-SM	Wet, medium dense, fine to medium SAND with silt, laminated with lenses of SILT (<1 inch thick), micaceous. Olive-gray with iron mottling, moderate petroleum hydrocarbon odor, no discoloration.	Wet
18	36 50/6"	0.0	100		SB64-17.5'		SP-SM	Wet, very dense, fine to coarse SAND with silt. Gray, weak petroleum hydrocarbon odor, no discoloration.	Wet

Well Detail

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 9/8/2006
Date Finished: 9/8/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
SB64 / 01MW43

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Loading Rack

Drilling Co./Driller:	Cascade / James
Drilling Method:	Hollow-stem Auger
Location:	5' South and 170' East of NW Corner of Headquarters Building
Surface Condition:	Pea Gravel
Total Depth:	23.5
First GW Depth:	8

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20										
21	22 27 30	0.0	100		SB64-20'		ML	Moist, hard SILT with some clay, micaceous, low plasticity. Dark gray with dark brown natural organic specks, no petroleum hydrocarbon odor, no discoloration.	Mst	
22										
23	31 50/6"	0.0	100		SB64-22.5'		SM	Wet, very dense, silty fine to medium silty SAND, occasional coarse sand, micaceous. Dark gray, no petroleum hydrocarbon odor, no discoloration.	Wet	
24										
25								Boring terminated at 23.5 feet below ground surface. Two-inch diameter monitoring well installed as depicted above right, using PVC, 0.010 slot screen, 10-12 silica sand, and bentonite chips. Groundwater was encountered at 8 feet below ground surface during drilling. Boring was completed as monitoring well 01MW403.		
26										
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40										

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

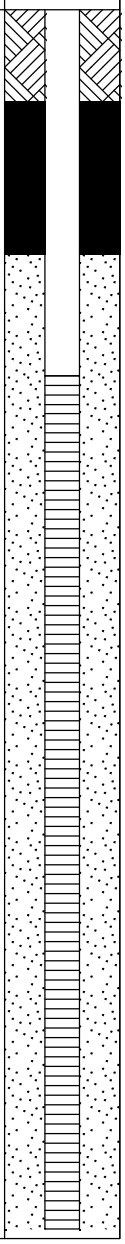
Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-stem Auger
Location:	60' North and 10' West of NW Corner of Headquarters Building
Surface Condition:	Concrete
Total Depth:	22.75
First GW Depth:	17.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content
0							CONC	Concrete (8 inches)	
1							SM	(Soil Cuttings: Moist, silty SAND. Brown. Fill)	
2									
3	6 7 7	0.0	100		B68-2.5		SM	Moist, medium dense, silty fine to medium SAND. Gray to olive-gray with brown mottling, no hydrocarbon odor or discoloration.	Mst
4									
5	7 11 10	0.0	100		B69-5		SM	Moist, medium dense, silty fine to medium SAND. Gray, no hydrocarbon odor or discoloration.	Mst
6									
7									
8	7 8 10	0.0	75		B68-7.5		SM	Moist, medium dense, silty fine to medium SAND. Gray, no hydrocarbon odor or discoloration.	Mst
9									
10							SM	Moist, medium dense, silty fine to medium SAND. Gray, no hydrocarbon odor or discoloration.	
11	7 10 16	1.1	100		B68-10		ML	Moist, stiff to very stiff, SILT with plant material. Dark brown, intertidal odor, no discoloration.	Mst
12									
13	5 7 9	0.0	100		B68-12.5		ML	Moist, stiff to very stiff, SILT with fine sand, with plant material. Gray, intertidal odor, no discoloration.	Mst
14									
15									
16	3 4 6	995	100		B68-15		SM	Moist, loose, silty fine to medium SAND and some plant material. Blue gray, strong hydrocarbon odor.	Mst
17									▽
18	3 6 6	400	75		B68-17.5		SP-SM	Wet, medium dense, fine to coarse SAND with silt. Gray, strong hydrocarbon odor.	▼Mst
19									
20									



SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 11/29/2006
Date Finished: 11/29/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
B68 / 01MW47

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-stem Auger
Location:	60' North and 10' West of NW Corner of Headquarters Building
Surface Condition:	Concrete
Total Depth:	22.75
First GW Depth:	17.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20										
21	2 2 2	260	75		B68-20		SP-SM	Wet, loose, fine to coarse SAND with silt, micaceous. Dark gray, strong hydrocarbon odor.	Wet	
22										
	50/3	50	15				SP-SM		Wet	
23					B68-22.5			Obstruction encountered at 22.7 feet (Tunnel over Sewer?)		
24								Boring terminated at 22.75' below ground surface. Two-inch diameter monitoring well installed as depicted above right, using PVC, 0.010 slot screen, 10-12 silica sand, and bentonite chips.		
25										
26										
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39										
40										

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-stem Auger
Location:	55' North and 10' West of NW Corner of Headquarters Building
Surface Condition:	Concrete
Total Depth:	26.5
First GW Depth:	17.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							CONC	Concrete (8 inches)		
1										
2										
3										
4										
5								See Boring Log for B68 / 01MW47 for stratigraphy from 0 to 22.5' bgs.		
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17									▽	
18										
19										
20										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 11/29/2006
Date Finished: 11/29/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
B68A

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-stem Auger
Location:	55' North and 10' West of NW Corner of Headquarters Building
Surface Condition:	Concrete
Total Depth:	26.5
First GW Depth:	17.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20								See Boring Log for B68 / 01MW47 for stratigraphy from 0 to 22.5' bgs.		
21										
22										
23										
24										
25	6 7 10	3.5 - 6.0			B68A-25		SM	Wet, medium dense, silty fine to coarse SAND with fine rounded gravel, interbedded with silt. Olive gray. Wood in the sampler shoe.	Wet	
26							WOOD	Auger encountered timbers at approximately 26 feet (Tunnel over Sewer). Boring terminated due to refusal.		
27										
28										
29										
30										
31										
32										
33										
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35										
36										
37										
38										
39										
40										

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade
Drilling Method:	Hollow-stem Auger
Location:	70' North and 80' East of NW Corner of Headquarters Building
Surface Condition:	Concrete
Total Depth:	38
First GW Depth:	30

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							CONC	Concrete (8 inches)		
3	4 11 11	0.0	100		B69-02.5		SM	Moist, medium dense, silty SAND with trace fine gravel. Brown, no hydrocarbon odor.	Mst	
6	4 4 7	0.0	100		B69-06		SM	Moist, medium dense, silty SAND with trace fine gravel. Brown, no hydrocarbon odor.	Mst	
8	11 14 12		100		B69-09		SM	Moist, medium dense, silty SAND with trace fine gravel. Brown, no hydrocarbon odor.	Mst	
11	11 14 12	0.0	100		B69-11		SM	Moist, medium dense, silty SAND with trace fine gravel. Brown with orange mottling, no hydrocarbon odor.	Mst	
15	32 50/6	0.0	80		B69-15		SM	Moist, very dense, silty SAND with trace fine gravel. Brown, no hydrocarbon odor.	Mst	
18	50/6	0.6	33		B69-17.5		SM	Moist, very dense, silty SAND. Gray, no hydrocarbon odor.	Mst	

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 11/30/2006
Date Finished: 11/30/2006
Logged By: RAH
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
B69 / 01MW48

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade
Drilling Method:	Hollow-stem Auger
Location:	70' North and 80' East of NW Corner of Headquarters Building
Surface Condition:	Concrete
Total Depth:	38
First GW Depth:	30

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20	50/6	0.1	60		B69-20		ML	Moist, very hard, SILT. Gray, no hydrocarbon odor.	Mst	
21										
22										
23	50/6	2.7	60		B69-23		ML	Moist, very hard, SILT. Gray to blue, no hydrocarbon odor.	Mst	
24										
25	50/6	4.0	60		B69-25		ML	Moist, very hard, SILT. Gray to blue, no hydrocarbon odor.	Mst	
26									▼	
27										
28	50/6	11.5	60		B69-28		SM	Moist, very dense, silty SAND. Dark gray, slight hydrocarbon odor, slight discoloration.	Mst	
29										
30	50/6	2.4	60		B69-30		SM	Wet, very dense, silty SAND. Dark gray, slight hydrocarbon odor, slight discoloration.	▽ Wet	
31										
32										
33	50/6	0.0	60		B69-33		ML	Wet, very hard, SILT. Dark gray, no hydrocarbon odor.	Wet	
34										
35	32				B69-35		SM	Damp, very dense, silty SAND. Dark gray, no hydrocarbon odor.	Dp	
36	50/6	0.0								
37										
38	50/6	0.0			B69-39		SM ML	Damp, very dense, silty SAND. Dark gray, no hydrocarbon odor. Damp, very hard, SILT, dark gray, no hydrocarbon odor. Boring terminated at 38 feet below ground surface. Two-inch diameter monitoring well installed as depicted above right, using PVC, 0.010 slot screen, 10-12 silica sand, and bentonite chips.	Dp	
39										
40										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 11/30/2006
Date Finished: 11/30/2006
Logged By: RAH
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
B69 / 01MW48

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade
Drilling Method:	Hollow-stem Auger
Location:	70' North and 45' East of NW Corner of Headquarters Building
Surface Condition:	Concrete
Total Depth:	28.5
First GW Depth:	17

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							CONC	Concrete (8 inches)		
5	10 10 10	0.0	90		B70-05		ML	Moist, very stiff, fine sandy SILT with trace gravel. Reddish tan, no hydrocarbon odor.	Mst	
10	9 13 17	1.6	100		B70-10		ML	Moist, hard, fine sandy SILT. Reddish tan with iron mottling, no hydrocarbon odor.	Mst	
13	39 50/6	271	100		B70-13		SM	Moist, very dense, silty fine SAND. Reddish tan, gray below 13', weak hydrocarbon odor.	Mst	
15	29 33 37	4.7	30		B70-15		SM	Moist, very dense, silty fine SAND. Gray, very faint hydrocarbon odor.	Mst	
17									▽	
18	50/5	2.5	100		B70-18		SP-SM	Wet, very dense, fine to medium SAND with silt. Gray, no hydrocarbon odor.	Wet	
20										

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade
Drilling Method:	Hollow-stem Auger
Location:	70' North and 45' East of NW Corner of Headquarters Building
Surface Condition:	Concrete
Total Depth:	28.5
First GW Depth:	17

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20	50/6	3.3	100		B70-20		SP-SM	Wet to waterbearing, very dense, fine to medium SAND with silt, gray, very faint hydrocarbon odor	Wet	
21										
22										
23	42 50/6		100		B70-23		ML	Moist, very hard, SILT. Gray, very faint hydrocarbon odor.	Wet	
24										
25	50/6	0.4	100		B70-25		SM	Moist, very dense, silty fine SAND. Gray, no hydrocarbon odor.	▼ Wet	
26										
27										
28	39 50/5	1.8	50		B70-28		ML	Moist, very hard, SILT with trace fine sand. Gray, no hydrocarbon odor.	Wet	
29								Boring terminated at 28.5 feet below ground surface. Two-inch diameter monitoring well installed as depicted above right, using PVC, 0.010 slot screen, 10-12 silica sand, and bentonite chips.		
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

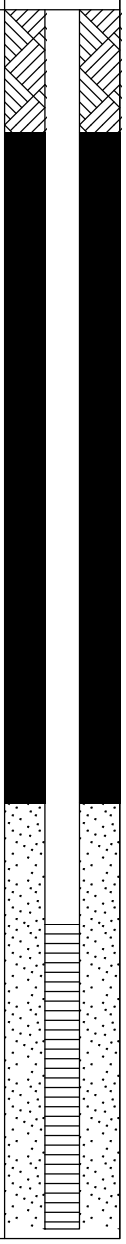
Drilling Co./Driller:	Cascade
Drilling Method:	Hollow-stem Auger
Location:	60' North and 60' West of NW Corner of Headquarters Building
Surface Condition:	Concrete
Total Depth:	33
First GW Depth:	22.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							CONC	Concrete (10 inches)		
5	7 8 11	2.3	100		B71-05		SM	Moist, loose to medium dense, very silty fine SAND. Reddish tan, no hydrocarbon odor.	Mst	
6							ML	Moist, medium stiff, fine sandy SILT with coarse gravel. Gray, very faint hydrocarbon odor.		
10	17 21 27	0.0	100		B71-11		ML	Moist, hard, fine sandy SILT. Gray with orange mottling, very faint hydrocarbon odor.	Mst	
15	22 31 32	0.0	100		B71-16		SM	Damp, very dense, very silty fine to medium SAND. Reddish tan, no hydrocarbon odor.	Dp	
18	27 32 40	0.6	100		B71-18		SM	Damp, very dense, very silty fine to medium SAND. Reddish tan, no hydrocarbon odor.	Mst	
19							ML	Moist, very hard, fine sandy SILT. Reddish tan to blue gray with mottling, very faint hydrocarbon odor.		



SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 12/21/2006
Date Finished: 12/21/2006
Logged By: DMB
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
B71 / 01MW50

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade
Drilling Method:	Hollow-stem Auger
Location:	60' North and 60' West of NW Corner of Headquarters Building
Surface Condition:	Concrete
Total Depth:	33
First GW Depth:	22.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20	50/6	0.2	100				ML	Moist, very hard, fine sandy SILT. Reddish tan, no hydrocarbon odor.	Mst	
21										
22									▼	
23	42 50/3	0.1	50		B71-23		SM	Wet to waterbearing, very dense, silty fine to medium SAND. Gray, no hydrocarbon odor.	Wet	
24										
25	50/6	0.8	100		B71-25		ML	Damp, very hard, SILT with fine sand. Gray, no hydrocarbon odor.	Dp	
26										
27										
28	40 50/6	0.1	80		B71-28		ML	Moist, very hard, fine sandy SILT. Gray, no hydrocarbon odor.	Mst	
29										
30	25 31 32	1.2	100		B71-31		ML	Moist, very hard, fine sandy SILT. Gray, no hydrocarbon odor.	Mst	
31										
32										
33	50/6	0.0	100		B71-33		ML WOOD	Wet, very hard, fine sandy SILT, reddish tan to gray with mottling, very faint petroleum odor. Timber in tip of sampler.	Wet	
34								Boring terminated at 33 feet below ground surface. Two-inch diameter monitoring well installed as depicted above right, using PVC, 0.010 slot screen, 10-12 silica sand, and bentonite chips.		
35										
36										
37										
38										
39										
40										

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade
Drilling Method:	Hollow-stem Auger
Location:	55' North and 100' West of NW Corner of Headquarters Building
Surface Condition:	Concrete
Total Depth:	41.5
First GW Depth:	30

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							CONC	8" concrete pavement		
5	5 5 5	0.0	80		B72-05		SM	Moist, medium dense, silty SAND, with silt-rich interbeds. Reddish tan, no hydrocarbon odor.	Mst	
10	10 12 15	0.0	100		B72-11		ML	Moist, very stiff, sandy SILT. Reddish tan with iron mottling, no hydrocarbon odor.	Mst	
13	9 12 18	0.0	100		B72-13		SM	Moist, dense, silty fine SAND. Tan, no hydrocarbon odor.	Mst	
16	16 19 24	0.0	100		B72-16		SM	Moist, dense, silty SAND, fine to very fine sand. Light gray, very faint hydrocarbon odor.	Mst	
18	14 26 22	0.0	100		B72-18		SM	Moist, dense, silty SAND, fine to very fine sand. Light gray, very faint hydrocarbon odor.	Mst	

Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade
Drilling Method:	Hollow-stem Auger
Location:	55' North and 100' West of NW Corner of Headquarters Building
Surface Condition:	Concrete
Total Depth:	41.5
First GW Depth:	30

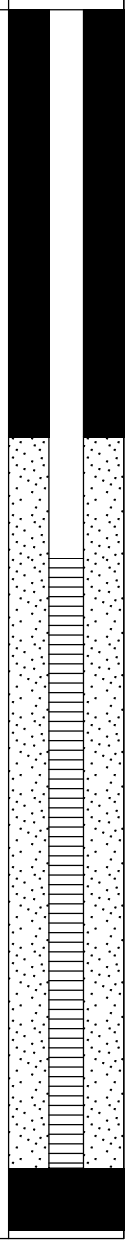
Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content
20									
21	9 29 22	0.0	100		B72-21		SM	Moist, dense, silty SAND, fine sand. Light gray, very faint hydrocarbon odor.	Mst
22									
23	9 29 31	0.0	100		B72-23		ML	Moist, very hard, SILT. Gray, no hydrocarbon odor.	Mst
24									
25									▼
26	9 12 18	0.0	100		B72-26		ML	Moist, hard, very fine sandy SILT. Gray, no hydrocarbon odor.	Mst
27									
28	9 7 10	0.0	100		B72-28		ML	Moist, very stiff, silty very fine SAND interbedded with SILT (<0.5 inches thick). Gray, weak hydrocarbon odor.	Mst
29									
30									▽
31	9 17 22	0.0	100		B72-31		SM	Wet to waterbearing, dense, silty fine SAND. Gray, very faint hydrocarbon odor.	Wet
32									
33	12 50/6	0.0	100		B72-33		SM	Wet to waterbearing, very dense, silty very fine to fine SAND. Gray, weak hydrocarbon odor.	Wet
34									
35									
36	9 12 18	0.0	100		B72-36		SP-SM	Wet to waterbearing, dense, fine to medium SAND with silt, interbedded with silty fine sand (SM). Gray, very faint hydrocarbon odor.	Wet
37									
38	6 12 15	0.0	100		B72-38		ML	Moist, very stiff, fine sandy SILT, with trace plant material. Gray, very faint hydrocarbon odor.	Wet
39									
40									

Well Detail



Log of Exploratory Boring:

Notes
West Commodore Way Right-of-Way

Drilling Co./Driller:	Cascade
Drilling Method:	Hollow-stem Auger
Location:	55' North and 100' West of NW Corner of Headquarters Building
Surface Condition:	Concrete
Total Depth:	41.5
First GW Depth:	30

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
40										
41	12 15 17		100		B72-40		SP-SM	Wet to waterbearing, dense, fine to medium SAND with silt. Gray, very faint hydrocarbon odor.	Wet	
							ML	Moist, hard, very fine sandy SILT. Gray, no hydrocarbon odor.		
42								Boring terminated at 40 feet below ground surface. Two-inch diameter monitoring well installed as depicted above right, using PVC, 0.010 slot screen, 10-12 silica sand, and bentonite chips.		
43										
44										
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46										
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59										
60										

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-stem Auger
Location:	41' S, 44' W of NW corner of TOC headquarters.
Surface Condition:	Concrete
Total Depth:	28.5
First GW Depth:	20

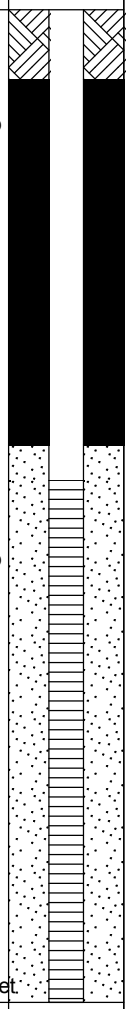
Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content
0									
1							SM	Concrete (6 inches thick) Silty SAND, gray, strong hydrocarbon odor. (Fill)	
2									
3	5				B81-02.5		SM	Damp, loose, silty, fine-grained SAND, trace gravel and 3-inch charcoal layer at 3 feet below ground surface (bgs), gray, strong hydrocarbon odor. (Fill)	Dmp
4	7	338	100						
5	7								
6	5				B81-05		ML	Moist, very stiff, fine-grained sandy SILT with trace gravel and organics (roots), brown, strong hydrocarbon odor. (Fill)	Mst
7	7	764	100						
8	9								
9									
10	14				B81-10		ML	Moist, loose, fine-grained sandy SILT, gray, strong hydrocarbon odor.	Mst
11	16	243	100						
12	19								
13									
14									▼
15	19				B81-15		ML		
16	20	24.0	100				SM	Damp, hard, SILT with some fine-grained sand and trace coal, brownish gray, faint hydrocarbon odor.	Dmp
17	23							Damp, dense, fine-grained SAND with silt, gray-brown, no hydrocarbon odor.	
18									
19									
20	21				B81-20				▽
21	26	19.7	100				SM	Wet, dense, fine-grained SAND with some silt, gray, no odor.	Wet
22	29								
23	23				B81-22.5		SM	Faint hydrocarbon odor.	Wet
24	27	19.0	100						
25	30								
26	26				B81-25		SM	Wet, dense, fine-grained SAND with some silt, gray, moderate hydrocarbon odor.	Wet
27	29	25.7	100						
28	29								
29	14				B81-27.5		SM		
30	23	32.7	100				ML	Wet, dense, fine-grained SAND with some silt, gray, faint hydrocarbon odor.	Mst-wet
31	21							Moist, hard, SILT with trace fine-grained sand, gray, faint hydrocarbon odor.	
32								Boring terminated at 28.5 feet bgs and converted to 2-inch-diameter PVC monitoring well 01MW59 with 0.010 slot screen from 13.5 to 28.5 feet bgs.	
33									
34									
35									

Well Detail



SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 11/17/2008
Date Finished: 11/17/2008
Logged By: JAB
Chk By: JAC
SES Project No.: 0440-004

BORING LOG
B82/ 01MW59

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Curtis
Drilling Method:	Hollow-Stem Auger
Location:	
Surface Condition:	Asphalt
Total Depth:	23
First GW Depth:	14

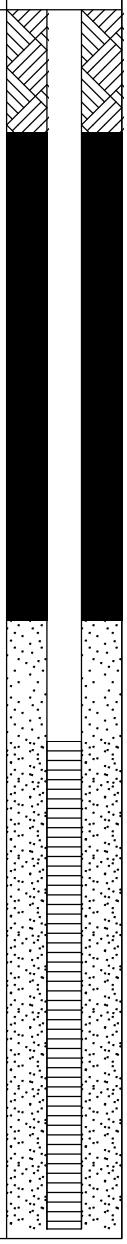
Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content
0					B117-02.5		CONC	Asphalt (3" thickness).	
1								Air knife down to 4' below ground surface (bgs).	
2		23.7	0				ML		Dmp
3									
4								Hand auger cuttings show damp SILT with some fine-grained sand and trace fine to coarse gravel, dark gray to medium brown, strong hydrocarbon odor (FILL).	
5	28				B117-05				
6	50/5	0.0	30				SP	Moist, very dense, fine-grained SAND with trace silt, gray, no hydrocarbon odor, faint sweet odor (5-95-0).	Mst
7									
8									
9									
10					B117-10				
11	27 50/6	0.0	75				ML	Moist, hard SILT with some fine-grained sand, gray with medium brown mottling, faint hydrocarbon odor (85-15-0).	Mst
12									
13	50/6	0.0	75		B117-12.5		SM	Moist, very dense, silty fine-grained SAND, gray, no hydrocarbon odor (40-60-0).	Mst
14									▽
15	50/6	0.0	100		B117-15		SP	Wet, very dense fine to medium-grained SAND with some silt, brown, faint hydrocarbon odor (10-90-0).	Wet
16									
17									
18	50/6	0.0	100		B117-17.5		SP	Wet, very dense, fine-grained SAND with trace silt, brown to gray, faint hydrocarbon odor (5-95-0).	Wet
19									
20									

Well Detail



SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 7/23/2009
Date Finished: 8/3/2009
Logged By: JAB
Chk By:
SES Project No.: 0440-004-20

BORING LOG
B117/01MW66

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Curtis
Drilling Method:	Hollow-Stem Auger
Location:	
Surface Condition:	Asphalt
Total Depth:	23
First GW Depth:	14

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20	50/6	0.0	100		B117-20		SP	Wet, very dense, fine-grained SAND with trace silt, brown grading to gray, faint hydrocarbon odor (5-95-0).	Wet	
21										
22										
23	50/6	0.0	100		B117-22.5		ML	Dry, hard SILT, gray, no hydrocarbon odor (98-2-0).	Dry	
24								Boring terminated at 23' bgs. Monitoring well 01MW66 screened from 12' to 22' bgs with 2-inch-diameter PVC 0.010 slot screen.		
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										

Log of Exploratory Boring:

Notes
Monitoring well installed at a 45° angle below TOC Holdings. Headquarters facility. Sample intervals show true vertical depth based on 15-foot auger at a 45° angle.

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-Stem Auger
Location:	17' North of Southeast corner of TOC Holdings Headquarters, 2' E of Southeast corner of TOC Holdings Headquarters
Surface Condition:	Concrete
Total Depth:	24
First GW Depth:	12

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							CONC	Concrete (0.5' thickness).		
1		228.4			B118-01			(Surface sample collected). Damp SAND with silt, dark gray, free product in sediment, strong hydrocarbon odor (25-75-0).	Dmp	
2										
3							FILL			
4		118.4	100		B118-04			Moist to wet, fine-grained SAND with silt, dark gray, free product evident at top of sample, strong hydrocarbon odor (30-70-0).	Mst	
5										
6										
7					B118-07.5		SM	Damp to moist, silty fine-grained SAND grading to silty fine-grained SAND with interbeded silt zones. Light brown to dark gray. Strong hydrocarbon odor (45-55-0).		
8										
9										
10										
11		19.2 7.9	100 10		B118-11		SM	Moist, silty fine-grained SAND, medium brown, faint hydrocarbon odor (45-55-0).	Mst	
12									▽	
13		10.4	25		B118-13		SP	Wet, fine-grained SAND with some silt, brown, no hydrocarbon odor (20-80-0).	Wet	
14		6.7	100		B118-14.5		SP	Wet, fine-grained SAND with some silt, brown, no hydrocarbon odor (10-90-0).	Wet	
15										
16		4.3	100		B118-16.5		SP	Wet, fine-grained SAND with trace silt, medium gray, no hydrocarbon odor (5-95-0).	Wet	
17										
18		4.3	100		B118-18		SP	Wet, fine-grained SAND with trace silt, medium gray, moderate hydrocarbon odor (5-95-0).	Wet	
19										
20					B118-19.5		SP			

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 7/23/2009
Date Finished: 7/23/2009
Logged By: JAB
Chk By:
SES Project No.: 0440-004-20

BORING LOG
B118/01MW67

Log of Exploratory Boring:

Notes
Monitoring well installed at a 45° angle below TOC Holdings. Headquarters facility. Sample intervals show true vertical depth based on 15-foot auger at a 45° angle.

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-Stem Auger
Location:	17' North of Southeast corner of TOC Holdings Headquarters, 2' E of Southeast corner of TOC Holdings Headquarters
Surface Condition:	Concrete
Total Depth:	24
First GW Depth:	12

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20		1.8	100				SP	Wet, fine-grained SAND with trace silt, medium gray, faint hydrocarbon odor (5-95-0).	Wet	
21					B118-21.5					
22		4.6	100				SP	Wet, fine-grained SAND with trace silt, dark gray, faint hydrocarbon odor (5-95-0).	Wet	
23					B118-23.5					
24		0.0	100				SP / ML	Wet, fine-grained SAND with trace silt, medium gray, no hydrocarbon odor (5-95-0). Moist SILT with trace sand, gray, no hydrocarbon odor (95-5-0). Boring terminated at 24' bgs. Monitoring well 01MW67 screened from 9' to 24' bgs with 2-inch-diameter PVC 0.010 slot screen.	Wet	
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-Stem Auger
Location:	2' North of Northeast corner of TOC Holdings Headquarters, 15.5' East of Northeast corner of TOC Holdings Headquarters.
Surface Condition:	Asphalt
Total Depth:	22
First GW Depth:	15

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							CONC	Asphalt (0.5' thickness).		
1							FILL	Air Knifed to 6' below ground surface (bgs). Slag from 0.5' to 1' bgs.		
2										
3										
4										
5										
6	50/6"	42.3	100		B119-06		ML	Dry, hard SILT with some sand and trace fine gravel, gray, strong hydrocarbon odor (85-15-0).	Dry	
7										
8										
9										
10	33				B119-10.5					
11	30 31	498	100				SP	Damp, dense, fine-grained SAND with some silt, gray, strong hydrocarbon odor (15-85-0).	Dmp	
12										
13										
14										
15	17				B119-16				▽	
16	26 29	902	100				SM	Wet, medium dense, silty fine-grained SAND, gray strong hydrocarbon odor, slight sheen (45-55-0).	Wet	
17					B119-18					
18	25 26 31	140	100				SM	Wet, medium dense, silty fine-grained SAND, gray strong hydrocarbon odor, slight sheen (45-55-0).	Wet	
19							ML	Sharp contact with wet, stiff, SILT with some sand, gray, strong hydrocarbon odor (85-15-0).		
20										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 7/23/2009
Date Finished: 7/23/2009
Logged By: JAB
Chk By:
SES Project No.: 0440-004-20

BORING LOG
B119/01MW68

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-Stem Auger
Location:	2' North of Northeast corner of TOC Holdings Headquarters, 15.5' East of Northeast corner of TOC Holdings Headquarters.
Surface Condition:	Asphalt
Total Depth:	22
First GW Depth:	15

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20	19 20 23	124	100		B119-21		SP	Wet, well-graded, fine-grained SAND with trace silt, gray, strong hydrocarbon odor (5-95-0).	Wet	
21							ML	Moist, hard SILT with trace sand, gray, strong hydrocarbon odor (95-5-0).		
22								Boring terminated at 22' bgs. Monitoring well 01MW68 screened from 7' to 22' bgs with 2-inch-diameter PVC 0.010 slot screen.		
23										
24										
25										
26										
27										
28										
29										
30										
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										

Log of Exploratory Boring:

Notes
Monitoring well installed at a 45° angle below TOC Holdings. Headquarters facility. Sample intervals show true vertical depth based on 15-foot auger at a 45° angle.

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

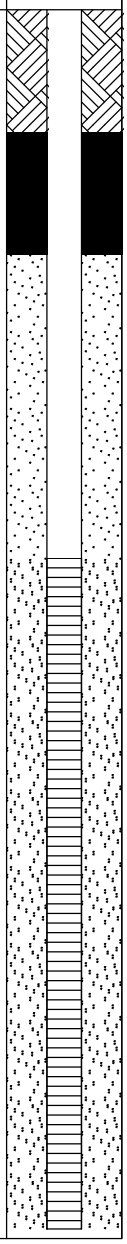
Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-Stem Auger
Location:	
Surface Condition:	Concrete
Total Depth:	24
First GW Depth:	13

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content
0							CONC	Concrete (0.5' thickness).	
1								Hand auger to approximately 2' below ground surface (bgs), exposing pipes and footings. Auger cutings wet from possible previous pipe leak, no hydrocarbon odor.	
2									
3									
4		3.0	100		B120-04		FILL	Wet (from pipes) SILT with some sand and trace, fine rounded gravel (fill), brown, no hydrocarbon odor (75-20-5).	Wet
5									
6									
7					B120-07.5				
8		4.3	10				SM	Poor recovery. Moist, fine- grained sandy SILT, gray, no hydrocarbon odor (70-30-0).	Mst
9									
10									
11		3.8	0					No recovery.	
12									
13		4.3	50		B120-13		SP	Wet, fine-grained SAND with some silt, gray, no hydrocarbon odor (10-90-0).	▽ Wet
14					B120-14.5				
15		2.5	100				SP	Wet, fine-grained SAND with some silt, gray, no hydrocarbon odor (10-90-0).	
16					B120-16.5				
17		1.3	100				SP	Wet, fine-grained SAND with some silt, gray, no hydrocarbon odor (10-90-0).	
18									
19									
20									

Well Detail



SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 7/24/2009
Date Finished: 7/24/2009
Logged By: JAB
Chk By:
SES Project No.: 0440-004-20

BORING LOG
B120/01MW69

Log of Exploratory Boring:

Notes
Monitoring well installed at a 45° angle below TOC Holdings. Headquarters facility. Sample intervals show true vertical depth based on 15-foot auger at a 45° angle.

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Drilling Co./Driller:	Cascade / Steve
Drilling Method:	Hollow-Stem Auger
Location:	
Surface Condition:	Concrete
Total Depth:	24
First GW Depth:	13

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
20–24								Boring terminated at 24' bgs due to heaving. Monitoring well 01MW69 screened from 9' to 24' bgs with 2-inch-diameter PVC 0.010 slot screen.		

25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 7/24/2009
Date Finished: 7/24/2009
Logged By: JAB
Chk By:
SES Project No.: 0440-004-20

BORING LOG
B120/01MW69

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / David
Drilling Method:	Hollow-stem Auger
Location:	29' North of 01MW21 and 4' East of 01MW21
Surface Condition:	Gravel
Total Depth:	9
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0										
1		0.1			B121-0.5		SM	(Boring hand cleared to 1' below ground surface [bgs]). Silty, fine- to medium-grained SAND, some fine to coarse gravel, some debris (40-50-10)(Fill).		
2										
3	8				B121-02.5		ML	Dry, very stiff, SILT, some fine-grained sand, brown (85-15-0).		
4	9 16	1.2	90				SM	Moist, medium dense, fine-grained SAND with silt, gray, some wood waste at approximatley 4 feet bgs (30-70-0).		
5					B121-04.5			Damp, hard, SILT with fine-grained sand, brown (80-20-0).		
6	3 12 24		100				ML			
7										
8	2 5 7	0.8	50		B121-07.5		ML	Same as above, medium gray (85-15-0).		
9										
10								Boring terminated at 9' bgs. Boring backfilled with bentonite chips to surface grade.		
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 12/28/2009
Date Finished: 12/28/2009
Logged By: JAB
Chk By: JAC
SES Project No.: 0440-004

BORING LOG
B121

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / David
Drilling Method:	Hollow-stem Auger
Location:	24' South of 01MW23 and 5' East of 01MW23
Surface Condition:	Gravel
Total Depth:	10.5
First GW Depth:	5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							FILL	Gravel.		
1		0.3			B122-0.5		SM	Moist, dense, silty, fine- to coarse-grained SAND with fine to coarse gravel, trace organics (40-50-10) (Fill).		
2										
3	8 9 20		5		B122-02.5		SM	Moist, medium dense, silty, fine- to coarse-grained SAND, some fine gravel, brown (45-45-10).		
4										
5	3 5 6	815	80		B122-04.5		ML	Moist, stiff, SILT, some fine-grained sand, light brown (90-10-0).	▽	
6							SM	Wet, medium dense, silty, fine- to coarse-grained SAND, trace fine gravel, brown (40-55-5).		
7										
8	5 9 10	45.6	80		B122-07.5		ML	Moist to wet, stiff, SILT, some fine-grained sand (90-10-0).		
9					B122-09			Wet, medium dense, fine-grained SAND, some silt, brown (10-90-0).		
10	6 8 10	26.7	50				SP	Same as above, trace silt, gray (5-95-0).		
11								Boring terminated at 10.5' below ground surface. Boring backfilled with bentonite chips to surface grade.		
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 12/28/2009
Date Finished: 12/28/2009
Logged By: JAB
Chk By: JAC
SES Project No.: 0440-004

BORING LOG
B122

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / David
Drilling Method:	Hollow-stem Auger
Location:	6' South of 01MW23 and 20' East of 01MW23
Surface Condition:	Gravel
Total Depth:	10.5
First GW Depth:	8

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							FILL	Gravel.		
1		0.3			B123-0.5		SM	Silty, fine- to coarse-grained SAND, some fine to coarse gravel, brown (40-50-10).		
2										
3	9 5 11	0.3	75		B123-02.5		ML	Damp, stiff, SILT, trace fine-grained sand and coarse gravel, gray (90-5-5).		
4										
5	4 5 5	1,166	100		B123-04.5		ML	Moist, stiff, SILT with fine-grained sand, light brown, visible free product on soil cuttings (80-20-0).		
6										
7										
8	5 10 15	9.9	80		B123-07.5		ML	Very stiff, SILT, trace fine-grained sand (95-5-0).	▽	
9					B123-09		SP	Wet, medium dense, fine-grained SAND with trace silt, brown (5-95-0).		
10	7 7 9	11.7	75							
11								Boring terminated at 10.5' below ground surface. Boring backfilled with bentonite chips to surface grade.		
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
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TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 12/28/2009
Date Finished: 12/28/2009
Logged By: JAB
Chk By: JAC
SES Project No.: 0440-004

BORING LOG
B123

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / David
Drilling Method:	Hollow-stem Auger
Location:	29' South of GP13
Surface Condition:	Gravel
Total Depth:	10.5
First GW Depth:	9

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0										
		0.5			B124-0.5		FILL	Gravel.		
1							SM	Damp, silty, fine- to coarse-grained SAND, some fine to coarse gravel, trace organics, trace white flecks that resemble paint chips, dark brown (45-45-10) (Fill).		
2										
					B124-02.5					
3	5									
	7	0.4	100				ML	Moist, medium stiff, SILT, some fine-grained sand, light brown with red mottling, faint hydrocarbon odor (80-20-0).		
4	6									
					B124-04.5		SM	Damp, medium dense, silty, fine-grained SAND, brown, no hydrocarbon odor (40-60-0).		
5	5									
	7		100				SP	Damp, medium dense, fine-grained SAND, some silt, brown, no hydrocarbon odor (15-85-0).		
6	6									
7										
					B124-07.5					
8	1							Same as above, wet at 9' below ground surface (bgs), trace silt from 9' to 10.5' bgs.		
	12	1.8	50							
9	18				B124-09		SP		▽	
	3									
10	8	1.1	25							
	13									
11								Boring terminated at 10.5' bgs. Boring backfilled with bentonite chips to surface grade.		
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 12/28/2009
Date Finished: 12/28/2009
Logged By: JAB
Chk By: JAC
SES Project No.: 0440-004

BORING LOG
B124

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / David
Drilling Method:	Hollow-stem Auger
Location:	134' South of 01MW37 and 83' East of 01MW37
Surface Condition:	Gravel
Total Depth:	10.5
First GW Depth:	7.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0					B125-0.5		FILL	Gravel.		
1		0.0					SM	Wet, silty, fine- to coarse-grained SAND with fine to coarse gravel, trace organics, dark brown (40-50-10) (Fill).		
2										
3	4 4 8	0.3	100		B125-02.5		ML	Wet, very stiff, SILT, trace fine-grained sand, brown with orange mottling (95-5-0).		
4										
5	3 5 8	0.4	100		B125-04.5		ML	Moist, very stiff, SILT, some fine-grained sand grading to silty SAND, orange mottling (70-30-0).		
6										
7										
8	7 7 11	0.3	50		B125-07.5			Wet, dense, fine-grained SAND, some silt, brown, no hydrocarbon odor (10-90-0).	▽	
9					B125-09		SP	Same as above, trace silt (5-95-0).		
10	7 11 11	0.0	20							
11								Boring terminated at 10.5' below ground surface. Boring backfilled with bentonite chips to surface grade.		
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 12/28/2009
Date Finished: 12/28/2009
Logged By: JAB
Chk By: JAC
SES Project No.: 0440-004

BORING LOG
B125

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / David
Drilling Method:	Hollow-stem Auger
Location:	22' South of 01MW48 and 8' West of 01MW48
Surface Condition:	Gravel
Total Depth:	10.5
First GW Depth:	7.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0					B126-0.5		FILL	Gravel.		
1		0.0					SM	Wet, fine- to coarse-grained SAND with silt and fine to coarse gravel, trace organics, no hydrocarbon odor (25-60-15).		
2										
3	3 5 5	0.0	100		B126-02.5		ML	Wet, stiff, SILT, trace fine-grained sand, gray, no hydrocarbon odor (95-5-0).		
4										
5	7 10 11	0.1	80		B126-04.5		SM	Moist, medium dense, silty, fine-grained SAND, orange mottling (50-50-0).		
6							SP	Medium dense, fine-grained SAND, trace silt, brown, no hydrocarbon odor (5-95-0).		
7									▽	
8	5 7 8	0.2	90		B126-07.5		SM	Wet, medium dense, silty, fine-grained SAND, brown (55-45-0).		
9					B1216-09					
10	2 6 8		20				SP	Medium dense, fine-grained SAND, trace silt, brown with orange mottling (5-95-0).		
11								Boring terminated at 10.5' below ground surface. Boring backfilled with bentonite chips to surface grade.		
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 12/28/2009
Date Finished: 12/28/2009
Logged By: JAB
Chk By: JAC
SES Project No.: 0440-004

BORING LOG
B126

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / David
Drilling Method:	Hollow-stem Auger
Location:	20' North of 01MW43 and 18' West of 01MW43
Surface Condition:	Concrete
Total Depth:	14
First GW Depth:	7.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0								Concrete (1' thickness).		
1		175			B127-01.5		SM	Moist, silty, fine- to coarse-grained SAND, some fine to coarse gravel (40-50-0) (Fill).		
2										
3	2 1 1	22.4	90		B127-02.5		SM	Moist, very loose, silty, fine-grained SAND, dark gray, strong hydrocarbon odor, visible sheen on sampler (45-55-0).		
4										
5	1 1 2		100		B127-04.5		ML	Moist, soft, SILT, trace fine-grained sand, gray (95-5-0).		
6							SM	Moist, very loose, silty, fine-grained SAND, dark brown, strong hydrocarbon odor (55-45-0).		
7									▽	
8	1 2 3	494	100		B127-07.5		SM	Wet, loose, silty, fine-grained SAND, gray, strong hydrocarbon odor (55-45-0).		
9										
10	1 3 6	40.7	100		B127-09.5		ML	Moist, medium stiff, SILT with some sand, gray (85-15-0).		
11							SP	Wet, loose, fine-grained SAND, trace silt, gray, strong hydrocarbon odor, visible sheen on sampler (5-95-0).		
12										
13	1 4 9	816	50		B127-12.5		SP	Same as above, medium dense, no sheen (5-95-0).		
14										
15								Boring terminated at 14' below ground surface. Boring backfilled with bentonite chips to surface grade.		
16										
17										
18										
19										
20										

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / David
Drilling Method:	Hollow-stem Auger
Location:	22' South of 01MW26 and 3' West of 01MW26
Surface Condition:	Concrete
Total Depth:	14
First GW Depth:	12.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0								Concrete (1' thickness).		
1		148			B128-01.5		SM	Moist to wet, silty, fine- to coarse-grained SAND with fine to coarse subrounded gravel, gray, strong hydrocarbon odor (30-45-25) (Fill).		
2										
3	2 3 5	4.5	80		B128-02.5		ML	Moist, medium stiff, SILT with fine-grained sand, medium gray with some orange mottling (85-15-0).		
4										
5	4 5 10	13.6	100		B128-04.5		ML	Moist, stiff, SILT with fine-grained sand, medium gray with some orange mottling. Three inch sand lens at approximatley 5.5' below ground surface (bgs) underlain by red mottled silt.		
6										
7										
8	8 9 10	1,577	100		B128-07.5		SP-SM	Moist, stiff, silty, fine-grained SAND to SAND with silt, gray with some orange mottling (40-60-0).		
9										
10	1 4 14		25		B128-09.5		SP	Moist, very stiff, fine-grained SAND, trace silt, gray with orange mottling (5-95-0).		
11										
12									▽	
13	7 9 12	2,054	50		B128-12.5		SP	Same as above, very stiff, wet, gray (5-95-0).		
14								Boring terminated at 14' bgs. Boring backfilled with bentonite chips to surface grade.		
15										
16										
17										
18										
19										
20										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 12/29/2009
Date Finished: 12/29/2009
Logged By: JAB
Chk By: JAC
SES Project No.: 0440-004

BORING LOG
B128

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / David
Drilling Method:	Hollow-stem Auger
Location:	9.5' East of 01MW66
Surface Condition:	Asphalt
Total Depth:	16.5
First GW Depth:	15

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							CONC	Asphalt (3" thickness).		
1		2.8			B129-0.5		SM	Moist, silty, fine- to medium-grained SAND, some fine to coarse subrounded gravel, brown (35-45-20) (Fill).		
2										
3	6 4 5	107	95		B129-02.5		SM	Moist, loose, silty, fine- to coarse-grained SAND, trace fine gravel and wood fragments, gray, faint to moderate hydrocarbon odor, visible sheen on soil (45-50-5).		
4										
5	2 3 8	8.5	50		B129-05		SM	Moist, medium dense, silty, fine-grained SAND, brown, moderate hydrocarbon odor (35-65-0).		
6										
7										
8	3 7 8	3.6			B129-07.5		SM ML	Wet, medium dense, silty, fine-grained SAND, orange mottling, faint hydrocarbon odor (40-60-0) Moist, stiff, SILT, some fine-grained sand, gray, faint hydrocarbon odor (80-20-0).		
9										
10	4 5 6	2.6	100		B129-09.5		SP	Moist, medium dense, fine-grained SAND, some silt, gray with some orange mottling, moderate hydrocarbon odor (10-90-0).		
11										
12										
13	6 9 10	2.5	50		B129-12.5		SP	Moist, medium dense, fine-grained SAND with trace silt, gray, faint hydrocarbon odor (5-95-0).		
14										
15					B129-15				▽	
16	4 11 12	2.0	100				SP	Wet, medium dense, fine-grained SAND with trace silt, gray, no hydrocarbon odor (5-95-0).		
17								Boring terminated at 16.5' below ground surface. Boring backfilled with bentonite chips to surface grade.		
18										
19										
20										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 12/29/2009
Date Finished: 12/29/2009
Logged By: JAB
Chk By: JAC
SES Project No.: 0440-004

BORING LOG
B129

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / David
Drilling Method:	Hollow-stem Auger
Location:	3.5' East of 01MW59
Surface Condition:	Concrete
Total Depth:	16.5
First GW Depth:	12.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							CONC	Concrete (6" thickness).		
1		12.4			B130-0.5		ML	Moist, SILT with fine- and coarse-grained SAND and trace wood fragments, gray, no hydrocarbon odor (70-30-0) (Fill).		
2										
3	6 2 3	75.3	100		B130-02.5		ML	Wet, soft, SILT with fine-grained sand and trace wood fragments, gray grading to dark brown, strong hydrocarbon odor (80-15-5).		
4										
5	1 2 2	85.3	80		B130-04.5		SM	Wet, very loose, silty, fine-grained SAND, trace subrounded fine gravel, gray, strong hydrocarbon odor (40-55-5).		
6										
7										
8	2 3 4	18.0	100		B130-07.5		SM	Wet, loose, silty, fine- to coarse-grained SAND, trace fine gravel, brown, faint hydrocarbon odor (50-45-5).		
9							ML	Moist, medium stiff, SILT with fine-grained sand, light brown with orange mottling, faint hydrocarbon odor (60-40-0).		
10	2 4 4	8.2	100		B130-09.5		SM	Moist, loose, silty, fine-grained SAND, gray, gray with orange mottling from 10' to 11' below ground surface (bgs), no hydrocarbon odor (50-50-0).		
11										
12									▽	
13	2 5 5	6.1	50		B130-12.5		SM	Wet, loose, silty, fine- to medium-grained SAND, gray, no hydrocarbon odor (45-55-0).		
14							ML	Wet, stiff, SILT with sand, brown with orange mottling (65-35-0).		
15	3 5 7	4.1	80		B130-15		ML	Same as above, trace sand, gray with orange mottling (95-5-0).		
16										
17								Boring terminated at 16.5' bgs. Boring backfilled with bentonite chips to surface grade.		
18										
19										
20										

SOUND ENVIRONMENTAL STRATEGIES
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TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 12/29/2009
Date Finished: 12/29/2009
Logged By: JAB
Chk By: JAC
SES Project No.: 0440-004

BORING LOG
B130

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	6.5' North of 01MW23 and 12.5' West of 01MW23
Surface Condition:	Concrete
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							CONC	Concrete (4" thickness).		
		67			B138-0.5			Moist, silty SAND interbedded with silt, gray, stong hydrocarbon odor (50-50-0).		
1		79.1			B138-01					
2			50							
		181			B138-02.5			Becomes wet (40-60-0).		
3										
							SM			
4		86.5			B138-04					
					B138-04.5					
5		720			B138-05					
6		791	100		B138-06					
7					B138-07		ML	Moist, SILT with fine-grained sand, gray, strong hydrocarbon odor (70-30-0).		
8		60.9			B138-08			Boring terminated at 8' bgs. Boring backfilled with bentonite chips to surface grade.		
9										
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/1/2010
Date Finished: 3/1/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B138

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	6' North of 01MW23 and 7.5' East of 01MW23
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0					B139-0.5		SM	Wet, fine- to coarse-grained SAND with gravel and silt, light brown, strong hydrocarbon odor (15-75-10). (Fill).	Wet	
1		6.19			B139-01		SM	Moist, silty, fine- to medium-grained SAND, light brown with orange mottling, strong hydrocarbon odor (45-55-0).	Mst	
2			80							
		6.51			B139-02.5		ML	Moist, SILT with sand, gray, strong hydrocarbon odor (70-30-0).		
3										
4		26.9			B139-04					
		7.01			B139-04.5		SM	Moist, silty, fine-grained SAND, trace fine gravel, gray, moderate hydrocarbon odor (35-60-5).	Mst	
5		22.9			B139-05					
							ML	Moist, SILT with fine-grained sand, gray with some orange mottling, strong hydrocarbon odor (75-25-0).		
6		715	100		B139-06					
7		443			B139-07		SM	Wet, silty, fine-grained SAND, dark gray, strong hydrocarbon odor, product visible in sampler (40-60-0).	Wet	
8		530			B139-08			Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
9										
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
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TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/1/2010
Date Finished: 3/1/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B139

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	5.5' North of 01MW41 and 2.5' West of 01MW41
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		26.0			B140-0.5		GP	Wet, fine to coarse GRAVEL with fine- to coarse-grained sand and trace silt, strong hydrocarbon odor (5-40-55).	Wet	
1					B140-01					
								Wet, silty, fine- to medium-grained SAND with trace gravel, brown, strong hydrocarbon odor, product visible in sampler (40-45-5).		
2			80							
		35.3			B140-02.5		SM			
3										
4										
		123			B140-04.5			Moist, SILT with trace sand, gray, strong hydrocarbon odor (95-5-0).		
5		14.2			B140-05		ML			
6			100		B140-06				Mst	
							SM	Moist, silty, fine-grained SAND, gray, strong hydrocarbon odor (35-65-0).		
7		14.3			B140-07				Dmp	
							ML	Damp, SILT with trace sand, brown, strong hydrocarbon odor, free product visible in sampler (95-5-0).		
8		12.3			B140-08					
								Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
9										
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/1/2010
Date Finished: 3/1/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B140

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	11.5' South of 01MW41 and 3.5' West of 01MW41
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		19.5			B141-0.5			Moist. silty, fine- to coarse-grained SAND with trace gravel, medium brown, moderate hydrocarbon odor (40-55-5).	Mst	
1		273			B141-01		SM			
2			100		B141-02					
3							ML	Damp, SILT with trace fine-grained sand, light brown, moderate hydrocarbon odor (95-5-0).	Dmp	
4		301			B141-04					
		782			B141-04.5			Moist, silty, fine-grained SAND, light brown with orange mottling, strong hydrocarbon odor (45-55-0).	Mst	
5		401			B141-05					
6		94.7	100		B141-06		SM			
7		311			B141-07					
8		168			B141-08					
9								Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
10										
11										
12										
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SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/1/2010
Date Finished: 3/1/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B141

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	9' South of 01MW23 and 10' East of 01MW23
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0										
		12.1			B142-0.5		SM	Wet, fine- to coarse-grained SAND with fine gravel and trace silt, light brown, strong hydrocarbon odor (5-80-15).	Wet	
1		11.2			B142-01				Mst	
								Moist, SILT with fine-grained sand, gray, strong hydrocarbon odor (80-20-0).		
2		807	80		B142-02		ML			
3										
								Wet, silty, fine-grained SAND, gray with brown product staining, strong hydrocarbon odor (40-60-0).	Wet	
4		83.1			B142-04					
					B142-04.5					
5		853			B142-05					
							SM			
6		231			B142-06					
7		275			B142-07					
8		19.0			B142-08					
								Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
9										
10										
11										
12										
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15										

SOUND ENVIRONMENTAL STRATEGIES
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TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/1/2010
Date Finished: 3/1/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B142

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	10' South of 01MW23 and 10' West of 01MW23
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		501			B143-0.5		FILL	Wet, fine- to coarse-grained SAND with fine to coarse gravel and trace silt, medium brown, strong hydrocarbon odor (5-60-25).	Wet	
1		307					ML	Moist, SILT with trace fine-grained sand, gray, strong hydrocarbon odor (95-5-0).	Mst	
2			90							
		605			B143-02.5					
3								Wet, silty, fine-grained SAND, gray, strong hydrocarbon odor, sheen visible on water (20-80-0).	Wet	
4		497			B143-04					
		323			B143-04.56		SM			
5		247			B143-05					
6		404	100		B143-06					
7		440			B143-07				Mst	
							ML	Moist, SILT with trace fine-grained sand, strong hydrocarbon odor (95-5-0).		
8		21.1			B143-08					
9								Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/1/2010
Date Finished: 3/1/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B143

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	4' South of 01MW22 and 7' West of 01MW22
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		4.81			B144-0.5		SM	Moist, silty, fine-grained SAND, light brown, no hydrocarbon odor (40-60-0).	Mst	
1							ML	Damp, SILT with trace sand, moderate hydrocarbon odor (95-5-0).	Dmp	
2			70							
		9.23			B144-02.5		SM	Moist, silty, fine-grained SAND, light brown with gray mottling, moderate hydrocarbon odor (40-60-0).	Mst	
3										
4		6.01			B144-04					
					B144-04.5			Wet, silty, fine- to medium-grained SAND, gray, no hydrocarbon odor (45-55-0).	Wet	
5		3.01			B144-05			Orange mottling.		
6			90		B144-06		SM			
7		8.63			B144-07					
8		6.11			B144-08					
								Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
9										
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/1/2010
Date Finished: 3/1/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B144

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	3.5' South of 01MW22 and 13.5' East of 01MW22
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		11.4			B145-0.5		FILL	Silty, fine- to coarse-grained SAND with fine to coarse gravel, gray, faint hydrocarbon odor (25-45-30).		
1									Dmp	
								Damp, silty, fine- to coarse-grained SAND, gray, strong hydrocarbon odor, free product visible (40-60-0).		
2			50							
		12.62			B145-02.5					
3		163					SM			
4		901			B145-04					
		949			B145-04.5					
5		183			B145-05					
6		81.1	100		B145-06				Dry	
								Dry, SILT with trace sand, gray with orange mottling, strong hydrocarbon odor (95-5-0).		
7		75.0			B145-07		ML	Wet, gray.		
8		71.4			B145-08					
								Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
9										
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/1/2010
Date Finished: 3/1/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B145

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	1' South of 01MW22 and 34' East of 01MW22
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0										
		67			B146-0.5		FILL	Silty, fine- to coarse-grained SAND with gravel, dark brown, strong hydrocarbon odor (35-45-20).		
1		84.5								
2			90				ML	Moist, SILT with fine- to coarse-grained sand, light brown, strong hydrocarbon odor (70-30-0).		
					B146-02.5				Mst	
3		61.7			B146-03					
							SM	Moist, silty, fine-grained SAND with trace fine gravel, strong hydrocarbon odor (40-55-5).		
4		57.3			B146-04					
					B146-04.5			Wet, SILT with some fine-grained sand, dark gray, moderate hydrocarbon odor (90-10-0).	Wet	
5		54.5			B146-05					
6		100	100		B146-06		ML			
7		109			B146-07					
8		8.0			B146-08			Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
9										
10										
11										
12										
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14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/1/2010
Date Finished: 3/1/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B146

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	22' South of 01MW22 and 35' East of 01MW22
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		78.1			B147-0.5		FILL	Silty, fine- to coarse-grained SAND with fine to coarse gravel, dark brown, no hydrocarbon odor (30-50-20).		
1							ML	Moist, SILT with fine-grained sand, light brown, moderate hydrocarbon odor (80-20-0).	Mst	
2			60							
		87.6			B147-02.5					
3							SM	Wet, silty, fine-grained SAND, gray, strong hydrocarbon odor, free product visible (45-55-0).		
4		852			B147-04					
		1,290			B147-04.5					
5					B147-05				Dmp	
							ML	Damp, SILT with fine-grained sand, light brown with orange mottling, moderate hydrocarbon odor (75-25-0).		
6			100		B147-06				Wet	
								Wet, silty, fine-grained SAND, gray, strong hydrocarbon odor (45-55-0).		
7		281			B147-07		SM		Wet	
8		92.4			B147-08					
9								Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/1/2010
Date Finished: 3/1/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B147

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	17' North of 01MW21 and 7' East of 01MW21
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		70			B148-0.5		FILL	Moist, silty, fine- to coarse-grained SAND with some fine to coarse gravel and trace organics, dark brown, faint hydrocarbon odor (30-60-10).	Mst	
1										
2			70				SM	Moist, silty, fine- to medium-grained SAND, gray, strong hydrocarbon odor (40-60-0).		
		66.0			B148-02.5					
3								Damp, SILT with fine-grained sand, light brown, strong hydrcarobn odor (75-25-0).		
4		64.3			B148-04				Dmp	
		75.0			B148-04.5					
5		623			B148-05					
							ML			
6			100		B148-06			Grading to silty SAND.		
7		58.4			B148-07					
8		52.7			B148-08			Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
9										
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/1/2010
Date Finished: 3/1/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B148

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	16' North of 01MW21 and 14.5' West of 01MW21
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		60.0			B149-0.5		FILL	Moist, fine- to coarse-grained SAND with silt and some fine gravel, brown, strong hydrocarbon odor (30-60-10).	Mst	
1										
2			80		B149-02.5		SM	Moist, silty, fine- to coarse-grained SAND, gray, strong hydrocarbon odor (40-60-0).		
3										
4		59.8			B149-04			Wet.		
		89.5			B149-04.5					
5					B149-05					
6		70.2	100		B149-06		SM	Moist, sandy SILT, light brown, moderate hydrocarbon odor (65-35-0).		
7					B149-07		SM	Wet, silty, fine-grained SAND, gray, moderate hydrocarbon odor (30-70-0).	Wet	
8		62.4			B149-08			Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
9										
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/1/2010
Date Finished: 3/1/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B149

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	1.5' South of 01MW21 and 12.5' West of 01MW21
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0					B150-0.5			Damp, SILT with some fine- to medium-grained SAND, gray, no hydrocarbon odor (85-15-0).	Dmp	
1										
2			20							
3							ML			
4					B150-04			Moderate hydrocarbon odor.		
					B150-04.5					
5		53.0			B150-05					
6		48.9	100		B150-06					
7					B150-07		SM	Wet, silty, fine-grained SAND, light brown, faint hydrocarbon odor.	Wet	
8		47			B150-08					
								Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
9										
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/1/2010
Date Finished: 3/1/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B150

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	4' South of 01MW21 and 7' East of 01MW21
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		32.3			B151-0.5		FILL	Wet, silty, fine- to coarse-grained SAND with fine to coarse gravel, brown, faint hydrocarbon odor (30-50-20).	Wet	
1										
2			30							
		323			B151-02.5		ML	Damp, SILT with fine-grained sand, faint hydrocarbon odor (80-20-0).	Dmp	
3										
4		72.6			B151-04					
					B151-04.5		SM	Wet, silty, fine-grained SAND, trace fine gravel, light brown to gray with orange mottling, faint hydrocarbon odor (40-55-5).	Wet	
5		53.0			B151-05					
6		52.5	100		B151-06				Dmp	
							ML	Damp, SILT with trace fine-grained sand, faint hydrocarbon odor (90-10-0).		
7		40			B151-07					
8		62.2			B151-08			Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
9										
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/1/2010
Date Finished: 3/1/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B151

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	5' South of 01MW21 and 27' East of 01MW21
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		67.4			B152-0.5		FILL	Silty Fine- to coarse-grained SAND with fine to coarse gravel (30-60-10).		
1							ML	Damp, SILT with fine-grained sand, light brown, strong hydrocarbon odor (75-25-0).	Dmp	
2			20							
					B152-02.5		SM	Moist, silty, fine-grained SAND, gray, strong hydrocarbon odor (40-60-0).	Mst	
3										
4		307			B152-04.5			Moist, SILT with fine-grained sand, gray, strong hydrocarbon odor (75-25-0).		
5					B152-05		ML			
6			100		B152-06					
7					B152-07				Wet	
							SM	Wet, silty, fine-grained SAND, gray, strong hydrocarbon odor, sheen visible (20-80-0).		
8					B152-08					
9								Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/1/2010
Date Finished: 3/1/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B152

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	2' South of 01MW23 and 2' West of 01MW23
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		48.9			B153-0.5		FILL	Wet, fine- to coarse-grained SAND with silt and trace fine gravel, light brown, strong hydrocarbon odor (10-85-5).	Wet	
1										
2			50				ML	Moist, SILT with fine-grained sand and trace fine gravel, gray, strong hydrocarbon odor (70-25-5).		
		143			B153-02.5				Mst	
3		46.1								
4		283			B153-04					
					B153-04.5		SM	Wet, silty, fine- to coarse-grained SAND with trace fine gravel, gray with orange mottling, strong hydrocarbon odor (45-50-5).	Wet	
5		652			B153-05				Mst	
								Moist, silty, fine-grained SAND, gray grading to light brown, strong hydrocarbobn odor (45-55-0).		
6			100		B153-06		SM			
7		102			B153-07			Visible sheen on sampler.		
8		501			B153-08					
9								Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/2/2010
Date Finished: 3/2/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B153

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	1.5' South of 01MW23 and 15.5' East of 01MW23
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		73.5			B154-0.5		FILL	Wet, silty, fine- to coarse-grained SAND with some fine to coarse gravel, light brown, strong hydrocarbon odor (40-45-15).	Wet	
2		65.5	60		B154-2.5		SM	Wet, fine- to coarse-grained SAND with silt, gray, strong hydrocarbon odor (30-70-0).		
3		62.2					SM	Moist, silty, fine-grained SAND, gray, strong hydrocarbon odor (45-55-0).		
4		55.9			B154-04					
		55.4			B154-04.5			Moist, silty, fine-grained SAND with trace fine gravel, gray, strong hydrocarbon odor (40-55-5).		
5					B154-05				Wet	
6		51.6	100		B154-06		ML	Wet, SILT with trace fine-grained sand, gray, strong hydrocarbon odor (95-5-0).	Mst	
7		75.8			B154-07					
8		61.1			B154-08		SM	Wet, SILT with trace fine-grained sand, gray, strong hydrocarbon odor (95-5-0).		
9								Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
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TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/2/2010
Date Finished: 3/2/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B154

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	2.5' South of 01MW41 and 5' East of 01MW41
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0										
		0.3			B155-0.5		SM	Moist, silty, fine- to coarse-grained SAND with fine to coarse gravel, dark brown, faint hydrocarbon odor (30-50-20).	Mst	
1										
2			50							
		51.6			B155-02.5		SM	Moist, silty, fine- to medium-grained SAND with trace fine gravel, gray, no hydrocarbon odor (40-55-5).		
3										
4		49.8			B155-04					
		50.7			B155-04.5			Wet, SILT with fine-grained sand, gray with orange mottling, no hydrocarbon odor (85-15-0).		
5		85.2			B155-05		ML			
6		59.4			B155-06				Wet	
7		62.5			B155-07		SM	Moist, silty, fine-grained SAND, light brown with orange mottling, strong hydrocarbon odor (40-60-0).	Mst	
8		55.3			B155-08					
								Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
9										
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
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TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/2/2010
Date Finished: 3/2/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B155

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	22' South of 01MW41 and 9' East of 01MW41
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		36.0			B156-0.5		FILL	Wet, fine- to coarse-grained SAND with fine to coarse gravel and some silt, strong hydrocarbon odor (10-70-20).	Wet	
1										
2			60				SM	Moist, silty, fine- to coarse-grained SAND, brown, strong hydrocarbon odor (40-60-0).		
		106			B156-02.5				Mst	
3								Moist, SILT with trace sand and fine to coarse gravel, gray, strong hydrocarbon odor (90-5-5).		
4		140			B156-04		ML			
		69.5			B156-04.5					
5		100			B156-05			Moist, SILT with fine-grained sand, gray with orange mottling, strong hydrocarbon odor (70-30-0).		
6		62.9	100		B156-06		ML			
7		52.7			B156-07					
8		88.2			B156-08			Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
9										
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
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TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/2/2010
Date Finished: 3/2/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B156

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	21' South of 01MW41 and 11.5' West of 01MW41
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		39.5			B157-0.5		SM	Wet, silty, fine- to coarse-grained SAND with fine gravel, brown, moderate hydrocarbon odor (25-55-20).	Wet	
1										
2		37.9			B157-02.5		SM	Moist, silty, fine-grained SAND with trace fine gravel, gray, moderate hydrocarbon odor (45-50-5).	Mst	
3		61.2			B157-03					
4		901			B157-04		SM	Wet, silty, fine- to coarse-grained SAND, brown, strong hydrocarbon odor (45-55-0).		
		111			B157-04.5					
5		474			B157-05					
6		148			B157-06		ML	Wet, SILT with some fine-grained sand, gray, strong hydrocarbon odor, free product visible (90-10-0).	Wet	
7					B157-07		SM	Wet, silty, fine-grained SAND, gray with orange mottling, strong hydrocarbon odor, free product visible (45-55-0).		
8		43.1			B157-08					
9								Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
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TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/2/2010
Date Finished: 3/2/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B157

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	8' North of 01MW22 and 4' East of 01MW22
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		28.1	60		B158-0.5		SM	Wet, silty, fine- to coarse-grained SAND with fine to coarse gravel, trace rootlets, brown, strong hydrocarbon odor (30-50-20).	Wet	
1										
2		154			B158-02.5					
3							WOOD	Large chunk of wood.		
4		117			B158-04			Wet, silty, fine-grained SAND, gray, strong hydrocarbon odor, free product visible (40-60-0).		
		42.4			B158-04.5					
5		658			B158-05		SM			
6		249			B158-06					
7		98.2			B158-07			Moist, silty, fine-grained SAND, gray, strong hydrocarbon odor, free product visible (40-60-0).	Mst	
8		42.8			B158-08					
9								Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/2/2010
Date Finished: 3/2/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B158

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	12.5' South of 01MW22 and 3' East of 01MW22
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		25.8	60		B159-0.5		FILL	Wet, fine- to coarse-grained SAND with fine to coarse gravel and silt, brick fragments, faint hydrocarbon odor (20-60-20).	Wet	
1										
2		29.7			B159-02.5					
3							ML	Dry, SILT with trace sand, light brown, faint hydrocarbon odor (95-5-0).	Dry	
4		29.4			B159-04					
					B159-04.5		ML	Wet, SILT with sand, gray, faint hydrocarbon odor (60-40-0).	Wet	
5		30.3			B159-05					
6		32.2			B159-06		ML	Dry, SILT with trace fine-grained sand, light brown, no hydrocarbon odor (95-5-0).	Dry	
7		44.1			B159-07		SM	Wet, fine-grained SAND with silt, gray, faint hydrocarbon odor (25-75-0).	Wet	
8		43.9			B159-08			Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
9										
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
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TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/2/2010
Date Finished: 3/2/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B159

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	13' South of 01MW22 and 23.5' East of 01MW22
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0										
1		62.4			B160-0.5		FILL	Moist, silty, fine- to coarse-grained SAND with fine to coarse gravel, trace rootlets, dark brown (30-50-20).	Mst	
2			100					Wet, silty, fine- to medium-grained SAND, gray with orange mottling, moderate hydrocarbon odor (30-70-0).		
3		38.0			B160-02.5				Wet	
4		35.7								
5		33.5			B160-04		SM			
6		28.5			B160-04.5					
7		25.7			B160-05					
8		30.9			B160-06					
9		32.7			B160-07		ML	Dry, SILT with sand, light brown with orange mottling, faint hydrocarbon odor (80-20-0).	Dry	
10					B160-08			Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
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TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/2/2010
Date Finished: 3/2/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B160

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	12.5' South of 01MW22 and 42.5' East of 01MW22
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		0.0			B161-0.5		FILL	Moist, silty, fine- to coarse-grained SAND with fine to coarse gravel, trace rootlets. Strong hydrocarbon odor (30-50-20).	Mst	
1		851							Wet	
							SM	Wet, silty, fine- to coarse-grained SAND, dark brown, strong hydrocarbon odor (40-60-0).		
2			90							
		1,016			B161-02.5					
3		75.5					ML	Dry, cracked SILT with trace fine-grained sand, light brown, moderate hydrocarbon odor (95-5-0).	Dry	
4		222			B161-04					
		141			B161-04.5			Wet, SILT with fine-grained sand stringer, gray with some orange mottling, strong hydrocarbon odor.	Wet	
5		72.6			B161-05					
6		1,346	100		B161-06		ML	Free product visible.		
7		101			B161-07					
8		65.1			B161-08			Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
9										
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
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TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/2/2010
Date Finished: 3/2/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B161

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	7' North of 01MW21 and 37.5' East of 01MW21
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0										
1		24.6			B162-0.5		FILL	Silty, fine- to coarse-grained SAND with fine to coarse gravel, trace rootlets, brown, strong hydrocarbon odor (30-50-20).		
2			80					Wet, silty, fine- to medium-grained SAND, gray with some orange mottling, strong hydrocarbon odor, free product visible (45-55-0).		
3		30.3			B162-02.5				Wet	
4		873			B162-04		SM			
		583			B162-04.5					
5					B162-05					
6		328			B162-06					
7		69.7			B162-07				Dmp	
							ML	Damp, SILT with trace fine-grained sand, gray, strong hydrocarbon odor (95-5-0).		
8		94.0			B162-08					
9								Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
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TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/2/2010
Date Finished: 3/2/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B162

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	7' North of 01MW21 and 17.5' East of 01MW21
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		37.0			B163-0.5		FILL	Moist, silty, fine- to coarse-grained SAND with some fine to coarse gravel, trace rootlets, faint hydrocarbon odor (35-55-10).	Mst	
1		34.0								
2			80				ML	Moist, SILT with some fine-grained sand, gray with orange mottling, faint hydrocarbon odor (70-30-0).		
3		397			B163-02.5					
4		90.5			B163-04		SM	Wet, silty, fine-grained SAND, gray, moderate hydrocarbon odor (40-60-0). Strong hydrocarbon odor, sheen visible on sampler.		
5					B163-04.5 B163-05					
6		22.6			B163-06		ML	Dry, SILT with fine-grained sand, light brown with some orange mottling, faint hydrocarbon odor (85-25-0).	Wet Dry	
7		15.0			B163-07					
8		14.0			B163-08		SM	Moist, silty, fine- to medium-grained SAND, gray, moderate hydrocarbon odor (40-60-0).	Mst	
9								Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
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TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/2/2010
Date Finished: 3/2/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B163

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	7' North of 01MW21 and 0.5' West of 01MW21
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		43.9	80		B164-0.5		FILL	Silty, fine- to coarse-grained SAND with fine to coarse gravel, trace rootlets, gray, strong hydrocarbon odor (30-40-30).		
1								Dry, SILT with fine-grained sand, light brown with orange mottling, strong hydrocarbon odor (80-20-0).		
2							ML			
		34.0			B164-02.5				Dry	
3		39.8			B164-03					
							SM	Silty, fine- to coarse-grained SAND, gray, strong hydrocarbon odor (40-60-0).		
4		36.2			B164-04					
		136			B164-04.5		SM	Silty, fine- to medium-grained SAND, gray with orange mottling, strong hydrocarbon odor, sheen visible on sampler (40-60-0).		
5		33.9			B164-05				Wet	
								Wet, SILT with fine-grained sand, gray, strong hydrocarbon odor (80-20-0)		
6					B164-06					
							SM			
7					B164-07					
8		101			B164-08			Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
9										
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
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TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/2/2010
Date Finished: 3/2/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B164

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	13.5' South of 01MW21 and 16.5' East of 01MW21
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		27.4	50		B165-0.5		FILL	Wet, silty, fine- to coarse-grained SAND with fine to coarse gravel, trace rootlets, brown, strong hydrocarbon odor, sheen visible on sampler (30-40-30).	Wet	
1										
2		28.6			B165-02.5					
3		45.3					SM	Silty, fine-grained SAND, gray, strong hydrocarbon odor (40-60-0).		
4					B165-04					
					B165-04.5			Wet to moist, SILT with some fine-grained sand, gray, faint hydrocarbon odor (90-10-0).		
5		52.8			B165-05					
6		40.3			B165-06		ML			
7		23.4			B165-07					
8		27.1			B165-08			Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
9										
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
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TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/2/2010
Date Finished: 3/2/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B165

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Frank
Drilling Method:	Geoprobe
Location:	12.5' South of 01MW21 and 4.5' West of 01MW21
Surface Condition:	Gravel
Total Depth:	8
First GW Depth:	None Encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		41.2			B166-0.5		FILL	Silty, fine- to coarse-grained SAND with fine to coarse gravel, brown, faint hydrocarbon odor (20-50-30).		
1								Silty, fine- to medium-grained SAND, gray with orange mottling, faint hydrocarbon odor (45-55-0).		
2		24.0			B166-02.5					
3		24.1					SM			
4					B166-04					
					B166-04.5					
5		25.4			B166-05				Mst	
								Moist, SILT with trace sand, gray, faint hydrocarbon odor (95-5-0).		
6					B166-06		ML			
7		28.7			B166-07				Wet	
							SM	Wet, silty, fine- to medium-grained SAND, gray, no hydrocarbon odor (40-60-0).	Mst	
8		29.8			B166-08		ML	Moist, SILT with trace fine-grained sand, gray, no hydrocarbon odor (95-5-0).		
								Boring terminated at 8' below ground surface. Boring backfilled with bentonite chips to surface grade.		
9										
10										
11										
12										
13										
14										
15										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 3/2/2010
Date Finished: 3/2/2010
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004

BORING LOG
B166

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Andy
Drilling Method:	Hollow-stem Auger
Location:	
Surface Condition:	Gravel
Total Depth:	24
First GW Depth:	10

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		6.82			B167-0.5		SM	(Hand cleared) Wet, gravelly, silty, fine- to coarse-grained SAND, fine to coarse gravel, gray, free product in sample, strong hydrocarbon odor (Fill) (40-40-20).		
5	5 6 6	27.9			B167-5.5		ML SM	Moist, stiff, SILT, trace fine-grained sand, light brown, faint hydrocarbon odor (95-5-0). Medium dense, silty, fine-grained SAND, light brown with gray mottling, faint hydrocarbon odor (40-60-0).		
10	4 6 10	1.4			B167-10.5		SP	Wet, medium dense, fine-grained SAND, some silt, gray, no hydrocarbon odor (10-90-0).	▽	
15	8 10 17	2.3			B167-15.5		SP	Same as above.		
17	17 18 20	2.34			B167-17.5		SP	Same as above, dense.		
20	19 20 23	2.47			B167-20.5		SP	Same as above, very dense (some heave when drilling).		
23	8 10 12	2.63			B167-23		SP ML	Same as above. Moist, very stiff, SILT, trace fine-grained sand, gray, no odor.		
24								Boring terminated at 24 feet below ground surface (bgs). Monitoring well 01MW72 was screened from 3 to 23 feet bgs with two-inch-diameter PVC with 0.010 slot screen, 2/12 silica sand from 2 to 24 feet bgs, and bentonite chips from 1 to 2 feet bgs, with a flush-mount monument.		

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Andy
Drilling Method:	Hollow-stem Auger
Location:	
Surface Condition:	Gravel
Total Depth:	24
First GW Depth:	10

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0		54.9			B168-0.5		SP-SM	(Hand cleared) Gravelly, silty, fine- to coarse-grained SAND, fine to coarse gravel, trace organics (piece of wood), gray, strong hydrocarbon odor (Fill) (30-50-20).		
5	7 9 12	123			B168-05.5		SM	Medium dense, silty, fine-grained SAND, light brown with some orange mottling, moderate hydrocarbon odor (45-55-0).		
10	10 10 11	643			B168-10		SM	Wet, medium dense, silty, fine-grained SAND, gray, heavy sheen on sample, strong hydrocarbon odor (45-55-0).	▽	
15	5 16 12	11.1			B168-15.5		SP	Wet, medium dense, SAND, trace silt, gray, strong hydrocarbon odor (5-95-0).		
18	5 12 20	22.7			B168-17.5		SP	Same as above, dense, sheen on sample.		
20	12 27 30	20.7			B168-20.5		SP	Same as above, very dense, no sheen on sample.		
21							ML	Moist, hard, SILT, trace sand, gray, moderate hydrocarbon odor (95-5-0).		
23	8 10 11	3.78			B168-23		ML	Moist, very stiff, SILT, trace sand, gray, no odor (95-5-0).		
24								Boring terminated at 24 feet below ground surface (bgs). Monitoring well 01MW73 was screened from 3 to 21.5 feet bgs with two-inch-diameter PVC with 0.010 slot screen, 2/12 silica sand from 2 to 24 feet bgs, and bentonite chips from 1 to 2 feet bgs, with a flush-mount monument.		

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Bulk Terminal Area
2737 West Commodore Way
Seattle, Washington

Date Started: 3/10/2010
Date Finished: 3/10/2010
Logged By: JAB
Chk By: JAC
SES Project No.: 0440-004

BORING LOG
B168/01MW73

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Andy
Drilling Method:	Hollow-stem Auger
Location:	
Surface Condition:	Gravel
Total Depth:	21.5
First GW Depth:	10

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0										
1		2.22			B169-0.5		SM	(Hand cleared) Wet, gravelly, silty, fine- to coarse-grained SAND, fine to coarse gravel, brown, no hydrocarbon odor (Fill) (30-40-30).		
2										
3										
4										
5	6						ML			
6	8	1,302			B169-5.5		SM	Damp, stiff, SILT, trace fine-grained sand, light brown, moderate hydrocarbon odor (95-5-0).		
7	8							Moist, medium dense, silty, fine-grained SAND, gray, strong hydrocarbon odor.		
8										
9										
10	4								▽	
11	8	11.4			B169-10.5		SM	Wet, medium dense, silty, fine-grained SAND, grading to fine- to medium-grained sand with silt, sheen on sample, strong hydrocarbon odor (40-60-0).		
12	8									
13										
14										
15	8				B169-15.5					
16	9	34.4					SP	Wet, medium dense, fine-grained SAND, trace silt, gray, moderate hydrocarbon odor (5-95-0).		
17	9									
18	8				B169-17.5		SP	Same as above, dense.		
19	19	137								
20	20									
21	3	4.51			B169-21		SP	Same as above.		
	14									
	20						ML			
22								Moist, hard, SILT, trace fine-grained sand, gray, faint hydrocarbon odor (95-5-0).		
23								Boring terminated at 21.5 feet below ground surface (bgs). Monitoring well 01MW74 was screened from 4 to 21.5 feet bgs with two-inch-diameter PVC with 0.010 slot screen, 2/12 silica sand from 2 to 21.5 feet bgs, and bentonite chips from 1 to 2 feet bgs, with a flush-mount monument.		
24										
25										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Bulk Terminal Area
2737 West Commodore Way
Seattle, Washington

Date Started: 3/10/2010
Date Finished: 3/10/2010
Logged By: JAB
Chk By: JAC
SES Project No.: 0440-004

BORING LOG
B169/01MW74

Log of Exploratory Boring:

Notes

Drilling Co./Driller:	Cascade / Andy
Drilling Method:	Hollow-stem Auger
Location:	
Surface Condition:	Gravel
Total Depth:	19
First GW Depth:	5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0–2		173			B170-0.5		ML	(Hand cleared) Moist, gravelly, sandy, SILT, fine- to coarse-grained sand and gravel, trace rootlets (Fill) (40-30-30).		
5–6	7 10 12	4.29			B170-5.5		SM	Wet, medium dense, silty, fine-grained SAND, brown, moderate hydrocarbon odor (50-50-0).	▽	
10–11	8 7 10	2.79			B170-10.5		SM	Wet, medium dense, silty, fine-grained SAND, brown with orange mottling, faint hydrocarbon odor (45-55-0).		
15–16	9 10 17	2.74			B170-15.5		SP	Wet, medium dense, fine- to coarse-grained SAND, trace silt, gray, no hydrocarbon odor (5-95-0).		
18	9 10 12	6.23			B170-17.5		ML	Very stiff, SILT, gray, no hydrocarbon odor (95-5-0).		
20–25								Boring terminated at 19 feet below ground surface (bgs). Monitoring well 01MW75 was screened from 3 to 18 feet bgs with two-inch-diameter PVC with 0.010 slot screen, 2/12 silica sand from 2 to 19 feet bgs, and bentonite chips from 1 to 2 feet bgs, with a flush-mount monument.		

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Bulk Terminal Area
2737 West Commodore Way
Seattle, Washington

Date Started: 3/10/2010
Date Finished: 3/10/2010
Logged By: JAB
Chk By: JAC
SES Project No.: 0440-004

BORING LOG
B170/01MW75

SoundEarth Strategies

Project:	TOC Holdings Co. Fac. No. 01-600
Project Number:	0440-004-22
Logged by:	EBF
Date Started:	3/25/2011
Surface Conditions:	Gravel
Well Location N/S:	3.5' South of Q7
Well Location E/W:	5.5' West of Q7
Reviewed by:	JAC
Date Completed:	3/25/2011

BORING LOG B176

Site Address: 2737 West Commodore Way, Seattle, Washington

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0					B176-0.5 (GRAB)	GM		**Boring hand-cleared to 3 feet below ground surface (bgs). Moist, silty, fine, sandy GRAVEL, brown, no hydrocarbon odor (25-25-50) (FILL).**	
						ML		**Moist, gravelly SILT, some fine sand, brown-gray, faint hydrocarbon odor (70-15-15).**	
				141	B176-02.5 (GRAB)	SM		**Moist, silty, fine SAND, gray, strong hydrocarbon odor (30-70-0).**	
5		2 1 6	15	13.0		SM-ML		**Moist, loose, fine sandy SILT to silty fine SAND, gray, hydrocarbon odor (55-45-0).**	
								Boring terminated at 6 feet bgs due to auger not properly decontaminated. Backfilled with bentonite chips.	
10									
15									

Drilling Co./Driller:	Cascade/Andy		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Hollow-Stem Auger		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Split-Spoon		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	6	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Fac. No. 01-600
Project Number:	0440-004-22
Logged by:	EBF
Date Started:	3/25/2011
Surface Conditions:	Gravel
Well Location N/S:	12' South of Q7
Well Location E/W:	7' West of Q7
Reviewed by:	JAC
Date Completed:	3/25/2011

BORING LOG | B177

Site Address: 2737 West Commodore Way
Seattle, Washington

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0				0.0	B177-0.5 (GRAB)	SM		**Standing surface water. Boring hand-cleared to 1-foot below ground surface (bgs). Wet, silty, fine to coarse SAND, some gravel, brick fragments, and organics, brown, no hydrocarbon odor (15-75-10) (FILL).**	
		5 9 15	60	7.4	B177-02.5	ML		**Moist, stiff, fine sandy SILT, increasing sand content towards bottom, gray with some oxidation, hydrocarbon odor, product at top of sampler (70-30-0).**	
		2 6 9	90	3.2	B177-04.5	ML		**Moist, SILT, trace fine sand, brown, no hydrocarbon odor (90-10-0).**	
5						SM-ML		**Moist, loose, silty fine SAND to sandy SILT, gray, no hydrocarbon odor (60-40-0).**	
		7 11 15	100	0.7	B177-06	SM		**Moist, loose, silty fine SAND, gray, no hydrocarbon odor (25-75-0).**	
		7 10 16	70	0.0	B177-08			**Moist, loose, silty fine SAND, gray, no hydrocarbon odor (20-80-0).**	
10								**Boring terminated at 9 feet bgs and backfilled with bentonite chips.**	
15									

Drilling Co./Driller:	Cascade/Andy		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Hollow-Stem Auger		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Split-Spoon		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	9	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Fac. No. 01-600
Project Number:	0440-004-22
Logged by:	EBF
Date Started:	3/25/2011
Surface Conditions:	Gravel
Well Location N/S:	10' North of J11
Well Location E/W:	11' East of J11
Reviewed by:	JAC
Date Completed:	3/25/2011

BORING LOG B178

Site Address: 2737 West Commodore Way
Seattle, Washington

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0					B178-0.5 (GRAB)	SM		**Wet, silty, gravelly, fine to coarse SAND, fine to coarse gravel, brick fragments, brown, no hydrocarbon odor (15-70-15) (FILL).**	
		6 5 5	5		B178-02.5	SM		**Wet, very loose, silty, fine to coarse SAND, some fine gravel, brown, no hydrocarbon odor (15-75-10).**	
5		3 3 3	5		B178-04.5	ML		**Wet, soft, fine sandy SILT, brown-gray, no hydrocarbon odor (70-30-0).**	
		3 6 7	75	50.7	B178-06			**Moist, stiff, fine sandy SILT, gray with orange oxidation, faint hydrocarbon odor (85-15-0).**	
		3 5 7	75	20.5	B178-08			**Moist, medium stiff, fine sandy SILT, brown with oxidation, no hydrocarbon odor. One-inch thick silty, fine SAND stringer at 8.4 feet bgs, with color change below to gray (80-20-0).**	
10								**Boring terminated at 9 feet bgs and backfilled with bentonite chips.**	
15									

Drilling Co./Driller:	Cascade/Andy		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Hollow-Stem Auger		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Split-Spoon		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	9	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Fac. No. 01-600
Project Number:	0440-004-22
Logged by:	EBF
Date Started:	3/25/2011
Surface Conditions:	Gravel
Well Location N/S:	0' North of J11
Well Location E/W:	19.5' East of J11
Reviewed by:	JAC
Date Completed:	3/25/2011

BORING LOG B179

Site Address: 2737 West Commodore Way
Seattle, Washington

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0					B179-0.5 (GRAB)	SM-SP		**Boring hand-cleared to 0.5 feet below ground surface (bgs). Wet, silty, gravelly SAND, fine to coarse gravel, brown, no hydrocarbon odor (15-70-15) (FILL).**	
		5 6 6	100	12.1	B179-02.5	ML		**Moist, medium stiff, fine sandy SILT, gray-brown with some orange oxidation, no hydrocarbon odor (80-20-0).**	
5		1 11 17	50	5.3	B179-04.5	ML		**Moist, very stiff, fine sandy SILT, some silty lenses, brown with oxidation, no hydrocarbon odor (70-30-0).**	
		8 9 10	50	174.4	B179-06	SM		**Moist, loose, silty fine SAND, brown, faint hydrocarbon odor (30-70-0).**	
		12 14 15	75	11.6	B179-08			**Moist, medium dense, silty, fine SAND, brown with some oxidation, no hydrocarbon odor (25-75-0).**	
10								**Boring terminated at 9 feet bgs and backfilled with bentonite chips.**	
15									

Drilling Co./Driller:	Cascade/Andy		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Hollow-Stem Auger		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Split-Spoon		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	9	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Fac. No. 01-600
Project Number:	0440-004-22
Logged by:	EBF
Date Started:	3/25/2011
Surface Conditions:	Gravel
Well Location N/S:	11' South of J11
Well Location E/W:	10' East of J11
Reviewed by:	JAC
Date Completed:	3/25/2011

BORING LOG B180

Site Address: 2737 West Commodore Way
Seattle, Washington

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0					B180-0.5 (GRAB)	SM-SP		**Wet, silty, gravelly, fine to coarse SAND, fine to coarse gravel, brown, no hydrocarbon odor (15-65-20).**	
		6 7 11	70	142.4	B180-02.5	ML		**Moist, stiff, fine sandy SILT, trace gravel, brown, faint hydrocarbon odor (65-30-5).**	
5		9 12 17	100	201.3	B180-04.5	ML		**Moist, very stiff, fine sandy SILT, gray, hydrocarbon odor. 2-inch thick fine SAND stringer at 5.4 feet bgs. Strong hydrocarbon odor in lower 6 inches (80-20-0).**	
		12 14 18	70	281	B180-06	SM		**Moist, medium dense, silty, fine SAND, gray, strong hydrocarbon odor (25-75-0).**	
		12 14 20	75	44.2	B180-08			**Moist, medium dense, silty, fine to medium SAND, gray with some oxidation, faint hydrocarbon odor (25-75-0).**	
10								**Boring terminated at 9 feet bgs and backfilled with bentonite chips.**	
15									

Drilling Co./Driller:	Cascade/Andy		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Hollow-Stem Auger		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Split-Spoon		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	9	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Fac. No. 01-600
Project Number:	0440-004-22
Logged by:	EBF
Date Started:	3/25/2011
Surface Conditions:	Gravel
Well Location N/S:	0' South of J11
Well Location E/W:	30.5' East of J11
Reviewed by:	JAC
Date Completed:	3/25/2011

BORING LOG B181

Site Address: 2737 West Commodore Way
Seattle, Washington

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0					B181-0.5 (GRAB)	SM		**Boring hand cleared to 0.5 feet below ground surface (bgs). Wet, silty. gravelly fine to coarse SAND, with brick fragments, brown, no hydrocarbon odor (20-70-10) (FILL).**	
		8 11 12	100	64.2	B181-02.5	ML		**Moist, stiff, fine sandy SILT, gray to brown with mottled oxidation, faint hydrocarbon odor (85-15-0).**	
5		8 14 21	100	50.4	B181-04.5	ML		**Moist, very stiff, fine sandy SILT, brown with oxidation (90-10-0).**	
		14 21 29	80	12.7	B181-06			**Moist, very stiff, fine sandy SILT, some fine sand lenses, gray with mottled oxidation, no hydrocarbon odor (80-20-0).**	
		12 18 21	70	11.0	B181-08	SM ML SM		**Moist, silty, fine SAND, brown, no odor.** **Moist, fine, sandy SILT, gray to brown with oxidation, no hydrocarbon odor (70-30-0).** **Moist, medium dense, silty, fine SAND, gray, no hydrocarbon odor (25-75-0).**	
10								**Boring terminated at 9 feet bgs and backfilled with bentonite chips.**	
15									

Drilling Co./Driller:	Cascade/Andy		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Hollow-Stem Auger		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Split-Spoon		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	9	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Fac. No. 01-600
Project Number:	0440-004-22
Logged by:	EBF
Date Started:	3/25/2011
Surface Conditions:	Gravel
Well Location N/S:	9' North of J11
Well Location E/W:	21' East of J11
Reviewed by:	JAC
Date Completed:	3/25/2011

BORING LOG B182

Site Address: 2737 West Commodore Way
Seattle, Washington

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0					B182-0.5 (GRAB)	SM-SP		**Boring hand-cleared to 0.5 feet below ground surface (bgs). Wet, silty, gravelly, fine to coarse SAND, fine gravel, brown, no hydrocarbon odor (20-65-15).**	
		6 7 7	80	48.4	B182-02.5	SM		**Moist, loose, silty fine SAND, gray-brown with mottled oxidation, hydrocarbon odor (30-70-0).**	
						SM-ML		**Moist, fine sandy SILT, brown with oxidation, hydrocarbon odor (60-40-0).**	
5		7 9 12	60	1.8	B182-04.5	ML		**Moist, stiff, fine sandy SILT, gray with mottled oxidation, faint hydrocarbon odor (80-20-0).**	
		6 7 8	70	9.6	B182-06	ML		**Moist, loose, fine sandy SILT, with fine sand lenses, brown with oxidation, no hydrocarbon odor (70-30-0).**	
		9 11 22	70		B182-08	SM		**Moist, silty fine SAND, gray, faint hydrocarbon odor (20-80-0).** **Moist, medium dense, silty fine SAND, with silt lenses, gray with oxidation, no hydrocarbon odor (20-80-0).**	
10								**Boring terminated at 9 feet bgs and backfilled with bentonite chips.**	
15									

Drilling Co./Driller:	Cascade/Andy		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Hollow-Stem Auger		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Split-Spoon		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	9	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project: Seattle Terminal 01-600
Project Number: 0440-004-22
Logged by: EBF
Date Started: 4/14/11
Surface Conditions: Concrete
Well Location N/S:
Well Location E/W:
Reviewed by: Draft
Date Completed: 4/14/11

BORING LOG B183 --

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			GRAB		B183-0.5	SM		**8" concrete cored prior to drilling and hand-cleared to 3' bgs. NAPL at concrete-soil interface. Moist, silty gravelly, fine-grained SAND with brick fragments (20-50-30). Brown, no hydrocarbon odor.**	
						SM		**Moist, silty fine-grained SAND (60-40-0). Gray, hydrocarbon odor.**	
			GRAB		B183-02.5	ML		**Moist, SILT with fine-grained sand (90-10-0). Gray, hydrocarbon odor.**	
5		9 15 26	75	124.4	B183-04.5	ML		**Moist, hard SILT with some fine-grained sand (90-10-0). Gray with some oxidation, hydrocarbon odor.**	
		19 27 28	90	148.3	B183-06	ML		**Moist, hard SILT with fine-grained sand, increasing sand content towards bottom of sample (80-20-0). Gray-brown, hydrocarbon odor.**	
		6	60	148.8	B183-08	ML		**Moist, hard SILT with fine-grained sand (80-20-0). Brown, hydrocarbon odor.**	
		17 34				SM		**Moist, dense, silty fine-grained SAND (25-75-0). Brown, hydrocarbon odor.**	
10								**Boring terminated at 9.5' bgs and backfilled with bentonite chips and capped with concrete.**	
15									

Drilling Co./Driller: Cascade/Jeremiah
Drilling Equipment: LA-HSA
Sampler Type: SPT
Hammer Type/Weight: 140 lbs
Total Boring Depth: 9.5 feet bgs
Total Well Depth: -- feet bgs
State Well ID No.: --

Well/Auger Diameter: inches
Well Screened Interval: -- feet bgs
Screen Slot Size: -- inches
Filter Pack Used: --
Surface Seal: --
Annular Seal: --
Monument Type: --

Notes/Comments:

SoundEarth Strategies

Project:	Seattle Terminal 01-600
Project Number:	0440-004-22
Logged by:	EBF
Date Started:	4/14/11
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	Draft
Date Completed:	4/14/11

BORING LOG **B184** --

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			GRAB		B184-0.5	GM		**Hand-cleared to 0.5 ft bgs. Standing water in hole. Wet, silty sandy GRAVEL (30-30-40). Brown, no hydrocarbon odor. FILL.**	
		20	80	54.5	B184-02.5	SM		**Moist, silty fine-grained SAND (20-80-0). Gray, hydrocarbon odor.**	
		29 34				ML		**Moist, hard SILT with some fine-grained sand (90-10-0). Gray to brown, hydrocarbon odor.**	
5		9 22 26	80	64	B184-04.5	ML		**Moist, hard, fine-grained sandy SILT (70-30-0). Gray with some oxidation, hydrocarbon odor.**	
		8 18 23	50	11.5	B184-06	SM		**Moist, dense, silty fine-grained SAND (30-70-0). Gray, faint hydrocarbon odor.**	
		8 24 30	60	1.6	B184-08	SM		**Moist, dense, silty fine-grained SAND (20-80-0). Gray, changes to brown at 9' bgs, no hydrocarbon odor.**	
10								**Boring terminated at 9.0' bgs and backfilled with bentonite chips.**	
15									

Drilling Co./Driller:	Cascade/Jeremiah		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	SPT		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	9.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	Seattle Terminal 01-600
Project Number:	0440-004-22
Logged by:	EBF
Date Started:	4/14/11
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	Draft
Date Completed:	4/14/11

BORING LOG B185 --

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			GRAB		B185-0.5	GM-SM		**Hand-cleared to 0.5' bgs. Standing water in hole. Wet, loose, silty fine-grained sandy GRAVEL to silty, gravelly fine-grained SAND (25-40-35). Brown, no hydrocarbon odor.**	
		20 21 24	20		B185-02.5	ML		**Moist, hard, fine-grained sandy SILT (80-20-0). Gray, hydrocarbon odor.**	
5		20 50/3	10	1.3	B185-04.5	ML		**Moist, hard, fine-grained sandy SILT (80-20-0). Bronw, slight hydrocarbon odor.**	
		12 29 50/6	10		B185-06	ML		**Moist, hard, fine-grained sandy SILT (80-20-0). Brown to gray, slight hydrocarbon odor.**	
		9 24	50	82.8	B185-08	ML		**Moist, fine-grained sandy SILT (70-30-0). Gray, hydrocarbon odor.**	
		20				SM		**Moist, silty fine-grained SAND (30-70-0). Brown, hydrocarbon odor.**	
10								**Boring terminated at 9.5' bgs and backfilled with bentonite chips.**	
15									

Drilling Co./Driller:	Cascade/Jeremiah		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	SPT		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	9.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	Seattle Terminal 01-600
Project Number:	0440-004-22
Logged by:	EBF
Date Started:	4/14/11
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	Draft
Date Completed:	4/14/11

BORING LOG | B186 --

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			GRAB		B186-0.5	GM-SM		**Hand-cleared to 0.5' bgs. Standing water in hole. Wet, loose, silty fine-grained sandy GRAVEL to silty gravelly fine-grained SAND (20-40-40). Brown to gray, no hydrocarbon odor.**	
		8 10 12	75	0.6	B186-02.5	ML		**Moist, very stiff, fine-grained sandy SILT (80-20-0). Brown to gray, hydrocarbon odor.**	
5		4 4 5	60	2.4	B186-04.5	ML		**Moist, stiff, fine-grained sandy SILT (80-20-0). Gray, hydrocarbon odor.**	
		8 16 23	100	116.7	B186-06	ML		**Moist, hard, fine-grained sandy SILT (80-20-0). Brown, with gray coloring at 6.25 to 6.5' bgs, hydrocarbon odor.**	
		3 7	90	48.1	B186-08	ML		**Moist, stiff, fine-grained sandy SILT (85-15-0). Brown, hydrocarbon odor.**	
		9				SM		**Moist, medium dense, silty fine-grained SAND (25-75-0). Gray, hydrocarbon odor.**	
10								**Boring terminated at 9.5' bgs and backfilled with bentonite chips.**	
15									

Drilling Co./Driller:	Cascade/Jeremiah		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	Notes
Sampler Type:	SPT		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	9.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	Seattle Terminal 01-600
Project Number:	0440-004-22
Logged by:	EBF
Date Started:	4/14/11
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	Draft
Date Completed:	4/14/11

BORING LOG **B187** --

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			GRAB	0.0	B187-0.5	SM		**Hand-cleared to 0.5 ft bgs. Standing water in hole. Wet, loose, silty gravelly fine to coarse-grained SAND, fine, angular gravels (20-50-30). Brown, no hydrocarbon odor.**	
		10 12 14	10		B187-02.5	SM		**Moist, silty, gravelly fine-grained SAND with some coarse-grained sand, and fine-grained angular gravels (20-60-20). Brown, faint hydrocarbon odor.**	
5		18 32 35	5		B187-04.5	SM		**Poor recovery. Similar to previous. Sheen on water in sampler.**	
		18 31 37	90	23.7	B187-06	ML		**Moist, hard, fine-grained sandy SILT (70-30-0). Gray with some oxidation, faint hydrocarbon odor.**	
						SM		**Moist, silty fine-grained SAND (20-80-0). Brown with oxidation, no hydrocarbon odor.**	
		20 25 28	50	15.6	B187-08	SM		**Moist, very dense, silty fine-grained SAND (30-70-0). Brown with oxidation, no hydrocarbon odor.**	
10								**Boring terminated at 9.5' bgs and backfilled with bentonite chips.**	
15									

Drilling Co./Driller:	Cascade/Jeremiah		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	SPT		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	9.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project: Seattle Terminal 01-600
Project Number: 0440-004-22
Logged by: ATL
Date Started: 4/19/11
Surface Conditions: Grass
Well Location N/S:
Well Location E/W:
Reviewed by: JAC
Date Completed: 4/19/11

BORING LOG B192
01MW84

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: 20 feet bgs
Water Depth After Completion: 16.92 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Hand-cleared to 4 feet below ground surface (bgs).**	
					B192-2.5	SM		**Damp, silty, fine to coarse SAND, some gravel, brown, no hydrocarbon odor (30-60-10).**	
5		3 4 5	30	0.0	B192-5	SM		**Damp, very loose, silty fine to medium SAND, trace gravel, brown, concrete debris, no hydrocarbon odor (25-70-5).**	
		5 7	100	0.0	B192-7.5	SM		**Damp, loose, silty fine SAND, brown, no hydrocarbon odor (50-50-0).**	
		9				ML		**Damp, stiff, fine sandy SILT, brown, no hydrocarbon odor.**	
10		5 7 9	50	0.0	B192-10	ML		**Same as above.**	
						SM		**Damp, loose, silty fine SAND, brown, wood debris, no hydrocarbon odor (50-50-0).**	
		20 50/6	80	0.0	B192-12.5	SM		**Damp, medium dense, silty fine SAND, gray, faint hydrocarbon odor (20-80-0).**	
15									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diamter:**	2	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	13 to 23	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	25	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	23	feet bgs	**Annular Seal:**	Bentonite Chips		
State Well ID No.:	BHB 250		**Monument Type:**	Flushmount		

SoundEarth Strategies

Project: Seattle Terminal 01-600
Project Number: 0440-004-22
Logged by: ATL
Date Started: 4/19/11
Surface Conditions: Grass
Well Location N/S:
Well Location E/W:
Reviewed by: JAC
Date Completed: 4/19/11

BORING LOG B192 01MW84

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: 20 feet bgs
Water Depth After Completion: 16.92 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		20 50/6	100	35	B192-15	SM		**Damp, medium dense, silty fine SAND, brown, hydrocarbon odor (15-85-0).**	
		25 50/6	100	5.4	B192-17.5	SM		**Damp (outside of sampler wet), medium dense, silty fine SAND, gray, no hydrocarbon odor (15-85-0).**	
20		20 50/6	100	0.0	B192-20	SP		**Wet, medium dense, fine to medium SAND with silt, dark gray to light gray, no hydrocarbon odor (10-90-0).**	
		30 50/6	100	0.0					
		30 50/6	100	0.0	B192-22	ML		**Damp, very stiff, SILT, dark gray, no hydrocarbon odor.**	
		30 50/6	100	0.0					
		30 50/6	100	0.0	B192-25	SM-ML		**Damp to wet, very stiff SILT with fine sand, 4-inch layer of fine sandy silt at 24 feet bgs, dark gray, no hydrocarbon odor.**	
25								**Boring terminated at 25 feet bgs and completed as 2-inch-diameter monitoring well 01MW84, screened from 13 to 23 feet bgs, backfilled with 2/12 sand from 25 to 11 feet bgs, bentonite chips from 11 to 2 feet bgs, and cement from 2 feet bgs to surface grade. Completed with a flush-mount monument.**	
30									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diamter:**	2	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	13 to 23	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	25	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	23	feet bgs	**Annular Seal:**	Bentonite Chips		
State Well ID No.:	BHB 250		**Monument Type:**	Flushmount		

SoundEarth Strategies

Project:	Seattle Terminal 01-600
Project Number:	0440-004-22
Logged by:	ATL
Date Started:	4/20/11
Surface Conditions:	Concrete
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	JAC
Date Completed:	4/20/11

BORING LOG B194 01MW86

Site Address: 2737 West Commodore Way Seattle, Washington

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: 21.54 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						Concrete		**Concrete (1-foot-thick). Boring air-knifed to 6 feet below ground surface (bgs).**	
5		8 8 8	100	0.0	B194-07.5	SM		**Damp, medium dense, silty fine SAND, brown, no hydrocarbon odor (30-70-0).**	
10		5 6 6	100	0.0	B194-10	SM		**Damp, medium dense, silty fine SAND, increased sand with depth, brown to gray, no hydrocarbon odor (40-60-0).**	
		8 14 20	100	3.1	B194-12.5	SM		**Damp, dense, silty fine SAND, gray, no hydrocarbon odor (15-85-0).**	
15									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diamter:**	2	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	14.5 to 24.5	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	26	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	24.5	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	BHB 252		**Monument Type:**	Flushmount		

SoundEarth Strategies

Project:	Seattle Terminal 01-600
Project Number:	0440-004-22
Logged by:	ATL
Date Started:	4/20/11
Surface Conditions:	Concrete
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	JAC
Date Completed:	4/20/11

BORING LOG | B194 01MW86

Site Address: 2737 West Commodore Way Seattle, Washington

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: 21.54 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		7 50/6	100	1.1	B194-15	SM-SP		**Damp, very dense, silty fine SAND to fine SAND with silt, gray, no hydrocarbon odor (15-85-0 to 10-90-0).**	
		17 23 24	100	10.4	B194-17.5	SP		**Damp, very dense, fine to medium SAND, some silt, dark gray, no hydrocarbon odor (10-90-0).**	
20		14 19 23	100	23	B194-20	SP		**Damp, very dense, fine to medium SAND, trace silt, dark gray, possible hydrocarbon odor (5-95-0).**	
		17 11	100	15.0	B194-21.5				
		12 14 20 20	100	0.0		ML		**Damp, hard, SILT, some fine sand, 4-inch layer of fine sandy silt at 24 feet bgs, dark gray, no hydrocarbon odor (90-10-0).**	
25		17 18 19	100	6.4	B194-26				
								Boring terminated at 26 feet bgs and completed as 2-inch-diameter monitoring well 01MW86, screened from 14.5 to 24.5 feet bgs, backfilled with 2/12 sand from 26 to 12.5 feet bgs, bentonite chips from 12.5 to 2 feet bgs, and cement from 2 feet bgs to surface grade. Completed with a flush-mount monument.	
30									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diamter:**	2	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	14.5 to 24.5	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	26	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	24.5	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	BHB 252		**Monument Type:**	Flushmount		

SoundEarth Strategies

Project:	Seattle Terminal 01-600
Project Number:	0440-004-22
Logged by:	EBF
Date Started:	4/20/11
Surface Conditions:	Concrete
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	JAC
Date Completed:	4/20/11

BORING LOG B195 01MW87

Site Address: 2737 West Commodore Way Seattle, Washington

Water Depth At Time of Drilling: 19 feet bgs
Water Depth After Completion: 13.95 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						Concrete		**Concrete (8 inches). Air-knife to 6 feet below ground surface (bgs) prior to drilling.**	
5		3 2 2	90	0.0	B195-07.5	SM-ML		**Moist, soft, fine sandy SILT, brown to dark brown, wood fragments and charcoal from 8 to 9 feet bgs, no hydrocarbon odor (70-30-0).**	
10		2 4 5	90	0.3	B195-10	SM		**Moist, loose, silty, fine SAND, brown, no hydrocarbon odor (40-60-0).**	
		12 16 17	10	0.3	B195-12.5	SM		**Moist, dense, silty, fine SAND, brown, no hydrocarbon odor (30-70-0).**	
15									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diamter:**	2	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	11 to 21	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	26	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	21	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	BHB 267		**Monument Type:**	Flushmount		

SoundEarth Strategies

Project:	Seattle Terminal 01-600
Project Number:	0440-004-22
Logged by:	EBF
Date Started:	4/20/11
Surface Conditions:	Concrete
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	JAC
Date Completed:	4/20/11

BORING LOG B195 01MW87

Site Address: 2737 West Commodore Way Seattle, Washington

Water Depth At Time of Drilling: 19 feet bgs
Water Depth After Completion: 13.95 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		10 13 15	100	0.5	B195-15	SM		**Moist (sampler wet on outside), medium dense, silty, fine SAND, brown, no hydrocarbon odor (20-80-0).**	
		11 17 19	80	0.9	B195-17.5	SM		**Wet, dense, silty, fine to medium SAND, gray with some oxidation, faint hydrocarbon odor (15-85-0).**	
20		15 18 19	100	0.5		SM		**Wet, dense, silty, fine to medium SAND, gray with some oxidation, no hydrocarbon odor (20-80-0).**	
		18 21 21	100	0.3	B195-21.5	ML		**Moist, hard SILT, some fine sand, gray, no hydrocarbon odor (90-10-0).**	
		20 23 27	80	0.5	B195-23	SM-ML		**Moist to wet, hard, fine sandy SILT, gray, no hydrocarbon odor (70-30-0).**	
25		24 35 35	80	0.7	B195-24.5			**Moist to wet, very dense to hard, interbedded silty fine SAND and SILT with fine sand, increasing sand content towards bottom of sample, no hydrocarbon odor.**	
								Boring terminated at 26 feet bgs and completed as 2-inch-diameter monitoring well 01MW87, screened from 11 to 21 feet bgs, backfilled with bentonite chips from 26 to 22 feet bgs, 2/12 sand from 22 to 9 feet bgs, bentonite chips from 9 to 2 feet bgs, and cement from 2 feet bgs to surface grade. Completed with a flush-mount monument.	
30									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diamter:**	2	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	11 to 21	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	26	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	21	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	BHB 267		**Monument Type:**	Flushmount		

SoundEarth Strategies

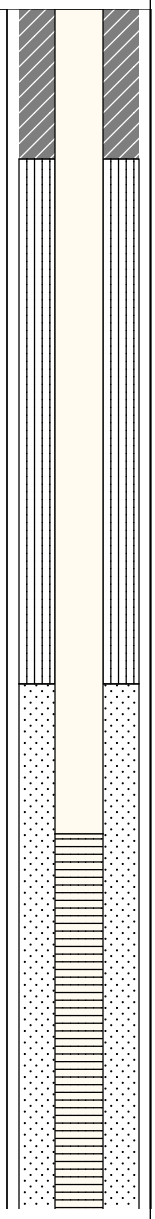
Project:	Seattle Terminal 01-600
Project Number:	0440-004-22
Logged by:	EBF
Date Started:	4/21/11
Surface Conditions:	Grass
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	JAC
Date Completed:	4/21/11

BORING LOG B196 01MW88

Site Address: 2737 West Commodore Way Seattle, Washington

Water Depth At Time of Drilling: 20 feet bgs
Water Depth After Completion: 20.83 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Boring air-knifed to approximately 5 feet below ground surface (bgs) prior to drilling.**	
5		8 8 8	90	0.0	B196-07.5	**ML**		**Moist, stiff, fine sandy SILT with organics, brown, no hydrocarbon odor (70-30-0).**	
10		7 7 7	100	0.0	B196-10	**ML**		**Moist, stiff, fine sandy SILT, brownish gray to dark brown, some charcoal, no hydrocarbon odor (75-25-0).**	
		10 10 9	75	0.0	B196-12.5	**SM**		**Moist, loose, silty, fine SAND, brown with some oxidation, no hydrocarbon odor (30-70-0).**	
15		15 16 17	80	0.0	B196-15	**SM**		**Moist, medium dense, silty, fine SAND, brown, no hyrdocarbon odor (25-75-0).**	



Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diamter:**	2	inches	**Notes/Comments:**
Drilling Equipment:	LA HSA		**Well Screened Interval:**	11 to 21	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	Auto/140	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	28.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	21	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	BHB 268		**Monument Type:**	Flushmount		

SoundEarth Strategies

Project:	Seattle Terminal 01-600
Project Number:	0440-004-22
Logged by:	EBF
Date Started:	4/21/11
Surface Conditions:	Grass
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	JAC
Date Completed:	4/21/11

BORING LOG B196 01MW88

Site Address: 2737 West Commodore Way Seattle, Washington

Water Depth At Time of Drilling: 20 feet bgs
Water Depth After Completion: 20.83 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
		23 50/6	75	0.0	B196-17.5	SM-SP		**Moist, dense, fine to medium SAND, with silt, brown, no hydrocarbon odor (15-85-0).**	
20		21 24	100	0.0	B196-20	SM-SP		**Same as above.**	
		23				ML		**Moist, very stiff, SILT with fine sand, gray, no hydrocarbon odor (90-10-0).**	
		18 23 21	90	0.0	B196-23	ML		**Moist, very stiff, SILT with fine sand, increased sand with depth, gray, no hydrocarbon odor (90-10-0).**	
		21 21 21	90	0.0	B196-24.5				
25		14 15 17	60	0.0	B196-26.5				
		10 14 18	90	0.0	B196-28	ML		**Moist, very stiff, SILT with fine sand interbedded with fine sandy SILT, gray, no hydrocarbon odor (70-30-0).**	
30								**Boring terminated at 28.5 feet bgs and completed as 2-inch-diameter monitoring well 01MW88, screened from 11 to 21 feet bgs, backfilled with bentonite chips from 28.5 to 22 feet bgs, 2/12 sand from 22 to 9 feet bgs, bentonite chips from 9 to 2 feet bgs, and cement from 2 feet bgs to surface grade. Completed with a flush-mount monument.**	

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diamter:**	2	inches
Drilling Equipment:	LA HSA		**Well Screened Interval:**	11 to 21	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	Auto/140	lbs	**Filter Pack Used:**	2/12 Sand	
Total Boring Depth:	28.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	21	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BHB 268		**Monument Type:**	Flushmount	

Notes/Comments:

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-22
Logged by:	EBF
Date Started:	12/29/11
Surface Conditions:	Gravel
Well Location N/S:	38.5 feet south of well 01MW72
Well Location E/W:	3.5 feet west of well 01MW72
Reviewed by:	DRAFT
Date Completed:	12/29/11

BORING LOG **B198** 01MW90

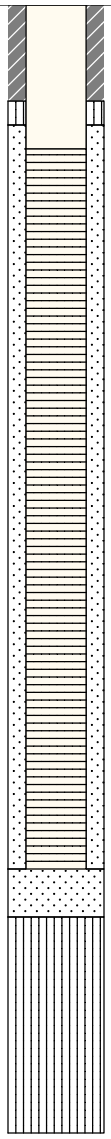
Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: 3 feet bgs

Water Depth After Completion: 7.53 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description
0				5.4	B198-0.5			**Hand cleared to 2.5 feet below ground surface (bgs). Wet, silty, gravelly, fine to medium SAND, dark brown to black.**
		18 28 22	100	5.2	B198-02.5	ML		**Moist, SILT with fine sand, blue-gray.**
5		8 10 11	100	5.3	B198-05	ML		**Moist, hard, SILT, trace fine sand, increasing sand content with depth, brown-gray, hydrocarbon odor, sheen on sample (95-5-0).**
		10 12 16	90	5.1	B198-07.5	SM		**Moist, very stiff, sandy SILT, fine sand, gray, possible hydrocarbon odor (80-20-0).**
10		20 22 32	95	5.0	B198-10	SM		**Sheen on slough. Moist, medium dense, silty fine SAND, gray, possible faint hydrocarbon odor (30-70-0).**
		12 19 34	100	5.2	B198-12.5	SP		**Moist, very dense, silty fine SAND, gray, no hydrocarbon odor (25-75-0).**
15		21 50/6	125	5.9	B198-15	SP		**Moist to wet, very dense, fine SAND, some silt, gray, no hydrocarbon odor (10-90-0).**
		50/6	200	5.0	B198-17.5	SP		**Same as above.**
20		50/6	150	6.0	B198-20	SP		**Wet, very dense, fine to medium SAND, some silt, gray, 1-inch-thick silt layer at 17.75 feet bgs, gray with orange oxidation, no hydrocarbon odor (10-90-0).**
		22 50/4	150	5.2	B198-22.5	ML		**Wet, very dense, fine to medium SAND, some silt, gray, no hydrocarbon odor (10-90-0).**
25								**Moist, hard, SILT, trace fine sand, gray, no hydrocarbon odor (95-5-0).**
								Boring terminated at 23.5 bgs and completed as monitoring well 01MW90.

Well Construction Detail



Drilling Co./Driller:	Cascade/JJ		**Well/Auger Diamter:**	2	inches
Drilling Equipment:	Hollow-Stem Auger		**Well Screened Interval:**	3 to 18	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand	
Total Boring Depth:	23.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	18	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BHM 071		**Monument Type:**	Flush mount	

Notes/Comments:

Approximately 5 gallons of water added while installing well.

SoundEarth Strategies

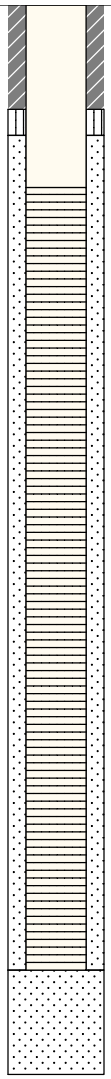
Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-22
Logged by:	EBF
Date Started:	12/29/11
Surface Conditions:	Gravel
Well Location N/S:	3 feet south of 01MW72
Well Location E/W:	38.5 feet east of 01MW72
Reviewed by:	DRAFT
Date Completed:	12/29/11

BORING LOG B199
01MW91

Site Address: 2737 West Commodore Way, Seattle, WA

Water Depth At Time of Drilling: 2 feet bgs
Water Depth After Completion: 7.30 feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description
0					B199-0.5			**Hand cleared to 2 feet below ground surface (bgs).** **0.5 ft bgs: Wet, SILT with fine sand,**
		10 12 16	100	6.0	B199-02.5	ML		**Moist, very stiff, SILT, some fine sand, gray-brown, some brown-orange oxidation, hydrocarbon odor, no sheen (90-10-0).**
5		5 9 12	90	69	B199-05	ML		**Moist, very stiff, sandy SILT, fine sand, mottled gray and brown, some orange oxidation, possible hydrocarbon odor (80-20-0).**
		19 21 27	100	5.4	B199-07.5	ML		**Same as above.**
		16 23			B199-9-9.5	SP		**Moist, very dense, fine SAND, some silt, gray, possible faint hydrocarbon odor (10-90-0).**
10		17 21 28	75	5.4	B199-9.5-10 B199-10			**Collect two geotechnical samples from 9 to 10 ft bgs. Soil same as above.** **Moist, very dense, fine SAND, trace silt, gray, some brown-orange oxidation, no hydrocarbon odor (5-95-0).**
		15 16 29	100	4.8	B199-12.5	SP		**Moist, very dense, fine SAND, some silt, gray, no hydrocarbon odor (10-90-0).**
15		26 50/6	100	4.8	B199-15	SP		**Same as above (10-90-0).**
		50/6	200	5.6	B199-17.5	SP		**Moist to wet, very dense, fine SAND, some silt, gray, no hydrocarbon odor (10-90-0).**
		16 32			B199-19-19.5	SP		**Collect two geotechnical samples from 19 to 20 feet bgs. Contact at 19.25 feet bgs to hard SILT.**
20		50/6	150	4.9	B199-19.5-20 B199-20	ML		**Moist, hard, SILT, trace fine sand, gray, no hydrocarbon odor (95-5-0).**
								Boring terminated at 20.5 bgs and completed as monitoring well 01MW91.



Drilling Co./Driller:	Cascade/JJ		**Well/Auger Diamter:**	2	inches
Drilling Equipment:	Hollow-Stem Auger		**Well Screened Interval:**	3.5 to 18.5	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand	
Total Boring Depth:	20.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	18.5	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	BHM 072		**Monument Type:**	Flush mount	

Notes/Comments:
Added approximately 2-3 gallons of water while setting well.

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	3/28/12
Surface Conditions:	Gravel
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	JAC
Date Completed:	4/6/12

BORING LOG B200

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100	78	B200-0.5	SP-SM		**Moist, silty, gravelly, fine SAND, brown, no hydrocarbon odor (25-55-20).**	
						ML		**Moist, stiff, SILT, some fine sand, blue-gray, hydrocarbon odor (85-15-0). (Boring hand cleared to 2.5 feet below ground surface [bgs]).**	
			100	19.6	B200-02.5				
5		7 11 15	70	58	B200-04.5	ML		**Moist, very stiff, fine, sandy SILT, gray with orange-brown mottling, hydrocarbon odor (75-25-0).**	
		17 20 22	100	93	B200-06.5	ML		**Moist, very stiff, SILT, some fine sand, blue-gray with orange-brown mottling, hydrocarbon odor (85-15-0).**	
								Boring terminated at 8 feet bgs and backfilled with bentonite to surface grade.	
10									
15									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8" auger	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	8	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	3/28/12
Surface Conditions:	Gravel
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	JAC
Date Completed:	4/6/12

BORING LOG B201

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: 8 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100	0.0	B201-0.5	SM		**Moist to wet (1.5 feet below ground surface [bgs]), standing water in boring, silty, gravelly, fine SAND, dark brown to brown, no hydrocarbon odor (30-60-10) (FILL). (Boring hand cleared to 2.5 feet bgs).**	
		7 11 12	90	163	B201-02.5	ML		**Moist, stiff, fine sandy SILT, blue-gray with brown-orange mottling, hydrocarbon odor (80-20-0).**	
5		8 20 24	90	282	B201-04.5	ML		**Moist, very stiff, fine, sandy SILT, brown to blue-gray (at 5 ft bgs), hydrocarbon odor (75-25-0).**	
		9 26 23	75	169	B201-06.5	SM		**Moist, medium dense, silty, fine SAND, gray, strong hydrocarbon odor (20-80-0).**	
		9 12 15	100	244	B201-08	SM		**Moist to wet, medium dense, fine SAND, some silt, gray, hydrocarbon odor (15-85-0).**	
10		50/6	300	274	B201-10	SM		**Moist, very dense, fine SAND, some silt, brown, hydrocarbon odor (15-85-0).**	
		50/6	300	0.6	B201-12.5	SP-SM		**Moist, very dense, fine to medium SAND, some silt, gray, faint hydrocarbon odor (10-90-0).**	
15		50/6	300	6.1	B201-15	SP-SM		**Same as above.**	
								Boring terminated at 15.5 feet bgs and backfilled with bentonite to surface grade.	
20									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8" auger	inches
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--	
Total Boring Depth:	15.5	feet bgs	**Surface Seal:**	--	
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	--		**Monument Type:**	--	

Notes/Comments:

Boring from 2 feet bgs is approximately 2 feet west of original boring location.

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	3/28/12
Surface Conditions:	Gravel
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	JAC
Date Completed:	4/5/12

BORING LOG B202

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: 5 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100		B202-0.5	SM-GM		**Wet (standing water), silty, coarse sandy GRAVEL to gravelly SAND, brown, no hydrocarbon odor (20-40-40) (FILL).**	
		11 19 20	75	86.2	B202-02.5	ML		**Moist, very stiff, fine sandy SILT, blue-gray with some brown, strong hydrocarbon odor, product on sample (70-30-0).**	
5		11 14 20	90	149.2	B202-04.5	ML		**Wet, very stiff, fine sandy SILT, some gravel, blue-gray to brown, strong hydrocarbon odor (60-30-10).**	
		8 12 20	90	248	B202-06.5	ML		**Moist to wet, very stiff, fine sandy SILT with lenses of silty fine sand, gray with some brown mottling, hydrocarbon odor (60-40-0).**	
		11 12 15	60	1.9	B202-08	SM		**Moist to wet, medium dense, silty fine SAND, gray with orange-brown mottling, faint hydrocarbon odor (25-75-0).**	
10		50/5	125	0.3	B202-10	SM		**Same as above, very dense (20-80-0).**	
		50/6	300	0.1	B202-12.5	SP-SM		**Moist, very dense, fine to medium SAND, some silt, micaceous sand, gray, no hydrocarbon odor (10-90-0).**	
15		50/6	300	2.7	B202-15	SP-SM		**Same as above.**	
								Boring terminated at 15.5 feet below ground surface and backfilled with bentonite to surface grade.	
20									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8" auger	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	15.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	3/28/12
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	4/6/12

BORING LOG B203

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: 10 feet bgs
Water Depth After Completion: feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100		B203-0.5	SP-SM		**Wet, silty gravelly fine to coarse SAND, brown, no hydrocarbon odor (20-50-30) (FILL).**	
		9 11 14	100	290	B203-02.5	ML		**Moist, stiff, fine sandy SILT with lenses of silty fine sand, gray, hydrocarbon odor, product on sample (60-40-0).**	
5		14 18 20	100	4.8	B203-04.5	SM ML		**Moist, medium dense, silty fine SAND, gray, strong hydrocarbon odor (25-75-0).** **Moist, very stiff, fine sandy SILT, brown to orange, faint hydrocarbon odor (70-30-0).**	
		7 10 15	100	213	B203-06.5	ML		**Moist, stiff to very stiff, fine sandy SILT, gray to brown, faint hydrocarbon odor (80-20-0).**	
		17 17 20	100	1.1	B203-08	SM		**Moist to wet, medium dense, silty fine SAND, micaceous sand, brown, some orange mottling, no hydrocarbon odor (20-80-0)**	
10		15 24 27	100	2.4	B203-10	SM		**Wet, medium dense, fine to coarse SAND, some silt, gray, faint hydrocarbon odor (15-85-0).**	
		20 20 20	100	3.5	B203-12.5	SP-SM		**Wet, medium dense, fine to medium SAND, some silt, brown, no hydrocarbon odor (10-90-0).**	
15		50/6	300	4.5	B203-15	SP-SM		**Same as above, moist.**	
								Boring terminated at 15.5 feet below ground surface and backfilled with bentonite to surface grade.	
20									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8" auger	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	15.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project: TOC Holdings Co. Facility No. 01-600
Project Number: 0440-004-27
Logged by: EBF
Date Started: 3/28/12
Surface Conditions: Gravel
Well Location N/S:
Well Location E/W:
Reviewed by: JAC
Date Completed: 4/6/12

BORING LOG B204

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: 8 feet bgs
Water Depth After Completion: feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100		B204-0.5	SP-SM		**Moist, silty, gravelly, fine to coarse SAND, subangular gravel, brown, no hydrocarbon odor (15-65-20).**	
		6 12 20	60	204	B204-02.5	SM		**Moist, medium dense, silty fine SAND, gray, strong hydrocarbon odor (30-70-0).**	
5		9 12 15	100	143	B204-04.5	ML		**Moist, very stiff, fine sandy SILT, trace gravel, 1-2 cm thick lenses of silty fine sand, gray with areas of brown-orange mottling, hydrocarbon odor, product on sample (70-30-0).**	
		6 11 18	90	1.4	B204-06.5	ML		**Moist, very stiff, SILT, some fine sand, brown, some orange mottling, faint hydrocarbon odor (85-15-0).**	
		16 17 18	100	1.7	B204-08	SM		**Wet, medium dense, silty fine SAND, decreasing silt with depth, gray, no hydrocarbon odor (20-80-0).**	
10		50/6	125	4.3	B204-10	SM		**Wet, very dense, fine SAND, some silt, gray, no hydrocarbon odor (15-85-0).**	
		12 20 20	100	19.8	B204-12.5	SP-SM		**Moist, medium dense, fine SAND, some silt, gray, no hydrocarbon odor (10-90-0).**	
15		50/6	20.3	20.3	B204-15	SP-SM		**Wet, very dense, fine to medium SAND, some silt, gray, no hydrocarbon odor (10-90-0).**	
								Boring terminated at 15.5 feet below ground surface and backfilled with bentonite to surface grade.	
20									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8" auger	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	8		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	15.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project: TOC Holdings Co. Facility No. 01-600
Project Number: 0440-004-27
Logged by: EBF
Date Started: 3/28/12
Surface Conditions: Gravel
Well Location N/S:
Well Location E/W:
Reviewed by: JAC
Date Completed: 4/5/12

BORING LOG B205

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: 8 feet bgs
Water Depth After Completion: feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100		B205-0.5	SP-SM		**Moist, silty, gravelly, fine to coarse SAND with organics, brown, no hydrocarbon odor (15-60-25).**	
		5 10 15	80	0.3	B205-02.5	ML		**Moist, very stiff, fine sandy SILT, gray-brown, some brown mottling, no hydrocarbon odor (60-40-0).**	
5		10 10 14	75	0.1	B205-04.5	ML		**Moist, stiff, fine sandy SILT with 1-2 inch thick lenses of silty fine sand, gray with some orange mottling, no hydrocarbon odor (70-30-0).**	
		13 14 15	100	0.1	B205-06.5	ML		**Moist, very stiff, SILT, some fine sand, gray, with brown-orange mottling in upper 6 inches, no hydrocarbon odor (85-15-0).**	
		8 16 17	80	0.3	B205-08	SM		**Wet, medium dense, silty fine SAND, slightly micaceous sand, brown to gray, some orange mottling, no hydrocarbon odor (20-80-0).**	
10		50/6	200	0.1	B205-10	SM		**Wet, very dense, fine to medium SAND, some silt, gray, no hydrocarbon odor (15-85-0).**	
		15 17 35	100	0.1	B205-12.5	SP-SM		**Same as above, medium dense, decreasing silt content (10-90-0).**	
15		50/6	300	0.1	B205-15	SP-SM		**Moist to wet, very dense, fine to medium SAND, some silt, gray, no hydrocarbon odor (10-90-0).**	
								Boring terminated at 15.5 feet below ground surface and backfilled with bentonite to surface grade.	
20									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8" auger	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	8		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	15.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	3/28/12
Surface Conditions:	Gravel and 2/12 sand
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	4/5/12

BORING LOG B206

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: 9 feet bgs

Water Depth After Completion: feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100		B206-0.5	SP-SM		**Wet (standing water), silty, gravelly, fine to medium SAND, with organics, brown, no hydrocarbon odor (15-55-30).**	
		6 7 9	75	181	B206-02.5	ML		**Moist, stiff, fine sandy SILT, blue-gray, strong hydrocarbon odor (70-30-0).**	
5		7 7 10	90	187	B206-04.5	SM-ML		**Moist, silty fine SAND to sandy SILT, gray, hydrocarbon odor, product on sample (40-60-0).**	
		10 13 14	90	5.1	B206-06.5	ML ML		**Moist, stiff, SILT, some fine sand, orange-brown, no hydrocarbon odor (85-15-0).** **Moist, very stiff, SILT, some fine sand, increasing sand with depth, brown, no hydrocarbon odor (85-15-0).**	
		10 20 21	90	26.9	B206-08	SM		**Moist to wet, medium dense, silty fine SAND, micaceous sand, brown with orange banding, no hydrocarbon odor (20-80-0).**	
10		17 18 20	100	4.8	B206-10	SM		**Wet, medium dense, silty, fine to medium SAND, gray-brown, no hydrocarbon odor (15-85-0).**	
		19 24 25	100	2.4	B206-12.5	SM		**Moist, medium dense, fine SAND with 1-2 cm thick lenses of silt, gray, no hydrocarbon odor (15-85-0).**	
15		50/6	200	40.5	B206-15	SM		**Moist, very dense, fine to medium SAND, some silt, gray, no hydrocarbon odor (15-85-0).**	
								Boring terminated at 15.5 feet below ground surface and backfilled with bentonite to surface grade.	
20									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8" auger	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	15.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	3/28/12
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	4/5/12

BORING LOG B207

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: 10 feet bgs
Water Depth After Completion: feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100		B207-0.5	SP		**Moist, gravelly, fine and coarse SAND, some silt, some organic matter and roots, brown, no hydrocarbon odor (10-60-30).**	
		5 7 8	100	162	B207-2.5	SM		**Moist, loose, silty fine SAND, gray, strong hydrocarbon odor, product on sample (30-70-0).**	
						ML		**Moist, stiff, fine sandy SILT, gray (75-25-0).**	
5		9 11 12	90	208	B207-04.5	ML		**Moist, stiff, fine sandy SILT, trace fine gravel, gray to brown, strong hydrocarbon odor, product on sample (75-20-5).**	
		11 12 14	90	3.0	B207-06.5	ML		**Moist, stiff, fine sandy SILT, brown, some orange mottling, hydrocarbon odor (80-20-0).**	
		11 12 19	90	5.6	B207-08	SM		**Moist, silty fine SAND, brown-gray, faint hydrocarbon odor ends at 8 feet below ground surface (bgs) (25-75-0).**	
10		17 12 23	100	1.7	B207-10	SM		**Wet, medium dense, fine to medium SAND, some silt, micaceous sand, gray, no hydrocarbon odor (15-85-0).**	
		50/6	300	22.2	B207-12.5	SM		**Same as above.**	
15		50/6	300	9.0	B207-15	SP-SM		**Same as above, decreasing silt content (10-90-0).**	
								Boring terminated at 15.5 feet bgs and backfilled with bentonite to surface grade.	
20									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8" auger	inches
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--	
Total Boring Depth:	15.5	feet bgs	**Surface Seal:**	--	
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	--		**Monument Type:**	--	

Notes/Comments:

Boring from 0.5 feet bgs is 1 foot north of original boring location due to an underground pipe.

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	3/28/12
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	4/5/12

BORING LOG B208

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: 12.5 feet bgs

Water Depth After Completion: feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0					B208-0.5	SP-SM		**Wet (standing water), silty, gravelly, fine to medium SAND, brown, no hydrocarbon odor (15-50-35).**	
		6 10 16	80	258	B208-02.5	SM		**Moist to wet, loose, silty fine SAND, gray, strong hydrocarbon odor (30-70-0).**	
						ML		**Moist, very stiff, fine sandy SILT, gray, hydrocarbon odor (75-25-0).**	
5		6 10 20	90	102.5	B208-04.5	ML		**Moist, very stiff, fine sandy SILT, gray with some brown mottling, strong hydrocarbon odor (70-30-0).**	
						ML		**Same as above.**	
		5 21 23	90	1.7	B208-06.5	SM		**Moist, medium dense, silty, fine SAND, brown-gray, faint hydrocarbon odor (35-65-0).**	
		11 20	100	29	B208-08	ML		**Moist, very stiff, fine sandy SILT, gray with orange mottling, no hydrocarbon odor (80-20-0).**	
		26				SM		**Moist, medium dense, silty, fine SAND, brown, orange coloration at contact, no hydrocarbon odor (20-80-0).**	
10		50/6	300	139	B208-10	SM		**Moist, very dense, fine to medium SAND, some silt, gray, hydrocarbon odor (15-85-0).**	
		50/6	300	8.2	B208-12.5	SP-SM		**Same as above, wet, less silt (10-90-0).**	
15		50/6	300	1.4	B208-15	SP-SM		**Wet, very dense, fine to medium SAND, some silt, gray, hydrocarbon odor (10-90-0).**	
								Boring terminated at 15.5 feet below ground surface and backfilled with bentonite to surface grade.	
20									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8" auger	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	15.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	3/28/12
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	4/5/12

BORING LOG B209

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: 9 feet bgs

Water Depth After Completion: feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0					B209-0.5	SP-SM		**Wet, silty, gravelly, fine to coarse SAND, brown, no hydrocarbon odor (15-55-30).**	
		7 17 27	50	231	B209-02.5	ML		**Moist, very stiff, fine sandy SILT, gray-blue, strong hydrocarbon odor (60-40-0).**	
5		12 16 18	90	276	B209-04.5	ML		**Moist, very stiff, fine sandy SILT, trace gravel, gray with some brown mottling, hydrocarbon odor (60-35-5).**	
		8 20 24	80	19.0	B209-06.5	ML		**Moist to wet, very stiff, fine sandy SILT., gray with some bands of brown-orange mottling, faint hydrocarbon odor (80-20-0).**	
		12 24 33	100	19.1	B209-08	SM		**Moist to wet, medium dense, silty fine SAND, micaceous sand, gray and brown, faint hydrocarbon odor (30-70-0).**	
10		50/5	300	9.0	B209-10	SP-SM		**Wet, very dense, fine to medium SAND, some silt, brown, no hydrocarbon odor (10-90-0).**	
		50/6	300	3.8	B209-12.5	SP-SM		**Same as above.**	
15		50/6	200	1.9	B209-15	SP-SM		**Wet, very dense, fine to medium SAND, some silt, brown-gray, no hydrocarbon odor (10-90-0).**	
								Boring terminated at 15.5 feet below ground surface and backfilled with bentonite to surface grade.	
20									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8" auger	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	15.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:			**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	3/28/12
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	3/29/12

BORING LOG B210

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: 8 feet bgs

Water Depth After Completion: feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100		B210-0.5	Fill		**Moist, gravelly, fine to medium SAND, some silt, organics, brown, no hydrocarbon odor (10-60-30).**	
		15 25 26	90	100.6	B210-02.5	ML		**Moist, very stiff, fine sandy SILT, blue-gray, strong hydrocarbon odor (65-35-0). Driller reports product and sheen on soil cuttings.**	
5		17 30 50/6	80	158	B210-04.5	ML		**Moist, hard, SILT, some fine sand, gray with some brown-orange mottling, hydrocarbon odor, product on sample (85-15-0).**	
		20 25 25	90	2.2	B210-06.5	ML		**Moist, very stiff, SILT, some fine sand, gray with some brown, hydrocarbon odor (85-15-0).**	
		45 50/6	100	83.1	B210-08	SM		**Moist, medium dense, silty fine SAND, brown, faint hydrocarbon odor (30-70-0). Wet, very dense, fine SAND, some silt, gray, strong hydrocarbon odor, product on sample (15-85-0).**	
10		50/6	125	2.9	B210-10	SP-SM		**Same as above, less silt.**	
		40 50/6	150	3.0	B210-12.5	SP		**Moist, very dense, fine to medium SAND, some silt, gray, faint hydrocarbon odor (10-90-0).**	
15		44 50/6	150	2.2	B210-15	SP		**Same as above.**	
								Boring terminated at 16 feet below ground surface and backfilled with bentonite to surface grade.	
20									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diamter:**	8" auger	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**		feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**		inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**			
Total Boring Depth:	16	feet bgs	**Surface Seal:**			
Total Well Depth:		feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:			**Monument Type:**			

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	3/28/12
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	3/29/12

BORING LOG B211

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: 6.5 feet bgs
Water Depth After Completion: feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100		B211-0.5	SP-SM		**Wet, silty, gravelly, fine to medium SAND, brown, no hydrocarbon odor (15-55-30).**	
		8 10 12	90	144	B211-02.5	ML		**Moist, stiff, SILT, some fine sand, gray with brown, strong hydrocarbon odor, product on sample (85-15-0).**	
5		10 18 20	80	18.7	B211-04.5	ML		**Moist, very stiff, SILT, some fine sand, brown with some gray, hydrocarbon odor (90-10-0).**	
		14 38 30	75	181	B211-06.5	ML		**Same as above, hard, sample wet with minor sheen.**	
		18 30 30	50	--	B211-08	SM		**Moist, medium dense, fine SAND, some silt, gray, hydrocarbon odor (15-85-0).**	
10		25 50/6	150	0.6	B211-10	SM		**Wet, very dense, fine SAND, some silt, gray, faint hydrocarbon odor (15-85-0).**	
		20 50/6	150	0.0	B211-12.5	SP-SM		**Same as above, less silt (10-90-0).**	
15		30 50/6	150	0.9	B211-15	SP-SM		**Moist, very dense, fine to medium SAND, some silt, gray, no hydrocarbon odor (10-90-0).**	
								Boring terminated at 16 feet below ground surface and backfilled with bentonite to surface grade.	
20									

Drilling Co./Driller:	Cascade/Curtis		**Well/Auger Diamter:**	4.25	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	1" SPT		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	16	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	3/28/12
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	3/29/12

BORING LOG B212

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: 7 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100			SP-SM		**Wet, silty, gravelly, fine to medium SAND, black, hydrocarbon odor, slight sheen on water (15-60-25).**	
		3 4 18	90	0.0	B212-02.5	ML		**Product in slough. Moist, stiff, SILT, some fine sand, gray-blue, some oxidation, faint hydrocarbon odor (85-15-0).**	
5		8 10 15	90	5.0	B212-04.5	ML		**Moist, stiff, fine sandy SILT, increasing sand with depth, gray-brown, product on sample, hydrocarbon odor (70-30-0).**	
		20 30 50	60	306	B212-06.5	SM		**Moist to wet, dense, silty fine SAND, less silt with depth, gray with orange banding, hydrocarbon odor, sheen on water (15-85-0).**	
		15 18 20	70	50.9	B212-08	SP-SM		**Sheen on slough. Moist, medium dense, fine SAND, some silt, gray, strong hydrocarbon odor (10-90-0).**	
10		30 50/6	100	7.7	B212-10	SM		**Sheen on slough. Moist, dense, fine SAND, some silt, brown, possible faint hydrocarbon odor (15-85-0).**	
		22 25 30	100	7.0	B212-12.5	SP-SM		**Moist, medium dense, fine to medium SAND, some silt, gray, no hydrocarbon odor (10-90-0).**	
15		30 50/6	125	0.3	B212-15	SP-SM		**Moist, dense, fine to medium SAND, some silt, gray, no hydrocarbon odor (10-90-0).**	
								Boring terminated at 16 feet below ground surface and backfilled with bentonite to surface grade.	
20									

Drilling Co./Driller:	Casace/Curtis		**Well/Auger Diamter:**	4.25	inches
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs
Sampler Type:	1" SPT		**Screen Slot Size:**	--	inches
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--	
Total Boring Depth:	16	feet bgs	**Surface Seal:**	--	
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	--		**Monument Type:**	--	

Notes/Comments:

PID recalibrated after 4.5-foot-deep sample due to inconsistent readings.

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	JAB
Date Started:	3/29/12
Surface Conditions:	Asphalt
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	3/29/12

BORING LOG B213

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: 1.9 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100	--	B213-0.5	SM		**Damp, SILT with fine to coarse sand, trace gravel, trace roots, light brown, no hydrocarbon odor.**	
								Moist, SILT with fine sand, trace coarse gravel and cobbles, light brown with dark brown mottling, no hydrocarbon odor.	
								Boring terminated at 2 feet below ground surface, backfilled with bentonite, and patched with concrete to surface grade.	
5									
10									

Drilling Co./Driller:	SES		**Well/Auger Diamter:**	~8"	inches	**Notes/Comments:**
Drilling Equipment:	Hand Auger		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Hand Auger		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	2	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	3/29/12
Surface Conditions:	Concrete
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	3/30/12

BORING LOG B214

Site Address: 2737 West Commodore Way, Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0									
			100	31.2	B214-0.5	Concrete		**Concrete (4 inches thick), silty fine to medium sand, black, hydrocarbon odor.**	
						ML		**Moist, sandy SILT, fine sand, blue-gray, strong hydrocarbon odor (80-20-0).**	
		12 19 23	90	411	B214-02.5	SM-ML		**Moist, medium dense, silty fine SAND to fine sandy SILT, gray-brown, hydrocarbon odor (40-60-0).**	
						ML		**Moist, very stiff, fine sandy, SILT, brown, hydrocarbon odor (80-20-0).**	
			100	37.1	B214-04.5	SM		**Moist, silty fine SAND, light brown with some oxidation, strong hydrocarbon odor (25-75-0).**	
5		--							
		16 18 25	75	393	B214-06.5	SM		**Moist, medium dense, silty fine SAND, light brown, minor orange coloring, hydrocarbon odor (15-85-0).**	
		14 18 19	100	511	B214-08	ML		**Moist, very stiff, fine sandy SILT, blue-gray, hydrocarbon odor (80-20-0).**	
						SM		**Moist, medium dense, silty fine SAND, light brown, hydrocarbon odor (15-85-0).**	
10		18 20 26	0	--				**No recovery.**	
								Boring terminated at 11.5 feet below ground surface, backfilled with bentonite, and patched with concrete to surface grade.	
15									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8"	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	Concrete cored prior to drilling.
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	11.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	JAB and EBF
Date Started:	3/30/12
Surface Conditions:	Concrete
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	3/30/12

BORING LOG B215

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete (6 inches).**	
			100	0.0	B215-0.5	SM		**Wet, silty, fine to coarse SAND, some gravel, light brown, with trace roots and organics, no hydrocarbon odor, sheen on water in boring (40-45-15) (FILL). (Boring hand cleared to 2.5 feet below ground surface [bgs]).**	
		5 15 15	90	106	B215-02.5	ML		**Moist, very stiff, fine sandy SILT, blue-gray, hydrocarbon odor (75-25-0).**	
						SM		**Moist, medium dense, silty fine SAND, gray (20-80-0).**	
		11 15 6	100	28.6	B215-04.5	SM		**Same as above.**	
5						ML		**Moist, stiff, fine sandy SILT, brown, with oxidation (75-25-0).**	
						SM		**Moist, loose, silty fine SAND, gray, no hydrocarbon odor (30-70-0).**	
		11 16 15	80	4.7	B215-06.5	SM		**Same as above.**	
						ML		**Moist, very stiff, fine sandy SILT, light brown, no hydrocarbon odor (80-20-0).**	
		14 14 17	80	3.0	B215-08	SM		**Moist, medium dense, silty fine SAND, decreasing silt with depth, brown to gray with oxidation, no hydrocarbon odor (30-70-0).**	
10		50/6	25	15.8	B215-10	SM		**Moist, very dense, silty fine SAND, light brown, no hydrocarbon odor (20-80-0).**	
								Boring terminated at 10.5 feet bgs, backfilled with bentonite, and patched with concrete to surface grade.	
15									

Drilling Co./Driller:	Cascade		**Well/Auger Diamter:**	~8"	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	10.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	3/29/12
Surface Conditions:	Concrete
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	3/30/12

BORING LOG B216

Site Address: 2737 West Commodore Way, Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100	506	B216-0.5	SM		**Concrete (5 inches), silty, fine to medium SAND, dark brown (FILL).**	
						ML		**Moist, fine sandy SILT, blue-gray, strong hydrocarbon odor (80-20-0).**	
		8 12 21	100	785	B216-02.5	ML		**Same as above.** **Moist, very stiff, SILT, some fine sand, brown, with orange oxidation (85-15-0).** **Moist, very stiff, fine sandy SILT, gray, hydrocarbon odor (60-40-0).**	
5		16 16 21	80	588	B216-04.5	SM		**Moist, medium dense, silty fine SAND, gray, hydrocarbon odor (30-70-0).**	
		21 22 23	90	385	B216-06.5	SM		**Moist, medium dense, silty fine SAND, brown, hydrocarbon odor (15-85-0).**	
		20 20 20	100	36.7	B216-08				
10		20 29 30	50	482	B216-10	SM		**Moist, medium dense, silty fine SAND, gray-brown, hydrocarbon odor (15-85-0).**	
								Boring terminated at 11.5 feet below ground surface, backfilled with bentonite, and patched with concrete to surface grade.	
15									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8"	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	11.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	3/30/12
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	3/30/12

BORING LOG B217

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100	0.0	B217-0.5	SP-SM		**Moist, silty, fine sandy GRAVEL, brown to dark brown, organics, concrete chunks, stong hydrocarbon odor at 1 foot below ground surface (15-40-55) (FILL).**	
						ML		**Moist, very hard, fine sandy SILT, wood fragments, blue gray, hydrocarbon odor (75-25-0).**	
		15 20 23	100	15.1	B217-02.5	ML		**Moist, very stiff, SILT with fine sand, brown to gray, faint hydrocarbon odor (80-20-0).**	
5		12 12 18	75	420	B217-04.5	ML		**Moist, very stiff, fine sandy SILT, gray, hydrocarbon odor (70-30-0).**	
						SM		**Moist, medium dense, silty fine SAND, brown, faint hydrocarbon odor (40-60-0).**	
		13 14 15	100	322	B217-06.5	SM-ML		**Moist, medium dense, silty fine SAND to sandy silt, gray, strong hydrocarbon odor (45-55-0).**	
		12 14 14	60	58.3	B217-08	SM		**Moist, medium dense, silty fine SAND, gray, hydrocarbon odor (25-75-0).**	
10		20 50/6	100	639	B217-10	SM		**Moist, very dense, silty fine SAND, increasing sand content with depth, gray to brown (at 10.5 feet below ground surface) (25-75-0) to (15-85-0).**	
								Boring terminated at 11.0 feet below ground surface and backfilled with bentonite.	
15									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8"	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	11.0	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	---		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	3/30/12
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	3/30/12

BORING LOG B218

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100		B218-0.5	GP-GM		**Wet, silty, coarse sandy GRAVEL, brown, no hydrocarbon odor (15-35-50) (FILL).**	
						ML		**Moist, fine sandy SILT. Boring hand cleared to 2.5 feet below ground surface (bgs).**	
		6 12 10	75	0.0	B218-02.5	SM		**Moist, silty fine SAND, gray, no hydrocarbon odor (20-80-0).**	
						ML		**Moist, very stiff, SILT, some fine sand, brown to gray, no hydrocarbon odor (85-15-0).**	
5		7 11 13	90	0.0	B218-04.5	ML		**Moist, very stiff, SILT, some fine sand, gray to brown, some oxidation, no hydrocarbon odor (90-10-0).**	
		11 11	100	0.0	B218-06.5	ML		**Same as above.**	
		12 18 19 26	100	0.0	B218-08	SM-ML		**Moist, silty fine SAND to sandy silt, brown with oxidation to gray with depth, no hydrocarbon odor (45-55-0).**	
						SM		**Moist, medium dense, silty fine SAND, brown, no hydrocarbon odor (20-80-0).**	
10		50/6	100	0.0	B218-10	SM		**Same as above.**	
								Boring terminated at 10.5 feet bgs and backfilled with bentonite to surface grade.	
15									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8"	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	10.5	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	3/30/12
Surface Conditions:	Asphalt
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	3/30/12

BORING LOG B219

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100		B219-0.5	GP-GM		**Asphalt (3 inches). Wet, silty, fine to coarse, sandy GRAVEL, brown (25-35-40) (FILL).**	
						ML		**Wet, fine sandy SILT, gray-blue, sheen on water in hand cleared hole (80-20-0).**	
		7 14 16	80	17.2	B219-02.5	ML		**Moist, stiff, fine sandy SILT, gray-blue, with some brown/orange coloration, no hydrocarbon odor (80-20-0).**	
5		15 18 20	100	1.6	B219-04.5	SM		**Wet, silty fine SAND, gray, hydrocarbon odor (30-70-0).**	
						ML		**Moist, very stiff, SILT, some fine sand, brown, no hydrocarbon odor (85-15-0).**	
		13 13 20	100	0.0	B219-06.5	ML		**Moist, very stiff, fine sandy SILT, brown with oxidation, no hydrocarbon odor (80-20-0).**	
		18 19 22	100	0.0	B219-08	ML		**Same as above.**	
10		14 14 14	90	0.3	B219-10	SM		**Moist, medium dense, silty fine SAND, brown, no hydrocarbon odor (20-80-0).**	
								Boring terminated at 11.5 feet below ground surface, backfilled with bentonite, and patched with concrete to surface grade.	
15									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8"	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	11.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	3/30/12
Surface Conditions:	Asphalt
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	3/30/12

BORING LOG B220

Site Address: 2737 West Commodore Way, Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100		B220-0.5	Asphalt / GP-GM		**Asphalt (3 inches). Wet, silty, sandy, GRAVEL (FILL).**	
		5 17 20	100	0.0	B220-02.5	ML		**Moist, stiff, SILT, some fine sand, brown with oxidation (85-15-0).**	
						SM		**Moist, silty fine SAND, gray, no hydrocarbon odor (20-80-0).**	
5		15 19 21	90	0.0	B220-04.5	ML		**Moist, very stiff, SILT, some fine sand, gray-brown with bands of orange coloring (at 5 feet below ground surface), no hydrocarbon odor (85-15-0).**	
		6 9 7	100	0.0	B220-06.5	ML		**Moist, stiff, fine sandy SILT, increasing sand with depth, gray-brown, with bands of orange (70-30-0).**	
		17 17 20	100	0.0	B220-08	SM		**Moist, medium dense, silty fine SAND, gray-brown with orange coloring, no hydrocarbon odor (20-80-0).**	
10		50/6	100	0.0	B220-10	SM		**Same as above, brown.**	
								Boring terminated at 10.5 feet below ground surface, backfilled with bentonite, and patched with concrete to surface grade.	
15									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8"	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	10.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	4/6/12
Surface Conditions:	Concrete
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	4/6/12

BORING LOG B221

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: 12.5 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete (8 inches).**	
					B221-01	ML		**Moist, fine sandy SILT, gray, strong hydrocarbon odor.**	
		4 10 13	100	109	B221-02.5	ML		**Moist, fine sandy SILT, blue-gray, strong hydrocarbon odor (60-40-0).**	
						SM		**Moist, silty fine SAND, brown, hydrocarbon odor (30-70-0).**	
5		10 10 10	100	175	B221-04.5	ML ML		**Moist, very stiff, fine sandy SILT, brown with orange (80-20-0).** **Moist, stiff, fine sandy SILT, gray with orange banding, hydrocarbon odor (60-40-0).**	
		11 14 21	80	159	B221-06.5	SM		**Moist, medium dense, silty fine SAND, gray-brown, hydrocarbon odor (15-85-0).**	
		15 50/6	125	215	B221-08	SM-SP		**Moist, very dense, fine SAND, some silt, gray-brown, strong hydrocarbon odor (10-90-0).**	
10		50/6	200	251	B221-10	SM-SP		**Moist, very dense, fine SAND, some silt, gray, strong hydrocarbon odor (10-90-0).**	
		50/6	150	231	B221-12.5	SM-SP		**Wet, very dense, fine to medium SAND, some silt, brown-gray, product on sample, strong hydrocarbon odor (10-90-0).**	
15		50/6	30	--	B221-15	SM-SP		**Same as above, wet, coarsening with depth.**	
								Boring terminated at 15.5 feet below ground surface, backfilled with bentonite, and patched with concrete to surface grade.	
20									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8"	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	15.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	4/6/12
Surface Conditions:	Concrete
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	4/6/12

BORING LOG B222

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: 8 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100		B222-01	ML		**Concrete (6 inches). SILT with fine sand, brown, with orange mottling and trace organics.**	
		8 10 16	90	102	B222-02.5	ML		**Moist, very stiff, fine sandy SILT, gray with orange mottling, strong hydrocarbon odor, product on sample (80-20-0).**	
5		6 10 14	90	155	B222-04.5	SM		**Moist, stiff, silty fine SAND, blue-gray, very strong hydrocarbon odor, product on sample (40-60-0).**	
						ML		**Moist, stiff, fine sandy SILT, brown, with orange mottling (80-20-0).**	
		7 11 14	100	63	B222-06.5	ML		**Moist, stiff, fine sandy SILT with lenses of silty sand, brown to gray at 7.5 feet below ground surface (65-35-0).**	
		18 18 30	100	2.2	B222-08	SM		**Moist, loose, silty fine SAND, micaceous, gray, hydrocarbon odor (30-70-0).**	
								Same as above, wet, brown-gray, faint hydrocarbon odor (20-80-0).	
10		50/6	300	5.9	B222-10	SM		**Moist, very dense, fine SAND, some silt, brown, no hydrocarbon odor (15-85-0).**	
		50/6	150	2.4	B222-12.5	SM-SP		**Wet, very dense, fine to medium SAND, some silt, brown-gray, no hydrocarbon odor (10-90-0).**	
15		50/6	300	10.1	B222-15	SM		**Wet, very dense, fine to medium SAND, some silt; silt clumps, gray, no hydrocarbon odor (15-85-0).**	
								Boring terminated at 15.5 feet below ground surface, backfilled with bentonite chips, and patched with concrete to surface grade.	
20									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8"	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	15.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	4/6/12
Surface Conditions:	Concrete
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	4/6/12

BORING LOG B223

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: 10 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100						
		13 16 20	75	8.5	B223-02.5	ML		**Concrete (6 inches).** **Moist, very stiff, SILT, some fine sand, gray with brown mottling, strong hydrocarbon odor, product on sample (85-15-0).**	
5		10 12 14	90	234	B223-04.5	ML		**Moist, very stiff, fine sandy SILT, gray and brown (80-20-0).**	
		9 14 14	100	241	B223-06.5	ML		**Same as above.**	
						SM-ML		**Moist, medium dense, silty fine SAND to sandy SILT, gray, hydrocarbon odor (50-50-0).**	
		12 20 26	75	157	B223-08	ML		**Moist, very stiff, fine sandy SILT, brown-gray (75-25-0).**	
						SM		**Moist, medium dense, silty fine SAND, brown, hydrocarbon odor (20-80-0).**	
10		50/6	100	44.2	B223-10	SM		**Wet, very dense, fine SAND, some silt, gray with some brown mottling, faint hydrocarbon odor (15-85-0).**	
		14 14 14	90	1.4	B223-12.5	SM-SP		**Wet, medium dense, fine to medium SAND, some silt, gray with orange banding, no hydrocarbon odor (10-90-0).**	
15		50/6	300	44	B223-15	SM		**Moist, very dense, fine to medium SAND, some silt; silt clumps, gray with orange coloration, no hydrocarbon odor (15-85-0).**	
								Boring terminated at 15.5 feet below ground surface (bgs), backfilled with bentonite, and patched with concrete to surface grade.	
20									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8"	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs	Boring located in manifold pit at approximately 2 feet bgs. Depth bgs measured from top of manifold pit.
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	15.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project: TOC Holdings Co. Facility No. 01-600
Project Number: 0440-004-27
Logged by: EBF
Date Started: 4/6/12
Surface Conditions: Concrete
Well Location N/S:
Well Location E/W:
Reviewed by: JAC
Date Completed: 4/6/12

BORING LOG B224

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: 6.5 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0									
								Concrete (6 inches).	
		8 13 20	100	1.1	B224-02.5	ML		**Moist, stiff, fine sandy SILT, gray, no hydrocarbon odor (70-30-0).**	
5		50/6	300	4.5	B224-04.5	ML		**Moist, hard, fine sandy SILT, gray with orange mottling, no hydrocarbon odor (80-20-0).**	
		17 50/6	150	59	B224-06.5	SM		**Wet, very dense, silty fine SAND, gray, faint hydrocarbon odor (25-75-0).**	
		50/5	125	100	B224-08	SM		**Wet to moist, very dense, silty fine SAND, gray with some black coloring, hydrocarbon odor (20-80-0).**	
10		50/6	300	1.9	B224-10	SM		**Wet, very dense, silty fine SAND, brown-gray, faint hydrocarbon odor (15-85-0).**	
		50/6	200	19.5	B224-12.5	SM-SP		**Wet, very dense, fine to medium SAND, some silt, gray, no hydrocarbon odor (10-90-0).**	
15		50/6	300	7.7	B224-15	SM-SP		**Same as above.**	
								Boring terminated at 15.5 feet below ground surface (bgs), backfilled with bentonite, and patched with concrete to surface grade.	
20									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	8"	inches
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	--	feet bgs
Sampler Type:	Dames and Moore		**Screen Slot Size:**	--	inches
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	--	
Total Boring Depth:	15.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	--		**Monument Type:**	--	

Notes/Comments:

Boring located in manifold pit at approximately 2 feet bgs. Depth bgs measured from top of manifold pit.

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	5/11/12
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	5/11/12

BORING LOG B234

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100	1.7	B234-0.5	SM-SP		**Quarry spall. Moist, silty, gravelly fine SAND, brown, no hydrocarbon odor (10-60-30).**	
			100	67.7	B234-02.5	ML		**Moist, fine sandy SILT, gray, hydrocarbon odor (60-40-0).**	
5								**Boring terminated at 2.5 feet below ground surface, backfilled with bentonite, and patched with concrete to surface grade.**	
10									

Drilling Co./Driller:	SoundEarth Construction		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Post-hole		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Grab		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	2.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	5/11/12
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	5/11/12

BORING LOG B235

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100	1.7	B235-0.5	SP		**Moist, gravelly fine SAND to sandy GRAVEL, some silt, brown, some organics, no hydrocarbon odor (FILL) (10-50-40).**	
			100	74.6	B235-02.5	ML		**Moist, fine sandy SILT, blue-gray with some brown, hydrocarbon odor (60-40-0).**	
5			100	571	B235-04.5			**Same as above, gray-blue, strong hydrocarbon odor (75-25-0).**	
			100	805	B235-06.5			**Same as above, brown and gray.**	
								Boring terminated at 6.5 feet below ground surface, backfilled with bentonite, and patched with concrete to surface grade.	
10									

Drilling Co./Driller:	SoundEarth Construction		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Hand auger		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Hand auger		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	6.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	5/11/12
Surface Conditions:	Concrete
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	5/11/12

BORING LOG B236

Site Address: 2737 West Commodore Way, Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0			100	124.2	B236-0.5	SM-SP		**Concrete (6 inches). Moist to wet, silty, gravelly, fine SAND, fine gravel, coarse sand, dark brown to black, hydrocarbon odor (20-60-20).**	
			100	596	B236-02.5	ML		**Moist, fine sandy SILT, gray-blue to gray-brown, hydrocarbon odor (70-30-0).**	
								Moist, fine sandy SILT, brown-gray, hydrocarbon odor (75-25-0).	
5			100	159.3	B236-04.5			**Moist, fine sandy SILT, gray-brown, hydrocarbon odor (80-20-0).**	
			100	349	B236-06.5				
								Boring terminated at 6.5 feet below ground surface, backfilled with bentonite, and patched with concrete to surface grade.	
10									

Drilling Co./Driller:	SoundEarth Construction		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Hand Auger		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Hand Auger		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	6.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	5/11/12
Surface Conditions:	Concrete
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	5/14/12

BORING LOG B237

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete (6 inches).**	
			100	126	B237-0.5	SM		**Wet, fine to coarse SAND, some silt, black, faint hydrocarbon odor (15-85-0).**	
						ML		**Moist, fine sandy SILT, gray, strong hydrocarbon odor (65-35-0).**	
			100	201	B237-02.5			**Moist, fine sandy SILT, brown with gray, hydrocarbon odor (80-20-0).**	
			100	73	B237-04.5				
5						SM		**Moist, silty fine SAND, brown-gray, strong hydrocarbon odor (15-85-0).**	
			100	476	B237-06.5				
								Boring terminated at 6.5 feet below ground surface, backfilled with bentonite, and patched with concrete to surface grade.	
10									

Drilling Co./Driller:	SoundEarth Construction		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Hand Auger		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Hand Auger		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	6.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004-27
Logged by:	EBF
Date Started:	5/11/12
Surface Conditions:	Asphalt
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	5/14/12

BORING LOG B238

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Asphalt (1 inch) and concrete (5 inches).**	
			100	95.7	B238-0.5	ML		**Moist, fine sandy SILT, gray, strong hydrocarbon odor (60-40-0).**	
			100	52.6	B238-02.5			**Moist, fine sandy SILT, gray-brown, faint hydrocarbon odor (75-25-0).**	
5			100	444	B238-04.5			**Moist, fine sandy SILT, gray-brown with some orange mottling, strong hydrocarbon odor (70-30-0).**	
			100	50.1	B238-06.5			**Moist, fine sandy SILT, gray-brown with orange mottling, faint hydrocarbon odor (80-20-0).**	
								Boring terminated at 6.5 feet below ground surface (bgs), backfilled with bentonite, and patched with concrete to surface grade.	
10									

Drilling Co./Driller:	SoundEarth Construction		**Well/Auger Diamter:**	--	inches
Drilling Equipment:	Hand Auger		**Well Screened Interval:**	--	feet bgs
Sampler Type:	Hand Auger		**Screen Slot Size:**	--	inches
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--	
Total Boring Depth:	6.5	feet bgs	**Surface Seal:**	Concrete	
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	--		**Monument Type:**	--	

Notes/Comments:

Depth bgs measured from western edge of boring. Boring located on asphalt slope.

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004
Logged by:	EBF
Date Started:	7/9/12
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	7/9/12

BORING LOG B240

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0					B240-0.5	**Fill**		**Bentonite and gravel**	
						SM		**Silty SAND (fine) with gravel, damp, brown, hydrocarbon odor (15-65-20).** **Same as above, rounded gravel, dark brown, faint hydrocarbon odor (20-60-20).**	
						ML		**Sandy SILT (fine), few gravels, gray, hydrocarbon odor (60-30-10).**	
					B240-02.5	**SM**		**Silty SAND with gravel (coarse), brown, faint hydrocarbon odor (20-65-15).**	
								Boring terminated at 2.5 feet below ground surface and backfilled with bentonite to surface grade.	
5									

Drilling Co./Driller:	SoundEarth		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Hand Auger		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Hand Auger		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	2.5	feet bgs	**Surface Seal:**	Bentonite		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004
Logged by:	EBF
Date Started:	7/9/12
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	7/9/12

BORING LOG B241

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0						**Fill**		**Bentonite and gravel**	
					B241-0.5	**SM**		**Silty SAND (fine) with gravel (coarse), brown, hydrocarbon odor.**	
						ML		**SILT with sand (fine), few gravels, moist, gray, some orange coloration, hydrocarbon odor (50-15-5).**	
					B241-02.5	**SM**		**Silty SAND (fine to medium), few gravels, brown to light brown, faint hydrocarbon odor (15-75-10).**	
								Boring terminated at 2.5 feet below ground surface and backfilled with bentonite to surface grade.	
5									

Drilling Co./Driller:	SoundEarth		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Hand Auger/Post-hole		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Hand Auger		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	2.5	feet bgs	**Surface Seal:**	Bentonite		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004
Logged by:	EBF
Date Started:	7/11/12
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	7/11/12

BORING LOG B242

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Gravel**	
					B242-0.5	**SM**		**Silty SAND (fine) with angular to subrounded gravel, moist, brown, some organics, no hydrocarbon odor (15-60-25).** **At 8 inches below ground surface - dark brown, light non-aqueous phase liquid, strong hydrocarbon odor.**	
						ML		**Sandy SILT (fine), few coarse gravels, blue gray, strong hydrocarbon odor (55-35-10).**	
					B242-02.5	**SM**		**Silty SAND (fine), trace coarse gravel, moist, brown, faint hydrocarbon odor (20-75-5).**	
								Boring terminated at 2.6 feet below ground surface and backfilled with bentonite to surface grade.	
5									

Drilling Co./Driller:	SoundEarth		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Rock bar/Spade		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Rock bar/Spade		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	2.6	feet bgs	**Surface Seal:**	Bentonite		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004
Logged by:	JAB
Date Started:	7/13/12
Surface Conditions:	Concrete
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	7/13/12

BORING LOG B250

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete**	
						GP		**Angular GRAVEL with silt, trace sand (fine), moist, gray (FILL) (10-5-85).**	
					B250-03.3	**SM**		**Silty SAND (fine to coarse) with trace gravel and cobbles, brown, no hydrocarbon odor (35-60-5).**	
								Boring terminated at 3.5 feet below ground surface and backfilled with bentonite to surface grade.	
5									

Drilling Co./Driller:	SoundEarth		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Hand Auger		**Well Screened Interval:**	--	feet bgs	Pipe to North of 3.5 foot sample, large rock or obstruction at 3.55 feet below ground surface.
Sampler Type:	Hand Auger		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	3.5	feet bgs	**Surface Seal:**	Bentonite		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004
Logged by:	JAB
Date Started:	7/13/12
Surface Conditions:	Concrete
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	7/13/12

BORING LOG B251

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete**	
					B251-0.5	**SM**		**Silty SAND (fine), trace gravel (fine), moist, light gray, strong hydrocarbon odor, no visible product (15-80-5).**	
					B251-02.5				
								Boring terminated at 2.6 feet below ground surface and backfilled with bentonite to surface grade.	
5									

Drilling Co./Driller:	SoundEarth		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Hand Auger		**Well Screened Interval:**	--	feet bgs	Pipe on North side of hole at 1 foot and 2.5 feet below ground surface.
Sampler Type:	Hand Auger		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	2.6	feet bgs	**Surface Seal:**	Bentonite		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004
Logged by:	JAB
Date Started:	7/16/12
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	7/16/12

BORING LOG B252

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Quarry Spalls**	
					B252-1.3	**ML**		**Sandy SILT (fine to coarse) with gravel, trace organics (wood debris and roots), dark brown, moderate hydrocarbon odor (50-30-20).** **Sandy SILT (fine to coarse), few gravels, trace organics (roots), dark brown, faint hydrocarbon odor (60-30-10).**	
					B252-03.3				
								Boring terminated at 3.5 feet below ground surface and backfilled with bentonite to surface grade.	
5									

Drilling Co./Driller:	SoundEarth		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Hand Auger		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Hand Auger		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	3.5	feet bgs	**Surface Seal:**	Bentonite		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004
Logged by:	JAB
Date Started:	7/16/12
Surface Conditions:	Concrete
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	7/16/12

BORING LOG B253

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete**	
						SP-SM		**SAND (fine to medium) with silt, gray, strong hydrocarbon odor (10-90-0).**	
					B253-01.5	**ML**		**SILT with sand (fine), trace organics, moist, brown, faint hydrocarbon odor (85-15-0).**	
					B253-03.5			**Sandy SILT (fine), wet, gray, strong hydrocarbon odor (65-35-0).**	
								Boring terminated at 3.6 feet below ground surface and backfilled with bentonite to surface grade.	
5									

Drilling Co./Driller:	SoundEarth		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Hand Auger		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Hand Auger		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	3.6	feet bgs	**Surface Seal:**	Bentonite		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004
Logged by:	EBF
Date Started:	7/16/12
Surface Conditions:	Asphalt
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	7/16/12

BORING LOG B254

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Asphalt**	
						SM		**Silty SAND (fine) with subrounded gravel (fine), moist, brown, no hydrocarbon odor (15-70-15).**	
					B254-01.3	**SP-SM**		**SAND (fine to coarse) with silt, moist, brown, no hydrocarbon odor (10-80-10).**	
						ML		**Sandy SILT (fine), gray, no hydrocarbon odor (60-30-10).**	
					B254-03.3	**SP-SM**		**SAND (fine to medium) with silt, trace gravel, some organics, moist, no hydrocarbon odor (10-85-5).**	
5								**Boring terminated at 3.5 feet below ground surface and backfilled with bentonite to surface grade.**	

Drilling Co./Driller:	SoundEarth		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Hand Auger		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Hand Auger		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	3.5	feet bgs	**Surface Seal:**	Bentonite		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004
Logged by:	EBF
Date Started:	7/27/12
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	7/27/12

BORING LOG B257

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Gravel**	
					B257-01	**GP-GM**		**Angular GRAVEL (fine) with silt and sand (fine), trace organics, moist, brown, no hydrocarbon odor (10-25-65).**	
						GM-SM		**Silty, angular GRAVEL (medium) with sand (medium) to silty SAND with gravel, dark ~~brown/black, strong hydrocarbon odor (20-40-40).~~**	
					B257-02	**SM**		**Silty SAND (fine to medium) with angular gravel (fine), large piece of wood at 1.5 feet below ground surfaceblack, hydrocarbon odor (15-50-35).**	
					B257-02.8			**Silty SAND (fine), trace gravel, gray, strong hydrocarbon odor (45-50-5).**	
								Boring terminated at 2.8 feet below ground surface and backfilled with bentonite to surface grade.	
5									

Drilling Co./Driller:	SoundEarth		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Hand Auger		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Hand Auger		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	2.8	feet bgs	**Surface Seal:**	Bentonite		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project:	TOC Holdings Co. Facility No. 01-600
Project Number:	0440-004
Logged by:	EBF
Date Started:	8/29/12
Surface Conditions:	Gravel
Well Location N/S:	
Well Location E/W:	
Reviewed by:	JAC
Date Completed:	8/29/12

BORING LOG B263

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0					B263-45.7			**Gravel**	
					B263-44.2			**Silty SAND (fine to coarse) few gravels, moist, brown, no hydrocarbon odor (25-65-10).** **Silty SAND (fine), trace gravel, moist, brown, no hydrocarbon odor (15-80-5).**	
5								**Boring terminated at 2.1 feet below ground surface and backfilled with bentonite to surface grade.**	

Drilling Co./Driller:	SoundEarth		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	Hand Auger		**Well Screened Interval:**	--	feet bgs	
Sampler Type:	Post-hole digger		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	--	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	2.1	feet bgs	**Surface Seal:**	Bentonite		
Total Well Depth:	--	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project: Seattle Terminal Properties 01-600
Project Number: 0440-004-22
Logged by: PJK
Date Started: 06/11/10
Surface Conditions: Concrete
Well Location N/S: --
Well Location E/W: --
Reviewed by: Draft
Date Completed: 06/11/10

BORING LOG | F8IW01

F8IW01

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0		1 3 7	100	10.2		ML		**Damp, SILT with trace fine sand and gravel (90-5-5). Greenish-gray, faint hydrocarbon odor.**	
		3 8 16	100	20.2	F8IW01-02.5	ML		**Damp, SILT with some fine sand (90-10-0). 2" thick sand lens at 4.5' bgs. Gray, with some greenish-gray discoloration. Moderate hydrocarbon odor.**	
5		8 10 12	100	30.2	F8IW01-04.5	ML		**Damp, same as above. Brownish-gray.**	
					F8IW01-06	SM		**Moist, silty fine SAND (40-60-0). Gray, moderate hydrocarbon odor.**	
10								**Augered directly to 20' bgs.**	
15									

Drilling Co./Driller: Cascade/Dave
Drilling Equipment: HSA
Sampler Type: --
Hammer Type/Weight: 300 lbs
Total Boring Depth: 20 feet bgs
Total Well Depth: 19.5 feet bgs
State Well ID No.: --

Well/Auger Diameter: 2" inches
Well Screened Interval: 4.5 feet bgs
Screen Slot Size: 19.5 inches
Filter Pack Used: 2/12 Sand
Surface Seal: Cement
Annular Seal: Bentonite
Monument Type: Stickup

Notes/Comments:
PID readings collected directly from sampler.

SoundEarth Strategies

Project: Seattle Terminal Properties 01-600
Project Number: 0440-004-22
Logged by: PJK
Date Started: 06/11/10
Surface Conditions: Concrete
Well Location N/S: --
Well Location E/W: --
Reviewed by: Draft
Date Completed: 06/11/10

BORING LOG | F8IW01

F8IW01

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15									
20								**Boring terminated at 20' bgs.**	
25									
30									

Drilling Co./Driller: Cascade/Dave
Drilling Equipment: HSA
Sampler Type: --
Hammer Type/Weight: 300 lbs
Total Boring Depth: 20 feet bgs
Total Well Depth: 19.5 feet bgs
State Well ID No.: --

Well/Auger Diameter: 2" inches
Well Screened Interval: 4.5 feet bgs
Screen Slot Size: 19.5 inches
Filter Pack Used: 2/12 Sand
Surface Seal: Cement
Annular Seal: Bentonite
Monument Type: Stickup

Notes/Comments:
PID readings collected directly from sampler.

SoundEarth Strategies

Project:	Seattle Terminal Properties 01-600
Project Number:	0440-004
Logged by:	JAB
Date Started:	06/09/10
Surface Conditions:	Gravel
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	JAC
Date Completed:	06/09/10

BORING LOG | G9IW01

G9IW01

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0									
		5 7 5	100	0.0	G9IW01-0.5	ML		**Gravel** **Moist, SILT with fine to coarse sand and fine to coarse gravel, trace organics, dark brown, no hydrocarbon odor (60-20-20).**	
		8 13 13	100	0.0	G9IW01-02.5			**Moist, SILT, some fine sand, gray with orange mottling, no hydrocarbon odor (90-10-0).**	
		8 12 15	100	0.0	G9IW01-04.5				
5		13 13 17	100	46.9	G9IW01-06			**Moist, SILT with fine sand, gray, strong hydrocarbon odor, product on sample (80-20-0).**	
10								**Drill straight to 21.5 feet below ground surface (bgs).**	
15									
20								**Boring terminated at 21.5 feet bgs.**	
25									

Drilling Co./Driller:	Cascade/Scott		**Well/Auger Diamter:**	2"	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	6 to 21	feet bgs	PID readings taken from sample surface.
Sampler Type:	CA-SS		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	21.5	feet bgs	**Surface Seal:**	Portland Cement		
Total Well Depth:	21	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	Stickup		

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard (Upper Yard)

Drilling Co./Driller:	Cascade / E. Floyd
Drilling Method:	Geoprobe
Location:	300' South and 140' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	15
First GW Depth:	11

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							SM	Dry, silty fine to coarse SAND with fine to coarse gravel. Brown. (FILL)		
1										
2			100				SP-SM	Moist, fine SAND with silt. Olive-brown, no petroleum hydrocarbon odor, no discoloration.		
3		0.0			GP01-4'			- becomes gray below 3 feet.	Mst	
4										
5							ML	Moist, SILT with fine to medium sand. Gray, no petroleum hydrocarbon odor, no discoloration.		
6			60							
7								- grades to SILT with clay and fine sand below 6 feet.		
8		0.0			GP01-8'				Mst	
9							SM	Moist, silty fine to medium SAND, with trace coarse sand, Gray, no petroleum hydrocarbon odor, no discoloration.		
10			80							
11		0.0			GP01-11'			Moist, fine SAND with silt, with trace medium- to coarse-grained sand, micaceous. Gray, no petroleum hydrocarbon odor, no discoloration.	▽ Wet	
12								- becomes wet to waterbearing below 11 feet.		
13							SP-SM			
14			100					- becomes fine- to medium-grained sand below 13 feet.		
15		0.0			GP01-15'				Wet	
16								Boring terminated at 15 feet below ground surface (bgs). Waterbearing conditions were encountered at 11 feet bgs during drilling. Water sample GP01 was obtained using a temporary well, screened from 10 to 15 feet bgs. Boring was abandoned using medium bentonite chips on 8/31/06.		
17										
18										
19										
20										

SOUND ENVIRONMENTAL STRATEGIES
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Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 8/31/2006
Date Finished: 8/31/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
GP01

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard (Upper Yard)

Drilling Co./Driller:	Cascade / E. Floyd
Drilling Method:	Geoprobe
Location:	300' South and 240' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	15
First GW Depth:	11

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0–2			95				SM	Dry to damp, silty fine to coarse SAND, with fine to coarse gravel. Brown to gray, no hydrocarbon odor, no discoloration (FILL).		
3–4		0.0			GP02-4'		ML	Damp SILT with clay. Gray with iron mottling, no petroleum hydrocarbon odor, no discoloration.	Dp	
5–6			100					- interbedded with 1-inch thick lenses of fine-grained SAND below 5 feet.		
7–8		0.0			GP02-8'		SM	- grades to SILT with fine sand below 6 feet. Moist, silty fine to medium SAND, micaceous. Olive-gray, no petroleum hydrocarbon odor, no discoloration.	Mst	
9–10			100				ML	Moist, SILT, with fine to medium sand, trace clay. Gray, no petroleum hydrocarbon odor, no discoloration.		
11–12		0.0			GP02-11'		SP-SM	Wet, fine- to medium-grained SAND, grey, micaceous, some silt, occasional coarse-grained sand, no petroleum hydrocarbon odor, no discoloration.	▽ Wet	
13–14			100					- grades to fine- to coarse-grained sand below 14 feet.		
14–15		0.0			GP02-15'				Wet	
15–20								Boring terminated at 15 feet below ground surface (bgs). Waterbearing conditions were encountered at 11 feet bgs during drilling. Boring was abandoned using medium bentonite chips on 8/31/06.		

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Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 8/31/2006
Date Finished: 8/31/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
GP02

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard (Upper Yard)

Drilling Co./Driller:	Cascade / E. Floyd
Drilling Method:	Geoprobe
Location:	300' South and 330' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	12
First GW Depth:	5.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							SM	Dry to damp, silty fine to coarse SAND with fine to coarse gravel. Brown to yellow-brown, no petroleum hydrocarbon odor, no discoloration (FILL).		
1										
2			100						Dp	
							OL	Damp, organic SILT. Brown, no petroleum hydrocarbon odor, no discoloration.		
3							ML	Damp, SILT with clay. Gray with iron mottling, no petroleum hydrocarbon odor, no discoloration.		
		0.0			GP03-4'				Mst	
4							SM	Moist, silty fine SAND, micaceous. Gray with iron mottling, no petroleum hydrocarbon odor, no discoloration.		
5								- becomes fine- to coarse-grained, brown, with fine to coarse subangular gravel below 5 feet.	▽	
6		0.0	100		GP03-6'			Wet, fine to medium SAND with silt, micaceous. Olive-brown, no petroleum hydrocarbon odor, no discoloration.	Wet	
7										
8										
9							SP-SM	- no petroleum hydrocarbon odor, no discoloration.		
10			100							
11										
		0.0			GP03-12'				Wet	
12								Boring terminated at 12 feet below ground surface (bgs). Waterbearing conditions were encountered at 5.5 feet bgs during drilling. Water sample GP03 was obtained using a temporary well, screened from 7 to 12 feet bgs. Boring was abandoned using medium bentonite chips on 8/31/06.		
13										
14										
15										
16										
17										
18										
19										
20										

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Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 8/31/2006
Date Finished: 8/31/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
GP03

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard (Upper Yard)

Drilling Co./Driller:	Cascade / E. Floyd
Drilling Method:	Geoprobe
Location:	300' South and 400' East of NW Corner of Headquarters Building
Surface Condition:	Grass, Topsoil
Total Depth:	15
First GW Depth:	10

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0–1							SM	Dry to damp, silty fine to coarse SAND with fine to coarse gravel. Brown to olive brown, no petroleum hydrocarbon odor, no discoloration (FILL).		
2			100				ML	Damp, stiff to very stiff, SILT. Gray, no petroleum hydrocarbon odor, no discoloration.	Dp	
3–4		0.0			GP04-4'		SM	Damp, fine to medium silty SAND with trace clay, micaceous. Olive gray with iron mottling, no petroleum hydrocarbon odor, no discoloration.	Dp	
5–6			100				ML	Moist, stiff to very stiff SILT, grey, mottling, no petroleum hydrocarbon odor, no discoloration.	Mst	
7–8		0.0			GP04-8'		SP-SM	Moist, silty fine to coarse SAND. Orange-brown with iron mottling, no petroleum hydrocarbon odor, no discoloration.	Mst	
9							ML	Moist, very stiff, SILT. Olive-brown, no petroleum hydrocarbon odor, no discoloration.		
10		0.0	80		GP04-10'				▽ Wet	
11							SM	Wet, fine-grained silty SAND, red-brown to olive-brown, occasional fine- to coarse-grained sand, iron staining, no petroleum hydrocarbon odor, no discoloration.		
12–13							SP-SM	Wet, fine to coarse SAND with silt, micaceous. Olive-brown, no petroleum hydrocarbon odor, no discoloration.		
14			100							
15		0.0			GP04-15'			(Driller reports heaving sand conditions)	Wet	
16–20								Boring terminated at 15 feet below ground surface (bgs). Waterbearing conditions were encountered at 10 feet bgs during drilling. Boring was abandoned using medium bentonite chips on 8/31/06.		

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Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 8/31/2006
Date Finished: 8/31/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
GP04

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard (Upper Yard)

Drilling Co./Driller:	Cascade / E. Floyd
Drilling Method:	Geoprobe
Location:	200' South and 400' East of NW Corner of Headquarters Building
Surface Condition:	Grass, Topsoil
Total Depth:	15
First GW Depth:	8

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							SM	Dry, silty fine to coarse SAND with fine to coarse gravel, fine roots. Brown, no petroleum hydrocarbon odor, no discoloration (FILL).		
1										
2			100					Damp, silty fine to coarse SAND. Gray-brown to orange-brown with iron mottling, no petroleum hydrocarbon odor, no discoloration.		
3		0.0			GP05-4'				Dp	
4							SM			
5								- becomes fine-grained sand below 5 feet.		
6			100					- becomes moist, micaceous below 6 feet.		
7										
8		0.0			GP05-8'		ML	Moist SILT with fine sand. Olive-brown to red-brown with iron mottling, no petroleum hydrocarbon odor, no discoloration.	Mst ▽	
9								Moist, silty fine to medium SAND, with trace occasional coarse sand. Gray, no petroleum hydrocarbon odor, no discoloration.		
10			80				SM			
11										
12		0.0			GP05-12'			- becomes wet below 11 feet.	Wet	
13								Moist, fine SAND with silt, trace medium to coarse sand. Gray, no petroleum hydrocarbon odor, no discoloration.		
14			100				SP-SM	- becomes fine to coarse sand below 14 feet .		
15		0.0			GP05-15'				Wet	
16								Boring terminated at 15 feet below ground surface (bgs). Waterbearing conditions were encountered at 8 feet bgs during drilling. Water sample GP05 was obtained using a temporary well, screened from 10 to 15 feet bgs. Boring was abandoned using medium bentonite chips on 8/31/06.		
17										
18										
19										
20										

SOUND ENVIRONMENTAL STRATEGIES
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Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 8/31/2006
Date Finished: 8/31/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
GP05

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard (Upper Yard)

Drilling Co./Driller:	Cascade / E. Floyd
Drilling Method:	Geoprobe
Location:	200' South and 300' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	15
First GW Depth:	9.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0										
1							SM	Dry to damp, silty, fine to coarse SAND with fine to coarse gravel and roots. Organic content increases with depth. Light brown to dark brown, strong petroleum hydrocarbon odor, black discoloration (FILL).		
2		0.0	100		GP06-2'				Dp	
3										
4		0.0			GP06-4'		SP-SM	Moist, fine to medium SAND, interbedded with <1-inch thick lenses of olive-brown SILT. Gray with iron mottling, no petroleum hydrocarbon odor, no discoloration.	Mst	
5										
6			100				SM	Moist, silty fine to coarse SAND, with some fine to coarse gravel. Brown with iron mottling, no petroleum hydrocarbon odor, no discoloration.		
7							ML	Moist, very stiff, SILT with clay and trace fine to coarse sand. Brown with iron mottling, no petroleum hydrocarbon odor, no discoloration.		
8		0.0			GP06-8'		SM	Moist, silty, fine to coarse SAND. Orange brown with iron mottling, no petroleum hydrocarbon odor, no discoloration.	Mst	
9								- grades to wet, silty fine to medium sand with trace clay, olive brown below 8.5 feet.		
10		0.0	100		GP06-9.5'			Wet, fine to medium SAND with silt, micaceous. Olive brown, no petroleum hydrocarbon odor, no discoloration.	▽ Wet	
11										
12							SP-SM	- grades to fine to coarse sand. Gray, no petroleum hydrocarbon odor, no discoloration.		
13										
14			100							
15		0.0			GP06-15'				Wet	
16								Boring terminated at 15 feet below ground surface (bgs). Waterbearing conditions were encountered at 9.5 feet bgs during drilling. Boring was abandoned using medium bentonite chips on 8/31/06.		
17										
18										
19										
20										

SOUND ENVIRONMENTAL STRATEGIES
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Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 8/31/2006
Date Finished: 8/31/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
GP06

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard (Upper Yard)

Drilling Co./Driller:	Cascade / E. Floyd
Drilling Method:	Geoprobe
Location:	200' South and 240' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	12
First GW Depth:	5.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							SM	Dry to damp, silty fine to coarse SAND with fine to coarse gravel. Light gray, no petroleum hydrocarbon odor, no discoloration (FILL).		
2			95						Dp	
3							ML	Damp, SILT with fine sand, micaceous. Gray, no petroleum hydrocarbon odor, no discoloration.		
		0.0			GP07-4'				Mst	
4							SP-SM	Moist, fine SAND with silt, micaceous. Olive gray, no petroleum hydrocarbon odor, no discoloration.		
							ML	Moist, SILT with fine sand, micaceous. Gray with iron motling, no petroleum hydrocarbon odor, no discoloration.		
5									▽	
		0.0			GP07-5.5'		SM	Moist, silty fine to coarse SAND with fine gravel. Brown, no petroleum hydrocarbon odor, no discoloration.	Mst	
6			100						Mst	
7								Wet, fine SAND with silt, micaceous. Olive brown, no petroleum hydrocarbon odor, no discoloration.		
9							SP-SM	- grades to fine to medium sand below 9 feet.		
10			100							
11										
		0.0			GP07-12'			- becomes gray below 11 feet.	Wet	
12								Boring terminated at 12 feet below ground surface (bgs). Waterbearing conditions were encountered at 5.5 feet bgs during drilling. Water sample GP07 was obtained using a temporary well, screened from 7 to 12 feet bgs. Boring was abandoned using medium bentonite chips on 8/31/06.		
13										
14										
15										
16										
17										
18										
19										
20										

SOUND ENVIRONMENTAL STRATEGIES
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Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 8/31/2006
Date Finished: 8/31/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
GP07

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard (Upper Yard)

Drilling Co./Driller:	Cascade / E. Floyd
Drilling Method:	Geoprobe
Location:	200' South and 130' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	15
First GW Depth:	6

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							SM	Dry, silty, fine to coarse SAND. Brown. (FILL)		
1										
2			95				SP	Damp, fine to medium SAND with silt. Gray brown, strong petroleum hydrocarbon odor, dark brown discoloration.		
3		0.0			GP08-2.5'				Dp	
4							SM	Damp, silty fine SAND. Brown, strong petroleum hydrocarbon odor, dark brown discoloration.		
							ML	Moist, SILT with fine sand, trace clay. Olive gray with iron mottling, moderate petroleum hydrocarbon odor, no discoloration.		
5							SM	Moist, silty fine to medium SAND with fine gravel. Brown, no petroleum hydrocarbon odor, no discoloration.		
6		0.0	100		GP08-6'				▽ Wet	
7								Wet, fine SAND with silt, micaceous. Gray, no petroleum hydrocarbon odor, no discoloration.		
8								- grades to fine to medium sand, with trace coarse sand.		
9										
10			100				SP-SM			
11										
12		0.0			GP08-12'			- no petroleum hydrocarbon odor, no discoloration.	Wet	
13										
14			100							
15		0.0			GP08-15'			- no petroleum hydrocarbon odor, no discoloration.	Wet	
16								Boring terminated at 15 feet below ground surface (bgs). Waterbearing conditions were encountered at 6 feet bgs during drilling. Boring was abandoned using medium bentonite chips on 8/31/06.		
17										
18										
19										
20										

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Seattle Terminal Properties
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Seattle, Washington

Date Started: 8/31/2006
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Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
GP08

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard (Upper Yard)

Drilling Co./Driller:	Cascade / E. Floyd
Drilling Method:	Geoprobe
Location:	220' South and 55' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	15
First GW Depth:	12

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0–4		0.0	100		GP09-4'		ML	Moist, very stiff, SILT with clay, interbedded with <1-inch thick lenses of fine to coarse sand. Gray with iron mottling, no petroleum hydrocarbon odor, no discoloration. - becomes olive-brown, with red-brown iron staining below 4 feet.	Mst	
4–8		0.0	100		GP09-8'		ML	- becomes stiff, clayey SILT, low plasticity, interbedded with 1-inch lenses of fine sand below 6 feet.	Mst	
8–10			80				SM	Moist, silty fine SAND. Olive-brown with iron staining, no petroleum hydrocarbon odor, no discoloration.		
10–13		0.0	100		GP09-12'		SP-SM	Wet, fine to medium SAND with silt, micaceous; olive-brown, iron staining, no petroleum hydrocarbon odor, no discoloration. - becomes wet below 12 feet. - with trace coarse sand below 13 feet.	Wet ▽	
13–15		0.0			GP09-15'				Wet	
15–20								Boring terminated at 15 feet below ground surface (bgs). Waterbearing conditions were encountered at 12 feet bgs during drilling. Water sample GP09 was obtained using a temporary well, screened from 10 to 15 feet bgs. Boring was abandoned using medium bentonite chips on 9/1/06.		

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard (Lower Yard)

Drilling Co./Driller:	Cascade / E. Floyd
Drilling Method:	Geoprobe
Location:	150' South and 240' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	15
First GW Depth:	7

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0										
1							SM	Dry to damp, fine to medium SAND with fine to coarse gravel. Brown to olive gray, no petroleum hydrocarbon odor, no discoloration. (FILL)		
2			100						Dp	
3							ML	Damp, stiff, SILT with fine to medium sand. Gray, no petroleum hydrocarbon odor, no discoloration.		
4		0.0			GP010-4'			- becomes olive-brown to red-brown below 3.5 feet.	Dp	
5							SM	- grades to SILT with clay and trace sand, low plasticity below 4 feet. Moderate petroleum hydrocarbon odor, no discoloration.		
6			100				ML	Moist, silty fine SAND. Gray, strong petroleum hydrocarbon odor, no discoloration. Moist, very stiff, SILT interbedded with 1-inch lenses of fine sand. Gray, moderate petroleum hydrocarbon odor, no discoloration.	Mst	
7		11.2			GP10-7'			- Iron mottling below 6 feet.	▽ Wet	
8								Wet, fine to medium SAND with silt, micaceous. Olive-brown to gray, strong petroleum hydrocarbon odor, with brown petroleum hydrocarbon discoloration.		
9								- grades to fine to coarse sand below 8.5 feet; olive-brown, with iron mottling, strong petroleum hydrocarbon odor, no discoloration.		
10			100							
11							SP-SM			
12		0.0			GP010-12'				Wet	
13								- becomes olive-gray, strong petroleum hydrocarbon odor, no discoloration below 12 feet.		
14			100					- becomes fine to medium sand below 13 feet; gray, no petroleum hydrocarbon odor, no discoloration.		
15		0.0			GP10-15'				Wet	
16								Boring terminated at 15 feet below ground surface (bgs). Waterbearing conditions were encountered at 12 feet bgs during drilling. Boring was abandoned using medium bentonite chips on 9/1/06.		
17										
18										
19										
20										

SOUND ENVIRONMENTAL STRATEGIES
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Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 9/1/2006
Date Finished: 9/1/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
GP10

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard (Lower Yard)

Drilling Co./Driller:	Cascade / E. Floyd
Drilling Method:	Geoprobe
Location:	150' South and 320' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	15
First GW Depth:	10

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							SM	Dry to damp, silty, fine to coarse SAND with fine to coarse gravel. Brown to gray brown, no petroleum hydrocarbon odor, no discoloration. (FILL)		
1										
2			100							
3		0.0			GP11-4'		ML	Damp, very stiff, SILT with clay, interbedded with <1-inch thick lenses of fine sand. Gray with iron motling, no petroleum hydrocarbon odor, no discoloration.	Dp	
4								Moist to wet, fine SAND with silt, trace medium and coarse sand, micaceous. Olive-brown to gray-brown with iron mottling, no petroleum hydrocarbon odor, no discoloration.		
5										
6			80							
7		0.0			GP11-8'				Mst	
8										
9							SP-SM			
10		0.0	100		GP11-10'			- becomes wet, gray below 10 feet.	▽ Wet	
11										
12								- grades to fine to medium sand below 12 feet; no petroleum hydrocarbon odor, no discoloration.		
13			100					- becomes olive-gray, strong petroleum hydrocarbon odor, no discoloration.		
14										
15		0.0			GP11-15'				Wet	
16								Boring terminated at 15 feet below ground surface (bgs). Waterbearing conditions were encountered at 12 feet bgs during drilling. Water sample GP11 was obtained using a temporary well, screened from 10 to 15 feet bgs. Boring was abandoned using medium bentonite chips on 9/1/06.		
17										
18										
19										
20										

SOUND ENVIRONMENTAL STRATEGIES
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Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 9/1/2006
Date Finished: 9/1/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
GP11

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard (Lower Yard)

Drilling Co./Driller:	Cascade / E. Floyd
Drilling Method:	Geoprobe
Location:	130' South and 400' East of NW Corner of Headquarters Building
Surface Condition:	Grass, Topsoil
Total Depth:	15
First GW Depth:	Not encountered

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							PT	Topsoil, brown, damp, grass, fine roots.		
1										
2			100				SM	Damp, silty fine to coarse SAND with gravel. Light brown with iron mottling, no petroleum hydrocarbon odor, no discoloration. (FILL)		
3		0.0			GP12-4'				Dp	
4							SP-SM	Damp, fine SAND with silt, interbedded with 2-inch thick lenses of silt. Olive-brown with iron mottling, no petroleum hydrocarbon odor, no discoloration.		
5										
6			100							
7										
8		0.0			GP12-8'			Damp, stiff, SILT with fine sand, micaceous. Olive-brown, no petroleum hydrocarbon odor, no discoloration.	Dp	
9							ML	- becomes very stiff with trace coarse sand; gray.		
10			100							
11										
12		0.0			GP12-12'				Mst	
13							SP-SM	Moist, fine to medium SAND with silt and trace coarse sand, micaceous. Olive-brown with iron mottling, no petroleum hydrocarbon odor, no discoloration.		
14			100							
15		0.0			GP12-15'				Mst	
16								Boring terminated at 15 feet below ground surface (bgs) due to refusal. Waterbearing conditions were not encountered during drilling. Boring was abandoned using medium bentonite chips on 9/1/06.		
17										
18										
19										
20										

SOUND ENVIRONMENTAL STRATEGIES
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Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 9/1/2006
Date Finished: 9/1/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
GP12

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard (Lower Yard)

Drilling Co./Driller:	Cascade / E. Floyd
Drilling Method:	Geoprobe
Location:	70' South and 320' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	15
First GW Depth:	14

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0–2		0.0	100				SM	Dry, silty fine to coarse SAND with fine to coarse gravel. Light brown, no petroleum hydrocarbon odor, no discoloration. (FILL) - grades to silty fine SAND.	Dry-Dp	
2–4					GP13-4'		ML	Damp, stiff, SILT with fine sand, micaceous. Olive brown with iron mottling, no petroleum hydrocarbon odor, no discoloration.		
4–6		0.0	100				SM	Moist, silty fine SAND, interbedded with <1-inch thick lenses of SILT, micaceous. Olive brown with iron mottling, no petroleum hydrocarbon odor, no discoloration.	Dp	
6–8					GP13-8'			Moist to wet, fine SAND with silt, micaceous. Olive gray, no petroleum hydrocarbon odor, no discoloration.		
8–10		0.0	80				SP-SM	- grades to fine- to medium-grained, with trace coarse sand below 9 feet; with iron mottling.	Mst	
10–12					GP13-12'					
12–14		0.0	100						Mst-Wet ▽	
14–15					GP13-15'			- becomes wet, no petroleum hydrocarbon odor, no discoloration.		
15–20								Boring terminated at 15 feet below ground surface (bgs). Waterbearing conditions wereencountered at 14 feet bgs during drilling. Boring was abandoned using medium bentonite chips on 9/1/06.		

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Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 9/1/2006
Date Finished: 9/1/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
GP13

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former Tank Yard (Lower Yard)

Drilling Co./Driller:	Cascade / E. Floyd
Drilling Method:	Geoprobe
Location:	70' South and 240' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	15
First GW Depth:	8.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							SM	Damp, silty fine to coarse SAND with fine to coarse gravel. Dark brown, strong petroleum hydrocarbon odor.		
1										
2			100							
3							ML	Damp, soft, SILT with fine sand. Gray to red brown.		
		0.0			GP14-4'				Dp	
4							SM	Damp to moist, silty fine to medium SAND, with trace coarse sand. Olive-brown with iron mottling, strong petroleum hydrocarbon odor, some discoloration.		
5								Moist, fine to medium SAND with silt, with trace coarse sand, micaceous. Olive brown, strong petroleum hydrocarbon odor, no discoloration.		
6			100							
7								- becomes olive-gray below 6.5 feet.		
		58.6			GP14-8'				Mst	
8								- becomes olive-brown below 7.5 feet.	▽	
9								- becomes wet below 8.5 feet; no petroleum hydrocarbon odor, no discoloration.		
10		0.0	100		GP14-10'		SP-SM		Wet	
11										
12										
13										
14			100							
		0.0			GP14-15'			- grades to fine to coarse SAND with silt below 14 feet; no petroleum hydrocarbon odor, no discoloration.	Wet	
15								Boring terminated at 15 feet below ground surface (bgs). Waterbearing conditions were encountered at 8.5 feet bgs during drilling. Boring was abandoned using medium bentonite chips on 9/1/06.		
16										
17										
18										
19										
20										

SOUND ENVIRONMENTAL STRATEGIES
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Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 9/1/2006
Date Finished: 9/1/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
GP14

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former PCP Mixing Area

Drilling Co./Driller:	Cascade / J. Caver
Drilling Method:	Geoprobe
Location:	155' South and 160' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	15
First GW Depth:	10

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0										
1							SM	Dry, silty fine to coarse SAND with fine to coarse gravel. Brown. (FILL)		
2			100							
3								Moist, very stiff, SILT with fine sand and clay, low plasticity. Olive-brown with iron mottling, weak petroleum hydrocarbon odor, no discoloration.		
4		0.0			GP15-4'			- becomes olive-gray below 3.5 feet.	Mst	
5							ML	- interbedded with <1-inch thick lenses of fine sand below 5 feet, no petroleum hydrocarbon odor, no discoloration.		
6		0.0	100		GP15-6'			- micaceous below 6 feet.	Mst	
7										
8										
9							SM	Moist, silty fine SAND. Gray, no petroleum hydrocarbon odor, no discoloration.		
10		0.0	100		GP15-10'		ML	Moist, SILT with fine sand and subrounded gravel. Gray with iron mottling, no petroleum hydrocarbon odor, no discoloration.	▽ Wet	
11								Wet, fine SAND with silt, micaceous. Gray, no petroleum hydrocarbon odor, no discoloration.		
12										
13							SP-SM	- grades to fine to medium SAND with silt, with trace coarse sand.		
14			100							
15		0.0			GP15-15'				Wet	
16								Boring terminated at 15 feet below ground surface (bgs). Waterbearing conditions were encountered at 10 feet bgs during drilling. Water sample GP15 was obtained using a temporary well, screened from 10 to 15 feet bgs. Boring was abandoned using medium bentonite chips on 9/5/06.		
17										
18										
19										
20										

SOUND ENVIRONMENTAL STRATEGIES
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Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 9/5/2006
Date Finished: 9/5/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
GP15

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former PCP Mixing Area

Drilling Co./Driller:	Cascade / J. Caver
Drilling Method:	Geoprobe
Location:	110' South and 160' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	15
First GW Depth:	9.5

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0										
1							SM	Dry, silty fine to coarse SAND with coarse gravel, bricks. Brown, no petroleum hydrocarbon odor, no discoloration. (FILL)		
2			100						Dp	
3								- with fine to coarse gravel below 2 feet.		
4		0.0			GP16-4'		SP-SM	Moist to wet, fine SAND with silt, micaceous. Gray, very strong petroleum hydrocarbon odor, brown discoloration from 3.5 to 6'.	Mst	
5								- becomes brown with iron mottling below 5 feet.		
6		0.0	100		GP16-5.5'			- wet from 5.5 to 6 feet, no petroleum hydrocarbon odor, no discoloration.	Wet	
7								Moist, stiff, SILT, interbedded with <0.5-inch thick lenses of fine sand. Brown to yellow-brown, no petroleum hydrocarbon odor, no discoloration.	Mst	
8							ML	- becomes olive-brown below 7.5 feet.		
9									▽	
10		0.0	100		GP16-9.5'				Wet	
11							SM	Wet, silty fine SAND, with trace medium sand, interbedded with thin lenses of SILT. Olive-brown with iron mottling, no petroleum hydrocarbon odor, some discoloration.		
12								Wet, fine to medium SAND with silt, trace coarse sand, micaceous. Gray, no petroleum hydrocarbon odor, no discoloration.		
13							SP-SM			
14			100					- becomes fine- to coarse-grained below 13 feet.		
15		0.0			GP16-15'				Wet	
16								Boring terminated at 15 feet below ground surface (bgs). Waterbearing conditions were encountered at 9.5 feet bgs during drilling. Water sample GP16 was obtained using a temporary well, screened from 10 to 15 feet bgs. Boring was abandoned using medium bentonite chips on 9/5/06.		
17										
18										
19										
20										

SOUND ENVIRONMENTAL STRATEGIES
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Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 9/5/2006
Date Finished: 9/5/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
GP16

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former PCP Mixing Area

Drilling Co./Driller:	Cascade / J. Caver
Drilling Method:	Geoprobe
Location:	65' South and 160' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	15
First GW Depth:	8

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							SM	Moist, silty fine to coarse SAND with fine to coarse gravel. Brown. (FILL)		
1										
2			100				ML	Moist, stiff, SILT with fine to coarse sand. Gray-brown, weak petroleum hydrocarbon odor, brown discoloration.		
3		0.0			GP17-4'			- strong petroleum hydrocarbon odor below 3 feet.	Mst	
4							SM	Moist, silty fine to medium SAND. Olive-brown.		
5										
6			100				SP-SM	Moist, fine SAND with silt, micaceous. Gray, strong petroleum hydrocarbon odor, brown discoloration.		
7										
8		0.0			GP17-8'		SM	Moist, silty fine SAND. Brown, strong petroleum hydrocarbon odor, brown discoloration.	Mst ▽	
9								Wet, fine to medium SAND with silt, with trace coarse sand, micaceous. Olive-gray with iron mottling, strong petroleum hydrocarbon odor, brown discoloration.		
10			100							
11										
12		0.0			GP17-12'		SP-SM	- grades to fine- to coarse-grained sand; gray, no petroleum hydrocarbon odor, no discoloration.	Wet	
13										
14			100							
15		0.0			GP17-15'				Wet	
16								Boring terminated at 15 feet below ground surface (bgs). Waterbearing conditions were encountered at 8 feet bgs during drilling. Water sample GP17 was obtained using a temporary well, screened from 10 to 15 feet bgs. Boring was abandoned using medium bentonite chips on 9/5/06.		
17										
18										
19										
20										

SOUND ENVIRONMENTAL STRATEGIES
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Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 9/5/2006
Date Finished: 9/5/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
GP17

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former PCP Mixing Area

Drilling Co./Driller:	Cascade / J. Caver
Drilling Method:	Geoprobe
Location:	155' South and 140' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	15
First GW Depth:	9

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							SM	Moist, silty fine to coarse SAND with fine to coarse gravel. Brown. (FILL)		
1								- grades to damp, fine to medium SAND with silt; olive-brown.		
2			100				ML	Damp, stiff SILT with fine sand. Olive-brown, strong petroleum hydrocarbon odor, brown discoloration.	Dp	
3		0.0			GP18-4'		SP-SM	Moist, fine to medium SAND with silt. Gray-brown.	Mst	
4							ML	Moist, stiff, SILT with clay. Orange-brown to olive-brown with iron mottling, strong petroleum hydrocarbon odor, no discoloration.		
5							SP-SM	Moist, fine to medium SAND with silt, trace coarse sand, micaceuous. Gray, weak petroleum hydrocarbon odor, no discoloration.		
6			100							
7		0.0			GP18-8'		ML	Moist, stiff, SILT with clay and fine sand, low plasticity. Olive-brown, moderate petroleum hydrocarbon odor, no discoloration.	Mst	
8										
9								Wet, fine to medium SAND with silt, micaceous. Gray, weak petroleum hydrocarbon odor, no discoloration.	▽	
10			80							
11		0.0			GP18-12'		SP-SM		Wet	
12								- no petroleum hydrocarbon odor, no discoloration.		
13										
14			100							
15		0.0			GP18-15'			- grades to fine- to coarse-grained sand.	Wet	
16								Boring terminated at 15 feet below ground surface (bgs). Waterbearing conditions were encountered at 9 feet bgs during drilling. Water sample GP18 was obtained using a temporary well, screened from 10 to 15 feet bgs. Boring was abandoned using medium bentonite chips on 9/5/06.		
17										
18										
19										
20										

SOUND ENVIRONMENTAL STRATEGIES
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Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 9/5/2006
Date Finished: 9/5/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
GP18

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former PCP Mixing Area

Drilling Co./Driller:	Cascade / J. Caver
Drilling Method:	Geoprobe
Location:	110' South and 140' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	15
First GW Depth:	7

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							SM	Dry to damp, silty fine to coarse SAND with fine to coarse gravel, bricks. Brown. (FILL)		
1										
2			100						Dp	
3		0.0			GP19-4'				Mst	
4							SM	Moist, silty fine to medium SAND. Gray to gray-brown, no petroleum hydrocarbon odor, no discoloration.		
5							ML	Moist, stiff, SILT with fine sand, low plasticity. Olive-brown to red-brown with iron mottling, no petroleum hydrocarbon odor, no discoloration.		
6			100						Mst	
7									▽	
8		0.0			GP19-8'		SM	Wet, silty fine SAND, gray, micaceous. Gray, no petroleum hydrocarbon odor, no discoloration.	Wet	
9								Wet, fine to medium SAND with silt, trace coarse sand, micaceous. Gray, no petroleum hydrocarbon odor, no discoloration.		
10			100							
11		0.0			GP19-12'		SP-SM		Wet	
12								- no petroleum hydrocarbon odor, no discoloration.		
13										
14			100							
15		0.0			GP19-15'			- no petroleum hydrocarbon odor, no discoloration.	Wet	
16								Boring terminated at 15 feet below ground surface (bgs). Waterbearing conditions were encountered at 7 feet bgs during drilling. Water sample GP19 was obtained using a temporary well, screened from 10 to 15 feet bgs. Boring was abandoned using medium bentonite chips on 9/5/06.		
17										
18										
19										
20										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 9/5/2006
Date Finished: 9/5/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
GP19

Log of Exploratory Boring:

Notes
2737 West Commodore Way
Former PCP Mixing Area

Drilling Co./Driller:	Cascade / J. Caver
Drilling Method:	Geoprobe
Location:	65' South and 140' East of NW Corner of Headquarters Building
Surface Condition:	Soil
Total Depth:	15
First GW Depth:	8

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0							SM	Dry to damp, silty fine to coarse SAND with fine to coarse gravel. Brown. (FILL)		
2			100				SM	Moist, silty fine to medium SAND. Gray, strong petroleum hydrocarbon odor, no discoloration.	Mst	
3							ML	Moist, stiff, SILT with fine sand, low plasticty. Olive-brown with iron mottling, no petroleum hydrocarbon odor, no discoloration.		
3		0.0			GP20-4'				Mst	
4							SM	Moist, silty, fine to coarse SAND. Olive-brown with iron mottling, strong petroleum hydrocarbon odor, no discoloration.		
6			100					Moist, fine to medium SAND with silt. Gray, strong petroleum hydrocarbon odor.		
7		0.0			GP20-8'				Mst ▽	
8								- brown discoloration from 7.5 to 8 feet.		
8								- becomes wet; olive-brown, moderate petroleum hydrocarbon odor, no discoloration.		
10			100				SP-SM			
11		0.0			GP20-12'				Wet	
12								- grades to fine- to coarse-grained sand; gray, with coarse-grained sand, moderate petroleum hydrocarbon odor, no discoloration.		
13			100							
14		0.0			GP20-15'				Wet	
15								Boring terminated at 15 feet below ground surface (bgs). Waterbearing conditions were encountered at 8 feet bgs during drilling. Water sample GP20 was obtained using a temporary well, screened from 10 to 15 feet bgs. Boring was abandoned using medium bentonite chips on 9/5/06.		
20										

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

Seattle Terminal Properties
2737-2805 West Commodore Way
Seattle, Washington

Date Started: 9/5/2006
Date Finished: 9/5/2006
Logged By: AIS
Chk By: DHG
SES Project No.: 0440-004

BORING LOG
GP20

SoundEarth Strategies

Project:	Seattle Terminal Properties 01-600
Project Number:	0440-004
Logged by:	JAB
Date Started:	06/22/10
Surface Conditions:	Concrete
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	JAC
Date Completed:	06/22/10

BORING LOG | J3IW01

J3IW01

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete.**	
					J3W01-01	ML		**Moist, SILT with fine to coarse sand and gravel, gray, strong hydrocarbon odor (FILL) (60-20-20).**	
5		6/12/16	90	0.0	J3IW01-05	ML		**Wet, very stiff, fine to medium sandy SILT, gray with orange mottling, no hydrocarbon odor (70-30-0).**	
		7/15/18	90	0.0	J3IW01-06.5			**Wet, hard, SILT with fine sand, gray with light brown mottling, no hydrocarbon odor (85-15-0).**	
10								**Drill straight to 22.5 feet below ground surface (bgs) to set well.**	
15									
20									
								Boring terminated at 22.5 feet bgs.	
25									

Drilling Co./Driller:	Cascade/Scott		**Well/Auger Diamter:**	2"	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	12 to 22	feet bgs	Notes
Sampler Type:	CA-SS		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	22.5	feet bgs	**Surface Seal:**	Concrete		
Total Well Depth:	22	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	Stickup		

SoundEarth Strategies

Project: Seattle Terminal Properties 01-600
Project Number: 0440-004-22
Logged by: JAB
Date Started: 05/20/10
Surface Conditions: Concrete
Well Location N/S: --
Well Location E/W: --
Reviewed by: Draft
Date Completed: 05/20/10

BORING LOG | J5IW01

J5IW01

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: 132.5 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete 0.5' thick**	
		2 4 8	50	503	J5IW01-0.5	ML		**Moist, SILT with fine to medium sand (75-25-0). Gray with orange mottling.**	
		2 4 4	50	1.8	J5IW01-02	ML		**Moist, SILT with fine sand (85-15-0). Gray with orange mottling.**	
		2 4 4	50	8.65	J5IW01-03.5	ML		**Moist SILT with fine sand (70-30-0). Gray with orange mottling.**	
5		5 8 12	100	1.8	J5IW01-05	ML		**Wet, SILT with fine sand and trace coarse gravel (80-15-5). Gray to light brown. NAPL on sample.**	
		10 11 15	100	42.8	J5IW01-06.5	SM		**Moist, silty fine SAND (40-60-0). Gray to light brown.**	
		18 20 21	100	15.5	J5IW01-08.5	SM		**Moist, silty fine SAND (30-70-0). Gray with orange mottling.**	
10					J5IW01-10				
		15 17 20	100	1.4		SM		**Wet, silty fine to medium SAND (20-80-0). Gray with brown staining.**	
15									

						Notes/Comments:
Drilling Co./Driller:	Cascade/David		**Well/Auger Diameter:**	2'	inches	
Drilling Equipment:	HSA		**Well Screened Interval:**	5 to 20	feet bgs	
Sampler Type:	--		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	20	feet bgs	**Surface Seal:**	Portland Cement		
Total Well Depth:	20	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	Stickup		

SoundEarth Strategies

Project: Seattle Terminal Properties 01-600
Project Number: 0440-004-22
Logged by: JAB
Date Started: 05/20/10
Surface Conditions: Concrete
Well Location N/S: --
Well Location E/W: --
Reviewed by: Draft
Date Completed: 05/20/10

BORING LOG | J5IW01

J5IW01

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: 132.5 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15					J5IW01-15				
		19 22 26	100			SP		**Wet, fine to coase SAND with trace silt (5-95-0). Gray.**	
20								**Boring terminated at 21' bgs.**	
25									
30									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: --
Hammer Type/Weight: 300 lbs
Total Boring Depth: 20 feet bgs
Total Well Depth: 20 feet bgs
State Well ID No.: --

Well/Auger Diameter: 2' inches
Well Screened Interval: 5 to 20 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Sand
Surface Seal: Portland Cement
Annular Seal: Bentonite
Monument Type: Stickup

Notes/Comments:

SoundEarth Strategies

Project: Seattle Terminal Properties 01-600
Project Number: 0440-004-22
Logged by: JAB
Date Started: 05/24/10
Surface Conditions: Gravel
Well Location N/S: --
Well Location E/W: --
Reviewed by: Draft
Date Completed: 05/24/10

BORING LOG | J6IW01

J6IW01

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: 4.5 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0									
		2 3 4	10	0.38	J6IW01-01	SM		**Poor recovery. Moist silty fine to coarse SAND with fine to coarse gravel, trace rootlets (30-50-20). Light brown**	
		1 2 3	0					**No recovery.**	
		2 2 2	10	152	J6IW01-04.5	ML		**Wet, SILT with fine to medium sand (65-35-0). LNAPL on sample. Gray.**	
5		6 8 9	100		J6IW01-06	ML		**Wet, fine sandy SILT (70-30-0). Gray with orange mottling.**	
		7 9 12	100	0.91	J6IW01-07.5	SM		**Wet, silty fine SAND (40-60-0). Gray with orange mottling.**	
		15 19 29	100	1.83	J6IW01-10	SM		**Wet, silty fine to medium SAND (30-70-0). Gray.**	
10									
		15 19 27	100			SM		**Wet, fine to coarse SAND with silt (15-85-0). Gray.**	
15									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: SPT/CA-SS
Hammer Type/Weight: 300 lbs
Total Boring Depth: 22 feet bgs
Total Well Depth: 21 feet bgs
State Well ID No.: --

Well/Auger Diameter: 2" inches
Well Screened Interval: 6 to 21 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Sand
Surface Seal: Portland Cement
Annular Seal: Bentonite
Monument Type: Stickup

Notes/Comments:

SoundEarth Strategies

Project: Seattle Terminal Properties 01-600
Project Number: 0440-004-22
Logged by: JAB
Date Started: 05/24/10
Surface Conditions: Gravel
Well Location N/S: --
Well Location E/W: --
Reviewed by: Draft
Date Completed: 05/24/10

BORING LOG | J6IW01

J6IW01

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: 4.5 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15					J6IW01-15				
20		15 16 26	100	0.32		SP		**Wet, fine to coarse SAND with trace silt (5-95-0). Gray.**	
								Boring terminated at 22' bgs.	
25									
30									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: SPT/CA-SS
Hammer Type/Weight: 300 lbs
Total Boring Depth: 22 feet bgs
Total Well Depth: 21 feet bgs
State Well ID No.: --

Well/Auger Diameter: 2" inches
Well Screened Interval: 6 to 21 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Sand
Surface Seal: Portland Cement
Annular Seal: Bentonite
Monument Type: Stickup

Notes/Comments:

SoundEarth Strategies

Project:	Seattle Terminal Properties 01-600
Project Number:	0440-004
Logged by:	PJK
Date Started:	06/09/10
Surface Conditions:	Gravel
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	JAC
Date Completed:	06/09/10

BORING LOG | J12B01 --

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Gravel.**	
		1 2 3	75	0.5	J12B01-0.5	ML		**Moist, gravelly SILT, some sand, dark brown, faint hydrocarbon odor.**	
		2 2 5	50	1.9	J12B01-02.5			**Damp, SILT with fine sand, gray with some orange oxidation, moderate hydrocarbon odor, no sheen (80-20-0).**	
		3 5 10	100	1.9	J12B01-04.5	ML		**Damp, SILT with fine sand, trace fine gravel, gray, moderate hydrocarbon odor, no sheen (80-15-5).**	
5		5 5 5	100	0.8	J12B01-06				
						SM		**Moist, silty fine SAND, gray, faint hydrocarbon odor (40-60-0).**	
								Boring terminated at 7 feet bgs and backfilled with bentonite.	
10									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	--	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	--	feet bgs	PID readings collected directly from sampler.
Sampler Type:	--		**Screen Slot Size:**	--	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	--		
Total Boring Depth:	7	feet bgs	**Surface Seal:**	--		
Total Well Depth:	--	feet bgs	**Annular Seal:**	--		
State Well ID No.:	--		**Monument Type:**	--		

SoundEarth Strategies

Project: Seattle Terminal Properties 01-600
Project Number: 0440-004-22
Logged by: PJK
Date Started: 06/21/10
Surface Conditions: Concrete
Well Location N/S: --
Well Location E/W: --
Reviewed by: Draft
Date Completed: 06/21/10

BORING LOG | K3IW01

K3IW01

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: 17.5 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete slab 1' thick**	
								Hand cleared to 4' bgs.	
5		4 6 8	100		K3IW01-05	SM		**Damp to moist, silty fine SAND (30-70-0). Gray-brown with some orange oxidation. No odor or sheen.**	
		8 20 20	100		K3IW01-07	ML		**Damp, SILT with fine sand (90-10-0). Gray-brown with some orange-red oxidation. No odor or sheen.**	
		16 20 22	90			ML		**Same as above.**	
					K3IW01-09	SM		**Moist, silty fine SAND, some medium sand (40-60-0). Gray-brown. No odor or sheen.**	
10		20 23 25	100		K3IW01-10.5	ML		**Damp, SILT with trace fine sand (95-5-0). Gray with some orange-red oxidation. No hydrocarbon odor or sheen.**	
15		20 23 32	50			SM		**Damp to moist, silty fine SAND (40-60-0). Dark gray, no odor or sheen.**	

Drilling Co./Driller: Cascade/Dave
Drilling Equipment: LA-HSA
Sampler Type: --
Hammer Type/Weight: 140 lbs
Total Boring Depth: 26 feet bgs
Total Well Depth: 25 feet bgs
State Well ID No.: --

Well/Auger Diameter: 2" inches
Well Screened Interval: 15 to 25 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Sand
Surface Seal: Cement
Annular Seal: Bentonite
Monument Type: Stickup

Notes/Comments:
Notes

SoundEarth Strategies

Project: Seattle Terminal Properties 01-600
Project Number: 0440-004-22
Logged by: PJK
Date Started: 06/21/10
Surface Conditions: Concrete
Well Location N/S: --
Well Location E/W: --
Reviewed by: Draft
Date Completed: 06/21/10

BORING LOG | K3IW01

K3IW01

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: 17.5 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15		22 31 37	80			SM		**Moist, silty fine SAND, with decreasing silt content (30-70-0). Dark gray, no odor or sheen.**	
		50/6	75			SM		**Same as above. Wet at 17.5' bgs.**	
20									
25								**Boring terminated at 26' bgs.**	
30									

Drilling Co./Driller: Cascade/Dave
Drilling Equipment: LA-HSA
Sampler Type: --
Hammer Type/Weight: 140 lbs
Total Boring Depth: 26 feet bgs
Total Well Depth: 25 feet bgs
State Well ID No.: --

Well/Auger Diameter: 2" inches
Well Screened Interval: 15 to 25 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Sand
Surface Seal: Cement
Annular Seal: Bentonite
Monument Type: Stickup

Notes/Comments:
Notes

SoundEarth Strategies

Project:	Seattle Terminal Properties 01-600
Project Number:	0440-004
Logged by:	PJK
Date Started:	06/21/10
Surface Conditions:	Concrete
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	JAC
Date Completed:	06/22/10

BORING LOG | K4IW01

K4IW01

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: -- feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete (1 foot thick).**	
					K4IW01-02			**Hand cleared to 4 feet below ground surface (bgs).**	
		8 12	100			ML		**Moist, SILT with sand, gray with some orange mottling, moderate hydrocarbon odor, no sheen (80-20-0).**	
5		18			K4IW01-05	SM		**Moist, silty SAND, gray, no odor or sheen (40-60-0).**	
		9 15 20	100		K4IW01-07	SM		**Same as above.**	
		22 23 30	100		K4IW01-09	ML		**Damp, SILT, few fine sand, brown-gray, no odor or sheen (90-10-0).**	
10		50/6	80		K4IW01-10.5			**Damp, SILT with fine sand, increasing sand content, gray-brown, no odor or sheen.**	
								Drilled to 26 feet bgs.	
15									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	2"	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	14 to 25	feet bgs	
Sampler Type:	--		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	26	feet bgs	**Surface Seal:**	Cement		
Total Well Depth:	25	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	Stickup		

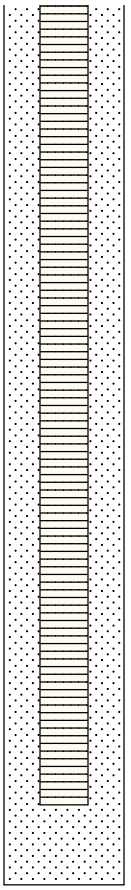
SoundEarth Strategies

Project:	Seattle Terminal Properties 01-600
Project Number:	0440-004
Logged by:	PJK
Date Started:	06/21/10
Surface Conditions:	Concrete
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	JAC
Date Completed:	06/22/10

BORING LOG **K4IW01**
K4IW01

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: -- feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15								**Drilled to 26 feet bgs.**	
20									
25								**Boring terminated at 26 feet bgs.**	
30									

Drilling Co./Driller:	Cascade/Dave		**Well/Auger Diamter:**	2"	inches	**Notes/Comments:**
Drilling Equipment:	LA-HSA		**Well Screened Interval:**	14 to 25	feet bgs	
Sampler Type:	--		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	140	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	26	feet bgs	**Surface Seal:**	Cement		
Total Well Depth:	25	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	Stickup		

SoundEarth Strategies

Project:	Seattle Terminal Properties 01-600
Project Number:	0440-004
Logged by:	JAB
Date Started:	05/20/10
Surface Conditions:	Concrete
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	JAC
Date Completed:	05/20/10

BORING LOG K5IW01

K5IW01

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: 4.5 feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete.**	
		2 3 4	20	5.2	K5IW01-01	ML		**Moist, SILT with fine to coarse sand, trace fine gravel, gray with orange mottling (80-15-5).**	
		2 5 6	50		K5IW01-02.5			**Moist, SILT with fine sand, light brown with orange mottling (80-20-0).**	
5		3 6 7	100	0.65	K5IW01-04.5	SM		**Wet, silty fine SAND, gray with orange mottling (30-70-0).**	
		3 7 9	100		K5IW01-06				
		9 17 24	100	0.80	K5IW01-07.5				
10		17 19 26	100	0.60	K5IW01-10	SM		**Moist, silty fine SAND, gray with orange mottling (15-85-0).**	
15		18 21 21	100	0.56	K5IW01-15	SM		**Wet, silty fine to medium SAND, gray with orange mottling (30-70-0).**	
20		21 22 23	100	0.57		SW		**Wet, fine to coarse SAND with trace silt, gray (5-95-0).**	
								Boring terminated at 22 feet below ground surface.	
25									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diamter:**	2"	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	6 to 21	feet bgs	
Sampler Type:	SPT/CA-S		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	22	feet bgs	**Surface Seal:**	Portland Cement		
Total Well Depth:	21	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	Stickup		

SoundEarth Strategies

Project: Seattle Terminal Properties 01-600
Project Number: 0440-004-22
Logged by: JAB
Date Started: 05/20/10
Surface Conditions: Gravel
Well Location N/S: --
Well Location E/W: --
Reviewed by: Draft
Date Completed: 05/20/10

BORING LOG | K6IW01

K6IW01

Site Address: 2737 West Commodore Way Seattle, WA

Water Depth At Time of Drilling: 14 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0									
		9 10 15	10	0.40		SM		**Appears to be slough. Silty, fine to coarse SAND with fine gravel (30-45-25). Trace rootlets.**	
		2 2 3	50	0.47		SM		**Moist, silty fine SAND with trace fine gravel (40-55-5). Gray.**	
		6 9 10	20	0.50		ML SM		**Moist SILT with trace fine sand (95-5-0). Gray with orange mottling.** **Moist, silty fine SAND (40-60-0). Gray with orange mottling.**	
5		5 7 9	100	0.44		ML		**Moist, SILT with fine sand (85-15-0). Gray with orange mottling.**	
		6 8 10	100	0.44		SM		**Wet, silty fine SAND (40-60-0). Gray.**	
		6 12 24	100			SM		**Wet, silty fine SAND (30-70-0). Gray.**	
10									
		16 50/6	100	0.54		SM		**Wet, fine to coarse SAND with silt (20-80-0). Gray.**	
15									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: --
Hammer Type/Weight: 300 lbs
Total Boring Depth: 22 feet bgs
Total Well Depth: 21 feet bgs
State Well ID No.: --

Well/Auger Diameter: 2" inches
Well Screened Interval: 6 to 21 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Sand
Surface Seal: Portland Cement
Annular Seal: Bentonite
Monument Type: Stickup

Notes/Comments:

SoundEarth Strategies

Project: Seattle Terminal Properties 01-600
Project Number: 0440-004-22
Logged by: JAB
Date Started: 05/20/10
Surface Conditions: Gravel
Well Location N/S: --
Well Location E/W: --
Reviewed by: Draft
Date Completed: 05/20/10

BORING LOG | K6IW01

K6IW01

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: 14 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppmv)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
15									
20		24 25 30	100	0.54		SP		**Wet, fine to coarse SAND with trace silt (5-95-0). Gray.**	
								Boring terminated at 22' bgs.	
25									
30									

Drilling Co./Driller: Cascade/David
Drilling Equipment: HSA
Sampler Type: --
Hammer Type/Weight: 300 lbs
Total Boring Depth: 22 feet bgs
Total Well Depth: 21 feet bgs
State Well ID No.: --

Well/Auger Diameter: 2" inches
Well Screened Interval: 6 to 21 feet bgs
Screen Slot Size: 0.010 inches
Filter Pack Used: 2/12 Sand
Surface Seal: Portland Cement
Annular Seal: Bentonite
Monument Type: Stickup

Notes/Comments:

SoundEarth Strategies

Project: Seattle Terminal Properties 01-600
Project Number: 0440-004
Logged by: JAB
Date Started: 05/19/10
Surface Conditions: Cement
Well Location N/S: --
Well Location E/W: --
Reviewed by: JAC
Date Completed: 05/19/10

BORING LOG | L5IW01

L5IW01

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: 14 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0								**Concrete**	
		4 4 5	30		L5IW01-01	ML		**Damp, fine sandy SILT, gray (70-30-0).**	
		10 1 3	40		L51W01-2.5	SM		**Damp, silty fine SAND.**	
5		2 7 11	40		L5IW01-04.5			**Damp, silty fine SAND, light brown (40-60-0).**	
		12 11 17	100	0.94	L5IW01-06	ML		**Moist, fine sand SILT, gray with orange mottling (60-40-0).**	
		6 11 17	100	0.65	L51W01-07.5	SM		**Moist, silty fine SAND, light brown (30-70-0).**	
10		8 18 26	100	0.85	L51W01-10	SM		**Moist, silty, fine to medium SAND, gray (25-75-0).**	
		16 19 22			L51W01-15	SM		**Wet, silty, fine to medium SAND, gray with orange mottling (15-85-0).**	
15									
		15 15 19	100	0.64		SW		**Wet, fine to coarse SAND, trace silt, gray (5-95-0).**	
20								**Boring terminated at 21 feet below ground surface.**	
25									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diamter:**	2"	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	5 to 21	feet bgs	Notes
Sampler Type:	--		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	21	feet bgs	**Surface Seal:**	Bentonite		
Total Well Depth:	21	feet bgs	**Annular Seal:**	Portland Cement		
State Well ID No.:	--		**Monument Type:**	Stickup		

SoundEarth Strategies

Project:	Seattle Terminal Properties 01-600
Project Number:	0440-004
Logged by:	JAB
Date Started:	05/19/10
Surface Conditions:	Concrete
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	JAC
Date Completed:	05/19/10

BORING LOG | M5IW01

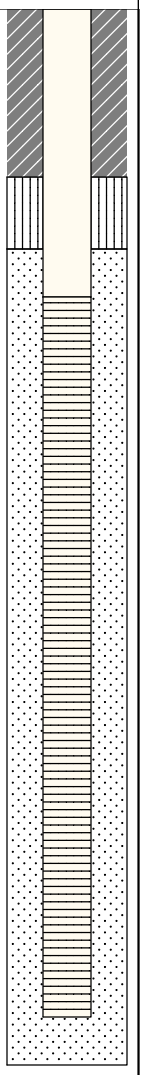
M5IW01

Site Address: 2737 West Commodore Way, Seattle, WA

Water Depth At Time of Drilling: 14 feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description
0								**Concrete.**
		5 14 14	10	0.89	M5IW01-01	ML		**Moist, SILT, trace fine sand, gray (95-5-0).**
		1 5 5	80	1.48	M5IW01-02.5			**Same as above, light brown.**
5		1 5 9	40	0.72	M5IW01-04.5			**Moist, fine sandy SILT, gray, orange mottling at 5.5 feet below ground surface (70-30-0).**
		4 6 6	100	0.97	M5IW01-06	SM		**Moist, silty fine SAND, gray with orange mottling (40-60-0).**
10		16 18 27	100	0.82	M5IW01-10	SM		**Moist, silty fine SAND, trace fine gravel, light brown (20-78-2).**
		15 19 24	100	0.76	M5IW01-15	SM		**Wet,silty fine to coarse SAND, light brown (15-85-0).**
20		50/6	100	0.80		SW		**Wet, fine to coarse SAND, trace silt, gray (5-95-0).**
								Boring terminated at 21 feet bgs and overdrilled to 22 feet bgs.
25								



Drilling Co./Driller:	Cascade/David		**Well/Auger Diamter:**	2"	inches
Drilling Equipment:	HSA		**Well Screened Interval:**	6 to 21	feet bgs
Sampler Type:	--		**Screen Slot Size:**	0.010	inches
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand	
Total Boring Depth:	22	feet bgs	**Surface Seal:**	Portland Cement	
Total Well Depth:	21	feet bgs	**Annular Seal:**	Bentonite	
State Well ID No.:	--		**Monument Type:**	Stick-up	

Notes/Comments:

SoundEarth Strategies

Project:	Seattle Terminal Properties 01-600
Project Number:	0440-004
Logged by:	JAB
Date Started:	05/26/10
Surface Conditions:	Gravel
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	JAC
Date Completed:	05/26/10

BORING LOG | O8IW01

O8IW01

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: 9 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0									
		1 2 2	50	20.68	O8IW01-02.5	ML		**Moist, fine sandy SILT, gray with orange mottling (60-40-0).**	
5		2 2 7	50	0.78	O8IW01-04.5			**Moist, SILT with fine sand, gray (80-20-0).**	
		8 8 8	100	0.23	O8IW01-06			**Moist, SILT with fine sand, gray with minor orange mottling, sheen on sample (80-20-0).**	
		8 9 9	100	118	O8IW01-07.5			**Moist SILT with fine sand, gray, sheen on sample (75-25-0).**	
10		7 7 7	100	589	O8IW01-10	SM		**Wet, silty fine SAND, gray, product on sample (45-55-0).**	
15		15 16 19	100	5.9	O8IW01-15	SM		**Wet, silty fine to medium SAND, gray, product on sample (30-70-0).**	
		18 20 23	100			SP-SM ML		**Fine SAND with silt, gray (10-90-0).** **SILT, trace fine sand, gray (95-5-0).**	
20								**Boring terminated at 21.5 feet below ground surface.**	
25									

Drilling Co./Driller:	Cascade/David		**Well/Auger Diamter:**	2"	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	6 to 21	feet bgs	
Sampler Type:	SPT/CA-SS		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	21.5	feet bgs	**Surface Seal:**	Portland Cement		
Total Well Depth:	21	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	Stickup		

SoundEarth Strategies

Project:	Seattle Terminal Properties 01-600
Project Number:	0440-004
Logged by:	JAB
Date Started:	06/01/10
Surface Conditions:	Gravel
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	JAC
Date Completed:	06/01/10

BORING LOG | P6IW01

P6IW01

Site Address: 2737 West Commodore Way, Seattle, WA

Water Depth At Time of Drilling: 4 feet bgs

Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0		9/9/10	100	0.28	P6IW01-0.5	ML		**Damp, stiff, SILT, few fine sand, gray with orange mottling, no odor (90-10-10).**	
		10/12/15	100	138	P6IW01-02.5			**Same as above, very stiff, strong hydrocarbon odor (90-10-10).**	
		9/14/15	100	277	P6IW01-04.5	SM		**Wet, medium dense, silty fine SAND, gray, strong hydrocarbon odor, sheen on sampler (40-60-0).**	
5		6/8/16	100	67.0	P6IW01-06			**Same as above, no sheen (40-60-0).**	
								Drill straight to 21.5 feet below ground surface (bgs).	
10									
15									
20								**Boring terminated at 21.5 feet bgs.**	
25									

Drilling Co./Driller:	Cascade/Scott		**Well/Auger Diamter:**	2"	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	6 to 21	feet bgs	PID screened on top of sampler.
Sampler Type:	CA-SS		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	21.5	feet bgs	**Surface Seal:**	Portland Cement		
Total Well Depth:	21	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	Stickup		

SoundEarth Strategies

Project:	Seattle Terminal Properties 01-600
Project Number:	0440-004
Logged by:	JAB
Date Started:	06/01/10
Surface Conditions:	Gravel
Well Location N/S:	--
Well Location E/W:	--
Reviewed by:	JAC
Date Completed:	06/01/10

BORING LOG | Q7IW01

Q7IW01

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: 5 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0									
		9 10 11	100	0.81	Q7IW01-0.5	ML		**Gravel** **Damp, SILT with fine sand and trace fine gravel, trace rootlets, gray with orange mottling (70-25-5).**	
		13 15 15	100	2.01	Q7IW01-02.5			**Damp, SILT with fine sand, gray with orange mottling, no hydrocarbon odor (90-10-0).**	
		10 12 12	100	16.59	Q7IW01-04.5			**Moist, SILT with fine sand, light brown, moderate hydrocarbon odor (85-15-0).**	
5		12 15 16	100	54.2	Q7IW01-06			**Wet, SILT with fine sand, sheen on sample, strong hydrocarbon odor (85-15-0).**	
10								**Drill straight to 21.5 feet below ground surface (bgs).**	
15									
20								**Boring terminated at 21.5 feet bgs.**	
25									

Drilling Co./Driller:	Cascade/Scott		**Well/Auger Diamter:**	2"	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	6 to 21	feet bgs	Notes
Sampler Type:	CA-SS		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	21.5	feet bgs	**Surface Seal:**	Portland Cement		
Total Well Depth:	21	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	Stickup		

SoundEarth Strategies

Project: Seattle Terminal Properties 01-600
Project Number: 0440-004
Logged by: JAB
Date Started: 06/02/10
Surface Conditions: Gravel
Well Location N/S: --
Well Location E/W: --
Reviewed by: JAC
Date Completed: 06/02/10

BORING LOG | Q9IW01

Q9IW01

Site Address: 2737 West Commodore Way
Seattle, WA

Water Depth At Time of Drilling: 3.5 feet bgs
Water Depth After Completion: -- feet bgs

Depth (feet bgs)	Interval	Blow Count	% Recovery	PID (ppm)	Sample ID	USCS Class	Graphic	Lithologic Description	Well Construction Detail
0		8 13 15	100	57.6	Q9IW01-0.5	ML		**Gravel** **Moist, SILT with fine sand, light brown, sheen on sample, strong hydrocarbon odor (75-25-0).**	
		8 9 16	100	63.5	Q9IW01-02.5			**Moist, SILT, few fine sand, gray with orange mottling, strong hydrocarbon odor (90-10-0).**	
5		11 13 13	100	524	Q9IW01-04.5	SM		**Wet, silty fine SAND, gray, strong hydrocarbon odor, sheen on sample (40-60-0).**	
		10 12 15	100	12.6	Q9IW01-06			**Wet, silty fine SAND, light brown, strong hydrocarbon odor, sheen on sample (40-60-0).**	
10								**Drill straight to 21.5 feet below ground surface.**	
15									
20									
								Boring terminated at 21.5 feet bgs.	
25									

Drilling Co./Driller:	Cascade/Scott		**Well/Auger Diamter:**	2"	inches	**Notes/Comments:**
Drilling Equipment:	HSA		**Well Screened Interval:**	6 to 21	feet bgs	PID screened on sample surface.
Sampler Type:	CA-SS		**Screen Slot Size:**	0.010	inches	
Hammer Type/Weight:	300	lbs	**Filter Pack Used:**	2/12 Sand		
Total Boring Depth:	21.5	feet bgs	**Surface Seal:**	Portland Cement		
Total Well Depth:	21	feet bgs	**Annular Seal:**	Bentonite		
State Well ID No.:	--		**Monument Type:**	Stickup		

Log of Exploratory Boring:

Notes
No samples taken.

Drilling Co./Driller:	Cascade / Rodney
Drilling Method:	Standard Sonic
Location:	5' East of 01MW21
Surface Condition:	Gravel
Total Depth:	19.85
First GW Depth:	

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0–19								No samples taken.		
20–25								Boring terminated at 22' below ground surface (bgs). Encountered heave when pulling up the drill rod, causing the hole to close to 20' bgs. 01IW01 was set as a 0.010 slot 2-inch-diameter PVC injection well screened from 19.85' to 4.85' bgs and completed with a Portland cement seal.		

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737 W. Commodore Way
Seattle, Washington

Date Started: 7/31/2009
Date Finished: 7/31/2009
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004-18

BORING LOG
01IW01

Log of Exploratory Boring:

Notes
Moisture not noted because heat of drilling method negates field observations.

Drilling Co./Driller:	Cascade / Rodney
Drilling Method:	Standard Sonic
Location:	5' West and 2' South of 01MW21
Surface Condition:	Gravel
Total Depth:	23
First GW Depth:	

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0–4							SM	Silty fine sand with some gravel (20-70-10) (Fill).		
4–7							ML	SILT with some fine sand grading to silt with trace sand, gray, strong hydrocarbon odor (90-10-0).		
7–9							SM	Sily fine-grained SAND, gray, strong hydrocarbon odor (40-60-0).		
9–11							ML	SILT with some fine-grained sand, gray with orange mottling, strong hydrocarbon odor (85-15-0).		
11–17							SP	Fine-grained SAND with some silt, gray, moderate hydrocarbon odor (10-90-0).		
17–22							SP	Fine-grained SAND with trace silt, gray, moderate hydrocarbon odor (5-95-0).		
22–23							ML	SILT with trace fine-grained sand, gray, moderate hydrocarbon odor (98-2-0).		
23–25								Boring terminated at 23' below ground surface (bgs) and converted to 0.010 slot 2-inch- diameter PVC Injection well 01IW02 screened from 22' to 7' bgs.		

SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737 W. Commodore Way
Seattle, Washington

Date Started: 7/31/2009
Date Finished: 7/31/2009
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004-18

BORING LOG
01IW02

Log of Exploratory Boring:

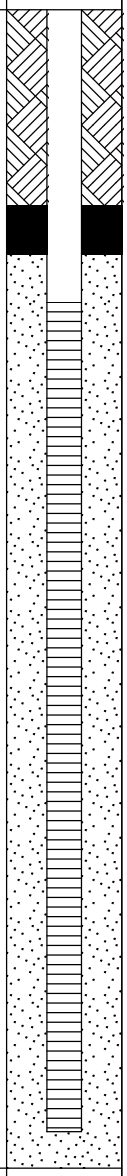
Notes
No samples taken.

Drilling Co./Driller:	Cascade / Andy
Drilling Method:	HSA
Location:	5' North of 01MW21
Surface Condition:	Gravel
Total Depth:	23.75
First GW Depth:	

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0								No samples taken.		
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SOUND ENVIRONMENTAL STRATEGIES
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TOC Holdings Co. Facility No. 01-600
2737 W. Commodore Way
Seattle, Washington

Date Started: 8/26/2009
Date Finished: 8/26/2009
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004-18

BORING LOG
B123/ 01IW03

Log of Exploratory Boring:

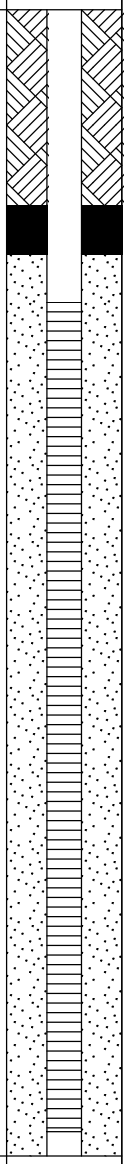
Notes
No samples taken.

Drilling Co./Driller:	Cascade / Andy
Drilling Method:	HSA
Location:	3' West of 01IW03
Surface Condition:	Gravel
Total Depth:	23.5
First GW Depth:	

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0								No samples taken.		
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Log of Exploratory Boring:

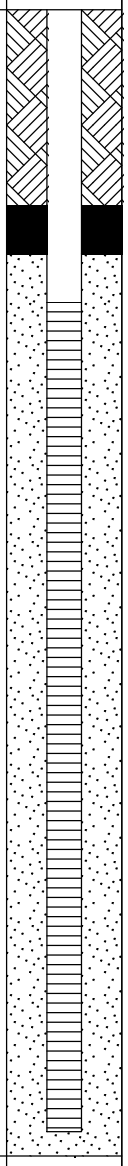
Notes
No samples taken.

Drilling Co./Driller:	Cascade / Andy
Drilling Method:	HSA
Location:	5' North and 5' West of 01MW21
Surface Condition:	Gravel
Total Depth:	23.5
First GW Depth:	

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0								No samples taken.		
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SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737 W. Commodore Way
Seattle, Washington

Date Started: 8/26/2009
Date Finished: 8/26/2009
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004-18

BORING LOG
B125/ 01IW05

Log of Exploratory Boring:

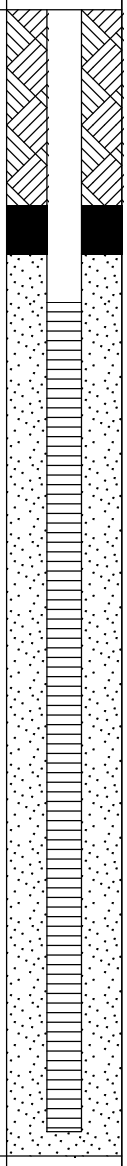
Notes
No samples taken.

Drilling Co./Driller:	Cascade / Andy
Drilling Method:	HSA
Location:	8' West of 01IW04
Surface Condition:	Gravel
Total Depth:	23.5
First GW Depth:	

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0								No samples taken.		
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SOUND ENVIRONMENTAL STRATEGIES
www.soundenvironmental.com

TOC Holdings Co. Facility No. 01-600
2737 W. Commodore Way
Seattle, Washington

Date Started: 8/26/2009
Date Finished: 8/26/2009
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004-18

BORING LOG
B126/ 01IW06

Log of Exploratory Boring:

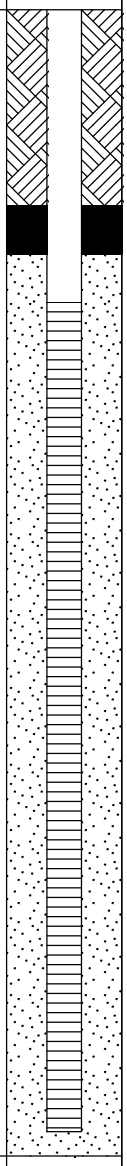
Notes
No samples taken.

Drilling Co./Driller:	Cascade / Andy
Drilling Method:	HSA
Location:	5' North of 01IW05
Surface Condition:	Gravel
Total Depth:	23.5
First GW Depth:	

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0								No samples taken.		
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SOUND ENVIRONMENTAL STRATEGIES
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TOC Holdings Co. Facility No. 01-600
2737 W. Commodore Way
Seattle, Washington

Date Started: 8/26/2009
Date Finished: 8/26/2009
Logged By: JAB
Chk By: DRAFT
SES Project No.: 0440-004-18

BORING LOG
B127/ 01IW07

Log of Exploratory Boring:

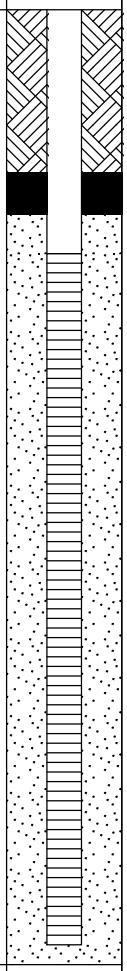
Notes
No samples taken.

Drilling Co./Driller:	Cascade / Andy
Drilling Method:	HSA
Location:	5' West of 01IW07
Surface Condition:	Gravel
Total Depth:	23.5
First GW Depth:	

Moisture Content:
Dry = Dry, Dp = Damp, Mst = Moist, Wet = Wet

Hydrocarbon Odor: NO = no odor, VFO = very faint odor
WO = weak odor, MO = moderate odor, SO = strong odor

Water Levels
▼ After Completion
▽ During Drilling

Depth (feet)	Blow Count	PID	Sample Recovery	Sample Interval	Sample ID	Lithography	USCS Class	Description	Moisture Content	Well Detail
0								No samples taken.		
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