APPENDIX G

Deep Soil Boring Logs

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Building 2		Boring Name: C-2-12
DRILLING COMPANY: Water D	DRILLER: Bryant	Project Name: Boeing C-6, Parcel C
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 8	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered		ELEVATION (ft. MSL): - / TOTAL DEPTH (ft.): 50
LOGGED BY: TD		DATE STARTED: 5-24-01 / DATE COMPLETED: 5-24-01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									No sampling top 20 feet. See log C-2-12 completed 5-11-01.
					5				
					10				
					15				
					20		ML	2.5Y 5/4	Clayey SILT: light olive brown, damp, stiff
					25				
					30				less clay
					35				
					40		SM	2.5Y 6/8	Silty SAND: olive yellow, damp, medium dense

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Boring Log

Kennedy/Jenks Consultants

Boring Name: C-2-12
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

SAMPLES: Drives	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SM	2.5Y 6/8	Silty SAND: olive yellow, damp, medium dense, "shell bed"
					45				
					50				Total Depth = 50'
					55				
					60				
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Building 2	Boring Name: C-2-12-1
DRILLING COMPANY: Water D	DRILLER: Doug
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 8
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): .
	TOTAL DEPTH (ft.): 50
LOGGED BY: M. Balderman	DATE STARTED: 5-24-01
	DATE COMPLETED: 5-24-01

SAMPLES: Drives	Recovered	Collected	Blows per 6"	Soil Gas Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									No sampling top 20 feet.
					5				
					10				
					15				
					20		ML	2.5Y 5/4	Clayey SILT: light olive brown, damp, stiff
					25				
					30				less clay
					35				
					40		SM	2.5Y 6/8	Silty SAND: olive yellow, damp, medium dense, very fine sand

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Boring Log

Kennedy/Jenks Consultants

Boring Name C-2-12-1
Project Name Boeing C-6, Parcel C
Project Number 004032.01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SM	2.5Y 6/8	Silty SAND: olive yellow, damp, loose, very fine sand
					45				
					50				Total Depth = 50'
					55				
					60				
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Building 2	Boring Name: C-2-12-2
DRILLING COMPANY: West Hazmat	DRILLER: Doug
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 8
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): -
	TOTAL DEPTH (ft.): 50
LOGGED BY: M. Balderman	DATE STARTED: 5-24-01
	DATE COMPLETED: 5-24-01

SAMPLES: Intact	SAMPLES: Recovered	SAMPLES: Collected	SAMPLES: Blows per 6"	SAMPLES: Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									No sampling top 20 feet.
					5				
					10				
					15				
					20		ML	2.5Y 5/4	Clayey SILT: light olive brown, damp, stiff
					25				
					30				less clay
					35				
					40		SM	2.5Y 6/8	Silty SAND: olive yellow, damp, loose, very fine sand

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Boring Log

Kennedy/Jenks Consultants

Boring Name C-2-12-2
Project Name Boeing C-6, Parcel C
Project Number 004032.01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SM	2.5Y 6/8	Silty SAND: olive yellow, damp, loose, very fine sand
					45				
					50				Total Depth = 50'
					55				
					60				
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Building 2		Boring Name: C-2-12-3
DRILLING COMPANY: West Hazmat	DRILLER: Doug	Project Name: Boeing C-6, Parcel C
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 8	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered		ELEVATION (ft. MSL): . / TOTAL DEPTH (ft.): 50
LOGGED BY: M. Balderman		DATE STARTED: 5-24-01 / DATE COMPLETED: 5-24-01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									No sampling top 20 feet.
					5				
					10				
					15				
					20		ML	2.5Y 5/4	Clayey SILT: light olive brown, damp, stiff
					25				
					30			2.5Y 5/6	Clayey SILT: light olive brown, damp, dense, less clay
					35				
					40		SM	2.5Y 6/8	Silty SAND: olive yellow, very fine, damp, slightly dense, loose

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Boring Log

Kennedy/Jenks Consultants

Boring Name C-2-12-3
Project Name Boeing C-6, Parcel C
Project Number 004032.01

Samples: Driven	Samples: Recovered	Samples: Collected	Samples: Blows per 6"	Samples: Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SM	2.5Y 6/8	Silty SAND: olive yellow, damp, loose, very fine sand
					45				
					50				Total Depth = 50'
					55				
					60				
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: 53		Boring Name: C-2-26
DRILLING COMPANY: West Hazmat	DRILLER: Doug	Project Name: Boeing C-6, Parcel C
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 6	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered		ELEVATION (ft. MSL): - / TOTAL DEPTH (ft.): 61
LOGGED BY: M. Balderman		DATE STARTED: 5-4-01 / DATE COMPLETED: 5-4-01

Samples: Driven	Samples: Recovered	Samples: Collected	Samples: Blows per 6"	Samples: Mud Spike Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
							SM	10YR 6/6	Silty SAND: brownish yellow, fine to coarse sand, damp, loose
					5		ML	10YR 4/2	Sandy SILT with Clay: dark grayish brown, damp, medium stiff
		X			10			10YR 6/6	Sandy SILT with Clay: brownish yellow, damp, ~30 % sand, medium stiff, massive
					15				
		X			20		SM	10YR 5/4	Silty SAND: yellowish brown, damp, dense, 65 % sand, fine
		X			25		ML	10YR 5/4	Sandy SILT with minor Clay: yellowish brown, 35 % sand, damp, stiff, fine sand
		X			30		SM	10YR 6/6	Silty SAND: brownish yellow, 80 % sand, minor fine mica, damp, dense, fine, brown mottled with gray
					35				
		X			40				minor coarse sand, trace fine gravel

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Boring Log

Kennedy/Jenks Consultants

Boring Name C-2-26
Project Name Boeing C-6, Parcel C
Project Number 004032.01

Depth (feet)	USCS Log	Munsell Color	Description
40	SM	10YR 6/6	Silty SAND: brownish yellow, 80 % sand, minor coarse sand, trace fine gravel
45			
50	ML	10YR 5/4	Sandy SILT with CLay: yellowish brown, stiff, damp, fine
		5Y 6/1	Sandy SILT : gray, mottled, trace fine mica
55			
60	SM	10YR 6/2	Silty SAND: light olive gray, 90 % sand, minor mica, very dense, damp, fine
	ML	5Y 4/1	Sandy SILT: dark gray
			Total Depth = 61'
65			
70			
75			
80			
85			

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: 53	Boring Name: C-2-26-1
DRILLING COMPANY: West Hazmat	DRILLER: Doug
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 6
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): .
	TOTAL DEPTH (ft.): 60
LOGGED BY: Tim Doyle	DATE STARTED: 6-1-01
	DATE COMPLETED: 6-1-01

SAMPLES: Driven	Recovered	Collected	Blows-per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
					5				
		☒			10		ML	2.5Y 4/4	Clayey SILT: olive brown, damp, stiff
					15				
		☒			20			2.5Y 5/4	Clayey SILT: light olive brown, damp, stiff
		☒			25				
		☒			30		ML	2.5Y 5/6	Sandy SILT: light olive brown, damp, stiff
					35				
		☒			40		SM	2.5Y 6/3	Silty SAND: olive yellow, damp, dense

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Boring Log

Kennedy/Jenks Consultants

Boring Name C-2-26-1
Project Name Boeing C-6, Parcel C
Project Number 004032.01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Rad Spec Reading (cpm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SM	2.5Y 6/8	Silty SAND: continued
					45				
					50		ML	2.5Y 6/8	Clayey SILT: olive yellow, damp, stiff
								2.5Y 6/1	mottled gray & yellow
					55				
					60		SM	2.5Y 6/3	Silty SAND: light yellowish brown, damp, loose
									Total Depth = 60'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: 53	Boring Name: C-2-26-2
DRILLING COMPANY: West Hazmat	DRILLER: Doug
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 6
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): .
	TOTAL DEPTH (ft.): 60
LOGGED BY: Tim Doyle	DATE STARTED: 6-1-01
	DATE COMPLETED: 6-1-01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
					5				
		☒			10		ML	10YR 5/4	Clayey SILT: yellowish brown, damp, stiff
					15				
		☒			20			10YR 5/6	Clayey SILT: yellowish brown, damp, stiff, trace amounts of possible calcium carbonate
		☒			25			2.5Y 5/6	Sandy SILT: light olive brown, damp, medium stiff
		☒			30		SM	2.5Y 6/6	Silty SAND: olive yellow, damp, loose, very fine to fine sand
					35				
		☒			40			2.5Y 6/4	Silty SAND: light yellowish brown, damp, loose, very fine to fine sand

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Boring Log

Kennedy/Jenks Consultants

Boring Name C-2-26-2
Project Name Boeing C-6, Parcel C
Project Number 004032.01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Soil Gas Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SM	2.5Y 6/4	Silty SAND: light yellowish brown, damp, loose, very fine to fine sand
					45				
					50			2.5Y 5/6	light olive brown, slightly denser
					55				
					60				Total Depth = 60'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: 58	Boring Name: C-2-33
DRILLING COMPANY: West Hazmat	DRILLER: Doug
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 6
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): -
	TOTAL DEPTH (ft.): 60
LOGGED BY: M. Balderman	DATE STARTED: 5-22-01
	DATE COMPLETED: 5-22-01

SAMPLES: Driven | Recovered | Collected | Blows per 6" | Head Space Reading (ppm)

Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
5				Backfill material
10				
15				
20		ML	2.5Y 4/4	Clayey SILT: olive brown, damp, stiff
25				
30			2.5Y 5/4	light olive brown
35				
40		SM	2.5Y 5/6	Silty SAND: light olive brown, damp, loose, very fine to fine sand

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Boring Log

Kennedy/Jenks Consultants

Boring Name: C-2-33
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

Depth (feet)	Graphic Log	USCS Log	Munsell Color	
40		SM	2.5Y 5/6	Silty SAND: light olive brown, damp, loose, very fine to fine sand
45				
50		ML	5Y 5/3	Sandy SILT: olive, damp, medium stiff, very fine sand
55				
		SM	2.5Y 6/8	Silty SAND: olive yellow, damp, loose
60				Total Depth = 60'
65				
70				
75				
80				
85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: 51	Boring Name: C-2-72
DRILLING COMPANY: West Hazmat	DRILLER: Doug
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 6
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): -
	TOTAL DEPTH (ft.): 60.5
LOGGED BY: M. Balderman	DATE STARTED: 5-4-01
	DATE COMPLETED: 5-4-01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									Clayey Silty SAND: brown, with gravel and concrete (fill)
					5				
		☒			10		ML	10YR 5/4	Sandy SILT: yellowish brown, 40 % fine sand, trace fine mica, damp, medium dense, mottled with disseminated concretions
					15				
		☒			20			10YR 5/4	Clayey SILT: yellowish brown, 20 % fine sand, damp, stiff, mottled with concretions
		☒			25		SM	10YR 6/6 10YR 6/2	Silty SAND: brownish yellow to light brownish gray, 70 % fine sand, trace mica, damp, dense
		☒			30				
					35				
		☒			40		SM/SP	10YR 6/2	Silty SAND: light brownish gray, 90 % sand, trace fine mica, damp, very dense

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Boring Log

Kennedy/Jenks Consultants

Boring Name C-2-72
Project Name Boeing C-6, Parcel C
Project Number 004032.01

Samples: Drives	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SM/SP	10YR 6/2	Silty SAND: light brownish gray, 90 % sand, trace fine mica, damp, very dense
					45				
					50		ML/SM	10YR 5/4 10YR 6/2	Sandy SILT/Silty SAND: yellowish brown, fine silty sand, 75 % sand, minor fine mica, in 1-2 inch intervals with fine sand, minor clay, minor mica, damp, very dense
					55				
					60		SM	10YR 5/4	Silty SAND: yellowish brown, 80 % sand, minor, fine to moderate mica, damp, very dense
									Total Depth = 60.5
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: F31	Boring Name: C-2-143
DRILLING COMPANY: West Hazmat	DRILLER: Travis
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 6
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): -
	TOTAL DEPTH (ft.): 60
LOGGED BY: TD	DATE STARTED: 6-1-01
	DATE COMPLETED: 6-1-01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									No samples collected to 20 feet.
					5				
					10				
					15				
		✓			20		ML	2.5Y 5/6	Clayey SILT: light olive brown, damp, stiff
		✓			25		CL	2.5Y 5/0	Silty CLAY: gray, damp, stiff
		✓			30		ML	2.5Y 5/4	Sandy SILT: light olive brown, damp, medium stiff
					35			2.5Y 6/0	Silty SAND: gray, very fine, damp
		✓			40		SM	2.5Y 6/6	Silty SAND: olive yellow, very fine sand, damp, slightly dense

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Boring Log

Kennedy/Jenks Consultants

Boring Name C-2-143
Project Name Boeing C-6, Parcel C
Project Number 004032.01

Samples: Driven	Samples: Recovered	Samples: Collected	Samples: Blows per 6"	Samples: Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SM	2.5Y 6/1	Silty SAND: olive yellow, very fine sand, damp, slightly dense
					45				
					50		ML	5Y 3/4	Sandy SILT: dark olive, damp, medium stiff
					55				
					60		SM	2.5Y 6/4	Silty SAND: light yellowish brown, damp, loose
									Total Depth = 60'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: Open Space		Boring Name: C-2-149	
DRILLING COMPANY: West Hazmat	DRILLER: Doug	Project Name: Boeing C-6, Parcel C	
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 6	Project Number: 004032.01	
DEPTH TO WATER (ft.): Not Encountered		ELEVATION (ft. MSL): .	TOTAL DEPTH (ft.): 60.5
LOGGED BY: M. Balderman		DATE STARTED: 5-4-01	DATE COMPLETED: 5-4-01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									No samples collected to 20'
					5				
					10				
					15				
					20		ML	10YR 4/2	Clayey SILT: dark grayish brown, 20 % fine sand, damp, stiff
					25		SM	10YR 6/6 10YR 6/2	Silty SAND: brownish yellow, 70 % fine sand, minor fine mica, damp, dense, mottled light brownish gray
					30				
					35				
					40		SP/SM	10YR 6/2	Silty SAND-SAND: light brownish gray, 90 % fine sand, minor fine mica, damp, very dense,

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Boring Log

Kennedy/Jenks Consultants

Boring Name C-2-149
Project Name Boeing C-6, Parcel C
Project Number 004032.01

Depth (feet)	USCS Log	Munsell Color	Description
40	SP/SM	10YR 6/2	Silty SAND-SAND: light brownish gray, 90 % fine sand, minor fine mica, damp, very dense
45			
50	ML	10YR 5/4	Sandy SILT with CLAY: yellowish brown, 25 % sand, damp/moist, stiff, fine shell fragments conc. in layers, (~2 @ ~50.2) minor mica
55			
60	SP	10YR 5/4	SAND: yellowish brown, fine to medium, minor silt, minor fine mica, very dense, damp
			Total Depth = 60.5'
65			
70			
75			
80			
85			

K:\Boeing\C-6 Boring Logs\C-2-149oo.dwg, 7/26/2001

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: F32	Boring Name: C-2-160
DRILLING COMPANY: West Hazmat	DRILLER: Doug
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 6
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): -
	TOTAL DEPTH (ft.): 60.5
LOGGED BY: M. Balderman	DATE STARTED: 5-4-01
	DATE COMPLETED: 5-4-01

SAMPLES: Screen	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									No samples collected to 10'
					5				
		✓			10		ML	10YR 5/4	Clayey SILT: yellowish brown, 30% fine sand, damp, stiff (bottom tube disturbed - used middle)
					15				
		✓			20				minor concretions in local zones
		✓			25		ML/SM	10YR 5/4	Sandy SILT/Silty SAND: ~50% fine sand, trace fine mica, damp, dense, massive
		✓			30		SM	10YR 6/6 10YR 6/2	Silty SAND: brownish yellow, 75% fine sand, trace fine mica, damp, dense brown and gray mottled
					35				
		✓			40		SM		

K:\Boeing\C-6 Boring Logs\C-2-160a.dwg, 7/30/2001

Boring Log

Kennedy/Jenks Consultants

Boring Name: C-2-160
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

Samples: Driven	Samples: Recovered	Samples: Collected	Samples: Blows per 6"	Samples: Root Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SM	.	Silty SAND: continued
					45				
					50		SM	10YR 5/4	Silty SAND: yellowish brown, 80 % fine sand, minor fine mica, moist, very dense ~ 1/2" inter beds stiff gray clayey silt
					55				
					60		ML	10YR 5/4 10YR 6/2	Clayey SILT: yellowish brown - light brownish gray, 20 % fine sand, minor fine mica, moist, stiff - bottom of sample fine silty sand
									Total Depth = 60.5'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: F18	Boring Name: C-2-199
DRILLING COMPANY: West Hazmat	DRILLER: Travis
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 6
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): -
	TOTAL DEPTH (ft.): 60
LOGGED BY: TD	DATE STARTED: 5-25-01
	DATE COMPLETED: 5-25-01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (PPM)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									No samples collected to 20 feet.
					5				
					10				
					15				
		☒			20		ML	2.5Y 5/4	Clayey SILT: light olive brown, damp, stiff
		☒			25				
		☒			30		SM	2.5Y 6/6	Silty SAND: olive yellow, very fine, damp, loose
					35				
		☒			40		SM	2.5Y 6/8	same as above

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Boring Log

Kennedy/Jenks Consultants

Boring Name: C-2-199
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

Samples: Driven	Samples: Recovered	Samples: Collected	Samples: Blows per 6"	Samples: Bed Rock Bedding (rpm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SM	2.5Y 6/8	Silty SAND: olive yellow, damp, loose, very fine
					45				
					50			2.5Y 6/8	olive yellow, damp, loose, very fine to fine sand
					55				
								2.5Y	damp, loose
					60				Total Depth = 60'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: F16	Boring Name: C-2-211
DRILLING COMPANY: West Hazmat; DRILLER: Doug	Project Name: Boeing C-6, Parcel C
DRILLING METHOD (S): Hollow Stem Auger; DRILL BIT (S) SIZE (in.): 1.5	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): - ; TOTAL DEPTH (ft.): 60
LOGGED BY: M. Balderman	DATE STARTED: 5-25-01 ; DATE COMPLETED: 5-25-01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									No samples collected to 20 feet.
					5				
					10				
					15				
		■			20		ML	2.5Y 5/6	Clayey SILT: light olive brown, damp, stiff, trace amounts of sand and gravel
		■			25			2.5Y 5/6	less clay
		■			30		SM	2.5Y 6/6	Silty SAND: olive yellow, damp, loose
		■			35				
		■			40		SM	2.5Y 6/8	same as above, very fine to fine sand

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Boring Log

Kennedy/Jenks Consultants

Boring Name C-2-211
Project Name Boeing C-6, Parcel C
Project Number 004032.01

Samples: Driven	Samples: Recovered	Samples: Collected	Samples: Blows per 6"	Samples: Rad Scan Reading (cpm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SM	2.5Y 6/8	Silty SAND: olive yellow, damp, loose, very fine to fine sand
					45				
					50				
					55				
					60			2.5Y 6/8	Silty SAND: olive yellow, damp, loose
									Total Depth = 60'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: D13	Boring Name: C-2-219
DRILLING COMPANY: West Hazmat	DRILLER: Doug
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 6
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): -
	TOTAL DEPTH (ft.): 60
LOGGED BY: M. Balderman	DATE STARTED: 5-25-01
	DATE COMPLETED: 5-25-01

SAMPLES: Driven | Recovered | Collected | Blows per 6" | Soil Spec Reading (ppm)

Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
				No samples collected to 20 feet.
5				
10				
15				
20		ML	2.5Y 5/4	Clayey SILT: light olive brown, damp, medium stiff
25				
30		SM	2.5Y 6/3	Silty SAND: olive yellow, damp, slightly dense/loose, very fine sand
35				
40		SM	2.5Y 6/4	Silty SAND: light yellowish brown, damp, loose, very fine to fine sand

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Boring Log

Kennedy/Jenks Consultants

Boring Name C-2-219
Project Name Boeing C-6, Parcel C
Project Number 004032.01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SM	2.5Y 6/8	Silty SAND: olive yellow, damp, loose, very fine to fine sand
					45				
					50				
					55				
					60			2.5Y 6/8	Silty SAND: olive yellow, damp, loose
									Total Depth = 60'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: Open Space	Boring Name: C-2-255
DRILLING COMPANY: West Hazmat / DRILLER: Doug	Project Name: Boeing C-6, Parcel C
DRILLING METHOD (S): Hollow Stem Auger / DRILL BIT (S) SIZE (in.): 6	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): - / TOTAL DEPTH (ft.): 60.5
LOGGED BY: M. Balderman	DATE STARTED: 5-4-01 / DATE COMPLETED: 5-4-01

Depth (feet)	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
			Fine to coarse silty sand with gravel and concrete fragments at surface (fill)
5			red brick fragments (fill)
10			
15	ML	10YR 4/2	Clayey SILT: dark grayish brown, minor fine sand, trace fine mica, damp, medium stiff
20			
25	SM	10YR 5/4 10YR 6/2	Fine Silty SAND: yellowish brown, 60 % fine sand, dense, damp, trace fine mica
30		2.5Y 5/4	Fine Silty SAND: yellowish brown, 75 % fine sand, damp, dense, trace fine mica
35			
40		2.5Y 5/4	Fine Silty SAND: yellowish brown as above, 80 % sand, very dense

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Boring Log

Kennedy/Jenks Consultants

Boring Name: C-2-255
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

Depth (feet)	USCS Log	Munsell Color	Description
40	SM	2.5Y 5/4	Silty SAND: brownish yellow, 75 % fine sand, trace fine mica, damp, dense
45			
50	SM	10YR 5/4 5Y 6/1	Silty SAND: yellowish brown, 70 % sand, dense, damp, trace fine mica, brown mottled with gray
55			
60	CL	10YR 5/4 5Y 5/2	Silty CLAY: yellowish brown: minor fine sand, trace fine mica, damp, hard, brown mottled with gray
			Total Depth = 60.5'
65			
70			
75			
80			
85			

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: Open Space	Boring Name: C-2-352
DRILLING COMPANY: West Hazmat / DRILLER: Doug	Project Name: Boeing C-6, Parcel C
DRILLING METHOD (S): Hollow Stem Auger / DRILL BIT (S) SIZE (in.): 6	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): . / TOTAL DEPTH (ft.): 60.5
LOGGED BY: M. Balderman	DATE STARTED: 5-4-01 / DATE COMPLETED: 5-4-01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
					5		CL	5Y 3/2	Silty CLAY: dark olive gray, minor fine sand, damp, medium stiff, medium plasticity
					10		CL	10YR 4/2	Silty CLAY: dark grayish brown, damp, medium stiff, low plasticity
					15				
					20		ML	10YR 5/4	Fine Sandy SILT: yellowish brown, with clay, 30 % fine sand, trace mica, damp, stiff
					25		SM	10YR 5/4 5Y 7/2	Fine Silty SAND: yellowish brown, 65 % fine sand, minor clay, trace fine mica, damp, dense, brown mottled with gray
					30		SM/SP	10YR 6/2 10YR 5/4 10YR 4/4	Sandy SILT/Silty SAND: light brownish gray, 10 % fine sand, minor fine mica, damp, dense, mottled brown and gray
					35				
					40		SM	10YR 6/2 (dry) 10YR 5/4 (wet)	Fine Silty SAND: light brownish gray, 85 % fine sand, trace fine mica, damp, dense

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Boring Log

Kennedy/Jenks Consultants

Boring Name C-2-352
Project Name Boeing C-6, Parcel C
Project Number 004032.01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	Description
					40		SM	10YR 6/2 (dry) 10YR 6/2 (wet)	Fine Silty SAND: light brownish gray, 85 % fine sand, trace fine mica, damp, dense
					45				
					50		CH/CL	10YR 6/2	Top sample SAND as above at 49.7' Silty CLAY: light brownish gray, high plasticity, hard
					55				
					60		SM	5Y 6/1 (dry) 10YR 6/2 (moist)	Fine Silty SAND: light brownish gray, 80 % fine sand, minor fine mica, damp, very dense
									Total Depth = 60.5'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Building 36	Boring Name: 2BB-36-11
DRILLING COMPANY: Water D	DRILLER: Brian
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 8
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): -
	TOTAL DEPTH (ft.): 60
LOGGED BY: JK	DATE STARTED: 5-17-01
	DATE COMPLETED: 5-17-01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
							CL	10YR 3/4	Silty CLAY: dark yellowish brown, moist, stiff
					5				
					10		ML	2.5Y 4/4	Clayey SILT: olive brown, damp, stiff
					15				
					20				less clay
					25				
					30				
					35				
					40				slightly more clay

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Boring Log

Kennedy/Jenks Consultants

Boring Name 2BB-36-11
Project Name Boeing C-6, Parcel C
Project Number 004032.01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Total Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		ML		Clayey SILT: continued
					45				
					50		SM	10YR 6/8	Silty SAND: brownish yellow, damp, loose, slight odor
					55				
					60			5Y 4/4	olive, increase in odor
									Total Depth = 60'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: 3-0	Boring Name: 3-0-1
DRILLING COMPANY: West Hazmat	DRILLER: Doug
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 6
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): -
	TOTAL DEPTH (ft.): 60
LOGGED BY: M. Balderman	DATE STARTED: 5-16-01
	DATE COMPLETED: 5-16-01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									6" Asphalt
							CL	10YR 4/6	Silty CLAY: dark yellowish brown, moist, stiff, trace amounts of gravel
					5				
					10				Silty CLAY: dark yellowish brown, damp/dry, stiff
					15				
					20		ML	10YR 5/4	Clayey SILT: yellowish brown, damp, stiff
					25				
					30			10YR 5/3	Clayey SILT: brown, damp, stiff, slightly less clay
					35				
					40				

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Boring Log

Kennedy/Jenks Consultants

Boring Name 3-0-1
Project Name Boeing C-6, Parcel C
Project Number 004032.01

Samples: Driven	Samples: Recovered	Samples: Collected	Samples: Blows per 6"	Samples: Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		ML	10YR 5/3	Clayey SILT: brown, damp, stiff, slightly less clay
					45				
					50		ML	5Y 5/2	Clayey SILT: olive gray, damp/moist, medium stiff
					55				
					60		SM	2.5Y 5/6	Silty SAND: light olive brown, moist, loose
									Total Depth = 60'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: 15	Boring Name: 15
DRILLING COMPANY: West Hazmat	DRILLER: Doug
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 6
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): -
	TOTAL DEPTH (ft.): 60
LOGGED BY: M. Balderman	DATE STARTED: 5-17-01
	DATE COMPLETED: 5-17-01

SAMPLES: Driven | Recovered | Cutting Lab | Blows per 6" | Head Space Reading (ppm)

Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
5		CL	10YR 5/4	Silty CLAY: yellowish brown, damp, stiff
10				
15				
20		ML	10YR 5/4	Clayey SILT: yellowish brown, damp, stiff
25				
30		SM	2.5Y 5/4	Silty SAND: light olive brown, damp, medium stiff, very fine sand, poorly sorted
35				
40			10YR 5/6	Silty SAND: yellowish brown, damp, loose, very fine sand, poorly sorted

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Boring Log

Kennedy/Jenks Consultants

Boring Name 15
Project Name Boeing C-6, Parcel C
Project Number 004032.01

Depth (feet)	Graphic Log	USCS Log	Munsell Color	
40		SM	10YR 5/6	Silty SAND: yellowish brown, damp, loose, very fine sand, poorly sorted
45				
50		SM	2.5Y 5/6 5G 5/2	Silty SAND: mottled light olive brown and grayish green, damp, loose, very fine sand, poorly sorted
55				
60		SM	2.5Y 5/2	Silty SAND: grayish brown, very fine, damp/moist, medium dense
				Total Depth = 60'
65				
70				
75				
80				
85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: Parcel D		Boring Name: D-1	
DRILLING COMPANY: West Hazmat	DRILLER: Steve	Project Name: Boeing C-6, Parcel C	
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 6	Project Number: 004032.01	
DEPTH TO WATER (ft.): Not Encountered		ELEVATION (ft. MSL): -	TOTAL DEPTH (ft.): 55
LOGGED BY: TD		DATE STARTED: 11-29-01	DATE COMPLETED: 11-29-01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									0-35' logged from cuttings
					5		ML	10YR 4/4	Sandy SILT to Clayey SILT: dark yellowish brown, damp, stiff
					10				
					15				
					20				
					25				
					30				
					35		SM	2.5Y 5/6	Silty SAND: light olive brown, very fine to fine sand, damp, medium dense, trace amounts of iron oxide staining (orange)
					40				

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Boring Log

Kennedy/Jenks Consultants

Boring Name: D-1
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

Depth (feet)	Graphic Log	USCS Log	Munsell Color	
40		SM		Silty SAND: continued
45		SP	2.5Y 5/6	SAND: light olive brown, very fine, dense, some iron staining (orange)
50		SP	2.5Y 5/6	SAND: light olive brown, very fine to medium sand, damp, dense, some iron staining
55				Total Depth = 55'
60				
65				
70				
75				
80				
85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: Open Space	Boring Name: D-29
DRILLING COMPANY: West Hazmat	DRILLER: Steve
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 4
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): 70	ELEVATION (ft. MSL): -
	TOTAL DEPTH (ft.): 70
LOGGED BY: TD	DATE STARTED: 1-29-01
	DATE COMPLETED: 1-29-01

SAMPLES: Screen	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									4" Asphalt 4" Concrete
							CL	10YR 4/4	Silty CLAY: dark yellowish brown, damp, stiff
					5				
					10				
					15		ML	10YR 4/6	Clayey SILT: dark yellowish brown, damp, stiff
					20				
					25				
					30				
					35				
					40				

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Boring Log

Kennedy/Jenks Consultants

Boring Name: D-29
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

Samples: Drive	Samples: Recovered	Samples: Collected	Samples: Blows per 6"	Samples: Rod Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		ML	10YR 4/6	Clayey SILT: dark yellowish brown, damp, stiff
					45				
					50		SP	10YR 5/4	SAND: yellowish brown, fine grain, damp, medium dense
					55				
					60		SP	10YR 5/4	SAND: yellowish brown, medium grain, damp, medium dense
					65				
					70				Groundwater
									Total Depth = 70'
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: F20	Boring Name: F20-5
DRILLING COMPANY: WDC	DRILLER: Ron
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 8
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): .
	TOTAL DEPTH (ft.): 61
LOGGED BY: TD	DATE STARTED: 5-11-01
	DATE COMPLETED: 5-11-01

SAMPLES: Driven | Recovered | Collected | Blows per 6" | Head Space Reading (ppm)

Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
				Gravel at surface
5				
10				Fill - mixed soils / scattered gravel
15				
20		ML	10YR 5/4	Fine Sandy SILT with CLAY: yellowish brown, 30 % fine sand, damp, stiff
25		SM	10YR 6/2 10YR 6/6	Fine Silty SAND: light brownish gray to brownish yellow, 70 % fine sand, dense, mottled color
30			10YR 6/6	Fine Silty SAND: brownish yellow, 80 % sand, damp, very dense
35				
40				

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Boring Log

Kennedy/Jenks Consultants

Boring Name F20-5
Project Name Boeing C-6, Parcel C
Project Number 004032.01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SM	10YR 6/6	Fine Silty SAND: brownish yellow, 80 % sand, damp, very dense
					45				
					50		SP	10YR 7/4	Fine to Medium SAND: very pale brown, minor silt, ~15 % hard nodules, damp, very dense
					55				
					60		SM	10YR 5/4	Fine Silty SAND: yellowish brown, 65 % fine sand, trace fine mica, damp, very dense
									Total Depth = 61'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: Open Space	Boring Name: I24
DRILLING COMPANY: West Hazmat / DRILLER: Steve	Project Name: Boeing C-6, Parcel C
DRILLING METHOD (S): Hollow Stem Auger / DRILL BIT (S) SIZE (in.): 6	Project Number: 004032.01
DEPTH TO WATER (ft.): 70	ELEVATION (ft. MSL): . / TOTAL DEPTH (ft.): 75
LOGGED BY: TD	DATE STARTED: 11-29-01 / DATE COMPLETED: 11-29-01

Depth (feet)	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
5	CL	10YR 4/4	Silty CLAY: dark yellowish brown, damp, stiff
10	ML	10YR 4/6	Clayey SILT: dark yellowish brown, damp, stiff
15			
20	ML	10YR 4/4	dark yellowish brown, damp, stiff, less clay than 15'
25			
30	SM	10YR 5/4	Silty SAND: yellowish brown, damp, medium dense
35			
40			

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Boring Log

Kennedy/Jenks Consultants

Boring Name: I24
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

Samples: Driven	Samples: Recovered	Samples: Collected	Samples: Blows per 6"	Samples: Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SM	10YR 5/4	Silty SAND: yellowish brown, damp, medium dense
					45				
					50				
					55				
					60		SP	10YR 5/4	SAND: yellowish brown, very fine to medium, damp, dense
					65				
					70				
					75				Total Depth = 75'
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: Open Space	Boring Name: I34
DRILLING COMPANY: West Hazmat	DRILLER: Steve
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 6
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): 70	ELEVATION (ft. MSL): -
	TOTAL DEPTH (ft.): 70
LOGGED BY: TD	DATE STARTED: 1-22-01
	DATE COMPLETED: 1-22-01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									8" Concrete
							CL	10YR 4/4	Silty CLAY: dark yellowish brown, damp, stiff, some plasticity
					5				
					10				
					15				
					20		ML	10YR 4/6	Clayey SILT: dark yellowish brown, damp, stiff, some plasticity
					25				
					30				
					35				
					40		SM	10YR 5/6	Silty SAND: yellowish brown, damp, dense, very fine

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Boring Log

Kennedy/Jenks Consultants

Boring Name: I34
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

Depth (feet)	USCS Log	Munsell Color	
40	SM	10YR 5/6	Silty SAND: yellowish brown, damp, dense, very fine
45			
50			
55			
60	ML	10YR 4/6	Clayey SILT: dark yellowish brown, damp, stiff
	SM	10YR 5/4	Silty SAND: yellowish brown, fine to medium, dense
65			
70			Total Depth = 70'
75			
80			
85			

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: PD2		Boring Name: PD2
DRILLING COMPANY: West Hazmat	DRILLER: Doug	Project Name: Boeing C-6, Parcel C
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 6	Project Number: 004032.01
DEPTH TO WATER (ft.): 70		ELEVATION (ft. MSL): - / TOTAL DEPTH (ft.): 70
LOGGED BY: M. Balderman		DATE STARTED: 5-4-01 / DATE COMPLETED: 5-4-01

Samples: Driven	Samples: Recovered	Samples: Collected	Samples: Blows per 6"	Samples: Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									fine to coarse Clayey/Silty SAND with gravel and rubble at surface
					5				fill - mixed soils, brick and tile
					10				fill - mixed soils
					15				fill - mixed soils and brick pieces
					20		ML	10YR 5/4	Sandy SILT with CLAY: yellowish brown, 35 % fine sand, damp, stiff, massive
					25				
					30		ML	10YR 5/4	Clayey SILT: yellowish brown, 25 % fine sand, damp, stiff
					35				
					40		SP	10YR 7/4 (dry) 10YR 5/4 (wet)	SAND: very pale brown to yellowish brown, fine to medium, minor silt, fine mica, damp, dense, massive

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Boring Log

Kennedy/Jenks Consultants

Boring Name: PD2
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

Depth (feet)	Graphic Log	USCS Log	Munsell Color	Description
40		SP		SAND: continued
45				
50		SM	10YR 6/6	Silty SAND: brownish yellow, fine, 80 % sand, damp, dense, minor fine mica, scattered shell fragments
55				
60		SM	10YR 6/2 10YR 5/4	Silty SAND: light brownish gray to yellowish brown, fine, 65 % sand, minor fine mica, moist, dense, mottled brown and gray (Note - saved middle tube - bottom one disturbed)
65				
70		SM	10YR 5/4	Silty SAND: yellowish brown, fine, 75 % sand, minor fine mica, wet, very dense
				Total Depth = 70'
75				
80				
85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: PD16	Boring Name: PD16
DRILLING COMPANY: Water D	DRILLER: Brian
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 8
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): - / TOTAL DEPTH (ft.): 70
LOGGED BY: TD	DATE STARTED: 1-4-00 / DATE COMPLETED: 1-4-00

SAMPLES: Driven, Recovered, Collected, Blows per 6", Head Space Reading (ppm)

Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
		CL	10YR 3/3	Silty CLAY: dark brown, damp, stiff
5				mottled with iron stained nodules and calcium nodules
			10YR 4/6	dark yellowish brown
10				
		ML	10YR 4/4	Clayey SILT: dark yellowish brown, damp, stiff
15				decreasing clay
20				
25		CL	10YR 4/3	Silty CLAY: brown, damp, very stiff
30				
35				
40				

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Boring Log

Kennedy/Jenks Consultants

Boring Name: PD16
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

Depth (feet)	Graphic Log	USCS Log	Munsell Color	Description
40		CL		Silty CLAY: continued
45				
50		SM	2.5Y 5/4	Silty SAND: light olive brown, very fine, damp, medium dense
55				
60		ML	2.5Y 5/4	Sandy SILT: olive brown, damp, stiff, strong odor
65				
70		SM	2.5Y 5/6	Silty SAND: light olive brown, fine, strong odor, moist, dense
				Total Depth = 70'
75				
80				
85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: PD20		Boring Name: PD20
DRILLING COMPANY: West Hazmat	DRILLER: Steve	Project Name: Boeing C-6, Parcel C
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 6	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered		ELEVATION (ft. MSL): - / TOTAL DEPTH (ft.): 60
LOGGED BY: TD		DATE STARTED: 2-6-01 / DATE COMPLETED: 2-6-01

Depth (feet)	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
0–9	CL	10YR 4/4	Silty CLAY: dark yellowish brown, moist to wet, medium stiff
9–29	ML	10YR 4/4	Clayey SILT: dark yellowish brown, damp, stiff
29–29	ML	10YR 4/6	dark yellowish brown, less clay content, increasingly silty
29–40	ML	2.5Y 4/4	SILT: olive brown, damp, stiff

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Boring Log

Kennedy/Jenks Consultants

Boring Name: PD20
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40				
					45				
					50		ML	5Y 4/4	SILT: olive, damp, stiff, trace amounts of very fine sand, with iron staining
							SM	2.5Y 5/6	Silty SAND: light olive brown, moist, medium dense, very fine to medium sand
					55				
					60				Total Depth = 60'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: PD21	Boring Name: PD21
DRILLING COMPANY: West Hazmat	DRILLER: Steve
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 6
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): -
	TOTAL DEPTH (ft.): 60
LOGGED BY: Tim Doyle	DATE STARTED: 2-6-01
	DATE COMPLETED: 2-6-01

SAMPLES: Driven | Recovered | Collected | Blows per 6" | Head Space Reading (ppm)

Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
				6" Asphalt
		ML	10YR 4/6	Clayey SILT: yellowish brown, damp, stiff
5				
10				increase in clay content
15		SM	10YR 6/4	Silty SAND: light yellowish brown, damp, medium stiff, very fine sand
20				
25				
30		ML	2.5Y 5/6	Clayey SILT: light olive brown, damp, stiff
35				
40		CL	2.5Y 4/4	Silty CLAY: olive brown, damp, stiff, low plasticity

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Boring Log

Kennedy/Jenks Consultants

Boring Name: PD21
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

SAMPLES: Bulk	Recovered	Collected	Blows per 6"	Soil Gas Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		CL		Silty CLAY: continued
					45				
					50		SM	2.5Y 5/6	Silty SAND: light olive brown, damp, medium dense, mottled with iron staining
					55				
					60				Total Depth = 60'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: PD22	Boring Name: PD22
DRILLING COMPANY: West Hazmat	DRILLER: Steve
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 6
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): -
	TOTAL DEPTH (ft.): 60
LOGGED BY: Tim Doyle	DATE STARTED: 2-6-01
	DATE COMPLETED: 2-6-01

SAMPLES: Drives	Recovered	Collected	Blows per 6"	Soil Gas Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									6" Asphalt
							ML	10YR 4/6	Clayey SILT: dark yellowish brown, damp, stiff, trace amounts of medium sand
					5				
					10				
					15		SM	2.5Y 5/6	Silty SAND: light olive brown, damp, dense, very fine sand
					20		ML	2.5Y 4/4	SILT: olive brown, damp, stiff, trace amounts of clay content
					25				
					30		SM	2.5Y 4/4	Silty SAND: olive brown, damp, dense, very fine sand
					35				
					40		ML	2.5Y 4/4	SILT: olive brown, damp, stiff, some clay

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Boring Log

Kennedy/Jenks Consultants

Boring Name PD22
Project Name Boeing C-6, Parcel C
Project Number 004032.01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Bed Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40				
					45				
					50		ML	2.5Y 4/4	SILT: olive brown, damp, stiff
					55				
					60		ML	2.5Y 5/4	light olive brown, slight odor
									Total Depth = 60'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: PD23		Boring Name: PD23
DRILLING COMPANY: Water D	DRILLER: Rod	Project Name: Boeing C-6, Parcel C
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 8	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered		ELEVATION (ft. MSL): . / TOTAL DEPTH (ft.): 61
LOGGED BY: M. Balderman		DATE STARTED: 5-11-01 / DATE COMPLETED: 5-11-01

Samples: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									Clayey SILT w/sand and gravel at surface
							ML	10YR 4/2	Clayey SILT: dark grayish brown, minor fine sand, damp, medium stiff
		X			5				
		X			10		SM	10YR 5/4	Silty SAND: yellowish brown, 60 % fine sand, minor clay, damp, dense
		X			15				
		X			20		ML	10YR 5/4	Sandy SILT: yellowish brown, 35 % fine sand, damp, medium stiff
					25		SM	10YR 5/4	Silty SAND: yellowish brown, 60 % fine sand, trace fine mica, damp, dense, minor gray mottling
		X			30		ML	10YR 5/4	Sandy SILT: yellowish brown, 40 % fine sand, damp, dense
					35				
		X			40				mottled with CaCO3

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Boring Log

Kennedy/Jenks Consultants

Boring Name: PD23
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

Depth (feet)	Graphic Log	USCS Log	Munsell Color	Description
40		ML		Sandy SILT: continued
45				
50		SM	10YR 6/2 10YR 6/6	Silty SAND: light brownish gray to brownish yellow, 70 % sand, trace fine mica, damp/moist, dense, mottled
55				
60		SM	10YR 6/6	Silty SAND: brownish yellow, fine to medium, 80 % sand, trace fine mica, damp, dense
				Total Depth = 61'
65				
70				
75				
80				
85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: PD24	Boring Name: PD24
DRILLING COMPANY: Kehoe	DRILLER: Steve
DRILLING METHOD (S): Direct Push	DRILL BIT (S) SIZE (in.): 1.5
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): -
	TOTAL DEPTH (ft.): 60
LOGGED BY: JK	DATE STARTED: 5-15-01
	DATE COMPLETED: 5-16-01

SAMPLES: Driven | Recovered | Collected | Blows per 6" | Head Space Reading (ppm)

Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
				4" Asphalt
		CL	10YR 3/3	Silty CLAY: dark brown, slightly moist, very stiff
5		ML	10YR 5/6	Clayey SILT: yellowish brown, slightly moist, stiff
10				slightly moist, hard
15				
		SM	10YR 5/6	Silty SAND: yellowish brown, fine, dry, dense
20				
		ML	10YR 4/4	Clayey SILT: dark yellowish brown, moist, firm
25				
30		CL	10YR 4/4	Silty CLAY: dark yellowish brown, slightly moist, hard
35				
40				moist, very stiff

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Boring Log

Kennedy/Jenks Consultants

Boring Name PD24
Project Name Boeing C-6, Parcel C
Project Number 004032.01

Samples: Driven	Samples: Recovered	Samples: Collected	Samples: Blows per 6"	Samples: Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		CL		Silty CLAY: continued
					45				
					50		SM	5Y 5/3	Silty SAND: olive, very fine, moist/damp, medium dense
					55				
					60				Total Depth = 60'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: PD25		Boring Name: PD25
DRILLING COMPANY: Kehoe	DRILLER: Steve	Project Name: Boeing C-6, Parcel C
DRILLING METHOD (S): Direct Push	DRILL BIT (S) SIZE (in.): 1.5	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered		ELEVATION (ft. MSL): - / TOTAL DEPTH (ft.): 50
LOGGED BY: JK		DATE STARTED: 5-14-01 / DATE COMPLETED: 5-15-01

Samples: Driven	Samples: Recovered	Samples: Collected	Samples: Blows per 6"	Samples: Sand Spec Sampling (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									3" Asphalt
					5				
		X			10		ML	10YR 4/4	Clayey SILT: dark yellowish brown, slightly moist, very stiff
					15				
		X			20				moist, stiff
							CL	10YR 5/4	Silty CLAY: yellowish brown, slightly moist, hard, with some calcareous stringers
		X			25				
		X			30		ML	10YR 4/4	SILT with some Clay: dark yellowish brown, trace of fine sand, moist, stiff
					35				
		X			40		ML	10YR 4/4	Sandy SILT: dark yellowish brown, moist, very stiff, trace of clay

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Boring Log

Kennedy/Jenks Consultants

Boring Name: PD25
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		ML		Sandy SILT: continued
					45				
							ML	10YR 6/3	Clayey SILT: pale brown, moist, soft
					50				Boring terminated at 50' due to refusal, push rod seized in the hole.
					55				
					60				
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: PD26	Boring Name: PD26
DRILLING COMPANY: Water D / DRILLER: Rod	Project Name: Boeing C-6, Parcel C
DRILLING METHOD (S): Hollow Stem Auger / DRILL BIT (S) SIZE (in.): 8	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): - / TOTAL DEPTH (ft.): 61
LOGGED BY: M. Balderman	DATE STARTED: 5-11-01 / DATE COMPLETED: 5-11-01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									Fill - mixed soils at surface
									No samples collected to 9 feet.
					5				
					10		ML	10YR 4/4	Sandy SILT: dark yellowish brown, 35 % fine sand, minor clay, damp, medium stiff
					15				
					20				stiff
					25				increased clay, very stiff
					30		SM/ML	10YR 5/4	Sandy SILT and Silty SAND: yellowish brown, varying 40-60 % sand in layers, damp, very dense
					35				
					40		SM	10YR 6/6 10YR 6/2	Silty SAND with Clay: brownish yellow to light brownish gray, trace mica, moist, very dense, brown and gray mottled hard silty clay

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Boring Log

Kennedy/Jenks Consultants

Boring Name PD26
Project Name Boeing C-6, Parcel C
Project Number 004032.01

Samples: Driven	Samples: Recovered	Samples: Collected	Samples: Blows per 6"	Samples: Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SM		Silty SAND: continued
					45				
					50		ML	10YR 5/4 10YR 6/6	Clayey SILT: yellowish brown to brownish yellow, 20 % fine sand, moist, stiff, with irregular layers, fine silty sand, mottled color
					55				
					60		SM/ML	5Y 5/2 5Y 4/4	Sandy SILT-CLayey SILT: olive gray to olive, fine silty sand inter layered, moist, stiff, mottled color
									Total Depth = 61'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: PD27		Boring Name: PD27
DRILLING COMPANY: Water D	DRILLER: Brian	Project Name: Boeing C-6, Parcel C
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 8	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered		ELEVATION (ft. MSL): . / TOTAL DEPTH (ft.): 60
LOGGED BY: M. Balderman		DATE STARTED: 5-18-01 / DATE COMPLETED: 5-18-01

Samples: Driven	Samples: Recovered	Samples: Collected	Samples: Blows per 6"	Samples: Red Spec Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									mixed soil and concrete rubble at surface
									No samples collected to 9 feet.
					5				
		X			10		ML	10YR 5/4	Clayey SILT: yellowish brown, fine sand, damp, stiff, local CaC03 mottling
					15				
		X			20				Sandy SILT: yellowish brown, 40 % fine sand, minor clay, damp, stiff
		X			25				moist
		X			30			10YR 5/4 5Y 5/2	yellowish brown to olive gray, chemical odor
					35				
		X			40		ML/SM	10YR 5/4	Sandy SILT and Silty SAND: yellowish brown, 50 % fine sand, moist, dense, strong acetone odor

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Boring Log

Kennedy/Jenks Consultants

Boring Name: PD27
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

Depth (feet)	USCS Log	Munsell Color	Description
40	ML/SM		Sandy SILT and Silty SAND: continued
45			strong acetone odor at top boring cutting, moist
50	SM	10YR 6/6 10YR 6/2	Silty SAND: brownish yellow to yellowish brown, 65 % sand, moist, dense, mottled color, strong acetone odor
55			
	SM	5Y 6/1 10YR 5/4	Silty SAND: gray to yellowish brown, 75 % fine sand, moist, dense, mottled color, strong acetone odor
60			Total Depth = 60'
65			
70			
75			
80			
85			

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: PD28	Boring Name: PD28
DRILLING COMPANY: Water D	DRILLER: Brian
DRILLING METHOD (S): Hollow-Stem Auger	DRILL BIT (S) SIZE (in.): 8
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): -
	TOTAL DEPTH (ft.): 60
LOGGED BY: M. Balderman	DATE STARTED: 5-22-01
	DATE COMPLETED: 5-22-01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									No samples collected to 9 feet.
					5				
		☒			10		CL	2.5Y 4/4	Silty CLAY: olive brown, damp, stiff
					15				
		☒			20		ML	2.5Y 5/4	Clayey SILT: light olive brown, damp, stiff
		☒			25			2.5Y 4/4	olive brown
		☒			30			2.5Y 3/3	dark olive brown
					35				
		☒			40			2.5Y 4/4	olive brown, slightly more clay content, stiff

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Boring Log

Kennedy/Jenks Consultants

Boring Name PD28
Project Name Boeing C-6, Parcel C
Project Number 004032.01

Samples: Driven	Samples: Recovered	Samples: Collected	Samples: Blows per 6"	Samples: Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		ML		Clayey SILT: continued
					45				
					50		SM	2.5Y 5/4	Silty SAND: light olive brown, very fine, damp, loose, odor
					55				
					60				Total Depth = 60'
					65				
					70				
					75				
					80				
					85				

K:\Boeing\C-6 Boring Logs\PD28aa.dwg, 8/2/2001

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: PD29	Boring Name: PD29
DRILLING COMPANY: Water D	DRILLER: Brian
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 8
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): -
	TOTAL DEPTH (ft.): 60
LOGGED BY: M. Balderman	DATE STARTED: 5-18-01
	DATE COMPLETED: 5-18-01

Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									Fill - mixed soils with brick fragments at surface
									No samples collected to 19 feet.
					5				
					10				
					15				
					20		ML	10YR 5/4	Clayey SILT: yellowish brown, minor fine sand, local concentration CaC03, damp, medium stiff
					25				
					30				
					35				
					40		ML/SM	10YR 5/4	Sandy SILT and Silty SAND: yellowish brown, inter layered, 35-60 % fine sand, damp, moist, dense

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Boring Log

Kennedy/Jenks Consultants

Boring Name: PD29
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

Samples: Driven	Samples: Recovered	Samples: Collected	Samples: Blows per 6"	Samples: Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		ML/SM		Sandy SILT and Silty SAND: continued
					45				
					50		SM	10YR 6/6 5Y 8/1	Silty SAND: brownish yellow to white, 80 % sand, scattered fine shell fragments, damp, dense, mottled color
					55				
								10YR 5/4	Silty SAND: yellowish brown to olive gray, 75 % sand, damp, moist, dense
								5Y 5/2	Sandy SILT: olive gray, 40 % sand, moist, stiff
					60				Total Depth = 60'
					65				
					70				
					75				
					80				
					85				

K:\Boeing\C-6 Boring Logs\PD29aa.dwg, 8/2/2001

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: PD30	Boring Name: PD30
DRILLING COMPANY: Water D	DRILLER: Brian
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 8
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): -
	TOTAL DEPTH (ft.): 60
LOGGED BY: M. Balderman	DATE STARTED: 5-18-01
	DATE COMPLETED: 5-18-01

Samples: Driven	Samples: Recovered	Samples: Collected	Samples: Blows per 6"	Samples: Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									No samples collected to 10 feet.
					5				
					10				Fill - mixed soils with brick fragment
					15				
					20		ML	10YR 5/4	Sandy SILT: yellowish brown, minor clay, 35 % sand, local CaC03 concentrations, damp, stiff
					25				
					30		ML	10YR 5/4 10YR 6/2	Clayey SILT: yellowish brown to light brownish gray, minor fine sand, damp, stiff, mottled colors
					35				
					40		SM	10YR 6/2	Silty SAND: light brownish gray, 80 % fine sand, damp, dense, thin inter beds fine sandy silt, local Fe stain

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Boring Log

Kennedy/Jenks Consultants

Boring Name: PD30
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

SAMPLES: Drive	Recovered	Collected	Blows per 6"	Soil Type Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SM		Silty SAND: continued
					45				
					50		SM	10YR 6/6	Silty SAND: brownish yellow, 70 % sand, trace fine mica, minor fine shell fragments, moist, dense
					55				
							SM	10YR 5/4	Silty SAND: yellowish brown, minor clay, trace fine mica, 60 % sand, moist, very dense
					60				Total Depth = 60'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: PD32		Boring Name: PD32
DRILLING COMPANY: West Hazmat	DRILLER: Doug	Project Name: Boeing C-6, Parcel C
DRILLING METHOD (S): Hollow-Stem Auger	DRILL BIT (S) SIZE (in.): 8	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered		ELEVATION (ft. MSL): . / TOTAL DEPTH (ft.): 60
LOGGED BY: TD		DATE STARTED: 6-1-01 / DATE COMPLETED: 6-1-01

Samples: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
									No samples collected to 9 feet.
					5				
					10		CL	10YR 4/6	Silty CLAY: dark yellowish brown, damp, stiff
					15				
					20		ML	2.5Y 4/4	Clayey SILT: olive brown, damp, stiff, trace amounts of calcium carbonate
					25				
					30				slightly more silt than above
					35				
					40		SM	2.5Y 6/1	Silty SAND: gray, damp, loose

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HALEY & ALDRICH

TEST BORING REPORT

Boring No. PD-34

Project Former Boeing C-6 Facility Torrance, CA
Client Boeing Realty Corporation
Contractor West Hazmat Drilling

File No. 27285-001
Sheet No. 1 of 3
Start June 7, 2001
Finish June 7, 2001
Driller T. Barrow
H&A Rep. J. Talpey
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	Auger	SS	--	Rig Make & Model: CME-95
Inside Diameter (in.)	4-1/4	2	--	Bit Type: Cutting Head
Hammer Weight (lb.)	--	140	-	Drill Mud: None
Hammer Fall (in.)	--	30	-	Casing: HSA
				Hoist/Hammer: Winch Safety Hammer

Depth (ft.)	SPT*	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0							Advanced augers to 10.0 ft. without sampling.										
5																	
10	15 19 22	S1 18 in.	10.0 11.5			ML	Dense brown gravelly SILT, with brick fragments. VOC Reading: 78 ppm -FILL-	5	5	--	--	20	70	N	L	N	L
15					15.0												
20																	

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water
Groundwater Not Encountered					

Sample Identification	
O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon
G	Geoprobe

Well Diagram: Riser Pipe, Screen, Filter Sand, Cuttings, Grout, Concrete, Bentonite Seal

Summary	
Overburden (lin. ft.)	61.5
Rock Cored (lin. ft.)	None
Samples	7S
Boring No.	**PD-34**

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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HALEY & ALDRICH

TEST BORING REPORT

Boring No. PD-34
File No. 27285-001
Sheet No. 2 of 3

Depth (ft.)	SPT*	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20	18 38 21	S2 18 in.	20.0 21.5			ML	Very stiff, brown SILT with clay, damp grades to silt with fine sand. VOC Reading: 74 ppm.	--	--	--	--	--	100	N	L	N	L
					23.0												
25	25 31 33	S3 17 in.	25.0 26.5			CL	Very stiff, dark brown sandy LEAN CLAY, with few pieces of gravel, damp and with specks of black organic material. VOC Reading: 10 ppm	--	2	--	--	10	88	N	H	M	M
30	29 36 32	S4 18 in.	30.0 31.5				Same. VOC Reading: 28 ppm.										
35																	
					37.0												
40	21 31 38	S5 14 in.	40.0 41.5			CL	Very stiff, brown fat CLAY with white veining and specks of black organic material, silty sand partings, and interlayered with brown clayey silt. VOC Reading: ND	--	--	--	--	--	100	N	H	H	H
45																	
					47.0												

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. PD-34

USCS_TBIA LEFile USCSTCIA.GDT G:\PROJECTS\27285\001\LOGS.GPJ Jun 21, 01

HALEY & ALDRICH

TEST BORING REPORT

Boring No. PD-34
File No. 27285-001
Sheet No. 3 of 3

Depth (ft.)	SPT*	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
50	40 44 40	S6 18 in.	50.0 51.5			SP-SM	Very dense, gray fine SAND with silt, iron-staining, no odor. VOC Reading: ND.	--	--	--	--	90	10	N	L	N	N
55					57.0												
60	27 32 37	S7 18 in.	60.0 61.5			CH	Very stiff gray fat CLAY, with iron-staining, plastic. VOC Reading: ND	--	--	--	--	--	100	N	H	H	H
					61.5		Bottom of Test Boring at 61.5 ft.										

Grouted borehole through augers with WYOBEN Grout-Well bentonite slurry.

Soil headspace readings taken with a photovac 2020 organic vapor meter calibrated to isobutylene. Soil samples submitted to ___ for VOC analysis.

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil Identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. PD-34

USCS_TB3A LibFile USCSTC3A.GDT G:\PROJECTS\27285\001\LOGS.GPJ Jun 21, 01

HALEY & ALDRICH

TEST BORING REPORT

Boring No. PD-35

Project Former Boeing C-6 Facility Torrance, CA
Client Boeing Realty Corporation
Contractor West Hazmat Drilling

File No. 27285-001
Sheet No. 1 of 3
Start June 7, 2001
Finish June 7, 2001
Driller T. Barrow
H&A Rep. J. Talpey
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	Auger	SS	--	Rig Make & Model: CME-95
Inside Diameter (in.)	4-1/4	2	--	Bit Type: Cutting Head
Hammer Weight (lb.)	--	140	-	Drill Mud: None
Hammer Fall (in.)	--	30	-	Casing: HSA
				Hoist/Hammer: Winch Safety Hammer

Depth (ft.)	SPT*	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0							Advanced augers to 10.0 ft. without sampling.										
5																	
10	14 18 23	S1 15 in.	10.0 11.5			CH	Stiff brown organic-rich sandy fat CLAY interlayered with brick-red SILT. VOC Reading: 49 ppm.	--	--	.5	5	5	85	N	M	H	H
15					16.0												
20																	

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water
	Groundwater Not Encountered				

Sample Identification

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (lin. ft.) 61.5
Rock Cored (lin. ft.) None
Samples 7S

Boring No. PD-35

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

*SPT = Sampler blows per 6 in **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

USCS_TB3A LibFile USCSTC3A.GDT G:\PROJECTS\27285\001\LOGS.GPJ Jun 21, 01

HALEY & ALDRICH

TEST BORING REPORT

Boring No. PD-35
File No. 27285-001
Sheet No. 2 of 3

Depth (ft.)	SPT*	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20	17 23 28	S2 18 in.	20.0 21.5			ML	Dense red-brown SILT, interlayered with brown lean CLAY, damp. VOC Reading: 52 ppm.	--	--	--	--	--	100	N	L	N	L
					24.0												
25	21 26 33	S3 18 in.	25.0 26.5			ML-CL	Dense brown SILT, wet, interlayered with hard, partly cemented clayey silt seams. VOC Reading: 262 ppm.	--	--	--	--	--	100	N	M	M	M
30	21 26 33	S4 18 in.	30.0 31.5			MH	Brown elastic SILT with clay, damp, low plasticity. VOC Reading: 75 ppm.	--	--	--	5	5	90	N	M	L	L
35																	
40	22 33 36	S5 18 in.	40.0 41.5			MH	Same, and with mica particles. VOC Reading: 59 ppm.	--	--	--	--	--	100	N	M	L	M
45																	
					49.0												

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. PD-35

USCS_TB3A LibFile USCSTC3A.GDT G:\PROJECTS\27285\201\LOGS.GPJ Jun 21, 01

HALEY & ALDRICH

TEST BORING REPORT

Boring No. PD-35
File No. 27285-001
Sheet No. 3 of 3

Depth (ft.)	SPT*	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
50	30 36 39	S6 18 in.	50.0 51.5			SM	Very dense gray and light _____, fine sandy SILT, partly cemented, no dry strengths. VOC Reading: 10 ppm.	--	--	--	--	10	80	N	L	N	N
55																	
60	27 32 40	S7 18 in.	60.0 61.5			SP	Very dense brown poorly graded SAND with shell fragments, iron-staining, fine-grained, few pebbles. VOC Reading: 28 ppm.	--	--	--	5	90	5	N	L	N	N
					61.5		Bottom of Test Boring at 61.5 ft.										

Grouted borehole through augers with WYOBEN Grout-Well bentonite slurry.

Soil headspace readings taken with a photovac 2020 organic vapor meter calibrated to isobutylene. Soil samples submitted to lab for VOC analysis.

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. PD-35

USCS_TB3A L&F&A USCSTG3A.GDT G:\PROJECTS\27285\001\LOGS.GPJ Jan 21, 01

HALEY & ALDRICH

TEST BORING REPORT

Boring No. PD-36

Project Former Boeing C-6 Facility Torrance, CA
Client Boeing Realty Corporation
Contractor West Hazmat Drilling

File No. 27285-001
Sheet No. 1 of 3
Start June 7, 2001
Finish June 7, 2001
Driller T. Barrow
H&A Rep. J. Talpey
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	Auger	SS	--	Rig Make & Model: CME-95
Inside Diameter (in.)	4-1/4	2	--	Bit Type: Cutting Head Drill Mud: None
Hammer Weight (lb.)	--	140	-	Casing: HSA
Hammer Fall (in.)	--	30	-	Hoist/Hammer: Winch Safety Hammer

Depth (ft.)	SPT*	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0							Advanced augers to 10.0 ft. without sampling.										
5																	
10	15 17 22	S1 18 in.	10.0 11.5			CH	Stiff brown silty FAT CLAY, with many specks of black organic material, resembles organic soil/topsoil. VOC Reading: 450 ppm.	--	--	--	--	--	100	N	H	H	H
15																	
20																	

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water
Groundwater Not Encountered					

Sample Identification

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (lin. ft.) 61.5
Rock Cored (lin. ft.) None
Samples 7S

Boring No. PD-36

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil Identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

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HALEY & ALDRICH

TEST BORING REPORT

Boring No. PD-36
File No. 27285-001
Sheet No. 2 of 3

Depth (ft.)	SPT*	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20	12 13 18	S2 18 in.	20.0 21.5		20.0	ML	Medium dense brown SILT, crumbly, little or no dry strength. VOC Reading: 38 ppm.	--	--	--	--	--	100	N	L	N	N
					23.0												
25	19 25 30	S3 18 in.	25.0 26.5			CL-ML	Very stiff brown lean CLAY with few pieces of gravel, interlayered with brown SILT. VOC Reading: ND.	--	1	--	--	--	99	N	M	M	M
30	22 22 32	S4 18 in.	30.0 31.5			CL	Very stiff brown lean CLAY, with white veining, medium plastic and with few coarse gravel. VOC Reading: ND.	--	--	--	--	--	98	N	H	M	H
35																	
					36.0												
40	27 33 40	S5 18 in.	40.0 41.5			CL	Stiff gray lean CLAY with iron-staining. VOC Reading: 14 ppm.	--	--	--	--	--	100	N	H	M	H
45																	
					47.0												

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. PD-36

USCS_TB3A LbFile USCSTC3A.GDT G:\PROJECTS\27285\001LOGS.GPJ Jun 22, 01

HALEY & ALDRICH

TEST BORING REPORT

Boring No. PD-36
File No. 27285-001
Sheet No. 3 of 3

Depth (ft.)	SPT*	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
50	18 23 36	S6 18 in.	50.0 51.5			SP-SM	Dense brown fine SAND with silt, damp, no dry strength. VOC Reading: 4 ppm.	--	--	--	--	75	25	N	L	N	N
55																	
60	19 24 32	S7 18 in.	60.0 61.5			SM	Dense brown silty SAND with gravel and shell fragments, interlayered with gray fay CLAY, moist, plastic. VOC Reading: ND.	3	--	--	--	77	20	N	L	N	N
					61.5		Bottom of Test Boring at 61.5 ft.										

Grouted borehole through augers with WYOBEN Grout-Well bentonite slurry.

Soil headspace readings taken with a photovac 2020 organic vapor meter calibrated to isobutylene. Soil samples submitted to lab for VOC analysis.

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. PD-36

USCS_TB3A LibFile USCSTC3A.GDT G:\PROJECTS\27285\001\LOGS.GPJ Jun 22, 01

HALEY & ALDRICH

TEST BORING REPORT

Boring No. PD-37

Project Former Boeing C-6 Facility Torrance, CA
Client Boeing Realty Corporation
Contractor West Hazmat Drilling

File No. 27285-001
Sheet No. 1 of 3
Start June 7, 2001
Finish June 7, 2001
Driller T. Barrow
H&A Rep. J. Talpey
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	Auger	SS	--	Rig Make & Model: CME-95
Inside Diameter (in.)	4-1/4	2	--	Bit Type: Cutting Head
Hammer Weight (lb.)	--	140	-	Drill Mud: None
Hammer Fall (in.)	--	30	-	Casing: HSA
				Hoist/Hammer: Winch Safety Hammer

Depth (ft.)	SPT*	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0							Advanced augers to 10.0 ft. without sampling.										
5																	
10	8 11 15	S1 17 in.	10.0 11.5			CL	Stiff brown sandy CLAY, moist. VOC Reading: 64 ppm.	--	--	--	5	10	85	N	M	M	M
15					15.0												
20																	

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water
	Groundwater Not Encountered				

Sample Identification

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (lin. ft.) 61.5
Rock Cored (lin. ft.) None
Samples 7S

Boring No. PD-37

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

USCS_TB3A LibFile USCSTC3A.GDT G:\PROJECTS\27285\001LOGS.GPJ Jun 22, 01

HALEY & ALDRICH

TEST BORING REPORT

Boring No. PD-37
File No. 27285-001
Sheet No. 2 of 3

Depth (ft.)	SPT*	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20	15 23 30	S2 16 in.	20.0 21.5			ML	Dense light brown SILT, damp. VOC Reading: 2000 ppm.	--	--	--	--	--	100	N	M	L	L
25	22 29 32	S3 18 in.	25.0 26.5			ML	Very dense red-brown SILT, damp. VOC Reading: 2000 ppm.	--	--	--	--	--	100	N	M	L	L
					29.0												
30	19 26 31	S4 18 in.	30.0 31.5			CH	Very stiff dark brown CLAY. VOC Reading: 1037 ppm.	--	--	--	--	--	100	N	M	H	H
35																	
					36.0												
40	27 33 39	S5 18 in.	40.0 41.5			CH	Very stiff gray CLAY, wet, plastic. VOC Reading: 2000 ppm.	--	--	--	--	--	100	N	M	H	H
45																	

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. PD-37

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HALEY & ALDRICH

TEST BORING REPORT

Boring No. PD-37
File No. 27285-001
Sheet No. 3 of 3

Depth (ft.)	SPT*	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
50	26 34 44	S6 18 in.	50.0 51.5			CH	Very stiff gray fat CLAY, with brown silty sand seams, apparent sand-filled vertical cracks, pockets of white crusty material. VOC Reading: 700 ppm.	--	--	--	--	--	100	N	H	H	H
55					57.0												
60	19 28 33	S7 14 in.	60.0 61.5			SP	Dense brown SAND, damp. VOC Reading: 2000 ppm.	--	--	--	25	75	--	N	L	N	N
					61.5		Bottom of Test Boring at 61.5 ft.										

Grouted borehole through augers with WYOBEN Grout-Well bentonite slurry.

Soil headspace readings taken with a photovac 2020 organic vapor meter calibrated to isobutylene. Soil samples submitted to lab for VOC analysis.

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. PD-37

USCS_TB3A L&F2e USCSTC3A.GDT G:\PROJECTS\27285001\LOGS.GPJ Jan 22, 01

HALEY & ALDRICH

TEST BORING REPORT

Boring No. PD-38

Project Former Boeing C-6 Facility Torrance, CA
Client Boeing Realty Corporation
Contractor West Hazmat Drilling

File No. 27285-001
Sheet No. 1 of 3
Start June 7, 2001
Finish June 7, 2001
Driller T. Barrow
H&A Rep. J. Talpey
Elevation
Datum
Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	Auger	SS	--	Rig Make & Model: CME-95
Inside Diameter (in.)	4-1/4	2	--	Bit Type: Cutting Head
Hammer Weight (lb.)	--	140	-	Drill Mud: None
Hammer Fall (in.)	--	30	-	Casing: HSA
				Hoist/Hammer: Winch Safety Hammer

Depth (ft.)	SPT*	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0							Augered to 10.0 ft. without sampling.										
5																	
10	10 14 18	S1 18 in.	10.0 11.5			CH	Stiff gray CLAY with iron-staining. VOC Reading: >2000 ppm	--	--	--	--	--	100	N	M	H	H
15					15.0												
20																	

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth (ft.) to: Bottom of Casing	Bottom of Hole	Water
	Groundwater Not Encountered				

Sample Identification

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Overburden (lin. ft.) 61.5
Rock Cored (lin. ft.) None
Samples 7S

Boring No. PD-38

Field Tests: Dilatancy: R-Rapid, S-Slow, N-None Plasticity: N-Nonplastic, L-Low, M-Medium, H-High
Toughness: L-Low, M-Medium, H-High Dry Strength: N-None, L-Low, M-Medium, H-High, V-Very High

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size (in millimeters).

Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

USCS_TB3A LibFile USCSTC3A.GDT G:\PROJECTS\27285\001LOGS.GPJ Jun 25, 01

HALEY & ALDRICH

TEST BORING REPORT

Boring No. PD-38
File No. 27285-001
Sheet No. 2 of 3

Depth (ft.)	SPT*	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
20	18 21 25	S2 18 in.	20.0 21.5			ML	Dense brown SILT, moist, semi-cohesive. VOC Reading: >2000 ppm.	–	–	–	–	–	100	N	M	N	L
25	16 20 22	S3 12 in.	25.0 26.5			ML	Medium dense gray SILT with sand, iron-stained, interlayered with brown sandy SILT. VOC Reading: 1143 ppm.	–	–	–	–	–	100	N	H	M	M
30	20 24 30	S4 18 in.	30.0 31.5			SP	Dense yellow-brown poorly-graded SAND, very fine grained, fluffy texture, resembles loess. VOC Reading: 942 ppm.	–	–	–	–	100	–	N	L	N	N
35					36.0												
40	19 22 32	S5 18 in.	40.0 41.5			SW-SM	Dense brown fine SAND with silt, containing layers of gray lean clay which are hard and damp. VOC Reading: >2000 ppm.	–	–	–	–	80	20	N	L	N	N
								–	–	–	–	–	100	N	H	M	H
45					47.0												

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.
NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. PD-38

USCS_TBIA LaPa USCSTCIA.GDT G:\PROJECTS\27285\001\LOGS.GPJ Jan 25, 01

HALEY & ALDRICH

TEST BORING REPORT

Boring No. PD-38
File No. 27285-001
Sheet No. 3 of 3

Depth (ft.)	SPT*	Sample No. & Rec. (in.)	Sample Depth (ft.)	Well Diagram	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size**, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
50	20 25 31	S6 14 in.	50.0 51.5			SP	Dense gray poorly-graded SAND, fine-grained, with gravelly seams containing crystalline calcite, cemented.	--	--	--	--	95	5	N	L	N	N
							VOC Reading: >2000 ppm. -BEACH SAND-	15	15	10	10	30	20	N	H	N	H
55																	
					57.0												
60	26 30 32	S7 15 in.	60.0 61.5			SM	Dense gray-brown silty SAND, wet, fine-grained, with mica particles. VOC Reading: 1515 ppm.	--	--	--	--	90	10	N	L	N	N
					61.5		Bottom of Test Boring at 61.5 ft.										

Grouted borehole through augers with WYOBEN Grout-Well bentonite slurry.

Soil headspace readings taken with a photovac 2020 organic vapor meter calibrated to isobutylene. Soil samples submitted to lab for VOC analysis.

*SPT = Sampler blows per 6 in. **Maximum particle size (mm) is determined by direct observation within the limitations of sampler size.

NOTE: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Boring No. PD-38

USCS_TB3A LibFile USCSTC3A.GDT G:\PROJECTS\27285\001\LOGS.GPJ Jun 25, 01

HALEY & ALDRICH

TEST BORING REPORT

BORING NO. **PD-39**

PROJECT	Boeing Realty Corp. Former C-6 facility	H&A FILE NO.	27285-005
LOCATION		PROJECT MGR.	Scott Zachary
CLIENT		FIELD REP.	H. Hernandez
CONTRACTOR		DATE STARTED	6/24/2001
DRILLER	West Hazmat	DATE FINISHED	6/24/2001

Elevation	ft.	Datum		Boring Location							
Item	Casing	Sampler	Core Barrel	Rig Make & Model		CME-75		Hammer Type	Drilling Mud	Casing Advance	
Type	HAS	Sumil-probe		☑ Truck	☐ Tripod	☐ Cat-Head		☐ Safety	☐ Bentonite	Type	Method	Depth
Inside Diameter (in.)	4.25			☐ ATV	☐ Geoprobe	☐ Winch		☐ Doughnut	☐ Polymer			
Hammer Weight (lb.)				☐ Track	☐ Air Track	☐ Roller Bit		☐ Automatic	☐ None			
Hammer Fall (in.)				☐ Skid	☐	☑ Cutting Head		Drilling Notes:			

Depth (ft.)	Sampler Blows per 6 in.	Sample No. & Recovery (in.)	Sumil-probe Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0																	
10	6 7 10	1.5	PD-29-10	1215	0	SM	Silty Sand (SM) yellow, brown moist medium dense loose well graded, mica	5	5	10	10	50	20	R	L	N	L
20	10 20 21	1.5	10-34-27	1223	0	CL	Lean Clay (CL) brown hard, low plasticity, cobbles	10	0	5	5	10	60		H	L	H
25	12 14 15	1.5	PD-39-25	1228	0												
30	10 20 23	1.5	PD-39-30	1234	0	SM	Silty Sand (SM) fine brown to light brown, dense					70	30				
40	10 26 30	1.5	PD-24-40	1240	0	SM	Silty Sand (SM) Yellow brown, dense, very loose, fine to very fine sand, mica					70	30	R	L	N	L
50	10 12 15	1.5	10-39-50	1256	0.9	SP	Poorly Graded Sand (SP) yellow, brown, medium, dense, fine to very fine sand mica					100					
60	33 30	1.5	PD-39-60	1360	0	SP	Poorly Graded Sand (SP) yellow, brown, moist, dense, fine to medium fine mica				20	80					

Water Level Data					
Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water
7/11/2001					approx 67'

Sample ID	
O	Open End Rod
Y	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram	
	Riser Pipe
	Screen
	Filter Sand
	Cuttings
	Grout
	Concrete
	Bentonite Seal

Summary	
Overburden (Linear ft.)	
Rock Cored (Linear ft.)	
Number of Samples	
BORING NO.	DDS-1-14

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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Form #2000

HALEY & ALDRICH

TEST BORING REPORT

BORING NO. **PD-40**

Page 1 of 1

PROJECT	Boeing Realty Corp. Former C-6 facility	H&A FILE NO.	27285-005
LOCATION		PROJECT MGR.	Scott Zachary
CLIENT		FIELD REP.	H. Hernandez
CONTRACTOR		DATE STARTED	7/5/2001
DRILLER	West Hazmat	DATE FINISHED	7/2/2001

Elevation ft. Datum

Boring Location

Item	Casing	Sampler	Core Barrel	Rig Make & Model			CME-75	Hammer Type	Drilling Mud	Casing Advance
Type	HAS	Sumii-probe		☑ Truck	☐ Tripod	☐ Cat-Head		☐ Safety	☐ Bentonite	Type Method Depth
Inside Diameter (in.)	4.25			☐ ATV	☐ Geoprobe	☐ Winch		☐ Doughnut	☐ Polymer	
Hammer Weight (lb.)				☐ Track	☐ Air Track	☐ Roller Bit		☐ Automatic	☐ None	
Hammer Fall (in.)				☐ Skid		☑ Cutting Head		Drilling Notes:		

Depth (ft.)	Sampler Blows per 6 in.	Sample No. & Recovery (in.)	Sumii-probe Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (Sensity/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	% Fines	Field Test Dilatancy	Field Test Toughness	Field Test Plasticity	Field Test Strength
0																	
	6																
10	7	1.5	PD-10-107	750	0	SM	Silty Sand (SM) Light Brown, Moist, Medium dense				10	10	40	R	N	N	N
	4																
	10																
20	17	NR					No Recovery										
	22																
	26	NR															
	50																
	13																
	12	1.5	PD-40-15	812	0	SM	Silty Sand (SM) yellow brown, moist, dense					7					
	16																
	16																
30	20	1.5	PD-40-10	820	0	SM	Same as above										
	25																
40	23	1.5	PD-10-40	828	0	SM	Silty Sand (SM) light brown, moist, dense, very very fine to fine sand, mica					70	30				
	20																
	14																
50	15	1.5	PD-40-50	838	0	SP	Poorly graded sand (SP) yellow brown, moist, dense, very fine to fine sand, poorly graded					110					
	20																
	11						Same as above										
60	25	1.5	PD-10-60	846	0	SP	Boring terminated at 60 feet, no groundwater encountered										
	30						Boring was backfilled with bentonite grout										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to: Bottom of Casing	Bottom of Hole	Water
7/11/2001					approx 68'

Sample ID

O Open End Rod
T Thin Wall Tube
U Undisturbed Sample
S Split Spoon Sample
G Geoprobe

Well Diagram

Riser Pipe
Screen
Filter Sand
Cuttings
Grout
Concrete
Bentonite Seal

Summary

Overburden (Linear ft.)
Rock Cored (Linear ft.)
Number of Samples

BORING NO. DDS-1-11

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

Form #3000

Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Building 36		Boring Name: 2BB-36-9
DRILLING COMPANY: Water D	DRILLER: Brian	Project Name: Boeing C-6, Parcel C
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 8	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered		ELEVATION (ft. MSL): . / TOTAL DEPTH (ft.): 60
LOGGED BY: JK		DATE STARTED: 5-11-01 / DATE COMPLETED: 5-11-01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
							CL	10YR 3/3	Silty CLAY: dark brown, slightly moist, stiff
					5				
					10		ML	10YR 4/4	Clayey SILT: dark yellowish brown, slightly moist, hard
					15				
					20			10YR 5/4	yellowish brown, slightly moist, very stiff
					25				
					30			10YR 4/4	dark yellowish brown, some fine sand, stiff
					35				
					40				

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Boring Log

Kennedy/Jenks Consultants

Boring Name 2BB-36-9
Project Name Boeing C-6, Parcel C
Project Number 004032.01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		ML		Clayey Silt: continued
					45				
							SM	10YR 6/4	Silty SAND: light yellowish brown, fine, slightly moist, medium dense, slight solvent odor, some rust
					50				
					55				
							ML	2.5Y 4/4	Sandy SILT: olive brown, fine sand, moist, stiff, slight solvent odor, some rust
					60				Total Depth = 60'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: S24	Boring Name: S24-3
DRILLING COMPANY: Water D / DRILLER: Rod	Project Name: Boeing C-6, Parcel C
DRILLING METHOD (S): Hollow Stem Auger / DRILL BIT (S) SIZE (in.): 8	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): - / TOTAL DEPTH (ft.): 61
LOGGED BY: M. Balderman	DATE STARTED: 5-11-01 / DATE COMPLETED: 5-11-01

Depth (feet)	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
			Fill - mixed soils at surface
	ML	5Y 3/2	Clayey SILT: dark olive gray, minor fine sand, damp, medium stiff, petroleum odor, greenish stain
5			
			Auger plug wet with hydrocarbon, hydrocarbon on outside sampler also
10	ML	10YR 4/2	Sandy SILT: dark grayish brown, 40 % fine sand, moist, stiff, very strong petroleum odor
15			
20			Sandy SILT with Clay: 30 % fine sand, damp, medium stiff, hydrocarbon odor
25	ML	10YR 4/2 10YR 2/2	Sandy SILT: dark grayish brown to very dark brown, 40 % fine sand, moist, medium stiff, hydrocarbon odor
30	SM/SP	10YR 6/6	SAND - Silty SAND: brownish yellow, 90 % fine sand, damp, dense
35			
40	SM	10YR 5/4	Silty SAND: yellowish brown, 70 % fine sand, damp, moist, very dense

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Boring Log

Kennedy/Jenks Consultants

Boring Name S24-3
Project Name Boeing C-6, Parcel C
Project Number 004032.01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	End Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SM		Silty SAND: continued
					45				
					50		ML	5Y 5/6 10YR 6/2	Clayey SILT: olive to light brownish gray, minor fine sand, thin silty sand layers, damp, moist, stiff, mottled color
					55				
					60				
									Total Depth = 61'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: S24		Boring Name: S24-4
DRILLING COMPANY: Water D	DRILLER: Rod	Project Name: Boeing C-6, Parcel C
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 8	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered		ELEVATION (ft. MSL): - / TOTAL DEPTH (ft.): 63.5
LOGGED BY: M. Balderman		DATE STARTED: 5-10-01 / DATE COMPLETED: 5-10-01

Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
5				
10		ML	10YR 5/4	Clayey SILT: yellowish brown, minor fine sand, trace fine mica, damp, medium stiff
15				
20		ML	10YR 5/4	Clayey SILT: yellowish brown, minor fine sand, mottled with CaC03, damp, hard
25		SM	10YR 5/4 10YR 6/2	Silty SAND: yellowish brown to light brownish gray, 65 % fine sand, damp, very dense, brown mottled with gray
30		SM	10YR 6/6	Silty SAND: brownish yellow, 70 % fine sand, damp, very dense
35				
40				Silty SAND: brownish brown, 70 % fine sand, damp, very dense, with 1" inter bed clayey silt

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Boring Log

Kennedy/Jenks Consultants

Boring Name: S24-4
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SM		Silty SAND: continued
					45				
		☒			50		SM	10YR 5/4	Silty SAND: yellowish brown, 65 % fine sand, trace fine mica, damp, very dense
					55				
					60				
		☒					ML	10YR 5/4	Clayey SILT: yellowish brown, minor fine sand, damp, hard
					65				Total Depth = 63.5'
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: S24		Boring Name: S24-5
DRILLING COMPANY: Water D	DRILLER: Rod	Project Name: Boeing C-6, Parcel C
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 8	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered		ELEVATION (ft. MSL): - / TOTAL DEPTH (ft.): 61
LOGGED BY: M. Balderman		DATE STARTED: 5-10-01 / DATE COMPLETED: 5-10-01

Depth (feet)	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
0–9			Fill - mixed soils, brown silty clay and clayey silt with sand and gravel
9–20	ML/SM	10YR 4/2	Sandy SILT and Silty SAND: dark grayish brown, 50 % fine sand, trace fine mica, damp, medium dense
20–25	ML	10YR 4/2	Clayey SILT: dark grayish brown, minor fine sand, mottled with CaC03, damp, medium stiff
25–39	SM	10YR 5/4 10YR 6/2	Silty SAND: yellowish brown to light brownish gray, 60 % sand, trace fine mica, damp, dense, brown mottled with gray
39–40	SP	10YR 6/2	SAND: light brownish gray, minor silt, trace fine mica, damp, very dense cemented layer of shell fragments

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Boring Log

Kennedy/Jenks Consultants

Boring Name: S24-5
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SP		SAND: continued
					45				
					50		ML	10YR 6/2 10YR 5/4	Clayey SILT: light brownish gray to yellowish brown, minor fine sand, damp, stiff, mottled brown/gray
					55				
					60		SM	10YR 4/2	Silty SAND: dark grayish brown, 60 % sand, trace fine mica, moist, very dense
									Total Depth = 61'
					65				
					70				
					75				
					80				
					85				

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: S24	Boring Name: S24-6
DRILLING COMPANY: Water D	DRILLER: Rod
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 8
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): .
	TOTAL DEPTH (ft.): 61
LOGGED BY: M. Balderman	DATE STARTED: 5-10-01
	DATE COMPLETED: 5-10-01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
					5		ML	10YR 5/4	Sandy Clayey SILT: yellowish brown, 30 % fine sand, damp, medium stiff
					10				
					15				
					20		CL	10YR 4/2	Silty CLAY: dark grayish brown, minor fine sand, damp, stiff
					25		SM	10YR 5/4 10YR 6/2	Silty SAND: yellowish brown to light brownish gray, 65 % sand, trace fine mica, damp, dense, mottled gray and brown
					30				
					35				
					40		SM	10YR 5/4	Silty SAND: yellowish brown, 80 % sand, trace fine mica, damp, very dense

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Boring Log

Kennedy/Jenks Consultants

Boring Name S24-6
Project Name Boeing C-6, Parcel C
Project Number 004032.01

Depth (feet)	USCS Log	Munsell Color	Description
40	SM		Silty SAND: continued
45			
50	SM	10YR 5/4	Silty SAND: yellowish brown, 65% fine sand, trace fine mica, damp, very dense
55			
60	CL	10YR 5/4	Silty CLAY: yellowish brown, minor fine sand, damp, hard, thin inter beds and fine silty sand, chemical odor in soil
			Total Depth = 61'
65			
70			
75			
80			
85			

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Boring Log

Kennedy/Jenks Consultants

BORING LOCATION: Feature Number: S24	Boring Name: S24-7
DRILLING COMPANY: Water D	DRILLER: Rod
DRILLING METHOD (S): Hollow Stem Auger	DRILL BIT (S) SIZE (in.): 8
	Project Name: Boeing C-6, Parcel C
	Project Number: 004032.01
DEPTH TO WATER (ft.): Not Encountered	ELEVATION (ft. MSL): -
	TOTAL DEPTH (ft.): 60
LOGGED BY: M. Balderman	DATE STARTED: 5-22-01
	DATE COMPLETED: 5-22-01

SAMPLES: Driven	Recovered	Collected	Blows per 6"	Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	SOIL DESCRIPTION AND DRILLING REMARKS
					5				
		☒			10		ML	2.5Y 5/4	Clayey SILT: light olive brown, damp, medium stiff
					15				
		☒			20				
		☒			25				
		☒			30		SM	2.5Y 6/8	Silty SAND: olive yellow, very fine, damp, loose
					35				
		☒			40				

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Boring Log

Kennedy/Jenks Consultants

Boring Name: S24-7
Project Name: Boeing C-6, Parcel C
Project Number: 004032.01

Samples: Driven	Samples: Recovered	Samples: Collected	Samples: Blows per 6"	Samples: Head Space Reading (ppm)	Depth (feet)	Graphic Log	USCS Log	Munsell Color	
					40		SM		Silty SAND: continued
					45				
					50		SM	2.5Y 6/8	Silty SAND: olive yellow, damp, loose
					55				
					60				Total Depth = 60'
					65				
					70				
					75				
					80				
					85				

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