

NOTATIONS USED ON BORING LOGS, (Cont.)**Drilling, Sampling, & Groundwater Level Symbols**

AR	- Auger Refusal	RB	- Rotary Rock Bit
AS	- Auger Sample	SR	- Split-Barrel Refusal
BS	- Bag or Bulk Sample	SS	- Standard 1 3/8 Inches Dia. Split-Barrel Sample
DB	- Drag Bit	TOB	- Termination of Boring
DCI	- Dry Cave-In	3T	- Thin-Walled Tube Sample, 3 Inches Diameter
FA	- Flight Auger	TR	- Thin-Walled Tube Refusal
LS	- Large 2 1/2 Inches Dia. Split-Barrel Sample	WB	- Wash Bore
NC	- NX Conventional Rock Core	WCI	- Wet Cave-In
NW	- NX Wireline Rock Core	WS	- Wash Sample

Description Abbreviations

App	- Apparent	Med	- Medium
Bk	- Black	Mot	- Mottled
Bld	- Boulder(s)	Org	- Organic(s)
Br	- Brown, Brownish	Oxi	- Oxidation, Oxidized
Calc	- Calcareous	Pkt	- Pocket(s)
Cbl	- Cobble(s)	Pt	- Peat, Peaty
Cl	- Clay, Clayey	Rd	- Red, Reddish
Co	- Coarse	Rt	- Root(s)
Conc	- Concretion(s)	Sa	- Sand, Sandy
Dk	- Dark	Sh	- Shale, Shaley
Fi	- Fine	Si	- Silt, Silty
Frac	- Fractured	Slk	- Slickensided, Slickensides
Frag	- Fragment(s)	Sm	- Seam(s)
Gr	- Gray, Grayish	Sp	- Spot(s)
Grv	- Gravel, Gravelly	Stn	- Stain(s)
Inb	- Interbedded	Stk	- Streak(s)
Jt	- Joint(s)	Tr	- Trace
Lig	- Lignite	v	- Very
Ls	- Limestone	w/	- With
Lt	- Light	Yel	- Yellow, Yellowish

Unified Soil Classification System**Coarse-Grained Soils**

- GW** - Well-graded gravels, gravel-sand mixtures, little or no fines
- GP** - Poorly graded gravels, gravel-sand mixtures, little or no fines
- GM** - Silty gravels, gravel-sand-silt mixtures
- GC** - Clayey gravels, gravel-sand-clay mixtures
- SW** - Well-graded sands, gravelly sands, little or no fines
- SP** - Poorly graded sands, gravelly sands, little or no fines
- SM** - Silty sands, sand-silt mixtures
- SC** - Clayey sands, sand-clay mixtures

Fine-Grained Soils

- ML** - Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, or clayey silts with slight plasticity
- CL** - Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
- OL** - Organic silts and organic silty clays of low plasticity
- MH** - Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
- CH** - Inorganic clays of high plasticity, fat clays
- OH** - Organic clays of medium to high plasticity, organic silts
- PT** - Peat and other highly organic soils

B-5: URS Corporation: 2004 Boring Logs for New
East Ash Pond Design

LOG of BORING No. B-5-04-1

DATE 6/7/04 SURFACE ELEVATION, FT 436.0 DATUM NGVD LOCATION See Figure 1

DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
0				Grass and organic soil	435.8									Boring advanced using 4.25" I.D. Hollow stem augers
	3	89		Loose, moist, dark gray, fly ash FILL with gray silty clay	0.3									
	3													
	5													
	4	100		Becomes moist to wet										
	4													
5	3													
	WH	100		Becomes very loose and wet	▽									
	WH													
	WH													
	P	17												Begin Mud Rotary drilling
10														
	WH	50		Becomes very soft to very loose										
	WH													
15	WH													
	WH													
	WH													
	WH	100		Medium stiff, wet, gray, low plastic sandy silty CLAY (CL-ML)	419.0									
	1				17.0		1.3			23				
20	2													

Completion Depth: 65.0 Ft. Water Depth: 6 ft., After ATD hrs.
 Project No.: 21561435.00000 _____ ft., After _____ hrs.
 Project Name: Dynegy Wood River _____ ft., After _____ hrs.
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones

B/1004 WCCXS 21561435 DYNEGY.GPJ



LOG of BORING No. B-5-04-1

DATE 6/7/04 SURFACE ELEVATION, FT 436.0 DATUM NGVD LOCATION See Figure 1

DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
25		P	100	Becomes soft to medium stiff, tan/gray, sand grades out	408.0		0.8							
30	WH WH 1		100	Medium stiff, wet, tan/gray, high plastic, Silty CLAY (CH)	28.0		1.8			36	79	25		
35		P	100				1.5							
40	5 6 7		100	Very soft, wet, gray, low plastic sandy CLAY (CL)	398.0		38.0							
				Medium dense, wet, gray, fine grained SAND (SP)	397.0		39.0							
45	11 16 13		83	Becomes medium grained						21				
				Medium dense, wet, gray, fine grained silty SAND (SP-SM)	389.0		47.0							
	6 12 13		83											

Losing mud in hole:
approximately 20 gallons

Completion Depth: 65.0 Ft. Water Depth: 6 ft., After ATD hrs.
 Project No.: 21561435.00000 _____ ft., After _____ hrs.
 Project Name: Dynegy Wood River _____ ft., After _____ hrs.
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones



LOG of BORING No. B-5-04-2

DATE 6/1/04 SURFACE ELEVATION, FT 436.0 DATUM NGVD LOCATION See Figure 1

DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
0				Medium dense, moist, dark gray, fly ash FILL										Boring advanced using 4.25" I.D. Hollow stem augers
3		67												
6		6												
6		6												
	P	100					2.0							
5														
	1	100			429.5		0.8							
	WH			Soft, moist, gray, low plastic clayey SILT to silty CLAY (CL-ML)	6.5									
	WH													
	1	0												
	WH													
10														Begin Mud Rotary drilling
	WH													
	1	0												
	WH													
	WH													
	1	67		Becomes very soft, plasticity increases			0.5							
15														
	WH													
	WH													
	P	100					0.5							
20										29				
										28				
										27	28	15	1.2	
										27				
										25				
					414.0									
				Medium stiff, wet, gray, low plastic, clayey sandy SILT (ML) with some soft seams	22.0									
	1	100					1.0							
	1													
	WH													

Completion Depth: 60.0 Ft. Water Depth: N/A ft., After ATD hrs.
 Project No.: 21561435.00000 _____ ft., After _____ hrs.
 Project Name: Dynegy Wood River _____ ft., After _____ hrs.
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones



LOG of BORING No. B-5-04-2

DATE 6/1/04 SURFACE ELEVATION, FT 436.0 DATUM NGVD LOCATION See Figure 1

DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
25														
30	WH WH WH		100	Becomes very soft Becomes medium stiff, plasticity increases, sand grades out			0.5 0.75							
31.5				Stiff, moist to wet, gray, high plastic, Silty CLAY (CH)	404.5 31.5									
35	P		100				1.3			56 39 43 56	84	19	1.3	
40	WH WH WH		100	Becomes moist, silt grades out			1.0							
45	WH WH WH		100				1.3							
	WH WH WH		100				1.3			55	74	26		

Completion Depth: 60.0 Ft. Water Depth: N/A ft., After ATD hrs.
 Project No.: 21561435.00000 _____ ft., After _____ hrs.
 Project Name: Dynegy Wood River _____ ft., After _____ hrs.
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones



LOG of BORING No. B-5-04-2

DATE 6/1/04 SURFACE ELEVATION, FT 436.0 DATUM NGVD LOCATION See Figure 1

DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
50														
55	WH WH 1		100	Becomes low plastic			1.8							
60	WOH 2 7		100	Medium dense, wet, gray, fine grained SAND (SP) Bottom of boring at 60'	376.2 59.8 376.0 60.0		1.8							Approximately 5 gallons of mud lost
65														
70														

Completion Depth: 60.0 Ft. Water Depth: N/A ft., After ATD hrs.
 Project No.: 21561435.00000 _____ ft., After _____ hrs.
 Project Name: Dynergy Wood River _____ ft., After _____ hrs.
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones



LOG of BORING No. B-5-04-3

DATE 6/4/04 SURFACE ELEVATION, FT 435.6 DATUM NGVD LOCATION See Figure 1

DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
0				Grass and organic soil	435.4									Boring advanced using 4.25" I.D. Hollow stem augers
	1		100	Very loose, dry to moist, gray, fly ash FILL	0.3									
	1													
	1													
	WH		44	Becomes moist to wet										
	WH													
5	1													
	WH		89	Becomes wet										
	1													
	1													
	1		100											
10														
	WH		100											
	2													
15	1			Stiff, moist, brown / gray, low plastic sandy silty CLAY (CL)	420.6									
					15.0									
	P		100											
20														
	P		100											
	WH		100	Becomes wet, brown/tan, low to medium plastic, sand grades out										
	1													
	2													

Begin Mud Rotary drilling

Completion Depth: 60.0 Ft. Water Depth: 6 ft., After ATD hrs.
 Project No.: 21561435.00000 _____ ft., After _____ hrs.
 Project Name: Dynegy Wood River _____ ft., After _____ hrs.
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones

8/10/04 WCCXS 21561435 DYNEGY.GPJ



LOG of BORING No. B-5-04-3

DATE 6/4/04 SURFACE ELEVATION, FT 435.6 DATUM NGVD LOCATION See Figure 1

DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
25		P	100				1.5							Environmental Sample Shelby Tube
30		P	100	Becomes medium stiff to stiff			1.0			52 33 35 38	40	16	1.3	
35	WH WH WH		100	Becomes stiff, low plastic			1.3							
40	4 6 5		94	Medium dense loose, wet, gray, fine grained silty SAND (SP / SM)	398.6 37.0					35				
45	10 15 17		89	Dense, wet, gray, medium grained SAND (SP)	392.6 43.0									
	6 9 17		67	Becomes medium to coarse grained										

Completion Depth: 60.0 Ft. Water Depth: 6 ft., After ATD hrs.
 Project No.: 21561435.00000 _____ ft., After _____ hrs.
 Project Name: Dynegy Wood River _____ ft., After _____ hrs.
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones



LOG of BORING No. B-5-04-3

DATE 6/4/04 SURFACE ELEVATION, FT 435.6 DATUM NGVD LOCATION See Figure 1

DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
50														
					383.6									
				Dense, wet, gray, well graded SAND (SW)	52.0									
	12		67											
	15													
55	17													
					378.6									
				Medium dense, wet, gray, fine grained SAND (SP)	57.0									
	9		67											
	11													
60	14			Bottom of boring at 60'	60.0									Approximately 25 gallons of mud lost
65														
70														

Completion Depth: 60.0 Ft. Water Depth: 6 ft., After ATD hrs.
 Project No.: 21561435.00000 _____ ft., After _____ hrs.
 Project Name: Dynegy Wood River _____ ft., After _____ hrs.
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones



LOG of BORING No. B-5-04-4

DATE 6/7/04 SURFACE ELEVATION, FT 446.1 DATUM NGVD LOCATION See Figure 1





DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
0				Medium dense, moist, gray, fly ash FILL										Boring advanced using 4.25" I.D. Hollow stem augers
3			100											
7														
6														
2			83	Becomes loose										
3														
5			6											
1			100	Becomes moist to wet										
1														
4														
3			100											
2														
10			1	Becomes wet										Begin Mud Rotary drilling
WH			100											
1														
15			WH											
P			75											
20										50				
										49				
										54				
										59				
WR			100	Becomes very soft, with some coal fragments									1.2	
													2.0	

Completion Depth: 65.0 Ft. Water Depth: 9.5 ft., After ATD hrs.
 Project No.: 21561435.00000 _____ ft., After _____ hrs.
 Project Name: Dynergy Wood River _____ ft., After _____ hrs.
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones



LOG of BORING No. B-5-04-4

DATE 6/7/04 SURFACE ELEVATION, FT 446.1 DATUM NGVD LOCATION See Figure 1

DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
25				Very stiff, wet, gray / tan, low plastic sandy silty CLAY (CL)	419.1									
					27.0		3.5	20	28	19				
30	1 4 5		100											
				Becomes moist, sand grades out										
35			0											
40				Loose to medium dense, wet, brown, fine grained silty SAND (SM)	401.1									
					45.0		2.0							
45				Becomes medium dense, fine to medium grained										
							72							
	5 4 12													

Completion Depth: 65.0 Ft. Water Depth: 9.5 ft., After ATD hrs.

Project No.: 21561435.00000 _____ ft., After _____ hrs.

Project Name: Dynegy Wood River _____ ft., After _____ hrs.

Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones



LOG of BORING No. B-5-04-4

DATE 6/7/04 SURFACE ELEVATION, FT 446.1 DATUM NGVD LOCATION See Figure 1

DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
50														
55	11 15 12		89											
60	6 6 5		56											
65	9 11 30			Dense, wet, fine to coarse grained silty SAND (SW) with some soft, gray silty clay seams	383.1 63.0 381.1									
				Bottom of boring at 65'	65.0									Approximately 10 gallons of mud lost
70														

Completion Depth: 65.0 Ft. Water Depth: 9.5 ft., After ATD hrs.
 Project No.: 21561435.00000 _____ ft., After _____ hrs.
 Project Name: Dynegy Wood River _____ ft., After _____ hrs.
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones



LOG of BORING No. B-5-04-5

DATE 6/8/04 SURFACE ELEVATION, FT 443.9 DATUM NGVD LOCATION See Figure 1

DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
0				Grass and organic soil	443.7									
				Loose, moist, gray, fly ash FILL	0.3									Boring advanced using 4.25" I.D. Hollow stem augers
2	2		100											
3	3													
3	3													
5	2		89											Rods are wet
5	2													
5	P		71							17				
										33				
10	1		94	Becomes medium dense										
	3													
	8													Begin Mud Rotary drilling
15	5		78	Becomes soft and wet										
	3													
	2													
20	1		94											
	2													
	3													
	1		100											
	WH													
	WH													

Completion Depth: 70.0 Ft. Water Depth: 5 ft., After ATD hrs.
 Project No.: 21561435.00000 _____ ft., After _____ hrs.
 Project Name: Dynegy Wood River _____ ft., After _____ hrs.
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones



LOG of BORING No. B-5-04-5

Sheet 2 of 3

DATE 6/8/04 SURFACE ELEVATION, FT 443.9 DATUM NGVD LOCATION See Figure 1

DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
25														
				Very stiff, moist, brown / gray, low plastic sandy silty CLAY (CL)	416.9	[Symbol]	2.5			27				
30	3 2 3		100		27.0	[Symbol]								
		P	0											
35					405.9									
	4		83	Loose, wet, brown, fine grained silty SAND (SM)	38.0	[Symbol]								
	3			Very stiff, moist, brown, low to medium plastic sandy silty CLAY (CL)	404.9	[Symbol]								
40	4			Loose, wet, brown, fine grained silty SAND (SM)	39.0	[Symbol]								
					404.2									
	8		56	Becomes medium dense, fine to medium grained	39.8	[Symbol]				26				
45	11 12													
				Medium dense, wet, fine to coarse grained SAND (SW)	396.9	[Symbol]								
	7		72		47.0	[Symbol]								
	9 14													

Completion Depth: 70.0 Ft. Water Depth: 5 ft., After ATD hrs.
 Project No.: 21561435.00000 _____ ft., After _____ hrs.
 Project Name: Dynegy Wood River _____ ft., After _____ hrs.
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones



LOG of BORING No. B-5-04-5

DATE 6/8/04 SURFACE ELEVATION, FT 443.9 DATUM NGVD LOCATION See Figure 1

DEPTH, ft	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
50														
				Medium dense, wet, gray, fine to medium grained silty SAND (SM)	391.9 52.0									
55	9 10 11	89												
				Becomes fine grained										
60	7 8 12	50												
				Becomes dense, fine to medium grained										
65	16 19 16	67												
				Dense, wet, fine to coarse grained silty SAND (SW)	376.9 67.0									
70	15 20 17	61												
				Bottom of boring at 70'	373.9 70.0									Approximately 70 gallons of mud lost

Completion Depth: 70.0 Ft. Water Depth: 5 ft., After ATD hrs.
 Project No.: 21561435.00000 _____ ft., After _____ hrs.
 Project Name: Dynegy Wood River _____ ft., After _____ hrs.
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones



LOG of BORING No. B-5-04-6

DATE 6/2/04 SURFACE ELEVATION, FT 441.6 DATUM NGVD LOCATION See Figure 1

DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES	
0				Loose, moist, gray, fly ash FILL										Boring advanced using 4.25" I.D. Hollow stem augers	
	1		100												
	5														
	5														
	1		100												
	7														
	6														
5															
	1		100	Becomes wet											
	1														
	WH														
	P		71							40					
10										38				Begin Mud Rotary drilling	
										41					
										37					
	WH		100												
	WH														
	1														
15															Rods are grinding
	1		89												
	WH														
	3														
20															
	1														
	2														
	3														
				Very stiff, moist, brown / tan, medium plastic silty CLAY (CL)	418.6	23.0	2.3			26	36	17			

Completion Depth: 60.0 Ft. Water Depth: _____ ft., After _____ hrs.
 Project No.: 21561435.00000 _____ ft., After _____ hrs.
 Project Name: Dynegy Wood River _____ ft., After _____ hrs.
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones

LOG of BORING No. B-5-04-6

DATE 6/2/04 SURFACE ELEVATION, FT 441.6 DATUM NGVD LOCATION See Figure 1

DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
25		P	92											
				Medium, wet, tan / gray, fine grained silty SAND (SM)	414.6 27.0									
	5 7 5		100											
30				Soft to medium stiff, wet, tan / brown, silty CLAY (CH)	409.6 32.0									
	WH WH 3		100				0.5			39	57	15		
35		P	67											
				Medium dense, wet, tan, fine grained silty SAND (SM)	401.6 40.0									
40														
	15 8 18		94											
45				Medium dense, tan wet, well graded SAND (SW)	394.6 47.0									
	11 6 11		67											

Completion Depth: 60.0 Ft. Water Depth: _____ ft., After _____ hrs.
 Project No.: 21561435.00000 _____ ft., After _____ hrs.
 Project Name: Dynergy Wood River _____ ft., After _____ hrs.
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones

8/10/04 WCCXS 21561435 DYNEGY.GPJ



LOG of BORING No. B-5-04-6

DATE 6/2/04 SURFACE ELEVATION, FT 441.6 DATUM NGVD LOCATION See Figure 1

DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
50														
55	8 7 7		56	Becomes gray										
				Medium dense, wet, gray, coarse grained SAND (SP)	384.6 57.0									
60	12 12 13		50	Bottom of boring at 60'	381.6 60.0									Approximately 50 to 60 gallons of mud lost
65														
70														

Completion Depth: 60.0 Ft. Water Depth: _____ ft., After _____ hrs.
 Project No.: 21561435.00000 _____ ft., After _____ hrs.
 Project Name: Dynegy Wood River _____ ft., After _____ hrs.
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones



LOG of BORING No. B-5-04-7

DATE 6/1/04 SURFACE ELEVATION, FT 439.9 DATUM NGVD LOCATION See Figure 1

DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PI, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
0				Soft, moist, dark gray, fly ash FILL										Boring advanced using 4.25" I.D. Hollow stem augers
	2		89											
	1													
	1													
	2		100	Becomes loose, black and gray bottom ash and fly ash FILL										
	1													
	2													
5														
	P		100							18			0.3	
										14			1.4	
										32				
										17				
	4		72	Becomes medium dense, bottom ash grades out										
	7													
10	9				429.4									
				With same bottom ash	10.5									
	7		72											
	11													
	9													
	4		89		425.9									
	8			Hard, dry, brown, low plastic, sandy Silty CLAY (CL)	14.0		4.5							
15	13													
	2		78	Becomes moist										
	4													
20	6													
					417.9									
				Very stiff, moist, gray, high plastic CLAY (CH)	22.0									
	P		100				2.5							
										25				
										26				

Completion Depth: 60.0 Ft. Water Depth: N/A ft., After ATD hrs.
 Project No.: 21561435.00000 _____ ft., After _____ hrs.
 Project Name: Dynegy Wood River _____ ft., After _____ hrs.
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones



LOG of BORING No. B-5-04-7

DATE 6/1/04 SURFACE ELEVATION, FT 439.9 DATUM NGVD LOCATION See Figure 1

DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
25										37 38	90	20	1.7	
				Loose, moist, brown and tan, fine grained silty SAND (SM)	412.9 27.0									
	2 2 3		83											Stop drilling (6/1/04) Resume drilling (6/2/04)
30				Stiff, wet, brown, medium plastic sandy silty CLAY (CL)	407.9 32.0									
	WH 2 2		83				1.5							
35														
40			0											
				Dense, wet, brown, fine grained silty SAND (SM) with gravel fragments	397.9 42.0									
	11 17 16		89											
45				Dense, wet, brown, well graded SAND (SW) with gravel fragments	392.9 47.0									
	13 18 13		94											

Completion Depth: 60.0 Ft. Water Depth: N/A ft., After ATD hrs.
 Project No.: 21561435.00000 _____ ft., After _____ hrs.
 Project Name: Dynegy Wood River _____ ft., After _____ hrs.
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones



LOG of BORING No. B-5-04-7

DATE 6/1/04 SURFACE ELEVATION, FT 439.9 DATUM NGVD LOCATION See Figure 1

DEPTH, ft.	SAMPLES	SAMPLING RESISTANCE	RECOVERY, %	DESCRIPTION	STRATUM EL / DEPTH	SYMBOL	PP, TSF	PID, ppm	FIELD Qu, KSF	NMC, %	LL	PI	Qu, KSF	NOTES
50														
		6	56	Becomes medium dense, gravel grades out		(Symbol: Dotted pattern)								
		8												
55		9												
		5	67											
		11												
60		18		Medium dense, wet, gray, coarse grained SAND (SP) Bottom of boring at 60'	380.4 59.5 379.9 60.0	(Symbol: Dotted pattern)								Approximately 50 gallons of mud lost
65														
70														

Completion Depth: 60.0 Ft. Water Depth: N/A ft., After ATD hrs.
 Project No.: 21561435.00000 _____ ft., After _____ hrs.
 Project Name: Dynegy Wood River _____ ft., After _____ hrs.
 Drilling Contractor: Harriss Drilling Co. Logged by: G. Jones

8/10/04 WCCXS 21561435 DYNEGY.GPJ

