

Project Name:

MWH Americas, Inc. 335 Phoenixville Pike Malvern, Pennsylvania 19355 Boring ID: FES-MW4 Ec13-121

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Frozen Earth Storage

Location: Delaware City, DE

Project Number: 1006472 **Date Started:** 11/18/2009 **Date Finished:** 11/24/2009 **Drilling Method:** Roto-sonic

Sampling Method:

State Permit Number: 229253

Boring Location: Frozen Earth Storage

Drilling Company:

Boart Longyear (R. Tabor)

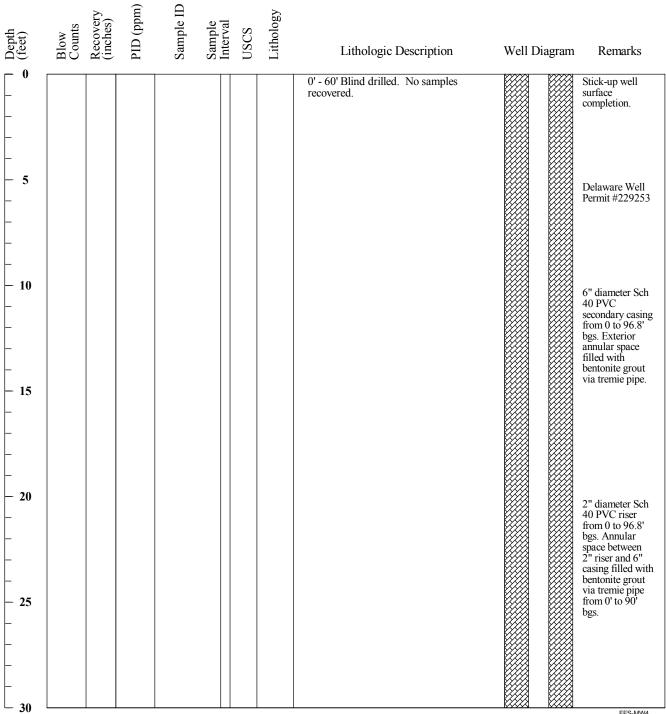
Ground Elevation (ft/msl):

Total Depth (ft): 130.0' **Boring Diameter (in):** 10"

Water Level During Drilling (ft/bgs): ~8

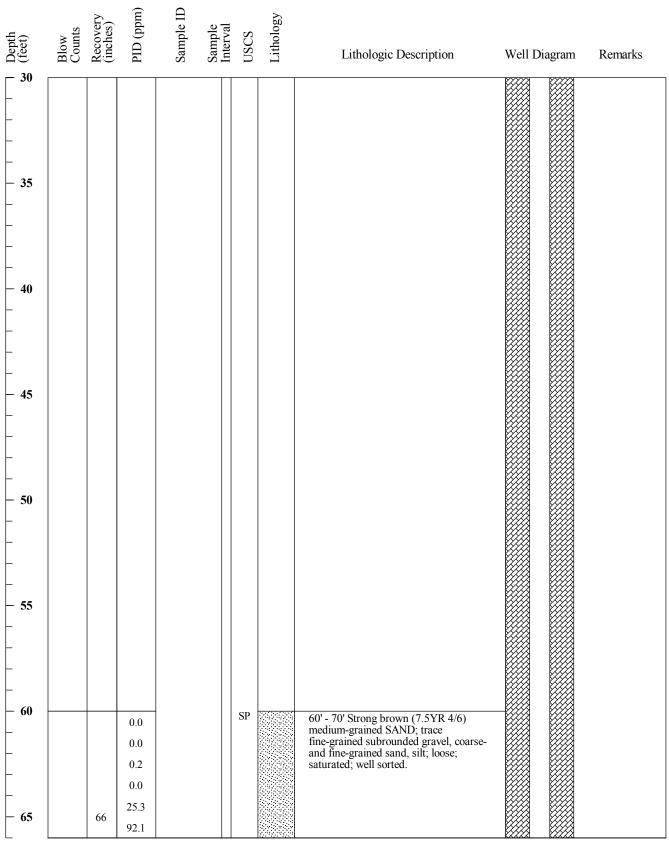
Weather Conditions:

Logged By: J.Remenicky



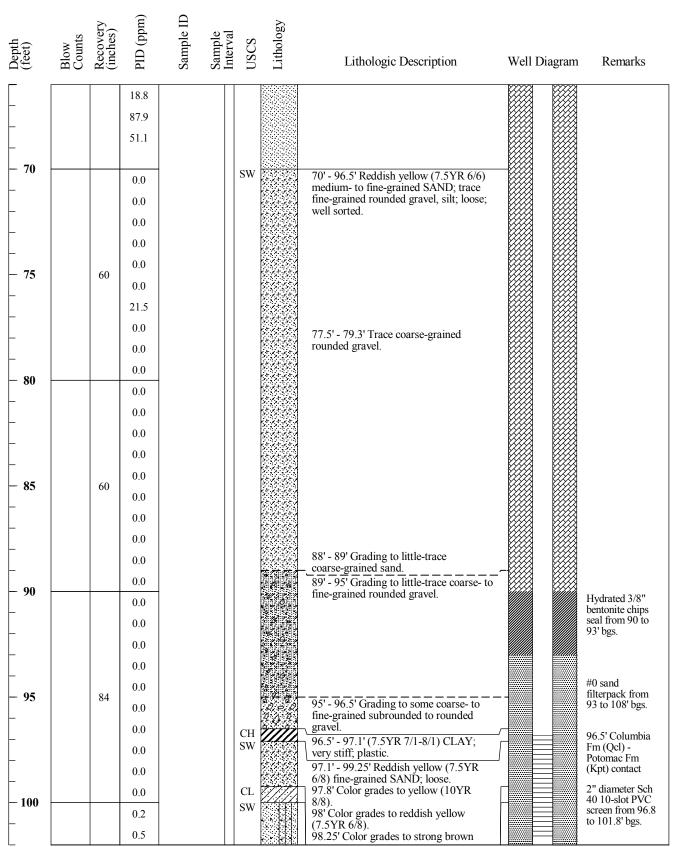
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Depth (feet)	Blow Counts	Recovery (inches)	PID (ppm)	Sample ID	Sample Interval	NSCS	Lithology	Lithologic Description Well Diagram Remark	S
105	Blo Cor	108 102 48	0.3 0.5 0.6 0.3 0.5 0.4 0.4 0.5 0.9 0.3 0.4 0.5 0.4 0.5 0.0 0.0 0.0 0.0 0.0	San	San	SM SW CL ML ML ML		Lithologic Description Well Diagram Remark. (7.5YR 5/6-5/8). 98.3' - 98.4' Coarse-grained subangular iron deposit (siderite) grain. 98.7' Color grades to very pale brown (10YR 8/2). 99.1' Color grades to pink (7.5YR 8/3-8/4) fine-grained SANDY CLAY; soft; high plasticity. 100' - 103' Very pale brown (10YR 7/3) SILTY medium- to fine-grained SAND; loose; saturated; 1/2" white to light gray (10YR 8/1-7/1) silly clay - soft, high plasticity. 103.5' - 104.3' Light gray (10YR 7/1) to very pale brown (10YR 7/4) SILTY very fine-grained SAND; thin <8mm clay lenses. 104.3' - 110.7' Light gray (10YR 7/1) to very pale brown (10YR 7/4) SILT; little very fine-grained sand; little to no clay; dense; moist; high plasticity; trace mottling to very pale brown (10YR 7/4). 110.7' - 112.6' Brownish yellow (10YR 6/8) SILTY very fine-grained SAND; trace clay; loose; saturated; grades to white (10YR 8/1) to light gray (10YR 7/1); soft; high plasticity. 112.2' Dark gray seam (~1/2"); soft; high plasticity. 112.2' Dark gray seam (~1/2"); soft; high plasticity. 112.6' - 113.7' Very pale brown (10YR 7/4). 113.9', 115.1', 115.7', and 116.4' Very hard at 117.0', cannot indent with fingernail. 117.3' - 118.3' Yellowish brown (10YR 5/8) at 113.9', 115.1', and 116.4' Very hard at 117.0', cannot indent with fingernail. 117.2' - 12.5' Yellowish brown (10YR 5/8) to light gray (10YR 7/2) very fine-grained SANDY SILT; trace clay; soft. 118.3' - 12.1.5' Yellowish brown (10YR 5/8); can roll into 2'' long ribbox. 121.5' - 123.5' Light gray (10YR 7/2) very fine-grained SANDY CLAYEY SILT; soft; saturated; high plasticity; trace yellowish brown (10YR 5/8); can roll into 2'' long ribbox. 124' - 130' No recovery.	Sch p c r ps i 10'
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