



# FIELD BOREHOLE LOG

BOREHOLE NO.: MW-292

TOTAL DEPTH (FT BGS): 90

## PROJECT INFORMATION

PROJECT: SRI Phase 3

PROJECT NO.: 10058697

SITE LOCATION: DDMT, Main Installation

PROJECT MANAGER: T. Holmes

FIELD STAFF: C. Mokri

BOREHOLE STARTED: 6/26/2018

BOREHOLE FINISHED: 6/27/2018

## DRILLING INFORMATION

DRILLING CO.: Cascade Drilling, L.P.

DRILLER: Jose Asua

DRILLING METHOD/RIG: Sonic, S1159

BOREHOLE DIAMETER: 6 in.

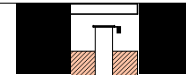
GROUND SURFACE ELEVATION (FT NAVD): 305.28

WATER DEPTH/ DATE(FT BTOC): 76.25 on 8/11/18

BOREHOLE USE: Monitoring Well

NOTES: PID readings collected at intervals of 5 feet or less beginning at ground surface; all readings were 0 parts per million (ppm). No water used during drilling. Boring backfilled with bentonite to 84.5 ft. bgs prior to well installation. Well installed 06/27, pad constructed 07/03 and well developed 07/17/18.

| Depth (ft, bgs) | Soil Symbol | Soil Description  | Well Completion | Comments |
|-----------------|-------------|---|-----------------|----------|
|                 |             | Asphalt   |                 |          |
|                 |             | Concrete  |                 |          |
|                 |             | <b>ML</b><br>Silt, very stiff, nonplastic, medium dry strength, 5YR 5/4, reddish brown, dry<br>Clayey silt, medium stiff, medium plasticity, 5 YR 5/3, reddish brown, moist<br>Trace fine sand, medium stiff, medium plasticity, 5 YR 5/4, reddish brown<br>With fine sand, medium to low plasticity, 5 YR 5/3, reddish brown, dry<br>Clayey silt with sand, medium to fine grained, very stiff, medium plasticity, 5 YR 6/6, reddish yellow<br>Clayey silt/silty clay with trace fine sand, medium stiff, medium to high plasticity, 5 YR 6/4, reddish brown |                 |          |
| 10              |             |   |                 |          |
|                 |             | <b>SC</b><br>Clayey sand, medium to fine grained, dense, medium plasticity, 5 YR 5/6, yellowish red   |                 |          |
| 20              |             |   |                 |          |
|                 |             | <b>SP</b><br>Sand with clay, medium dense, low to medium plasticity, moist<br>No clay, very loose, 5 YR 7/6, reddish yellow<br>With clay, medium dense, multi colored 2.5 YR 4/6, red and 2.5 YR 5/6, strong brown<br>Very dense, multi colored 7.5 YR 5/6, strong brown, 7.5 YR 4/6, red, and gley 1 6/N, gray   |                 |          |
| 30              |             |   |                 |          |
|                 |             | Fine grained, loose, 5 YR 7/8, reddish yellow<br>Medium grained, very dense, 7.5 YR 4/4, brown<br>Very loose, multi colored 5 YR 7/8, reddish yellow, and 2.5 YR 4/8, red<br>Trace gravel to 1/8", medium to coarse grained, loose, 5 YR 7/8, reddish yellow<br>With subrounded gravel to 1", very loose, 2.5 YR 8/3, pink  |                 |          |
| 40              |             |   |                 |          |
|                 |             |   |                 |          |
| 50              |             |   |                 |          |



GROUT

RISER

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| Depth | Soil Symbol | Soil Description   | Well Completion | Comments |
|-------|-------------|--|-----------------|----------|
| 60    |             | <b>SP/GP</b><br>Sand/Gravel, fine to medium grained, 2.5 YR 6/4, light reddish brown<br><br>Sand with gravel, fine to medium grained, loose, some weak to moderate cementation, 2.5 YR 6/4, reddish brown<br><br>Gravel to 1", medium to coarse grained, loose, 2.5 YR 5/4, reddish brown<br><br>Gravel to 1.5"<br><br>No gravel   |                 |          |
| 70    |             | <b>SP</b><br>Sand, medium grained, medium dense, weak cementation, 5 YR 5/4, yellowish red<br><br>Subrounded gravel to 1", medium grained, loose<br><br>Trace subrounded gravel to 1", very loose, 10 YR 7/3, very pale brown<br><br>10 YR 7/3, very pale brown with variegated red streak, 5 YR 5/8, yellowish red at 69.5 ft<br><br>2.5 YR 4/4, reddish brown<br>5 YR 6/6, reddish yellow, wet |                 |          |
| 80    |             | <b>GP</b><br>Gravel, subrounded gravel to 1", few coarse sand, loose, 10 YR 4/3, brown   |                 |          |
|       |             | <b>CL</b><br>Clay with some sand, medium soft, medium to high plasticity, 5 YR 6/6, reddish yellow   |                 |          |
|       |             | <b>SP</b><br>Sand with some clay, medium to fine grained, loose, 5 YR 6/3, light reddish brown   |                 |          |
|       |             | <b>CL</b><br>Clay with some fine sand, medium stiff, medium plasticity, gley 1 7/N, light gray with orange mottling  |                 |          |
|       |             | <b>SP</b><br>Sand, medium grained, loose, orange   |                 |          |
| 90    |             | <b>CL</b><br>Clay with some fine sand, very stiff, multicolored gley 1 6/N, gray and 5 YR 6/6 reddish yellow, moist  |                 |          |
|       |             | End of Log   |                 |          |
| 100   |             |  |                 |          |

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