

Client: DDMT

Project Number: <u>101014</u>51

Project: OSI

Well Installation Diagram

Logged by: <u>C. Mokri</u>

Well Completion Date: <u>6/2/2020</u>

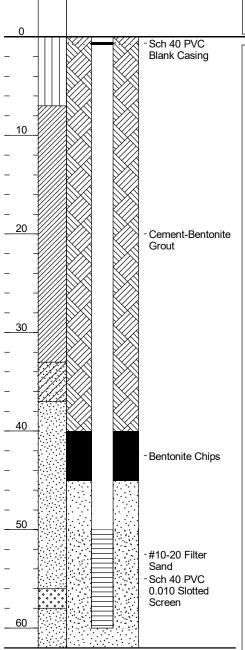
Northing: <u>282392.8</u>

Ground Elevation (NAVD88): <u>296.0</u>

Top of Screen Elevation (ft, NAVD): <u>246.0</u>

Well: MW-319

Site Location: 1852 Glory Cir. Top of Casing Elevation (ft, NAVD): 295.65 Easting: 803365.2 Drilling Company: Cascade Bollards: No Drilling Method: Sonic TS150CC Well Diameter (in): 2 Borehole Diameter (in): 6 Well Material: SCH 40 PVC DEPTH (ft)
GRAPHIC LOG Slot Size (in): 0.010WELL DIAGRAM Type of Filter Pack: Sand Grout Type: Type II Filter Pack Gradation: #10-20 Grout Quantity: 40 gal. Filter Pack Quantity: 300 lbs. Well Development Method: Waterra Hydrolift II Bentonite Type: 3/8 in. Chips Well Development Date: 6/13/20 Bentonite Quantity: 75 lbs. Depth to Water (ft. btoc): 47.63



Surface Completion: 8" Diameter Flush Mount Well Box

Pad Dimensions: 3 ft. x 3 ft.

Riser Length (ft): 49.7

Depth to Top of Bentonite (ft, bgs): 40

Depth to Top of Filter Pack (ft, bgs): 45

Length of Screen (ft): 10

Total Well Depth (ft, btoc): 59.9

Total Boring Depth (ft, btoc): 62



Well: MW-320

Client: DDMT Logged by: C. Mokri Ground Elevation (NAVD88): 269.2 Project: OSI Well Completion Date: 6/3/2020 Project Number: <u>101014</u>51 Top of Screen Elevation (ft, NAVD): 244.5 Northing: 282815.0 Site Location: 1908 Glory Cir. Top of Casing Elevation (ft, NAVD): 260.00 Easting: 803962.5 Drilling Company: Cascade Bollards: No Drilling Method: Sonic TS150CC Well Diameter (in): 2 Borehole Diameter (in): 6 Well Material: SCH 40 PVC DEPTH (ft)
GRAPHIC LOG Slot Size (in): <u>0.010</u> WELL DIAGRAM Type of Filter Pack: Sand Grout Type: Type II Filter Pack Gradation: #10-20 Grout Quantity: 20 gal Filter Pack Quantity: 250 lbs. Well Development Method: Waterra Hydrolift II Bentonite Type: 3/8 in. Chips Well Development Date: 6/12/20 Bentonite Quantity: 75 lbs. Depth to Water (ft. btoc): 16.38 Sch 40 PVC Blank Casing Surface Completion: 8" Diameter Flush Mount Well Box Pad Dimensions: 3 ft. x 3 ft. Cement-Bentonite Grout Riser Length (ft): 24.6 15 - Bentonite Chips Depth to Top of Bentonite (ft, bgs): 15 #10-20 Filter Sand Depth to Top of Filter Pack (ft, bgs): 20 Sch 40 PVC 0.010 Slotted Screen Length of Screen (ft): 10 Total Well Depth (ft, btoc): 34.8 Total Boring Depth (ft, btoc): 36

Created By: C. Mokri

Checked By: T. Holmes



Well: <u>MW-321</u>

Client: DDMT Logged by: C. Mokri Ground Elevation (NAVD88): 284.9 Project: OSI Well Completion Date: 6/3/2020 Project Number: <u>101014</u>51 Top of Screen Elevation (ft, NAVD): 235.8 Northing: 282637.6 Site Location: 1888 Glory Cir. Top of Casing Elevation (ft, NAVD): 284.68 Easting: 803752.2 Drilling Company: Cascade Bollards: No Drilling Method: Sonic TS150CC Well Diameter (in): 2 Borehole Diameter (in): 6 Well Material: SCH 40 PVC DEPTH (ft)
GRAPHIC LOG Slot Size (in): <u>0.010</u> WELL DIAGRAM Type of Filter Pack: Sand Grout Type: Type II Filter Pack Gradation: #10-20 Grout Quantity: 40 gal. Filter Pack Quantity: 300 lbs. Well Development Method: Waterra Hydrolift II Bentonite Type: 3/8 in. Chips Well Development Date: 6/11/20 Bentonite Quantity: 75 lbs. Depth to Water (ft. btoc): 33.99 Sch 40 PVC Blank Casing Surface Completion: 8" Diameter Flush Mount Well Box Pad Dimensions: 3 ft. x 3 ft. 20 Cement-Bentonite Grout Riser Length (ft): 48.9 30 Depth to Top of Bentonite (ft, bgs): 40 40 - Bentonite Chips Depth to Top of Filter Pack (ft, bgs): 45 #10-20 Filter Sand Sch 40 PVC 0.010 Slotted Screen Length of Screen (ft): 10 Total Well Depth (ft, btoc): 59.1 Total Boring Depth (ft, btoc): 60

Created By: C. Mokri

Checked By: T. Holmes



Client: DDMT

Project Number: 10101451

Site Location: Hayes and Boyle Ave

Project: OSI

Well Installation Diagram

lokri Ground Elevation (NAVD88): 286.9

Well: MW-322

Logged by: C. Mokri
Well Completion Date: 6/4/2020

Northing: <u>281913.6</u> Easting: <u>803177.2</u> Top of Screen Elevation (ft, NAVD): 229.4

Top of Casing Elevation (ft, NAVD): 286.63

Drilling Company: Cascade
Drilling Method: Sonic TS150CC
Borehole Diameter (in): 6

Well Diameter (in): 2
Well Material: SCH 40 PVC
Slot Size (in): 0.010

Type of Filter Pack: Sand

Type of Filter Pack: Sand

Filter Pack Gradation: #10-20

Filter Pack Quantity: 250 lbs.

Bentonite Type: 3/8 in. Chips

Bentonite Quantity: 75 lbs.

Grout Type: Type II

Grout Quantity: 75 gal.

Well Development Method: Waterra Hydrolift II

Well Development Date: 6/10/20

Depth to Water (ft. btoc): 42.98

Sch 40 PVC Blank Casing 20 Cement-Bentonite Grout 30 40 - Bentonite Chips #10-20 Filter Sand Sch 40 PVC 0.010 Slotted Screen 70

Surface Completion: 8" Diameter Flush Mount Well Box Pad Dimensions: 3 ft. x 3 ft.

Riser Length (ft): 57.3

Depth to Top of Bentonite (ft, bgs): 48

Depth to Top of Filter Pack (ft, bgs): 53.5

Length of Screen (ft): 10

Total Well Depth (ft, btoc): 67.5

Total Boring Depth (ft, btoc): 70



Client: DDMT

Project Number: <u>1010145</u>1

Project: OSI

Well Installation Diagram

Logged by: <u>C. Mokri</u>

Well Completion Date: <u>6/6/2020</u>

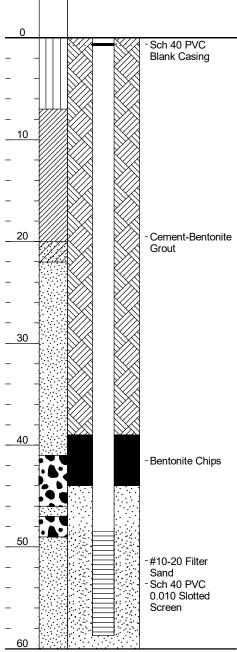
Northing: <u>282142.8</u>

Top of Screen Elevation (ft, NAVD): <u>226.9</u>

Top of Cosing Elevation (ft, NAVD): <u>0.75.00</u>

Well: MW-323

Site Location: 1740 Dunn Ave. Top of Casing Elevation (ft, NAVD): 275.33 Easting: 802967.8 Drilling Company: Cascade Bollards: No Drilling Method: Sonic TS150CC Well Diameter (in): 2 Borehole Diameter (in): 6 Well Material: SCH 40 PVC DEPTH (ft)
GRAPHIC LOG Slot Size (in): <u>0.010</u> WELL DIAGRAM Type of Filter Pack: Sand Grout Type: Type II Filter Pack Gradation: #10-20 Grout Quantity: 50 gal. Filter Pack Quantity: 200 lbs. Well Development Method: Waterra Hydrolift II Bentonite Type: 3/8 in. Chips Well Development Date: 6/13/20 Bentonite Quantity: 75 lbs. Depth to Water (ft. btoc): 31.90 Sch 40 PVC Blank Casing Surface Completion: 8" Diameter Flush Mount Well Box



Pad Dimensions: 3 ft. x 3 ft.

Riser Length (ft): 48.5

Depth to Top of Bentonite (ft, bgs): 39

Depth to Top of Filter Pack (ft, bgs): 44

Length of Screen (ft): 10

Total Well Depth (ft, btoc): 58.7

Total Boring Depth (ft, btoc): 60



Well: MW-324

Client: DDMT Logged by: <u>C. Mokri</u> Project: OSI Well Completion Date: 6/7/2020 **Project Number:** _10101451

Northing: 282370.6 Site Location: McClean and Person Easting: 802891.6

Ground Elevation (NAVD88): 279.1 Top of Screen Elevation (ft, NAVD): 220.7

Top of Casing Elevation (ft, NAVD): 278.70

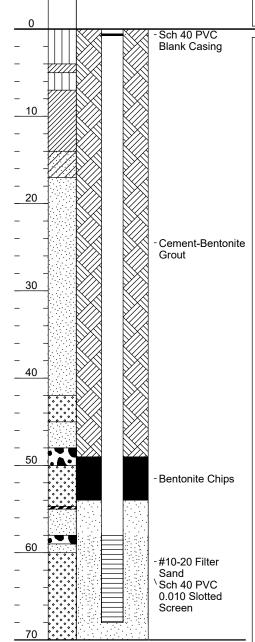
DEPTH (ft) sRAPHIC LOG	WELL DIAGRAM	Drilling Company: <u>Cascade</u> Drilling Method: <u>Sonic TS150CC</u> Borehole Diameter (in): <u>6</u>	Bollards: No Well Diameter (in): 2 Well Material: SCH 40 PVC Slot Size (in): 0.010
OE GRA		Type of Filter Pack: Sand Growth State Conduction #10 20 Growth State Conduction #10 20	out Type: _Type II

Filter Pack Gradation: #10-20 Filter Pack Quantity: 300 lbs. Bentonite Type: 3/8 in. Chips Bentonite Quantity: 100 lbs.

Pad Dimensions: 3 ft. x 3 ft.

Grout Quantity: 75 gal. Well Development Method: Waterra Hydrolift II

Well Development Date: 6/11/20 Depth to Water (ft. btoc): 35.63



Surface Completion: 8" Diameter Flush Mount Well Box

Riser Length (ft): 58.1

Depth to Top of Bentonite (ft, bgs): 49

Depth to Top of Filter Pack (ft, bgs): 54

Length of Screen (ft): 10

Total Well Depth (ft, btoc): 68.3 Total Boring Depth (ft, btoc): 70

Created By: C. Mokri Created Date: 6/30/20 Checked By: T. Holmes Checked Date: <u>7/6/20</u>



Ground Elevation (NAVD88): 284.5 Top of Screen Elevation (ft, NAVD): 225.8

Well: MW-325

Client: DDMT Logged by: C. Mokri Project: OSI Well Completion Date: 6/7/2020 **Project Number:** <u>1010145</u>1 Northing: 282706.3 Site Location: NE end of McClean Blvd. Top of Casing Elevation (ft, NAVD): 284.33 Easting: 803372.0 Drilling Company: Cascade Bollards: No Drilling Method: Sonic TS150CC Well Diameter (in): 2 Borehole Diameter (in): 6 Well Material: SCH 40 PVC DEPTH (ft)
GRAPHIC LOG Slot Size (in): <u>0.010</u> WELL DIAGRAM Type of Filter Pack: Sand Grout Type: Type II Filter Pack Gradation: #10-20 Grout Quantity: 75 gal Filter Pack Quantity: 275 lbs. Well Development Method: Waterra Hydrolift II Bentonite Type: 3/8 in. Chips Well Development Date: 6/12/20 Bentonite Quantity: 75 lbs. Depth to Water (ft. btoc): 34.21 Sch 40 PVC Blank Casing Surface Completion: 8" Diameter Flush Mount Well Box Pad Dimensions: 3 ft. x 3 ft. 20 Cement-Bentonite Grout Riser Length (ft): 58.6 30 40

Depth to Top of Bentonite (ft, bgs): 49

Depth to Top of Filter Pack (ft, bgs): 54

Length of Screen (ft): 10

Total Well Depth (ft, btoc): 68.8 Total Boring Depth (ft, btoc): 70

Created By: C. Mokri

- Bentonite Chips

#10-20 Filter Sand Sch 40 PVC 0.010 Slotted Screen

Checked By: T. Holmes



Well: _MW-326

Client: DDMT
Project: OSI

Site Location: SE corner of foundation

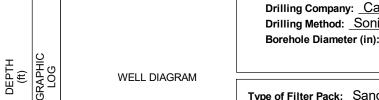
Project Number: 10101451

Logged by: C. Mokri
Well Completion Date: 6/8/2020

Northing: <u>282737.6</u> Easting: <u>803251.5</u> Ground Elevation (NAVD88): 274.2

Top of Screen Elevation (ft, NAVD): 215.3

Top of Casing Elevation (ft, NAVD): $\underline{273.83}$



Drilling Company: Cascade
Drilling Method: Sonic TS150CC
Borehole Diameter (in): 6

Bollards: No
Well Diameter (in): 2
Well Material: SCH 40 PVC
Slot Size (in): 0.010

Type of Filter Pack: Sand

Filter Pack Gradation: #10-20

Filter Pack Quantity: 250 lbs.

Bentonite Type: 3/8 in. Chips

Bentonite Quantity: 75 lbs.

Grout Type: Type II

Grout Quantity: 75 c

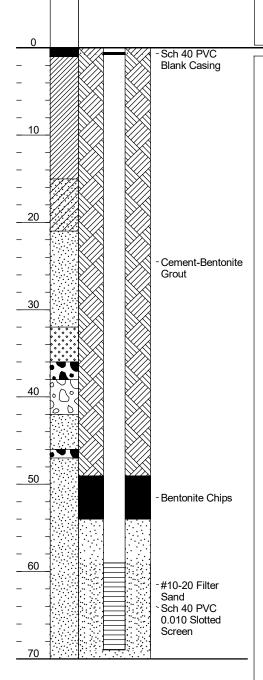
Well Development Mel

Well Development Dat

Grout Quantity: 75 gal.

Well Development Method: Waterra Hydrolift II

Well Development Date: 6/13/20Depth to Water (ft. btoc): 24.96



Surface Completion: 8" Diameter Flush Mount Well Box

Riser Length (ft): 58.6

Pad Dimensions: 3 ft. x 3 ft.

Depth to Top of Bentonite (ft, bgs): 49

Depth to Top of Filter Pack (ft, bgs): 54

Length of Screen (ft): 10

Total Well Depth (ft, btoc): 68.8

Total Boring Depth (ft, btoc): 70



DEPTH (ft)
GRAPHIC LOG

20

30

Client: DDMT

Project: OSI

Well Installation Diagram

Mokri Ground Elevation (NAVD88): 273.3

Well: MW-327

Logged by: C. Mokri
Well Completion Date: 6/8/2020

Top of Screen Elevation (ft, NAVD): 219.1

Top of Casing Elevation (ft, NAVD): 272.91

Project Number: 10101451
Site Location: W. of foundation

Northing: 282818.9
Easting: 803131.3

WELL DIAGRAM

Sch 40 PVC Blank Casing

Cement-Bentonite

- Bentonite Chips

#10-20 Filter

- Bentonite Chips

Sand Sch 40 PVC 0.010 Slotted Screen

Grout

Drilling Company: Cascade
Drilling Method: Sonic TS150CC
Borehole Diameter (in): 6

Bollards: No
Well Diameter (in): 2
Well Material: SCH 40 PVC
Slot Size (in): 0.010

Type of Filter Pack: Sand
Filter Pack Gradation: #10-20
Filter Pack Quantity: 325 lbs.
Bentonite Type: 3/8 in. Chips
Bentonite Quantity: 125 lbs.

Pad Dimensions: 3 ft. x 3 ft.

Grout Type: Type II

Grout Quantity: 75 gal.

Well Development Method: Waterra Hydrolift II

Well Development Date: 6/13/20

Depth to Water (ft. btoc): 24.50

Surface Completion: 8" Diameter Flush Mount Well Box

Riser Length (ft): 53.9

Depth to Top of Bentonite (ft, bgs): 44

Depth to Top of Filter Pack (ft, bgs): 49

Length of Screen (ft): 10

Total Well Depth (ft, btoc): 64.1

Total Boring Depth (ft, btoc): 70

Created By:	C. Mokri	