LANDFILL CLOSURE REPORT WDC ACQUISITION, LLC PRIVATE LANDFILL CAP AND CLOSURE

UNION COUNTY, IOWA

Prepared For:

WDC Acquisition, LLC 1746 Commerce Road Creston, IA 50801

Project No.: PA009761 December 2024

Prepared By:



Penn Environmental & Remediation, Inc. 100 Ryan Court, Suite 20 Pittsburgh, PA 15205

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Background

WDC Acquisition, LLC (WDC) owns a private landfill under Sanitary Landfill Permit No. 88-SDP-04-86P at its industrial facility in Creston, Iowa. The landfill is adjacent to its manufacturing facility buildings and was historically used for disposal of manufacturing byproducts such as foundry sand and baghouse dust. See **Appendix A** for a Project Location Map. The landfill has been regulated by Iowa Department of Natural Resources (IDNR) and the United States Environmental Protection Agency (EPA) and was recommended for closure. WDC has been working with its engineer, Penn Environmental & Remediation, Inc. (Penn E&R) for over twenty years, and engaged Penn E&R to assist with landfill closure design and planning. WDC has historically worked with Mick Leat of the IDNR. Mick was the IDNR contact before and through construction referenced in this report.

WDC proposed to close its landfill per IDNR regulations and has been working towards closure, while communicating with IDNR, in recent years. In recent years WDC has been removing material from the landfill and hauling it to another local sanitary landfill for beneficial use as alternative cover and access road base material. The material removal brought the landfill nearer to its proposed final size and elevations per the preliminary landfill closure plans. The material removal was slower than expected in 2022 and 2023 and WDC, with IDNR approval, decided to move forward with landfill closure before the landfill reached its planned final elevations. Thus, the preliminary closure plans needed altered. The final construction plans were similar to the preliminary plans but with higher elevations. The project also required an NPDES General Permit No. 2 with IDNR, which was issued on July 15, 2024. Penn E&R finalized the construction plans, contract specifications, and prepared the NPDES permit application.

Once the construction plans and specifications were prepared and the permit received, WDC received three bids from qualified local Contractors to complete the closure project. The lowest qualified bidder was selected and WDC, with support from Penn E&R, proceeded with the landfill closure construction in 2024. The construction was monitored by WDC and Penn E&R through construction and it was completed on time in October 2024. IDNR visited the landfill in October 2024 and indicated the construction progress was satisfactory. Penn E&R visited the landfill during construction in September 2024 and also completed a semiannual inspection (required per the Sanitary Landfill Permit). As part of the closure, WDC seeded the landfill in October 2024 before winter. This report serves as professional certification that the landfill was closed in accordance with IDNR regulations, specifically landfill slope, cover thickness, and clay cover compaction and moisture content.

Description of Work

Landfill Final Grading

The Contractor graded the final landfill waste to meet project plans and IDNR slope requirements (minimum 5% and maximum 25% slope). The final waste elevations were surveyed by a Professional Land Surveyor (PLS) licensed in the State of Iowa. The surveying firm throughout construction was Garden & Associates, LTD. (Garden), a local surveyor that has previously conducted required biennial landfill surveys for WDC. These past surveys noted the landfill material removal progress over the years as the landfill progressed toward readiness for closure.

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Compacted Clay Cover

After final waste elevations were accepted, the Contractor installed a two-foot-thick compacted clay cover on the landfill. The clay material came from the adjacent on-site borrow area on WDC property. The clay material was placed in three 8-inch lifts and each lift was compacted and tested to ensure it complied with IDNR regulations (at least 95 percent specific density compaction and a dry mass percent moisture at or up to four percent above optimum moisture) before the subsequent lift was placed. At least one test was conducted per each acre per each lift (typically seven tests per lift). Per IDNR, a 95% passing rate was required for all the clay cover tests for it to be acceptable to IDNR. See **Appendix B** for all the test results conducted.

The first test conducted, Report 1-1, indicated three failed tests out of six tests on the first lift (indicated on the report as Lift +1.00). Reports 2-0 and 3-0 retested the three failed tests on the first lift with passing results. Reports 3-0, 4-0, and 5-0 tested the second (Lift +2.00) lift and third (FSG +3.00) lift. The compacted clay cover final elevations were surveyed by Garden and compared to the final landfill waste elevations to confirm the clay cover was two foot thick. Initial surveys indicated that some areas of the landfill did not have a two-foot-thick clay cover. After discussion with IDNR, additional clay was placed and compacted in these areas. Garden returned to survey the compacted clay cover and confirmed the two-foot-thick clay cover was installed across the entire landfill.

After the testing results were acceptable and the clay cover thickness and slope confirmed, the Contractor installed two compacted clay interceptor ditches and berms on top of the landfill. The berms and ditches were designed to slow stormwater flow on the landfill and prevent erosion of the cover. The interceptor ditches conveyed the stormwater off the landfill to drainage structures. The Contractor installed perimeter channels, ditches, inlets, and subsurface tile piping to convey stormwater around the perimeter of the landfill and to the existing Outfall 001. Most stormwater on the site will be conveyed via subsurface tile piping.

Uncompacted Topsoil Cover

Next, the Contractor installed an uncompacted topsoil cover on the clay cover. Per conversations with IDNR, it is acceptable to IDNR if the total cover above the waste elevation is four feet. So, the uncompacted topsoil cover did not necessarily need to be at least two feet thick. After installation, Garden surveyed the topsoil cover. After it was confirmed the total cover above the waste (clay and topsoil) was four feet and the cover had appropriate slope, the landfill closure construction was deemed complete. See **Appendix C** for the surveyed plans depicting elevations, layer thickness, and slopes of the final waste, clay cover, and topsoil cover. Also in **Appendix C** are comparisons of the elevations for the top of waste versus the top of the compacted clay cover (indicating 2 feet of cover) and the top of waste versus the top of the uncompacted soil cover (indicating 4 feet of cover).

Ancillary Site Work

Before, during, and after working on the landfill, the Contractor worked on site drainage improvements and borrow area excavation and restoration. Drainage issues needed to be addressed in the northeast portion of the borrow area before the borrow area could be excavated and the landfill covered. The upstream (north) property neighbor was discharging stormwater in this location and causing ponding issues that needed addressed. This issue was recognized after heavy

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rain events before construction began. WDC and the Contractor coordinated with the neighbor and worked together to connect to the upstream discharges with new subsurface tile lines to convey the stormwater across the WDC property to its existing Outfall 001 to a roadside ditch to the Middle Platte River. Additional tile lines were installed, existing tile lines were discovered and connected to, and inlets to the tile piping system were installed throughout the borrow area and landfill perimeter to convey stormwater across the entire borrow area and landfill perimeter to the existing Outfall 001.

Once drainage issues were addressed at the borrow area, topsoil was removed from the borrow area and stockpiled, clay was excavated and placed on the landfill, and the borrow area was graded to allow positive drainage. WDC seeded the borrow area and landfill with a cool season grass blend along with a cover crop of annual winter cereal rye in October before the winter. WDC will monitor the vegetative growth on the landfill and the borrow area and will conduct additional seeding efforts as needed.

APPENDIX A

Project Location Map



APPENDIX B

Compacted Clay Cover Density Field Reports

PROJECT NO: 2-9732

REPORT DATE: 9/6/2024

Report No: 1-1

ISO 9001 International Accredited Laboratory

*** REVISED ***

Changed Elevation Datum to Lift # instead of FSG

WDC Acquisition LLC Landfill Closure, Creston, IA TO: Schaefer Excavating, Inc.

1864 215th Street

Mount Ayr, IA 50854

| Date | Test No. | Location {Comments} | | Elev. (Ft.) | Mtl. Mark | Wet Density pcf | % H2O of Dry Mass | Dry Density pcf | % Compact ASTM D6938 | % H2O Var. ASTM D6938 | Spec. Density % | Spec. % H2O |
|-----------|-------------|---------------------|---------------------|-------------|--------------|-----------------------|-------------------------|-----------------------|----------------------------|--------------------------------|-----------------------|----------------|
| 09-04-24 | 1 | West side | | Lift +1.00 | 6 | 118.8 | 24.3 | 97.6 | 98 | 1.6 | 95.0 | 0/+4 |
| 09-04-24 | 2 | SW side | | Lift +1.00 | 6 | 117.6 | 24.8 | 94.2 | 94 | 2.1 | 95.0 | 0/+4 |
| 09-04-24 | 3 | South side | | Lift +1.00 | 6 | 114.7 | <mark>21.3</mark> | 94.5 | 94 | -1.4 | 95.0 | 0/+4 |
| 09-04-24 | 4 | SE side | | Lift +1.00 | 6 | 119.5 | 25.4 | 95.3 | 95 | 2.7 | 95.0 | 0/+4 |
| 09-04-24 | 5 | East side | | Lift +1.00 | 6 | 114.3 | 24.2 | 92.5 | 92 | 1.5 | 95.0 | 0/+4 |
| 09-04-24 | 6 | NE side | | Lift +1.00 | 6 | 116.3 | 23.9 | 96.2 | 96 | 1.2 | 95.0 | 0/+4 |
| MTL. MARK | | PROCEDURE | MATERIAL DESCRIP | PTION | | | | | MAX DRY | DENS. PC | F OPT. | MOISTURE |
| 6 | AST | TM D698-A Standard | CH Gray with Grayis | sh Brown | | | | | 10 | 0.1 | | 22.7 |

| | | Standard Count | ts from Calibration | Gauge | | | | |
|----------|------------|----------------|---------------------|-------|---------|-------|-------|---------------------|
| Date | Operator | Density | Moisture | ID | Make | Model | S/N | Test Mode |
| 09-04-24 | Mehmedovic | 1,726.0 | 620.0 | 2974 | Troxler | 3430 | 27393 | Direct Transmission |

Note: Locations indicated are approximate. results represent only the locations tested at the time of testing. Values may change due to construction activity, weather, or environmental conditions. Reports shall not be reproduced, except in full, without our written permission. We use the simple acceptance/simple rejection decision rule to determine in-tolerance and out-of-tolerance or pass/fail comply (yes/no) conditions and no measurement uncertainty is applied to this determination.

Approved: Adam Gehrts

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TEAM Services * 717 S.E. 6th St. * Des Moines, IA 50309 ph: 515-282-8818 * fx: 515-282-8741 * email: staff@teamservices.com

PROJECT NO: 2-9732

REPORT DATE: 9/6/2024

Report No: 2-0



WDC Acquisition LLC Landfill Closure, Creston, IA TO: Schaefer Excavating, Inc.

1864 215th Street

Mount Ayr, IA 50854

| Date | Test No. | Locatio | on {Comments} | | Elev. (Ft.) | Mtl. Mark | Wet Density pcf | % H2O of Dry Mass | Dry Density pcf | % Compact ASTM D6938 | % H2O Var. ASTM D6938 | Spec. Density % | Spec. % H2O |
|-----------|-------------|---------------------------|----------------------------------|-------------------|--------------|--------------|-----------------------|-------------------------|-----------------------|----------------------------|--------------------------------|-----------------------|----------------|
| 09-06-24 | 7 | SW Sid | le {Retest of Te | est 2} | Lift +1.00 | 3 | 126.6 | 21.7 | 104.1 | 101 | 2.2 | 95.0 | 0/+4 |
| MTL. MARK | | PROCI | PROCEDURE MATERIAL DESCRIP | | | | | | | MAX DRY | DENS. PC | F OPT. | MOISTURE |
| 3 | AST | M D698 | B-A Standard | CL Gray with Dark | Gray trace B | rown | | | | 10 | 2.8 | | 19.5 |
| | | | | | L - | - | | - | | | | | |
| | | | Standard Counts from Calibration | | | e | | | | | | | |
| Date | Ope | Operator Density Moisture | | ID | | Make | N | lodel | S/N | | Test Mode | | |
| 09-06-24 | Ge | hrts | | | 3278 | | Troxler | 3 | 3440 | 20828 | Dire | ect Trans | mission |

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> Approved: Adam Gehrts

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PROJECT NO: 2-9732

REPORT DATE: 9/6/2024

Report No: 3-0



WDC Acquisition LLC Landfill Closure, Creston, IA TO: Schaefer Excavating, Inc.

1864 215th Street

Mount Ayr, IA 50854

| Date | Test No. | Location {Comments} | Elev. (Ft.) | Mtl. Mark | Wet Density pcf | % H2O of Dry Mass | Dry Density pcf | % Compact ASTM D6938 | % H2O Var. ASTM D6938 | Spec. Density % | Spec. % H2O |
|----------|-------------|-------------------------------|-------------|--------------|-----------------------|-------------------------|-----------------------|----------------------------|--------------------------------|-----------------------|----------------|
| 09-06-24 | 8 | South Side {Retest of Test 3} | Lift +1.00 | 3 | 124.0 | 20.8 | 102.6 | 100 | 1.3 | 95.0 | 0/+4 |
| 09-06-24 | 9 | East Side {Retest of Test 5} | Lift +1.00 | 3 | 125.1 | 20.8 | 103.6 | 101 | 1.3 | 95.0 | 0/+4 |
| 09-06-24 | 10 | NE Side {Extra Test} | Lift +1.00 | 3 | 124.1 | 20.4 | 103.1 | 100 | 0.9 | 95.0 | 0/+4 |
| 09-06-24 | 11 | NW Side | Lift +2.00 | 3 | 123.2 | 22.0 | 101.0 | 98 | 2.5 | 95.0 | 0/+4 |
| 09-06-24 | 12 | West Side | Lift +2.00 | 3 | 125.1 | 21.2 | 103.2 | 100 | 1.7 | 95.0 | 0/+4 |
| | | | | | | | | | | | |

| MTL. MARK | PROCEDURE | MATERIAL DESCRIPTION | MAX DRY DENS. PCF | OPT. MOISTURE |
|-----------|----------------------|------------------------------------|-------------------|---------------|
| 3 | ASTM D698-A Standard | CL Gray with Dark Gray trace Brown | 102.8 | 19.5 |

| | | Standard Count | ts from Calibration | Gauge | | | | |
|----------|----------|----------------|---------------------|-------|---------|-------|-------|---------------------|
| Date | Operator | Density | Moisture | ID | Make | Model | S/N | Test Mode |
| 09-06-24 | Gehrts | 1,619.0 | 688.0 | 3278 | Troxler | 3440 | 20828 | Direct Transmission |

Note: Locations indicated are approximate. results represent only the locations tested at the time of testing. Values may change due to construction activity, weather, or environmental conditions. Reports shall not be reproduced, except in full, without our written permission. We use the simple acceptance/simple rejection decision rule to determine in-tolerance and out-of-tolerance or pass/fail comply (yes/no) conditions and no measurement uncertainty is applied to this determination.

Approved:

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Adam Gehrts

PROJECT NO: 2-9732

REPORT DATE: 9/17/2024

Report No: 4-0



WDC Acquisition LLC Landfill Closure, Creston, IA TO: Schaefer Excavating, Inc.

1864 215th Street

Mount Ayr, IA 50854

| Date | Test No. | Location {Comments} | | Elev. (Ft.) | Mtl. Mark | Wet Density pcf | % H2O of Dry Mass | Dry Density pcf | % Compact ASTM D6938 | % H2O Var. ASTM D6938 | Spec. Density % | Spec. % H2O |
|-----------|-------------|---------------------|------------------|-------------|--------------|-----------------------|-------------------------|-----------------------|----------------------------|--------------------------------|-----------------------|----------------|
| 09-13-24 | 13 | East | | Lift +2.00 | 3 | 122.3 | 19.7 | 102.2 | 99 | 0.2 | 95.0 | 0/+4 |
| 09-13-24 | 14 | Northeast | | Lift +2.00 | 3 | 118.5 | 19.6 | 99.1 | 96 | 0.1 | 95.0 | 0/+4 |
| 09-13-24 | 15 | North | | Lift +2.00 | 3 | 120.9 | 20.1 | 100.7 | 98 | 0.6 | 95.0 | 0/+4 |
| 09-13-24 | 16 | Middle {Extra Test} | | Lift +2.00 | 3 | 120.0 | 19.8 | 100.1 | 97 | 0.3 | 95.0 | 0/+4 |
| 09-13-24 | 17 | Southeast | | Lift +2.00 | 3 | 127.4 | 23.4 | 103.3 | 100 | 3.9 | 95.0 | 0/+4 |
| 09-13-24 | 18 | Northwest | | Lift +3.00 | 3 | 124.9 | 19.6 | 104.4 | 102 | 0.1 | 95.0 | 0/+4 |
| 09-13-24 | 19 | West | | Lift +3.00 | 3 | 117.4 | 20.7 | 97.3 | 95 | 1.2 | 95.0 | 0/+4 |
| | | | | | | | | | | | | |
| MTL. MARK | | PROCEDURE | MATERIAL DESCRIP | TION | | | | | MAX DRY | DENS. PC | F OPT. | MOISTURE |

3 ASTM D698-A Standard MAX DRY DENS. PCF OPT. MOISTURE

19.5

102.8

| | | Standard Count | ts from Calibration | Gauge | | | | |
|----------|----------|----------------|---------------------|-------|---------|-------|-------|---------------------|
| Date | Operator | Density | Moisture | ID | Make | Model | S/N | Test Mode |
| 09-13-24 | Gehrts | 1,619.0 | 688.0 | 3278 | Troxler | 3440 | 20828 | Direct Transmission |

CL Gray with Dark Gray trace Brown

Note: Locations indicated are approximate. results represent only the locations tested at the time of testing. Values may change due to construction activity, weather, or environmental conditions. Reports shall not be reproduced, except in full, without our written permission. We use the simple acceptance/simple rejection decision rule to determine in-tolerance and out-of-tolerance or pass/fail comply (yes/no) conditions and no measurement uncertainty is applied to this determination.

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Approved:

Andy Eisinger

PROJECT NO: 2-9732

REPORT DATE: 9/23/2024

Report No: 5-0



WDC Acquisition LLC Landfill Closure, Creston, IA TO: Schaefer Excavating, Inc.

1864 215th Street

Mount Ayr, IA 50854

| Date | Test No. | Location {Comments} | Elev. (Ft.) | Mtl. Mark | Wet Density pcf | % H2O of Dry Mass | Dry Density pcf | % Compact ASTM D6938 | % H2O Var. ASTM D6938 | Spec. Density % | Spec. % H2O |
|----------|-------------|---------------------|-------------|--------------|-----------------------|-------------------------|-----------------------|----------------------------|--------------------------------|-----------------------|----------------|
| 09-19-24 | 20 | West Side {Retest} | FSG +3.00 | 3 | 119.6 | 20.2 | 99.5 | 97 | 0.7 | 95.0 | 0/+4 |
| 09-19-24 | 21 | North | FSG +3.00 | 3 | 122.3 | 22.4 | 99.9 | 97 | 2.9 | 95.0 | 0/+4 |
| 09-19-24 | 22 | NW Side | FSG +3.00 | 3 | 119.4 | 20.7 | 98.9 | 96 | 1.2 | 95.0 | 0/+4 |
| 09-19-24 | 23 | SE Side | FSG +3.00 | 3 | 118.6 | 20.2 | 98.6 | 96 | 0.7 | 95.0 | 0/+4 |
| 09-19-24 | 24 | SW Side | FSG +3.00 | 3 | 121.8 | 23.3 | 98.8 | 96 | 3.8 | 95.0 | 0/+4 |
| | | | | | | | | | | | |

| MTL. MARK | PROCEDURE | MATERIAL DESCRIPTION | MAX DRY DENS. PCF | OPT. MOISTURE |
|-----------|----------------------|------------------------------------|-------------------|---------------|
| 3 | ASTM D698-A Standard | CL Gray with Dark Gray trace Brown | 102.8 | 19.5 |

| | | Standard Counts from Calibration | | Gauge | | | | |
|----------|------------|----------------------------------|----------|-------|----------|---------|------|---------------------|
| Date | Operator | Density | Moisture | ID | Make | Model | S/N | Test Mode |
| 09-19-24 | Mehmedovic | 1,720.0 | 618.0 | 165 | Humboldt | H5001-P | 1548 | Direct Transmission |

Note: Locations indicated are approximate. results represent only the locations tested at the time of testing. Values may change due to construction activity, weather, or environmental conditions. Reports shall not be reproduced, except in full, without our written permission. We use the simple acceptance/simple rejection decision rule to determine in-tolerance and out-of-tolerance or pass/fail comply (yes/no) conditions and no measurement uncertainty is applied to this determination.

Approved:

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Andy Eisinger

APPENDIX C

Construction Progress Survey Exhibits







| Aug 2024 top of waste | Sep 2024 top of clay | Difference (ft) | Difference (in) | Shortfall (in) |
|-----------------------|----------------------|-----------------|-----------------|----------------|
| | | | | |
| 1279.3 | 1281.483 | 2.183 | 26.2 | -2.2 |
| 1280 | 1282.855 | 2.855 | 34.3 | -10.3 |
| 1279.88 | 1281.975 | 2.095 | 25.1 | -1.1 |
| 1269.26 | 1271.408 | 2.148 | 25.8 | -1.8 |
| 1263.35 | 1266.366 | 3.016 | 36.2 | -12.2 |
| 1261.66 | 1264.402 | 2.742 | 32.9 | -8.9 |
| 1280.28 | 1282.855 | 2.575 | 30.9 | -6.9 |
| 1280.01 | 1282.183 | 2.173 | 26.1 | -2.1 |
| 1276.75 | 1279.209 | 2.459 | 29.5 | -5.5 |
| 1273.11 | 1275.784 | 2.674 | 32.1 | -8.1 |
| 1261.66 | 1264.402 | 2.742 | 32.9 | -8.9 |
| 1280.76 | 1282.794 | 2.034 | 24.4 | -0.4 |
| 1282.21 | 1284.401 | 2.191 | 26.3 | -2.3 |
| 1282.1 | 1284.168 | 2.068 | 24.8 | -0.8 |
| 1276.75 | 1279.209 | 2.459 | 29.5 | -5.5 |
| 1273.7 | 1276.274 | 2.574 | 30.9 | -6.9 |
| 1270.09 | 1272.935 | 2.845 | 34.1 | -10.1 |
| 1266.26 | 1269.429 | 3.169 | 38.0 | -14.0 |
| 1264.02 | 1266.804 | 2.784 | 33.4 | -9.4 |
| 1262.29 | 1265.270 | 2.980 | 35.8 | -11.8 |
| 1259.69 | 1262.788 | 3.098 | 37.2 | -13.2 |
| 1278.94 | 1281.267 | 2.327 | 27.9 | -3.9 |
| 1283.44 | 1285.866 | 2.426 | 29.1 | -5.1 |
| 1283.4 | 1285.542 | 2.142 | 25.7 | -1.7 |
| 1280.72 | 1283.720 | 3.000 | 36.0 | -12.0 |
| 1278.05 | 1280.131 | 2.081 | 25.0 | -1.0 |
| 1273.7 | 1276.274 | 2.574 | 30.9 | -6.9 |
| 1270.09 | 1272.935 | 2.845 | 34.1 | -10.1 |
| 1266.26 | 1269.429 | 3.169 | 38.0 | -14.0 |
| 1264.02 | 1266.804 | 2.784 | 33.4 | -9.4 |
| 1262.29 | 1265.270 | 2,980 | 35.8 | -11.8 |
| 1259.69 | 1262.788 | 3.098 | 37.2 | -13.2 |
| 1278.72 | 1281.267 | 2.547 | 30.6 | -6.6 |
| 1278.18 | 1280.336 | 2.156 | 25.9 | -1.9 |
| 1283.76 | 1285.859 | 2.099 | 25.2 | -1.2 |
| 1283.08 | 1285.316 | 2.236 | 26.8 | -2.8 |
| 1280.88 | 1283,155 | 2.275 | 27.3 | -3.3 |
| 1277 78 | 1280.035 | 2 255 | 27.0 | -3.1 |
| 12774 45 | 1276 460 | 2.200 | 24.1 | -0.1 |
| 1269 89 | 1270.400 | 2 281 | 27.1 | -3.4 |
| 1265.7 | 1268 7/7 | 3.047 | 36.6 | -12.6 |
| 1263.8 | 1266 391 | 2 591 | 31.1 | -7.1 |
| 1262.28 | 1264 763 | 2.001 | 20 Q | -7.1 |
| 1202.20 | 1060 701 | 2.400 | 23.0 /1 1 | -0.0 |
| 1233.3 | 1202.721 | 0.421 0.207 | 41.1 20 G | -17.1 |
| 1203.00 | 100.247 | 2.007 | 20.0 | -4.0 |
| 1203.13 | 1200.420 | 2.200 | 20.0 | -2.8 |

| 1281.44 | 1283.464 | 2.024 | 24.3 | -0.3 |
|---------|----------|-------|--------------|-------|
| 1277.71 | 1280.097 | 2.387 | 28.6 | -4.6 |
| 1274.21 | 1276.392 | 2.182 | 26.2 | -2.2 |
| 1270.42 | 1272.740 | 2.320 | 27.8 | -3.8 |
| 1266.55 | 1268.988 | 2.438 | 29.3 | -5.3 |
| 1263.58 | 1266.224 | 2.644 | 31.7 | -7.7 |
| 1262.52 | 1264.879 | 2.359 | 28.3 | -4.3 |
| 1259.47 | 1262.284 | 2.814 | 33.8 | -9.8 |
| 1284.2 | 1286.384 | 2.184 | 26.2 | -2.2 |
| 1283.12 | 1285.649 | 2.529 | 30.3 | -6.3 |
| 1281.25 | 1283.542 | 2.292 | 27.5 | -3.5 |
| 1277.47 | 1280.301 | 2.831 | 34.0 | -10.0 |
| 1274.2 | 1276.313 | 2.113 | 25.4 | -1.4 |
| 1270.52 | 1272.889 | 2.369 | 28.4 | -4.4 |
| 1266.9 | 1269.094 | 2.194 | 26.3 | -2.3 |
| 1264.54 | 1266.635 | 2.095 | 25.1 | -1.1 |
| 1262 42 | 1264 590 | 2 170 | 26.0 | -2.0 |
| 1258.71 | 1261.917 | 3.207 | 38.5 | -14.5 |
| 1280.18 | 1282 435 | 2 255 | 27.1 | -3.1 |
| 1283 32 | 1285 313 | 1 993 | 27.1 | 0.1 |
| 1200.02 | 1285.012 | 2 392 | 20.0 | -4.7 |
| 1202.01 | 1282 256 | 2.002 | 20.7 | -1.6 |
| 1200.12 | 1202.230 | 2.100 | 23.0 | -1.0 |
| 1275.52 | 1201.320 | 2.008 | 24.1 | -0.1 |
| 1270.72 | 1275.366 | 2.086 | 25.0 | -1.0 |
| 1270.20 | 1273.300 | 2.000 | 25.0 | -1.0 |
| 1209.04 | 1271.747 | 2.107 | 20.0 | -1.3 |
| 1200.75 | 1209.111 | 2.301 | 20.3 | -4.3 |
| 1203.00 | 1207.013 | 1.955 | 23.4 | 0.0 |
| 1203.1 | 1203.103 | 2.003 | 24.0 | 0.0 |
| 1239.34 | 1202.175 | 2.000 | 34.0 25 G | -10.0 |
| 1273.03 | 1277.702 | 2.132 | 25.0 | -1.0 |
| 1273.40 | 1273.372 | 2.092 | 25.1 | -1.1 |
| 1272.73 | 1274.885 | 2.135 | 20.0 | -1.0 |
| 12/1.40 | 1273.030 | 2.378 | 28.3 | -4.5 |
| 1209.82 | 1271.631 | 2.031 | 24.4 | -0.4 |
| 1207.80 | 1270.175 | 2.315 | 27.8 | -3.8 |
| 1203.03 | 1208.498 | 2.648 | 34.2 | -10.2 |
| 1205.02 | 1267.148 | 2.128 | 20.0 | -1.5 |
| 1262.78 | 1264.939 | 2.159 | 25.9 | -1.9 |
| 1258.49 | 1261.644 | 3.154 | 37.8 | -13.8 |
| 12/0.03 | 1272.493 | 2.463 | 29.6 | -5.6 |
| 1267.9 | 1270.484 | 2.584 | 31.0 | -7.0 |
| 1267.01 | 1269.289 | 2.2/9 | 27.3 | -3.3 |
| 1265.78 | 1267.919 | 2.139 | 25.7 | -1./ |
| 1264.48 | 1266./16 | 2.236 | 26.8 | -2.8 |
| 1261.88 | 1264.34 | 2.460 | 29.5 | -5.5 |
| 1258.6 | 1261.249 | 2.649 | 31.8 | -7.8 |
| 1266.43 | 1269.149 | 2.719 | 32.6 | -8.6 |
| 1264.37 | 1267.085 | 2.715 | 32.6 | -8.6 |
| 1265.31 | 1267.367 | 2.057 | 24.7 | -0.7 |
| 1263.82 | 1266.398 | 2.578 | 30.9 | -6.9 |
| 1261.39 | 1263.503 | 2.113 | 25.4 | -1.4 |



| Aug-24 | 24-Oct | Difference (ft) | Difference (in) | Shortfall (in) |
|--------------|-------------|-----------------|-----------------|----------------|
| top of waste | top of soil | | | |
| 1279.299 | 1283.333 | 4.034 | 48.4 | -0.4 |
| 1279.995 | 1284.787 | 4.792 | 57.5 | -9.5 |
| 1279.882 | 1283.932 | 4.050 | 48.6 | -0.6 |
| 1276.056 | 1280.169 | 4.113 | 49.4 | -1.4 |
| 1274.103 | 1278.288 | 4.185 | 50.2 | -2.2 |
| 1266.625 | 1270.974 | 4.349 | 52.2 | -4.2 |
| 1263.349 | 1267.488 | 4.139 | 49.7 | -1.7 |
| 1261.662 | 1265.976 | 4.314 | 51.8 | -3.8 |
| 1280.006 | 1284.194 | 4.188 | 50.3 | -2.3 |
| 1276.752 | 1281.643 | 4.891 | 58.7 | -10.7 |
| 1273.114 | 1277.2 | 4.086 | 49.0 | -1.0 |
| 1261.66 | 1265.976 | 4.316 | 51.8 | -3.8 |
| 1280.76 | 1284.891 | 4.131 | 49.6 | -1.6 |
| 1282.095 | 1286.52 | 4.425 | 53.1 | -5.1 |
| 1276.752 | 1281.643 | 4.891 | 58.7 | -10.7 |
| 1273.704 | 1278.116 | 4.412 | 52.9 | -4.9 |
| 1270.094 | 1274.901 | 4.807 | 57.7 | -9.7 |
| 1266.256 | 1271.097 | 4.841 | 58.1 | -10.1 |
| 1264.017 | 1268.625 | 4.608 | 55.3 | -7.3 |
| 1262.287 | 1266.58 | 4.293 | 51.5 | -3.5 |
| 1259.693 | 1263.968 | 4.275 | 51.3 | -3.3 |
| 1278.945 | 1283.847 | 4.902 | 58.8 | -10.8 |
| 1283.436 | 1287.590 | 4.154 | 49.8 | -1.8 |
| 1283.395 | 1287.413 | 4.018 | 48.2 | -0.2 |
| 1280.717 | 1284.822 | 4.105 | 49.3 | -1.3 |
| 1278.052 | 1282.106 | 4.054 | 48.6 | -0.6 |
| 1273.704 | 1278.116 | 4.412 | 52.9 | -4.9 |
| 1270.094 | 1274.901 | 4.807 | 57.7 | -9.7 |
| 1266.256 | 1271.097 | 4.841 | 58.1 | -10.1 |
| 1264.017 | 1268.625 | 4.608 | 55.3 | -7.3 |
| 1262.287 | 1266.580 | 4.293 | 51.5 | -3.5 |
| 1259.693 | 1263.968 | 4.275 | 51.3 | -3.3 |
| 1278.182 | 1282.209 | 4.027 | 48.3 | -0.3 |
| 1283.757 | 1287.826 | 4.069 | 48.8 | -0.8 |
| 1283.077 | 1287.473 | 4.396 | 52.8 | -4.8 |
| 1280.883 | 1285.036 | 4.153 | 49.8 | -1.8 |
| 1277.778 | 1282.143 | 4.365 | 52.4 | -4.4 |
| 1274.449 | 1278.748 | 4.299 | 51.6 | -3.6 |
| 1269.893 | 1274.849 | 4.956 | 59.5 | -11.5 |
| 1265.696 | 1271.247 | 5.551 | 66.6 | -18.6 |
| 1263.795 | 1268.745 | 4.950 | 59.4 | -11.4 |
| 1262.275 | 1269.557 | 7.282 | 87.4 | -39.4 |
| 1259.3 | 1264.399 | 5.099 | 61.2 | -13.2 |
| 1283.859 | 1287.929 | 4.070 | 48.8 | -0.8 |
| 1283.193 | 1287.211 | 4.018 | 48.2 | -0.2 |

| 1281.44 | 1285.542 | 4.102 | 49.2 | -1.2 |
|----------|----------------------|----------------|--------------|-------|
| 1277.709 | 1282.226 | 4.517 | 54.2 | -6.2 |
| 1274.206 | 1278.332 | 4.126 | 49.5 | -1.5 |
| 1270.423 | 1274.808 | 4.385 | 52.6 | -4.6 |
| 1266.549 | 1271.201 | 4.652 | 55.8 | -7.8 |
| 1263.584 | 1270.881 | 7.297 | 87.6 | -39.6 |
| 1262.518 | 1266.619 | 4.101 | 49.2 | -1.2 |
| 1259.473 | 1264.129 | 4.656 | 55.9 | -7.9 |
| 1280.628 | 1284.777 | 4.149 | 49.8 | -1.8 |
| 1284.203 | 1288.495 | 4.292 | 51.5 | -3.5 |
| 1283.117 | 1287.461 | 4.344 | 52.1 | -4.1 |
| 1281.253 | 1285.281 | 4.028 | 48.3 | -0.3 |
| 1277.467 | 1284.342 | 6.875 | 82.5 | -34.5 |
| 1274.202 | 1278.323 | 4.121 | 49.5 | -1.5 |
| 1270.521 | 1274.951 | 4.430 | 53.2 | -5.2 |
| 1266.902 | 1271.277 | 4.375 | 52.5 | -4.5 |
| 1264.545 | 1268.841 | 4.296 | 51.6 | -3.6 |
| 1262.42 | 1267.137 | 4.717 | 56.6 | -8.6 |
| 1258.708 | 1264.016 | 5.308 | 63.7 | -15.7 |
| 1280.185 | 1284.270 | 4.085 | 49.0 | -1.0 |
| 1282.611 | 1286.722 | 4.111 | 49.3 | -1.3 |
| 1280.116 | 1284.165 | 4.049 | 48.6 | -0.6 |
| 1279.519 | 1283.581 | 4.062 | 48.7 | -0.7 |
| 1276.723 | 1280.714 | 3.991 | 47.9 | 0.1 |
| 1273.279 | 1277.561 | 4.282 | 51.4 | -3.4 |
| 1269.637 | 1274.310 | 4.673 | 56.1 | -8.1 |
| 1266.746 | 1271.229 | 4.483 | 53.8 | -5.8 |
| 1265.66 | 1270.234 | 4.574 | 54.9 | -6.9 |
| 1263.103 | 1267.298 | 4.195 | 50.3 | -2.3 |
| 1259.338 | 1264.008 | 4.670 | 56.0 | -8.0 |
| 1277.485 | 1281.513 | 4.028 | 48.3 | -0.3 |
| 1275.65 | 1279.819 | 4.169 | 50.0 | -2.0 |
| 1273.481 | 1277.933 | 4.452 | 53.4 | -5.4 |
| 1272.752 | 1277.029 | 4.277 | 51.3 | -3.3 |
| 1271.459 | 1276.631 | 5.172 | 62.1 | -14.1 |
| 1269.818 | 1274.247 | 4.429 | 53.1 | -5.1 |
| 1267.856 | 1271.881 | 4.025 | 48.3 | -0.3 |
| 1265.65 | 1270.275 | 4.625 | 55.5 | -7.5 |
| 1265.015 | 1269.061 | 4.046 | 48.6 | -0.6 |
| 1262.775 | 1266.785 | 4.010 | 48.1 | -0.1 |
| 1258.491 | 1262.684 | 4.193 | 50.3 | -2.3 |
| 1270.026 | 1275.247 | 5.221 | 62.7 | -14.7 |
| 1267.9 | 1272.781 | 4.881 | 58.6 | -10.6 |
| 1267.01 | 1271.022 | 4.012 | 48.1 | -0.1 |
| 1265.776 | 1269.918 | 4.142 | 49.7 | -1.7 |
| 1264.48 | 1268.522 | 4.042 | 48.5 | -0.5 |
| 1261.875 | 1266.119 | 4.244 | 50.9 | -2.9 |
| 1258.598 | 1262.908 | 4.310 | 51.7 | -3.7 |
| 1268.692 | 12/3.6/4 | 4.982 | 59.8 FC 1 | -11.8 |
| 1266.434 | 12/1.10/ | 4.6/3 | 56.1 | -8.1 |
| 1264.374 | 1268./19 | 4.345 | 52.1 | -4.1 |
| 1265.307 | 1269.358 | 4.051 | 48.b | -0.6 |
| 1263.815 | 1267.852 | 4.037 | 48.4 | -0.4 |
| 1201.39 | 1203.031 | 4.241 | эU.9 40.9 | -2.9 |
| 1207.023 | 1702 001 1701.10A | 4.140 5.110 | 49.8 61 4 | -1.8 |
| 1270.702 | 1200.001 | 1 065 | 01.4 40 7 | -13.4 |
| 12/3.013 | 1203.301 | 4.002 | 40./ | -0.7 |