



REPORT

Aggregate Resource Evaluation
Safarik Pit

Submitted to:

CBM Aggregates (CBM), a division of St. Marys Cement Inc. (Canada)

55 Industrial Street
Toronto, ON M4G 3W9

Submitted by:

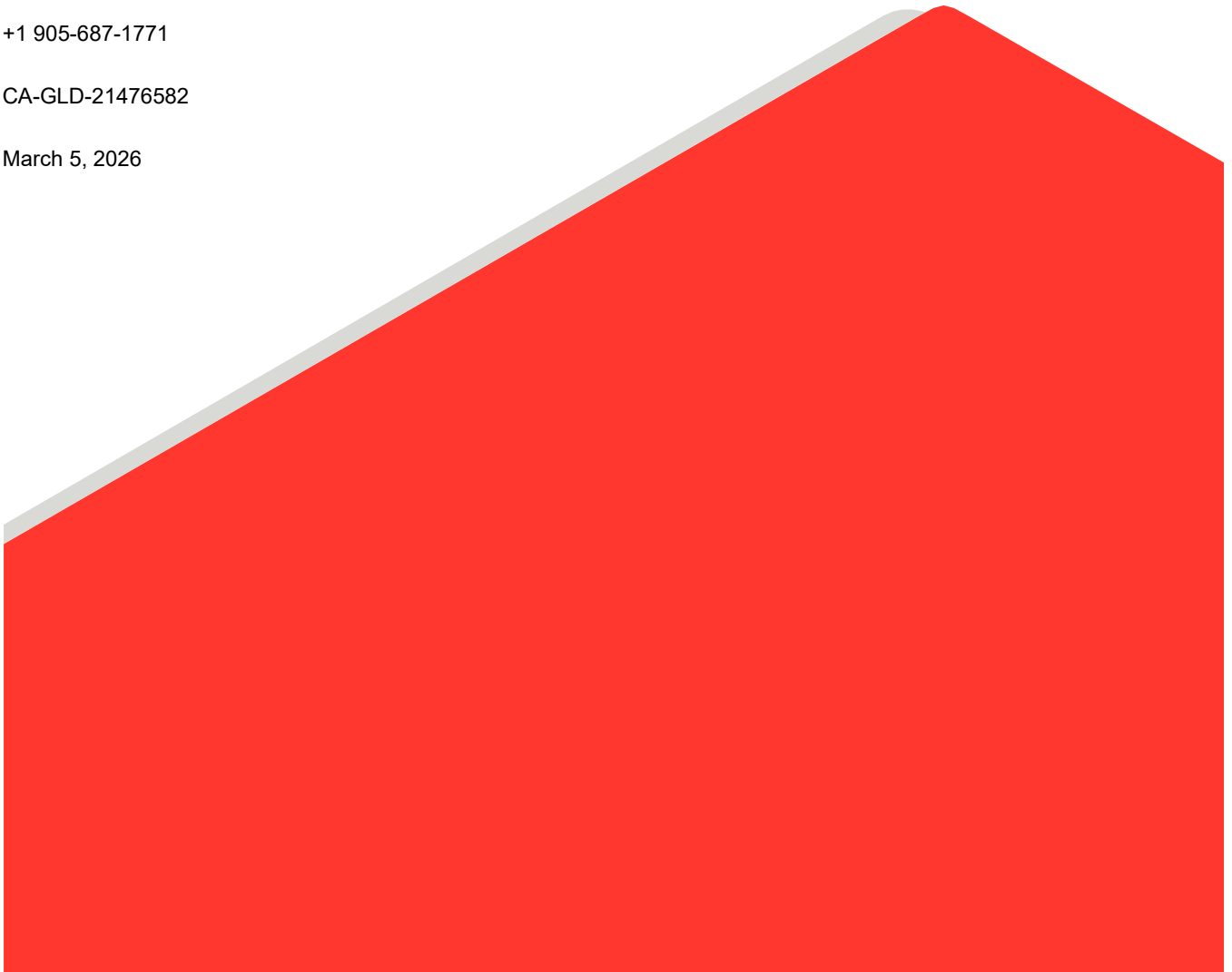
WSP Canada Inc.

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CA-GLD-21476582

March 5, 2026



Distribution List

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1.0 INTRODUCTION

The proposed Safarik Pit property is located at 4275 7th Concession in the Township of Puslinch, Wellington County, Ontario (Site), as shown in the Location Map (**Figure 1**). The Site is ± 28 hectares (ha) in size and is located to the east/southeast of the existing CBM Neubauer and McNally Pits. The Site is bisected by a hydro easement; although, access to the eastern portion of the Site is permitted.

The proposed pit will be developed below the natural groundwater table. The proposed extraction areas for the Site comprise ± 22 ha, ± 10 ha of which is anticipated to be below-water extraction. The proposed extraction limits are illustrated on **Figure 2**. CBM is required to obtain a Class A Licence (Pit Below Water) for the Site under the *Aggregate Resources Act* (ARA).

WSP Canada Inc. (WSP) was retained by CBM Aggregates (CBM) to provide this aggregate resource evaluation report for the Site as part of future Site licensing under the ARA.

2.0 PHYSICAL SETTING

The Site is situated in a rural area, and land use in the vicinity of the Site is primarily agricultural, rural residential, undeveloped, and licensed aggregate extraction. Highway 401 runs approximately 300 m north of the Site. Surface topography at the Site is variable and ranges from a low of 315 metres above sea level (mASL) near the western corner of the Site and a high of 335 mASL within the woodlot along the eastern corner of the Site.

Physiography at the Site and immediately surrounding the Site is mapped as Till Moraines, as shown in **Figure 3**, which are situated within the Horseshoe Moraines physiographic region (Chapman & Putnam, 1984). Surficial geology mapping indicates that the Site is located just south of the Aberfoyle Spillway, on the northern edge of the Galt Moraine. The Galt Moraine consists of the Wentworth Till, which is described as a stoney to sandy silt till with occasional zones of ice-contact sand and gravel.

As shown in **Figure 4**, the mapping shows an area of ice-contact stratified deposits present immediately north and west of the Site. According to Aggregate Resources Inventory Paper (ARIP) 162, that mapped deposit is of “tertiary” significance, as the deposit contains more than 35% gravel, but is less than 1.5 m thick (Planning & Engineering Initiatives Ltd. and Staff of the Sedimentary Geoscience Section, OGS, 1999). The majority of the nearby aggregate pits located west and north of the Site are situated within a mapped sand and gravel resource of primary significance, which consists of outwash deposits associated with the Galt Moraine (Planning & Engineering Initiatives Ltd. and Staff of the Sedimentary Geoscience Section, OGS, 1999).

Quaternary geology mapping (**Figure 5**) indicates that glaciofluvial outwash deposits are present at the Site and the deposit extends northward toward Aberfoyle and westward within the nearby aggregate pit properties.

3.0 FIELD INVESTIGATIONS

Boreholes were advanced during two separate drilling programs in 2020 and in 2021 at the Site. The locations of boreholes are shown on the Site Plan figure (**Figure 6**).

2020

In November 2020, Golder Associates Ltd. (now WSP) advanced nine (9) boreholes as part of an initial resource assessment for the Site. The boreholes were designated BH20-01 (SAF) through BH20-09 (SAF). Monitoring wells were not installed during the 2020 drilling program.

2021

In December 2021, WSP advanced eight (8) additional boreholes across the Site to further assess the aggregate resource and install groundwater monitoring wells for hydrogeological studies. Four (4) of the boreholes were sealed upon completion and were designated BH21-01 (SAF) through BH21-04 (SAF). The remaining four boreholes were completed as monitoring wells, designated MW21-01 (SAF) through MW21-04 (SAF) (**Figure 6**). During drilling of MW21-03, a shallow perched groundwater condition was encountered and a second monitoring well which screened the shallow perched interval was installed. A deeper well was also installed adjacent to the shallow well to create a well nest. The shallow and deep wells are referred to as MW21-03-S (SAF) and MW21-03-D (SAF), respectively. Therefore, a total of five (5) monitoring wells were installed.

Both drilling programs were contracted to Choice Sonic Drilling Ltd. of Brighton, Ontario, and were supervised by WSP. Boreholes were drilled using a track-mounted rotasonic (Sonic SDC 550) drill rig, which obtained 114 mm diameter (4.5 inch) continuous soil cores. Borehole logs for the 2020 and 2021 drilling programs are provided in **Appendix A**. Monitoring well construction details are summarized in **Table A-1, Appendix A**.

Soil logging, sampling and photographs of recovered soil cores was conducted at each borehole, with samples typically collected at 1.5 m (5-foot) intervals. Soil samples from the 2020 drilling program were submitted to CBM's Lake property for storage and future grain size testing by CBM; results of the testing are not included in this report. Soil samples from the 2021 drilling program were submitted to WSP's Soils Laboratory in Whitby, Ontario for grain size analysis. Available soil core photographs from the 2021 drilling program are provided in **Appendix B**. Copies of the laboratory gradation reports and grain size calculations for the samples analyzed as part of the 2021 drilling program are provided in **Appendix C**. We note that physical aggregate quality testing was not carried out on the samples collected during the respective drilling programs for the Site.

The borehole locations (UTM NAD83, Zone 17T) and approximate elevations (mASL) are summarized in Table 1 below.

Table 1: Borehole and Monitoring Well Drilling Details – Safarik Pit

| Borehole / Monitoring Well | Easting (m) | Northing (m) | Approximate GS Elevation (mASL) | Borehole Depth (mBGS) |
|----------------------------|-------------|--------------|---------------------------------|-----------------------|
| BH20-01(SAF) | 569,619 | 4,810,048 | 320 | 28.4 |
| BH20-02(SAF) | 569,816 | 4,810,100 | 324 | 24.1 |
| BH20-03(SAF) | 569,769 | 4,810,316 | 325 | 29.9 |
| BH20-04(SAF) | 569,684 | 4,810,189 | 322 | 23.8 |
| BH20-05(SAF) | 569,762 | 4,809,972 | 326 | 24.1 |
| BH20-06(SAF) | 570,100 | 4,810,262 | 331 | 29.9 |
| BH20-07(SAF) | 570,178 | 4,810,411 | 330 | 32.0 |
| BH20-08(SAF) | 570,023 | 4,810,567 | 324 | 24.1 |
| BH20-09(SAF) | 570,022 | 4,810,422 | 325 | 28.7 |
| BH21-01 (SAF) | 569,731 | 4,810,081 | 322 | 26.8 |
| BH21-02 (SAF) | 569,794 | 4,810,223 | 327 | 29.9 |
| BH21-03 (SAF) | 570,133 | 4,810,347 | 330 | 36.0 |

| Borehole / Monitoring Well | Easting (m) | Northing (m) | Approximate GS Elevation (mASL) | Borehole Depth (mBGS) |
|----------------------------|-------------|--------------|---------------------------------|-----------------------|
| BH21-04 (SAF) | 570,078 | 4,810,508 | 324 | 32.9 |
| MW21-01 (SAF) | 569,526 | 4,810,094 | 316.95 * | 25.3 |
| MW21-02 (SAF) | 569,932 | 4,810,014 | 327.98 * | 22.6 |
| MW21-03-D (SAF) | 570,038 | 4,810,680 | 321.42 * | 28.0 |
| MW21-03-S (SAF) | 570,040 | 4,810,678 | 321.38 * | 5.5 |
| MW21-04 (SAF) | 570,310 | 4,810,448 | 327.87 * | 33.2 |

Notes:

- * = surveyed with Sokkia GCX2
- GS = ground surface
- mBGS = metres below ground surface

We note that, in four (4) of the boreholes drilled during the 2020 and 2021 drilling programs, dolostone bedrock of the Guelph Formation was encountered at/near the borehole termination depth, including BH20-01 (SAF), BH21-04 (SAF), MW21-01 (SAF) and MW21-03 (SAF). At its shallowest, bedrock was encountered at approximately 24.4 mBGS / 292.6 mASL at MW21-01 (SAF) in the western corner of the Site.

4.0 RESULTS

Geological cross-sections prepared based on the stratigraphy encountered at the drilling locations are provided on **Figures 7 and 8**. Cross-section lines are shown on **Figure 6**.

A thin (0.2 to 1.5 m thick) veneer of topsoil was identified at most drilling locations. Beneath the topsoil, the stratigraphy generally consisted of layers of till and stratified sand and gravel (\pm cobble, \pm silt) outwash deposits, with occasional lenses of clayey silt or silty/clayey sands, and/or additional discontinuous layers of till. The cross-sections depict two continuous layers of till. The "Upper Till" was described as silty sand and gravel till and was typically found to be between 5 to 10 m thick. The "Lower Till" was described as a dense sandy silt, silty sand or silty clay till. The surface of the Lower Till was encountered at an elevation ranging from approximately 291 to 308 mASL, with an average of approximately 299.5 mASL. The majority of the boreholes were terminated within this Lower Till, as this unit was considered to be the vertical limit of the Site's aggregate resource.

It is expected that aggregate extraction will terminate on the surface of the Lower Till (or bedrock, where the Lower Till was absent). The sand and gravel (\pm cobble, \pm silt) outwash resource material below the Upper Till ranged between approximately 7 to 20 m thick in the boreholes drilled on Site, and the relative proportions of sand to stone (gravel / cobble) content varied from borehole to borehole. In addition, a thinner layer (up to 5 m) of sand and gravel outwash (\pm cobble, \pm silt) material was observed above the Upper Till in most boreholes across the Site. Based on the borehole results, the extraction depth is anticipated to range between approximately 20 mBGS near MW21-02 (SAF) to approximately 33 mBGS near BH21-03 (SAF), with an average depth of approximately 25 m.

As shown on the cross-section figures, additional discontinuous layers of till were observed between the Upper Till and the Lower Till at some borehole locations. In addition, a 5.9 m thick layer of silty clayey sand was observed at a depth of approximately 5.8 mBGS (324.2 mASL) at BH20-07 (SAF). This cohesive layer was not observed at the other borehole locations drilled closest to BH20-07 (SAF).

At MW21-03 (SAF), located in the northern corner of the proposed extraction area, saturated conditions were encountered above the Upper Till layer. A 2.6 m thick layer of saturated clayey silt was observed overlying the Upper Till. As previously noted, a shallow monitoring well was installed to screen this saturated condition. Elsewhere on the Site, groundwater was encountered at depths ranging from approximately 12 to 26 mBGS.

Based on the geologic information obtained during the drilling program, it is estimated that there is approximately 5.2 million tonnes of marketable sand and gravel resource present between the Upper Till and Lower Till within the ±22 ha proposed extraction areas. This is based on an approximated average thickness of 14 m and an average material density of 1.7 tonnes / m³. We note that additional resources comprising the Upper Till (with appropriate processing techniques) and the shallower discontinuous sand and gravel outwash material at the Site may yield additional quantities of usable aggregate.

Based on the maximum predicted water table for the Site, which is presented in a separate report, approximately half or more of the aggregate resource volume is anticipated to be above the water table in the southern and eastern portions of the Site, while approximately half or more of the aggregate resource volume is anticipated to be below the water table in the northern and western portions of the Site.

With reference to **Appendix C**, the tested samples from the 2021 boreholes were found to have an average fineness modulus (FM) of 5.21 (full FM), and an average sand portion FM of 3.09, indicating generally coarse-grained deposits at the Site. Overall, a notable proportion of crushable stone content was observed within the majority of the boreholes drilled at the Site. A variety of aggregate products will be able to be produced from the native granular material on the property, subject to meeting physical properties criteria for aggregate quality.

Signature Page

WSP Canada Inc.



Brendan Crilly, B.Sc., B.A., P.Geol.
Project Geoscientist

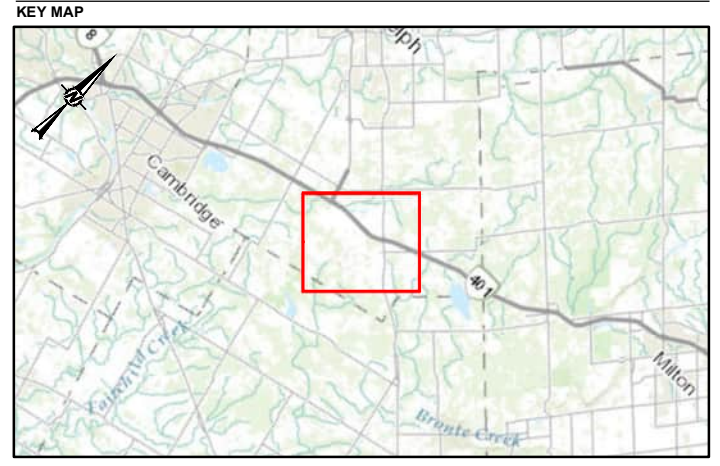
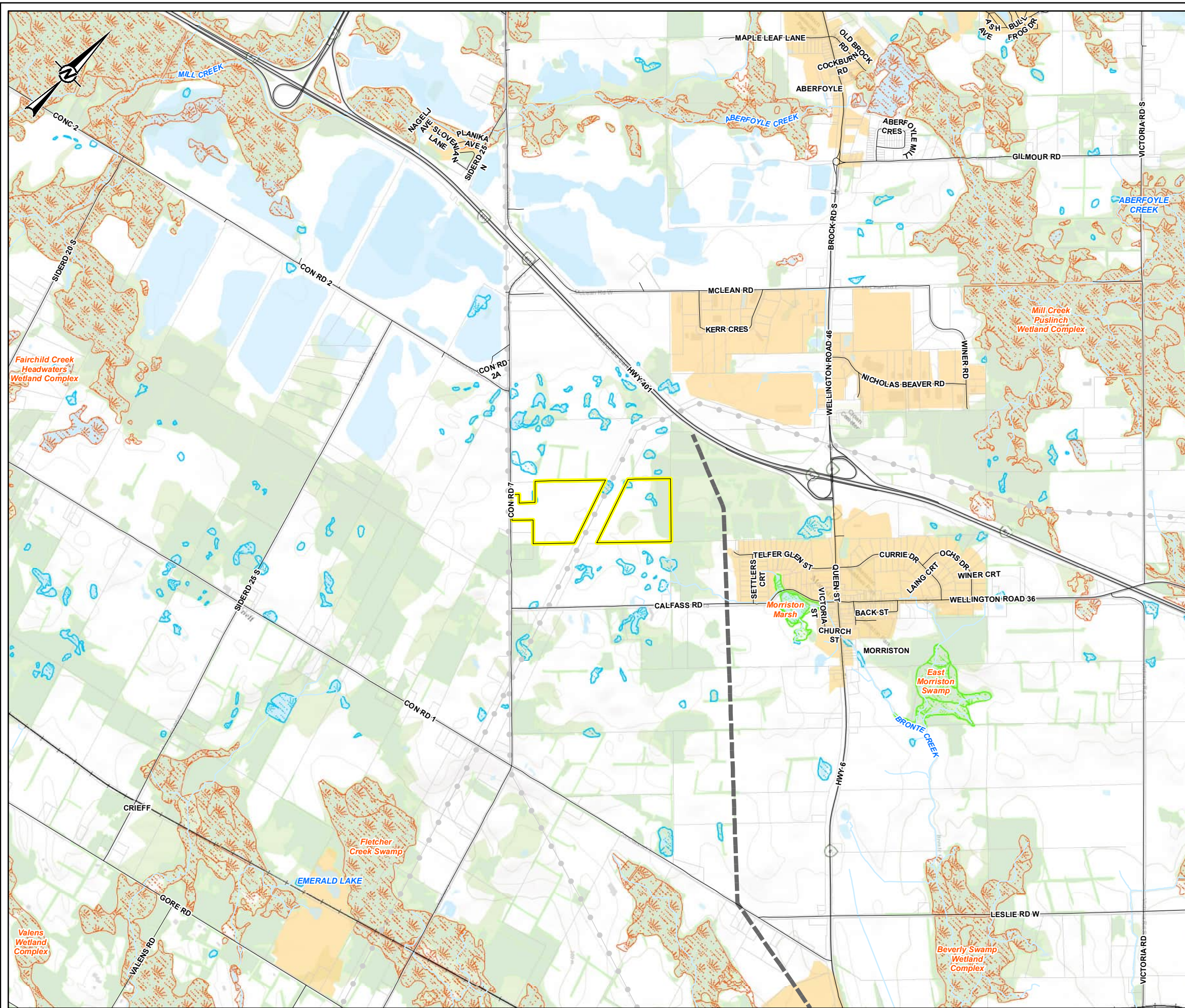


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Senior Project Engineer

BC/KJF/bc

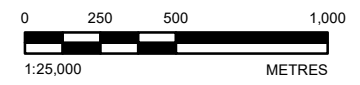
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Figures



SCALE 1:500,000

- LEGEND**
- ROADWAY
 - WATERCOURSE
 - RAILWAY
 - UTILITY CORRIDOR
 - APPROXIMATE LOCATION OF FUTURE MORRISTON BYPASS
 - APPROXIMATE LICENCE BOUNDARY
 - PROPERTY PARCELS
 - UNEVALUATED WETLAND
 - EVALUATED WETLAND (NO SIGNIFICANCE)
 - PROVINCIALY SIGNIFICANT WETLAND (PSW)
 - WATERBODY
 - WOODED AREA
 - BUILT-UP



NOTE(S)
1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)
1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. IMAGERY CREDITS: SOURCES: ESRI, HERE, GARMIN, INTERMAP, INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT
CBM AGGREGATES, A DIVISION OF ST. MARYS CEMENT INC. (CANADA)

PROJECT
AGGREGATE RESOURCE EVALUATION
SAFARIK PIT, PUSLINCH, ONTARIO

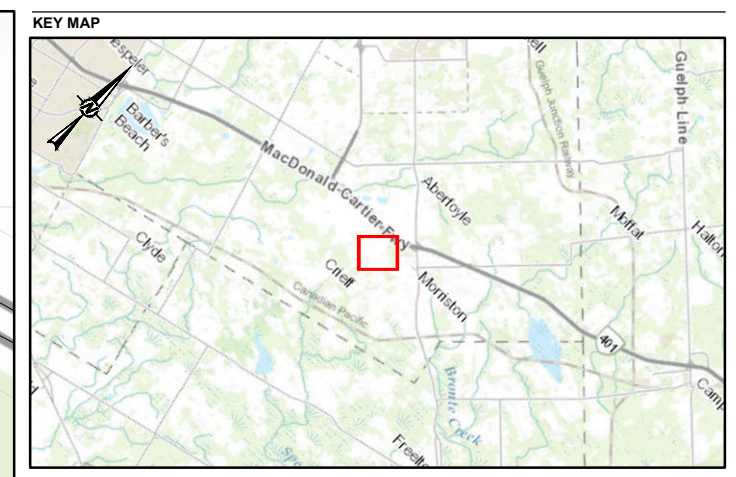
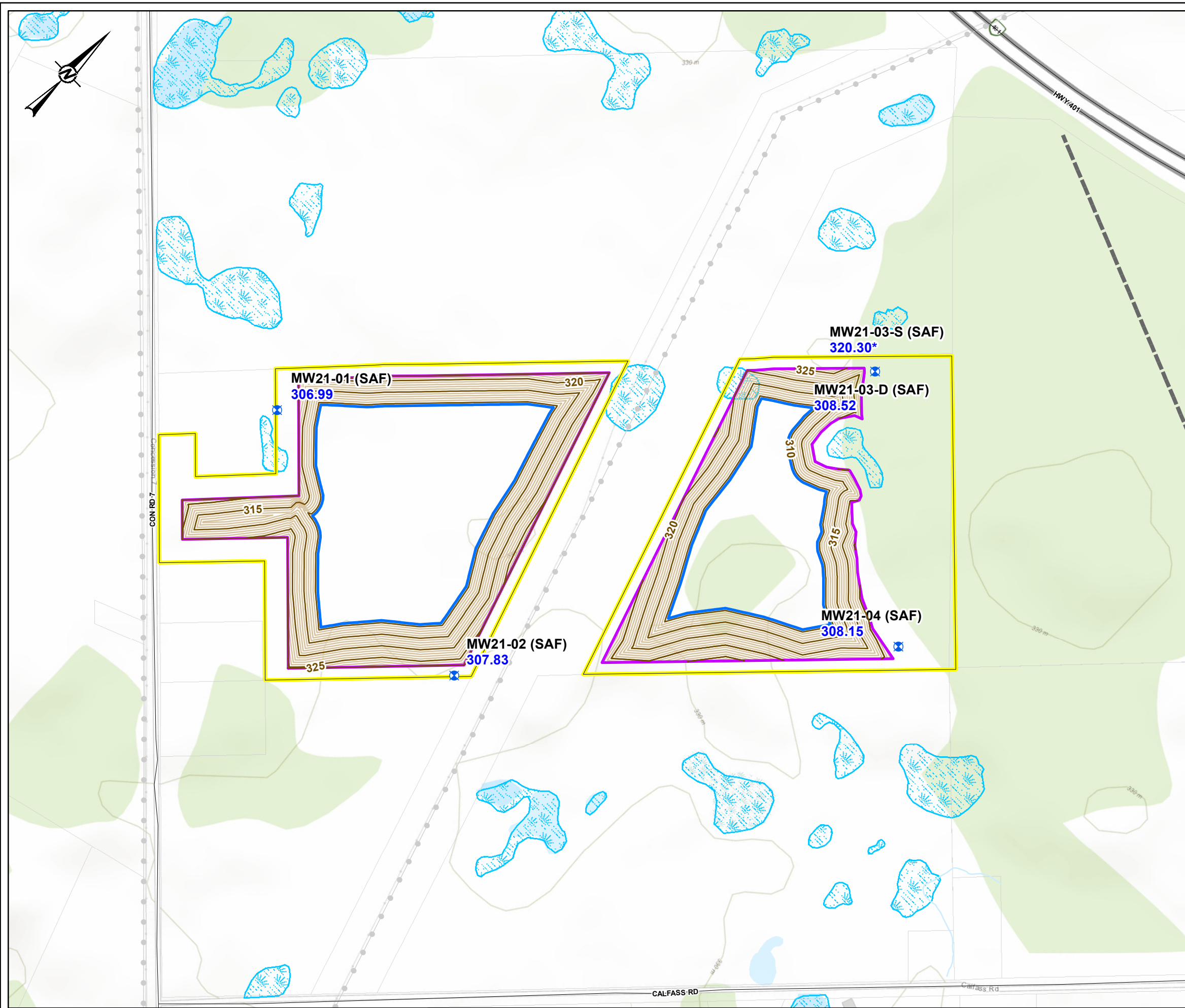
TITLE
LOCATION MAP

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| CONSULTANT | YYYY-MM-DD | 2026-02-26 |
| | DESIGNED | --- |
| | PREPARED | AR |
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| | APPROVED | --- |

PROJECT NO. CA-GLD-21476582 CONTROL 0006 REV. A FIGURE 1

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SCALE 1:300,000

LEGEND

- MONITORING WELL LOCATION AND DESIGNATION
- CONTOUR (5 m INTERVAL)
- CONTOUR (1 m INTERVAL)
- ABOVE WATER EXTRACTION LIMIT
- BELOW WATER EXTRACTION LIMIT
- ROADWAY
- WATERCOURSE
- UTILITY CORRIDOR
- APPROXIMATE LOCATION OF FUTURE MORRISTON BYPASS
- APPROXIMATE LICENCE BOUNDARY
- PROPERTY PARCELS
- UNEVALUATED WETLAND
- WATERBODY (APPROX. ELEVATION NOTED IN mASL)
- 308.15** MAXIMUM WATER TABLE ELEVATION (MASL) - AUGUST 9, 2024
- PERCHED CONDITION INFERRED AT MW21-03-S (SAF)

0 75 150 300
1:5,000 METRES

NOTE(S)
1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)
1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
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CLIENT
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PROJECT
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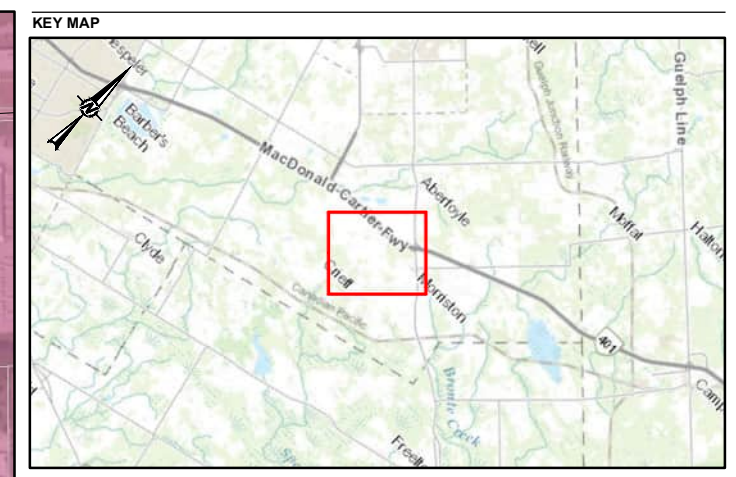
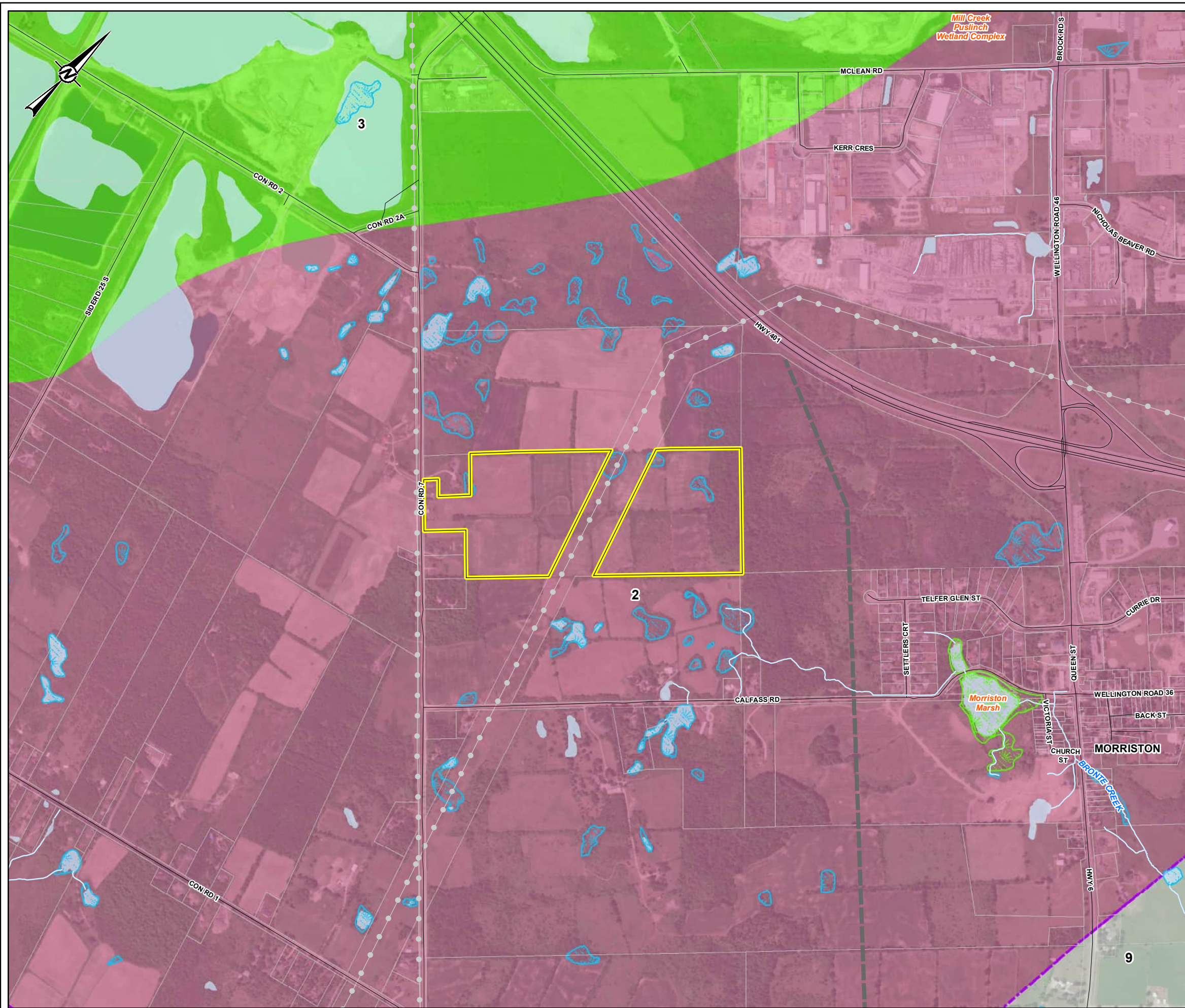
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PROJECT NO. CA-GLD-21476582 CONTROL 0001 REV. A FIGURE 2

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SCALE 1:300,000

LEGEND

- WATERCOURSE
- ROADWAY
- UTILITY CORRIDOR
- APPROXIMATE LOCATION OF FUTURE MORRISTON BYPASS
- APPROXIMATE LICENCE BOUNDARY
- PROPERTY PARCELS
- UNEVALUATED WETLAND
- EVALUATED WETLAND (NO SIGNIFICANCE)
- PROVINCIALLY SIGNIFICANT WETLAND (PSW)
- WATERBODY (APPROX. ELEVATION NOTED IN MASL)

PHYSIOGRAPHY

- PHYSIOGRAPHIC REGION BOUNDARY
- 9: LIMESTONE PLAINS
- 3: SPILLWAYS
- 2: TILL MORAINES

0 125 250 500
1:12,500 METRES

NOTE(S)
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3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N
4. PHYSIOGRAPHY: [HTTPS://SERVICES.ARCGIS.COM/IBZPB6ONXY4MCIEJ/ARCGIS/REST/SERVICES/MRD228_ON_PHYSIOGRAPHY/FEATURESERVER](https://services.arcgis.com/IBZPB6ONXY4MCIEJ/ARCGIS/REST/services/MRD228_ON_PHYSIOGRAPHY/FEATURESERVER)

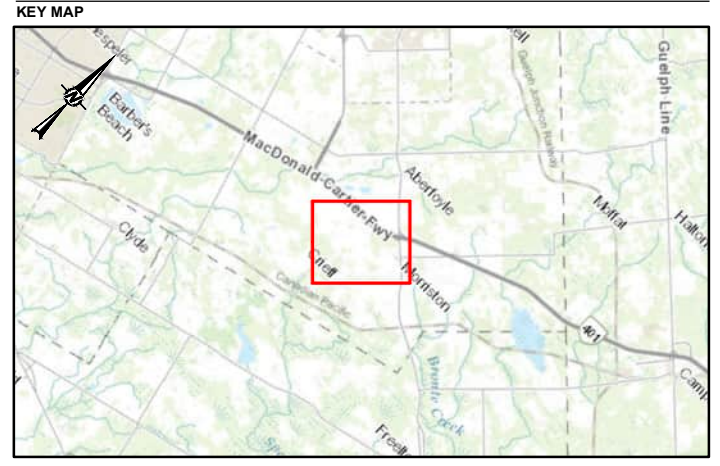
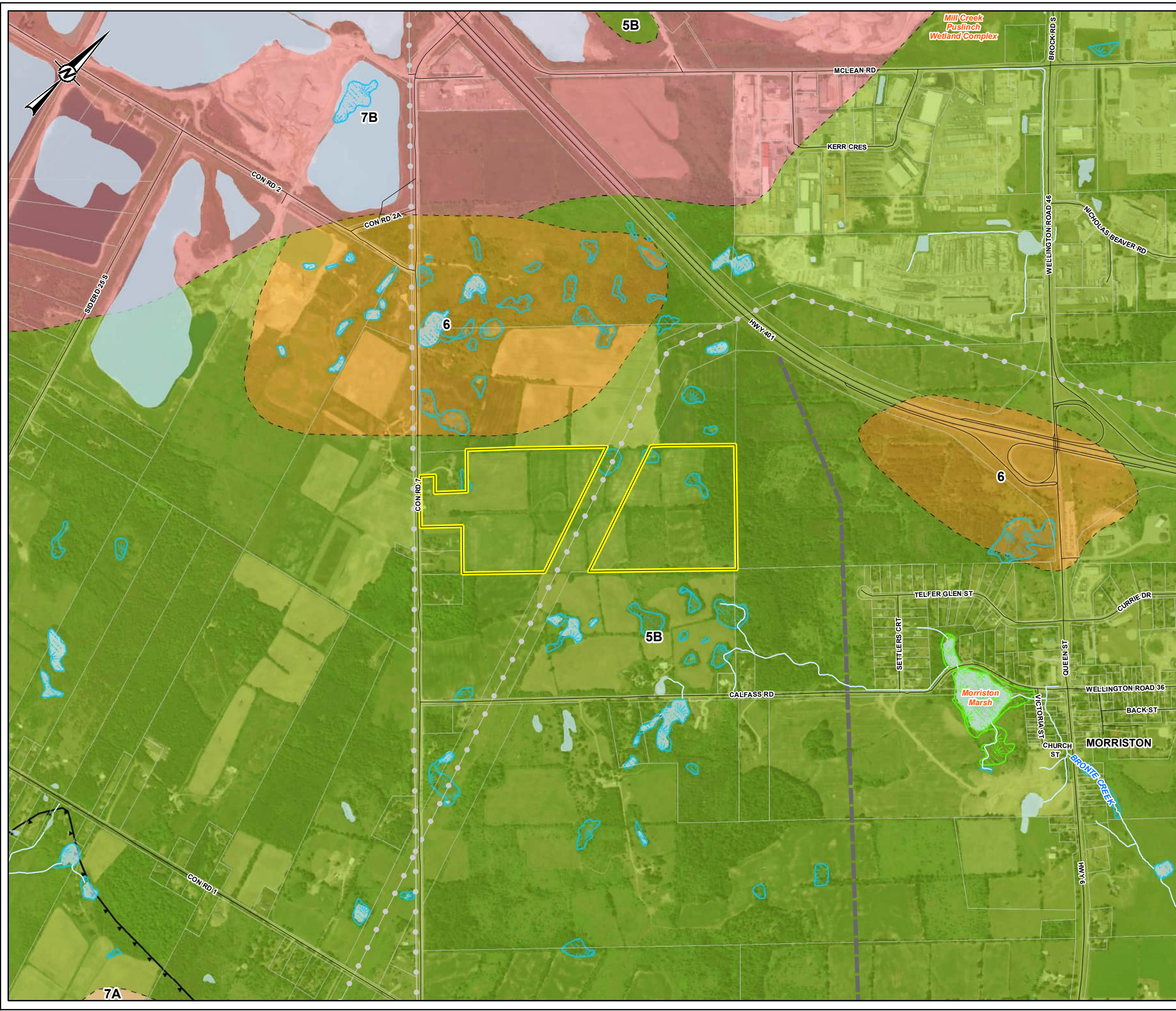
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PROJECT
AGGREGATE RESOURCE EVALUATION
SAFARIK PIT, PUSLINCH, ONTARIO

TITLE
PHYSIOGRAPHY

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PROJECT NO. CA-GLD-21476582 CONTROL 0001 REV. A FIGURE 3



SCALE 1:300,000

LEGEND

- WATERCOURSE
- ROADWAY
- UTILITY CORRIDOR
- APPROXIMATE LOCATION OF FUTURE MORRISTON BYPASS
- APPROXIMATE LICENCE BOUNDARY
- PROPERTY PARCELS
- UNEVALUATED WETLAND
- EVALUATED WETLAND (NO SIGNIFICANCE)
- PROVINCIAL SIGNIFICANT WETLAND (PSW)
- WATERBODY (APPROX. ELEVATION NOTED IN MASL)

SURFICIAL GEOLOGY (MNDM, 2003)

- ICE-CONTACT SLOPE
- APPROXIMATE/ASSUMED CONTACT
- 5B: STONE-POOR, CARBONATE-DERIVED SILTY TO SANDY TILL
- 6: ICE-CONTACT STRATIFIED DEPOSITS
- 7A: SANDY DEPOSITS
- 7B: GRAVELLY DEPOSITS

0 125 250 500
1:12,500 METRES

NOTE(S)
1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)
1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. IMAGERY CREDITS: SOURCES: ESRI, HERE, GARMIN, INTERMAP, INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N
4. SURFICIAL GEOLOGY: [HTTPS://SERVICES2.ARCGIS.COM/ZV30C2FZ0SGV7IP/ARCGIS/REST/SERVICES/SURFICIALGEOLOGYMRD128REV/FEATURESERVER](https://services2.arcgis.com/ZV30C2FZ0SGV7IP/ARCGIS/REST/SERVICES/SURFICIALGEOLOGYMRD128REV/FEATURESERVER)

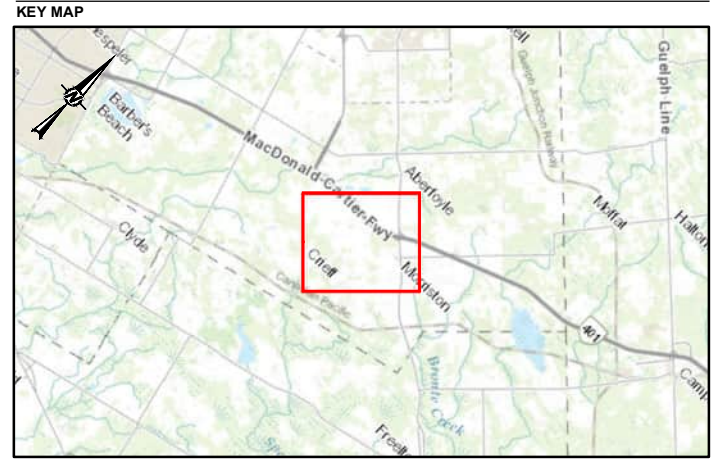
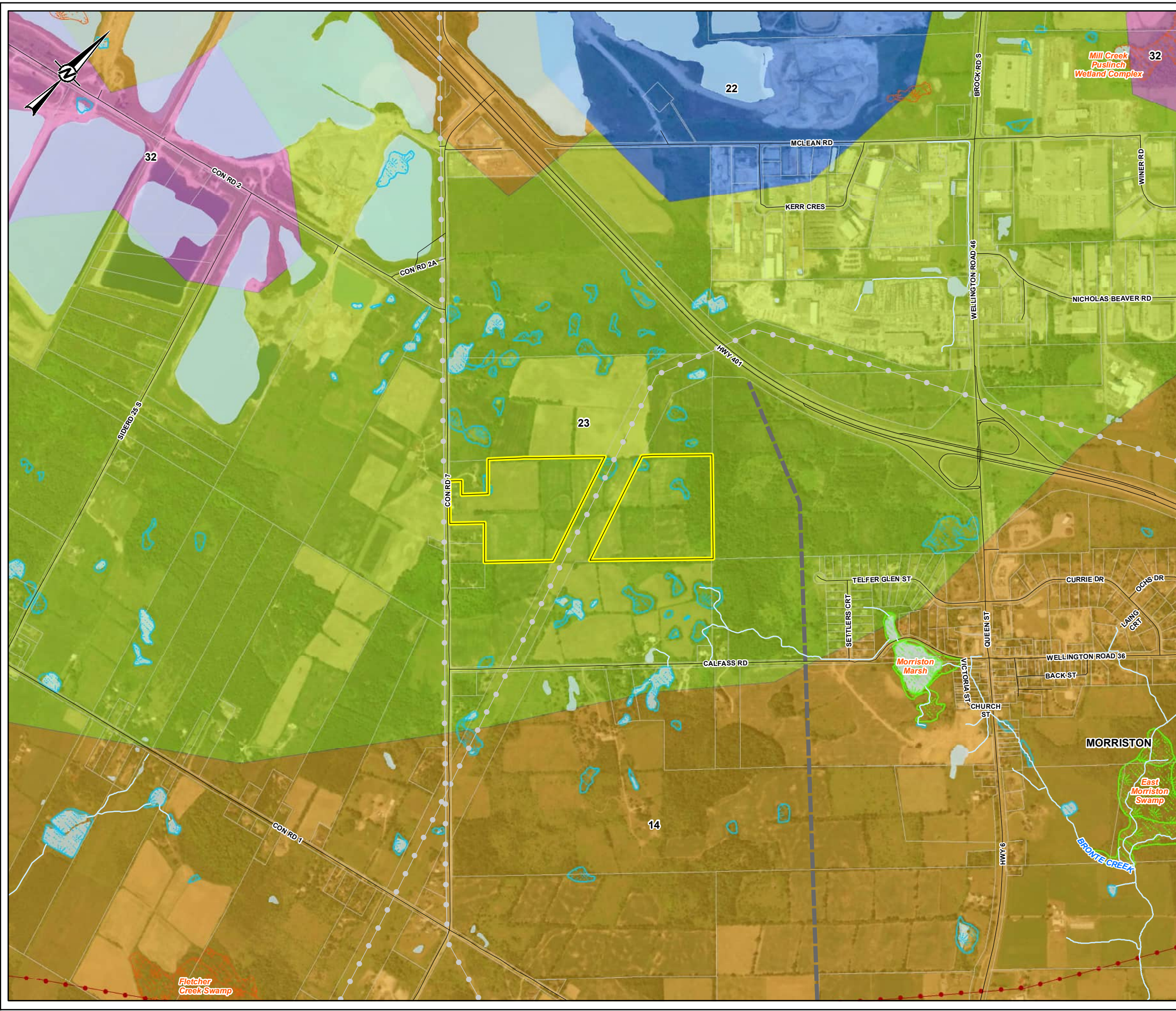
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PROJECT
AGGREGATE RESOURCE EVALUATION SAFARIK PIT, PUSLINCH, ONTARIO

TITLE
SURFICIAL GEOLOGY

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| | APPROVED | --- |

PROJECT NO. CA-GLD-21476582 CONTROL 0001 REV. A FIGURE 4



SCALE 1:300,000

LEGEND

- WATERCOURSE
- ROADWAY
- UTILITY CORRIDOR
- APPROXIMATE LOCATION OF FUTURE MORRISTON BYPASS
- APPROXIMATE LICENCE BOUNDARY
- PROPERTY PARCELS
- UNEVALUATED WETLAND
- EVALUATED WETLAND (NO SIGNIFICANCE)
- PROVINCIALY SIGNIFICANT WETLAND (PSW)
- WATERBODY (APPROX. ELEVATION NOTED IN MASL)

QUATERNARY GEOLOGY (OGS, 1997)

- TREND OF END MORAINES CREST
- GLACIOFLUVIAL ICE-CONTACT DEPOSITS
- GLACIOFLUVIAL OUTWASH DEPOSITS
- ORGANIC DEPOSITS
- WENTWORTH TILL

0 250 500 1,000
1:15,000 METRES

NOTE(S)
1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)
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SOURCE: ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N
4. QUATERNARY GEOLOGY: Y:\ONTARIO\MND\MEDS\IEDS014-REV\IEDS014-REV\GIS_DATA\QUATERNARY\GEOLOGY_LL.SHP

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PROJECT
AGGREGATE RESOURCE EVALUATION
SAFARIK PIT, PUSLINCH, ONTARIO

TITLE
QUATERNARY GEOLOGY

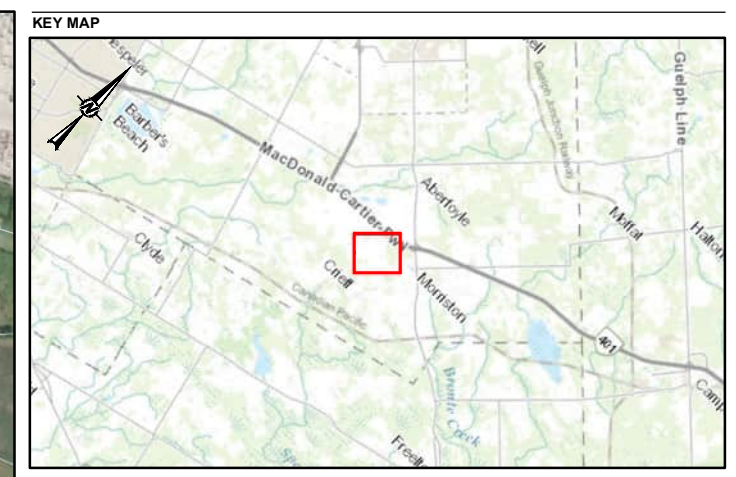
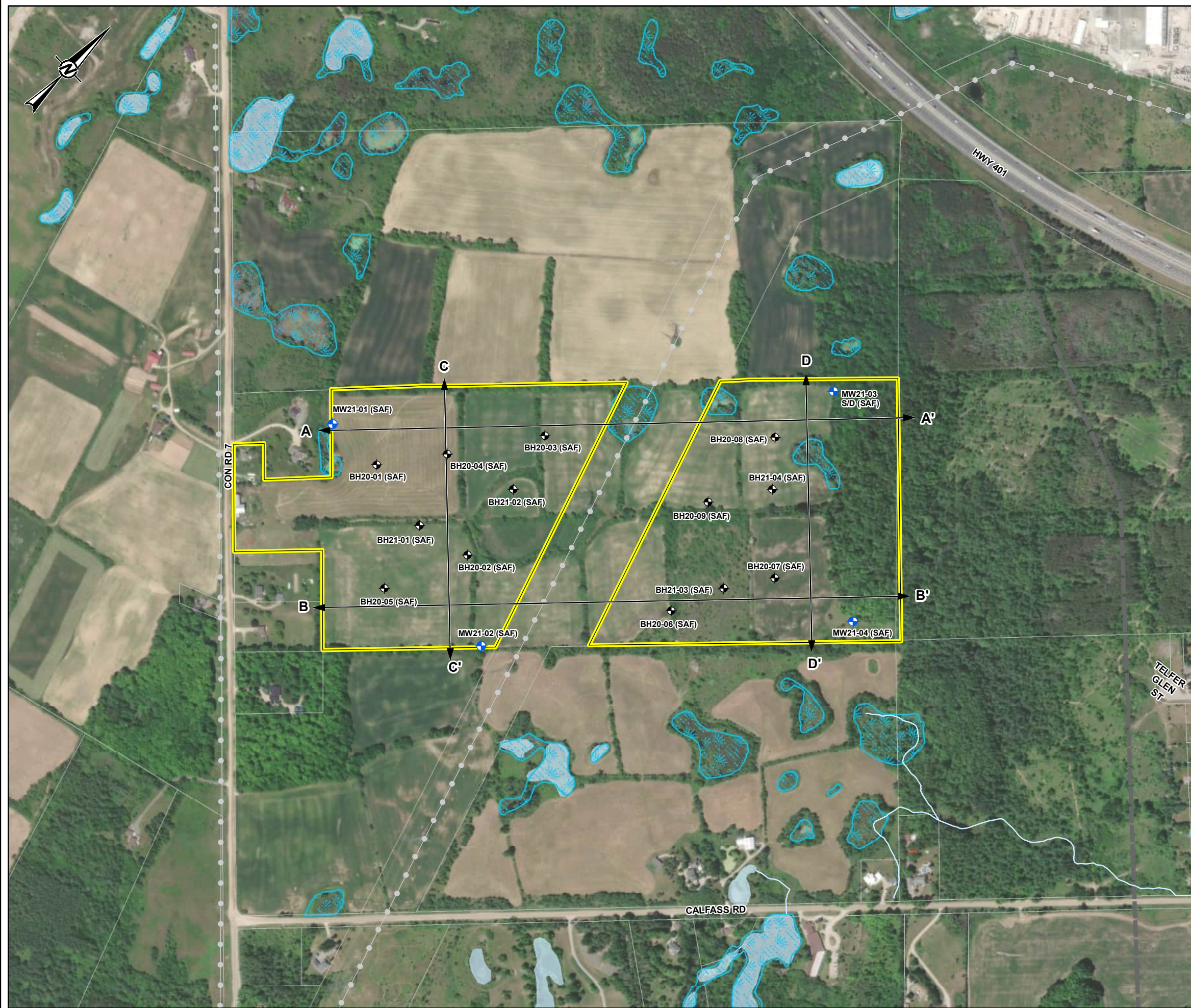
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| | REVIEWED | --- |
| | APPROVED | --- |

PROJECT NO. CA-GLD-21476582 CONTROL 0001 REV. A FIGURE 5

P:\14_H\Projects\2021\11-23\2021-00 Newbasin Pit Expansion\14_Tech\14_03 Data\Map\Aggregate Resource Report

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

P:\TM\H\Projects\2021\11-2382-00 Newbarr Pit Expansion\14_Tech\14.03 Data\Map\Aggregate Resource Report



SCALE 1:300,000

- LEGEND**
- BOREHOLE LOCATION AND DESIGNATION
 - MONITORING WELL LOCATION AND DESIGNATION
 - WATERCOURSE
 - UTILITY CORRIDOR
 - CROSS-SECTION LINES
 - APPROXIMATE LOCATION OF FUTURE MORRISTON BYPASS
 - APPROXIMATE LICENCE BOUNDARY
 - PROPERTY PARCELS
 - UNEVALUATED WETLAND
 - WATERBODY



NOTE(S)
1. ALL LOCATIONS ARE APPROXIMATE

REFERENCE(S)
1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO
2. IMAGERY CREDITS: SOURCES: ESRI, HERE, GARMIN, INTERMAP, INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), (C) OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
SOURCE: ESRI, MAXAR, EARTHSTAR GEOGRAPHICS, AND THE GIS USER COMMUNITY
3. COORDINATE SYSTEM: NAD 1983 UTM ZONE 17N

CLIENT
CBM AGGREGATES, A DIVISION OF ST. MARYS CEMENT INC. (CANADA)

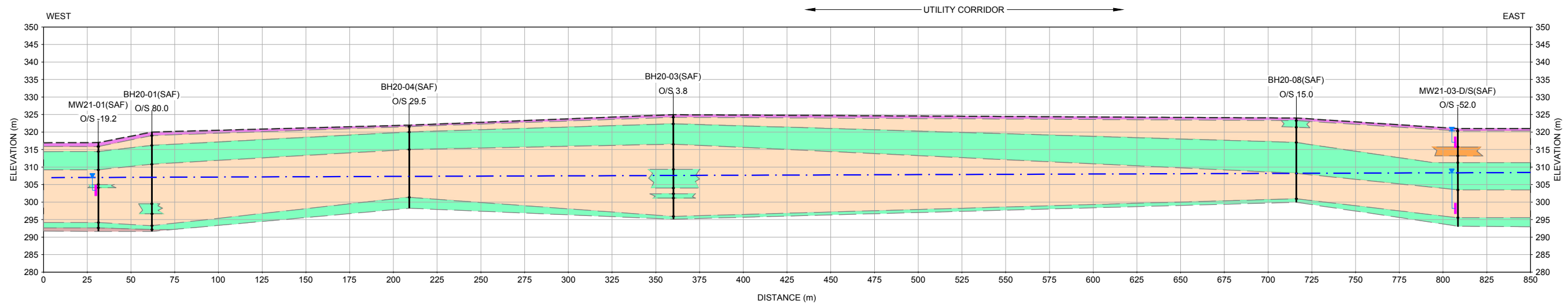
PROJECT
AGGREGATE RESOURCE EVALUATION
SAFARIK PIT, PUSLINCH, ONTARIO

TITLE
SITE PLAN

| | | |
|------------|------------|------------|
| CONSULTANT | YYYY-MM-DD | 2026-02-26 |
| | DESIGNED | --- |
| | PREPARED | AR |
| | REVIEWED | --- |
| | APPROVED | --- |

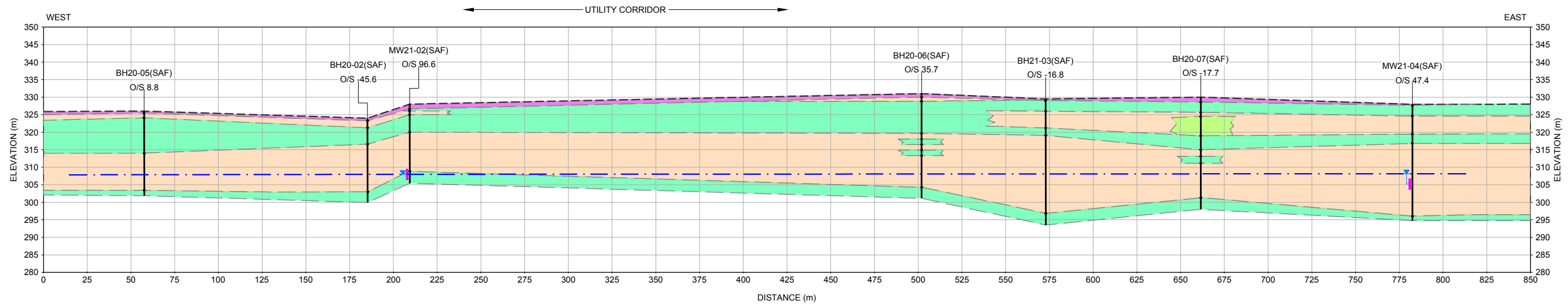
PROJECT NO. CA-GLD-21476582 CONTROL 0001 REV. A FIGURE 6

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B



HORIZ. SCALE 1:2500
VERT. SCALE 1:1250

A CROSS SECTION A-A'



HORIZ. SCALE 1:2500
VERT. SCALE 1:1250

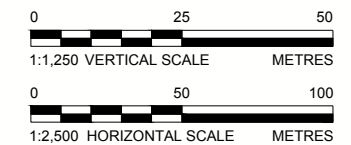
B CROSS SECTION B-B'

REFERENCE(S)
1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO.

NOTE(S)
1. ALL UNITS ARE IN METRES UNLESS OTHERWISE NOTED.

LEGEND

| | | | |
|---------------|------------------------------|------------------|--|
| --- | ASSUMED GROUND SURFACE | - - - | INTERPRETED CHANGE IN STRATIGRAPHIC UNIT |
| [Green] | TILL | - . - . - | INTERPRETED WATER TABLE ELEVATION (AUGUST 8, 2024) |
| [Orange] | SAND/ GRAVEL/ COBBLE | ▼ | WATER LEVEL (AUGUST 8, 2024) |
| [Purple] | TOPSOIL | MW21-03-D/S(SAF) | BOREHOLE NUMBER (DEEP/ SHALLOW) |
| [Brown] | BEDROCK | O/S -21.3 | OFFSET FROM PROFILE LINE + NORTH OF PROFILE LINE - SOUTH OF PROFILE LINE |
| [Light Green] | SILT, SOME CLAY TO CLAYEY | — — | SCREEN |
| [Light Green] | SILTY CLAYEY SAND (COHESIVE) | — — | BOREHOLE |



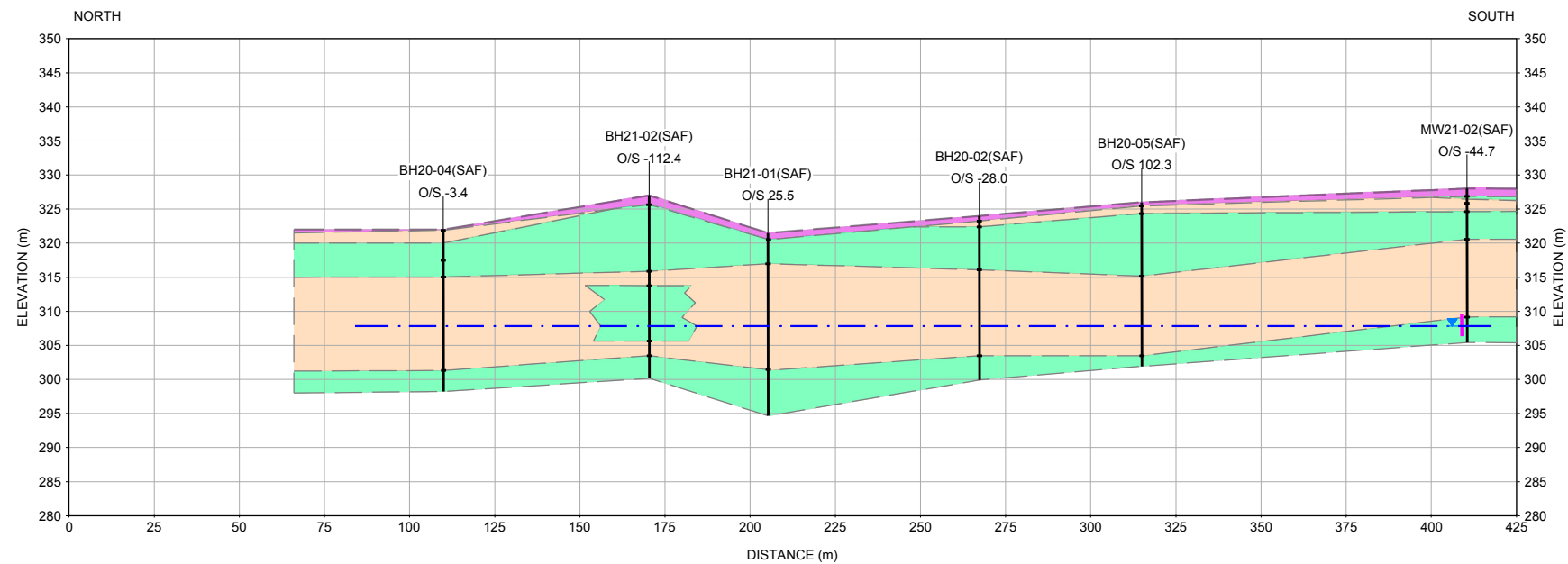
CLIENT
CBM AGGREGATES, A DIVISION OF ST. MARYS CEMENT INC.
(CANADA)

| | | | |
|------------|-----|------|------------|
| CONSULTANT | WSP | DATE | 2026-02-26 |
| DESIGNED | | | |
| PREPARED | | INS | |
| REVIEWED | | | |
| APPROVED | | | |

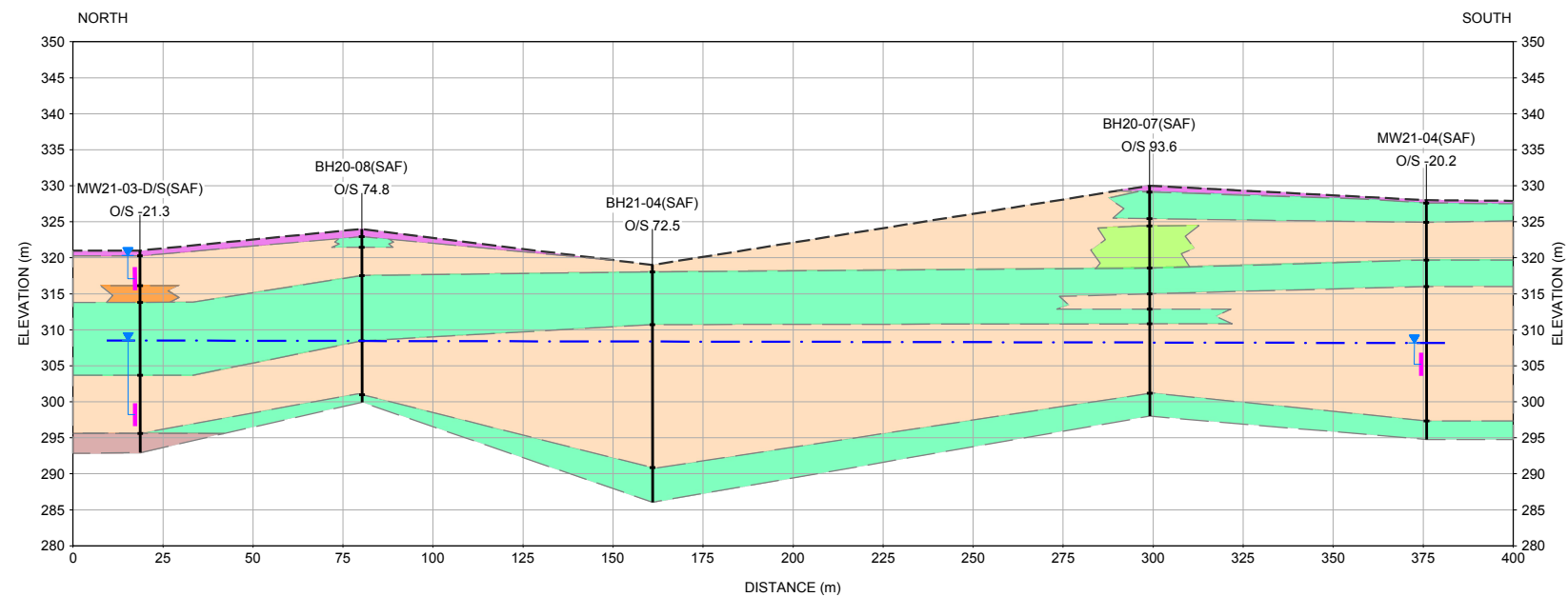
PROJECT
AGGREGATE RESOURCE EVALUATION
SAFARIK PIT, PUSLINCH, ONTARIO

TITLE
GEOLOGICAL CROSS-SECTIONS A-A' AND B-B'

| | | | |
|-----------------|---------|------|--------|
| PROJECT NO. | CONTROL | REV. | FIGURE |
| CA-GLD-21476582 | 0001 | A | 7 |



HORIZ. SCALE 1:2000
VERT. SCALE 1:1000



HORIZ. SCALE 1:2000
VERT. SCALE 1:1000

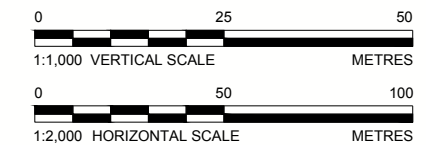
REFERENCE(S)
1. CONTAINS INFORMATION LICENSED UNDER THE OPEN GOVERNMENT LICENCE - ONTARIO.

NOTE(S)
1. ALL UNITS ARE IN METRES UNLESS OTHERWISE NOTED.

LEGEND

- ASSUMED GROUND SURFACE
- INTERPRETED CHANGE IN STRATIGRAPHIC UNIT
- INTERPRETED WATER TABLE ELEVATION (AUGUST 8, 2024)
- WATER LEVEL (AUGUST 8, 2024)
- MW21-03-D/S(SAF) BOREHOLE NUMBER (DEEP/ SHALLOW)
- O/S -21.3 ← OFFSET FROM PROFILE LINE
+ NORTH OF PROFILE LINE
- SOUTH OF PROFILE LINE
- SCREEN
- BOREHOLE

- TILL
- SAND/ GRAVEL/ COBBLE
- TOPSOIL
- BEDROCK
- SILT, SOME CLAY TO CLAYEY
- SILTY CLAYEY SAND (COHESIVE)



CLIENT
CBM AGGREGATES, A DIVISION OF ST. MARYS CEMENT INC.
(CANADA)

CONSULTANT
wsp

| | |
|----------|------------|
| DATE | 2026-02-26 |
| DESIGNED | |
| PREPARED | INS |
| REVIEWED | |
| APPROVED | |

PROJECT
AGGREGATE RESOURCE EVALUATION
SAFARIK PIT, PUSLINCH, ONTARIO

TITLE
GEOLOGICAL CROSS-SECTIONS C-C' AND D-D'

| | | | |
|-----------------|---------|------|--------|
| PROJECT NO. | CONTROL | REV. | FIGURE |
| CA-GLD-21476582 | 0001 | A | 8 |

APPENDIX A

Borehole Logs

PROJECT: 20397048 (1000)
 LOCATION: N 4810047.80; E 569619.20

RECORD OF BOREHOLE: BH20-01(SAF)

SHEET 1 OF 3
 DATUM: UTM Zone 17T

BORING DATE: November 9, 2020

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275_CONCESSION_ROAD_7_PUSLINCH_ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | |
|--------------------|---|--|-------------|-----------------|--------|--|----------------------------------|------------------------|--|---------------------------------|---|-----------------------|--|-------------------------|--------------------------------------|--|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH Cu, kPa | | | | WATER CONTENT PERCENT | | | | |
| | | | | | | | 20 40 60 80 | | | | 10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³ | | | | | |
| | | | | | | | nat V. + Q - ● rem V. ⊕ U - ○ | | | | Wp ----- W ----- WI | | | | | |
| 0 | | GROUND SURFACE | | 320.00 | | | | | | | | | | | | |
| | | TOPSOIL - SILTY CLAYEY SAND, organics; black, no odour, no staining; non-cohesive, moist | | 0.00 | | | | | | | | | | | | |
| 1 | | SAND and GRAVEL, some silt, some cobbles; golden brown, no odour, no staining; non-cohesive, moist | | 319.09 0.91 | 1 | DO | | | | | | | | | | |
| 2 | | | | | 2 | DO | | | | | | | | | | |
| 3 | | SILTY SAND and GRAVEL, some cobbles; brown, no odour, no staining | | 317.56 2.44 | 3 | DO | | | | | | | | | | |
| 4 | | | | | 4 | DO | | | | | | | | | | |
| 5 | Rotasonic Borehole size 150 mm; Core size 114 mm | | | | | | | | | | | | | | | |
| 6 | | SAND and GRAVEL, some silt, some cobbles; brown, no odour, no staining; non-cohesive, moist | | 314.50 5.50 | | | | | | | | | | | | |
| 7 | | | | | 5 | DO | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | 6 | DO | | | | | | | | | | |
| 10 | | CONTINUED NEXT PAGE | | | | | | | | | | | | | | |

PROJECT: 20397048 (1000)
 LOCATION: N 4810047.80; E 569619.20

RECORD OF BOREHOLE: BH20-01(SAF)

SHEET 2 OF 3
 DATUM: UTM Zone 17T

BORING DATE: November 9, 2020

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION |
|--------------------|---|--|-------------|-----------------|--------|--|------------|------------------------|----|---------------------------------|----|-----------------------|----------|-------------------------|--------------------------------------|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH Cu, kPa | | WATER CONTENT PERCENT | | WATER CONTENT PERCENT | | | |
| | | | | | | | | 20 | 40 | 60 | 80 | nat V. + | rem V. ⊕ | | |
| 10 | | -- CONTINUED FROM PREVIOUS PAGE -- | | | | | | | | | | | | | |
| 11 | | SAND and GRAVEL, some silt, some cobbles; brown, no odour, no staining; non-cohesive, moist | | | 7 | DO | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | |
| 13 | | | | | 8 | DO | | | | | | | | | |
| 14 | | | | | | | | | | | | | | | |
| 15 | Rotasonic Borehole size 150 mm; Core size 114 mm | Sandy Cobbley GRAVEL; brown/grey, no odour, no staining; non-cohesive, wet | | 305.37 14.63 | | | | | | | | | | | |
| 16 | | | | | 9 | DO | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | |
| 18 | | | | | 10 | DO | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | |
| 20 | | Sandy Cobbley GRAVEL, some silt; brown/grey, no odour, no staining (TILL); non-cohesive, wet | | 300.80 19.20 | 11 | DO | | | | | | | | | |
| | | CONTINUED NEXT PAGE | | | | | | | | | | | | | |

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275 CONCESSION ROAD 7_PUSLINCHE ONTARIO\02 DATA\GINT\4275 CONCESSION ROAD 7_PUSLINCHE ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

PROJECT: 20397048 (1000)
 LOCATION: N 4810047.80; E 569619.20

RECORD OF BOREHOLE: BH20-01(SAF)

SHEET 3 OF 3
 DATUM: UTM Zone 17T

BORING DATE: November 9, 2020

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275 CONCESSION ROAD 7_PUSLINCH_ONTARIO\02_DATA\GINT\4275 CONCESSION ROAD 7_PUSLINCH_ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | |
|--------------------|---------------|--|-------------|-----------------|--------|------|--|----------------|--|---------------|---------------------------------|-----------------------|----|---|-------------------------|--------------------------------------|----|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH | | | | WATER CONTENT PERCENT | | | | | |
| | | | | | | | | Cu, kPa | | nat V. rem V. | + ⊕ | - ⊙ | Wp | W | | | Wi |
| 20 | | --- CONTINUED FROM PREVIOUS PAGE --- Sandy Cobbley GRAVEL, some silt; brown/grey, no odour, no staining (TILL); non-cohesive, wet | | 299.27 | 11 | DO | | | | | | | | | | | |
| 21 | | SILTY SAND; grey, no odour, no staining (TILL); cohesive, w>PL | | 20.73 | 12 | DO | | | | | | | | | | | |
| 24 | | SILTY SAND and GRAVEL, some cobbles; brown, no odour, no staining; non-cohesive, wet | | 23.77 | 14 | DO | | | | | | | | | | | |
| 26 | | - Silty Sand and Gravel (TILL) lense between depths of 25.91 m and 26.21 m | | | 15 | DO | | | | | | | | | | | |
| 27 | | SILT CLAY; grey, no odour, no staining (TILL); non-cohesive | | 26.82 | 16 | DO | | | | | | | | | | | |
| 28 | | DOLOSTONE (BEDROCK) | | 27.74 | | | | | | | | | | | | | |
| 28 | | END OF BOREHOLE | | 28.35 | | | | | | | | | | | | | |

DEPTH SCALE
 1 : 50



LOGGED: AL
 CHECKED: GWS

RECORD OF BOREHOLE: BH20-02(SAF)

BORING DATE: November 10, 2020

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275_CONCESSION_ROAD_7_PUSLINC_H ONTARIO\02_DATA\GINT\4275_CONCESSION_ROAD_7_PUSLINC_H ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | |
|--------------------|---------------|--|-------------|-----------------|--------|--|----------------------------------|------------------------|----|---------------------------------|-------------------------|-----------------------|--|-------------------------|--------------------------------------|--|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH Cu, kPa | | | | WATER CONTENT PERCENT | | | | |
| | | | | | | | 20 | 40 | 60 | 80 | | | | | | |
| | | | | | | | nat V. + Q - ● rem V. ⊕ U - ○ | | | | Wp ----- W ----- WI | | | | | |
| 0 | | GROUND SURFACE | | 324.00 | | | | | | | | | | | | |
| | | TOPSOIL - SILTY SAND, organics; black, no odour, no staining; non-cohesive, moist | | 0.00 | | | | | | | | | | | | |
| | | SILTY SAND and GRAVEL; brown, no odour, no staining; non-cohesive, moist | | 323.70 | 1 | DO | | | | | | | | | | |
| 1 | | Sandy GRAVEL, some cobbles, some silt; brown, no odour, no staining; non-cohesive, moist | | 323.09 | 2 | DO | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| 3 | | | | | 3 | DO | | | | | | | | | | |
| 4 | | SILTY SAND and GRAVEL, some cobbles; brown, no odour, no staining; non-cohesive, moist | | 320.04 | 4 | DO | | | | | | | | | | |
| 5 | | | | | 5 | DO | | | | | | | | | | |
| 6 | | | | | 6 | DO | | | | | | | | | | |
| 7 | | | | | 7 | DO | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | |
| 9 | | | | | 8 | DO | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | |

CONTINUED NEXT PAGE

RECORD OF BOREHOLE: BH20-02(SAF)

BORING DATE: November 10, 2020

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275 CONCESSION ROAD 7_PUSLINCH_ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | | |
|--------------------|---|---|---------------------|-----------------|--------|--|------------|----------------|--|---------------------------------|--|-----------------------|--|-------------------------|--------------------------------------|-------|--|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH | | | | WATER CONTENT PERCENT | | | | | |
| | | | | | | | | Cu, kPa | | nat V. rem V. | | + | | | | Q - U | |
| | | -- CONTINUED FROM PREVIOUS PAGE -- | | | | | | | | | | | | | | | |
| 10 | Rotasonic Borehole size 150 mm; Core size 114 mm | SILTY Gravelly SAND, some cobbles; brown/grey, no odour, no staining; non-cohesive, moist | | 313.84 10.06 | 9 | DO | | | | | | | | | | | |
| 12 | | SILTY GRAVEL, some cobbles; grey, no odour, no staining; non-cohesive, moist | | 312.42 11.58 | 10 | DO | | | | | | | | | | | |
| 14 | | SILTY SAND and GRAVEL, some cobbles; grey/brown, no odour, no staining; non-cohesive, moist | | 310.59 13.41 | 11 | DO | | | | | | | | | | | |
| 15 | | Gravelly SAND, some cobbles, some silt; brown, no odour, no staining; non-cohesive, moist | | 309.37 14.63 | 12 | DO | | | | | | | | | | | |
| 17 | | Cobbly SAND and GRAVEL; brown/red, no odour, no staining; non-cohesive, wet | | 307.54 16.46 | 13 | DO | | | | | | | | | | | |
| 18 | | SILTY SAND and GRAVEL, some cobbles; grey, no odour, no staining; non-cohesive, wet | | 306.02 17.98 | 14 | DO | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | 15 | DO | | | | | | | | | | |
| | | | CONTINUED NEXT PAGE | | | | | | | | | | | | | | |

PROJECT: 20397048 (1000)
 LOCATION: N 4810099.90; E 569815.87

RECORD OF BOREHOLE: BH20-02(SAF)

SHEET 3 OF 3
 DATUM: UTM Zone 17T

BORING DATE: November 10, 2020

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275_CONCESSION_ROAD_7_PUSLINCH_ONTARIO\02_DATA\GINT\4275_CONCESSION_ROAD_7_PUSLINCH_ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | | |
|--------------------|---|---|-------------|-----------------|--------|--|------------|----------------|--|---------------------------------|--|-----------------------|--|-------------------------|--------------------------------------|-------|--|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH | | | | WATER CONTENT PERCENT | | | | | |
| | | | | | | | | Cu, kPa | | nat V. rem V. | | + | | | | Q - U | |
| 20 | Rotasonic Borehole size 150 mm; Core size 114 mm | -- CONTINUED FROM PREVIOUS PAGE -- | | | | | | | | | | | | | | | |
| | | SILTY SAND and GRAVEL, some cobbles; grey, no odour, no staining; non-cohesive, wet | | | 15 | DO | | | | | | | | | | | |
| | | GRAVEL and SAND; brown, no odour, no staining (TILL); non-cohesive, wet | | 303.27 20.73 | | | | | | | | | | | | | |
| 21 | | SILT CLAY; brown, no odour, no staining (TILL); cohesive, w>PL | | 302.97 21.03 | | | | | | | | | | | | | |
| 22 | | | | 16 | DO | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | 17 | DO | | | | | | | | | | | | |
| 24 | | END OF BOREHOLE | | 299.92 24.08 | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |

RECORD OF BOREHOLE: BH20-03(SAF)

BORING DATE: November 10, 2020

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275_CONCESSION_ROAD_7_PUSLINCH_ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION |
|-----------------------|---------------|--|-------------|-----------------|--------|--|------------|----------------|---------------------|---------------------------------|---|----|--|-------------------------|--------------------------------------|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH | | WATER CONTENT PERCENT | | | | | |
| | | | | | | | | Cu, kPa | nat V. + rem V. ⊕ ⊙ | Wp | W | Wi | | | |
| 0 | | GROUND SURFACE | | 325.00 | | | | | | | | | | | |
| | | TOPSOIL - CLAYEY SAND, organics, some cobbles; brown, no odour, no staining (TILL); non-cohesive, moist | | 0.00 | | | | | | | | | | | |
| 1 | | SAND and GRAVEL, some silt, some cobbles; brown, no odour, no staining; non-cohesive, moist | | 324.09 0.91 | 1 | DO | | | | | | | | | |
| 2 | | SILTY SAND and GRAVEL; brown, no odour, no staining (TILL); non-cohesive, moist | | 323.48 1.52 | 2 | DO | | | | | | | | | |
| 3 | | | | | 3 | DO | | | | | | | | | |
| 4 | | SAND and GRAVEL, some cobbles; brown, no odour, no staining (TILL); non-cohesive, moist | | 321.04 3.96 | 4 | DO | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | |
| 7 | | SILTY Gravelly SAND, some cobbles; brown, no odour, no staining (TILL); non-cohesive, moist | | 317.99 7.01 | 6 | DO | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | |
| 9 | | SILTY SAND and GRAVEL, some cobbles; brown, no odour, no staining; non-cohesive, moist then wet at a depth of 14.9 m | | 316.47 8.53 | 7 | DO | | | | | | | | | |
| 10 | | CONTINUED NEXT PAGE | | | | | | | | | | | | | |

RECORD OF BOREHOLE: BH20-03(SAF)

BORING DATE: November 10, 2020

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | |
|--------------------|---|--|-------------|-----------------|--------|------|--|----------------|--|---------------|---------------------------------|-----------------------|--|----|-------------------------|--------------------------------------|---|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH | | | | WATER CONTENT PERCENT | | | | | |
| | | | | | | | | Cu, kPa | | nat V. rem V. | | Q - U | | Wp | | | W |
| 10 | | -- CONTINUED FROM PREVIOUS PAGE -- | | | | | | | | | | | | | | | |
| 11 | | SILTY SAND and GRAVEL, some cobbles; brown, no odour, no staining; non-cohesive, moist then wet at a depth of 14.9 m | | | 7 | DO | | | | | | | | | | | |
| 12 | | | | | 8 | DO | | | | | | | | | | | |
| 13 | | | | | 9 | DO | | | | | | | | | | | |
| 14 | | | | | 10 | DO | | | | | | | | | | | |
| 15 | Rotasonic Borehole size 150 mm; Core size 114 mm | | | | | | | | | | | | | | | | |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | SILTY SAND, some cobbles, some gravel; grey, no odour, no staining (TILL); cohesive, w>PL | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| | | CONTINUED NEXT PAGE | | | | | | | | | | | | | | | |

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275_CONCESSION_ROAD_7_PUSLINC_H_ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

RECORD OF BOREHOLE: BH20-03(SAF)

BORING DATE: November 10, 2020

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275 CONCESSION ROAD 7_PUSLINCH ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | |
|-----------------------|---------------|------------------------------------|---|--------------------|--------|------|--|----------------|--|-----------------------------|---------------------------------|---|--|--------------|-------------------------|--------------------------------------|-------------|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH | | | | WATER CONTENT PERCENT | | | | | |
| | | | | | | | | 20 40 60 80 | | nat V. + Q - rem V. ⊕ U - ⊙ | | 10 ⁻⁶ 10 ⁻⁵ 10 ⁻⁴ 10 ⁻³ | | Wp ----- W | | | 10 20 30 40 |
| 20 | | -- CONTINUED FROM PREVIOUS PAGE -- | | | | | | | | | | | | | | | |
| | | | SILTY SAND, some cobbles, some gravel; grey, no odour, no staining (TILL); cohesive, w>PL | | | | 14 | DO | | | | | | | | | |
| 21 | | | SILTY SAND and GRAVEL; brown, no odour, no staining; non-cohesive, moist | 304.00 21.00 | | | 15 | DO | | | | | | | | | |
| 22 | | | SILTY SAND and GRAVEL, some cobbles; brown/grey, no odour, no staining (TILL); non-cohesive, moist then wet at a depth of 23.16 m | 302.44 22.56 | | | 16 | DO | | | | | | | | | |
| 23 | | | SILTY SAND and GRAVEL, some cobbles; grey, no odour, no staining; non-cohesive, wet | 300.92 24.08 | | | 17 | DO | | | | | | | | | |
| 24 | | | Gravelly SAND, some silt; brown, no odour, no staining; non-cohesive, wet | 299.40 25.60 | | | 18 | DO | | | | | | | | | |
| 25 | | | SILTY SAND; golden brown, no odour, no staining; non-cohesive, wet | 297.87 27.13 | | | 19 | DO | | | | | | | | | |
| 26 | | | SILT CLAY; grey, no odour, no staining (TILL); cohesive, w>PL | 295.74 29.26 | | | | | | | | | | | | | |
| 27 | | | END OF BOREHOLE | 295.13 29.87 | | | | | | | | | | | | | |

RECORD OF BOREHOLE: BH20-04(SAF)

BORING DATE: November 11, 2020

GTA-BHS 001 S:\CLIENTS\OTORANTIM_CIMENTOS\4275_CONCESSION_ROAD_7_PUSLINCH_ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | | |
|--------------------|---|---|-------------|-----------------|--------|--|------------|----------------|--|---------------------------------|--|-----------------------|--|-------------------------|--------------------------------------|-------|--|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH | | | | WATER CONTENT PERCENT | | | | | |
| | | | | | | | | Cu, kPa | | nat V. rem V. | | + | | | | Q - U | |
| 0 | | GROUND SURFACE | | 322.00 | | | | | | | | | | | | | |
| 1 | | SILTY SAND and GRAVEL, some cobbles, organics; golden brown, no odour, no staining; non-cohesive, moist | | 0.00 | 1 | DO | | | | | | | | | | | |
| 2 | | SILTY Gravelly SAND, some cobbles; golden brown, no odour, no staining; non-cohesive, moist | | 320.48 1.52 | 2 | DO | | | | | | | | | | | |
| 3 | | SILTY SAND; golden brown, no odour, no staining (TILL); non-cohesive, moist | | 319.56 2.44 | 3 | DO | | | | | | | | | | | |
| 4 | | SAND and GRAVEL, some cobbles; dark brown, no odour, no staining (TILL); non-cohesive, moist | | 317.73 4.27 | 4 | DO | | | | | | | | | | | |
| 5 | Rotasonic Borehole size 150 mm; Core size 114 mm | | | | | | | | | | | | | | | | |
| 6 | | | | | 5 | DO | | | | | | | | | | | |
| 7 | | SILTY SAND and GRAVEL, some cobbles; brown, no odour, no staining; non-cohesive, moist | | 314.99 7.01 | 6 | DO | | | | | | | | | | | |
| 8 | | | | | 7 | DO | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
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RECORD OF BOREHOLE: BH20-04(SAF)

BORING DATE: November 11, 2020

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275 CONCESSION ROAD 7_PUSLINC\ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION |
|--------------------|---|--|-------------|-----------------|--------|--|------------|----|----|---------------------------------|----|------------------|------------------|-------------------------|--------------------------------------|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | 20 | 40 | 60 | 80 | 10 ⁻⁶ | 10 ⁻⁵ | | |
| | | -- CONTINUED FROM PREVIOUS PAGE -- | | | | | | | | | | | | | |
| 10 | | SILTY SAND and GRAVEL, some cobbles; brown, no odour, no staining; non-cohesive, moist | | | 7 | DO | | | | | | | | | |
| 11 | | | | | 8 | DO | | | | | | | | | |
| 12 | | | | | 9 | DO | | | | | | | | | |
| 13 | | | | | 10 | DO | | | | | | | | | |
| 14 | | | | | 10 | DO | | | | | | | | | |
| 15 | Rotasonic Borehole size 150 mm; Core size 114 mm | SILTY GRAVEL; grey, no odour, no staining; non-cohesive, moist then wet at 15.24 m | | 307.37 14.63 | 11 | DO | | | | | | | | | |
| 16 | | Sandy GRAVEL, some cobbles, some silt; reddish brown, no odour, no staining; non-cohesive, wet | | 305.85 16.15 | 12 | DO | | | | | | | | | |
| 17 | | | | | 13 | DO | | | | | | | | | |
| 18 | | | | | 13 | DO | | | | | | | | | |
| 19 | | | | | 14 | DO | | | | | | | | | |
| 20 | | SAND and GRAVEL, some cobbles, some silt; brown, no odour, no staining; non-cohesive, wet | | 302.49 19.51 | 14 | DO | | | | | | | | | |
| | | CONTINUED NEXT PAGE | | | | | | | | | | | | | |

PROJECT: 20397048 (1000)
 LOCATION: N 4810189.19; E 569683.94

RECORD OF BOREHOLE: BH20-04(SAF)

SHEET 3 OF 3
 DATUM: UTM Zone 17T

BORING DATE: November 11, 2020

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275_CONCESSION_ROAD_7_PUSLINCH_ONTARIO\02_DATA\GINT\4275_CONCESSION_ROAD_7_PUSLINCH_ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | |
|--------------------|---|---|-------------|-----------------|--------|--|------------|------------------------|----|---------------------------------|----|-----------------------|------------------|-------------------------|--------------------------------------|------------------|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH Cu, kPa | | WATER CONTENT PERCENT | | WATER CONTENT PERCENT | | | | |
| | | | | | | | | 20 | 40 | 60 | 80 | 10 ⁻⁶ | 10 ⁻⁵ | | | 10 ⁻⁴ |
| 20 | Rotasonic Borehole size 150 mm; Core size 114 mm | -- CONTINUED FROM PREVIOUS PAGE -- | | | | | | | | | | | | | | |
| | | SAND and GRAVEL, some cobbles, some silt; brown, no odour, no staining; non-cohesive, wet | | | 14 | DO | | | | | | | | | | |
| 21 | | Sandy SILT; brown, no odour, no staining (TILL); non-cohesive, wet | | 301.27 20.73 | | | | | | | | | | | | |
| 22 | | | | | 15 | DO | | | | | | | | | | |
| 23 | | | | | 16 | DO | | | | | | | | | | |
| 24 | | END OF BOREHOLE | | 298.23 23.77 | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | |
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RECORD OF BOREHOLE: BH20-05(SAF)

BORING DATE: November 11, 2020

GTA-BHS 001 S:\CLIENTS\OTORANTIM_CIMENTOS\4275 CONCESSION ROAD 7_PUSLINCH ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | | |
|-----------------------|---|--|-------------|--------------------|--------|--|------------|----------------|--|---------------------------------|--|-----------------------|--|-------------------------|--------------------------------------|----|--|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH | | | | WATER CONTENT PERCENT | | | | | |
| | | | | | | | | Cu, kPa | | nat V. + rem V. ⊕ ⊙ | | Wp | | | | Wi | |
| 0 | | GROUND SURFACE | | 326.00 | | | | | | | | | | | | | |
| | | TOPSOIL - SILTY SAND, organics; brown/black, no odour, no staining (TILL); non-cohesive, moist | | 0.00 | | | | | | | | | | | | | |
| 1 | | SILTY SAND and GRAVEL, some cobbles; brown/grey, no odour, no staining; non-cohesive, moist | | 325.39 0.61 | 1 | DO | | | | | | | | | | | |
| 2 | | SILTY SAND and GRAVEL, some cobbles; brown/grey, no odour, no staining (TILL); non-cohesive | | 324.48 1.52 | 2 | DO | | | | | | | | | | | |
| 3 | | | | | 3 | DO | | | | | | | | | | | |
| 4 | | | | | 4 | DO | | | | | | | | | | | |
| 5 | Rotasonic Borehole size 150 mm; Core size 114 mm | | | | 5 | DO | | | | | | | | | | | |
| 6 | | | | | 6 | DO | | | | | | | | | | | |
| 7 | | | | | 7 | DO | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

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RECORD OF BOREHOLE: BH20-05(SAF)

BORING DATE: November 11, 2020

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION |
|--------------------|---------------|--|-------------|-----------------|--------|--|------------|----|----|---------------------------------|----|------------------|------------------|-------------------------|--------------------------------------|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | 20 | 40 | 60 | 80 | 10 ⁻⁶ | 10 ⁻⁵ | | |
| | | -- CONTINUED FROM PREVIOUS PAGE -- | | | | | | | | | | | | | |
| 10 | | SAND and GRAVEL, some cobbles; brown/grey, no odour, no staining (TILL); non-cohesive | | | 7 | DO | | | | | | | | | |
| 11 | | | | | 8 | DO | | | | | | | | | |
| 12 | | SAND and GRAVEL, some cobbles, some silt; brown, no odour, no staining; non-cohesive, moist | | | | | | | | | | | | | |
| | | | | 314.42 | | | | | | | | | | | |
| | | | | 11.58 | | | | | | | | | | | |
| 13 | | | | | 9 | DO | | | | | | | | | |
| 14 | | SILTY SAND and GRAVEL, some cobbles; brown, no odour, no staining; non-cohesive, moist | | | | | | | | | | | | | |
| | | | | 312.59 | | | | | | | | | | | |
| | | | | 13.41 | | | | | | | | | | | |
| 15 | | COBBLES, some gravel, some boulders; grey, no odour, no staining; non-cohesive, moist | | | 10 | DO | | | | | | | | | |
| | | | | 311.06 | | | | | | | | | | | |
| | | | | 14.94 | | | | | | | | | | | |
| 16 | | | | | 11 | DO | | | | | | | | | |
| | | | | 309.54 | | | | | | | | | | | |
| | | | | 16.46 | | | | | | | | | | | |
| 17 | | SAND and GRAVEL, some cobbles, some silt; brown/grey, no odour, no staining; non-cohesive, moist | | | | | | | | | | | | | |
| | | | | 308.02 | | | | | | | | | | | |
| | | | | 17.98 | | | | | | | | | | | |
| 18 | | SILTY SAND and GRAVEL; brown/grey, no odour, no staining; non-cohesive, moist | | | 12 | DO | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | |
| 20 | | | | | 13 | DO | | | | | | | | | |
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| | | CONTINUED NEXT PAGE | | | | | | | | | | | | | |

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PROJECT: 20397048 (1000)
 LOCATION: N 4809972.05; E 569761.89

RECORD OF BOREHOLE: BH20-05(SAF)

SHEET 3 OF 3
 DATUM: UTM Zone 17T

BORING DATE: November 11, 2020

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275_CONCESSION_ROAD_7_PUSLINCH_ONTARIO\02_DATA\GINT\4275_CONCESSION_ROAD_7_PUSLINCH_ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | | |
|--------------------|---|---|-------------|-----------------|--------|--|------------|----------------|--|---------------------------------|-----|-----------------------|----|-------------------------|--------------------------------------|---|----|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH | | | | WATER CONTENT PERCENT | | | | | |
| | | | | | | | | Cu, kPa | | nat V. rem V. | + ⊕ | - ⊙ | Wp | | | W | Wi |
| 20 | Rotasonic Borehole size 150 mm; Core size 114 mm | -- CONTINUED FROM PREVIOUS PAGE -- | | | | | | | | | | | | | | | |
| 21 | | SILTY SAND and GRAVEL; brown/grey, no odour, no staining; non-cohesive, moist | | | 13 | DO | | | | | | | | | | | |
| 22 | | | | | 14 | DO | | | | | | | | | | | |
| 23 | | SILTY SAND and GRAVEL, some cobbles; brown/grey, no odour, no staining (TILL); non-cohesive, moist then wet at a depth of 23.16 m | | 303.44 22.56 | | | | | | | | | | | | | |
| 24 | | END OF BOREHOLE | | 301.92 24.08 | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
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RECORD OF BOREHOLE: BH20-06(SAF)

BORING DATE: November 12, 2020

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275_CONCESSION_ROAD_7_PUSLINCH_ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | |
|--------------------|---------------|--|-------------|-----------------|--------|--|------------------------|------------------------|----|---------------------------------|-----------------------|-----------------------|--|-------------------------|--------------------------------------|--|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH Cu, kPa | | | | WATER CONTENT PERCENT | | | | |
| | | | | | | | 20 | 40 | 60 | 80 | | | | | | |
| | | | | | | | SHEAR STRENGTH Cu, kPa | | | | WATER CONTENT PERCENT | | | | | |
| | | | | | | | SHEAR STRENGTH Cu, kPa | | | | WATER CONTENT PERCENT | | | | | |
| 0 | | GROUND SURFACE | | 331.00 | | | | | | | | | | | | |
| | | TOPSOIL - SILTY SAND, some clay; brown/black, no odour, no staining; non-cohesive, moist | | 0.00 | 1 | DO | | | | | | | | | | |
| 1 | | | | | | | | | | | | | | | | |
| | | SILTY SAND and GRAVEL, some cobbles; light grey, no odour, no staining; non-cohesive, moist | | 329.78 1.22 | | | | | | | | | | | | |
| 2 | | | | | | | | | | | | | | | | |
| | | SILTY SAND, some gravel, some boulders (between depths of 2.74 m to 4.27 m); brown, no odour, no staining (TILL); non-cohesive, moist | | 328.87 2.13 | 2 | DO | | | | | | | | | | |
| 3 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | |
| | | SILTY SAND and GRAVEL, some cobbles; brown, no odour, no staining (TILL); non-cohesive, moist | | 326.73 4.27 | 4 | DO | | | | | | | | | | |
| 5 | | | | | | | | | | | | | | | | |
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| 6 | | | | | | | | | | | | | | | | |
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| | | CONTINUED NEXT PAGE | | | | | | | | | | | | | | |

RECORD OF BOREHOLE: BH20-06(SAF)

BORING DATE: November 12, 2020

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275 CONCESSION ROAD 7 PUSLINCH ONTARIO\02 DATA\GINT\4275 CONCESSION ROAD 7 PUSLINCH ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | |
|--------------------|--|--|-------------|-----------------|--------|--|------------------------|----|----|---------------------------------|-----------------------|-----|-----|-------------------------|--------------------------------------|---|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | SHEAR STRENGTH Cu, kPa | | | | WATER CONTENT PERCENT | | | | | |
| | | | | | | | 20 | 40 | 60 | 80 | nat V. rem V. | + ⊕ | - ⊙ | | | U |
| 10 | Rotasonic Borehole size 150 mm; Core size 114 mm | -- CONTINUED FROM PREVIOUS PAGE -- | | | | | | | | | | | | | | |
| | | SILTY SAND and GRAVEL, some cobbles; brown, no odour, no staining (TILL); non-cohesive, moist | | | 7 | DO | | | | | | | | | | |
| 11 | | | | | 8 | DO | | | | | | | | | | |
| 12 | | | | 318.81 | | | | | | | | | | | | |
| | | SAND, some cobbles, some gravel; brown, no odour, no staining; non-cohesive, moist | | 12.19 | | | | | | | | | | | | |
| 13 | | | | | 9 | DO | | | | | | | | | | |
| 14 | | | | 317.59 | | | | | | | | | | | | |
| | | SILTY SAND and GRAVEL; brown, no odour, no staining (TILL); non-cohesive, moist | | 13.41 | | | | | | | | | | | | |
| 15 | | | | | 10 | DO | | | | | | | | | | |
| | | SILTY SAND and GRAVEL; brown/grey, no odour, no staining; non-cohesive, moist then wet at 15.24 m | | 316.06 | | | | | | | | | | | | |
| 16 | | | | | 11 | DO | | | | | | | | | | |
| | | SILTY SAND, some cobbles, some gravel; grey/brown, no odour, no staining (TILL); non-cohesive, moist | | 314.54 | | | | | | | | | | | | |
| 17 | | | | | 12 | DO | | | | | | | | | | |
| | | SILTY SAND, some cobbles, some gravel; light brown, no odour, no staining; non-cohesive, moist | | 313.02 | | | | | | | | | | | | |
| 18 | | | | 13 | DO | | | | | | | | | | | |
| | SILTY SAND, some cobbles, some gravel; light brown, no odour, no staining; non-cohesive, moist | | 311.49 | | | | | | | | | | | | | |
| 19 | | | | 14 | DO | | | | | | | | | | | |
| | | | 19.51 | | | | | | | | | | | | | |
| 20 | | CONTINUED NEXT PAGE | | | | | | | | | | | | | | |

RECORD OF BOREHOLE: BH20-06(SAF)

BORING DATE: November 12, 2020

GTA-BHS 001_S:\CLIENTS\VOTORANTIM_CIMENTOS\4275_CONCESSION_ROAD_7_PUSLINCH_ONTARIO\02_DATA\GINT\4275_CONCESSION_ROAD_7_PUSLINCH_ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | | |
|--------------------|---|---|-------------|-----------------|--------|--|------------|------------------------|----|---------------------------------|----|-----------------------|-----|-------------------------|--------------------------------------|-----|-------|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH Cu, kPa | | | | WATER CONTENT PERCENT | | | | | |
| | | | | | | | | 20 | 40 | 60 | 80 | nat V. rem V. | + ⊕ | | | - ⊖ | Q - U |
| 20 | | -- CONTINUED FROM PREVIOUS PAGE -- SILTY SAND and GRAVEL some cobbles; brown, no odour, no staining; non-cohesive, wet - Sand lense between depths of 21.03 m and 21.34 m | | | | | | | | | | | | | | | |
| 21 | | | | | 14 | DO | | | | | | | | | | | |
| 22 | | | | | 15 | DO | | | | | | | | | | | |
| 23 | | | | | 16 | DO | | | | | | | | | | | |
| 24 | | | | 306.92 24.08 | | | | | | | | | | | | | |
| 25 | Rotasonic Borehole size 150 mm; Core size 114 mm | SAND and GRAVEL, some cobbles, some silt; brown, no odour, no staining; non-cohesive, wet | | | 17 | DO | | | | | | | | | | | |
| 26 | | | | 305.40 25.60 | | | | | | | | | | | | | |
| 27 | | | | 304.18 26.82 | | | | | | | | | | | | | |
| 28 | | | | | 18 | DO | | | | | | | | | | | |
| 29 | | | | | 19 | DO | | | | | | | | | | | |
| 30 | | | | 301.13 29.87 | | | | | | | | | | | | | |
| 30 | | END OF BOREHOLE | | | 20 | DO | | | | | | | | | | | |

RECORD OF BOREHOLE: BH20-07(SAF)

BORING DATE: November 12, 2020

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275 CONCESSION ROAD 7 PUSLINCH ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION |
|--------------------|---------------|--|-------------|-----------------|--------|--|------------|------------------------|----|---------------------------------|----|-----------------------|------------------|-------------------------|--------------------------------------|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH Cu, kPa | | WATER CONTENT PERCENT | | WATER CONTENT PERCENT | | | |
| | | | | | | | | 20 | 40 | 60 | 80 | 10 ⁻⁶ | 10 ⁻⁵ | | |
| 0 | | GROUND SURFACE | | 330.00 | | | | | | | | | | | |
| 0.5 | | TOPSOIL - SILTY SAND, organics; brown/black, no odour, no staining; non-cohesive, moist | | 0.00 | 1 | DO | | | | | | | | | |
| 2.0 | | SILTY SAND and GRAVEL, some cobbles; brown then reddish brown, no odour, no staining (TILL); non-cohesive, moist | | 328.48 1.52 | 2 | DO | | | | | | | | | |
| 4.5 | | SILTY SAND, some cobbles, some gravel; reddish brown, no odour, no staining; non-cohesive, moist | | 325.73 4.27 | 4 | DO | | | | | | | | | |
| 6.0 | | SILTY CLAYEY SAND, some gravel, some cobbles; grey, no odour, no staining; cohesive, w<PL | | 324.22 5.78 | 5 | DO | | | | | | | | | |
| 7.5 | | | | | 6 | DO | | | | | | | | | |
| 8.5 | | | | | 7 | DO | | | | | | | | | |
| 10.0 | | CONTINUED NEXT PAGE | | | | | | | | | | | | | |

PROJECT: 20397048 (1000)
 LOCATION: N 4810410.97; E 570177.60

RECORD OF BOREHOLE: BH20-07(SAF)

SHEET 2 OF 4
 DATUM: UTM Zone 17T

BORING DATE: November 12, 2020

GTA-BHS 001 S:\CLIENTS\IVOTORANTIM_CIMENTOS\4275 CONCESSION ROAD 7_PUSLINCH_ONTARIO\02_DATA\GINT\4275 CONCESSION ROAD 7_PUSLINCH_ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | |
|--------------------|---|---|-------------|-----------------|--------|------|--|----------------|--|---------------|---------------------------------|-----------------------|--|---------|-------------------------|--------------------------------------|----|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH | | | | WATER CONTENT PERCENT | | | | | |
| | | | | | | | | Cu, kPa | | nat V. rem V. | | + | | Q - U - | | | Wp |
| 10 | | -- CONTINUED FROM PREVIOUS PAGE -- | | | | | | | | | | | | | | | |
| 11 | | SILTY CLAYEY SAND, some gravel, some cobbles; grey, no odour, no staining; cohesive, w<PL | | | 7 | DO | | | | | | | | | | | |
| 12 | | SILTY SAND and GRAVEL, some cobbles; brown, no odour, no staining (TILL); cohesive, w<PL | | 318.42 | 11.58 | | | | | | | | | | | | |
| 13 | | | | | 9 | DO | | | | | | | | | | | |
| 14 | | | | | 10 | DO | | | | | | | | | | | |
| 15 | Rotasonic Borehole size 150 mm; Core size 114 mm | SILTY SAND and GRAVEL, some cobbles; grey/brown, no odour, no staining; non-cohesive, moist | | 315.06 | 14.94 | | | | | | | | | | | | |
| 16 | | | | | 11 | DO | | | | | | | | | | | |
| 17 | | SILTY SAND and GRAVEL, some cobbles; brown/grey, no odour, no staining (TILL); non-cohesive, moist | | 313.54 | 16.46 | | | | | | | | | | | | |
| 18 | | SAND and GRAVEL, some cobbles, some silt; brown, no odour, no staining; non-cohesive, wet | | 312.02 | 17.98 | | | | | | | | | | | | |
| 19 | | | | | 13 | DO | | | | | | | | | | | |
| 20 | | SILTY SAND and GRAVEL, some cobbles; brown/grey, no odour, no staining; non-cohesive, moist then wet at 20.73 m | | 310.49 | 19.51 | | | | | | | | | | | | |
| | | CONTINUED NEXT PAGE | | | | | | | | | | | | | | | |

RECORD OF BOREHOLE: BH20-07(SAF)

BORING DATE: November 12, 2020

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | |
|--------------------|---|---|-------------|-----------------|--------|------|--|----------------|----|---------------|---------------------------------|-----------------------|--|----|-------------------------|--------------------------------------|----|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH | | | | WATER CONTENT PERCENT | | | | | |
| | | | | | | | | Cu, kPa | | nat V. rem V. | | Q - U | | Wp | | | Wi |
| 20 | | --- CONTINUED FROM PREVIOUS PAGE --- | | | | | 20 | 40 | 60 | 80 | | | | | | | |
| 21 | | SILTY SAND and GRAVEL, some cobbles; brown/grey, no odour, no staining; non-cohesive, moist then wet at 20.73 m | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | SILTY Sandy GRAVEL, some cobbles; light grey/brown, no odour, no staining; non-cohesive | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | Rotasonic Borehole size 150 mm; Core size 114 mm | | | | | | | | | | | | | | | | |
| 26 | | SAND and GRAVEL, some cobbles, some silt; grey, no odour, no staining; non-cohesive, wet | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | SILT CLAY; grey/brown, no odour, no staining (TILL); cohesive, w>PL | | | | | | | | | | | | | | | |
| 30 | | CONTINUED NEXT PAGE | | | | | | | | | | | | | | | |

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PROJECT: 20397048 (1000)
 LOCATION: N 4810410.97; E 570177.60

RECORD OF BOREHOLE: BH20-07(SAF)

SHEET 4 OF 4
 DATUM: UTM Zone 17T

BORING DATE: November 12, 2020

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275_CONCESSION_ROAD_7_PUSLINCH_ONTARIO\02_DATA\GINT\4275_CONCESSION_ROAD_7_PUSLINCH_ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | | |
|--------------------|--|---|-------------|-----------------|--------|--|------------|----------------|----|---------------------------------|---------|-----------------------|----|-------------------------|--------------------------------------|---|----|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH | | | | WATER CONTENT PERCENT | | | | | |
| | | | | | | | | Cu, kPa | | nat V. rem V. | + ⊕ - ⊙ | Q - U | Wp | | | W | Wi |
| | | -- CONTINUED FROM PREVIOUS PAGE -- | | | | | 20 | 40 | 60 | 80 | | | | | | | |
| 30 | Rotasonic Borehole size: 150 mm, Core size 114 mm | SILT CLAY; grey/brown, no odour, no staining (TILL); cohesive, w>PL | | 20 | DO | | | | | | | | | | | | |
| 31 | | | | 21 | DO | | | | | | | | | | | | |
| 32 | | END OF BOREHOLE | | 298.00 | | | | | | | | | | | | | |
| | | | | 32.00 | | | | | | | | | | | | | |
| 33 | | | | | | | | | | | | | | | | | |
| 34 | | | | | | | | | | | | | | | | | |
| 35 | | | | | | | | | | | | | | | | | |
| 36 | | | | | | | | | | | | | | | | | |
| 37 | | | | | | | | | | | | | | | | | |
| 38 | | | | | | | | | | | | | | | | | |
| 39 | | | | | | | | | | | | | | | | | |
| 40 | | | | | | | | | | | | | | | | | |

RECORD OF BOREHOLE: BH20-08(SAF)

BORING DATE: November 13, 2020

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275_CONCESSION_ROAD_7_PUSLINC_H_ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | | |
|--------------------|--|--|--------------|-----------------|--------|--|------------|----------------|--|---------------------------------|--|-----------------------|--|-------------------------|--------------------------------------|-------|--|
| | | DESCRIPTION | STRATA PILOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH | | | | WATER CONTENT PERCENT | | | | | |
| | | | | | | | | Cu, kPa | | nat V. rem V. | | + | | | | Q - U | |
| 0 | | GROUND SURFACE | | 324.00 | | | | | | | | | | | | | |
| 0 | | TOPSOIL - SILTY SAND, organics; black/dark brown, no odour, no staining; non-cohesive, moist | | 0.00 | | | | | | | | | | | | | |
| 1 | | SILTY SAND, some cobbles, some gravel, some clay; golden /brown, no odour, no staining (TILL); non-cohesive, moist | | 323.09 | 1 | DO | | | | | | | | | | | |
| 2 | | | | 0.91 | | | | | | | | | | | | | |
| 2 | | | | | 2 | DO | | | | | | | | | | | |
| 3 | | SILTY SAND and GRAVEL, some cobbles; brown, no odour, no staining; non-cohesive, moist | | 321.26 | | | | | | | | | | | | | |
| 3 | | | | 2.74 | | | | | | | | | | | | | |
| 3 | | | | | 3 | DO | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 4 | | | | | | | | | | | | | | | | | |
| 5 | Rotasonic | | | | | | | | | | | | | | | | |
| 5 | Borehole size 150 mm; Core size 114 mm | | | | | | | | | | | | | | | | |
| 5 | | | | | 4 | DO | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | |
| 6 | | | | | 5 | DO | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 7 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | |
| 8 | | | | | 6 | DO | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | |
| 9 | | | | | 7 | DO | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | |

CONTINUED NEXT PAGE

RECORD OF BOREHOLE: BH20-08(SAF)

BORING DATE: November 13, 2020

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION |
|--------------------|---------------|---|-------------|-----------------|--------|--|------------|----|----|---------------------------------|----|------------------|------------------|-------------------------|--------------------------------------|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | 20 | 40 | 60 | 80 | 10 ⁻⁶ | 10 ⁻⁵ | | |
| | | -- CONTINUED FROM PREVIOUS PAGE -- | | | | | | | | | | | | | |
| 10 | | | | 313.64 | 7 | DO | | | | | | | | | |
| | | SILTY SAND, some gravel, some cobbles; brown/grey, no odour, no staining; non-cohesive, moist | | 10.36 | | | | | | | | | | | |
| 11 | | | | | 8 | DO | | | | | | | | | |
| | | SAND, some cobbles; brown, no odour, no staining; non-cohesive, moist | | 312.11 | | | | | | | | | | | |
| 12 | | | | 11.89 | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | |
| 14 | | | | | 9 | DO | | | | | | | | | |
| 15 | | | | 309.06 | | | | | | | | | | | |
| | | Sandy GRAVEL, some cobbles; grey, no odour, no staining; non-cohesive, wet | | 14.94 | | | | | | | | | | | |
| 16 | | | | | 10 | DO | | | | | | | | | |
| | | SILTY Sandy GRAVEL, some cobbles; grey, no odour, no staining; non-cohesive | | 307.54 | | | | | | | | | | | |
| 17 | | | | 16.46 | | | | | | | | | | | |
| | | SILT CLAY; grey, no odour, no staining (TILL); cohesive, w>PL | | 306.32 | | | | | | | | | | | |
| 18 | | | | 17.68 | | | | | | | | | | | |
| | | SAND, some cobbles, some gravel; brown, no odour, no staining; non-cohesive, wet | | 306.02 | | | | | | | | | | | |
| 19 | | | | 17.98 | | | | | | | | | | | |
| 20 | | | | | 12 | DO | | | | | | | | | |
| | | CONTINUED NEXT PAGE | | | | | | | | | | | | | |

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275 CONCESSION ROAD 7 PUSLINCH ONTARIO\02 DATA\GINT\4275 CONCESSION ROAD 7 PUSLINCH ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

PROJECT: 20397048 (1000)
 LOCATION: N 4810566.71; E 570022.80

RECORD OF BOREHOLE: BH20-08(SAF)

SHEET 3 OF 3
 DATUM: UTM Zone 17T

BORING DATE: November 13, 2020

GTA-BHS 001 S:\CLIENTS\OTORANTIM_CIMENTOS\4275_CONCESSION_ROAD_7_PUSLINCH_ONTARIO\02_DATA\GINT\4275_CONCESSION_ROAD_7_PUSLINCH_ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | | |
|--------------------|---|---|-------------|-----------------|--------|--|------------|----------------|--|---------------------------------|--|-----------------------|--|-------------------------|--------------------------------------|---------|--|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH | | | | WATER CONTENT PERCENT | | | | | |
| | | | | | | | | Cu, kPa | | nat V. rem V. | | + | | | | Q - U - | |
| 20 | Rotasonic Borehole size 150 mm; Core size 114 mm | -- CONTINUED FROM PREVIOUS PAGE -- | | | | | | | | | | | | | | | |
| 21 | | SAND, some cobbles, some gravel; brown, no odour, no staining; non-cohesive, wet | | | 12 | DO | | | | | | | | | | | |
| 22 | | | | | 13 | DO | | | | | | | | | | | |
| 23 | | Sandy GRAVEL, some cobbles, some silt; grey, no odour, no staining; non-cohesive, wet | | | 301.44 | | | | | | | | | | | | |
| 23 | SILTY CLAYEY SAND; light grey/brown, no odour, no staining (TILL); cohesive, w<PL | | | 22.56 | | | | | | | | | | | | | |
| 23 | | | | 300.84 | | | | | | | | | | | | | |
| 23 | | | | 23.16 | | 14 | DO | | | | | | | | | | |
| 24 | END OF BOREHOLE | | | 299.92 | | | | | | | | | | | | | |
| 24 | | | | 24.08 | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |

RECORD OF BOREHOLE: BH20-09(SAF)

BORING DATE: November 13, 2020

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275_CONCESSION_ROAD_7_PUSLINC_H. ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | |
|--------------------|---------------|--|-------------|-----------------|--------|------|--|----------------|--|---------------|---------------------------------|-----------------------|--|-------|-------------------------|--------------------------------------|----|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH | | | | WATER CONTENT PERCENT | | | | | |
| | | | | | | | | Cu, kPa | | nat V. rem V. | | + | | Q - U | | | Wp |
| 0 | | GROUND SURFACE | | 325.00 | | | | | | | | | | | | | |
| 0.5 | | TOPSOIL - SILTY SAND, organics; golden brown, no odour, no staining (TILL); non-cohesive, moist | | 0.00 | 1 | DO | | | | | | | | | | | |
| 1.5 | | SILTY SAND and GRAVEL, some cobbles; brown/grey, no odour, no staining; non-cohesive, moist | | 323.48 1.52 | 2 | DO | | | | | | | | | | | |
| 2.5 | | SILTY SAND and GRAVEL, some cobbles; brown/grey, no odour, no staining (TILL); non-cohesive, moist | | 322.26 2.74 | 3 | DO | | | | | | | | | | | |
| 3.5 | | | | | 4 | DO | | | | | | | | | | | |
| 4.5 | | | | | 5 | DO | | | | | | | | | | | |
| 5.5 | | | | | 6 | DO | | | | | | | | | | | |
| 6.5 | | | | | 7 | DO | | | | | | | | | | | |
| 8.5 | | SILTY SAND and GRAVEL, some cobbles; brown/grey, no odour, no staining; non-cohesive, moist | | 316.47 8.53 | 7 | DO | | | | | | | | | | | |
| 10 | | CONTINUED NEXT PAGE | | | | | | | | | | | | | | | |

RECORD OF BOREHOLE: BH20-09(SAF)

BORING DATE: November 13, 2020

GTA-BHS 001 S:\CLIENTS\IVOTORANTIM_CIMENTOS\4275 CONCESSION ROAD 7_PUSLINCH ONTARIO\02_DATA\GINT4275 CONCESSION ROAD 7_PUSLINCH ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | |
|--------------------|---|--|--|-----------------|--------|--|------------|----|----|---------------------------------|----|------------------|------------------|-------------------------|--------------------------------------|------------------|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | 20 | 40 | 60 | 80 | 10 ⁻⁶ | 10 ⁻⁵ | | | 10 ⁻⁴ |
| | | -- CONTINUED FROM PREVIOUS PAGE -- | | | | | | | | | | | | | | |
| 10 | Rotasonic Borehole size 150 mm; Core size 114 mm | | | 314.64 | 7 | DO | | | | | | | | | | |
| | | | SILTY SAND and GRAVEL, some cobbles; brown/grey, no odour, no staining (TILL); non-cohesive, moist | | 10.36 | | | | | | | | | | | |
| 11 | | | | | 8 | DO | | | | | | | | | | |
| | | | | | 313.11 | | | | | | | | | | | |
| | | | SILTY SAND and GRAVEL, some cobbles; brown/grey, no odour, no staining; non-cohesive, moist | | 11.89 | | | | | | | | | | | |
| 12 | | | | | 9 | DO | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 13 | | | | | | | | | | | | | | | | |
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| 14 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 15 | | | | | | | | | | | | | | | | |
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| 16 | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| 17 | | | | 308.54 | | | | | | | | | | | | |
| | | | | 16.46 | | | | | | | | | | | | |
| | | SILTY SAND and GRAVEL, some cobbles; brown/grey, no odour, no staining (TILL); non-cohesive, moist then wet at 17.07 m | | | 12 | DO | | | | | | | | | | |
| 18 | | | | 307.02 | | | | | | | | | | | | |
| | | | | 17.98 | | | | | | | | | | | | |
| | | Sandy SILTY GRAVEL, some cobbles; brown, no odour, no staining; non-cohesive, wet | | | 13 | DO | | | | | | | | | | |
| 19 | | | | 306.10 | | | | | | | | | | | | |
| | | | | 18.90 | | | | | | | | | | | | |
| | | SAND and GRAVEL, some cobbles, some silt; brown, no odour, no staining; non-cohesive, wet | | | | | | | | | | | | | | |
| | | | | 305.49 | | | | | | | | | | | | |
| | | | | 19.51 | | | | | | | | | | | | |
| | | Gravelly SAND; brown, no odour, no staining; non-cohesive, wet | | | 14 | DO | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | |
| | | CONTINUED NEXT PAGE | | | | | | | | | | | | | | |

RECORD OF BOREHOLE: BH20-09(SAF)

BORING DATE: November 13, 2020

GTA-BHS 001 S:\CLIENTS\VOTORANTIM_CIMENTOS\4275_CONCESSION_ROAD_7_PUSLINC_H_ONTARIO.GPJ_GAL-MIS.GDT 12/9/20

| DEPTH SCALE METRES | BORING METHOD | SOIL PROFILE | | SAMPLES | | DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m | | | | HYDRAULIC CONDUCTIVITY, k, cm/s | | | | ADDITIONAL LAB. TESTING | PIEZOMETER OR STANDPIPE INSTALLATION | | |
|--------------------|---|---|-------------|-----------------|--------|--|------------|----------------|--|---------------------------------|--|-----------------------|--|-------------------------|--------------------------------------|----|--|
| | | DESCRIPTION | STRATA PLOT | ELEV. DEPTH (m) | NUMBER | TYPE | BLOWS/0.3m | SHEAR STRENGTH | | | | WATER CONTENT PERCENT | | | | | |
| | | | | | | | | Cu, kPa | | nat V. rem V. | | Q - U | | | | Wp | |
| | | -- CONTINUED FROM PREVIOUS PAGE -- | | | | | | | | | | | | | | | |
| 20 | Rotasonic Borehole size 150 mm; Core size 114 mm | SAND and GRAVEL; brown, no odour, no staining; non-cohesive, wet | | 304.88 20.12 | 14 | DO | | | | | | | | | | | |
| 21 | | SILTY SAND and GRAVEL, some cobbles; brown, no odour, no staining; non-cohesive, moist | | 303.97 21.03 | 15 | DO | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | Gravelly SAND, some cobbles; brown, no odour, no staining; non-cohesive, wet | | 302.44 22.56 | 16 | DO | | | | | | | | | | | |
| 24 | | SILTY SAND and GRAVEL, some cobbles; brown/grey, no odour, no staining; non-cohesive, wet | | 301.23 23.77 | 17 | DO | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | SILTY SAND; light brown, no odour, no staining; non-cohesive, moist | | 298.79 26.21 | 18 | DO | | | | | | | | | | | |
| 27 | | SILTY SAND; light brown, no odour, no staining (TILL); cohesive, w>PL | | 297.87 27.13 | 19 | DO | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | END OF BOREHOLE | | 296.35 28.65 | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |



LOG OF BOREHOLE BH21-01 (SAF)

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Estimated
 BH LOCATION: N 4810078 E 569731

Method: Sonic
 Diameter: 152 mm
 Date: Dec-09-2021 to Dec-09-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | PLASTIC LIMIT W _p | NATURAL MOISTURE CONTENT w | LIQUID LIMIT W _L | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | |
|-----------------------|---|-------------|---------|------|--------------------|-------------------------|-----------|--|----|---------------------------------|-------------------------------|--------------------------------|------------------------|--------------------------------------|---|-------------|
| (m) ELEV. DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 | 40 | | | | | | | 60 |
| 321.5 | Ground Surface | | | | | | | | | | | | | | | GR SA SI CL |
| 0.0 | Dark brown sandy silt TOPSOIL, trace clay, rootlets, APL. | | 1A | CC | | | | | | | | | | | | |
| 320.9 | | | | | | | 321 | | | | | | | | | 0 52 (48) |
| 0.6 | Brown to dark brown CLAYEY SILT, trace rootlets, APL. | | 1B | CC | | | | | | | | | | | | |
| 320.4 | | | | | | | | | | | | | | | | |
| 1.1 | Light brown SANDY SILT TILL, some gravel, trace cobble, moist. | | 2 | CC | | | 320 | | | | | | | | | 21 39 (33) |
| | | | | | | | 319 | | | | | | | | | |
| | | | | | | | 318 | | | | | | | | | 35 35 (23) |
| 317.5 | | | | | | | | | | | | | | | | |
| 4.0 | Light beige to light brown fine to medium SAND, some gravel, trace cobble, moist. | | 4 | CC | | | 317 | | | | | | | | | 42 39 (19) |
| | | | | | | | 316 | | | | | | | | | |
| 316.0 | | | | | | | | | | | | | | | | |
| 5.5 | Beige-brown GRAVELLY SAND to SAND AND GRAVEL, trace silt, trace cobble, moist. | | 5 | CC | | | 315 | | | | | | | | | 52 29 (12) |
| | | | | | | | 314 | | | | | | | | | |
| | | | | | | | 313 | | | | | | | | | |
| | | | | | | | 312 | | | | | | | | | 56 29 (10) |
| | | | | | | | 311 | | | | | | | | | |
| 310.8 | | | | | | | | | | | | | | | | |
| 10.7 | Beige SAND, some gravel, trace silt, occasional cobble, moist. | | 8 | CC | | | 310 | | | | | | | | | 32 41 (24) |
| | | | | | | | 309 | | | | | | | | | |
| | | | | | | | 308 | | | | | | | | | |
| 308.7 | | | | | | | | | | | | | | | | |
| 12.8 | | | | | | | 307 | | | | | | | | | 42 40 (18) |

Continued Next Page

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+3, x3: Numbers refer to Sensitivity
 ○ = 3% Strain at Failure

ONTARIO MINING COMMISSION
 1000 LESLIE STREET, SUITE 100
 TORONTO, ONTARIO M6H 1P5



LOG OF BOREHOLE BH21-01 (SAF)

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Estimated
 BH LOCATION: N 4810078 E 569731

Method: Sonic
 Diameter: 152 mm
 Date: Dec-09-2021 to Dec-09-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | | | PLASTIC LIMIT | NATURAL MOISTURE CONTENT | LIQUID LIMIT | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | | | |
|-----------------|--|-------------|---------|------|-----------------|-------------------------|-----------|--|----|----|----|---------------|--------------------------|--------------|------------------------|--------------------------------------|---|-----|----------------|------|
| (m) ELEV. DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 | 40 | 60 | 80 | | | | | | | 100 | W _p | w |
| Continued | | | | | | | | | | | | | | | | | | | | |
| 302.9 | Brown SAND AND GRAVEL, trace silt, trace to some cobble, moist to wet. | | 11 | CC | | | | | | | | | | | | | 43 | 40 | (9) | |
| 305 | 30 cm layer of sand at 15.2 m depth. | | | | | | | | | | | | | | | | | | | |
| 304 | 10 cm layer of sandy silt till at 17.6 m depth. | | 12 | CC | | | | | | | | | | | | | | | | |
| 303 | Becomes saturated below 17.7 m depth.(Continued) | | 13 | CC | | | | | | | | | | | | | | 41 | 37 | (15) |
| 301.4 | Light brown SILTY SAND AND GRAVEL, trace cobble, wet. | | 14A | CC | | | | | | | | | | | | | | 58 | 30 | (7) |
| 301 | Grey-brown SANDY SILT TILL, some gravel, trace cobble, DTPL to APL. | | 14B | CC | | | | | | | | | | | | | | 26 | 33 | (41) |
| 300 | | | 15 | CC | | | | | | | | | | | | | | | | |
| 299 | | | 16A | CC | | | | | | | | | | | | | | 34 | 48 | (18) |
| 298 | | | 16B | CC | | | | | | | | | | | | | | | | |
| 297 | | | 17 | CC | | | | | | | | | | | | | | | | |
| 296 | | | | | | | | | | | | | | | | | | | | |
| 295 | | | 18 | CC | | | | | | | | | | | | | | | | |
| 294.7 | | | | | | | | | | | | | | | | | | | | |
| 26.8 | | | | | | | | | | | | | | | | | | | | |

GROUNDWATER ELEVATIONS
 Measurement

GRAPH NOTES + 3, x 3: Numbers refer to Sensitivity ○ ● = 3% Strain at Failure

DATE PLOTTED: 2021-12-09 10:58:58 AM



LOG OF BOREHOLE BH21-02 (SAF)

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Estimated
 BH LOCATION: N 4810230 E 569796

Method: Sonic
 Diameter: 152 mm
 Date: Dec-09-2021 to Dec-09-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | PLASTIC LIMIT W _p | NATURAL MOISTURE CONTENT w | LIQUID LIMIT W _L | POCKET PEN. (C _u) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL |
|-----------------------|--|-------------|---------|------|--------------------|-------------------------|-----------|--|-----------------|---------------------------------|-------------------------------|--------------------------------|-------------------------------------|--------------------------------------|--|
| (m) ELEV. DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 40 60 80 100 | 20 40 60 80 100 | | | | | | |
| 327.0 | Ground Surface | | | | | | | | | | | | | | |
| 0.0 | Dark brown clayey silt TOPSOIL, rootlets, WTPL. | | 1 | CC | | | | | | | | | | | |
| 326.5 | | | | | | | | | | | | | | | |
| 0.5 | Brown to reddish-brown CLAYEY SILT, trace rootlets, APL. | | | | | | | | | | | | | | |
| 325.8 | | | | | | | | | | | | | | | |
| 1.2 | Light brown SILTY SAND to SANDY SILT TILL, some gravel, trace cobble, moist, poorly sorted, rusty orange staining observed throughout. | | 2 | CC | | | | | | | | | | 20 40 (40) | |
| | Orange rusty staining from 5.0 m to 5.5 m depth. | | | | | | | | | | | | | | |
| | | | 3 | CC | | | | | | | | | | 36 34 (24) | |
| | | | 4 | CC | | | | | | | | | | 32 40 (28) | |
| | | | 5 | CC | | | | | | | | | | 33 39 (28) | |
| | | | 6 | CC | | | | | | | | | | | |
| | | | 7 | CC | | | | | | | | | | | |
| | | | 8 | CC | | | | | | | | | | 31 40 (29) | |
| 315.4 | | | | | | | | | | | | | | | |
| 11.6 | Light brown SILTY SAND, trace gravel, moist. | | 9 | CC | | | | | | | | | | 13 50 (37) | |
| | 25 cm layer of medium-coarse sand with trace gravel at 12.2 m depth. | | | | | | | | | | | | | | |
| 314.0 | | | | | | | | | | | | | | | |
| 13.0 | Light brown SANDY SILT TILL, trace gravel and cobbles, moist, poorly sorted. | | 10 | CC | | | | | | | | | | 40 35 (25) | |
| | Minor orange rusty staining from 13.1 m to 13.7 m depth. | | | | | | | | | | | | | | |
| 312.1 | | | | | | | | | | | | | | | |

Continued Next Page

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+ 3, × 3: Numbers refer to Sensitivity
 ○ = 3% Strain at Failure

DATE: 11/10/2021 10:58 AM



LOG OF BOREHOLE BH21-02 (SAF)

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Estimated
 BH LOCATION: N 4810230 E 569796

Method: Sonic
 Diameter: 152 mm
 Date: Dec-09-2021 to Dec-09-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | | | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | | |
|-----------------|--|-------------|---------|------|-----------------|-------------------------|-----------|--|----|----|----|------------------------|--------------------------------------|---|------------|------------------------------|
| (m) ELEV. DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 | 40 | 60 | 80 | | | | 100 | PLASTIC LIMIT W _p |
| 14.9 | Continued Beige-brown to greyish-brown GRAVELLY SAND, trace cobble, moist.(Continued) | | 11 | CC | | | | | | | | | | | 37 36 (27) | |
| 16 | | | 12 | CC | | | | | | | | | | | | 36 40 (24) |
| 17 | | | 13 | CC | | | | | | | | | | | | 40 36 (15) |
| 18 | | | 14 | CC | | | | | | | | | | | | 59 32 (9) |
| 20.3 | Brown SAND AND GRAVEL, some cobbles, trace silt, moist to wet, minor rusty orange staining. | | 15 | CC | | | | | | | | | | | 60 32 (8) | |
| 21 | | | 16 | CC | | | | | | | | | | | | 50 33 (8) |
| 23.8 | Brownish grey SANDY SILT TO SILT TILL, some gravel, trace cobbles, DTPL to APL, poorly sorted. | | 17 | CC | | | | | | | | | | | | |
| 26.8 | | | 18 | CC | | | | | | | | | | | | |

GROUNDWATER ELEVATIONS
 Measurement 1st 2nd 3rd 4th

GRAPH NOTES + 3, x 3: Numbers refer to Sensitivity ○ ●=3% Strain at Failure

DRAWN BY: M. VAN DER BRUG, 2021-12-09, 10:52 AM



LOG OF BOREHOLE BH21-03 (SAF)

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Estimated
 BH LOCATION: N 4810346 E 570136

Method: Sonic
 Diameter: 152 mm
 Date: Dec-10-2021 to Dec-10-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | PLASTIC LIMIT W _p | NATURAL MOISTURE CONTENT w | LIQUID LIMIT W _L | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL |
|-----------------------|---|-------------|---------|------|--------------------|-------------------------|-----------|--|----|---------------------------------|-------------------------------|--------------------------------|------------------------|--------------------------------------|--|
| (m) ELEV. DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 | 40 | | | | | | |
| 329.5 | Ground Surface | | | | | | | | | | | | | | |
| 329.2 | Dark brown sandy silt TOPSOIL, rootlets, WTPL. | | 1B | CC | | | | | | | | | | 55 | 29 (16) |
| 0.3 | Light brown SILTY SAND TILL, some gravel, trace clay, trace cobble, wet, poorly sorted. | | 2 | CC | | | | | | | | | | 29 | 35 (25) |
| 326.4 | Light brown SAND, some gravel, some cobble, trace silt, moist. | | 3 | CC | | | | | | | | | | 34 | 39 (19) |
| 326.4 | 15 cm thick layer of black sand, some gravel at 4.6 m depth. | | 4 | CC | | | | | | | | | | 39 | 48 (13) |
| 323.4 | 16 cm thick layer of brown silty sand with orange staining at 5.3 m depth. | | 5 | CC | | | | | | | | | | 52 | 35 (13) |
| 6.1 | Brown COBBLY SAND AND GRAVEL, trace silt, moist, poorly sorted. | | 6 | CC | | | | | | | | | | 60 | 29 (11) |
| 6.1 | Minor rusty orange staining from 7.3 m to 8.2 m depth. | | 7 | CC | | | | | | | | | | 42 | 30 (24) |
| 321.0 | Light brown SILTY SAND TO SANDY SILT TILL, some gravel, trace cobble, moist to wet. | | 8 | CC | | | | | | | | | | 42 | 38 (20) |
| 319.4 | Beige GRAVELLY SAND, trace cobble, trace silt, moist. Minor rusty-orange staining. | | 9 | CC | | | | | | | | | | 45 | 33 (22) |
| 10.1 | 15 cm layer of brown silty sand till at 14.6 m depth. | | 10 | CC | | | | | | | | | | | |
| 10.1 | 30 cm layer of light brown sand at 17.4 m depth. | | | | | | | | | | | | | | |

Continued Next Page

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+3, x3: Numbers refer to Sensitivity
 ○ = 3% Strain at Failure

DATE: 11/10/2021 10:58 AM



LOG OF BOREHOLE BH21-03 (SAF)

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Estimated
 BH LOCATION: N 4810346 E 570136

Method: Sonic
 Diameter: 152 mm
 Date: Dec-10-2021 to Dec-10-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | | | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | |
|----------------|--|-------------|---------|------|-----------------|-------------------------|-----------|--|----|----|----|------------------------|--------------------------------------|---|------------|
| (m) ELEV DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 | 40 | 60 | 80 | | | | 100 |
| Continued | | | | | | | | | | | | | | | |
| 316 | Beige GRAVELLY SAND, trace cobble, trace silt, moist. Minor rusty-orange staining. | | 11 | CC | | | | | | | | | | | 31 48 (11) |
| | 15 cm layer of brown silty sand till at 14.6 m depth. | | | | | | | | | | | | | | |
| | 30 cm layer of light brown sand at 17.4 m depth.(Continued) | | 12 | CC | | | | | | | | | | | 33 43 (24) |
| 311.8 | Beige GRAVELLY SAND, trace to some cobble, trace silt, moist. | | | | | | | | | | | | | | |
| 17.7 | 10 to 13 cm thick layer of silt till at 24.1 m depth. | | 13 | CC | | | | | | | | | | | 40 40 (20) |
| | | | 14 | CC | | | | | | | | | | | 50 37 (13) |
| | | | 15 | CC | | | | | | | | | | | |
| | | | 16 | CC | | | | | | | | | | | 33 49 (18) |
| | | | 17 | CC | | | | | | | | | | | 51 30 (19) |
| | | | 18 | CC | | | | | | | | | | | 55 34 (11) |
| 302.7 | Beige-brown COBBLY SAND AND GRAVEL, trace silt, poorly sorted, saturated. | | | | | | | | | | | | | | |
| 26.8 | 15 cm layer of coarse sand, trace gravel at 27.4 m depth. | | 19 | CC | | | | | | | | | | | 47 35 (6) |
| | Silty from 30.5 m to 30.6 m depth. | | 20 | CC | | | | | | | | | | | 65 30 (5) |

ONTARIO MINING COMMISSION
 1000 SHEPPARD AVENUE EAST, SUITE 100
 SCARBOROUGH, ONTARIO M1S 1T5
 TEL: (416) 497-3939
 FAX: (416) 497-3940
 WWW.OMC.MINING.CA

Continued Next Page

GROUNDWATER ELEVATIONS

Measurement

GRAPH NOTES

+ 3, × 3: Numbers refer to Sensitivity
 ○ ● = 3% Strain at Failure

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Estimated
 BH LOCATION: N 4810346 E 570136

Method: Sonic
 Diameter: 152 mm
 Date: Dec-10-2021 to Dec-10-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | | | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | |
|----------------|---|-------------|---------|------|-----------------|-------------------------|-----------|--|----|----|----|------------------------|--------------------------------------|---|------------|
| (m) ELEV DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 | 40 | 60 | 80 | | | | 100 |
| Continued | | | | | | | | | | | | | | | |
| 298.4 | Beige-brown medium to fine SAND, trace gravel, saturated. | | 21 | CC | | | | | | | | | | | 41 38 (14) |
| 31.1 | | | 22A | CC | | | | | | | | | | | |
| 296.9 | Light brown CLAYEY SILT TO SILTY CLAY TILL, occasional fine sand lenses, WTPL to APL. | | 22B | CC | | | | | | | | | | | |
| 32.6 | | | 23 | CC | | | | | | | | | | | |
| | | | 24 | CC | | | | | | | | | | | |
| 293.5 | | | | | | | | | | | | | | | |
| 36.0 | | | | | | | | | | | | | | | |

DATE PLOTTED: 11/10/2021 10:58 AM

GROUNDWATER ELEVATIONS
 Measurement 1st 2nd 3rd 4th

GRAPH NOTES +³, ×³: Numbers refer to Sensitivity ○ ● = 3% Strain at Failure



LOG OF BOREHOLE BH21-04 (SAF)

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Estimated
 BH LOCATION: N 4810510 E 570080

Method: Sonic
 Diameter: 152 mm
 Date: Dec-10-2021 to Dec-10-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | | | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | |
|-----------------|--|-------------|---------|------|-----------------|-------------------------|-----------|--|----|----|----|------------------------|--------------------------------------|---|------------|
| (m) ELEV. DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 | 40 | 60 | 80 | | | | 100 |
| 319.4 | Ground Surface | | | | | | | | | | | | | | |
| 319.0 | Dark brown sandy silt TOPSOIL, rootlets, APL. | | 1A | CC | | | | | | | | | | | |
| 0.2 | Light brown GRAVELLY SAND, some cobble, trace silt, wet. | | 1B | CC | | | | | | | | | | | 24 36 (40) |
| 318.5 | Light brown SILTY SAND TO SANDY SILT TILL, some gravel, trace cobble, moist. | | 2 | CC | | | | | | | | | | | 29 40 (31) |
| 0.9 | Some orange staining from 6.4 to 7.0 m depth. | | 3A | CC | | | | | | | | | | | 45 30 (25) |
| | | | 3B | CC | | | | | | | | | | | 28 40 (32) |
| | | | 4 | CC | | | | | | | | | | | 31 36 (33) |
| | | | 5 | CC | | | | | | | | | | | 35 37 (28) |
| | | | 6 | CC | | | | | | | | | | | 45 35 (20) |
| 311.2 | Light brown to beige SAND AND GRAVEL, trace silt, trace cobble, wet. | | 7 | CC | | | | | | | | | | | |
| 8.2 | Some orange staining from 7.9 to 8.5 m depth. | | 8 | CC | | | | | | | | | | | |
| | 10 cm layer of silty sand at 9.1 m depth. | | 9 | CC | | | | | | | | | | | 43 39 (18) |
| | Large cobble at 12.8 m depth. | | 10 | CC | | | | | | | | | | | 57 35 (8) |
| | Rusty orange staining from 14.6 to 15.5 m depth. | | | | | | | | | | | | | | |

Continued Next Page

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+3, x3: Numbers refer to Sensitivity
 ○ = 3% Strain at Failure

ONTARIO MINING ASSOCIATION
 1000 LESLIE STREET, SUITE 100
 SCARBOROUGH, ONTARIO M1M 3Z5



LOG OF BOREHOLE BH21-04 (SAF)

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Estimated
 BH LOCATION: N 4810510 E 570080

Method: Sonic
 Diameter: 152 mm
 Date: Dec-10-2021 to Dec-10-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | | | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | | | |
|----------------|---|-------------|---------|------|-----------------|-------------------------|-----------|--|--|--|--|------------------------|--------------------------------------|---|----------------|---|----------------|
| (m) ELEV DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | SHEAR STRENGTH (kPa) | | | | | | | W _p | W | W _L |
| Continued | | | | | | | | | | | | | | | | | |
| 303.5 | Light brown SAND, trace gravel with silty fine sand lenses, graded, wet becoming saturated. | | 11 | CC | | | | | | | | | | | | | 48 29 (23) |
| 302.0 | | | 12A | CC | | | | | | | | | | | | | |
| 17.4 | Light brown SAND AND GRAVEL, trace to some silt, trace cobble, saturated. | | 12B | CC | | | | | | | | | | | | | 34 44 (22) |
| 301.0 | | | 13 | CC | | | | | | | | | | | | | |
| 20.1 | 10 cm layer of gravel at 20.1 m depth. | | 14 | CC | | | | | | | | | | | | | 26 48 (17) |
| 20.3 | Some cobble from 20.3 to 20.7 m depth. | | | | | | | | | | | | | | | | |
| 21.3 | Beige-brown SANDY GRAVEL AND COBBLE, mostly sub-rounded, poorly sorted, saturated. | | 15 | CC | | | | | | | | | | | | | |
| 298.1 | | | 16 | CC | | | | | | | | | | | | | |
| 23.8 | Beige-brown GRAVELLY SAND, trace slit, trace cobble, saturated. | | 17 | CC | | | | | | | | | | | | | |
| 295.6 | | | 18 | CC | | | | | | | | | | | | | |
| 26.2 | Beige-brown SAND AND GRAVEL, some cobble to cobbly, saturated. | | 19 | CC | | | | | | | | | | | | | |
| 293.2 | | | 20 | CC | | | | | | | | | | | | | |
| 28.3 | Beige SANDY SILT TO SILTY SAND TILL, gravelly, some cobble to cobbly, saturated. | | | | | | | | | | | | | | | | |
| 291.0 | | | | | | | | | | | | | | | | | |
| 29.9 | Angular fragments of dolostone below 29.9 m depth. | | | | | | | | | | | | | | | | |

Continued Next Page

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+ 3, × 3: Numbers refer to Sensitivity
 ○ ● = 3% Strain at Failure

ONTARIO MINING COMMISSION
 1000 SHEPPARD AVENUE EAST
 SUITE 1000
 SCARBOROUGH, ONTARIO M1S 1T5
 TEL: (416) 291-2222
 FAX: (416) 291-2223
 WWW.OMC.MINING.GOV.ON

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Estimated
 BH LOCATION: N 4810510 E 570080

Method: Sonic
 Diameter: 152 mm
 Date: Dec-10-2021 to Dec-10-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | | | | PLASTIC LIMIT | NATURAL MOISTURE CONTENT | LIQUID LIMIT | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) |
|-----------------|--|-------------|---------|------|-----------------|-------------------------|-----------|--|----|----|----|-----|---------------|--------------------------|--------------|------------------------|--------------------------------------|---|
| (m) ELEV. DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 | 40 | 60 | 80 | 100 | | | | | | |
| Continued | Beige SANDY SILT TO SILTY SAND TILL, gravelly, some cobble to cobbly, saturated. Angular fragments of dolostone below 29.9 m depth. (Continued) | | 21 | CC | | | | | | | | | | | | | | |
| | | | 22 | CC | | | | | | | | | | | | | | |
| 286.5 | | | | | | | | | | | | | | | | | | |
| 32.9 | | | | | | | | | | | | | | | | | | |

DATE PLOTTED: 11/10/2021 10:58 AM BY: J. WILSON

GROUNDWATER ELEVATIONS
 Measurement

GRAPH NOTES
 +³, ×³: Numbers refer to Sensitivity
 ○ ● = 3% Strain at Failure



LOG OF BOREHOLE MW21-01 (SAF)

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Geodetic
 BH LOCATION: N 4810093.943 E 569526.217

Method: Sonic
 Diameter: 152 mm
 Date: Dec-15-2021 to Dec-15-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | PLASTIC LIMIT | NATURAL MOISTURE CONTENT | LIQUID LIMIT | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT. (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) |
|-----------------------|--|-------------|---------|------|--------------------|-------------------------|--|----|---------------|--------------------------|--------------|------------------------|---------------------------------------|---|
| (m) ELEV. DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | SHEAR STRENGTH (kPa) | | | | | | | |
| 316.9 | Ground Surface | | | | | | 20 40 60 80 100 | Wp | w | Wl | | | | |
| 0.0 | Dark brown sandy silt TOPSOIL, rootlets, APL. | | 1A | CC | | | 20 40 60 80 100 | | | | | | | GR SA SI CL |
| 316.5 | | | | | | | | | | | | | | 24 41 (35) |
| 0.5 | Light brown SANDY SILT TILL, some gravel, trace to some clay, APL. | | 1B | CC | | | | | | | | | | 12 52 (36) |
| 315.7 | | | | | | | | | | | | | | |
| 1.2 | Light brown SAND AND GRAVEL, trace cobble, trace silt, moist. | | 2 | CC | | | | | | | | | | |
| 314.5 | | | | | | | | | | | | | | |
| 2.4 | Light brown SILTY SAND TILL, some gravel, trace cobble, wet. 10 cm layer of gravel at 3.0 m depth. Frequent orange staining below 4.0 m depth. | | 3 | CC | | | | | | | | | | 39 36 (21) |
| 314.5 | | | | | | | | | | | | | | |
| 4.0 | | | 4 | CC | | | | | | | | | | 30 37 (21) |
| 313.0 | | | | | | | | | | | | | | |
| 5.0 | | | 5 | CC | | | | | | | | | | 34 45 (21) |
| 311.0 | | | | | | | | | | | | | | |
| 7.3 | Beige GRAVELLY SAND, trace silt, trace cobble, moist to dry. 45 cm layer of SAND at 11.0 m depth. Becoming wet at 11.7 m depth. | | 6 | CC | | | | | | | | | | 46 40 (14) |
| 309.6 | | | | | | | | | | | | | | |
| 7.0 | | | 7 | CC | | | | | | | | | | 52 35 (13) |
| 307.0 | | | | | | | | | | | | | | |
| 8.0 | | | 8 | CC | | | | | | | | | | 32 45 (18) |
| 305.1 | | | | | | | | | | | | | | |
| 11.9 | Beige SILTY SAND TILL, some gravel, wet. | | 9B | CC | | | | | | | | | | 19 49 (32) |
| 304.4 | | | | | | | | | | | | | | |
| 12.5 | Light brown to beige SAND AND GRAVEL, some to trace cobble, trace silt, saturated. | | 9A | CC | | | | | | | | | | 44 30 (13) |
| 304.4 | | | | | | | | | | | | | | |
| 10.0 | | | 10 | CC | | | | | | | | | | 62 20 (5) |
| 303.0 | | | | | | | | | | | | | | |

W. L. 306.21 m
 Dec 15, 2021

Continued Next Page

GROUNDWATER ELEVATIONS

1st Measurement
 2nd Measurement
 3rd Measurement
 4th Measurement

GRAPH NOTES

+3, x3: Numbers refer to Sensitivity
 O = 3% Strain at Failure

DRAWN BY: K. B. S. / DATE: 12/15/21 / SHEET: 1 OF 2

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Geodetic
 BH LOCATION: N 4810093.943 E 569526.217

Method: Sonic
 Diameter: 152 mm
 Date: Dec-15-2021 to Dec-15-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | | | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) |
|-----------------|---|-------------|--------|------|-------------------------|-----------|--|----------------------|--|--|------------------------|--------------------------------------|---|
| (m) ELEV. DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | | | "N" BLOWS 0.3 m | SHEAR STRENGTH (kPa) | | | | | |
| Continued | Light brown to beige SAND AND GRAVEL, some to trace cobble, trace silt, saturated.(Continued) | | 11 | CC | | | | | | | | | 66 23 (2) |
| | | | 12 | CC | | | | | | | | | 65 30 (5) |
| | | | 13 | CC | | | | | | | | | 45 48 (3) |
| | | | 14 | CC | | | | | | | | | |
| | | | 15 | CC | | | | | | | | | 64 23 (4) |
| 293.9 | 23.0 Grey SANDY SILT TILL, some gravel, trace cobble, saturated. | | 16 | CC | | | | | | | | | |
| 292.6 | 24.4 Cream coloured LIMESTONE fragments, fine grained. | | 17 | CC | | | | | | | | | |

GROUNDWATER ELEVATIONS
 Measurement 1st 2nd 3rd 4th

GRAPH NOTES + 3, x 3: Numbers refer to Sensitivity ○ 3% Strain at Failure

DATE PLOTTED: 15/12/2021 10:58 AM BY: KJF

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Geodetic
 BH LOCATION: N 4810014.468 E 569931.985

Method: Sonic
 Diameter: 152 mm
 Date: Dec-14-2021 to Dec-14-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | PLASTIC LIMIT W _p | NATURAL MOISTURE CONTENT w | LIQUID LIMIT W _L | POCKET PEN. (C _u) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | |
|-----------------------|---|-------------|---------|------|--------------------|----------------------------|-----------|---|----|------------------------------------|-------------------------------------|-----------------------------------|--|---|---|------------|
| (m) ELEV. DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 | 40 | | | | | | | 60 |
| 328.0 | Ground Surface | | | | | | | | | | | | | | | |
| 0.0 | Dark brown sandy silt TOPSOIL, rootlets, DTPL. | | 1 | CC | | | | | | | | | | | | |
| 327.1 | | | | | | | | | | | | | | | | |
| 326.8 | Brown SANDY SILT TILL, some clay, trace to some gravel, trace rootlets, DTPL to APL. | | 2A | CC | | | | | | | | | | | | 30 42 (28) |
| 1.2 | Light brown to beige SAND, some gravel, trace silt, trace cobble, moist to dry. | | 2B | CC | | | | | | | | | | | | 28 42 (30) |
| 325.5 | | | | | | | | | | | | | | | | |
| 2.4 | Light brown to beige SILTY SAND TILL, some gravel, trace cobble, poorly sorted, moist to wet. | | 3 | CC | | | | | | | | | | | | 25 42 (33) |
| | Some rusty orange staining from 6.7 to 7.0 m depth. | | | | | | | | | | | | | | | |
| | | | 4 | CC | | | | | | | | | | | | 41 32 (27) |
| | | | 5 | CC | | | | | | | | | | | | 33 36 (28) |
| 320.5 | | | 6A | CC | | | | | | | | | | | | 56 27 (17) |
| 7.5 | Light brown SANDY GRAVEL TO GRAVELLY SAND, trace to some cobble, trace silt, moist to dry. | | 6B | CC | | | | | | | | | | | | 52 36 (12) |
| | Some cobble at 12.6 m depth. | | | | | | | | | | | | | | | |
| | | | 7 | CC | | | | | | | | | | | | 53 34 (13) |
| | | | 8 | CC | | | | | | | | | | | | 49 38 (13) |
| | | | 9 | CC | | | | | | | | | | | | 57 27 (7) |
| | | | 10 | CC | | | | | | | | | | | | 59 31 (10) |

ONTARIO MINING COMMISSION
 1000 SHEPPARD AVENUE EAST, SUITE 214-215
 SCARBOROUGH, ONTARIO M1S 1T6
 TEL: (416) 497-3931
 WWW.OMC.MINING.CA

Continued Next Page

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+ 3, × 3: Numbers refer to Sensitivity
 ○ = 3% Strain at Failure

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Geodetic
 BH LOCATION: N 4810014.468 E 569931.985

Method: Sonic
 Diameter: 152 mm
 Date: Dec-14-2021 to Dec-14-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | PLASTIC LIMIT W _p | NATURAL MOISTURE CONTENT w | LIQUID LIMIT W _L | POCKET PEN. (C _u) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) |
|-----------------------|--|---------|------|--------------------|-------------------------|-----------|--|----|---------------------------------|-------------------------------|--------------------------------|-------------------------------------|--------------------------------------|---|
| (m) ELEV. DEPTH | DESCRIPTION | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 | 40 | | | | | | |
| Continued | | | | | | | | | | | | | | |
| 16 | Light brown SANDY GRAVEL TO GRAVELLY SAND, trace to some cobble, trace silt, moist to dry. | 11 | CC | | | | | | | | | | | 60 28 (7) |
| | Some cobble at 12.6 m depth. (Continued) | | | | | | | | | | | | | |
| 17 | | 12 | CC | | | | | | | | | | | 54 31 (7) |
| 18 | | 13 | CC | | | | | | | | | | | 60 31 (9) |
| 19 | | | | | | | | | | | | | | |
| 308.3 | | | | | | | | | | | | | | |
| 19.7 | Light brown SANDY SILT TILL, trace gravel, DTPL. | 14 | CC | | | | | | | | | | | |
| | Becoming grey below 21.2 m depth. | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | |
| 21 | | 15 | CC | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | |
| 305.4 | | | | | | | | | | | | | | |
| 22.6 | | | | | | | | | | | | | | |

W. L. 308.70 m
Dec 15, 2021

DATE PLOTTED: 11/15/2021 10:58 AM
DRAWN BY: J. W. WILSON
CHECKED BY: J. W. WILSON
SCALE: 1:1

GROUNDWATER ELEVATIONS
 Measurement 1st 2nd 3rd 4th

GRAPH NOTES + 3, × 3: Numbers refer to Sensitivity ○ ● = 3% Strain at Failure



LOG OF BOREHOLE MW21-03-D (SAF)

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Geodetic
 BH LOCATION: N 4810679.784 E 570037.809

Method: Sonic
 Diameter: 152 mm
 Date: Dec-13-2021 to Dec-13-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | PLASTIC LIMIT W _p | NATURAL MOISTURE CONTENT w | LIQUID LIMIT W _L | POCKET PEN. (C _u) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | | | | | | | | | | |
|-----------------|--|-------------|--------|------|-------------------------|-----------|--|----|---------------------------------|-------------------------------|--------------------------------|-------------------------------------|--------------------------------------|---|----|----|----|-----|----|----|----|----|-----|------------|
| (m) ELEV. DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | | | "N" BLOWS / 0.3 m | 20 | | | | | | | 40 | 60 | 80 | 100 | 20 | 40 | 60 | 80 | 100 | 10 |
| 321.4 | Ground Surface | | | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | Dark brown sandy silt TOPSOIL, WTPL. | | 1 | CC | | | | | | | | | | | | | | | | | | | | |
| 320.7 | Grey-brown SANDY SILT, trace clay, DTPL, rust orange staining. Light brown GRAVELLY SAND, some silt, wet. | | 2 | CC | | | | | | | | | | | | | | | | | | | | 19 53 (28) |
| 320.3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 1.1 | No Recovery. | | 3 | CC | | | | | | | | | | | | | | | | | | | | |
| 319.0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.4 | Light brown SAND, trace to some gravel, trace silt, saturated. 10 cm layer of sandy gravel at 5.2 m depth. | | 4 | CC | | | | | | | | | | | | | | | | | | | | 12 75 (13) |
| 317.5 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4.0 | Greyish-brown SILT, some clay to clayey, occasional fine sand lenses (saturated), laminated, WTPL. | | 5 | CC | | | | | | | | | | | | | | | | | | | | 0 0 (100) |
| 315.9 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5.5 | Greyish-brown SILTY SAND TILL, some to trace gravel, some to trace cobble, moist to wet. Rusty orange staining and cohesive at 15.2 m depth. | | 6A | CC | | | | | | | | | | | | | | | | | | | | 0 7 (93) |
| 313.3 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8.1 | | | 6B | CC | | | | | | | | | | | | | | | | | | | | 18 34 (48) |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 7 | CC | | | | | | | | | | | | | | | | | | | | 30 32 (26) |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 8 | CC | | | | | | | | | | | | | | | | | | | | 42 32 (26) |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 9 | CC | | | | | | | | | | | | | | | | | | | | 23 48 (29) |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 10A | CC | | | | | | | | | | | | | | | | | | | | 23 54 (23) |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | 10B | CC | | | | | | | | | | | | | | | | | | | | 24 37 (28) |
| | | | | | | | | | | | | | | | | | | | | | | | | |

W. L. 307.43 m
 Dec 15, 2021

Continued Next Page

GROUNDWATER ELEVATIONS

Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+ 3, × 3: Numbers refer to Sensitivity
 ○ ● = 3% Strain at Failure

ONTARIO MINING COMMISSION
 2021-12-15 10:00 AM
 PROJECT: MW21-03-D (SAF)
 SHEET: 21-03-D-1

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Geodetic
 BH LOCATION: N 4810679.784 E 570037.809

Method: Sonic
 Diameter: 152 mm
 Date: Dec-13-2021 to Dec-13-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | | | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) |
|-----------------|--|-------------|--------|------|-------------------------|-----------|--|----------------------|--|--|------------------------|--------------------------------------|---|
| (m) ELEV. DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | | | "N" BLOWS / 0.3 m | SHEAR STRENGTH (kPa) | | | | | |
| Continued | | | | | | | | | | | | | |
| 16 | Greyish-brown SILTY SAND TILL, some to trace gravel, some to trace cobble, moist to wet. | | 11 | CC | | | | | | | | | 36 39 (25) |
| 17 | Rusty orange staining and cohesive at 15.2 m depth. (Continued) | | 12 | CC | | | | | | | | | 35 36 (29) |
| 18 | Greyish-brown to light brown GRAVELLY SAND, occasional fine sand/silt lenses, saturated. | | 13 | CC | | | | | | | | | 18 66 (16) |
| 19 | | | 14A | CC | | | | | | | | | 21 62 (17) |
| 20 | Light brown-beige COBBLY SAND AND GRAVEL, trace silt, saturated. | | 14B | CC | | | | | | | | | 48 28 (6) |
| 21 | 7 cm thick rusty orange silt lense at 21.6 m depth. | | 15 | CC | | | | | | | | | 52 34 (14) |
| 22 | | | 16 | CC | | | | | | | | | 74 16 (4) |
| 23 | | | 17 | CC | | | | | | | | | 61 19 (5) |
| 24 | | | | | | | | | | | | | |
| 25 | Brown, finely crystalline DOLOSTONE BEDROCK. | | 18 | CC | | | | | | | | | |
| 26 | | | 19 | CC | | | | | | | | | |
| 27 | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | |

DRAWN BY: M. COLEMAN / DATE: 01/13/2022 / SHEET: 24-25

GROUNDWATER ELEVATIONS
 Measurement

GRAPH NOTES + 3, x 3: Numbers refer to Sensitivity ○ ● = 3% Strain at Failure



LOG OF BOREHOLE MW21-03-S (SAF)

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Geodetic
 BH LOCATION: N 4810677.934 E 570039.545

Method: Sonic
 Diameter: 152 mm
 Date: Dec-13-2021 to Dec-14-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | | | PLASTIC LIMIT | NATURAL MOISTURE CONTENT | LIQUID LIMIT | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | | | | |
|-----------------|---|-------------|--------|------|-------------------------|-----------|--|----------------------|--|--|---------------|--------------------------|--------------|------------------------|--------------------------------------|---|----------------|---|----------------|------------|
| (m) ELEV. DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | | | "N" BLOWS 0.3 m | SHEAR STRENGTH (kPa) | | | | | | | | | W _p | w | W _L | GR |
| 321.4 | Ground Surface | | | | | | | | | | | | | | | | | | | |
| 0.0 | Dark brown sandy silt TOPSOIL, WTPL. | | 1 | CC | | | | | | | | | | | | | | | | |
| 320.6 | Grey-brown SANDY SILT, trace clay, DTPL, rust orange staining. Light brown GRAVELLY SAND, some silt, wet. | | 2 | CC | | | | | | | | | | | | | | | | |
| 320.3 | | | | | | | | | | | | | | | | | | | | |
| 1.1 | | | | | | | | | | | | | | | | | | | 19 53 (28) | |
| 318.9 | No Recovery. | | 3 | CC | | | | | | | | | | | | | | | | |
| 317.4 | Light brown SAND, trace to some gravel, trace silt, saturated. 10 cm layer of sandy gravel at 5.2 m depth. | | 4 | CC | | | | | | | | | | | | | | | | |
| 4.0 | | | | | | | | | | | | | | | | | | | | |
| 315.9 | | | | | | | | | | | | | | | | | | | | 12 75 (13) |
| 5.5 | | | | | | | | | | | | | | | | | | | | |

W. L. 319.43 m
 Dec 15, 2021

GROUNDWATER ELEVATIONS
 Measurement 1st 2nd 3rd 4th

GRAPH NOTES
 + 3, x 3: Numbers refer to Sensitivity
 ○ ● = 3% Strain at Failure

ONTARIO MINING ASSOCIATION
 2021-01-15 10:00 AM
 MW21-03-S (SAF) 24-25



LOG OF BOREHOLE MW21-04 (SAF)

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Geodetic
 BH LOCATION: N 4810448.223 E 570309.851

Method: Sonic
 Diameter: 152 mm
 Date: Dec-13-2021 to Dec-14-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | PLASTIC LIMIT W _p | NATURAL MOISTURE CONTENT w | LIQUID LIMIT W _L | POCKET PEN. (C _u) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) GR SA SI CL |
|----------------------|---|-------------|---------|------|--------------------|-------------------------|-----------|--|----|---------------------------------|-------------------------------|--------------------------------|-------------------------------------|--------------------------------------|--|
| (m) ELEV DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 | 40 | | | | | | |
| 327.9 | Ground Surface | | | | | | | | | | | | | | |
| 0.0 327.6 0.3 | Dark brown sandy silt TOPSOIL, rootlets, APL. Light brown CLAYEY SILT TILL, some gravel, some sand, DTPL to APL. | | 1 | CC | | | | | | | | | | | 25 25 (50) |
| | | | 2 | CC | | | | | | | | | | | 27 32 (41) |
| | | | 3A | CC | | | | | | | | | | | 6 38 (56) |
| 324.7 3.2 | Light brown SAND AND GRAVEL, trace to some cobble, trace silt, moist, poorly sorted. | | 3B | CC | | | | | | | | | | | 54 28 (12) |
| | | | 4 | CC | | | | | | | | | | | 58 26 (7) |
| | | | 5 | CC | | | | | | | | | | | 51 37 (12) |
| | | | 6A | CC | | | | | | | | | | | 63 27 (10) |
| 319.5 8.4 | Light brown SILTY SAND TILL, some gravel, trace cobble, moist. | | 6B | CC | | | | | | | | | | | 20 39 (41) |
| | | | 7 | CC | | | | | | | | | | | 38 35 (23) |
| | | | 8B | CC | | | | | | | | | | | 41 24 (35) |
| 316.9 11.0 | Light brown GRAVELLY SAND, some silt, trace cobble, moist. | | 8A | CC | | | | | | | | | | | 43 32 (15) |
| | | | 9 | CC | | | | | | | | | | | 42 47 (11) |
| | | | 10 | CC | | | | | | | | | | | 48 39 (13) |
| 312.9 | | | | | | | | | | | | | | | |

Continued Next Page

GROUNDWATER ELEVATIONS
 Measurement 1st 2nd 3rd 4th

GRAPH NOTES

+ 3, × 3: Numbers refer to Sensitivity
 ○ = 3% Strain at Failure

ONTARIO MINING AND REVENUE BOARD
 1000 SHEPPARD AVENUE EAST, SUITE 214-215
 SCARBOROUGH, ONTARIO M1S 1T6
 TEL: (416) 291-2222 FAX: (416) 291-2223
 WWW.OMRB.ONT.GOV

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Geodetic
 BH LOCATION: N 4810448.223 E 570309.851

Method: Sonic
 Diameter: 152 mm
 Date: Dec-13-2021 to Dec-14-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | | | POCKET PEN. (Cu) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | | | | |
|-----------------|---|-------------|---------|------|-----------------|-------------------------|-----------|--|----|----|----|------------------------|--------------------------------------|---|-----|------------------------------|----------------------------|-----------------------------|
| (m) ELEV. DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 | 40 | 60 | 80 | | | | 100 | PLASTIC LIMIT W _p | NATURAL MOISTURE CONTENT W | LIQUID LIMIT W _L |
| 14.9 | Continued | | | | | | | | | | | | | | | | | |
| | Brown-beige SAND AND GRAVEL, trace to some cobble, trace fine sand/silt, moist. | | 11A | CC | | | | | | | | | | | | | | 46 36 (13) |
| | 15 cm thick layer of silt and sand at 15.7 m depth. | | 11B | CC | | | | | | | | | | | | | | 6 49 (45) |
| | Wet becoming saturated below 21.3 m depth. (Continued) | | 11A | CC | | | | | | | | | | | | | | 46 36 (13) |
| | | | 12 | CC | | | | | | | | | | | | | | 52 36 (12) |
| | | | 13 | CC | | | | | | | | | | | | | | 53 32 (11) |
| | | | 14 | CC | | | | | | | | | | | | | | 52 35 (13) |
| | | | 15 | CC | | | | | | | | | | | | | | 54 41 (5) |
| | | | 16 | CC | | | | | | | | | | | | | | 56 28 (7) |
| | | | 17 | CC | | | | | | | | | | | | | | 55 31 (6) |
| | | | 18 | CC | | | | | | | | | | | | | | 49 44 (7) |
| | | | 19 | CC | | | | | | | | | | | | | | 55 33 (12) |
| | | | 20 | CC | | | | | | | | | | | | | | 66 28 (6) |

W. L. 306.99 m
 Dec 15, 2021

ONTARIO MINING AND TECHNICAL SERVICES LTD. 2021-12-15 14:55

Continued Next Page

GROUNDWATER ELEVATIONS
 Measurement 1st 2nd 3rd 4th

GRAPH NOTES +3, X3: Numbers refer to Sensitivity ○ = 3% Strain at Failure

PROJECT: Neubauer Pit Expansion
 CLIENT: CBM Aggregates
 PROJECT LOCATION: Puslinch, Ontario
 DATUM: Geodetic
 BH LOCATION: N 4810448.223 E 570309.851

Method: Sonic
 Diameter: 152 mm
 Date: Dec-13-2021 to Dec-14-2021

REF. NO.: GLD-21476582
 ENCL NO.:
 ORIGINATED BY BC
 COMPILED BY RLW
 CHECKED BY KJF

| SOIL PROFILE | | | SAMPLES | | | GROUND WATER CONDITIONS | ELEVATION | DYNAMIC CONE PENETRATION RESISTANCE PLOT | | | | PLASTIC LIMIT W _p | NATURAL MOISTURE CONTENT w | LIQUID LIMIT W _L | POCKET PEN. (C _u) (kPa) | NATURAL UNIT WT (kN/m ³) | REMARKS AND GRAIN SIZE DISTRIBUTION (%) | | | | | | |
|-----------------------|---|-------------|---------|------|--------------------|-------------------------|-----------|--|----|----|----|---------------------------------|-------------------------------|--------------------------------|-------------------------------------|--------------------------------------|---|-----|----|----|----|----|-----------|
| (m) ELEV. DEPTH | DESCRIPTION | STRATA PLOT | NUMBER | TYPE | "N" BLOWS 0.3 m | | | 20 | 40 | 60 | 80 | | | | | | | 100 | 20 | 40 | 60 | 80 | 100 |
| Continued | | | | | | | | | | | | | | | | | | | | | | | |
| 296.0 | Greyish brown SILTY SAND TILL, trace gravel, trace cobble, moist. | | 21 | CC | | | | | | | | | | | | | | | | | | | 32 61 (7) |
| 31.9 | | | 22 | CC | | | | | | | | | | | | | | | | | | | |
| 294.6 | | | | | | | | | | | | | | | | | | | | | | | |
| 33.2 | | | | | | | | | | | | | | | | | | | | | | | |

ONTARIO MINING ASSOCIATION
 2015-2016 LOG BOREHOLE REPORTING GUIDELINES

GROUNDWATER ELEVATIONS
 Measurement

GRAPH NOTES + 3, x 3: Numbers refer to Sensitivity ○ ● = 3% Strain at Failure

**Table A-1: Monitoring Well Construction Details
Safarik Pit**

| Well ID | UTM (NAD83, Zone 17) | | Top of Pipe Elevation (mASL) | Ground Surface Elevation (mASL) | Stick-up (m) | Measured Depth (mBTOP) | Screened Interval (mBGS) | Screened Interval (mASL) |
|-----------------|----------------------|-------------|------------------------------|---------------------------------|--------------|------------------------|--------------------------|--------------------------|
| | Northing (m) | Easting (m) | | | | | | |
| MW21-01 (SAF) | 4810093.9 | 569526.2 | 317.82 | 316.95 | 0.76 | 16.01 | 12.0 - 15.2 | 305.0 - 301.8 |
| MW21-02 (SAF) | 4810014.5 | 569932.0 | 328.63 | 327.98 | 0.65 | 22.38 | 18.4 - 21.6 | 309.6 - 306.4 |
| MW21-03-D (SAF) | 4810679.8 | 570037.8 | 322.39 | 321.42 | 0.95 | 25.22 | 21.2 - 24.4 | 300.2 - 297.0 |
| MW21-03-S (SAF) | 4810677.9 | 570039.5 | 322.33 | 321.38 | 0.97 | 6.51 | 2.3 - 5.5 | 319.1 - 315.9 |
| MW21-04 (SAF) | 4810448.2 | 570309.9 | 328.82 | 327.87 | 0.88 | 25.26 | 21.2 - 24.4 | 306.7 - 303.5 |

Notes:

- mASL = metres above sea level
- mBTOP = metres below top of pipe
- mBGS = metres below ground surface

APPENDIX B

Soil Core Photographs



Photo 1 – BH21-01 (SAF) – 0 to 3 ft



Photo 2 – BH21-01 (SAF) – 3 to 8 ft



Photo 3 – BH21-01 (SAF) – 8 to 13 ft



Photo 4 – BH21-01 (SAF) – 13 to 18 ft

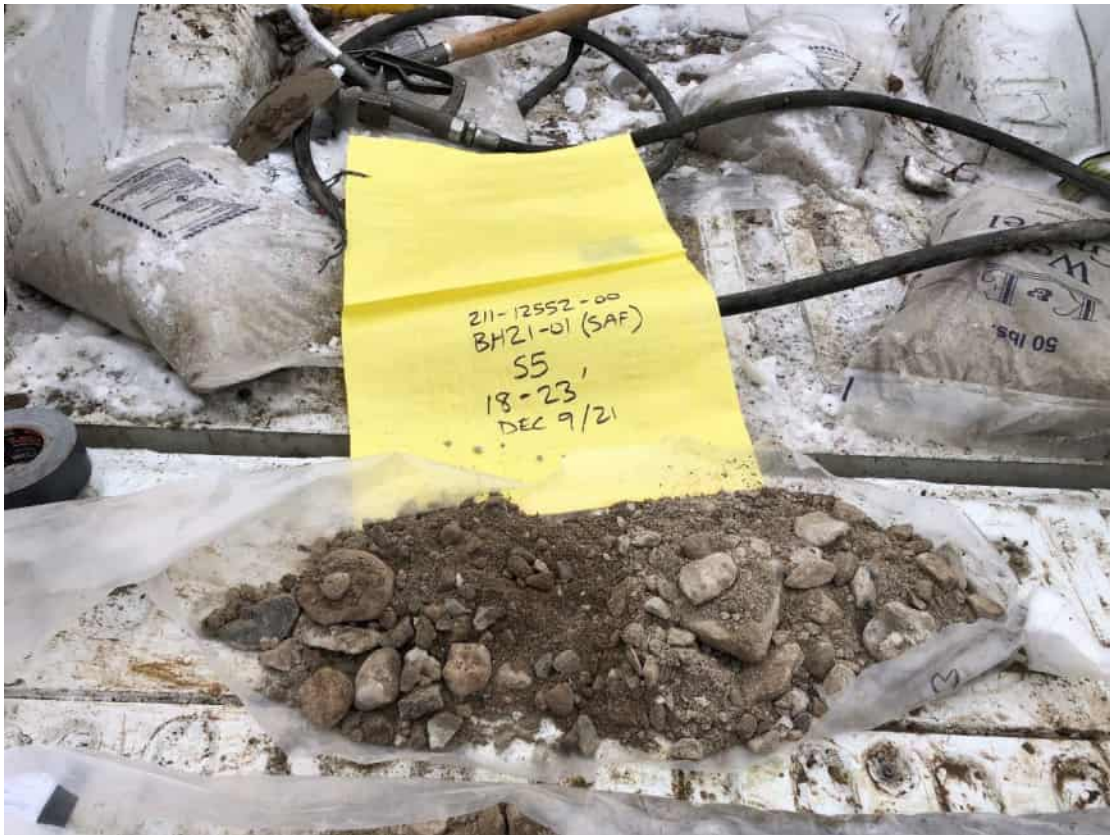


Photo 5 – BH21-01 (SAF) – 18 to 23 ft



Photo 6 – BH21-01 (SAF) – 23 to 28 ft

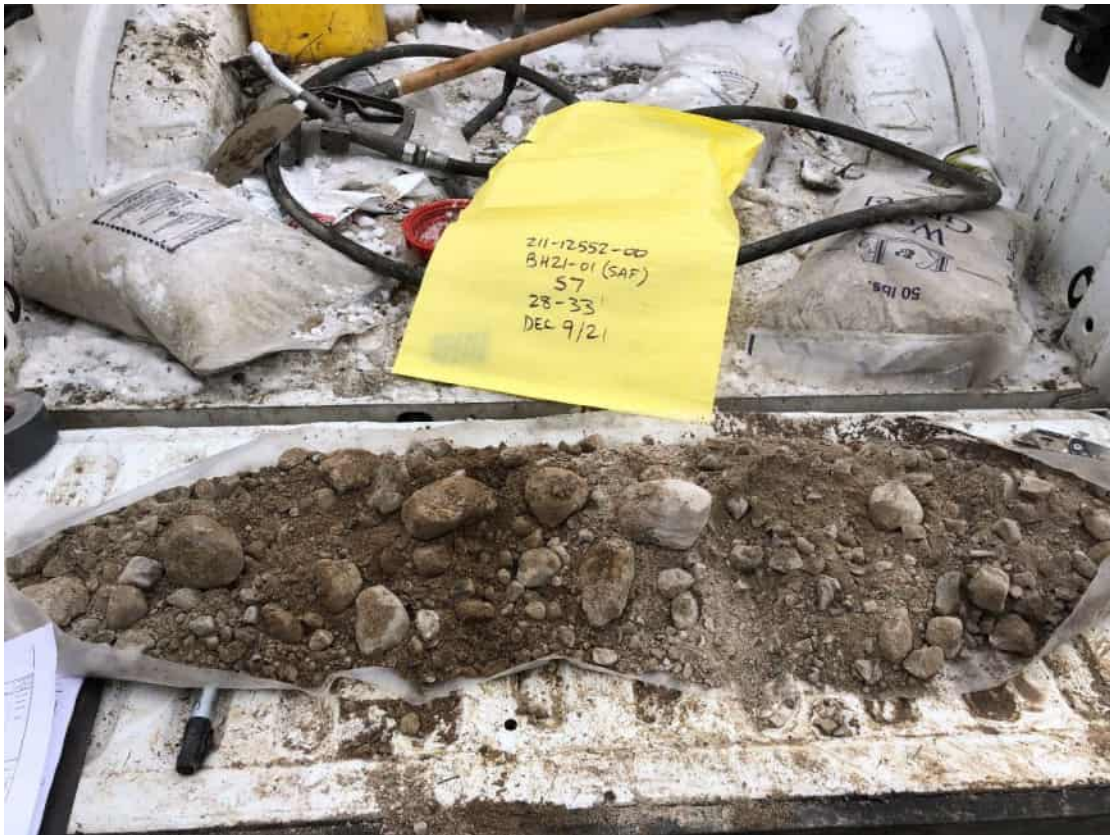


Photo 7 – BH21-01 (SAF) – 28 to 33 ft

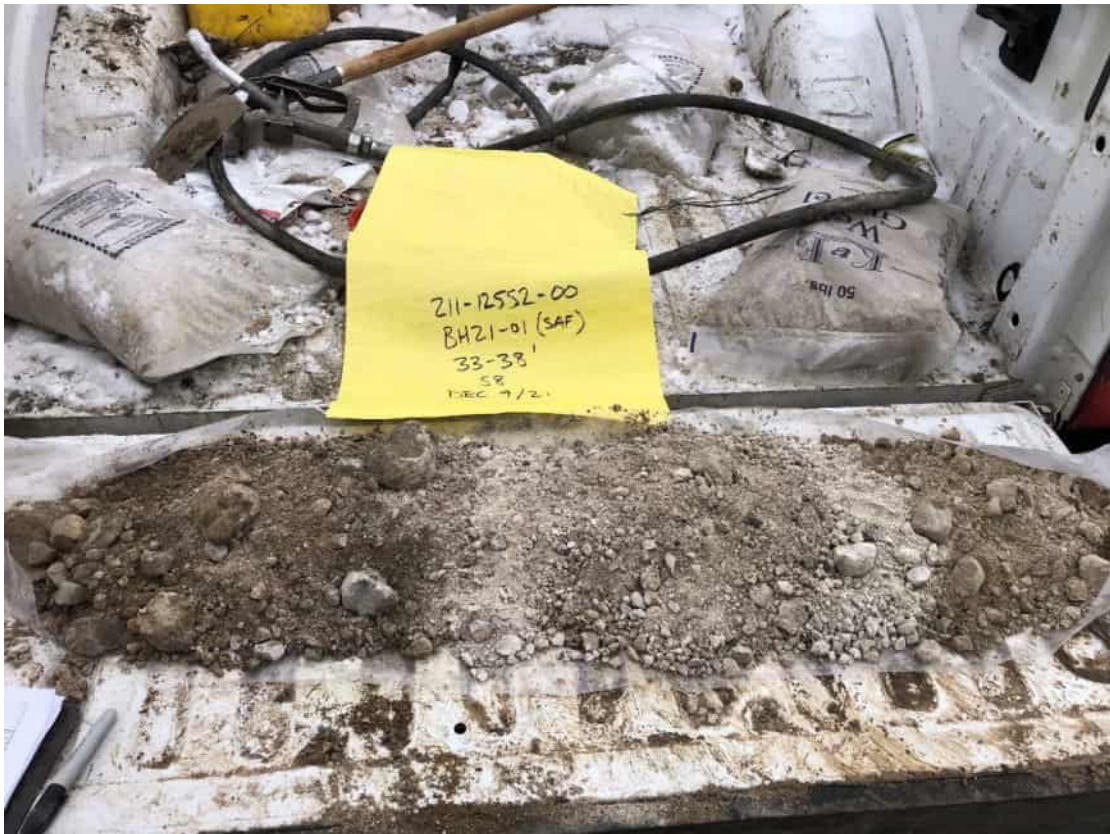


Photo 8 – BH21-01 (SAF) – 33 to 38 ft

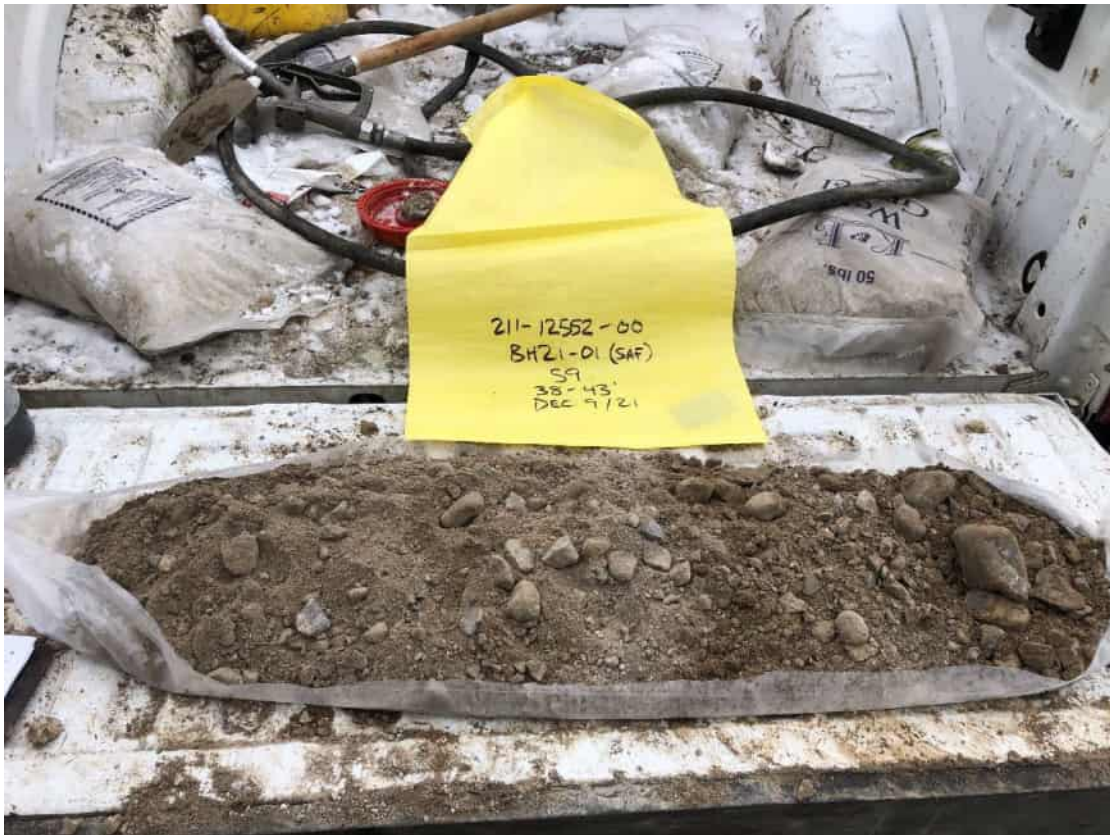


Photo 9 – BH21-01 (SAF) – 38 to 43 ft



Photo 10 – BH21-01 (SAF) – 43 to 48 ft



Photo 11 – BH21-01 (SAF) – 48 to 53 ft



Photo 12 – BH21-01 (SAF) – 53 to 58 ft



Photo 13 – BH21-01 (SAF) – 58 to 63 ft

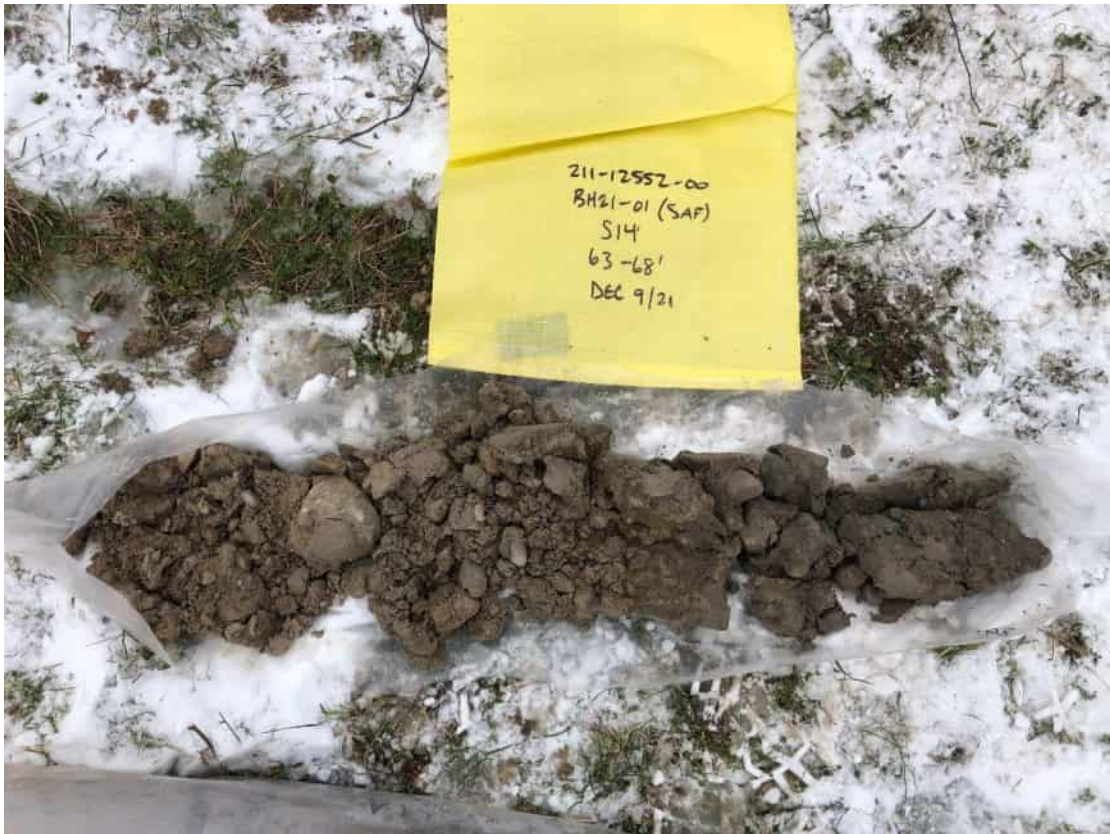


Photo 14 – BH21-01 (SAF) – 63 to 68 ft



Photo 15 – BH21-01 (SAF) – 68 to 73 ft



Photo 16 – BH21-01 (SAF) – 73 to 78 ft



Photo 17 – BH21-01 (SAF) – 78 to 83 ft

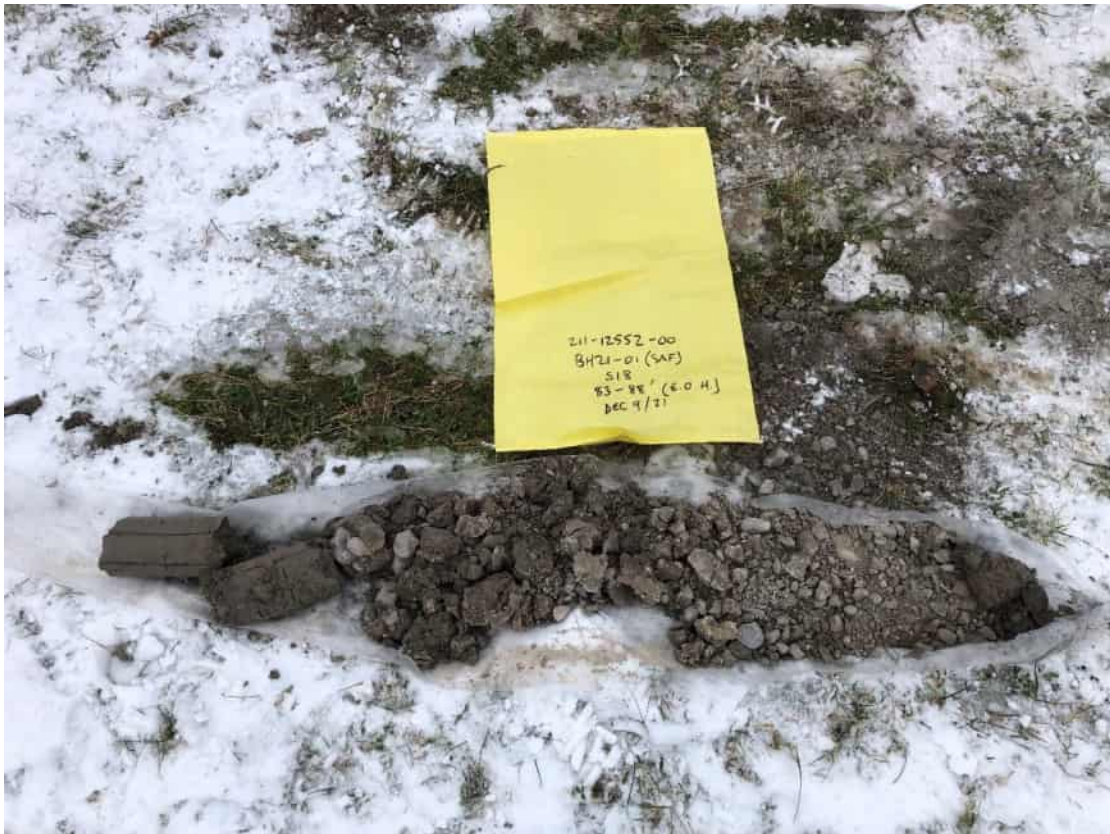


Photo 18 – BH21-01 (SAF) – 83 to 88 ft (end of borehole)



Photo 19 – BH21-02 (SAF) – 0 to 3 ft



Photo 20 – BH21-02 (SAF) – 3 to 8 ft



Photo 21 – BH21-02 (SAF) – 8 to 13 ft



Photo 22 – BH21-02 (SAF) – 13 to 18 ft



Photo 23 – BH21-02 (SAF) – 18 to 23 ft



Photo 24 – BH21-02 (SAF) – 23 to 28 ft



Photo 25 – BH21-02 (SAF) – 28 to 33 ft



Photo 26 – BH21-02 (SAF) – 33 to 38 ft



Photo 27 – BH21-02 (SAF) – 38 to 43 ft



Photo 28 – BH21-02 (SAF) – 43 to 48 ft

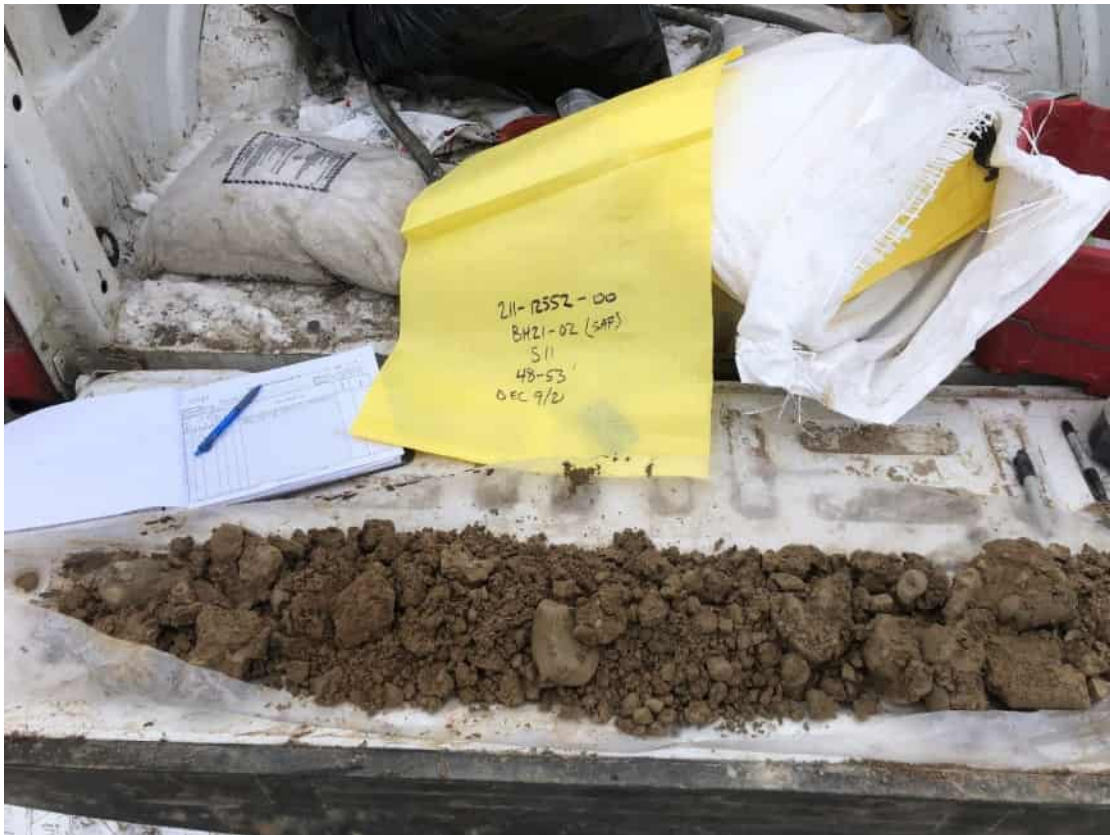


Photo 29 – BH21-02 (SAF) – 48 to 53 ft



Photo 30 – BH21-02 (SAF) – 53 to 58 ft



Photo 31 – BH21-02 (SAF) – 58 to 63 ft



Photo 32 – BH21-02 (SAF) – 63 to 68 ft



Photo 33 – BH21-02 (SAF) – 68 to 73 ft



Photo 34 – BH21-02 (SAF) – 73 to 78 ft



Photo 35 – BH21-02 (SAF) – 78 to 83 ft



Photo 36 – BH21-02 (SAF) – 83 to 98 ft (end of borehole)



Photo 37 – BH21-03 (SAF) – 0 to 3 ft



Photo 38 – BH21-03 (SAF) – 3 to 8 ft



Photo 39 – BH21-03 (SAF) – 8 to 13 ft



Photo 40 – BH21-03 (SAF) – 13 to 18 ft



Photo 41 – BH21-03 (SAF) – 18 to 23 ft



Photo 42 – BH21-03 (SAF) – 23 to 28 ft



Photo 43 – BH21-03 (SAF) – 28 to 33 ft



Photo 44 – BH21-03 (SAF) – 33 to 38 ft



Photo 45 – BH21-03 (SAF) – 38 to 43 ft



Photo 46 – BH21-03 (SAF) – 43 to 48 ft



Photo 47 – BH21-03 (SAF) – 48 to 53 ft



Photo 48 – BH21-03 (SAF) – 53 to 58 ft



Photo 49 – BH21-03 (SAF) – 58 to 63 ft



Photo 50 – BH21-03 (SAF) – 63 to 68 ft



Photo 51 – BH21-03 (SAF) – 68 to 73 ft



Photo 52 – BH21-03 (SAF) – 73 to 78 ft



Photo 53 – BH21-03 (SAF) – 78 to 83 ft



Photo 54 – BH21-03 (SAF) – 83 to 88 ft



Photo 55 – BH21-03 (SAF) – 88 to 93 ft

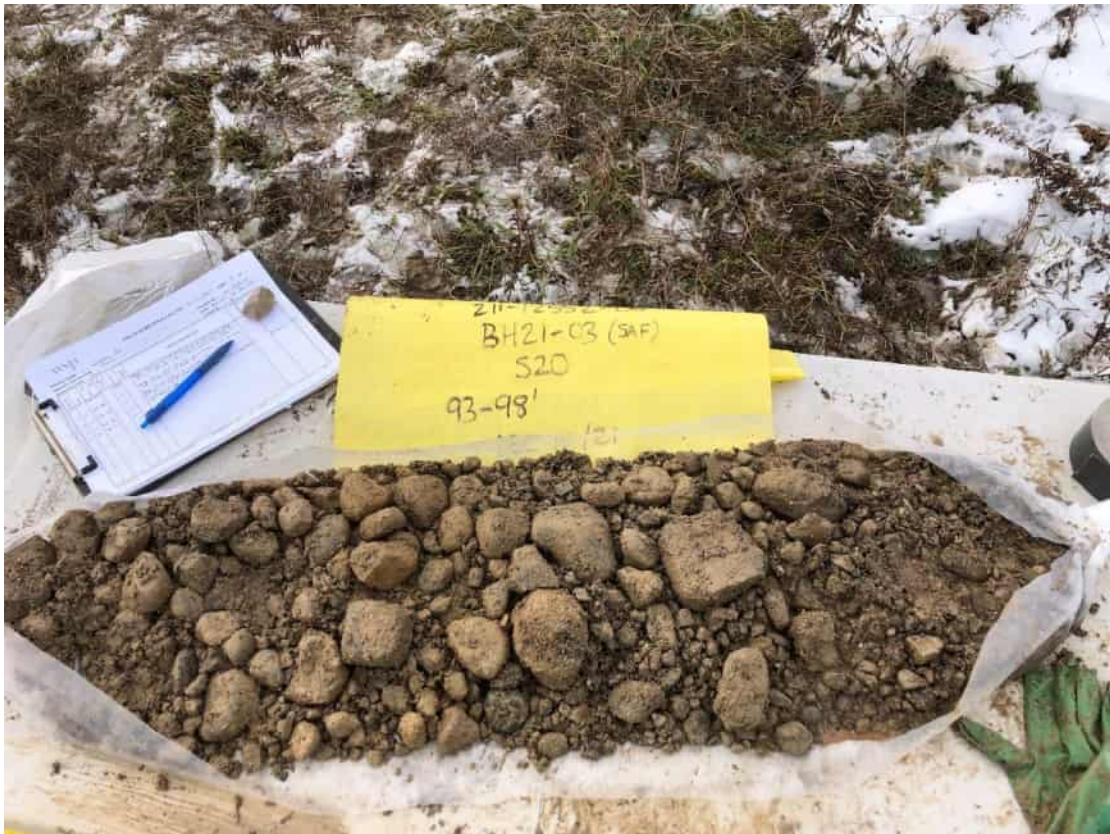


Photo 56 – BH21-03 (SAF) – 93 to 98 ft



Photo 57 – BH21-03 (SAF) – 98 to 103 ft

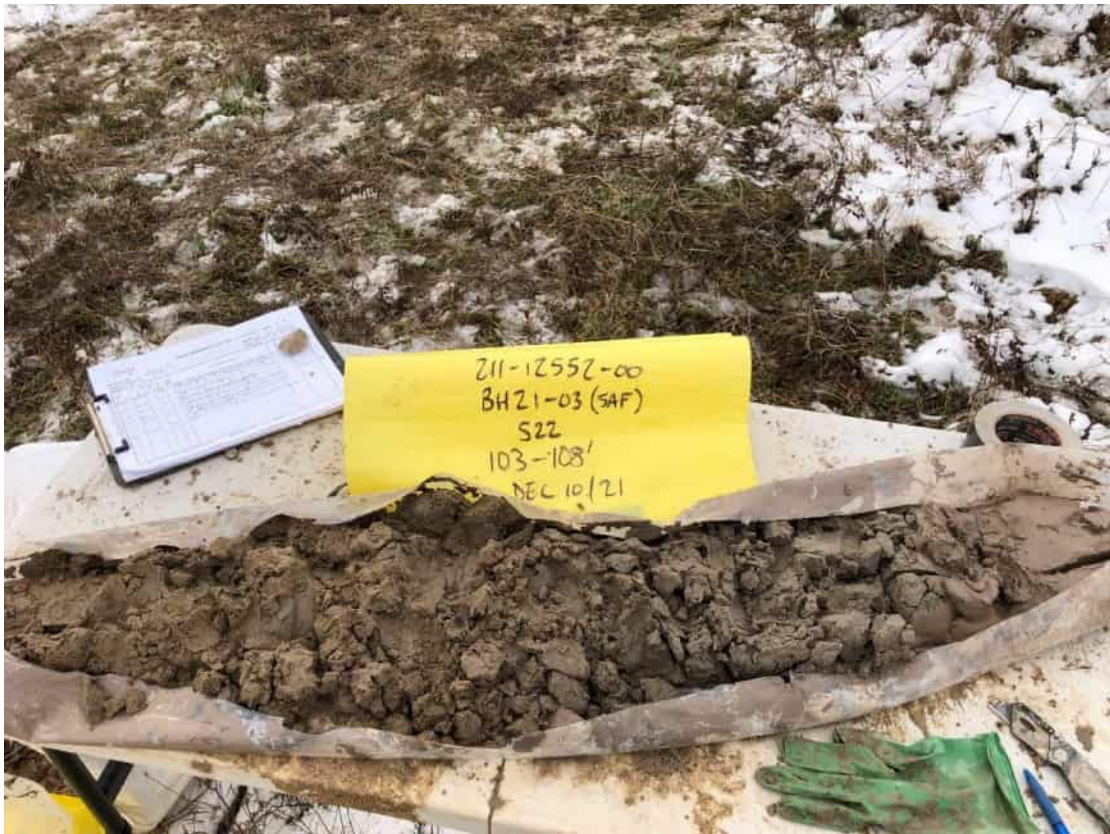


Photo 58 – BH21-03 (SAF) – 103 to 108 ft



Photo 59 – BH21-03 (SAF) – 108 to 118 ft (end of borehole)



Photo 60 – BH21-04 (SAF) – 0 to 3 ft



Photo 61 – BH21-04 (SAF) – 3 to 8 ft



Photo 62 – BH21-04 (SAF) – 8 to 13 ft



Photo 63 – BH21-04 (SAF) – 13 to 18 ft



Photo 64 – BH21-04 (SAF) – 18 to 23 ft



Photo 65 – BH21-04 (SAF) – 23 to 28 ft



Photo 66 – BH21-04 (SAF) – 28 to 33 ft



Photo 67 – BH21-04 (SAF) – 33 to 38 ft



Photo 68 – BH21-04 (SAF) – 38 to 43 ft



Photo 69 – BH21-04 (SAF) – 43 to 48 ft



Photo 70 – BH21-04 (SAF) – 48 to 53 ft



Photo 71 – BH21-04 (SAF) – 53 to 58 ft



Photo 72 – BH21-04 (SAF) – 58 to 63 ft



Photo 73 – BH21-04 (SAF) – 63 to 68 ft (*bag mislabelled)



Photo 74 – BH21-04 (SAF) – 68 to 73 ft (*bag mislabelled)



Photo 75 – BH21-04 (SAF) – 73 to 78 ft (*bag mislabelled)



Photo 76 – BH21-04 (SAF) – 78 to 83 ft



Photo 77 – BH21-04 (SAF) – 83 to 88 ft



Photo 78 – BH21-04 (SAF) – 88 to 93 ft



Photo 79 – BH21-04 (SAF) – 93 to 98 ft



Photo 80 – BH21-04 (SAF) – 98 to 103 ft (*end of borehole at 108 ft)



Photo 81 – MW21-01 (SAF) – 0 to 3 ft



Photo 82 – MW21-01 (SAF) – 3 to 8 ft



Photo 83 – MW21-01 (SAF) – 8 to 14 ft



Photo 84 – MW21-01 (SAF) – 14 to 19 ft



Photo 85 – MW21-01 (SAF) – 19 to 24 ft



Photo 86 – MW21-01 (SAF) – 24 to 29 ft



Photo 87 – MW21-01 (SAF) – 29 to 34 ft



Photo 88 – MW21-01 (SAF) – 34 to 39 ft



Photo 89 – MW21-01 (SAF) – 39 to 44 ft



Photo 90 – MW21-01 (SAF) – 49 to 54 ft



Photo 91 – MW21-01 (SAF) – 54 to 59 ft

[MW21-01 (SAF) - 59 to 69 ft not photographed]



Photo 92 – MW21-01 (SAF) – 69 to 74 ft



Photo 93 – MW21-01 (SAF) – 74 to 79 ft



Photo 94 – MW21-01 (SAF) – 79 to 83 ft (end of borehole)



Photo 95 – MW21-02 (SAF) – 0 to 3 ft



Photo 96 – MW21-02 (SAF) – 3 to 8 ft



Photo 97 – MW21-02 (SAF) – 8 to 13 ft



Photo 98 – MW21-02 (SAF) – 13 to 18 ft



Photo 99 – MW21-02 (SAF) – 18 to 23 ft



Photo 100 – MW21-02 (SAF) – 23 to 28 ft



Photo 101 – MW21-02 (SAF) – 28 to 33 ft



Photo 102 – MW21-02 (SAF) – 33 to 38 ft



Photo 103 – MW21-02 (SAF) – 38 to 43 ft



Photo 104 – MW21-02 (SAF) – 43 to 48 ft



Photo 105 – MW21-02 (SAF) – 48 to 53 ft



Photo 106 – MW21-02 (SAF) – 53 to 58 ft



Photo 107 – MW21-02 (SAF) – 58 to 63 ft



Photo 108 – MW21-02 (SAF) – 63 to 68 ft



Photo 109 – MW21-02 (SAF) – 68 to 74 ft



Photo 110 – MW21-03 (SAF) – 0 to 3 ft



Photo 111 – MW21-03 (SAF) – 8 to 13 ft



Photo 112 – MW21-03 (SAF) – 13 to 18 ft



Photo 113 – MW21-03 (SAF) – 18 to 23 ft



Photo 114 – MW21-03 (SAF) – 23 to 28 ft



Photo 115 – MW21-03 (SAF) – 28 to 33 ft



Photo 116 – MW21-03 (SAF) – 33 to 38 ft



Photo 117 – MW21-03 (SAF) – 38 to 43 ft

[MW21-03 (SAF) – 43 to 48 ft not photographed]



Photo 118 – MW21-03 (SAF) – 48 to 53 ft



Photo 119 – MW21-03 (SAF) – 53 to 58 ft



Photo 120 – MW21-03 (SAF) – 58 to 63 ft



Photo 121 – MW21-03 (SAF) – 63 to 68 ft



Photo 122 – MW21-03 (SAF) – 68 to 73 ft



Photo 123 – MW21-03 (SAF) – 73 to 78 ft



Photo 124 – MW21-03 (SAF) – 78 to 83 ft



Photo 125 – MW21-03 (SAF) – 83 to 92 ft (end of borehole)



Photo 126 – MW21-04 (SAF) – 0 to 4 ft



Photo 127 – MW21-04 (SAF) – 4 to 9 ft



Photo 128 – MW21-04 (SAF) – 9 to 14 ft



Photo 129 – MW21-04 (SAF) – 14 to 19 ft



Photo 130 – MW21-04 (SAF) – 19 to 24 ft



Photo 131 – MW21-04 (SAF) – 24 to 29 ft



Photo 132 – MW21-04 (SAF) – 29 to 34 ft



Photo 133 – MW21-04 (SAF) – 34 to 39 ft



Photo 134 – MW21-04 (SAF) – 39 to 44 ft



Photo 135 – MW21-04 (SAF) – 44 to 49 ft



Photo 136 – MW21-04 (SAF) – 49 to 54 ft



Photo 137 – MW21-04 (SAF) – 54 to 59 ft



Photo 138 – MW21-04 (SAF) – 59 to 64 ft



Photo 139 – MW21-04 (SAF) – 64 to 69 ft



Photo 140 – MW21-04 (SAF) – 69 to 74 ft



Photo 141 – MW21-04 (SAF) – 74 to 79 ft

[MW21-04 (SAF) – 79 to 84 ft not photographed]



Photo 142 – MW21-04 (SAF) – 84 to 89 ft

[MW21-04 (SAF) – 89 to 94 ft not photographed]



Photo 143 – MW21-04 (SAF) – 94 to 99 ft



Photo 144 – MW21-04 (SAF) – 99 to 104 ft



Photo 145 – MW21-04 (SAF) – 104 to 109 ft (end of borehole)

APPENDIX C

Laboratory Gradation Reports

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 2533.6(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 13.2mm | 0.00 | 0.00 | 13.20 | 100.0 |
| 9.5mm | 0.00 | 0.00 | 9.50 | 100.0 |
| 4.75mm | 0.00 | 0.00 | 4.75 | 100.0 |
| PAN | 2533.60 | 100.00 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 1.80 | 0.62 | 2.36 | 99.4 |
| 1.18mm | 5.70 | 1.35 | 1.18 | 98.0 |
| 600µm | 21.60 | 5.50 | 0.60 | 92.5 |
| 300µm | 59.90 | 13.26 | 0.30 | 79.3 |
| 150µm | 110.20 | 17.41 | 0.15 | 61.9 |
| 75µm | 148.50 | 13.26 | 0.08 | 48.6 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-01
Sample Number 1B
Checked By _____

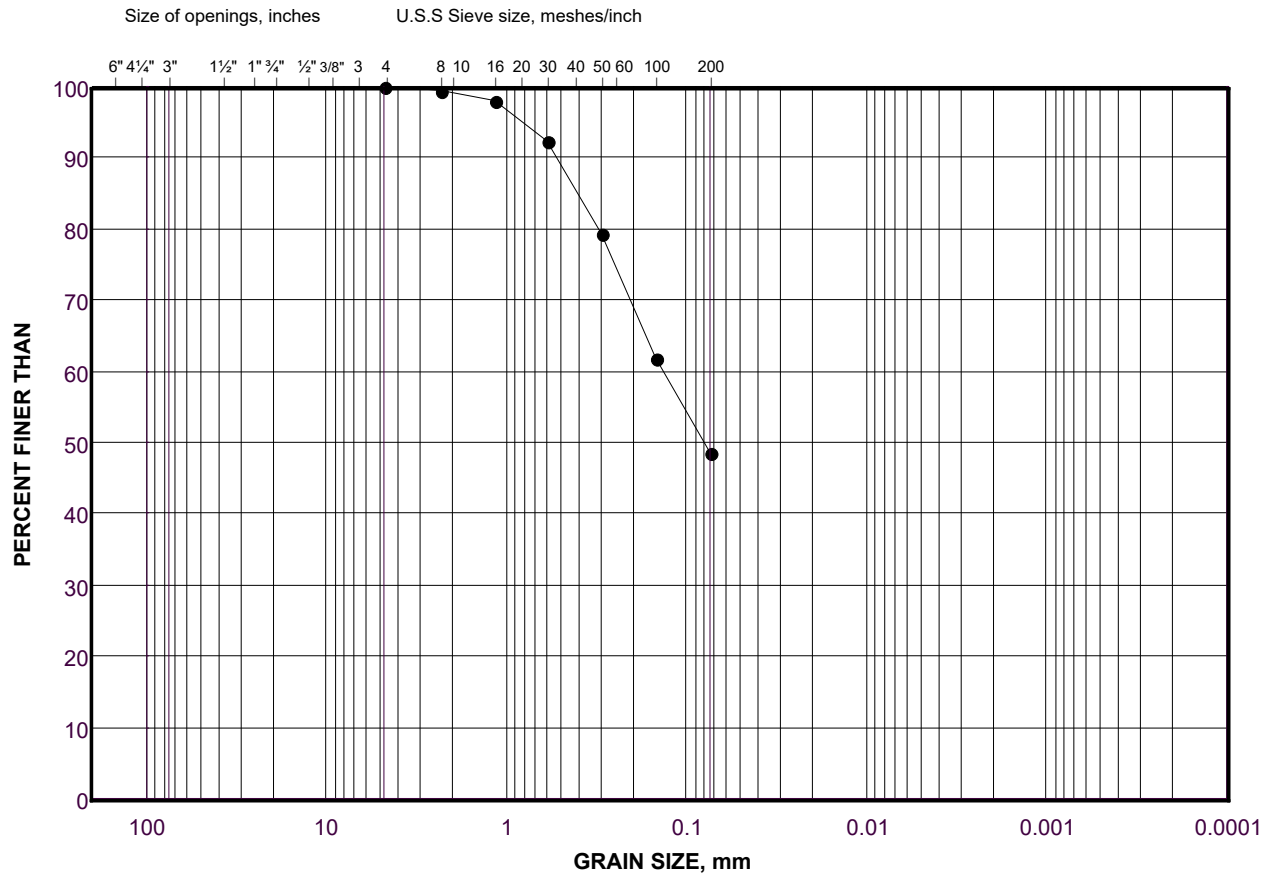
Depth 3
Units Metric
Testing Date 3/24/22 10:25:02 AM
Tested By Sieve - LB
LabID 22-555

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|--------|-------------|------|-----------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-----------|
| • | BH 21-01 | 1B | 2.0 - 3.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 04-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 14049.3(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 935.70 | 6.66 | 75.00 | 93.3 |
| 63mm | 935.70 | 0.00 | 63.00 | 93.3 |
| 53mm | 935.70 | 0.00 | 53.00 | 93.3 |
| 37.5mm | 1191.40 | 1.82 | 37.50 | 91.5 |
| 26.5mm | 1341.80 | 1.07 | 26.50 | 90.5 |
| 19.0mm | 1963.20 | 4.42 | 19.00 | 86.0 |
| 16mm | 1994.10 | 0.22 | 16.00 | 85.8 |
| 13.2mm | 2174.80 | 1.29 | 13.20 | 84.5 |
| 9.5mm | 2749.50 | 4.09 | 9.50 | 80.4 |
| 4.75mm | 3909.70 | 8.26 | 4.75 | 72.2 |
| PAN | 10093.00 | 72.17 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 22.40 | 5.62 | 2.36 | 66.6 |
| 1.18mm | 46.60 | 6.08 | 1.18 | 60.5 |
| 600µm | 71.00 | 6.13 | 0.60 | 54.3 |
| 300µm | 96.10 | 6.30 | 0.30 | 48.0 |
| 150µm | 123.10 | 6.78 | 0.15 | 41.3 |
| 75µm | 151.10 | 7.03 | 0.08 | 34.2 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-01
Sample Number 2
Checked By _____

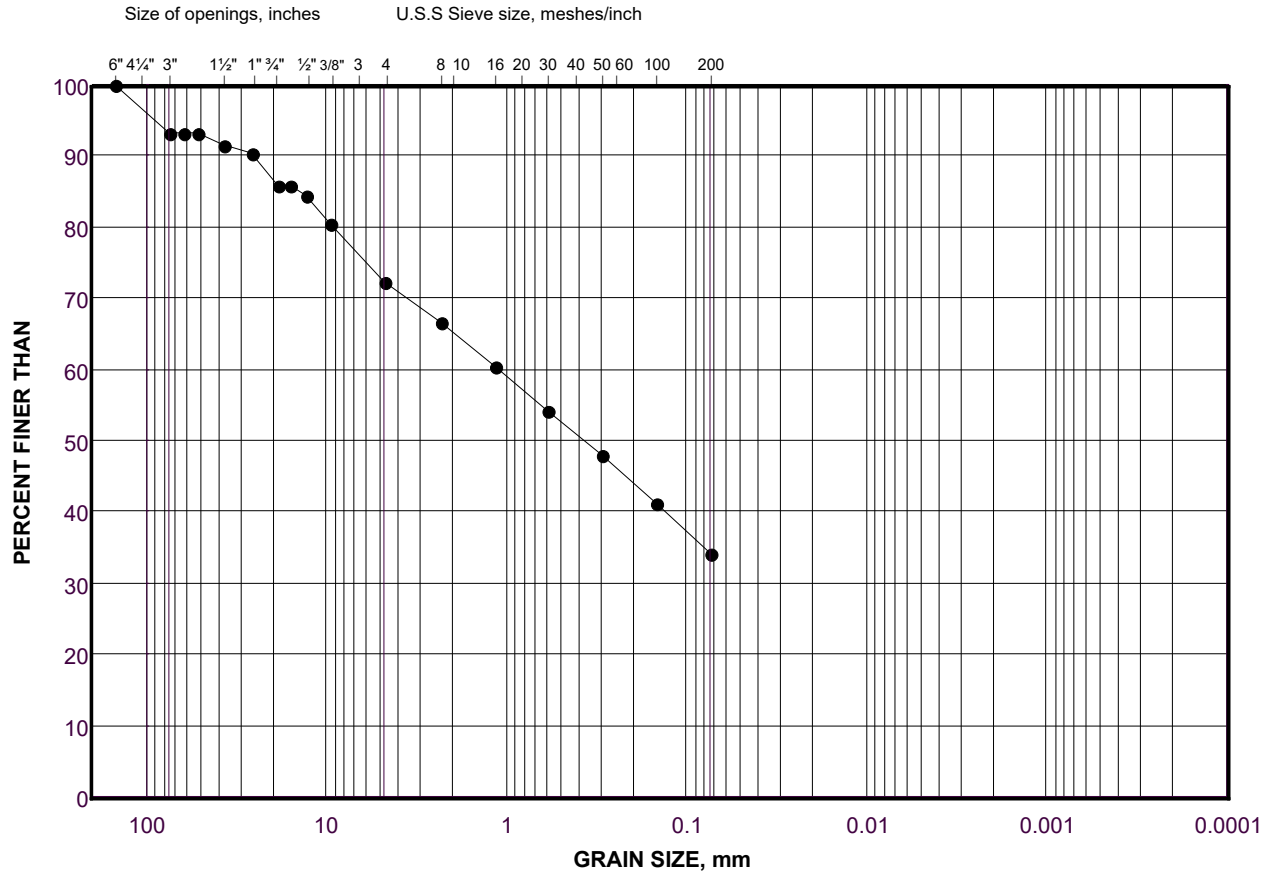
Depth 8
Units Imperial
Testing Date 3/24/22 10:29:15 AM
Tested By Sieve - AM
LabID 22-211

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-----------|
| ● | BH 21-01 | 2 | 3.0 - 8.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 04-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 21871(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1648.00 | 7.54 | 75.00 | 92.5 |
| 63mm | 2070.00 | 1.93 | 63.00 | 90.5 |
| 53mm | 2290.00 | 1.01 | 53.00 | 89.5 |
| 37.5mm | 4314.00 | 9.25 | 37.50 | 80.3 |
| 26.5mm | 4976.00 | 3.03 | 26.50 | 77.2 |
| 19.0mm | 5758.00 | 3.58 | 19.00 | 73.7 |
| 16mm | 6282.00 | 2.40 | 16.00 | 71.3 |
| 13.2mm | 6752.00 | 2.15 | 13.20 | 69.1 |
| 9.5mm | 7640.00 | 4.06 | 9.50 | 65.1 |
| 4.75mm | 9116.00 | 6.75 | 4.75 | 58.3 |
| PAN | 12755.00 | 58.30 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 24.21 | 4.16 | 2.36 | 54.1 |
| 1.18mm | 54.35 | 5.18 | 1.18 | 49.0 |
| 600µm | 88.37 | 5.85 | 0.60 | 43.1 |
| 300µm | 125.80 | 6.43 | 0.30 | 36.7 |
| 150µm | 164.32 | 6.62 | 0.15 | 30.1 |
| 75µm | 201.34 | 6.36 | 0.08 | 23.7 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-01
Sample Number 3
Checked By _____

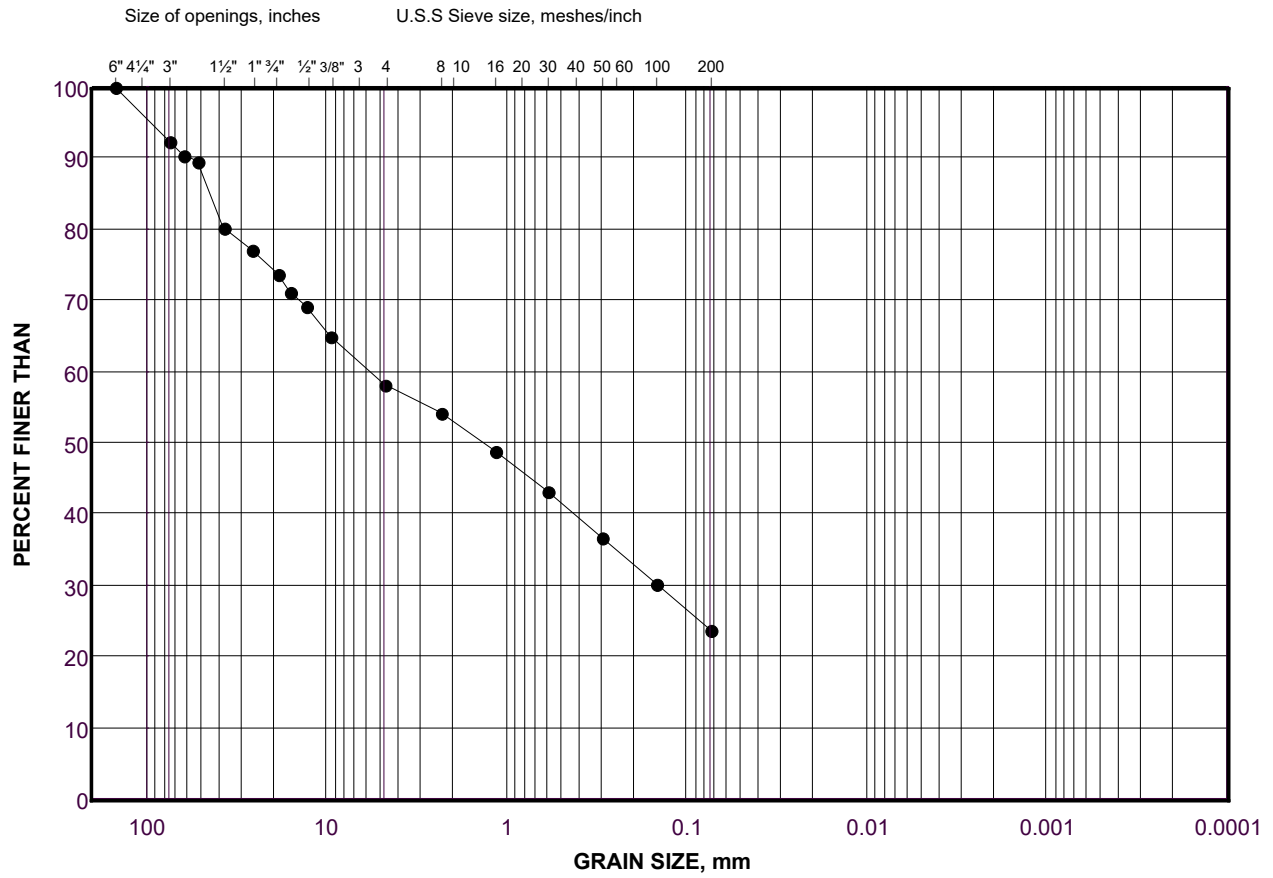
Depth 13
Units Imperial
Testing Date 3/24/22 10:37:51 AM
Tested By Sieve - JB
LabID 22-598

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|------------|
| ● | BH 21-01 | 3 | 8.0 - 13.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 04-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 15726.8(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 1106.60 | 7.04 | 53.00 | 93.0 |
| 37.5mm | 1883.40 | 4.94 | 37.50 | 88.0 |
| 26.5mm | 2580.70 | 4.43 | 26.50 | 83.6 |
| 19.0mm | 3324.00 | 4.73 | 19.00 | 78.9 |
| 16mm | 3803.60 | 3.05 | 16.00 | 75.8 |
| 13.2mm | 4236.50 | 2.75 | 13.20 | 73.1 |
| 9.5mm | 5151.00 | 5.81 | 9.50 | 67.3 |
| 4.75mm | 6524.80 | 8.74 | 4.75 | 58.5 |
| PAN | 9161.70 | 58.51 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 39.20 | 8.22 | 2.36 | 50.3 |
| 1.18mm | 81.20 | 8.80 | 1.18 | 41.5 |
| 600µm | 114.30 | 6.94 | 0.60 | 34.6 |
| 300µm | 140.80 | 5.56 | 0.30 | 29.0 |
| 150µm | 162.70 | 4.59 | 0.15 | 24.4 |
| 75µm | 186.00 | 4.88 | 0.08 | 19.5 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-01
Sample Number 4
Checked By _____

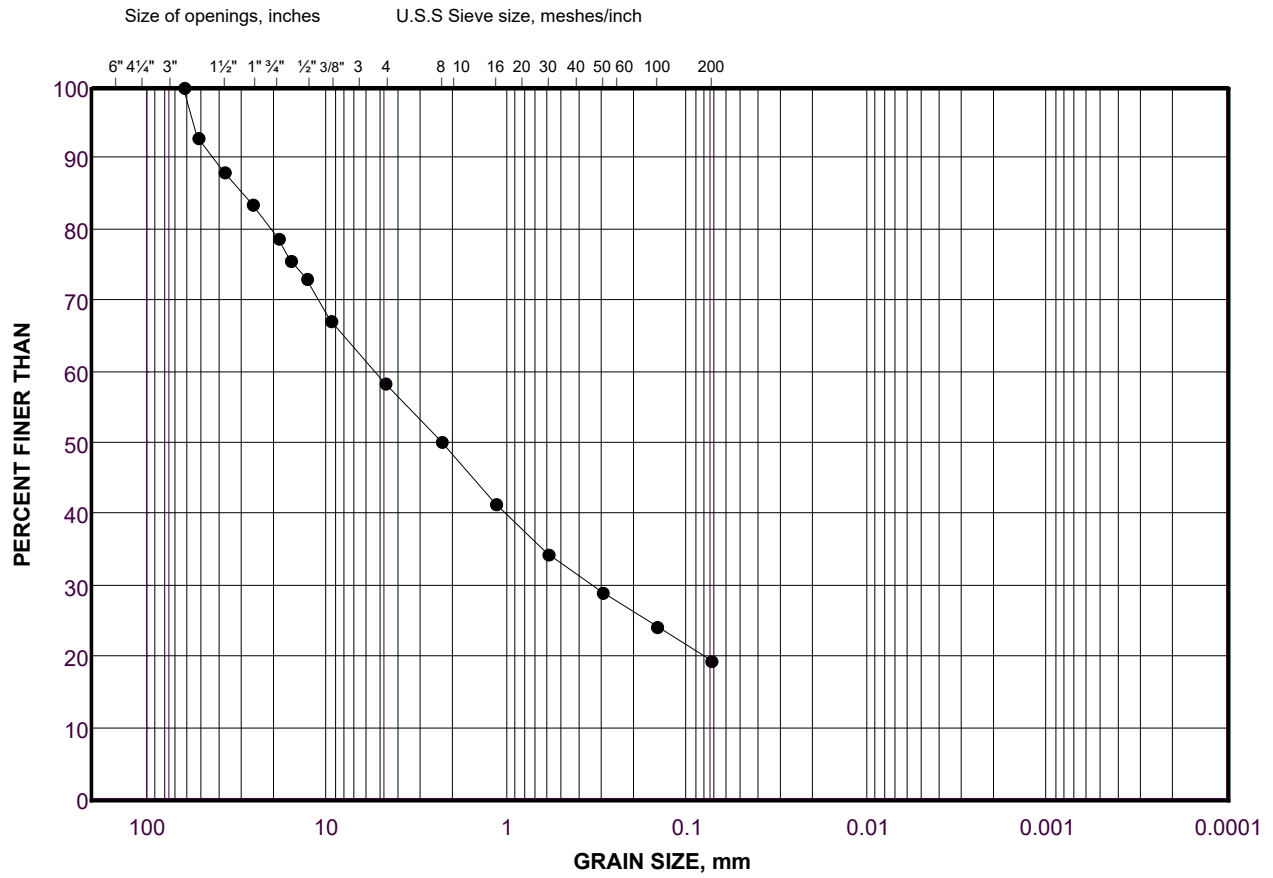
Depth 18
Units Imperial
Testing Date 3/07/22 3:26:32 PM
Tested By Sieve - TP
LabID 22-419

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | 21-01 | 4 | 13.0 - 18.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 04-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 8659.5(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 604.60 | 6.98 | 75.00 | 93.0 |
| 63mm | 1094.40 | 5.66 | 63.00 | 87.4 |
| 53mm | 1332.40 | 2.75 | 53.00 | 84.6 |
| 37.5mm | 2042.70 | 8.20 | 37.50 | 76.4 |
| 26.5mm | 2796.90 | 8.71 | 26.50 | 67.7 |
| 19.0mm | 3324.50 | 6.09 | 19.00 | 61.6 |
| 16mm | 3590.00 | 3.07 | 16.00 | 58.5 |
| 13.2mm | 3831.90 | 2.79 | 13.20 | 55.8 |
| 9.5mm | 4272.10 | 5.08 | 9.50 | 50.7 |
| 4.75mm | 5032.30 | 8.78 | 4.75 | 41.9 |
| PAN | 3618.50 | 41.89 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 45.20 | 7.12 | 2.36 | 34.8 |
| 1.18mm | 90.50 | 7.14 | 1.18 | 27.6 |
| 600µm | 126.60 | 5.69 | 0.60 | 21.9 |
| 300µm | 150.10 | 3.70 | 0.30 | 18.2 |
| 150µm | 169.30 | 3.02 | 0.15 | 15.2 |
| 75µm | 189.80 | 3.23 | 0.08 | 12.0 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-01
Sample Number 5
Checked By _____

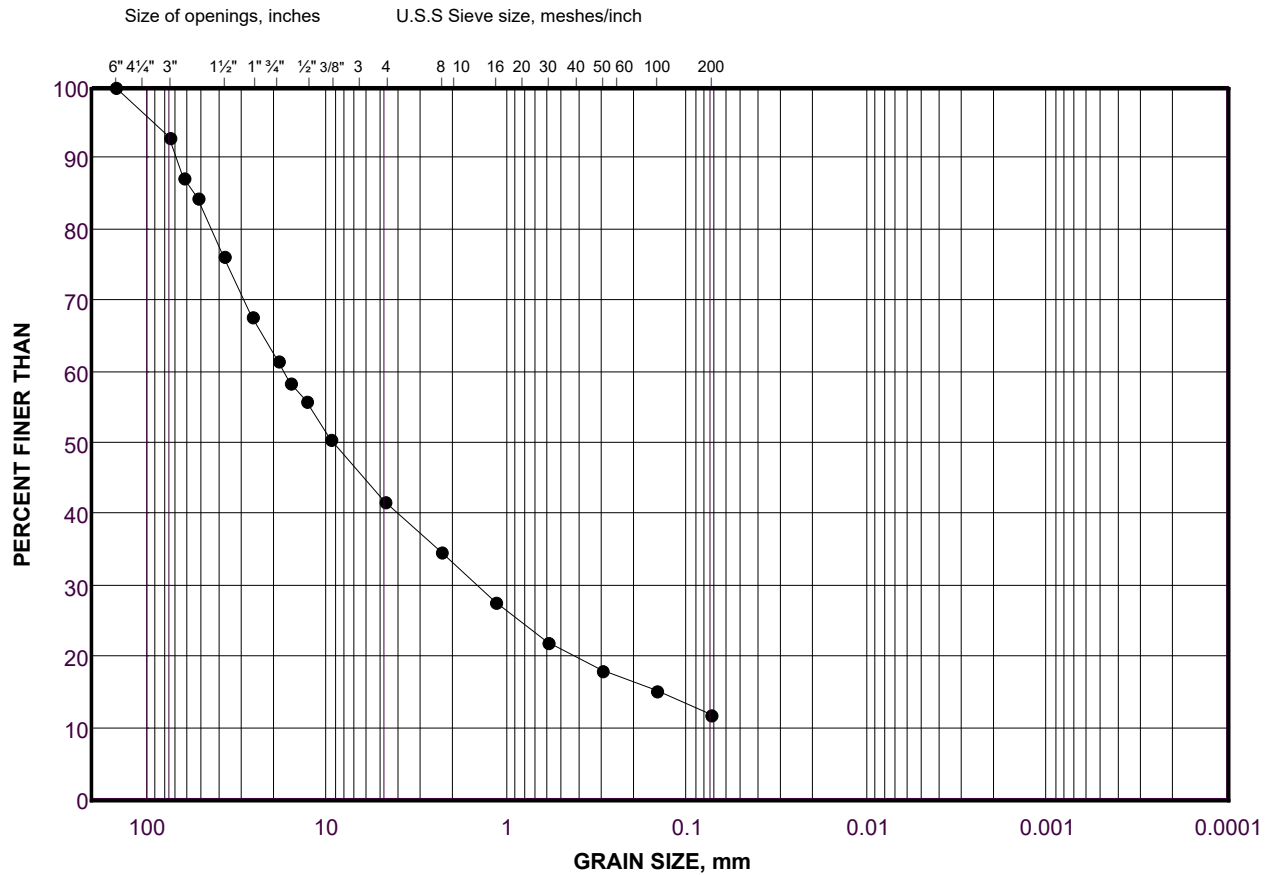
Depth 23
Units Imperial
Testing Date 3/24/22 10:58:40 AM
Tested By Sieve - TP
LabID 22-609

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | BH 21-01 | 5 | 18.0 - 23.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 04-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 20326(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1152.00 | 5.67 | 75.00 | 94.3 |
| 63mm | 2152.00 | 4.92 | 63.00 | 89.4 |
| 53mm | 3270.00 | 5.50 | 53.00 | 83.9 |
| 37.5mm | 5114.00 | 9.07 | 37.50 | 74.8 |
| 26.5mm | 6210.00 | 5.39 | 26.50 | 69.5 |
| 19.0mm | 7374.00 | 5.73 | 19.00 | 63.7 |
| 16mm | 8078.00 | 3.46 | 16.00 | 60.3 |
| 13.2mm | 8754.00 | 3.33 | 13.20 | 56.9 |
| 9.5mm | 10046.00 | 6.36 | 9.50 | 50.6 |
| 4.75mm | 12332.00 | 11.25 | 4.75 | 39.3 |
| PAN | 7994.00 | 39.32 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 58.65 | 6.97 | 2.36 | 32.4 |
| 1.18mm | 112.10 | 6.35 | 1.18 | 26.0 |
| 600µm | 156.28 | 5.25 | 0.60 | 20.8 |
| 300µm | 193.87 | 4.46 | 0.30 | 16.3 |
| 150µm | 220.99 | 3.22 | 0.15 | 13.1 |
| 75µm | 244.31 | 2.77 | 0.08 | 10.3 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-01
Sample Number 7
Checked By _____

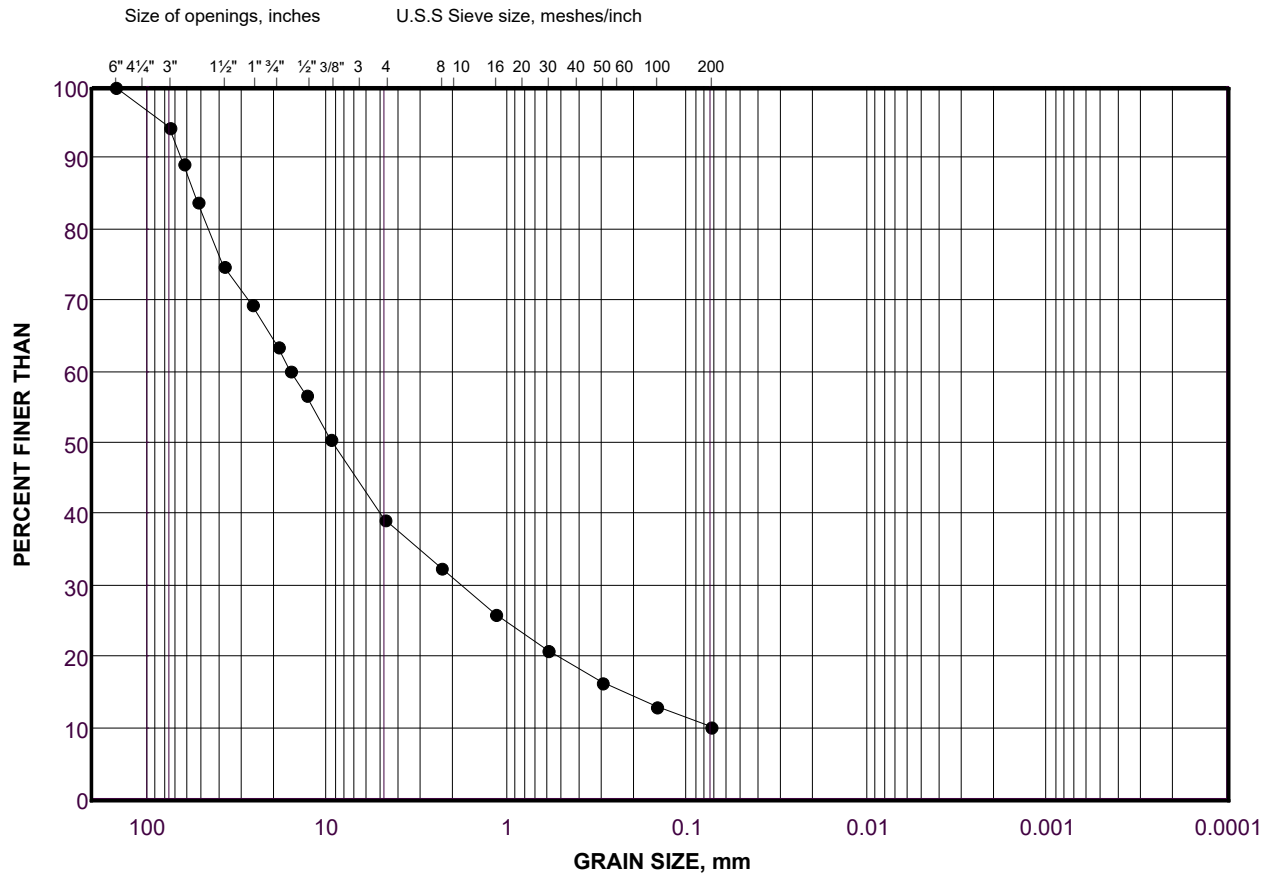
Depth 33
Units Imperial
Testing Date 3/24/22 11:05:31 AM
Tested By Sieve -
LabID 22-599

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |
| SIZE | | | | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-01 | 7 | 28.0 - 33.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 04-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 22587.3(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 810.80 | 3.59 | 75.00 | 96.4 |
| 63mm | 1124.20 | 1.39 | 63.00 | 95.0 |
| 53mm | 1124.20 | 0.00 | 53.00 | 95.0 |
| 37.5mm | 1890.40 | 3.39 | 37.50 | 91.6 |
| 26.5mm | 2553.50 | 2.94 | 26.50 | 88.7 |
| 19.0mm | 3393.00 | 3.72 | 19.00 | 85.0 |
| 16mm | 3898.30 | 2.24 | 16.00 | 82.7 |
| 13.2mm | 4381.20 | 2.14 | 13.20 | 80.6 |
| 9.5mm | 5543.00 | 5.14 | 9.50 | 75.5 |
| 4.75mm | 7891.80 | 10.40 | 4.75 | 65.1 |
| PAN | 14656.50 | 65.05 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 47.00 | 9.80 | 2.36 | 55.3 |
| 1.18mm | 88.60 | 8.68 | 1.18 | 46.6 |
| 600µm | 124.50 | 7.49 | 0.60 | 39.1 |
| 300µm | 150.80 | 5.49 | 0.30 | 33.6 |
| 150µm | 171.90 | 4.40 | 0.15 | 29.2 |
| 75µm | 196.90 | 5.21 | 0.08 | 24.0 |

Project Number 21476582
Project Task 1000
Test Pit Number BH 21-01
Sample Number 8
Checked By _____

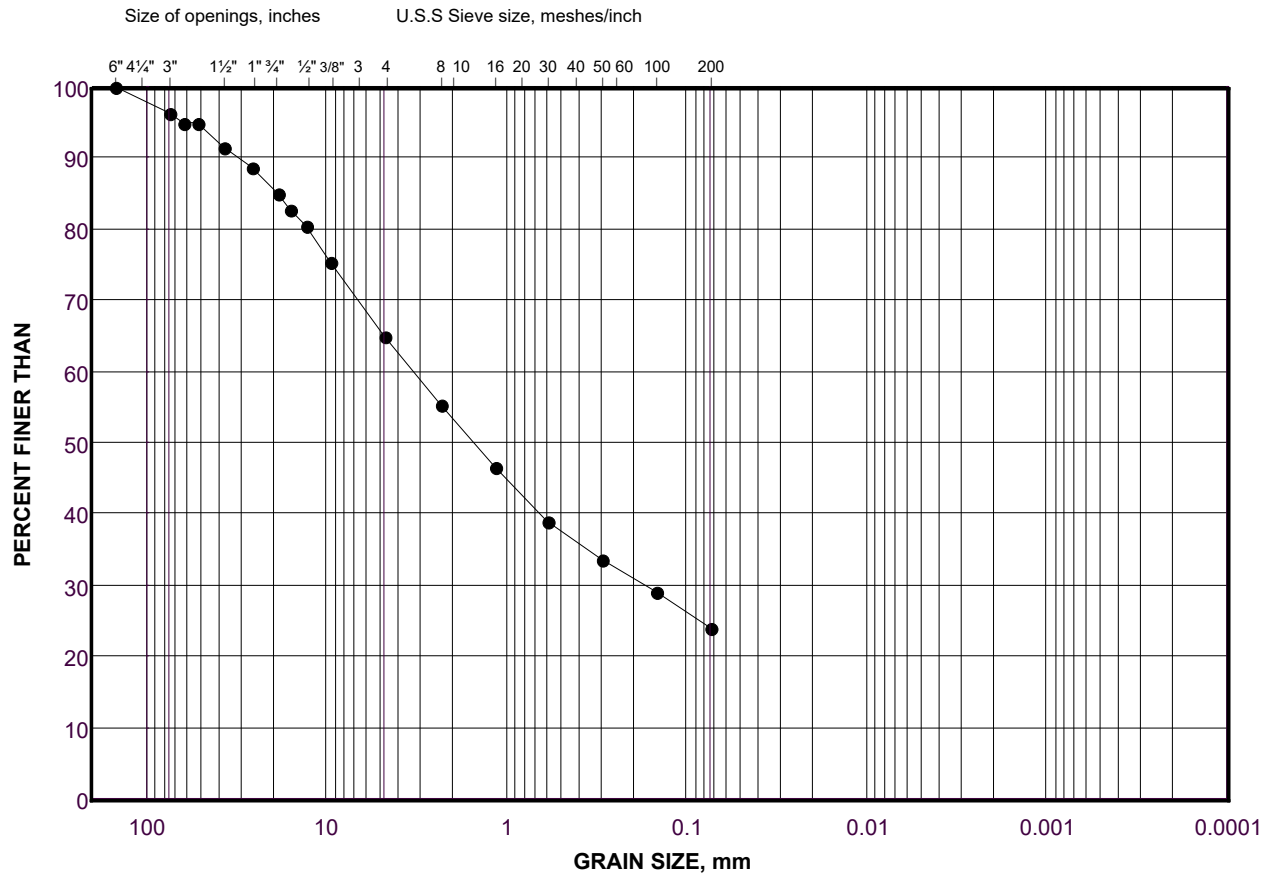
Depth 33
Units Imperial
Testing Date 3/24/22 11:13:18 AM
Tested By Sieve - TP
LabID 22-192

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | TEST PIT | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-01 | 8 | 38.0 - 33.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 04-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 19326.6(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 562.20 | 2.91 | 53.00 | 97.1 |
| 37.5mm | 910.90 | 1.80 | 37.50 | 95.3 |
| 26.5mm | 1965.90 | 5.46 | 26.50 | 89.8 |
| 19.0mm | 3315.20 | 6.98 | 19.00 | 82.9 |
| 16mm | 4015.10 | 3.62 | 16.00 | 79.2 |
| 13.2mm | 4638.20 | 3.22 | 13.20 | 76.0 |
| 9.5mm | 5942.50 | 6.75 | 9.50 | 69.3 |
| 4.75mm | 8117.10 | 11.25 | 4.75 | 58.0 |
| PAN | 11180.40 | 58.01 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 40.10 | 8.99 | 2.36 | 49.0 |
| 1.18mm | 79.60 | 8.85 | 1.18 | 40.2 |
| 600µm | 115.10 | 7.96 | 0.60 | 32.2 |
| 300µm | 141.70 | 5.96 | 0.30 | 26.3 |
| 150µm | 160.90 | 4.30 | 0.15 | 22.0 |
| 75µm | 181.00 | 4.51 | 0.08 | 17.4 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-01
Sample Number 9
Checked By _____

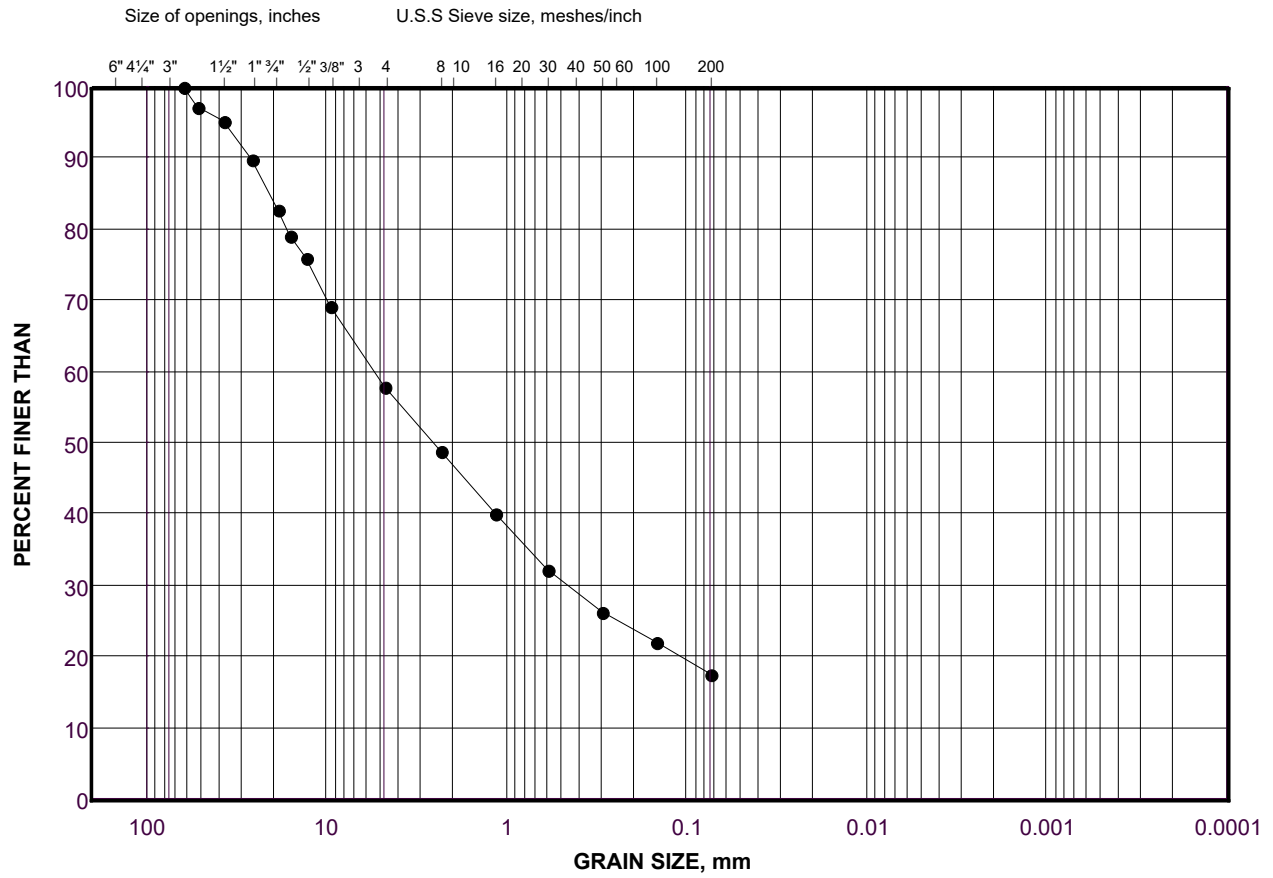
Depth
Units Imperial
Testing Date 3/07/22 3:31:26 PM
Tested By Sieve - AM
LabID 22-420

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-01 | 9 | 38.0 - 43.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 17134.9(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1377.50 | 8.04 | 75.00 | 92.0 |
| 63mm | 1377.50 | 0.00 | 63.00 | 92.0 |
| 53mm | 2067.80 | 4.03 | 53.00 | 87.9 |
| 37.5mm | 2740.80 | 3.93 | 37.50 | 84.0 |
| 26.5mm | 3802.70 | 6.20 | 26.50 | 77.8 |
| 19.0mm | 4863.40 | 6.19 | 19.00 | 71.6 |
| 16mm | 5365.30 | 2.93 | 16.00 | 68.7 |
| 13.2mm | 5891.80 | 3.07 | 13.20 | 65.6 |
| 9.5mm | 7063.90 | 6.84 | 9.50 | 58.8 |
| 4.75mm | 8651.80 | 9.27 | 4.75 | 49.5 |
| PAN | 8470.10 | 49.50 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 37.00 | 6.97 | 2.36 | 42.5 |
| 1.18mm | 67.10 | 5.67 | 1.18 | 36.9 |
| 600µm | 106.90 | 7.49 | 0.60 | 29.4 |
| 300µm | 159.70 | 9.94 | 0.30 | 19.4 |
| 150µm | 196.10 | 6.85 | 0.15 | 12.6 |
| 75µm | 216.90 | 3.92 | 0.08 | 8.7 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-01
Sample Number 11
Checked By _____

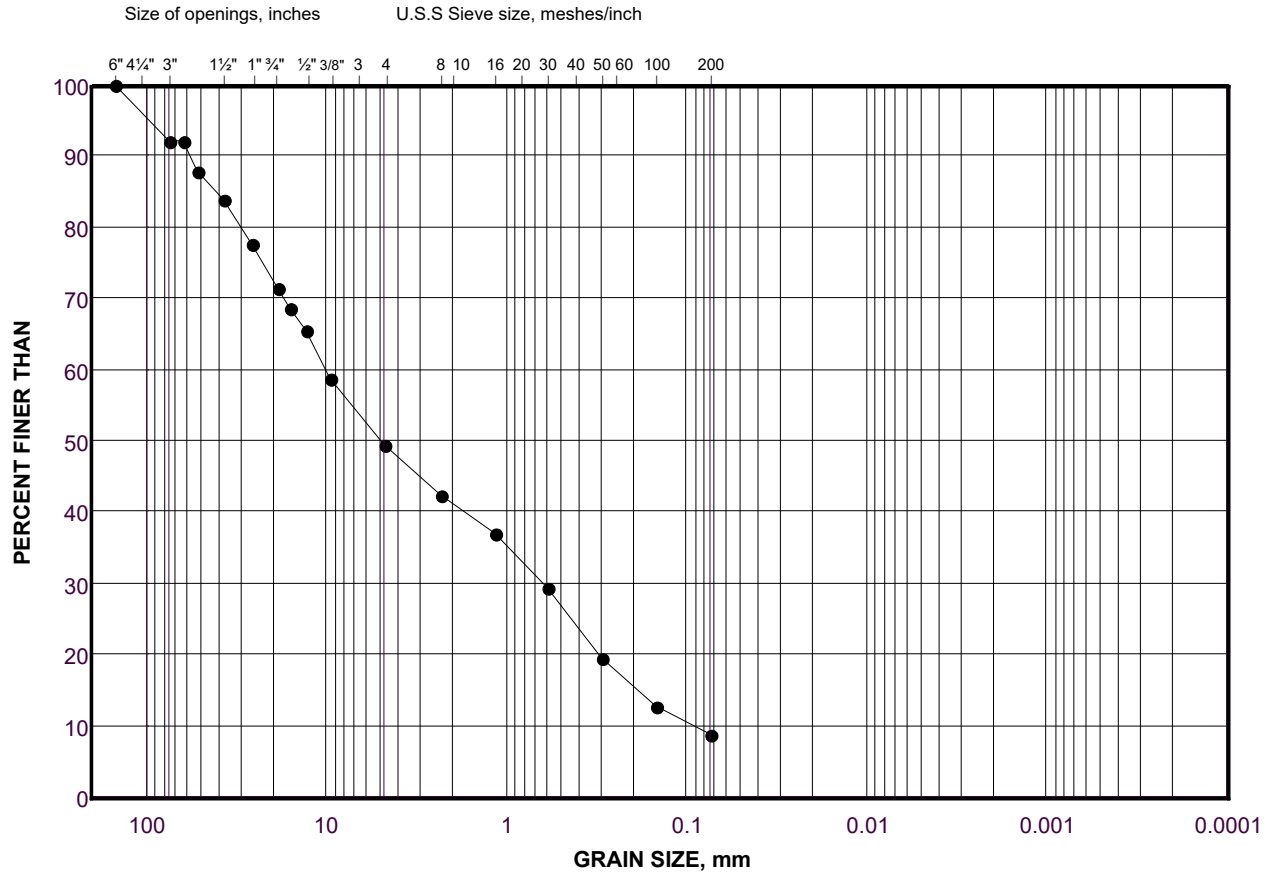
Depth 53
Units Imperial
Testing Date 3/24/22 11:29:27 AM
Tested By Sieve - JT
LabID 22-220

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-01 | 11 | 48.0 - 53.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 04-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 20385.8(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1644.90 | 8.07 | 75.00 | 91.9 |
| 63mm | 1644.90 | 0.00 | 63.00 | 91.9 |
| 53mm | 2221.70 | 2.83 | 53.00 | 89.1 |
| 37.5mm | 3042.50 | 4.03 | 37.50 | 85.1 |
| 26.5mm | 4729.70 | 8.28 | 26.50 | 76.8 |
| 19.0mm | 5808.30 | 5.29 | 19.00 | 71.5 |
| 16mm | 6338.40 | 2.60 | 16.00 | 68.9 |
| 13.2mm | 6938.20 | 2.94 | 13.20 | 66.0 |
| 9.5mm | 8016.30 | 5.29 | 9.50 | 60.7 |
| 4.75mm | 9667.20 | 8.10 | 4.75 | 52.6 |
| PAN | 10651.80 | 52.57 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 30.90 | 6.06 | 2.36 | 46.5 |
| 1.18mm | 66.80 | 7.04 | 1.18 | 39.5 |
| 600µm | 102.00 | 6.90 | 0.60 | 32.6 |
| 300µm | 133.40 | 6.16 | 0.30 | 26.4 |
| 150µm | 162.30 | 5.67 | 0.15 | 20.7 |
| 75µm | 190.40 | 5.51 | 0.08 | 15.2 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-01
Sample Number 13
Checked By _____

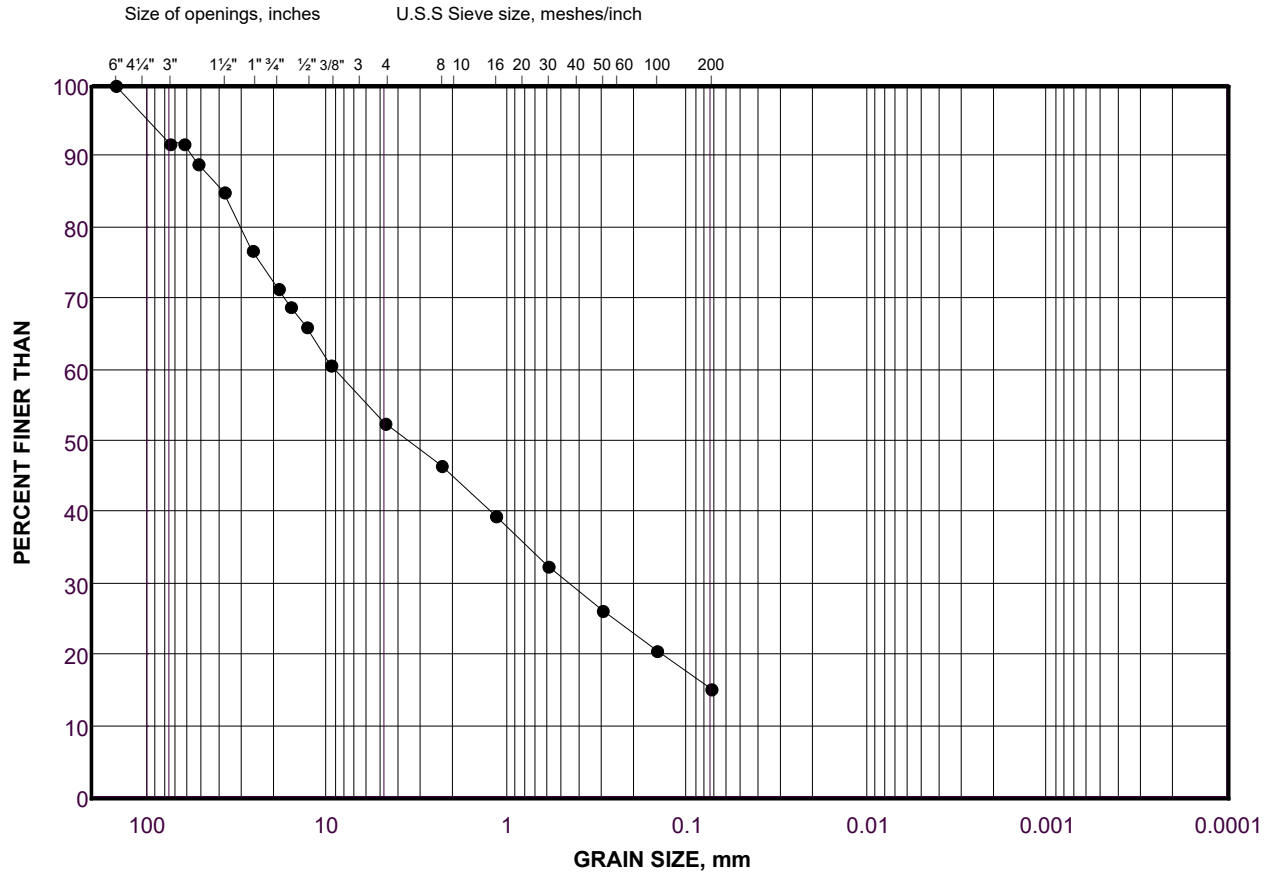
Depth 58
Units Imperial
Testing Date 3/24/22 11:37:55 AM
Tested By Sieve - TP
LabID 22-610

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-01 | 13 | 58.0 - 63.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 04-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 18660.3(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 861.90 | 4.62 | 75.00 | 95.4 |
| 63mm | 2087.00 | 6.57 | 63.00 | 88.8 |
| 53mm | 2645.30 | 2.99 | 53.00 | 85.8 |
| 37.5mm | 5031.20 | 12.79 | 37.50 | 73.0 |
| 26.5mm | 5031.20 | 0.00 | 26.50 | 73.0 |
| 19.0mm | 7444.60 | 12.93 | 19.00 | 60.1 |
| 16mm | 8298.60 | 4.58 | 16.00 | 55.5 |
| 13.2mm | 8831.40 | 2.86 | 13.20 | 52.7 |
| 9.5mm | 9983.70 | 6.18 | 9.50 | 46.5 |
| 4.75mm | 11647.50 | 8.92 | 4.75 | 37.6 |
| PAN | 7003.20 | 37.56 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 42.30 | 5.46 | 2.36 | 32.1 |
| 1.18mm | 89.30 | 6.07 | 1.18 | 26.0 |
| 600µm | 140.00 | 6.55 | 0.60 | 19.5 |
| 300µm | 178.40 | 4.96 | 0.30 | 14.5 |
| 150µm | 208.00 | 3.82 | 0.15 | 10.7 |
| 75µm | 231.40 | 3.02 | 0.08 | 7.7 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-01
Sample Number 14A
Checked By _____

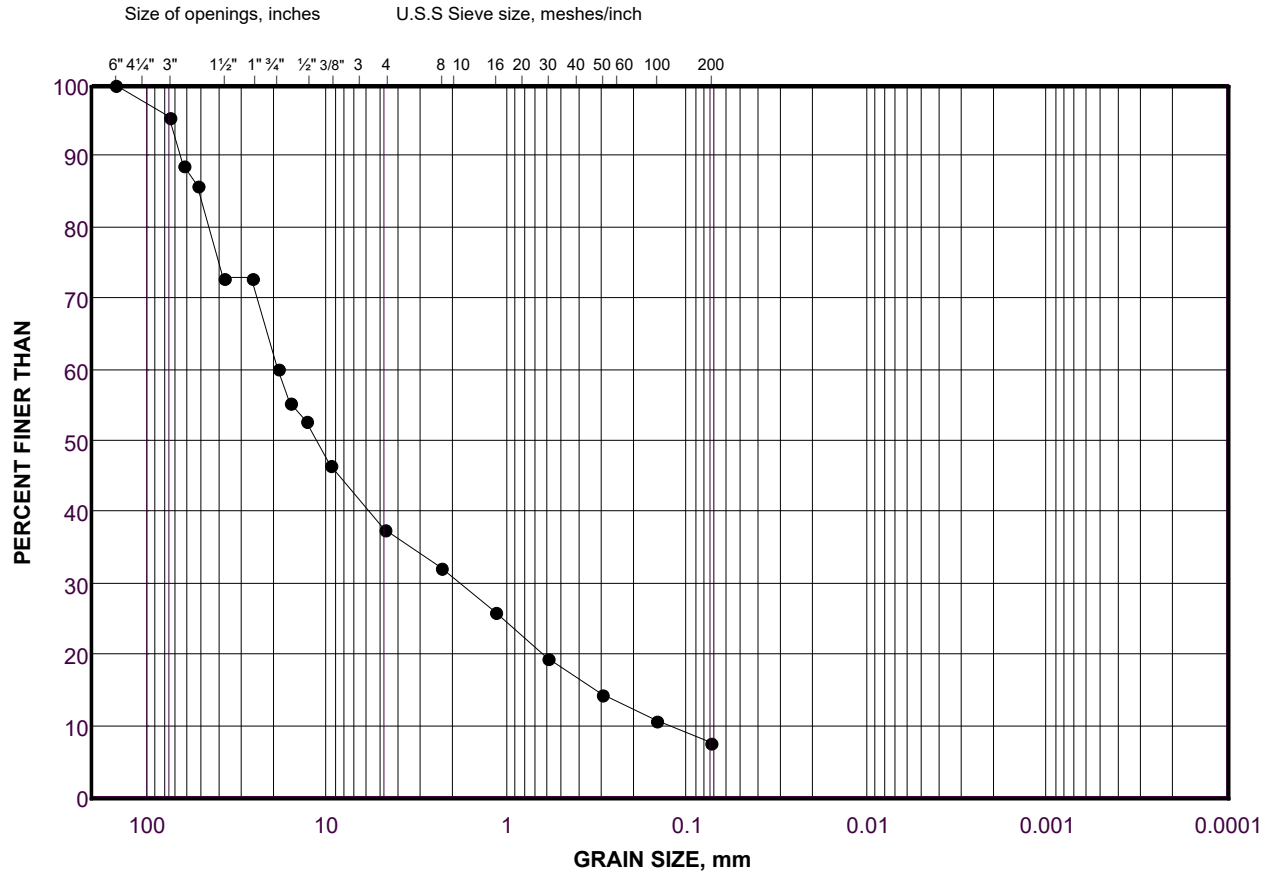
Depth 69
Units Imperial
Testing Date 3/24/22 11:44:58 AM
Tested By Sieve - AM
LabID 22-611

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-01 | 14A | 63.0 - 68.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 04-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 7932.6(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 358.10 | 4.51 | 37.50 | 95.5 |
| 26.5mm | 770.50 | 5.20 | 26.50 | 90.3 |
| 19.0mm | 1102.40 | 4.18 | 19.00 | 86.1 |
| 16mm | 1235.10 | 1.67 | 16.00 | 84.4 |
| 13.2mm | 1390.40 | 1.96 | 13.20 | 82.5 |
| 9.5mm | 1644.20 | 3.20 | 9.50 | 79.3 |
| 4.75mm | 2044.60 | 5.05 | 4.75 | 74.2 |
| PAN | 5874.70 | 74.23 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 13.30 | 3.62 | 2.36 | 70.6 |
| 1.18mm | 27.70 | 3.92 | 1.18 | 66.7 |
| 600µm | 43.90 | 4.41 | 0.60 | 62.3 |
| 300µm | 62.50 | 5.06 | 0.30 | 57.2 |
| 150µm | 88.30 | 7.02 | 0.15 | 50.2 |
| 75µm | 121.80 | 9.12 | 0.08 | 41.1 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-01
Sample Number 14B
Checked By _____

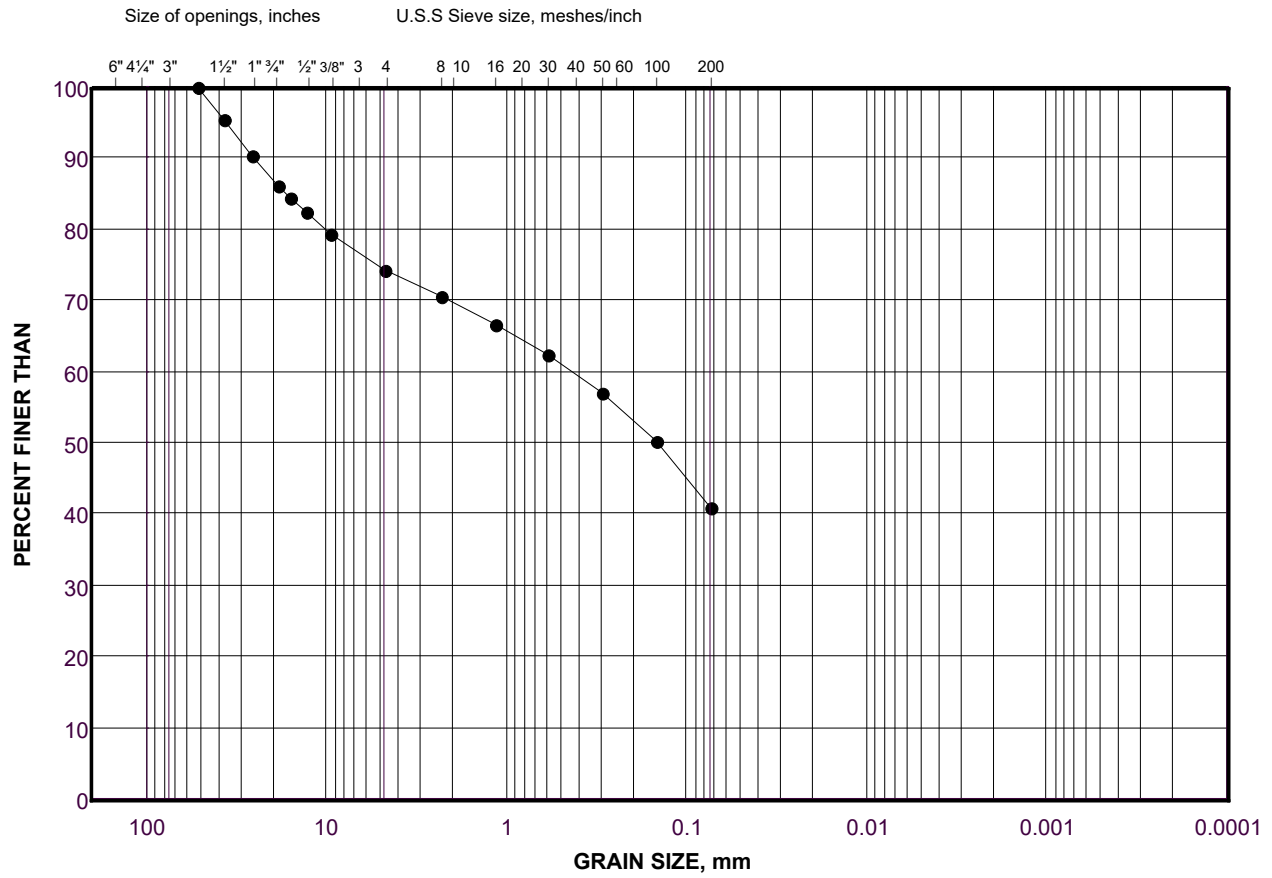
Depth 68
Units Imperial
Testing Date 3/24/22 11:57:55 AM
Tested By Sieve - LB
LabID 22-613

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-01 | 14B | 66.0 - 68.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 04-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 10139.9(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 237.20 | 2.34 | 53.00 | 97.7 |
| 37.5mm | 361.10 | 1.22 | 37.50 | 96.4 |
| 26.5mm | 545.30 | 1.82 | 26.50 | 94.6 |
| 19.0mm | 868.30 | 3.19 | 19.00 | 91.4 |
| 16mm | 1351.50 | 4.77 | 16.00 | 86.7 |
| 13.2mm | 1726.60 | 3.70 | 13.20 | 83.0 |
| 9.5mm | 2344.50 | 6.09 | 9.50 | 76.9 |
| 4.75mm | 3484.90 | 11.25 | 4.75 | 65.6 |
| PAN | 6655.00 | 65.62 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 31.70 | 7.41 | 2.36 | 58.2 |
| 1.18mm | 64.80 | 7.74 | 1.18 | 50.5 |
| 600µm | 97.70 | 7.69 | 0.60 | 42.8 |
| 300µm | 135.30 | 8.79 | 0.30 | 34.0 |
| 150µm | 173.10 | 8.84 | 0.15 | 25.2 |
| 75µm | 204.80 | 7.41 | 0.08 | 17.7 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-01
Sample Number 16A
Checked By _____

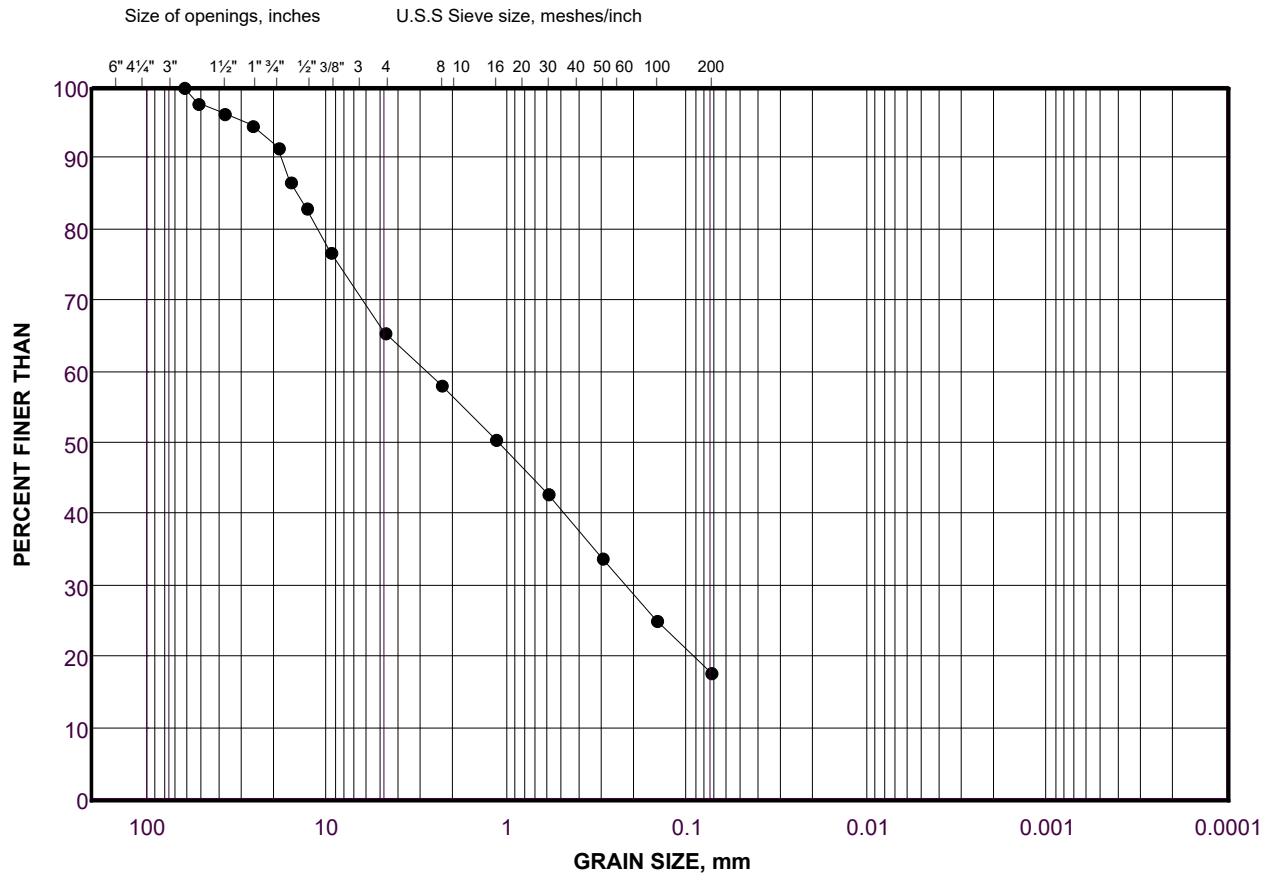
Depth 76
Units Imperial
Testing Date 3/24/22 12:05:37 PM
Tested By Sieve - TP
LabID 22-557

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|--------|-------------|------|-----------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | |
| SIZE | | | | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | BH 21-01 | 16A | 73.0 - 76.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 04-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 12803.6(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 324.50 | 2.53 | 37.50 | 97.5 |
| 26.5mm | 635.10 | 2.43 | 26.50 | 95.0 |
| 19.0mm | 1025.80 | 3.05 | 19.00 | 92.0 |
| 16mm | 1248.50 | 1.74 | 16.00 | 90.3 |
| 13.2mm | 1379.40 | 1.02 | 13.20 | 89.2 |
| 9.5mm | 1797.90 | 3.27 | 9.50 | 86.0 |
| 4.75mm | 2539.20 | 5.79 | 4.75 | 80.2 |
| PAN | 10238.40 | 80.17 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 16.90 | 4.92 | 2.36 | 75.3 |
| 1.18mm | 36.00 | 5.56 | 1.18 | 69.7 |
| 600µm | 55.50 | 5.67 | 0.60 | 64.0 |
| 300µm | 76.50 | 6.11 | 0.30 | 57.9 |
| 150µm | 101.80 | 7.36 | 0.15 | 50.6 |
| 75µm | 136.20 | 10.01 | 0.08 | 40.5 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-02
Sample Number 2
Checked By _____

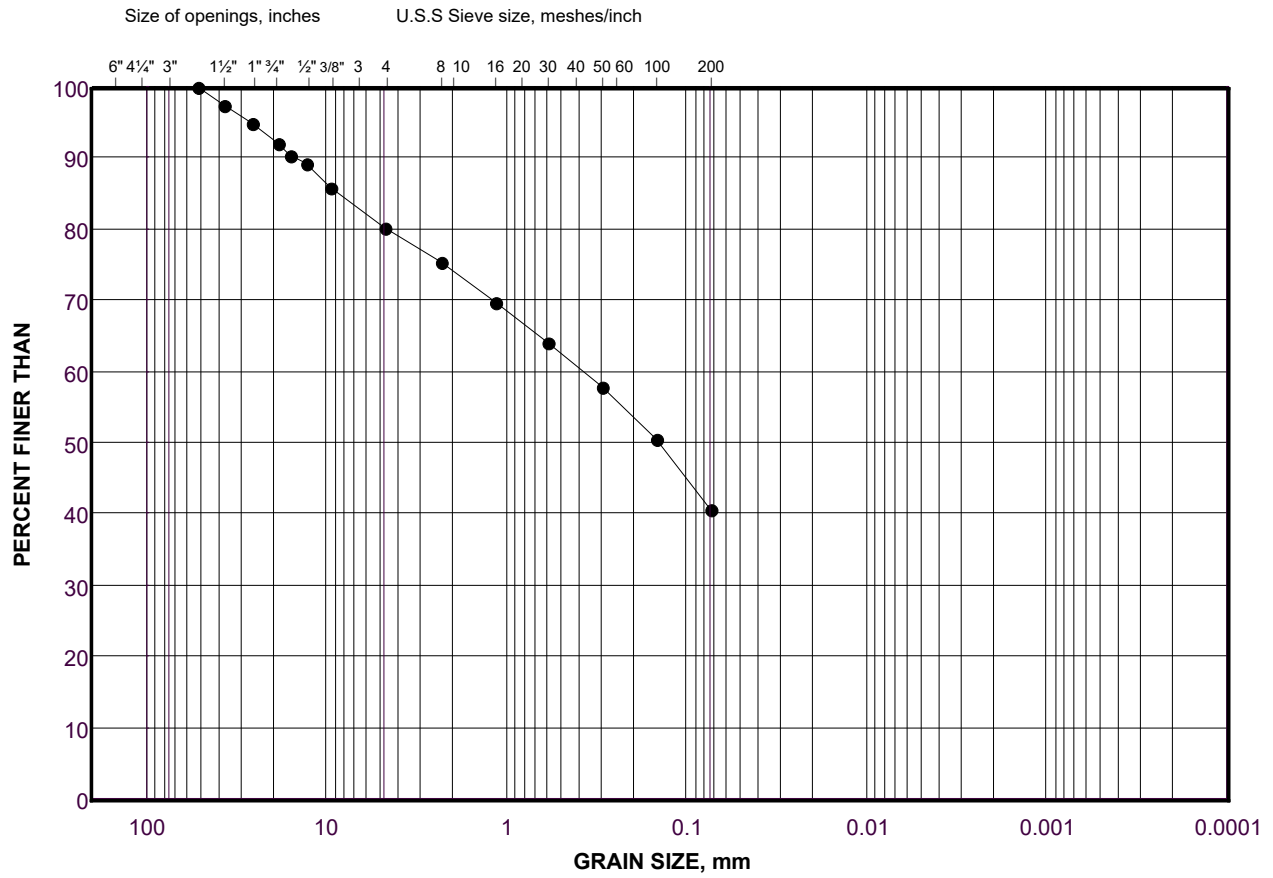
Depth 8
Units Imperial
Testing Date 3/25/22 2:27:58 PM
Tested By Sieve -
LabID 22-223

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |
| SIZE | | | | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-----------|
| ● | BH 21-02 | 2 | 3.0 - 8.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 14971(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 952.60 | 6.36 | 75.00 | 93.6 |
| 63mm | 1523.20 | 3.81 | 63.00 | 89.8 |
| 53mm | 1523.20 | 0.00 | 53.00 | 89.8 |
| 37.5mm | 2561.40 | 6.93 | 37.50 | 82.9 |
| 26.5mm | 3501.50 | 6.28 | 26.50 | 76.6 |
| 19.0mm | 4147.00 | 4.31 | 19.00 | 72.3 |
| 16mm | 4301.60 | 1.03 | 16.00 | 71.3 |
| 13.2mm | 4656.10 | 2.37 | 13.20 | 68.9 |
| 9.5mm | 5248.00 | 3.95 | 9.50 | 65.0 |
| 4.75mm | 6332.30 | 7.24 | 4.75 | 57.7 |
| PAN | 8617.00 | 57.72 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 26.40 | 5.56 | 2.36 | 52.2 |
| 1.18mm | 52.50 | 5.50 | 1.18 | 46.7 |
| 600µm | 78.60 | 5.50 | 0.60 | 41.2 |
| 300µm | 106.00 | 5.77 | 0.30 | 35.4 |
| 150µm | 133.00 | 5.69 | 0.15 | 29.7 |
| 75µm | 159.30 | 5.54 | 0.08 | 24.2 |

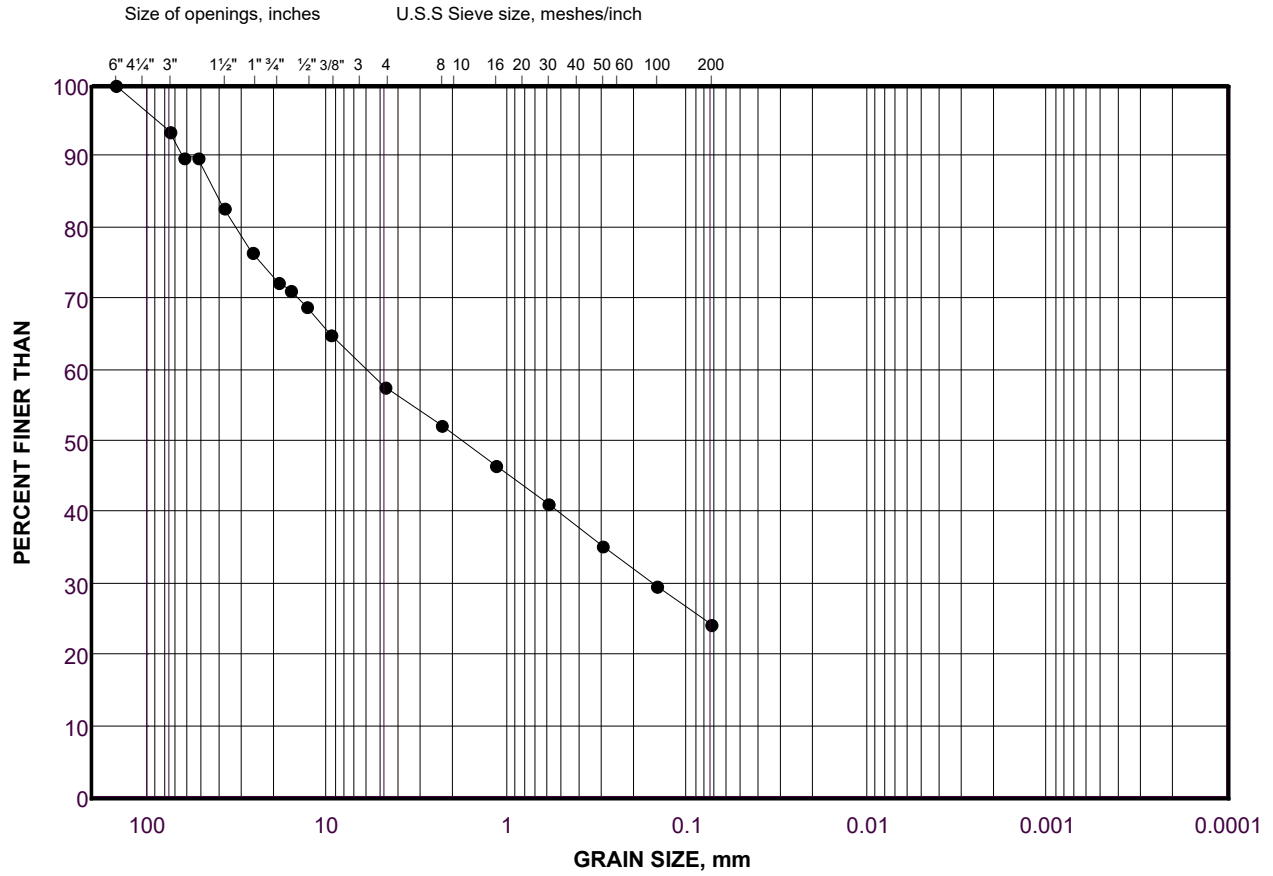
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 13 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | BH 21-02 | Testing Date | 3/25/22 2:36:49 PM |
| Sample Number | 3 | Tested By | Sieve - TP |
| Checked By | _____ | LabID | 22-616 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |
| SIZE | | | | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|------------|
| • | BH 21-02 | 3 | 8.0 - 13.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 16264.4(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 1077.40 | 6.62 | 63.00 | 93.4 |
| 53mm | 1424.40 | 2.13 | 53.00 | 91.3 |
| 37.5mm | 2062.10 | 3.92 | 37.50 | 87.3 |
| 26.5mm | 2496.10 | 2.67 | 26.50 | 84.7 |
| 19.0mm | 2933.80 | 2.69 | 19.00 | 82.0 |
| 16mm | 3274.20 | 2.09 | 16.00 | 79.9 |
| 13.2mm | 3553.90 | 1.72 | 13.20 | 78.2 |
| 9.5mm | 4226.20 | 4.13 | 9.50 | 74.0 |
| 4.75mm | 5287.20 | 6.52 | 4.75 | 67.5 |
| PAN | 10944.60 | 67.51 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 22.40 | 5.62 | 2.36 | 61.9 |
| 1.18mm | 48.00 | 6.42 | 1.18 | 55.5 |
| 600µm | 74.60 | 6.67 | 0.60 | 48.8 |
| 300µm | 103.30 | 7.19 | 0.30 | 41.6 |
| 150µm | 132.10 | 7.22 | 0.15 | 34.4 |
| 75µm | 159.20 | 6.79 | 0.08 | 27.6 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-02
Sample Number 4
Checked By _____

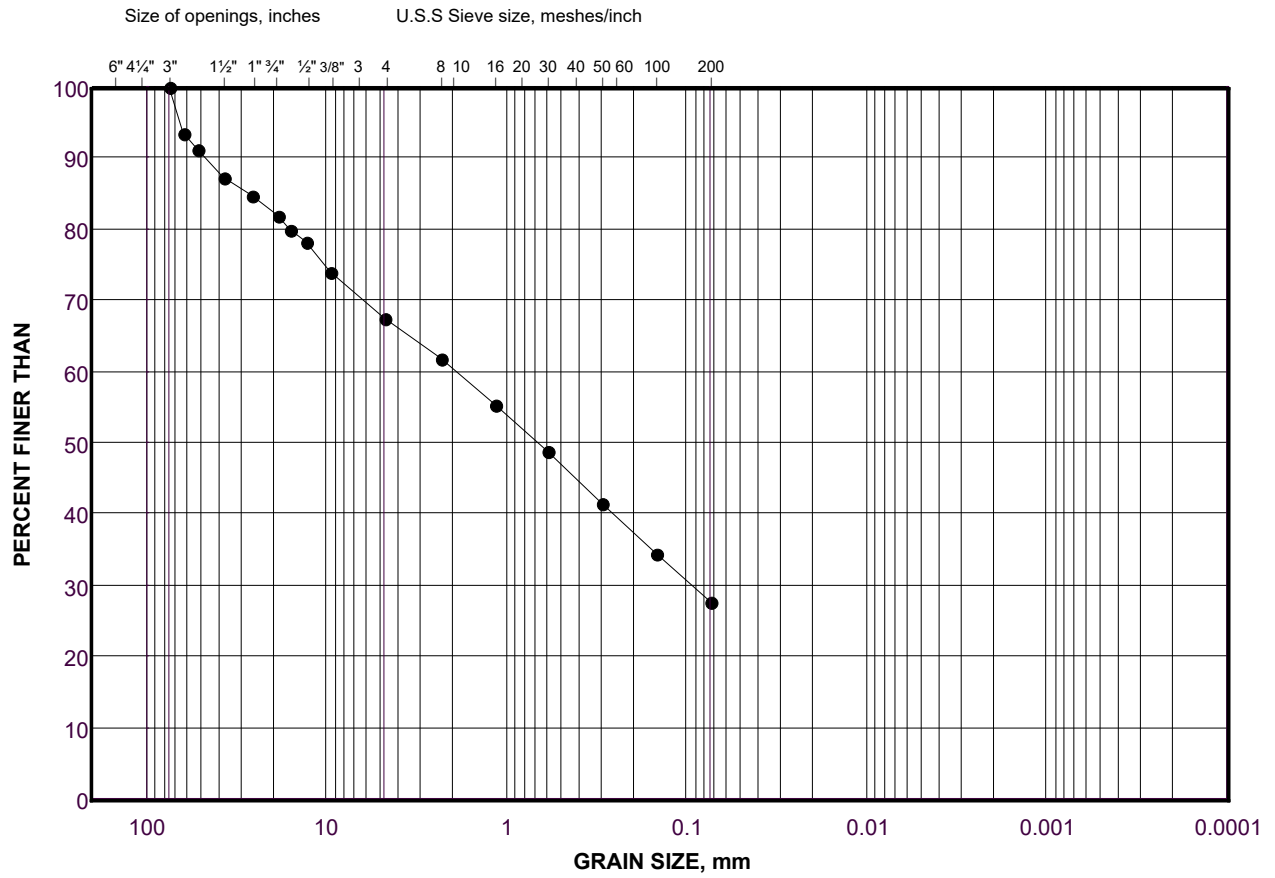
Depth 18
Units Imperial
Testing Date 3/07/22 3:19:50 PM
Tested By Sieve - LB
LabID 22-421

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-02 | 4 | 13.0 - 18.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 18514.9(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 270.10 | 1.46 | 53.00 | 98.5 |
| 37.5mm | 1766.30 | 8.08 | 37.50 | 90.5 |
| 26.5mm | 2709.00 | 5.09 | 26.50 | 85.4 |
| 19.0mm | 3611.80 | 4.88 | 19.00 | 80.5 |
| 16mm | 3991.30 | 2.05 | 16.00 | 78.4 |
| 13.2mm | 4244.70 | 1.37 | 13.20 | 77.1 |
| 9.5mm | 5028.30 | 4.23 | 9.50 | 72.8 |
| 4.75mm | 6165.00 | 6.14 | 4.75 | 66.7 |
| PAN | 12349.90 | 66.70 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 22.70 | 5.79 | 2.36 | 60.9 |
| 1.18mm | 47.40 | 6.30 | 1.18 | 54.6 |
| 600µm | 73.10 | 6.55 | 0.60 | 48.1 |
| 300µm | 101.10 | 7.14 | 0.30 | 40.9 |
| 150µm | 128.40 | 6.96 | 0.15 | 34.0 |
| 75µm | 155.10 | 6.81 | 0.08 | 27.2 |

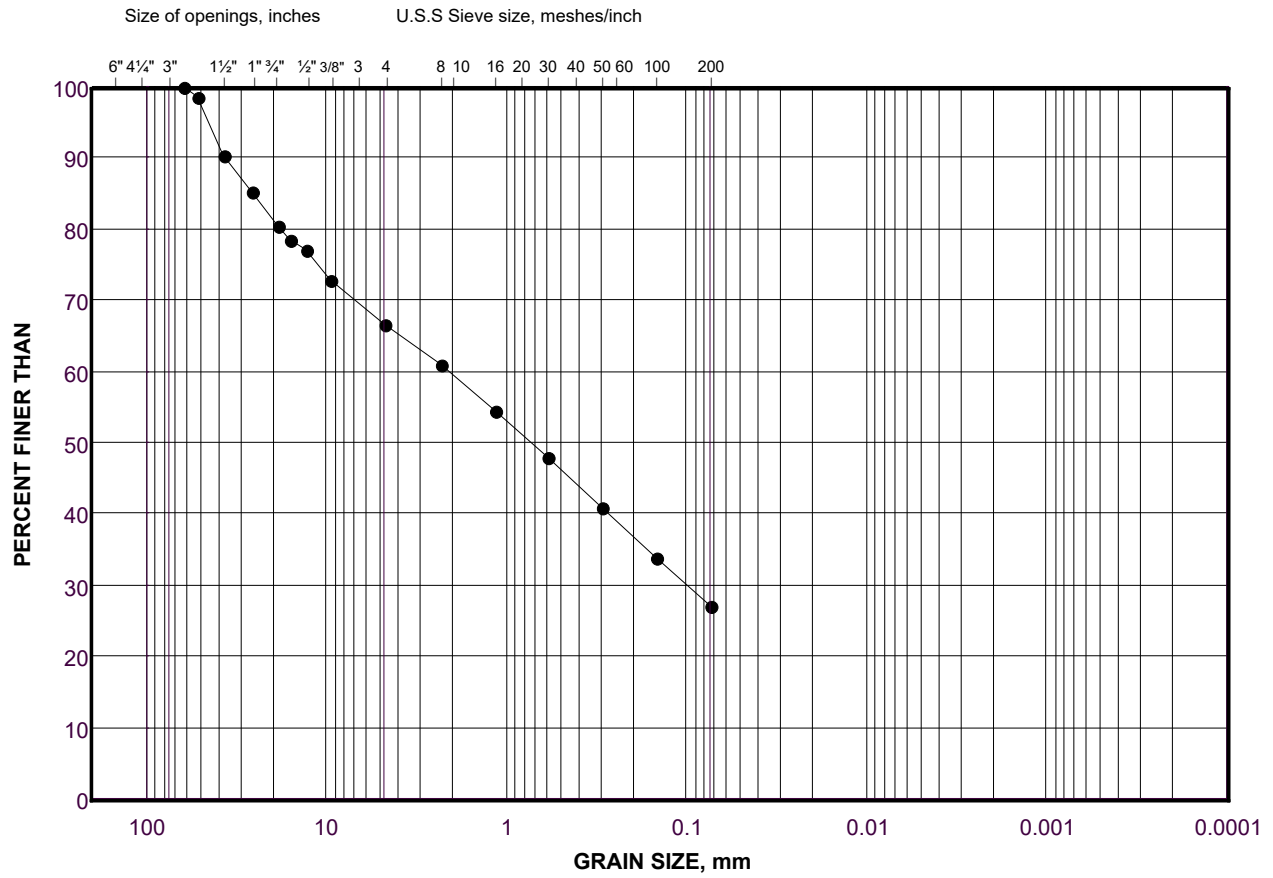
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 23 |
| Project Task | 1000 | Units | Metric |
| Borehole Number | BH 21-02 | Testing Date | 3/25/22 2:23:35 PM |
| Sample Number | 5 | Tested By | Sieve - |
| Checked By | _____ | LabID | 22-558 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(m) |
|--------|----------|--------|-------------|
| ● | BH 21-02 | 5 | 18.0 - 23.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 18148(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 240.00 | 1.32 | 53.00 | 98.7 |
| 37.5mm | 1548.00 | 7.21 | 37.50 | 91.5 |
| 26.5mm | 2414.00 | 4.77 | 26.50 | 86.7 |
| 19.0mm | 3140.00 | 4.00 | 19.00 | 82.7 |
| 16mm | 3444.00 | 1.68 | 16.00 | 81.0 |
| 13.2mm | 3776.00 | 1.83 | 13.20 | 79.2 |
| 9.5mm | 4504.00 | 4.01 | 9.50 | 75.2 |
| 4.75mm | 5624.00 | 6.17 | 4.75 | 69.0 |
| PAN | 12524.00 | 69.01 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 26.92 | 5.34 | 2.36 | 63.7 |
| 1.18mm | 56.26 | 5.81 | 1.18 | 57.9 |
| 600µm | 88.67 | 6.42 | 0.60 | 51.4 |
| 300µm | 125.25 | 7.25 | 0.30 | 44.2 |
| 150µm | 163.39 | 7.56 | 0.15 | 36.6 |
| 75µm | 200.91 | 7.44 | 0.08 | 29.2 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-02
Sample Number 8
Checked By _____

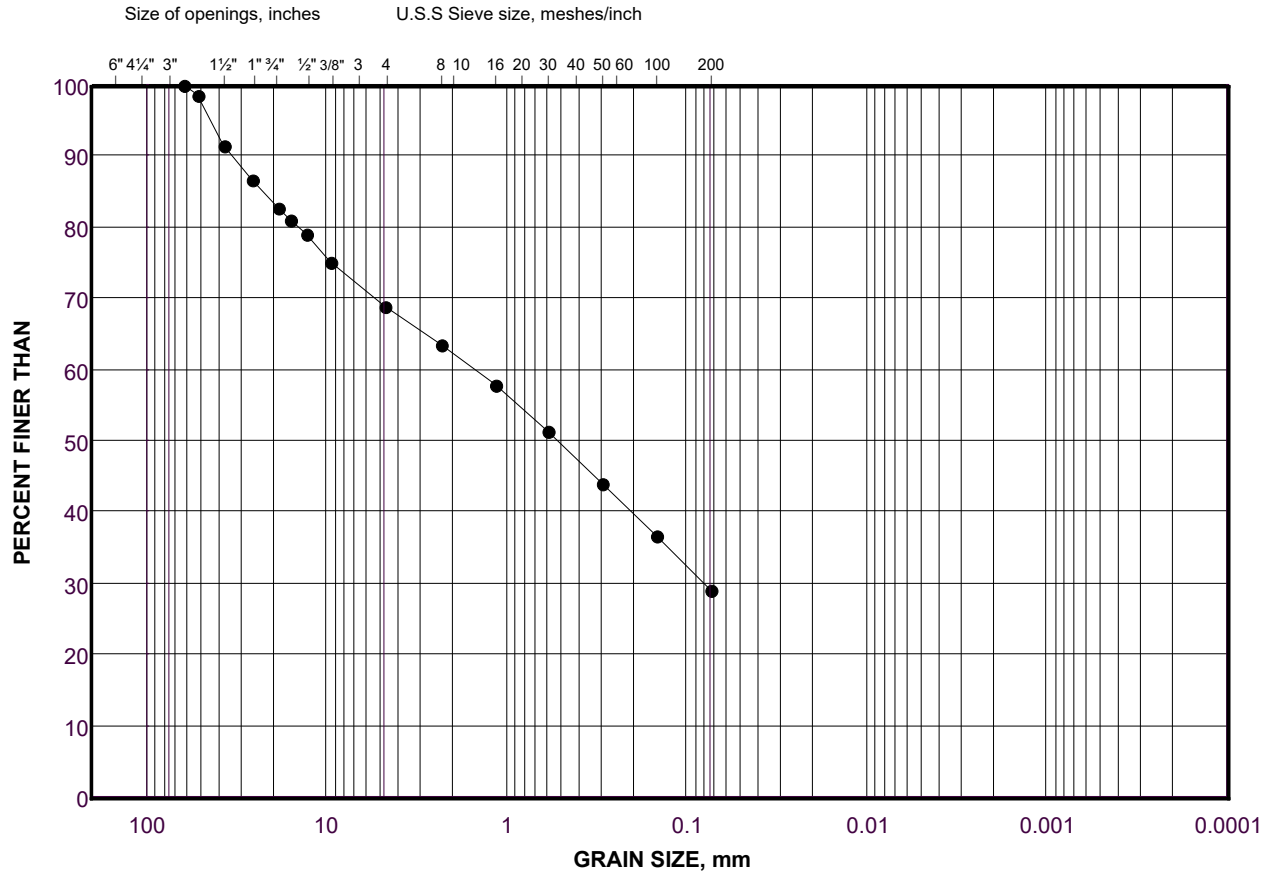
Depth 38
Units Imperial
Testing Date 3/25/22 2:39:12 PM
Tested By Sieve - JB
LabID 22-600

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-02 | 8 | 33.0 - 38.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 14184.7(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 456.00 | 3.21 | 53.00 | 96.8 |
| 37.5mm | 530.00 | 0.52 | 37.50 | 96.3 |
| 26.5mm | 606.10 | 0.54 | 26.50 | 95.7 |
| 19.0mm | 662.00 | 0.39 | 19.00 | 95.3 |
| 16mm | 802.20 | 0.99 | 16.00 | 94.4 |
| 13.2mm | 896.10 | 0.66 | 13.20 | 93.7 |
| 9.5mm | 1124.10 | 1.61 | 9.50 | 92.1 |
| 4.75mm | 1757.90 | 4.47 | 4.75 | 87.6 |
| PAN | 12415.10 | 87.61 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 14.00 | 4.59 | 2.36 | 83.0 |
| 1.18mm | 33.40 | 6.36 | 1.18 | 76.7 |
| 600µm | 64.10 | 10.06 | 0.60 | 66.6 |
| 300µm | 100.70 | 11.99 | 0.30 | 54.6 |
| 150µm | 128.20 | 9.01 | 0.15 | 45.6 |
| 75µm | 153.60 | 8.32 | 0.08 | 37.3 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-02
Sample Number 9
Checked By _____

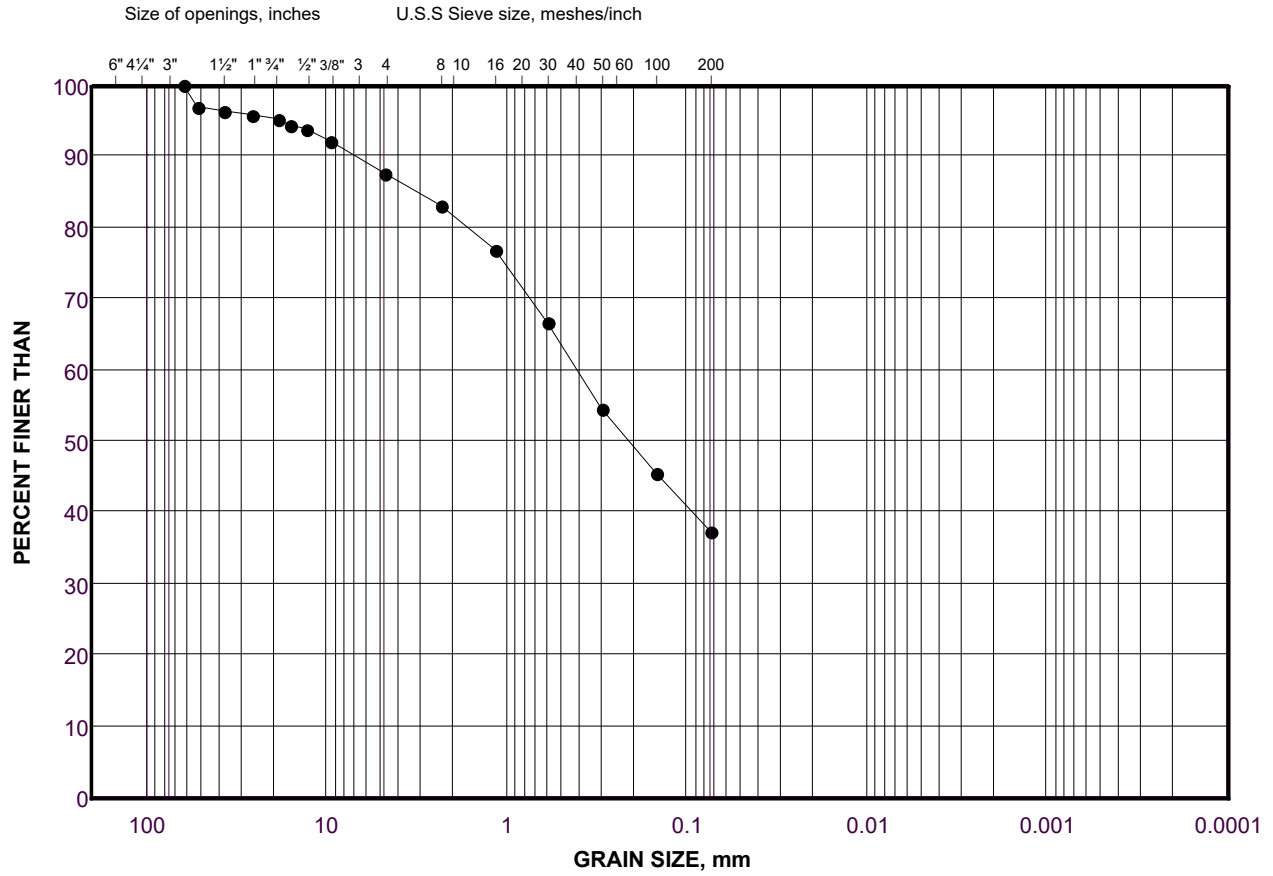
Depth 43
Units Imperial
Testing Date 3/25/22 2:42:03 PM
Tested By Sieve - AM
LabID 22-617

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-02 | 9 | 38.0 - 43.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 18176.8(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 646.10 | 3.55 | 63.00 | 96.5 |
| 53mm | 1374.40 | 4.01 | 53.00 | 92.4 |
| 37.5mm | 2964.70 | 8.75 | 37.50 | 83.7 |
| 26.5mm | 3880.50 | 5.04 | 26.50 | 78.7 |
| 19.0mm | 4659.80 | 4.29 | 19.00 | 74.4 |
| 16mm | 4981.60 | 1.77 | 16.00 | 72.6 |
| 13.2mm | 5400.30 | 2.30 | 13.20 | 70.3 |
| 9.5mm | 6078.00 | 3.73 | 9.50 | 66.6 |
| 4.75mm | 7232.80 | 6.35 | 4.75 | 60.2 |
| PAN | 10917.00 | 60.21 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 22.10 | 4.47 | 2.36 | 55.7 |
| 1.18mm | 48.20 | 5.28 | 1.18 | 50.5 |
| 600µm | 75.70 | 5.57 | 0.60 | 44.9 |
| 300µm | 107.90 | 6.52 | 0.30 | 38.4 |
| 150µm | 142.50 | 7.00 | 0.15 | 31.4 |
| 75µm | 174.20 | 6.42 | 0.08 | 25.0 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-02
Sample Number 10
Checked By _____

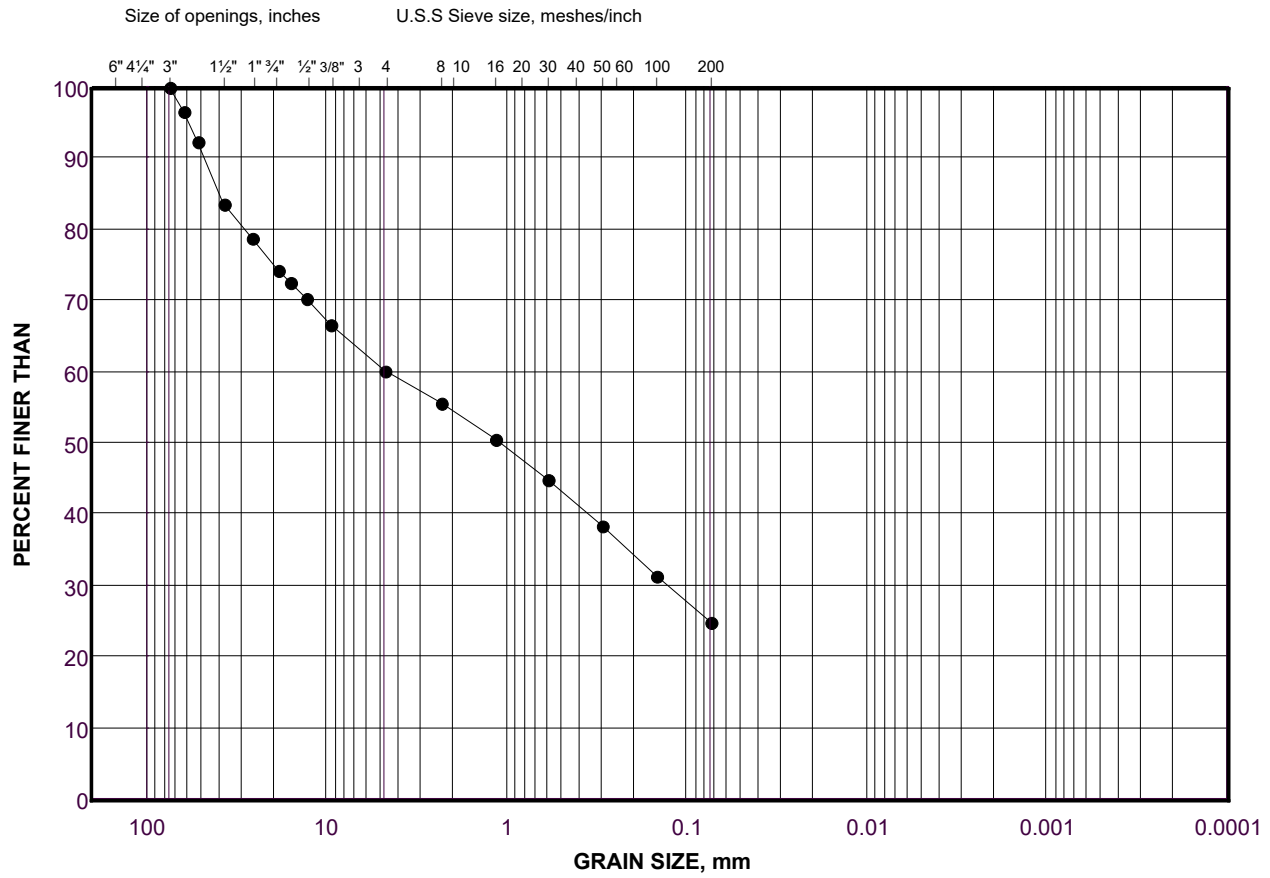
Depth 48
Units Imperial
Testing Date 3/25/22 3:10:51 PM
Tested By Sieve - TP
LabID 22-618

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-02 | 10 | 43.0 - 48.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 15598(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 1312.00 | 8.41 | 63.00 | 91.6 |
| 53mm | 1312.00 | 0.00 | 53.00 | 91.6 |
| 37.5mm | 2072.00 | 4.87 | 37.50 | 86.7 |
| 26.5mm | 2586.00 | 3.30 | 26.50 | 83.4 |
| 19.0mm | 3472.00 | 5.68 | 19.00 | 77.7 |
| 16mm | 3756.00 | 1.82 | 16.00 | 75.9 |
| 13.2mm | 4018.00 | 1.68 | 13.20 | 74.2 |
| 9.5mm | 4642.00 | 4.00 | 9.50 | 70.2 |
| 4.75mm | 5756.00 | 7.14 | 4.75 | 63.1 |
| PAN | 9842.00 | 63.10 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 33.65 | 6.12 | 2.36 | 57.0 |
| 1.18mm | 65.78 | 5.85 | 1.18 | 51.1 |
| 600µm | 98.70 | 5.99 | 0.60 | 45.1 |
| 300µm | 132.99 | 6.24 | 0.30 | 38.9 |
| 150µm | 168.40 | 6.44 | 0.15 | 32.5 |
| 75µm | 200.51 | 5.84 | 0.08 | 26.6 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-02
Sample Number 11
Checked By _____

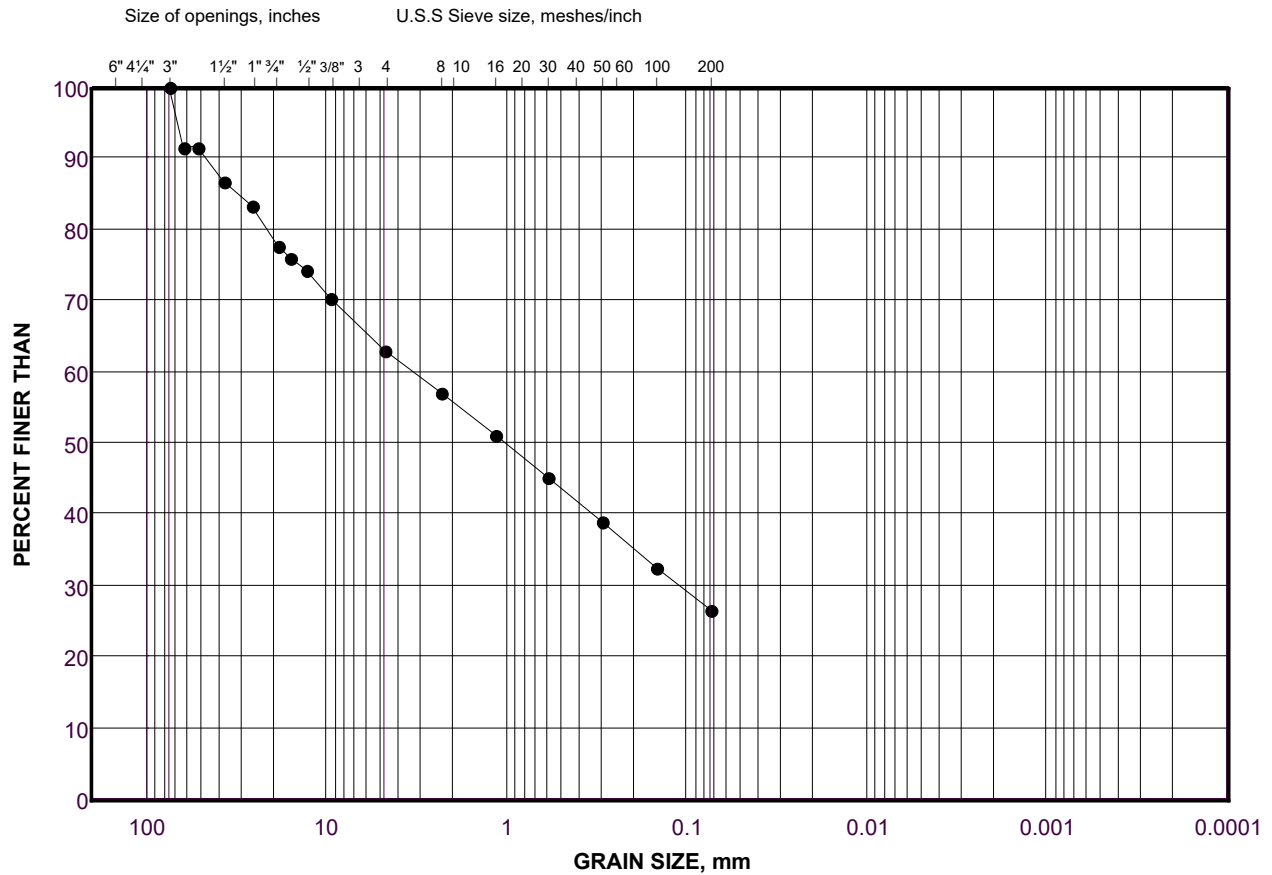
Depth 53
Units Imperial
Testing Date 3/25/22 3:13:20 PM
Tested By Sieve -
LabID 22-601

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-02 | 11 | 48.0 - 53.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 17591.3(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 838.20 | 4.76 | 53.00 | 95.2 |
| 37.5mm | 1303.10 | 2.64 | 37.50 | 92.6 |
| 26.5mm | 2261.40 | 5.45 | 26.50 | 87.2 |
| 19.0mm | 2995.20 | 4.17 | 19.00 | 83.0 |
| 16mm | 3446.80 | 2.57 | 16.00 | 80.4 |
| 13.2mm | 3780.20 | 1.90 | 13.20 | 78.5 |
| 9.5mm | 4662.40 | 5.01 | 9.50 | 73.5 |
| 4.75mm | 6296.10 | 9.29 | 4.75 | 64.2 |
| PAN | 11248.70 | 64.21 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 33.80 | 8.42 | 2.36 | 55.8 |
| 1.18mm | 68.70 | 8.69 | 1.18 | 47.1 |
| 600µm | 97.70 | 7.22 | 0.60 | 39.9 |
| 300µm | 121.50 | 5.93 | 0.30 | 34.0 |
| 150µm | 140.70 | 4.78 | 0.15 | 29.2 |
| 75µm | 161.90 | 5.28 | 0.08 | 23.9 |

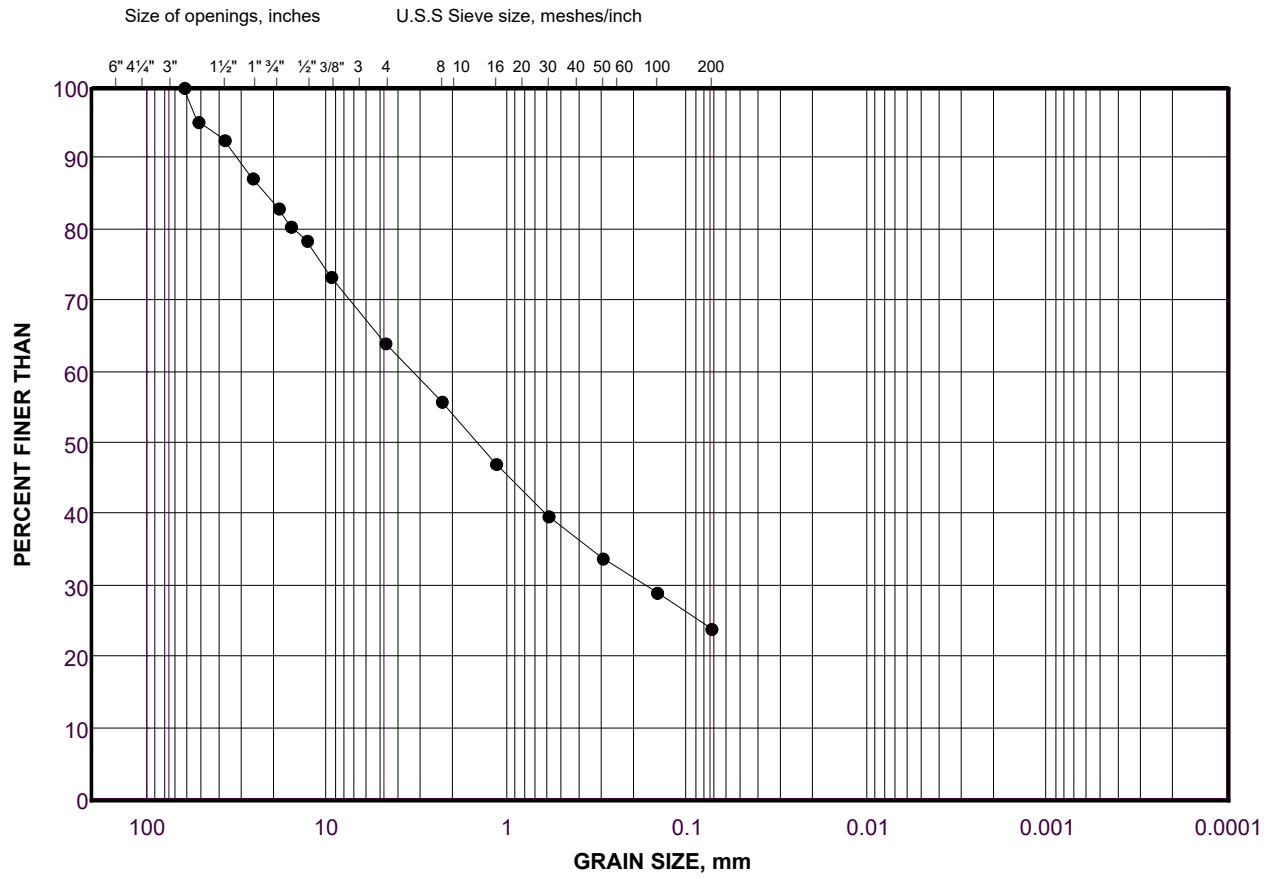
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 58 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | BH 21-02 | Testing Date | 3/29/22 9:42:00 AM |
| Sample Number | 12 | Tested By | Sieve - AM |
| Checked By | _____ | LabID | 22-649 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-02 | 12 | 53.0 - 58.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 15836(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1362.00 | 8.60 | 75.00 | 91.4 |
| 63mm | 1362.00 | 0.00 | 63.00 | 91.4 |
| 53mm | 1714.00 | 2.22 | 53.00 | 89.2 |
| 37.5mm | 2678.00 | 6.09 | 37.50 | 83.1 |
| 26.5mm | 3526.00 | 5.35 | 26.50 | 77.7 |
| 19.0mm | 4212.00 | 4.33 | 19.00 | 73.4 |
| 16mm | 4578.00 | 2.31 | 16.00 | 71.1 |
| 13.2mm | 5112.00 | 3.37 | 13.20 | 67.7 |
| 9.5mm | 6084.00 | 6.14 | 9.50 | 61.6 |
| 4.75mm | 7724.00 | 10.36 | 4.75 | 51.2 |
| PAN | 8112.00 | 51.23 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 48.79 | 7.24 | 2.36 | 44.0 |
| 1.18mm | 103.24 | 8.08 | 1.18 | 35.9 |
| 600µm | 151.20 | 7.12 | 0.60 | 28.8 |
| 300µm | 183.67 | 4.82 | 0.30 | 24.0 |
| 150µm | 208.59 | 3.70 | 0.15 | 20.3 |
| 75µm | 237.99 | 4.36 | 0.08 | 15.9 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-02
Sample Number 13
Checked By _____

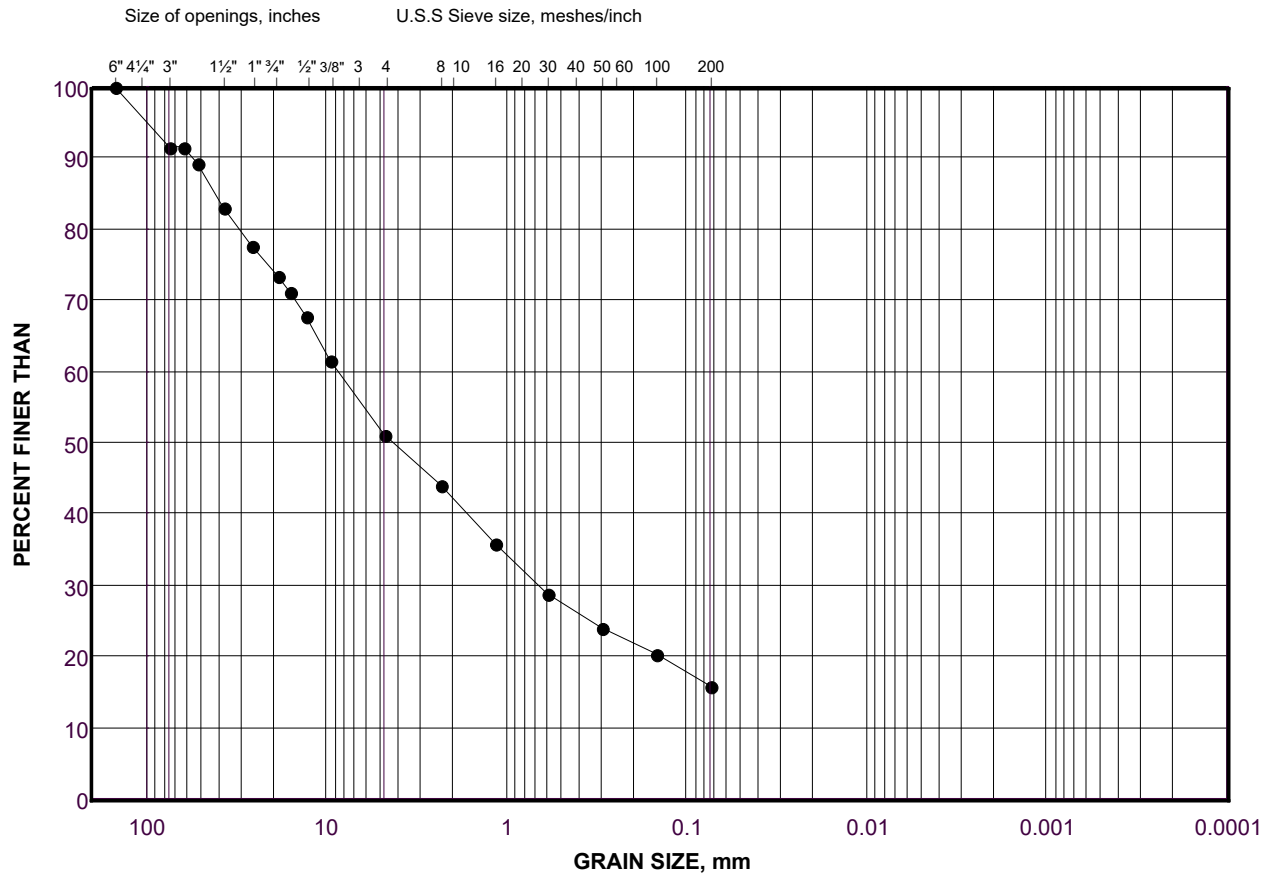
Depth 63
Units Imperial
Testing Date 3/25/22 3:18:12 PM
Tested By Sieve - JB
LabID 22-602

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-02 | 13 | 58.0 - 63.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 17165(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 1505.60 | 8.77 | 63.00 | 91.2 |
| 53mm | 2384.90 | 5.12 | 53.00 | 86.1 |
| 37.5mm | 3733.80 | 7.86 | 37.50 | 78.3 |
| 26.5mm | 5458.30 | 10.05 | 26.50 | 68.2 |
| 19.0mm | 6432.10 | 5.67 | 19.00 | 62.5 |
| 16mm | 6940.40 | 2.96 | 16.00 | 59.6 |
| 13.2mm | 7445.40 | 2.94 | 13.20 | 56.6 |
| 9.5mm | 8440.60 | 5.80 | 9.50 | 50.8 |
| 4.75mm | 10037.60 | 9.30 | 4.75 | 41.5 |
| PAN | 7086.80 | 41.53 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 54.10 | 7.88 | 2.36 | 33.7 |
| 1.18mm | 109.80 | 8.11 | 1.18 | 25.5 |
| 600µm | 152.60 | 6.23 | 0.60 | 19.3 |
| 300µm | 183.20 | 4.46 | 0.30 | 14.9 |
| 150µm | 202.80 | 2.85 | 0.15 | 12.0 |
| 75µm | 220.40 | 2.56 | 0.08 | 9.4 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-02
Sample Number 14
Checked By _____

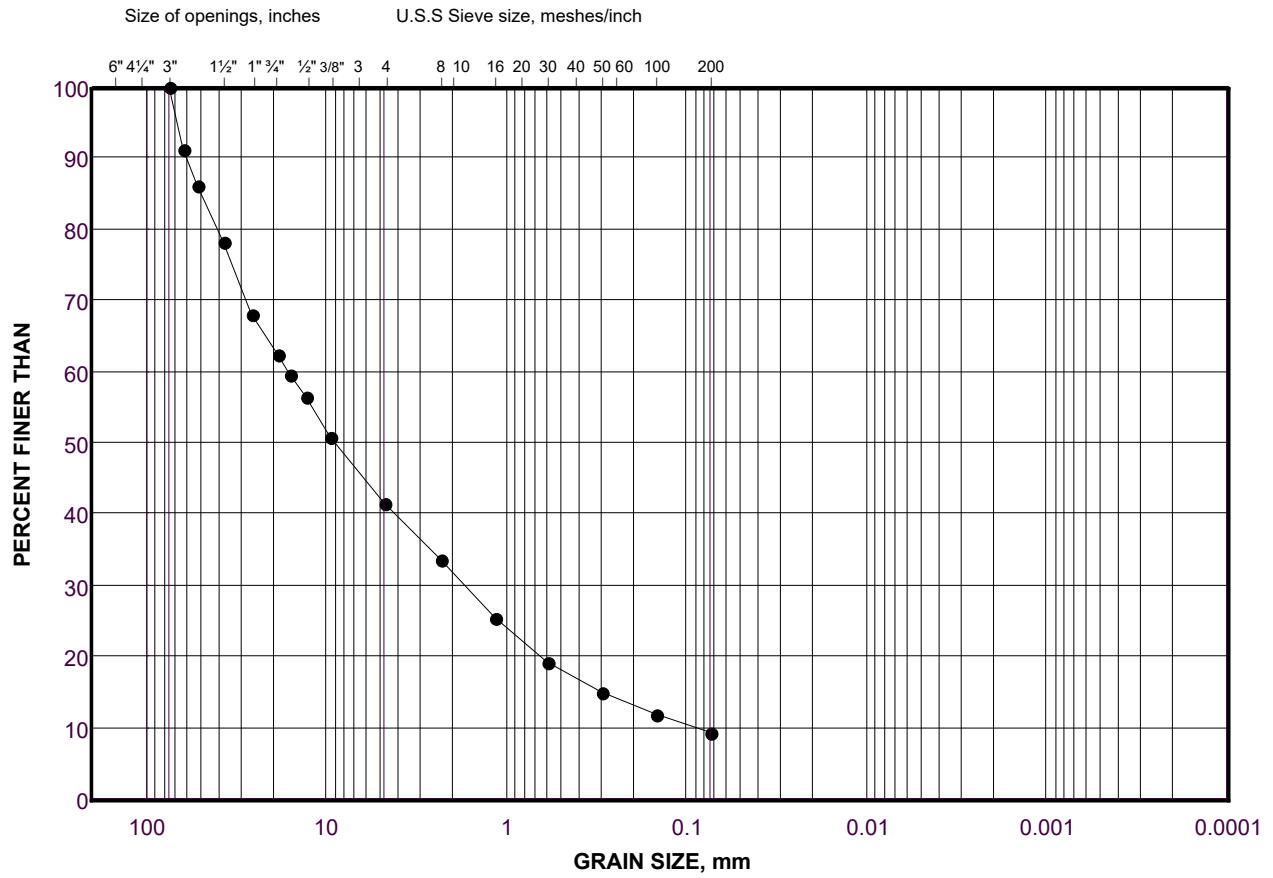
Depth 68
Units Imperial
Testing Date 3/25/22 3:23:23 PM
Tested By Sieve - TP
LabID 22-619

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-02 | 14 | 63.0 - 68.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 18688.2(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 477.30 | 2.55 | 63.00 | 97.5 |
| 53mm | 477.30 | 0.00 | 53.00 | 97.5 |
| 37.5mm | 3129.60 | 14.19 | 37.50 | 83.3 |
| 26.5mm | 4380.10 | 6.69 | 26.50 | 76.6 |
| 19.0mm | 6008.50 | 8.71 | 19.00 | 67.9 |
| 16mm | 7064.80 | 5.65 | 16.00 | 62.2 |
| 13.2mm | 7370.10 | 1.63 | 13.20 | 60.6 |
| 9.5mm | 9206.70 | 9.83 | 9.50 | 50.8 |
| 4.75mm | 11117.30 | 10.22 | 4.75 | 40.5 |
| PAN | 7552.30 | 40.53 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 49.00 | 7.25 | 2.36 | 33.3 |
| 1.18mm | 98.90 | 7.38 | 1.18 | 25.9 |
| 600µm | 141.70 | 6.33 | 0.60 | 19.6 |
| 300µm | 173.80 | 4.75 | 0.30 | 14.8 |
| 150µm | 200.00 | 3.87 | 0.15 | 11.0 |
| 75µm | 220.30 | 3.00 | 0.08 | 8.0 |

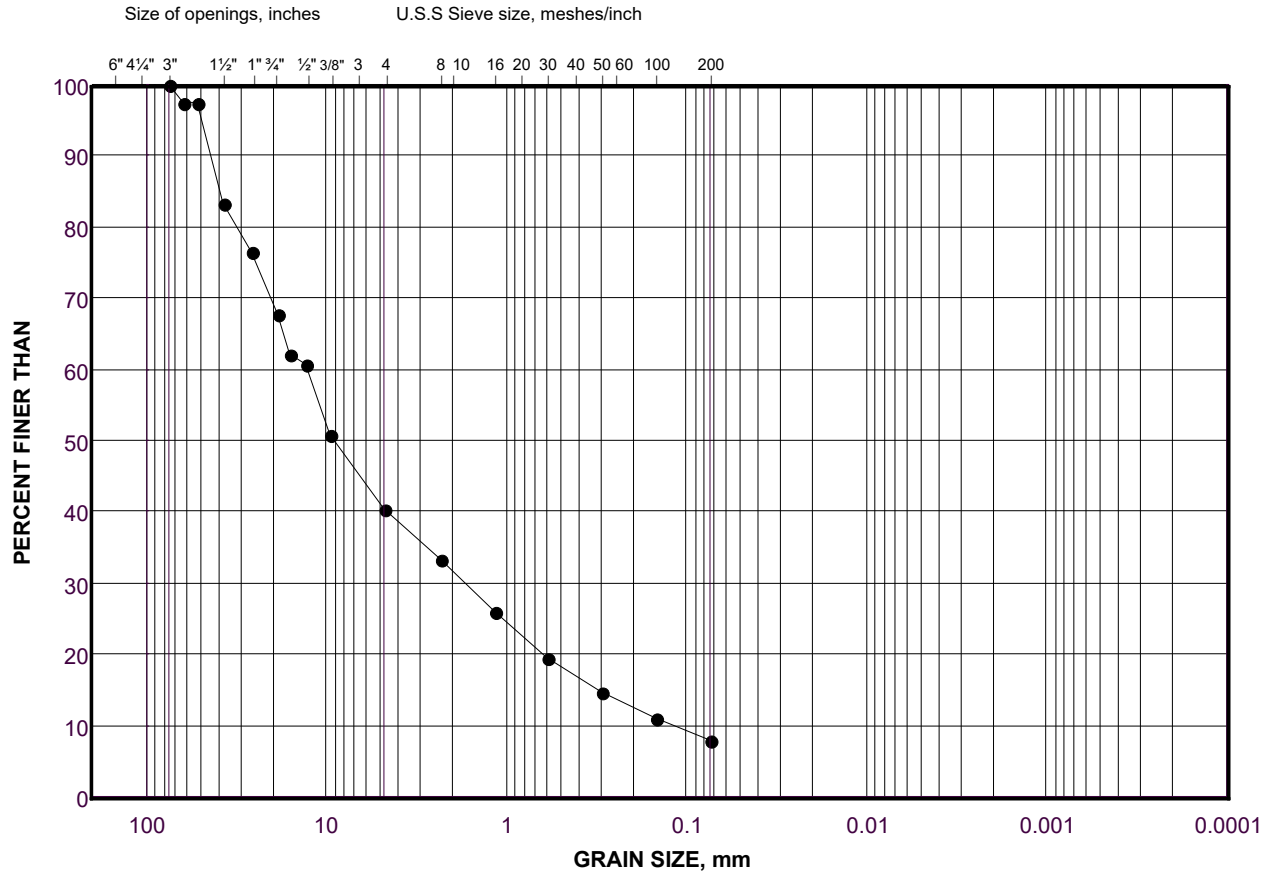
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 73 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | BH 21-02 | Testing Date | 3/25/22 3:28:07 PM |
| Sample Number | 15 | Tested By | Sieve - AM |
| Checked By | _____ | LabID | 22-204 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |
| SIZE | | | | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-02 | 15 | 68.0 - 73.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 20182.9(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1991.20 | 9.87 | 75.00 | 90.1 |
| 63mm | 1991.20 | 0.00 | 63.00 | 90.1 |
| 53mm | 1991.20 | 0.00 | 53.00 | 90.1 |
| 37.5mm | 3990.30 | 9.90 | 37.50 | 80.2 |
| 26.5mm | 5535.00 | 7.65 | 26.50 | 72.6 |
| 19.0mm | 6935.00 | 6.94 | 19.00 | 65.6 |
| 16mm | 7729.40 | 3.94 | 16.00 | 61.7 |
| 13.2mm | 8311.20 | 2.88 | 13.20 | 58.8 |
| 9.5mm | 9673.20 | 6.75 | 9.50 | 52.1 |
| 4.75mm | 11830.90 | 10.69 | 4.75 | 41.4 |
| PAN | 8329.80 | 41.38 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 59.00 | 8.59 | 2.36 | 32.8 |
| 1.18mm | 117.70 | 8.55 | 1.18 | 24.2 |
| 600µm | 160.90 | 6.29 | 0.60 | 18.0 |
| 300µm | 190.60 | 4.33 | 0.30 | 13.6 |
| 150µm | 212.20 | 3.15 | 0.15 | 10.5 |
| 75µm | 230.20 | 2.62 | 0.08 | 7.9 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-02
Sample Number 16
Checked By _____

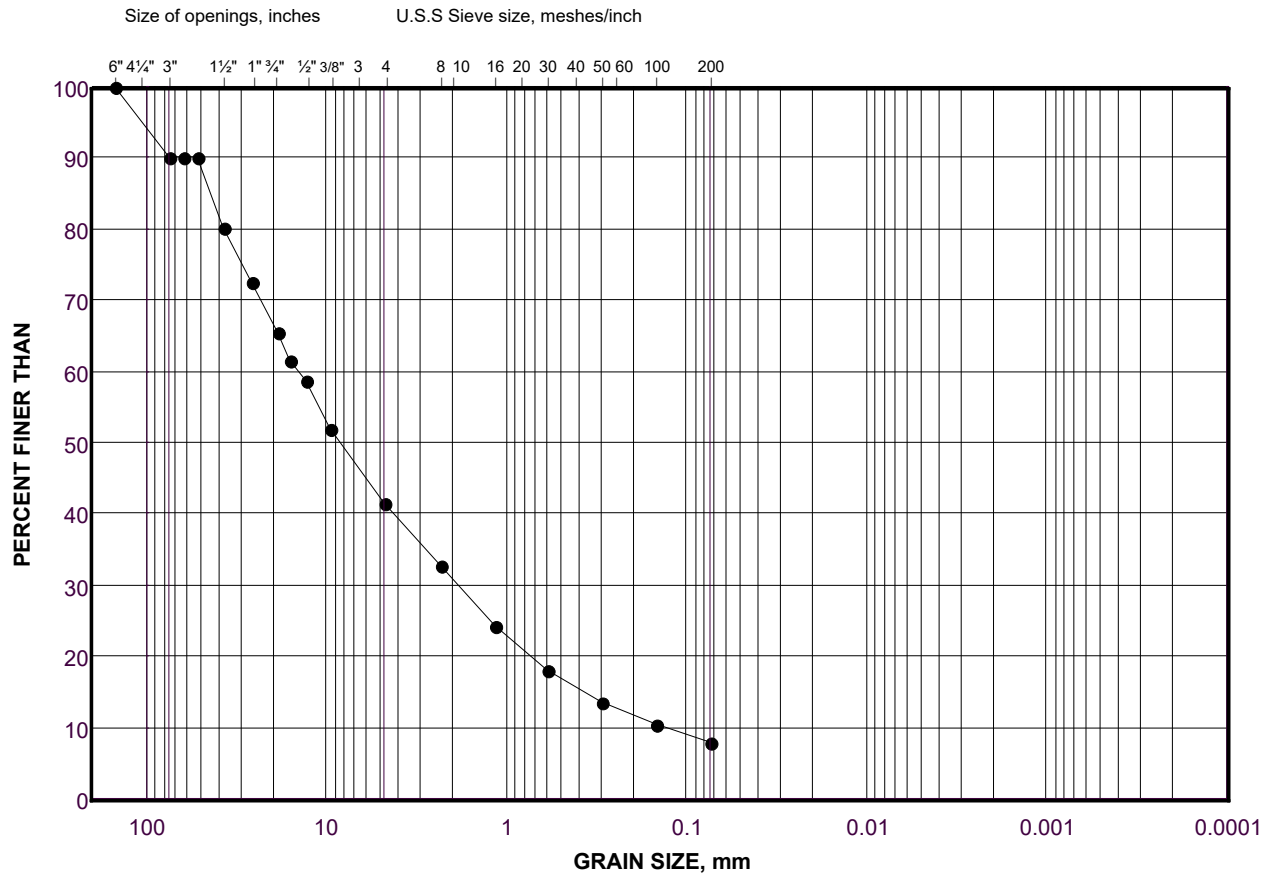
Depth 78
Units Metric
Testing Date 3/25/22 3:43:55 PM
Tested By Sieve - AM
LabID 22-199

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |
| SIZE | | | | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(m) |
|--------|----------|--------|-------------|
| ● | BH 21-02 | 16 | 73.0 - 78.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 8457.9(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 870.50 | 10.29 | 63.00 | 89.7 |
| 53mm | 1129.10 | 3.06 | 53.00 | 86.7 |
| 37.5mm | 2226.80 | 12.98 | 37.50 | 73.7 |
| 26.5mm | 3008.50 | 9.24 | 26.50 | 64.4 |
| 19.0mm | 3474.30 | 5.51 | 19.00 | 58.9 |
| 16mm | 3672.20 | 2.34 | 16.00 | 56.6 |
| 13.2mm | 3829.00 | 1.85 | 13.20 | 54.7 |
| 9.5mm | 4132.60 | 3.59 | 9.50 | 51.1 |
| 4.75mm | 4632.40 | 5.91 | 4.75 | 45.2 |
| PAN | 3825.50 | 45.23 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 26.20 | 4.13 | 2.36 | 41.1 |
| 1.18mm | 55.40 | 4.60 | 1.18 | 36.5 |
| 600µm | 82.20 | 4.23 | 0.60 | 32.3 |
| 300µm | 109.50 | 4.30 | 0.30 | 28.0 |
| 150µm | 143.20 | 5.31 | 0.15 | 22.7 |
| 75µm | 185.00 | 6.59 | 0.08 | 16.1 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-03
Sample Number 1B
Checked By _____

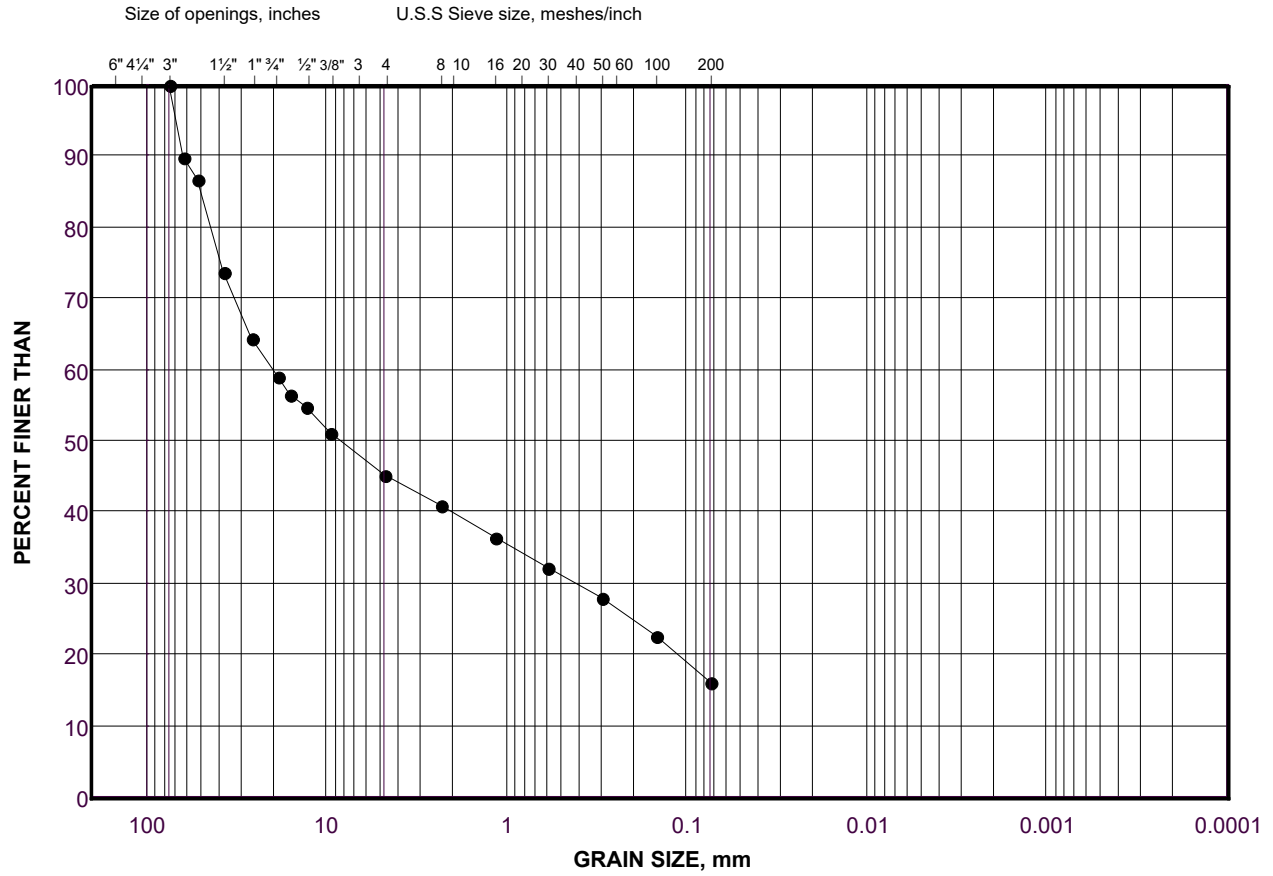
Depth 3
Units Imperial
Testing Date 3/25/22 3:48:43 PM
Tested By Sieve - LB
LabID 22-561

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|------------|
| ● | BH 21-03 | 1B | 0.50 - 3.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 16584.5(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1774.60 | 10.70 | 75.00 | 89.3 |
| 63mm | 1774.60 | 0.00 | 63.00 | 89.3 |
| 53mm | 2008.80 | 1.41 | 53.00 | 87.9 |
| 37.5mm | 2753.40 | 4.49 | 37.50 | 83.4 |
| 26.5mm | 3748.60 | 6.00 | 26.50 | 77.4 |
| 19.0mm | 4217.80 | 2.83 | 19.00 | 74.6 |
| 16mm | 4565.30 | 2.10 | 16.00 | 72.5 |
| 13.2mm | 4894.20 | 1.98 | 13.20 | 70.5 |
| 9.5mm | 5536.10 | 3.87 | 9.50 | 66.6 |
| 4.75mm | 6651.00 | 6.72 | 4.75 | 59.9 |
| PAN | 9933.50 | 59.90 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 22.60 | 5.19 | 2.36 | 54.7 |
| 1.18mm | 49.10 | 6.09 | 1.18 | 48.6 |
| 600µm | 72.80 | 5.44 | 0.60 | 43.2 |
| 300µm | 96.80 | 5.51 | 0.30 | 37.7 |
| 150µm | 122.90 | 5.99 | 0.15 | 31.7 |
| 75µm | 151.60 | 6.59 | 0.08 | 25.1 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-03
Sample Number 2
Checked By _____

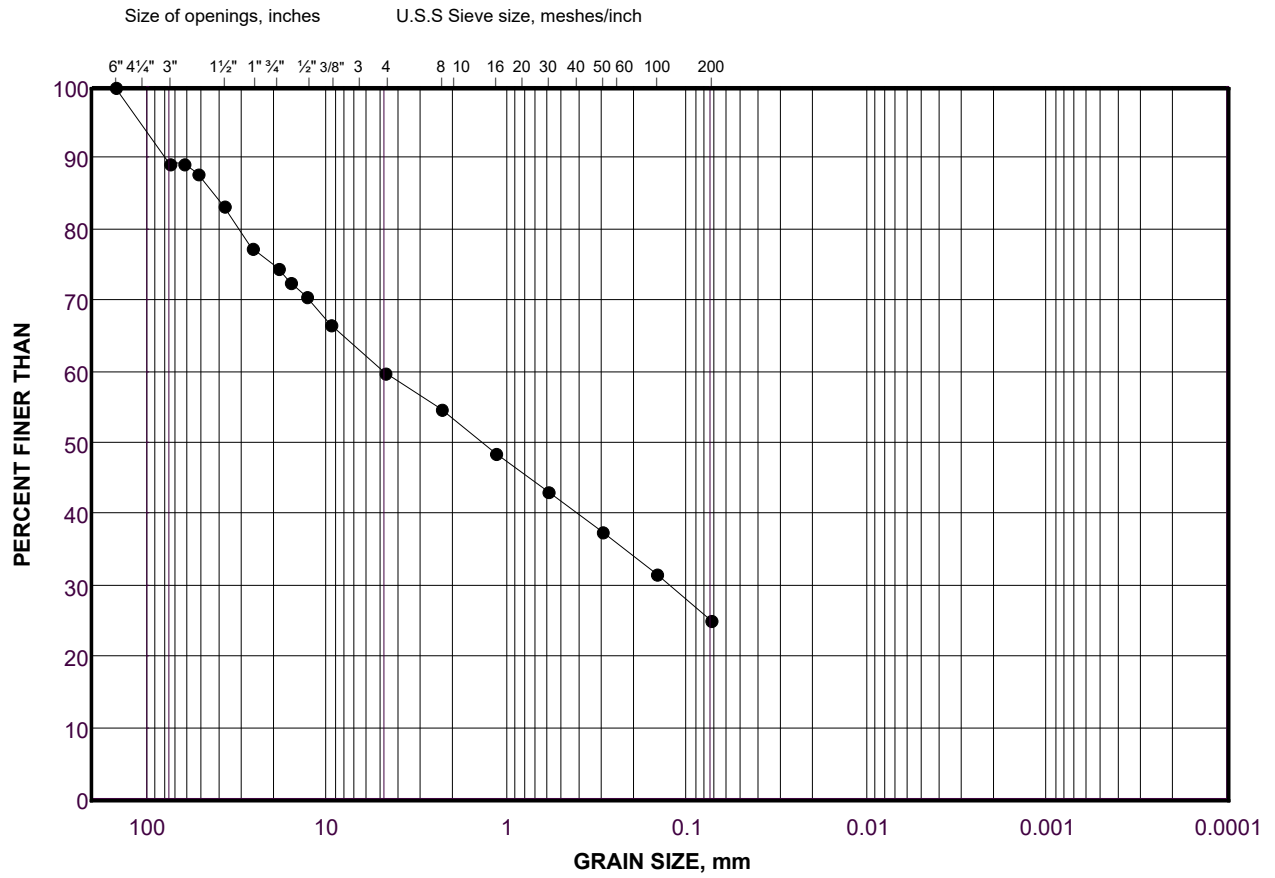
Depth 8
Units Imperial
Testing Date 3/25/22 3:50:41 PM
Tested By Sieve - TP
LabID 22-216

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-----------|
| ● | BH 21-03 | 2 | 3.0 - 8.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 15025(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1082.00 | 7.20 | 75.00 | 92.8 |
| 63mm | 1922.00 | 5.59 | 63.00 | 87.2 |
| 53mm | 2174.00 | 1.68 | 53.00 | 85.5 |
| 37.5mm | 2556.00 | 2.54 | 37.50 | 83.0 |
| 26.5mm | 3330.00 | 5.15 | 26.50 | 77.8 |
| 19.0mm | 3466.00 | 0.91 | 19.00 | 76.9 |
| 16mm | 4214.00 | 4.98 | 16.00 | 72.0 |
| 13.2mm | 4470.00 | 1.70 | 13.20 | 70.3 |
| 9.5mm | 5168.00 | 4.65 | 9.50 | 65.6 |
| 4.75mm | 6340.00 | 7.80 | 4.75 | 57.8 |
| PAN | 8685.00 | 57.80 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 48.13 | 8.03 | 2.36 | 49.8 |
| 1.18mm | 89.63 | 6.93 | 1.18 | 42.8 |
| 600µm | 127.33 | 6.29 | 0.60 | 36.6 |
| 300µm | 163.51 | 6.04 | 0.30 | 30.5 |
| 150µm | 199.88 | 6.07 | 0.15 | 24.4 |
| 75µm | 232.90 | 5.51 | 0.08 | 18.9 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-03
Sample Number 3
Checked By _____

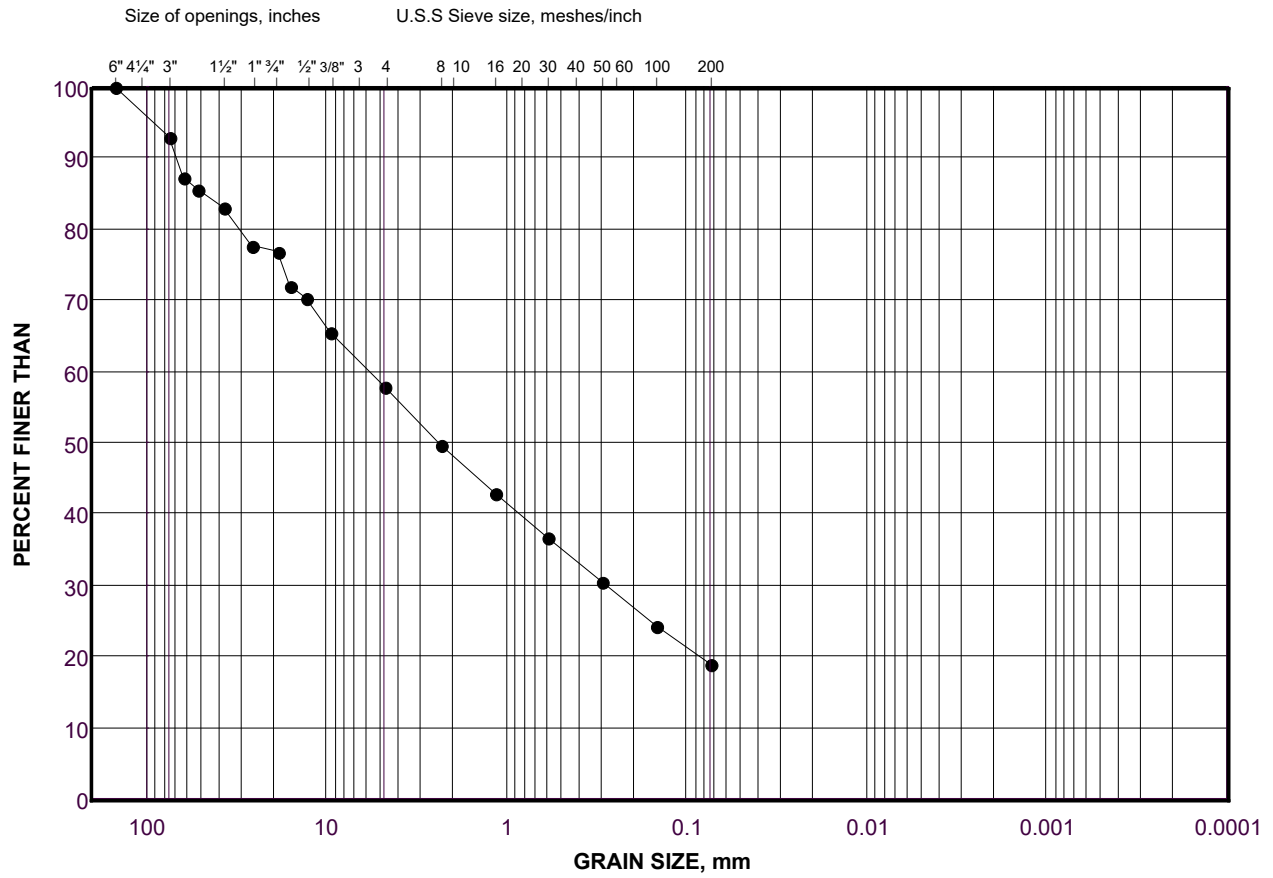
Depth 13
Units Imperial
Testing Date 3/25/22 3:54:53 PM
Tested By Sieve - JB
LabID 22-603

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |
| SIZE | | | | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|------------|
| • | BH 21-03 | 3 | 8.0 - 13.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 15792.5(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 1074.20 | 6.80 | 53.00 | 93.2 |
| 37.5mm | 1167.80 | 0.59 | 37.50 | 92.6 |
| 26.5mm | 2194.50 | 6.50 | 26.50 | 86.1 |
| 19.0mm | 3005.60 | 5.14 | 19.00 | 81.0 |
| 16mm | 3415.80 | 2.60 | 16.00 | 78.4 |
| 13.2mm | 3766.50 | 2.22 | 13.20 | 76.2 |
| 9.5mm | 4661.80 | 5.67 | 9.50 | 70.5 |
| 4.75mm | 6134.80 | 9.33 | 4.75 | 61.2 |
| PAN | 9633.40 | 61.15 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 35.40 | 8.22 | 2.36 | 52.9 |
| 1.18mm | 76.60 | 9.57 | 1.18 | 43.4 |
| 600µm | 118.00 | 9.62 | 0.60 | 33.7 |
| 300µm | 155.90 | 8.81 | 0.30 | 24.9 |
| 150µm | 186.00 | 6.99 | 0.15 | 17.9 |
| 75µm | 205.30 | 4.48 | 0.08 | 13.5 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-03
Sample Number 4
Checked By _____

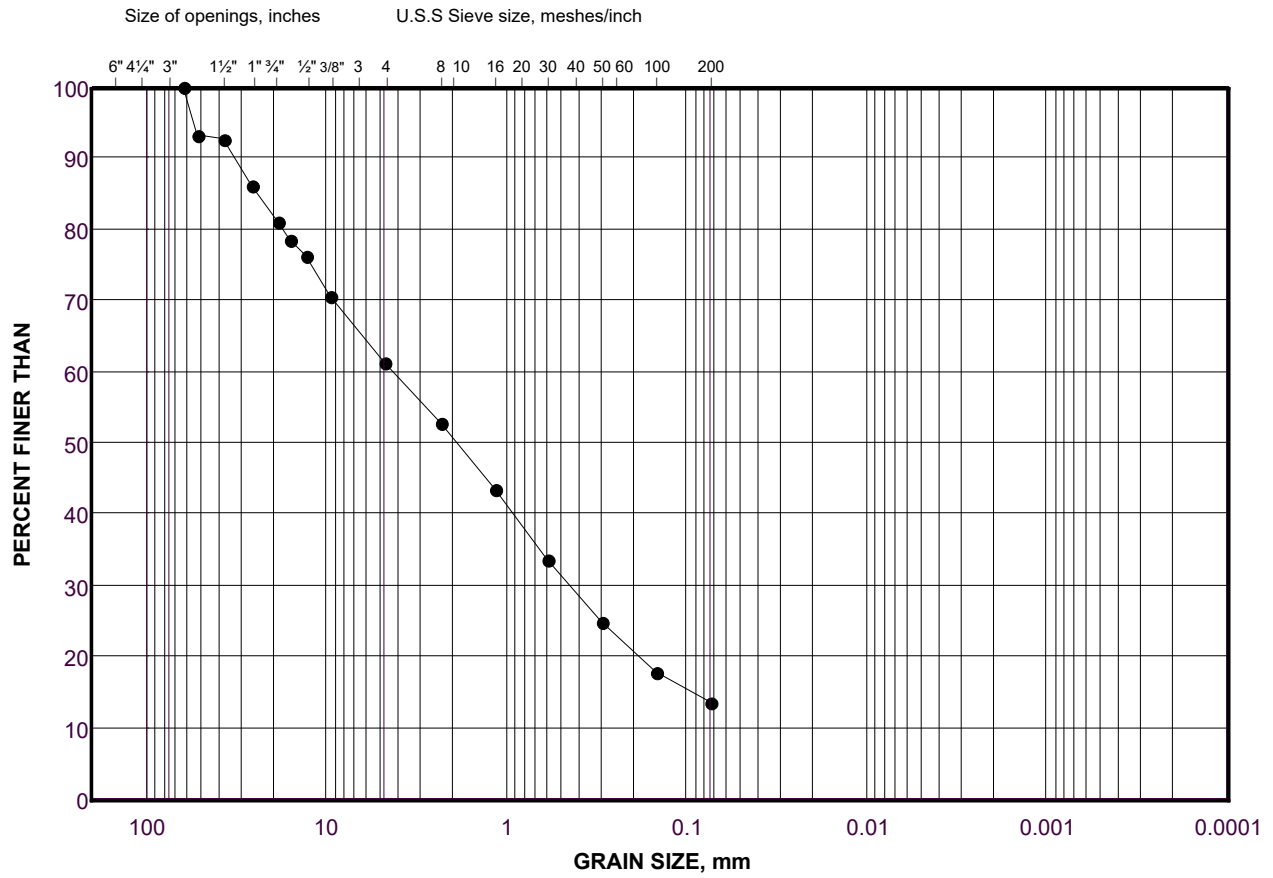
Depth 18
Units Imperial
Testing Date 3/25/22 4:03:38 PM
Tested By Sieve - LB
LabID 22-620

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-03 | 4 | 13.0 - 18.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 15305(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 590.40 | 3.86 | 63.00 | 96.1 |
| 53mm | 1160.30 | 3.72 | 53.00 | 92.4 |
| 37.5mm | 2622.80 | 9.56 | 37.50 | 82.9 |
| 26.5mm | 3595.60 | 6.36 | 26.50 | 76.5 |
| 19.0mm | 4770.60 | 7.68 | 19.00 | 68.8 |
| 16mm | 5198.20 | 2.79 | 16.00 | 66.0 |
| 13.2mm | 5659.20 | 3.01 | 13.20 | 63.0 |
| 9.5mm | 6635.40 | 6.38 | 9.50 | 56.6 |
| 4.75mm | 8078.10 | 9.43 | 4.75 | 47.2 |
| PAN | 7226.90 | 47.21 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 42.20 | 7.65 | 2.36 | 39.6 |
| 1.18mm | 81.90 | 7.19 | 1.18 | 32.4 |
| 600µm | 113.90 | 5.80 | 0.60 | 26.6 |
| 300µm | 140.70 | 4.86 | 0.30 | 21.7 |
| 150µm | 164.80 | 4.37 | 0.15 | 17.3 |
| 75µm | 186.40 | 3.91 | 0.08 | 13.4 |

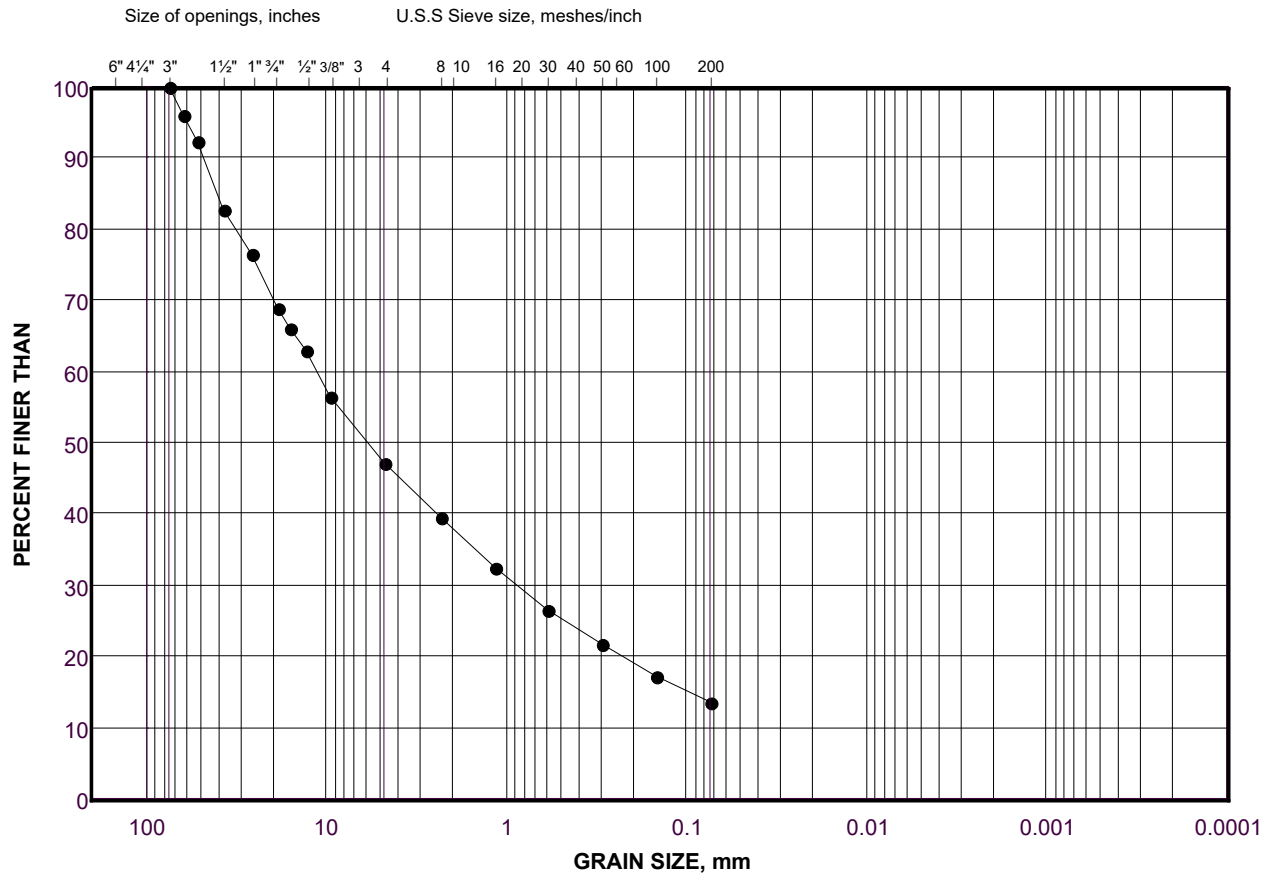
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 23 |
| Project Task | 1000 | Units | Metric |
| Borehole Number | BH 21-03 | Testing Date | 3/25/22 4:05:32 PM |
| Sample Number | 5 | Tested By | Sieve - IC |
| Checked By | _____ | LabID | 22-553 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(m) |
|--------|----------|--------|-------------|
| ● | BH 21-03 | 5 | 18.0 - 23.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 15374.5(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 354.90 | 2.31 | 63.00 | 97.7 |
| 53mm | 914.70 | 3.64 | 53.00 | 94.1 |
| 37.5mm | 2610.50 | 11.03 | 37.50 | 83.0 |
| 26.5mm | 4300.60 | 10.99 | 26.50 | 72.0 |
| 19.0mm | 5584.30 | 8.35 | 19.00 | 63.7 |
| 16mm | 6253.40 | 4.35 | 16.00 | 59.3 |
| 13.2mm | 6755.00 | 3.26 | 13.20 | 56.1 |
| 9.5mm | 7750.20 | 6.47 | 9.50 | 49.6 |
| 4.75mm | 9162.00 | 9.18 | 4.75 | 40.4 |
| PAN | 6180.80 | 40.42 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 45.50 | 6.81 | 2.36 | 33.6 |
| 1.18mm | 83.10 | 5.63 | 1.18 | 28.0 |
| 600µm | 114.50 | 4.70 | 0.60 | 23.3 |
| 300µm | 142.50 | 4.19 | 0.30 | 19.1 |
| 150µm | 169.30 | 4.01 | 0.15 | 15.1 |
| 75µm | 193.80 | 3.67 | 0.08 | 11.4 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-03
Sample Number 6
Checked By _____

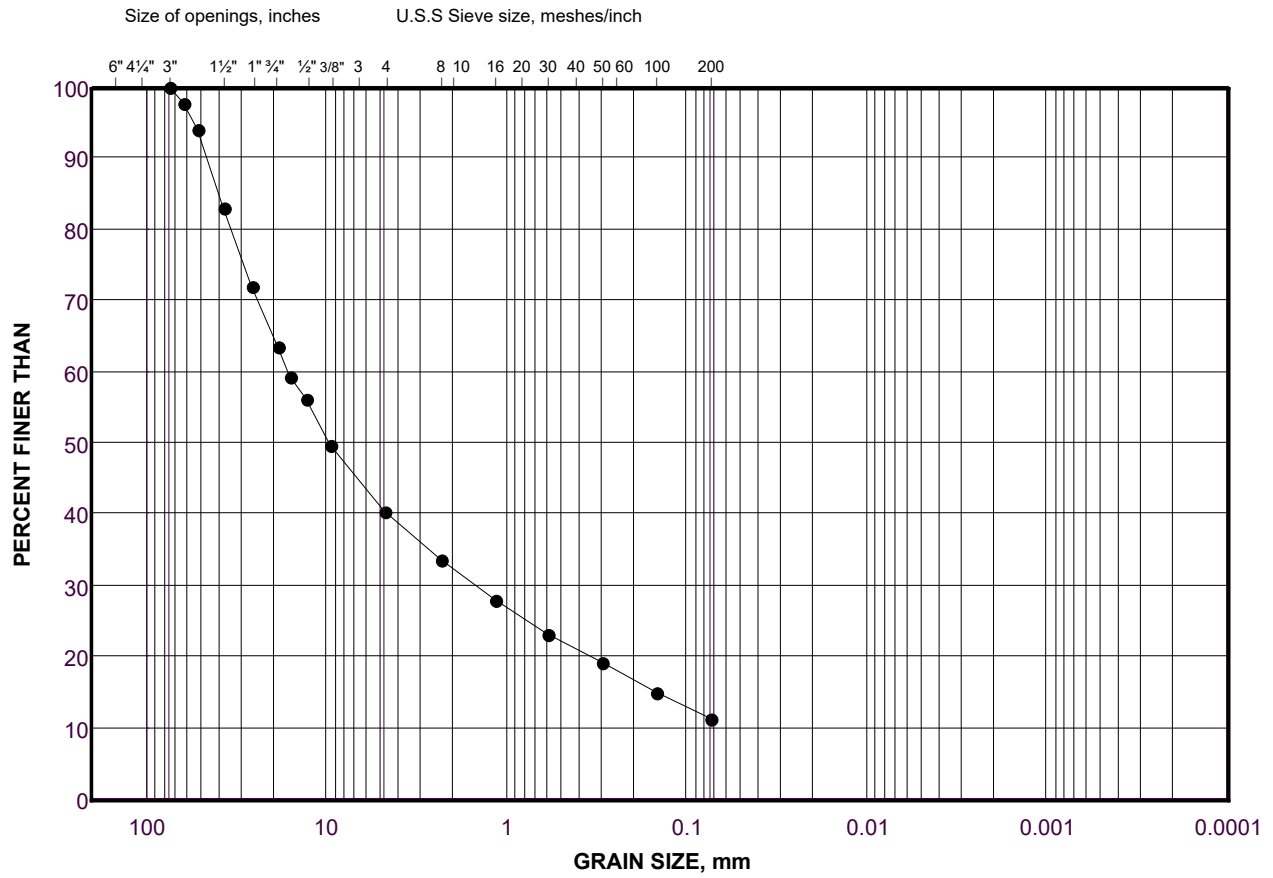
Depth 28
Units Imperial
Testing Date 3/25/22 4:07:54 PM
Tested By Sieve - TP
LabID 22-621

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-03 | 6 | 23.0 - 28.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 15531.5(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 622.90 | 4.01 | 75.00 | 96.0 |
| 63mm | 1615.20 | 6.39 | 63.00 | 89.6 |
| 53mm | 1897.10 | 1.82 | 53.00 | 87.8 |
| 37.5mm | 3342.00 | 9.30 | 37.50 | 78.5 |
| 26.5mm | 3812.90 | 3.03 | 26.50 | 75.5 |
| 19.0mm | 4573.10 | 4.89 | 19.00 | 70.6 |
| 16mm | 4941.90 | 2.37 | 16.00 | 68.2 |
| 13.2mm | 5215.70 | 1.76 | 13.20 | 66.4 |
| 9.5mm | 5822.40 | 3.91 | 9.50 | 62.5 |
| 4.75mm | 7035.70 | 7.81 | 4.75 | 54.7 |
| PAN | 8481.50 | 54.71 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 26.60 | 5.31 | 2.36 | 49.4 |
| 1.18mm | 52.70 | 5.21 | 1.18 | 44.2 |
| 600µm | 75.80 | 4.61 | 0.60 | 39.6 |
| 300µm | 99.10 | 4.65 | 0.30 | 34.9 |
| 150µm | 125.10 | 5.19 | 0.15 | 29.7 |
| 75µm | 152.20 | 5.41 | 0.08 | 24.3 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-03
Sample Number 7
Checked By _____

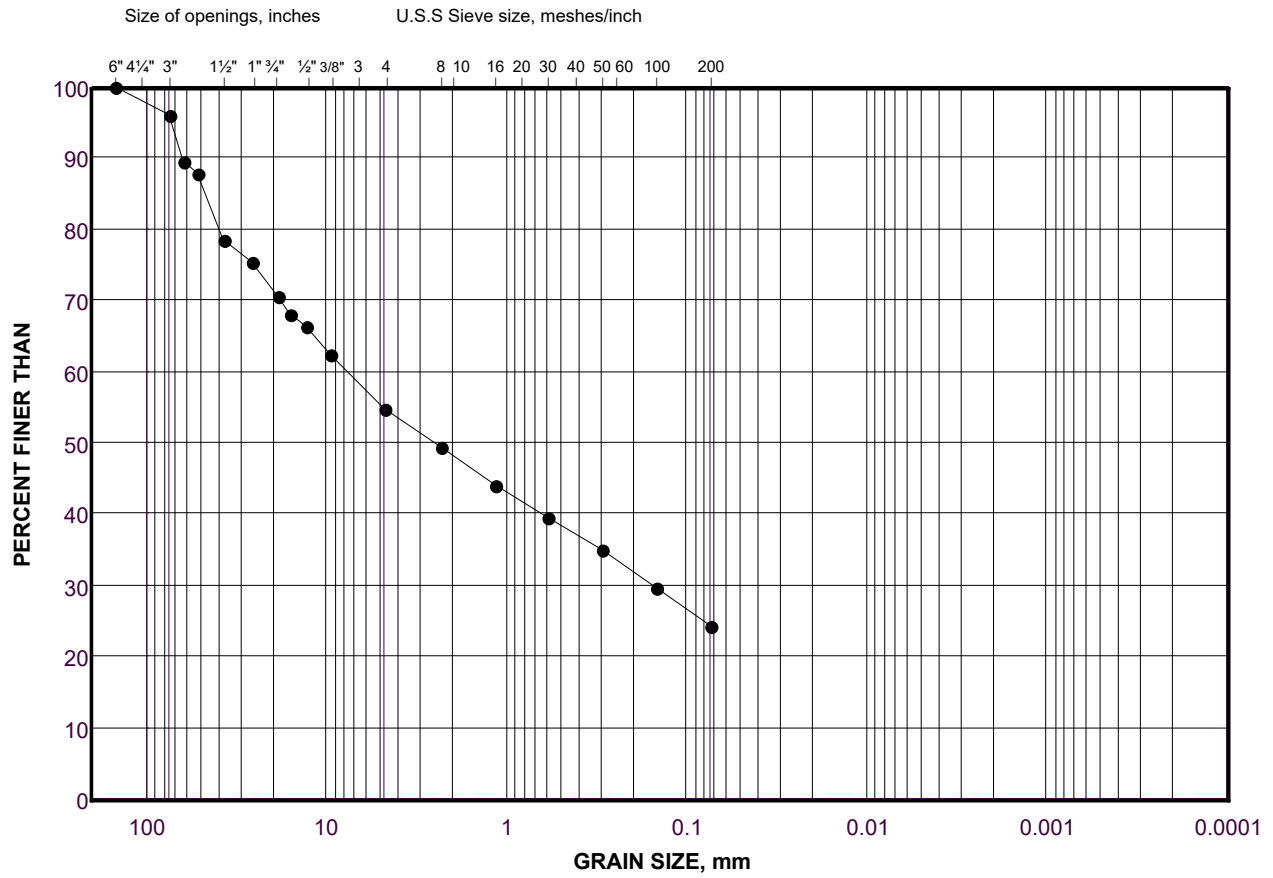
Depth 33
Units Imperial
Testing Date 3/25/22 4:12:32 PM
Tested By Sieve - AM
LabID 22-622

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-03 | 7 | 28.0 - 33.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 13204(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 652.00 | 4.94 | 53.00 | 95.1 |
| 37.5mm | 1120.00 | 3.54 | 37.50 | 91.5 |
| 26.5mm | 1992.00 | 6.60 | 26.50 | 84.9 |
| 19.0mm | 2794.00 | 6.07 | 19.00 | 78.9 |
| 16mm | 3162.00 | 2.79 | 16.00 | 76.1 |
| 13.2mm | 3516.00 | 2.68 | 13.20 | 73.4 |
| 9.5mm | 4258.00 | 5.62 | 9.50 | 67.8 |
| 4.75mm | 5498.00 | 9.39 | 4.75 | 58.4 |
| PAN | 7706.00 | 58.37 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 39.14 | 6.74 | 2.36 | 51.6 |
| 1.18mm | 84.40 | 7.80 | 1.18 | 43.8 |
| 600µm | 124.52 | 6.91 | 0.60 | 36.9 |
| 300µm | 158.45 | 5.84 | 0.30 | 31.1 |
| 150µm | 189.09 | 5.28 | 0.15 | 25.8 |
| 75µm | 218.88 | 5.13 | 0.08 | 20.7 |

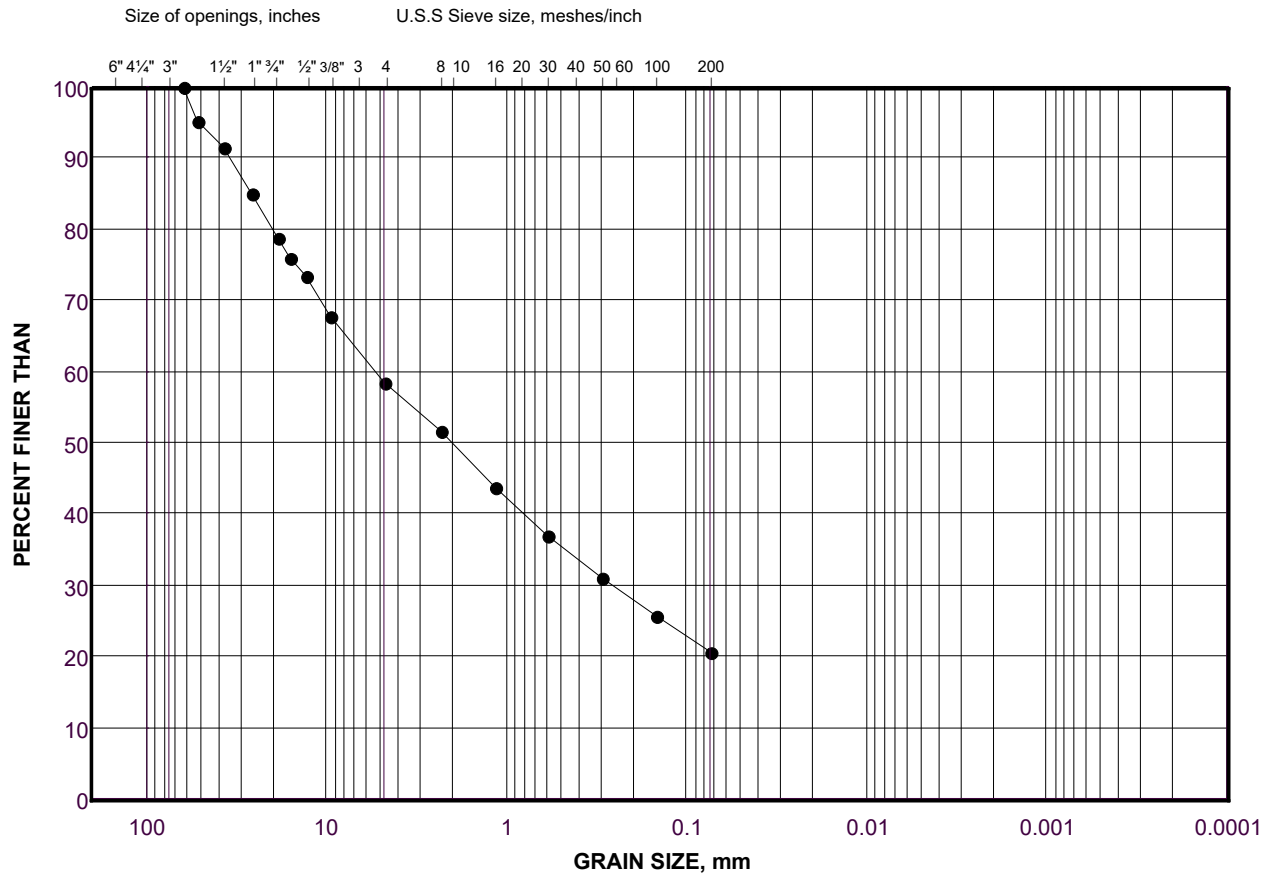
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 38 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | BH 21-03 | Testing Date | 3/25/22 4:15:12 PM |
| Sample Number | 8 | Tested By | Sieve - JB |
| Checked By | _____ | LabID | 22-604 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-03 | 8 | 33.0 - 38.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 14163(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 720.00 | 5.08 | 53.00 | 94.9 |
| 37.5mm | 1654.00 | 6.59 | 37.50 | 88.3 |
| 26.5mm | 2808.00 | 8.15 | 26.50 | 80.2 |
| 19.0mm | 3560.00 | 5.31 | 19.00 | 74.9 |
| 16mm | 3834.00 | 1.93 | 16.00 | 72.9 |
| 13.2mm | 4186.00 | 2.49 | 13.20 | 70.5 |
| 9.5mm | 4906.00 | 5.08 | 9.50 | 65.4 |
| 4.75mm | 6312.00 | 9.93 | 4.75 | 55.4 |
| PAN | 7851.00 | 55.44 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 43.99 | 7.38 | 2.36 | 48.1 |
| 1.18mm | 79.46 | 5.95 | 1.18 | 42.1 |
| 600µm | 110.74 | 5.25 | 0.60 | 36.9 |
| 300µm | 138.81 | 4.71 | 0.30 | 32.1 |
| 150µm | 167.92 | 4.88 | 0.15 | 27.3 |
| 75µm | 196.05 | 4.72 | 0.08 | 22.6 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-03
Sample Number 10
Checked By _____

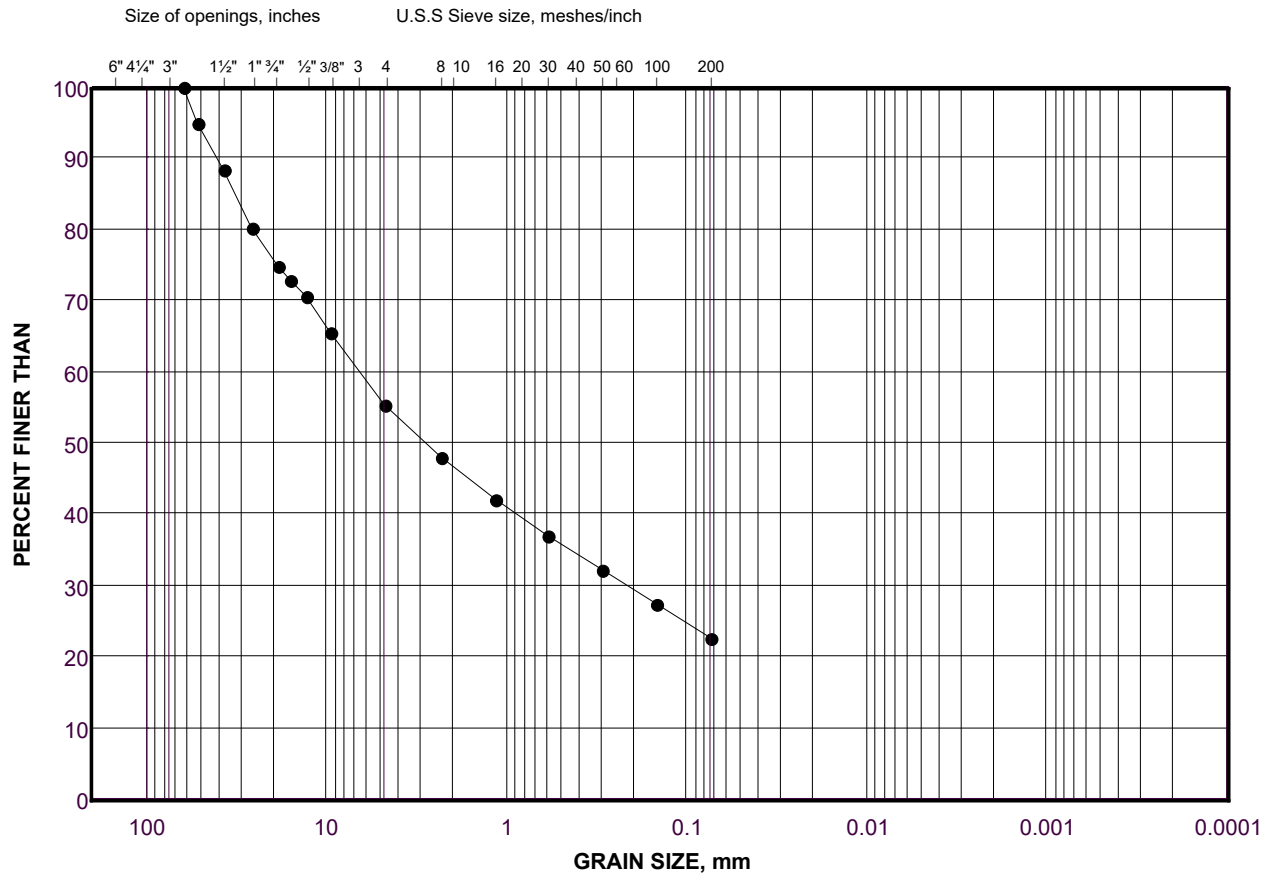
Depth 48
Units Imperial
Testing Date 3/25/22 4:17:17 PM
Tested By Sieve - JB
LabID 22-605

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-03 | 10 | 43.0 - 48.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 14110.8(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1361.30 | 9.65 | 75.00 | 90.4 |
| 63mm | 1361.30 | 0.00 | 63.00 | 90.4 |
| 53mm | 1606.80 | 1.74 | 53.00 | 88.6 |
| 37.5mm | 2653.50 | 7.42 | 37.50 | 81.2 |
| 26.5mm | 3040.20 | 2.74 | 26.50 | 78.5 |
| 19.0mm | 3449.60 | 2.90 | 19.00 | 75.6 |
| 16mm | 3763.90 | 2.23 | 16.00 | 73.3 |
| 13.2mm | 4089.80 | 2.31 | 13.20 | 71.0 |
| 9.5mm | 4693.70 | 4.28 | 9.50 | 66.7 |
| 4.75mm | 5692.00 | 7.07 | 4.75 | 59.7 |
| PAN | 8406.00 | 59.66 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 39.70 | 9.19 | 2.36 | 50.5 |
| 1.18mm | 83.30 | 10.09 | 1.18 | 40.4 |
| 600µm | 119.20 | 8.31 | 0.60 | 32.1 |
| 300µm | 149.10 | 6.92 | 0.30 | 25.2 |
| 150µm | 183.60 | 7.99 | 0.15 | 17.2 |
| 75µm | 209.20 | 5.93 | 0.08 | 11.2 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-03
Sample Number 11
Checked By _____

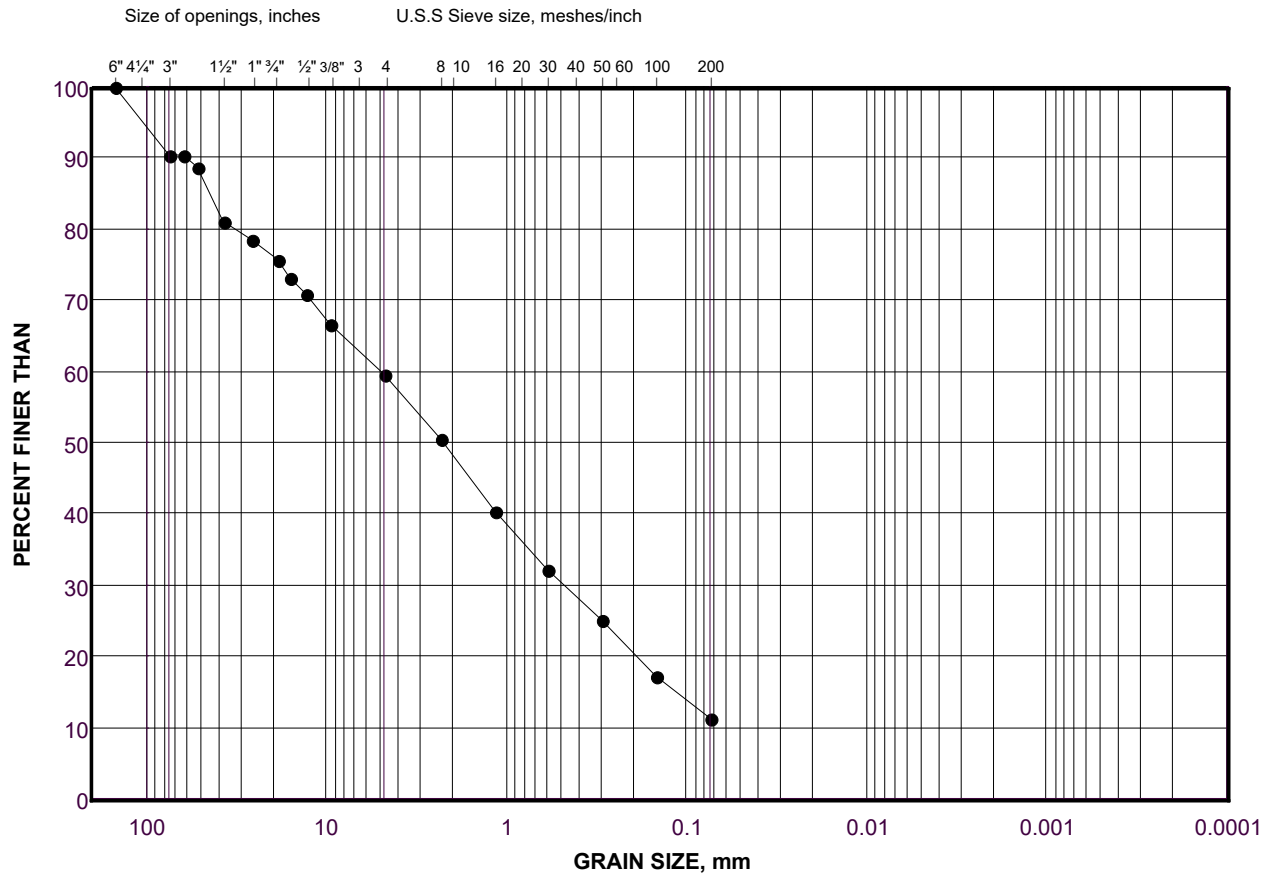
Depth 53
Units Imperial
Testing Date 3/07/22 2:15:44 PM
Tested By Sieve - AM
LabID 22-423

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-03 | 11 | 48.0 - 53.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 15045.3(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 427.80 | 2.84 | 37.50 | 97.2 |
| 26.5mm | 1049.50 | 4.13 | 26.50 | 93.0 |
| 19.0mm | 1644.40 | 3.95 | 19.00 | 89.1 |
| 16mm | 2082.00 | 2.91 | 16.00 | 86.2 |
| 13.2mm | 2482.40 | 2.66 | 13.20 | 83.5 |
| 9.5mm | 3261.00 | 5.18 | 9.50 | 78.3 |
| 4.75mm | 4957.90 | 11.28 | 4.75 | 67.1 |
| PAN | 10087.40 | 67.05 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 32.90 | 8.80 | 2.36 | 58.3 |
| 1.18mm | 62.90 | 8.02 | 1.18 | 50.2 |
| 600µm | 89.00 | 6.98 | 0.60 | 43.3 |
| 300µm | 113.70 | 6.60 | 0.30 | 36.7 |
| 150µm | 136.80 | 6.18 | 0.15 | 30.5 |
| 75µm | 158.70 | 5.85 | 0.08 | 24.6 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-03
Sample Number 12
Checked By _____

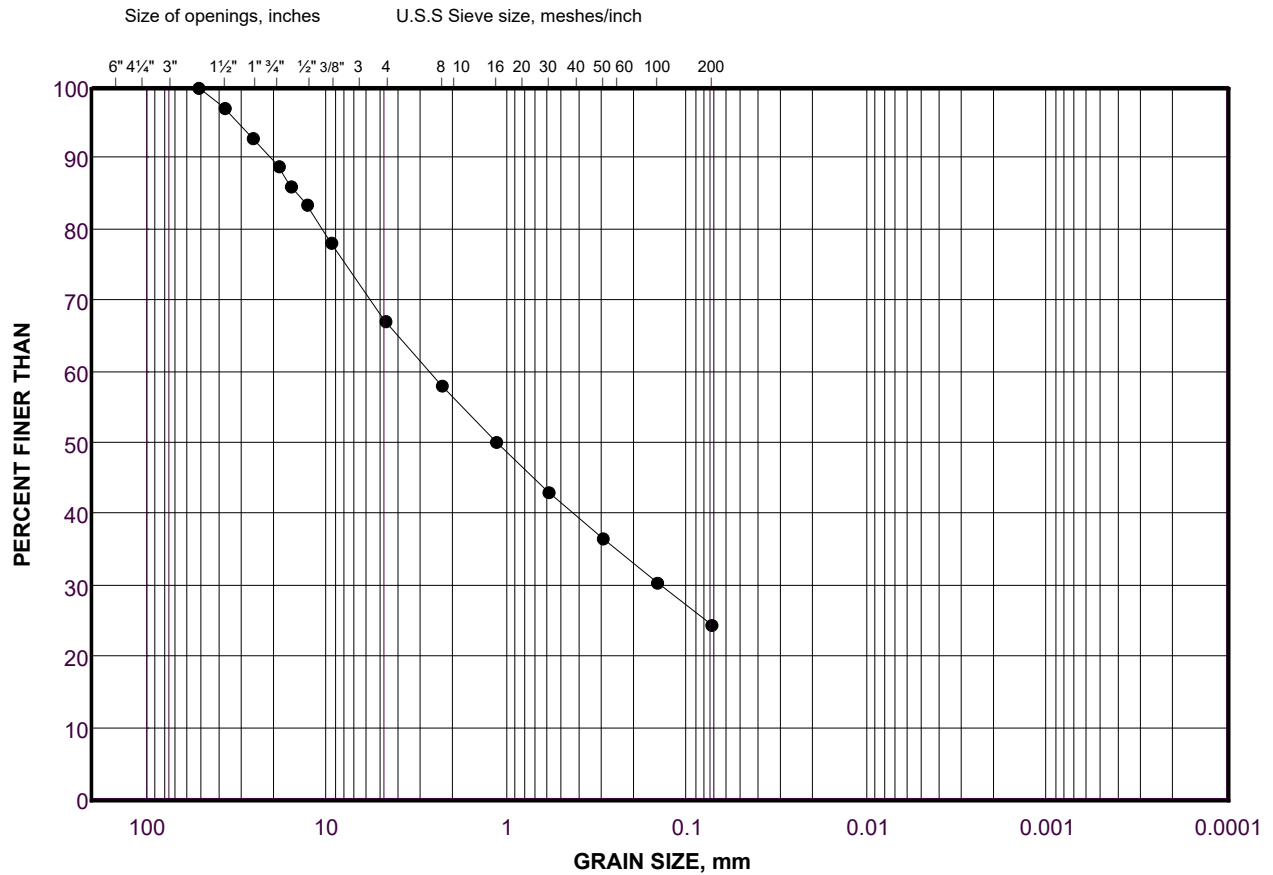
Depth 58
Units Imperial
Testing Date 3/07/22 2:42:57 PM
Tested By Sieve - LB
LabID 22-424

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-03 | 12 | 53.0 - 58.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 17415(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 283.50 | 1.63 | 53.00 | 98.4 |
| 37.5mm | 1659.90 | 7.90 | 37.50 | 90.5 |
| 26.5mm | 2440.10 | 4.48 | 26.50 | 86.0 |
| 19.0mm | 3357.10 | 5.27 | 19.00 | 80.7 |
| 16mm | 3819.60 | 2.66 | 16.00 | 78.1 |
| 13.2mm | 4268.30 | 2.58 | 13.20 | 75.5 |
| 9.5mm | 5198.60 | 5.34 | 9.50 | 70.1 |
| 4.75mm | 6926.40 | 9.92 | 4.75 | 60.2 |
| PAN | 10469.50 | 60.22 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 40.60 | 8.26 | 2.36 | 52.0 |
| 1.18mm | 83.20 | 8.66 | 1.18 | 43.3 |
| 600µm | 120.10 | 7.50 | 0.60 | 35.8 |
| 300µm | 150.60 | 6.20 | 0.30 | 29.6 |
| 150µm | 174.80 | 4.92 | 0.15 | 24.7 |
| 75µm | 197.10 | 4.54 | 0.08 | 20.1 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-03
Sample Number 13
Checked By _____

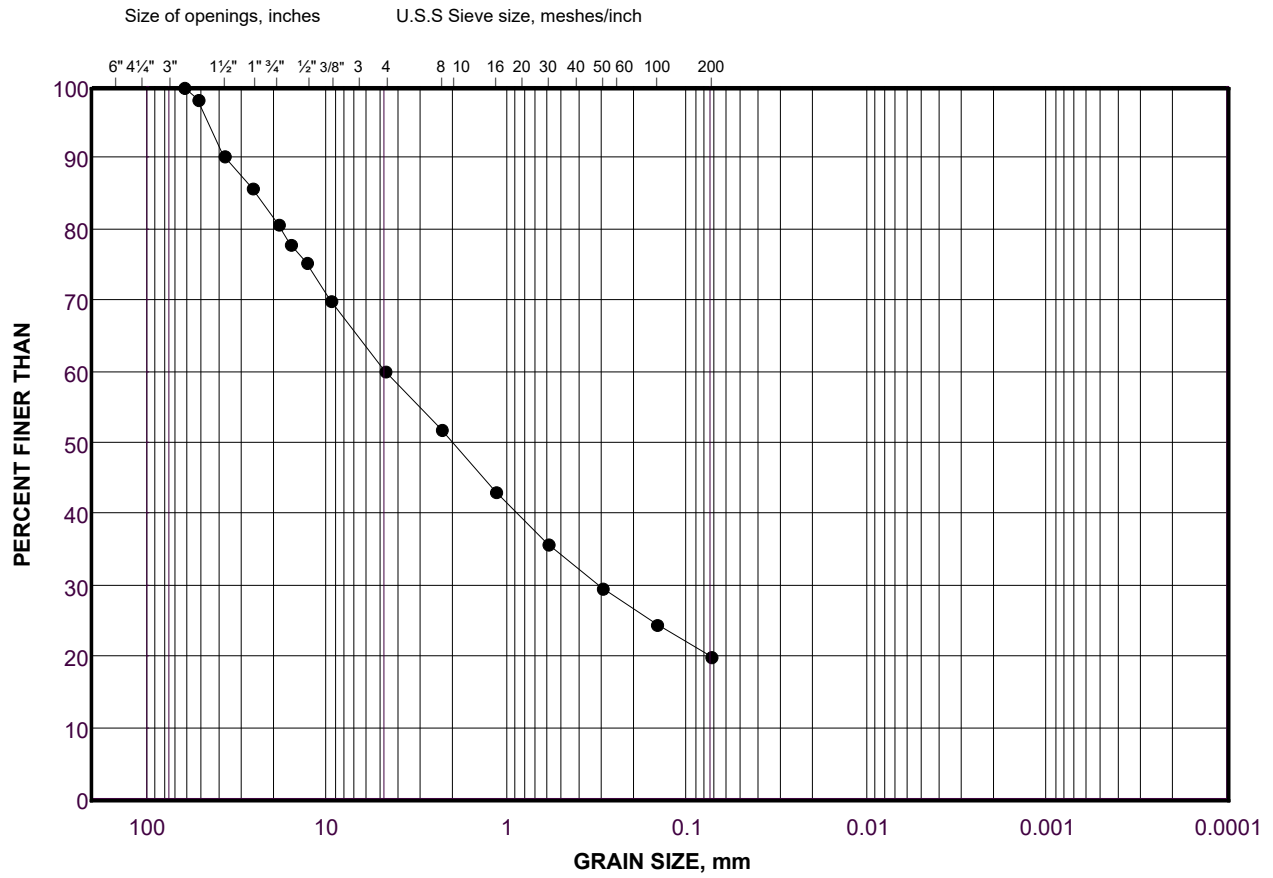
Depth 63
Units Imperial
Testing Date 3/07/22 2:49:31 PM
Tested By Sieve - TP
LabID 22-425

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-03 | 13 | 58.0 - 63.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 16895.7(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 705.70 | 4.18 | 63.00 | 95.8 |
| 53mm | 1527.00 | 4.86 | 53.00 | 91.0 |
| 37.5mm | 2491.60 | 5.71 | 37.50 | 85.3 |
| 26.5mm | 3306.10 | 4.82 | 26.50 | 80.4 |
| 19.0mm | 4438.00 | 6.70 | 19.00 | 73.7 |
| 16mm | 4850.70 | 2.44 | 16.00 | 71.3 |
| 13.2mm | 5448.30 | 3.54 | 13.20 | 67.8 |
| 9.5mm | 6551.10 | 6.53 | 9.50 | 61.2 |
| 4.75mm | 8328.80 | 10.52 | 4.75 | 50.7 |
| PAN | 8542.60 | 50.70 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 40.00 | 7.44 | 2.36 | 43.3 |
| 1.18mm | 86.90 | 8.72 | 1.18 | 34.5 |
| 600µm | 129.60 | 7.94 | 0.60 | 26.6 |
| 300µm | 162.90 | 6.19 | 0.30 | 20.4 |
| 150µm | 185.50 | 4.20 | 0.15 | 16.2 |
| 75µm | 202.50 | 3.16 | 0.08 | 13.1 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-03
Sample Number 14
Checked By _____

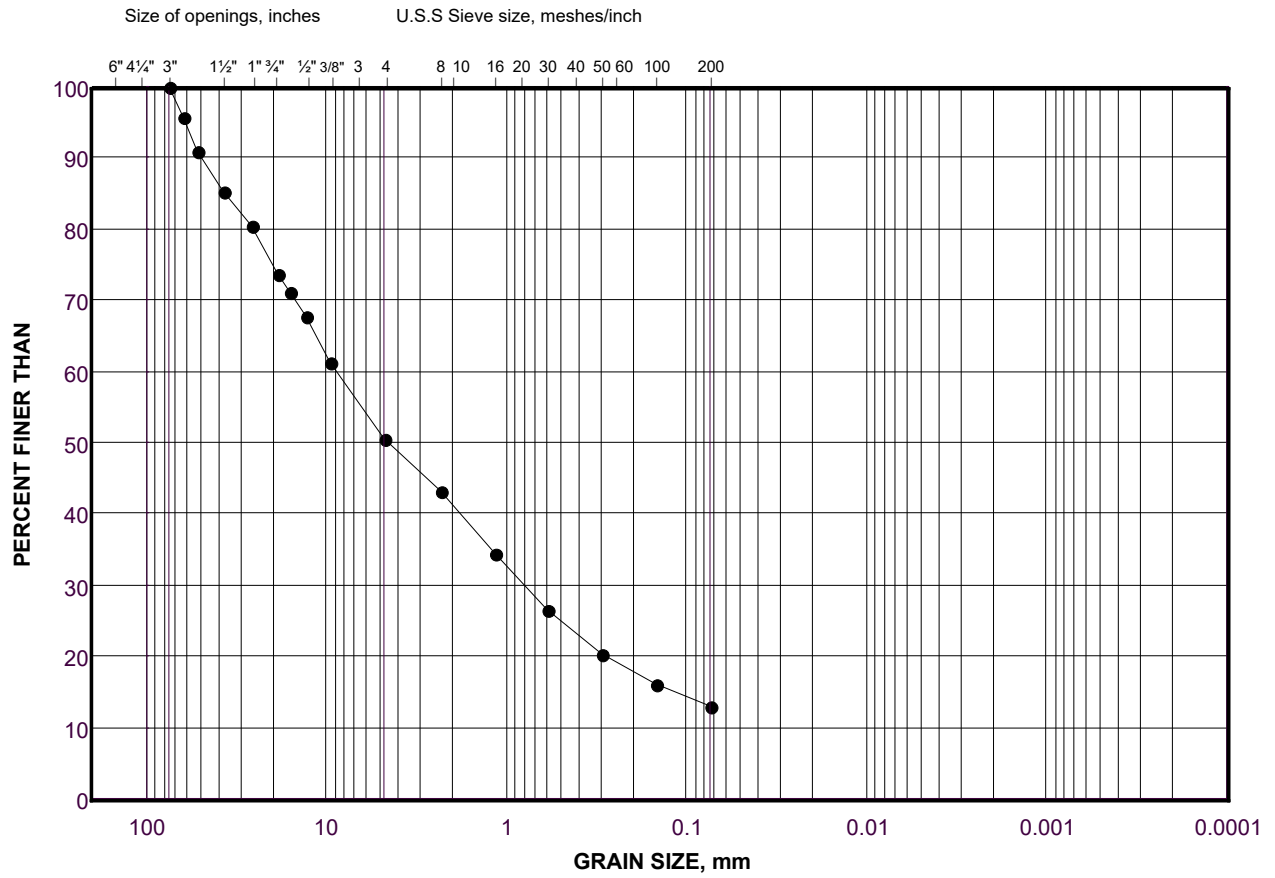
Depth 68
Units Imperial
Testing Date 3/07/22 2:59:36 PM
Tested By Sieve -
LabID 22-426

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-03 | 14 | 63.0 - 68.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 17898(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 268.80 | 1.50 | 37.50 | 98.5 |
| 26.5mm | 1295.10 | 5.73 | 26.50 | 92.8 |
| 19.0mm | 2030.00 | 4.11 | 19.00 | 88.7 |
| 16mm | 2466.40 | 2.44 | 16.00 | 86.2 |
| 13.2mm | 2923.70 | 2.56 | 13.20 | 83.7 |
| 9.5mm | 4006.40 | 6.05 | 9.50 | 77.6 |
| 4.75mm | 5886.90 | 10.51 | 4.75 | 67.1 |
| PAN | 11965.50 | 67.10 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 36.60 | 9.22 | 2.36 | 57.9 |
| 1.18mm | 74.50 | 9.55 | 1.18 | 48.3 |
| 600µm | 111.60 | 9.34 | 0.60 | 39.0 |
| 300µm | 144.40 | 8.26 | 0.30 | 30.7 |
| 150µm | 169.90 | 6.42 | 0.15 | 24.3 |
| 75µm | 192.30 | 5.64 | 0.08 | 18.7 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-03
Sample Number 16
Checked By _____

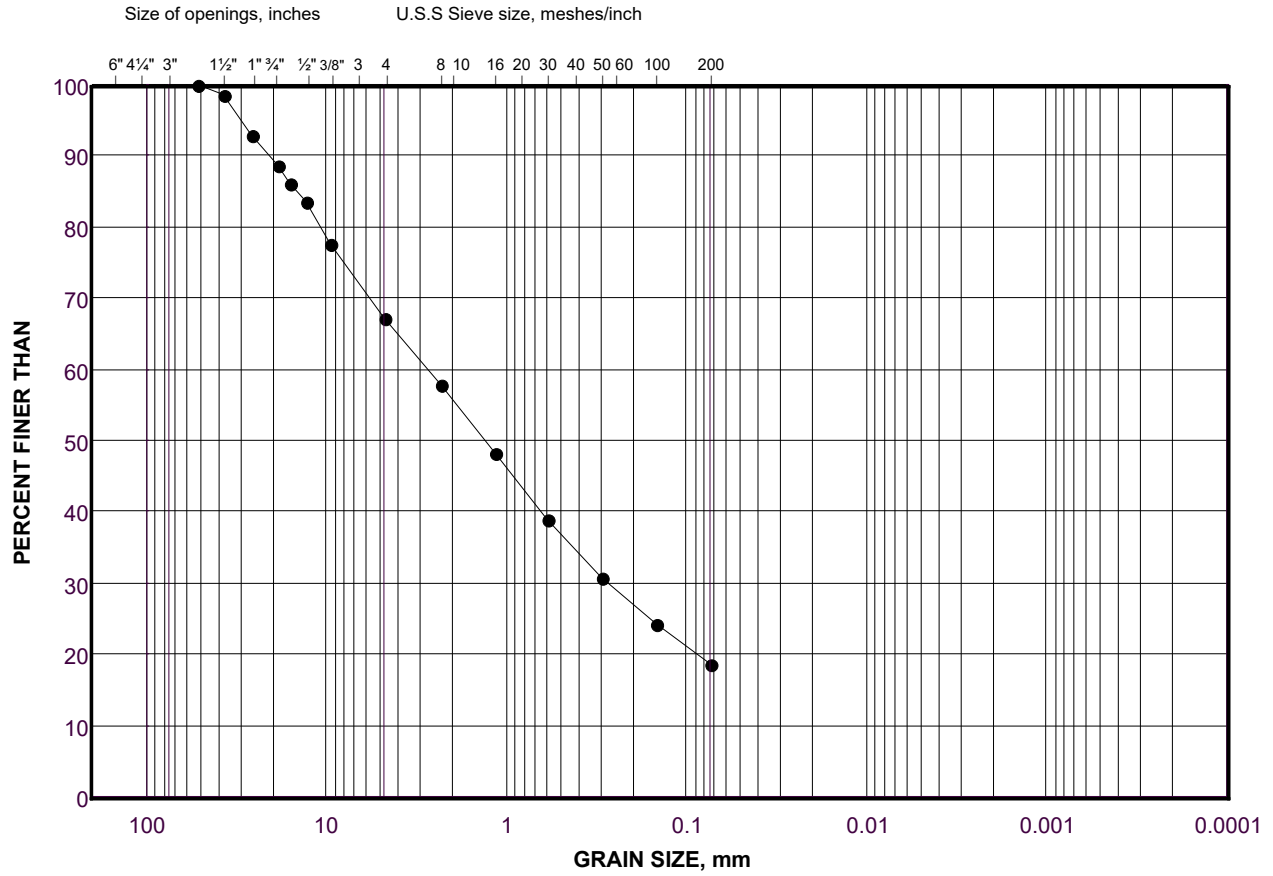
Depth 78
Units Imperial
Testing Date 3/07/22 3:15:53 PM
Tested By Sieve - LB
LabID 22-427

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-03 | 16 | 73.0 - 78.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 12826(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 1203.20 | 9.38 | 37.50 | 90.6 |
| 26.5mm | 2696.60 | 11.64 | 26.50 | 79.0 |
| 19.0mm | 3512.10 | 6.36 | 19.00 | 72.6 |
| 16mm | 4115.30 | 4.70 | 16.00 | 67.9 |
| 13.2mm | 4516.60 | 3.13 | 13.20 | 64.8 |
| 9.5mm | 5246.30 | 5.69 | 9.50 | 59.1 |
| 4.75mm | 6462.70 | 9.48 | 4.75 | 49.6 |
| PAN | 6360.40 | 49.62 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 38.70 | 7.02 | 2.36 | 42.6 |
| 1.18mm | 74.80 | 6.55 | 1.18 | 36.1 |
| 600µm | 104.70 | 5.42 | 0.60 | 30.6 |
| 300µm | 127.20 | 4.08 | 0.30 | 26.6 |
| 150µm | 147.50 | 3.68 | 0.15 | 22.9 |
| 75µm | 169.70 | 4.03 | 0.08 | 18.8 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-03
Sample Number 17
Checked By _____

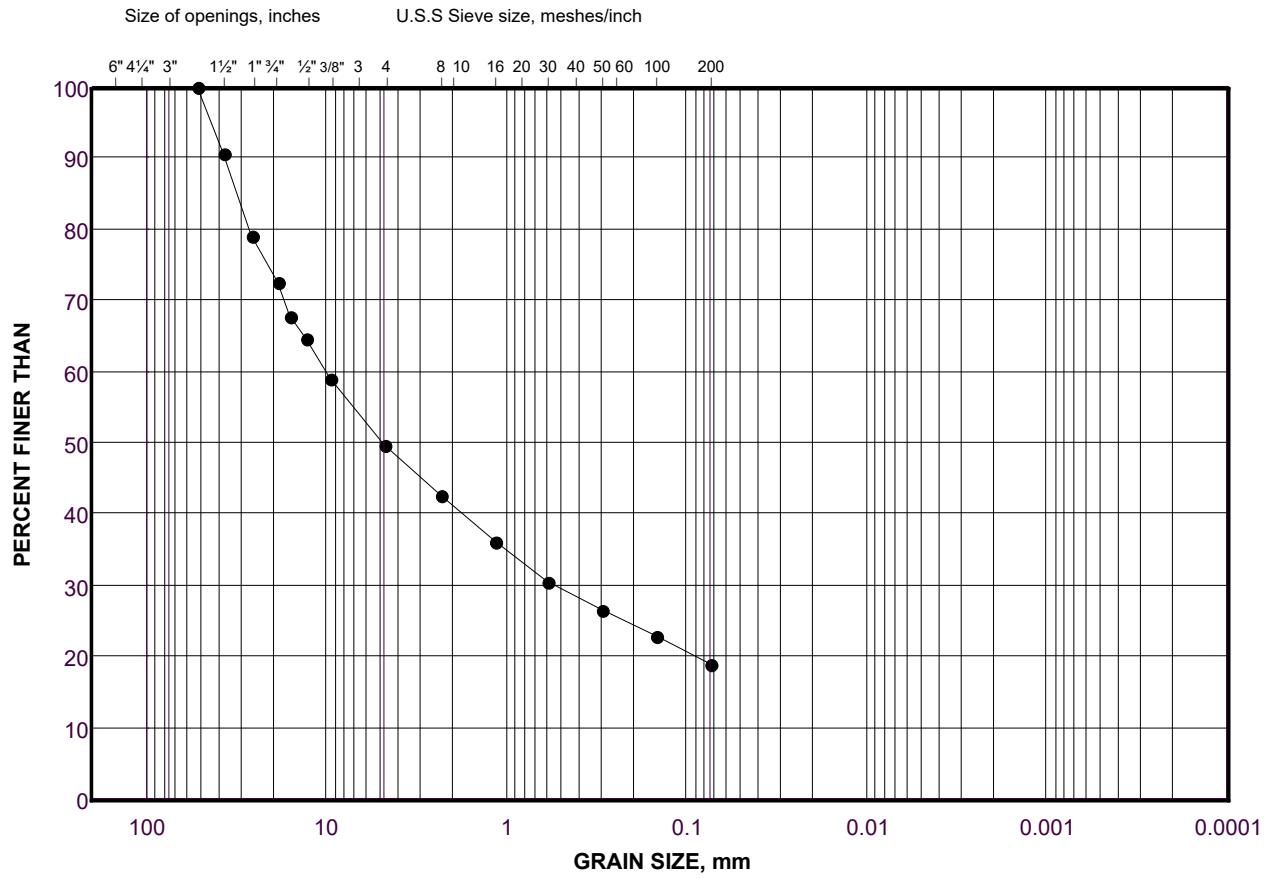
Depth 83
Units Imperial
Testing Date 3/25/22 4:20:06 PM
Tested By Sieve - JT
LabID 22-219

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-03 | 17 | 78.0 - 83.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 18560.9(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 769.80 | 4.15 | 63.00 | 95.9 |
| 53mm | 1566.10 | 4.29 | 53.00 | 91.6 |
| 37.5mm | 2697.30 | 6.09 | 37.50 | 85.5 |
| 26.5mm | 4343.10 | 8.87 | 26.50 | 76.6 |
| 19.0mm | 5347.10 | 5.41 | 19.00 | 71.2 |
| 16mm | 6232.00 | 4.77 | 16.00 | 66.4 |
| 13.2mm | 6900.50 | 3.60 | 13.20 | 62.8 |
| 9.5mm | 8188.20 | 6.94 | 9.50 | 55.9 |
| 4.75mm | 10207.40 | 10.88 | 4.75 | 45.0 |
| PAN | 8340.00 | 45.00 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 46.40 | 7.26 | 2.36 | 37.7 |
| 1.18mm | 101.60 | 8.63 | 1.18 | 29.1 |
| 600µm | 145.40 | 6.85 | 0.60 | 22.3 |
| 300µm | 177.10 | 4.96 | 0.30 | 17.3 |
| 150µm | 198.50 | 3.35 | 0.15 | 14.0 |
| 75µm | 216.90 | 2.88 | 0.08 | 11.1 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-03
Sample Number 18
Checked By _____

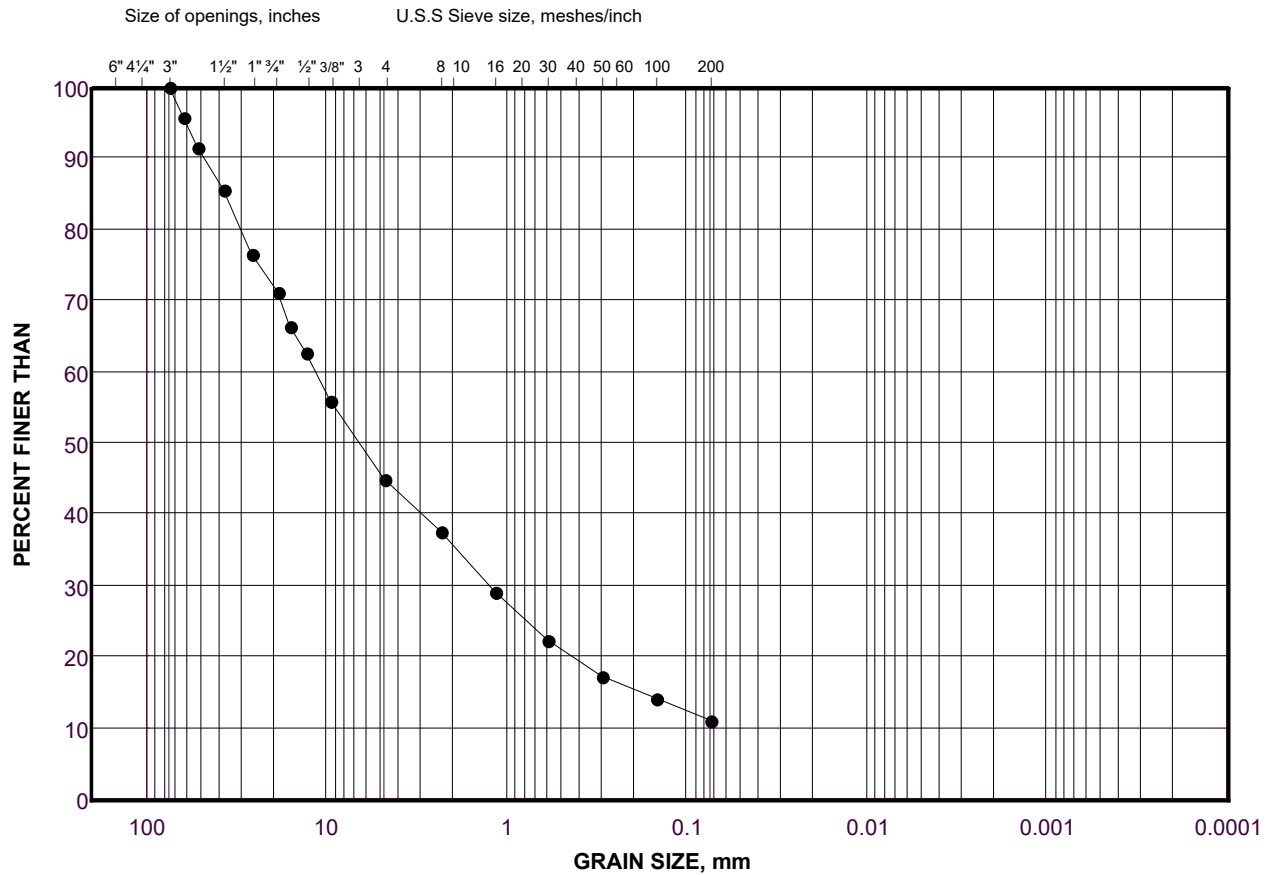
Depth 88
Units Imperial
Testing Date 3/25/22 4:22:15 PM
Tested By Sieve - AM
LabID 22-623

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |
| SIZE | | | | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-03 | 18 | 83.0 - 88.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 18694.6(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 2171.60 | 11.62 | 75.00 | 88.4 |
| 63mm | 3184.20 | 5.42 | 63.00 | 83.0 |
| 53mm | 4364.00 | 6.31 | 53.00 | 76.7 |
| 37.5mm | 5407.50 | 5.58 | 37.50 | 71.1 |
| 26.5mm | 6593.10 | 6.34 | 26.50 | 64.7 |
| 19.0mm | 7577.50 | 5.27 | 19.00 | 59.5 |
| 16mm | 8146.30 | 3.04 | 16.00 | 56.4 |
| 13.2mm | 8688.20 | 2.90 | 13.20 | 53.5 |
| 9.5mm | 9620.30 | 4.99 | 9.50 | 48.5 |
| 4.75mm | 10945.20 | 7.09 | 4.75 | 41.4 |
| PAN | 7726.30 | 41.44 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 31.70 | 5.03 | 2.36 | 36.4 |
| 1.18mm | 68.20 | 5.79 | 1.18 | 30.6 |
| 600µm | 119.20 | 8.09 | 0.60 | 22.5 |
| 300µm | 178.50 | 9.41 | 0.30 | 13.1 |
| 150µm | 208.20 | 4.71 | 0.15 | 8.4 |
| 75µm | 223.80 | 2.48 | 0.08 | 5.9 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-03
Sample Number 19
Checked By _____

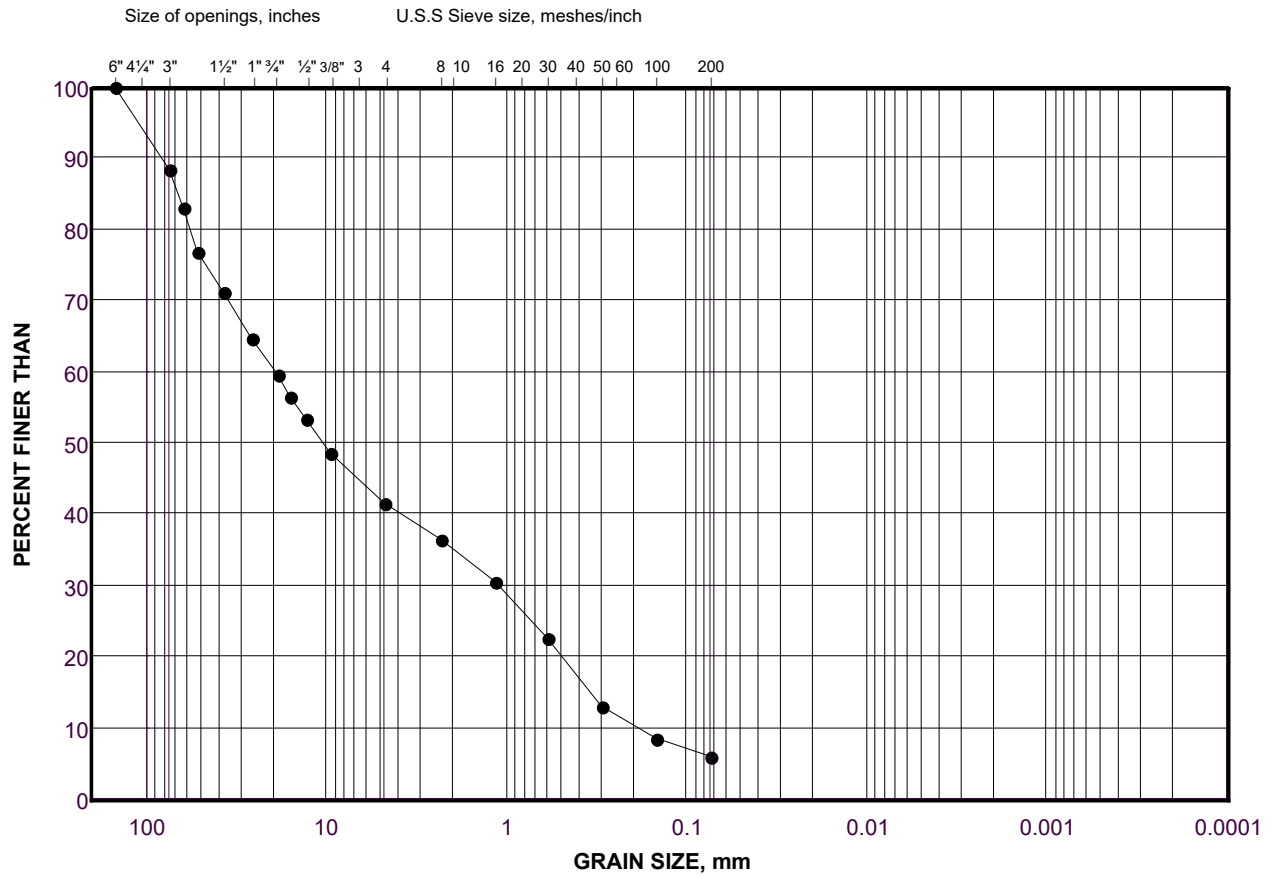
Depth 93
Units Metric
Testing Date 3/25/22 4:25:31 PM
Tested By Sieve - AM
LabID 22-194

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(m) |
|--------|----------|--------|-------------|
| ● | BH 21-03 | 19 | 88.0 - 93.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 19612.3(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 1848.20 | 9.42 | 63.00 | 90.6 |
| 53mm | 2507.60 | 3.36 | 53.00 | 87.2 |
| 37.5mm | 4030.70 | 7.77 | 37.50 | 79.5 |
| 26.5mm | 5418.20 | 7.07 | 26.50 | 72.4 |
| 19.0mm | 7439.20 | 10.30 | 19.00 | 62.1 |
| 16mm | 8232.20 | 4.04 | 16.00 | 58.0 |
| 13.2mm | 9173.70 | 4.80 | 13.20 | 53.2 |
| 9.5mm | 10636.20 | 7.46 | 9.50 | 45.8 |
| 4.75mm | 12727.70 | 10.66 | 4.75 | 35.1 |
| PAN | 6884.60 | 35.12 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 50.70 | 6.96 | 2.36 | 28.2 |
| 1.18mm | 97.50 | 6.42 | 1.18 | 21.7 |
| 600µm | 142.70 | 6.20 | 0.60 | 15.5 |
| 300µm | 181.20 | 5.28 | 0.30 | 10.3 |
| 150µm | 208.70 | 3.77 | 0.15 | 6.5 |
| 75µm | 222.70 | 1.92 | 0.08 | 4.6 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-03
Sample Number 20
Checked By _____

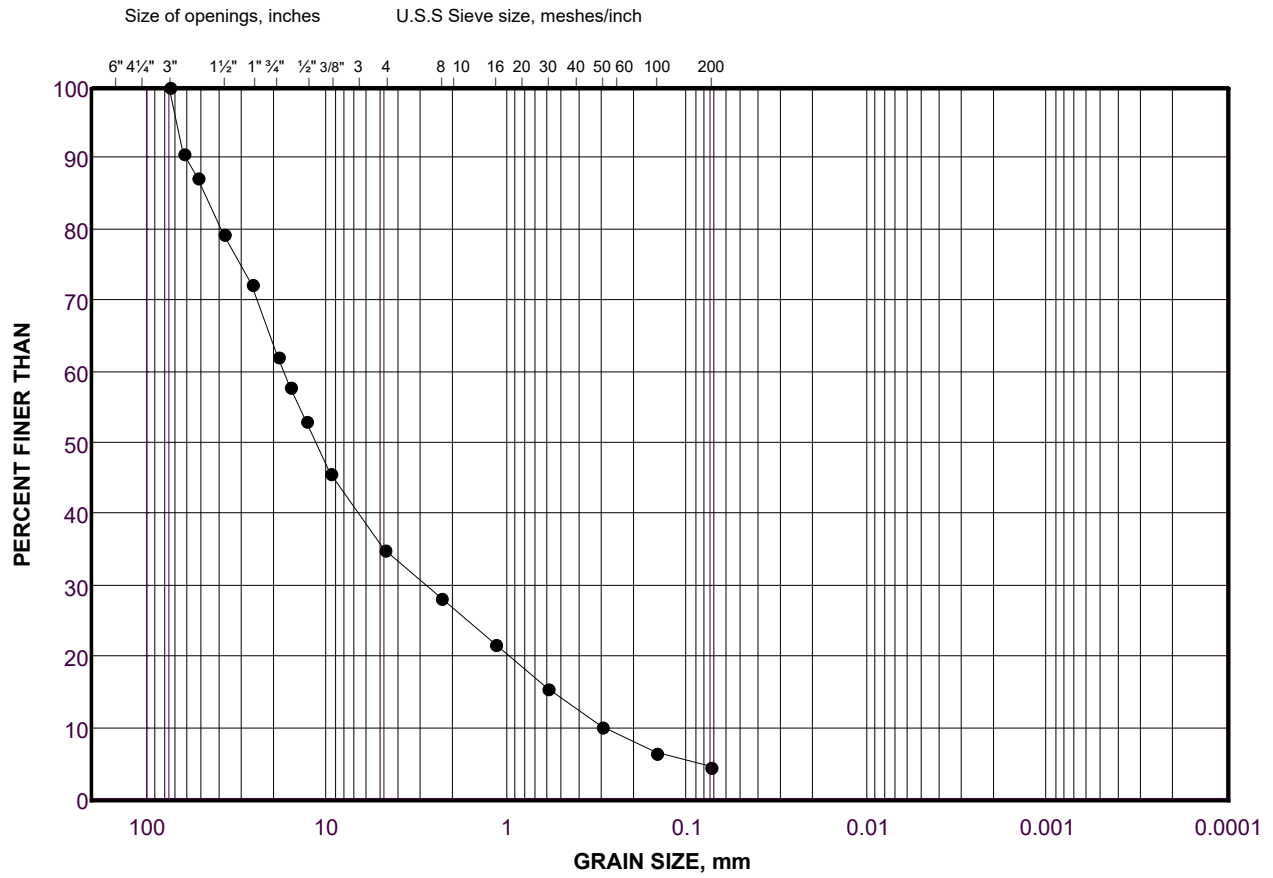
Depth 93
Units Imperial
Testing Date 3/25/22 4:27:15 PM
Tested By Sieve - JT
LabID 22-218

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-03 | 20 | 98.0 - 93.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 19968.4(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1232.40 | 6.17 | 75.00 | 93.8 |
| 63mm | 1232.40 | 0.00 | 63.00 | 93.8 |
| 53mm | 1593.10 | 1.81 | 53.00 | 92.0 |
| 37.5mm | 2436.50 | 4.22 | 37.50 | 87.8 |
| 26.5mm | 4252.40 | 9.09 | 26.50 | 78.7 |
| 19.0mm | 5650.60 | 7.00 | 19.00 | 71.7 |
| 16mm | 6252.40 | 3.01 | 16.00 | 68.7 |
| 13.2mm | 6806.30 | 2.77 | 13.20 | 65.9 |
| 9.5mm | 7907.90 | 5.52 | 9.50 | 60.4 |
| 4.75mm | 9719.90 | 9.07 | 4.75 | 51.3 |
| PAN | 10212.70 | 51.34 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 36.20 | 6.02 | 2.36 | 45.3 |
| 1.18mm | 72.00 | 5.96 | 1.18 | 39.4 |
| 600µm | 109.00 | 6.16 | 0.60 | 33.2 |
| 300µm | 136.80 | 4.62 | 0.30 | 28.6 |
| 150µm | 167.30 | 5.07 | 0.15 | 23.5 |
| 75µm | 222.80 | 9.23 | 0.08 | 14.3 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-03
Sample Number 21
Checked By _____

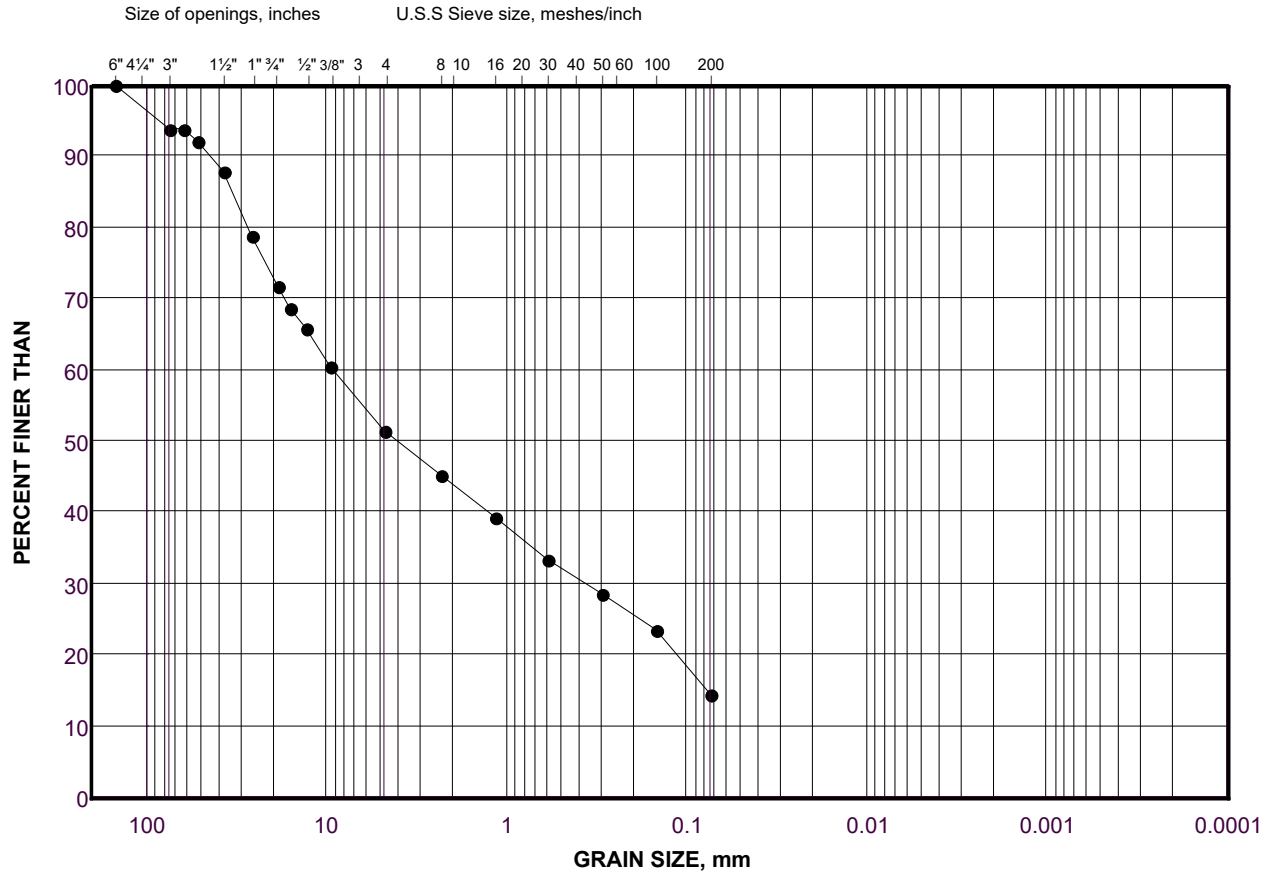
Depth 103
Units Imperial
Testing Date 3/25/22 4:29:55 PM
Tested By Sieve - AM
LabID 22-209

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|--------------|
| ● | BH 21-03 | 21 | 98.0 - 103.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 12246.5(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 0.00 | 0.00 | 37.50 | 100.0 |
| 26.5mm | 0.00 | 0.00 | 26.50 | 100.0 |
| 19.0mm | 66.30 | 0.54 | 19.00 | 99.5 |
| 16mm | 98.00 | 0.26 | 16.00 | 99.2 |
| 13.2mm | 119.80 | 0.18 | 13.20 | 99.0 |
| 9.5mm | 201.00 | 0.66 | 9.50 | 98.4 |
| 4.75mm | 274.00 | 0.60 | 4.75 | 97.8 |
| PAN | 11972.50 | 97.76 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 0.90 | 0.34 | 2.36 | 97.4 |
| 1.18mm | 2.10 | 0.45 | 1.18 | 97.0 |
| 600µm | 3.70 | 0.60 | 0.60 | 96.4 |
| 300µm | 5.00 | 0.48 | 0.30 | 95.9 |
| 150µm | 42.90 | 14.12 | 0.15 | 81.8 |
| 75µm | 182.40 | 51.97 | 0.08 | 29.8 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-03
Sample Number 22A
Checked By _____

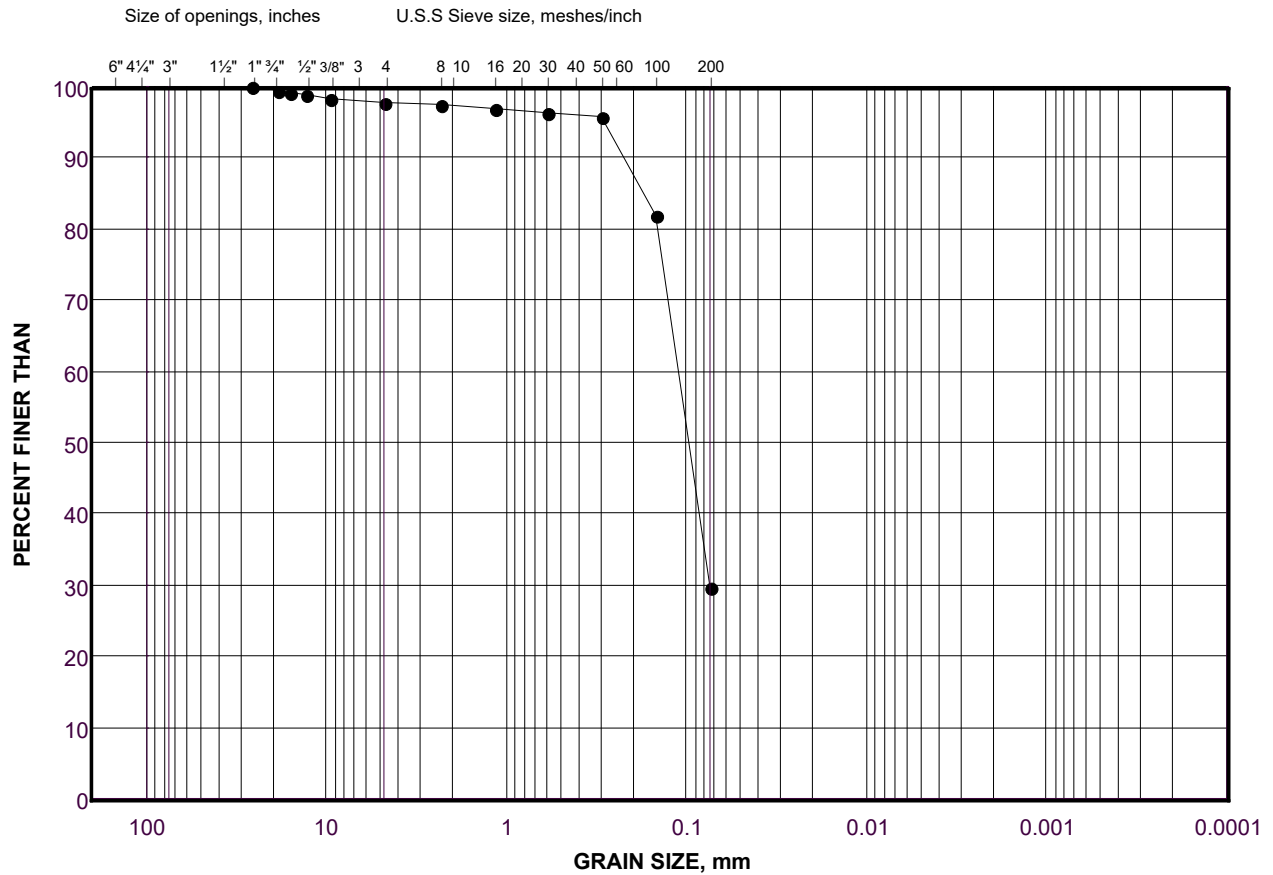
Depth 107
Units Metric
Testing Date 3/25/22 4:38:02 PM
Tested By Sieve - IC
LabID 22-552

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|--------|-------------|------|-----------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(m) |
|--------|----------|--------|---------------|
| • | BH 21-03 | 22A | 103.0 - 107.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 10807.7(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1034.80 | 9.57 | 75.00 | 90.4 |
| 63mm | 1034.80 | 0.00 | 63.00 | 90.4 |
| 53mm | 1345.40 | 2.87 | 53.00 | 87.6 |
| 37.5mm | 2509.80 | 10.77 | 37.50 | 76.8 |
| 26.5mm | 3186.50 | 6.26 | 26.50 | 70.5 |
| 19.0mm | 3577.40 | 3.62 | 19.00 | 66.9 |
| 16mm | 3850.40 | 2.53 | 16.00 | 64.4 |
| 13.2mm | 4169.90 | 2.96 | 13.20 | 61.4 |
| 9.5mm | 4689.40 | 4.81 | 9.50 | 56.6 |
| 4.75mm | 5609.10 | 8.51 | 4.75 | 48.1 |
| PAN | 5177.90 | 48.10 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 33.90 | 6.01 | 2.36 | 42.1 |
| 1.18mm | 73.70 | 7.06 | 1.18 | 35.0 |
| 600µm | 110.30 | 6.49 | 0.60 | 28.5 |
| 300µm | 135.90 | 4.54 | 0.30 | 24.0 |
| 150µm | 154.30 | 3.26 | 0.15 | 20.7 |
| 75µm | 173.30 | 3.37 | 0.08 | 17.4 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-04
Sample Number 14
Checked By _____

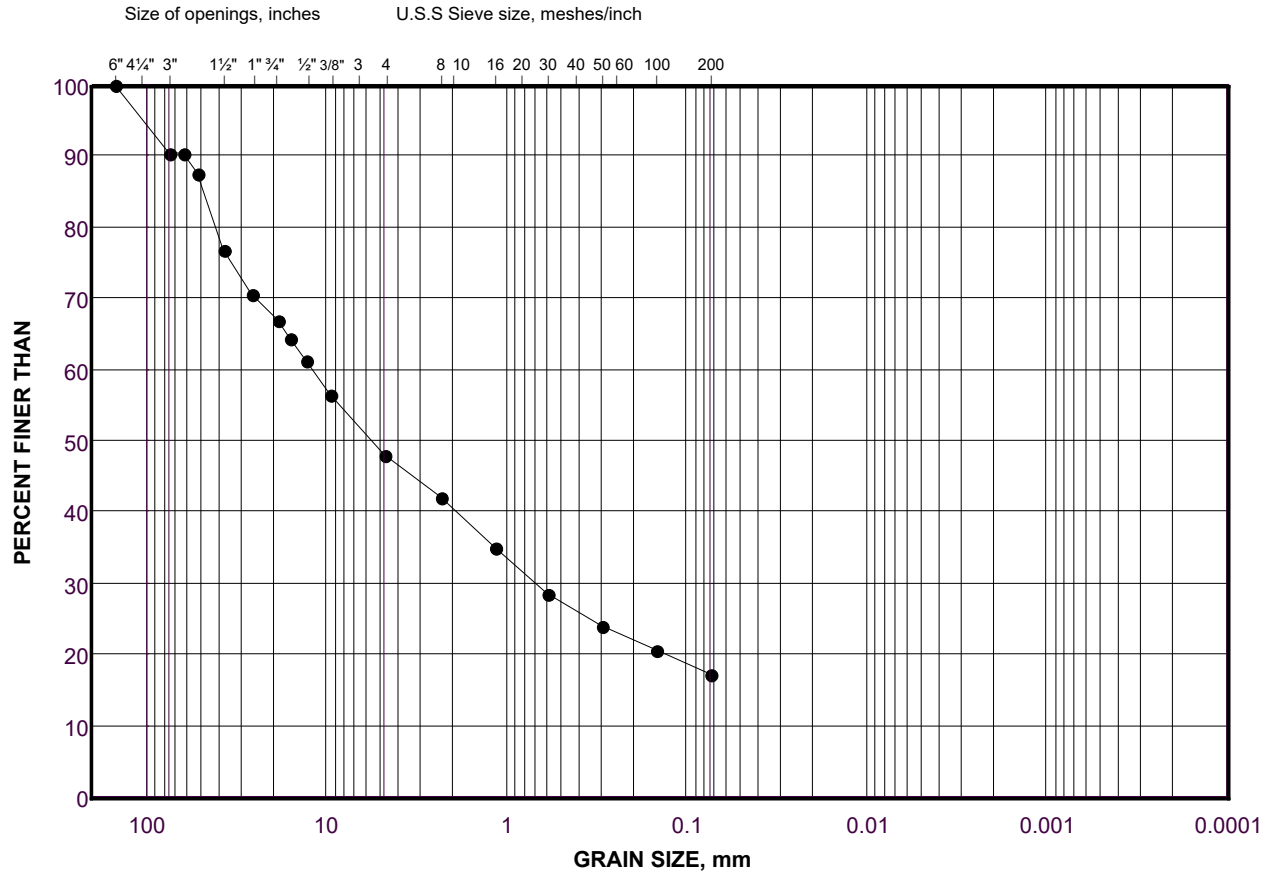
Depth 68
Units Imperial
Testing Date 3/24/22 11:51:13
Tested By AM Sieve - LB
LabID 22-612

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-04 | 14 | 63.0 - 68.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 04-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 2292(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 0.00 | 0.00 | 37.50 | 100.0 |
| 26.5mm | 186.00 | 8.12 | 26.50 | 91.9 |
| 19.0mm | 360.00 | 7.59 | 19.00 | 84.3 |
| 16mm | 398.00 | 1.66 | 16.00 | 82.6 |
| 13.2mm | 410.00 | 0.52 | 13.20 | 82.1 |
| 9.5mm | 450.00 | 1.75 | 9.50 | 80.4 |
| 4.75mm | 542.00 | 4.01 | 4.75 | 76.4 |
| PAN | 1750.00 | 76.35 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 14.16 | 3.22 | 2.36 | 73.1 |
| 1.18mm | 31.10 | 3.85 | 1.18 | 69.3 |
| 600µm | 51.25 | 4.58 | 0.60 | 64.7 |
| 300µm | 76.60 | 5.76 | 0.30 | 58.9 |
| 150µm | 111.94 | 8.03 | 0.15 | 50.9 |
| 75µm | 157.76 | 10.41 | 0.08 | 40.5 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-04
Sample Number 1B
Checked By _____

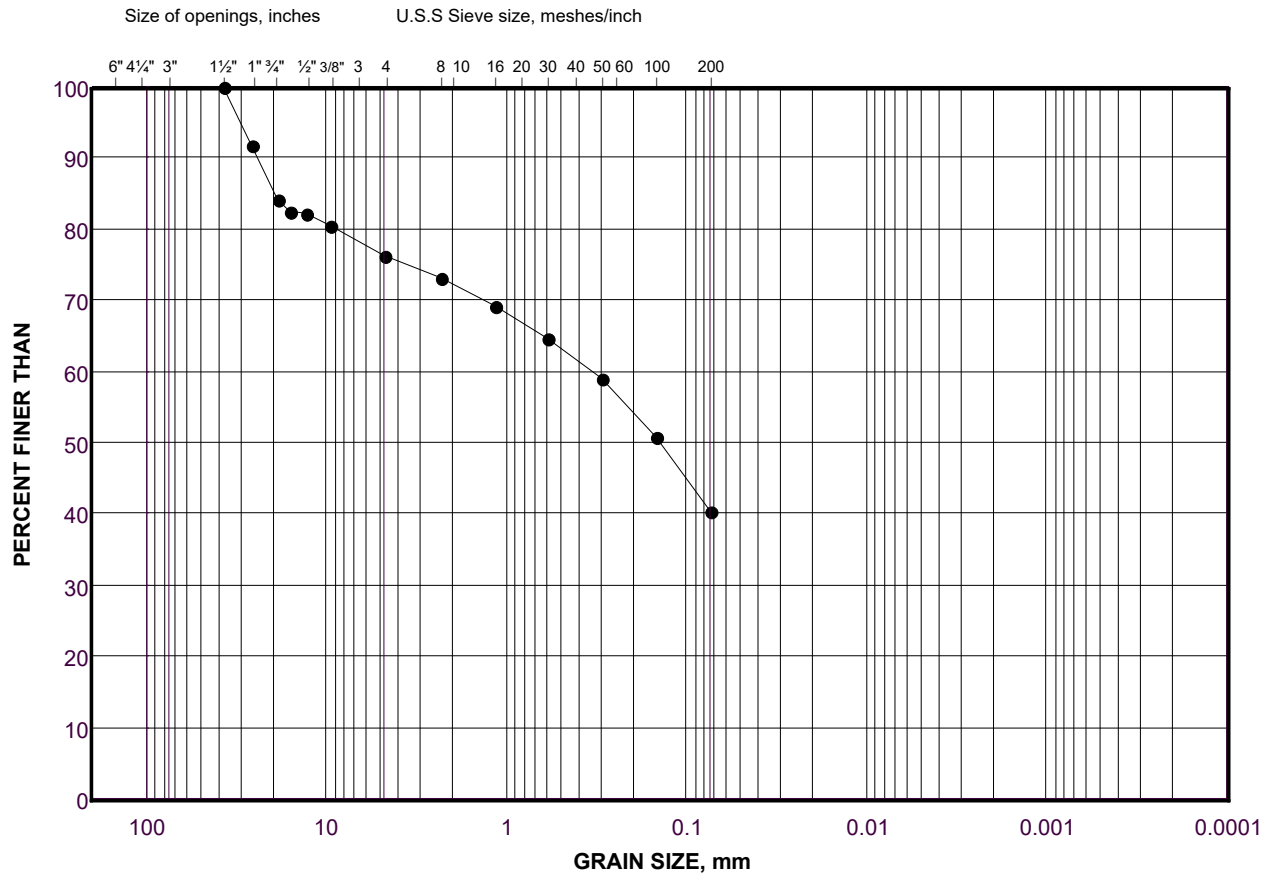
Depth 3
Units Imperial
Testing Date 3/28/22 12:47:22 PM
Tested By Sieve - JB
LabID 22-606

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|----------------|-------------|------|-----------|--------|------|---------------------|
| COBBLE SIZE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|------------|
| • | BH 21-04 | 1B | 0.66 - 3.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 13362(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 546.00 | 4.09 | 37.50 | 95.9 |
| 26.5mm | 1192.00 | 4.83 | 26.50 | 91.1 |
| 19.0mm | 1866.00 | 5.04 | 19.00 | 86.0 |
| 16mm | 2110.00 | 1.83 | 16.00 | 84.2 |
| 13.2mm | 2392.00 | 2.11 | 13.20 | 82.1 |
| 9.5mm | 2454.00 | 0.46 | 9.50 | 81.6 |
| 4.75mm | 3908.00 | 10.88 | 4.75 | 70.8 |
| PAN | 9454.00 | 70.76 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 27.11 | 5.45 | 2.36 | 65.3 |
| 1.18mm | 58.10 | 6.23 | 1.18 | 59.1 |
| 600µm | 91.21 | 6.66 | 0.60 | 52.4 |
| 300µm | 124.87 | 6.77 | 0.30 | 45.7 |
| 150µm | 160.40 | 7.15 | 0.15 | 38.5 |
| 75µm | 198.66 | 7.69 | 0.08 | 30.8 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-04
Sample Number 2
Checked By _____

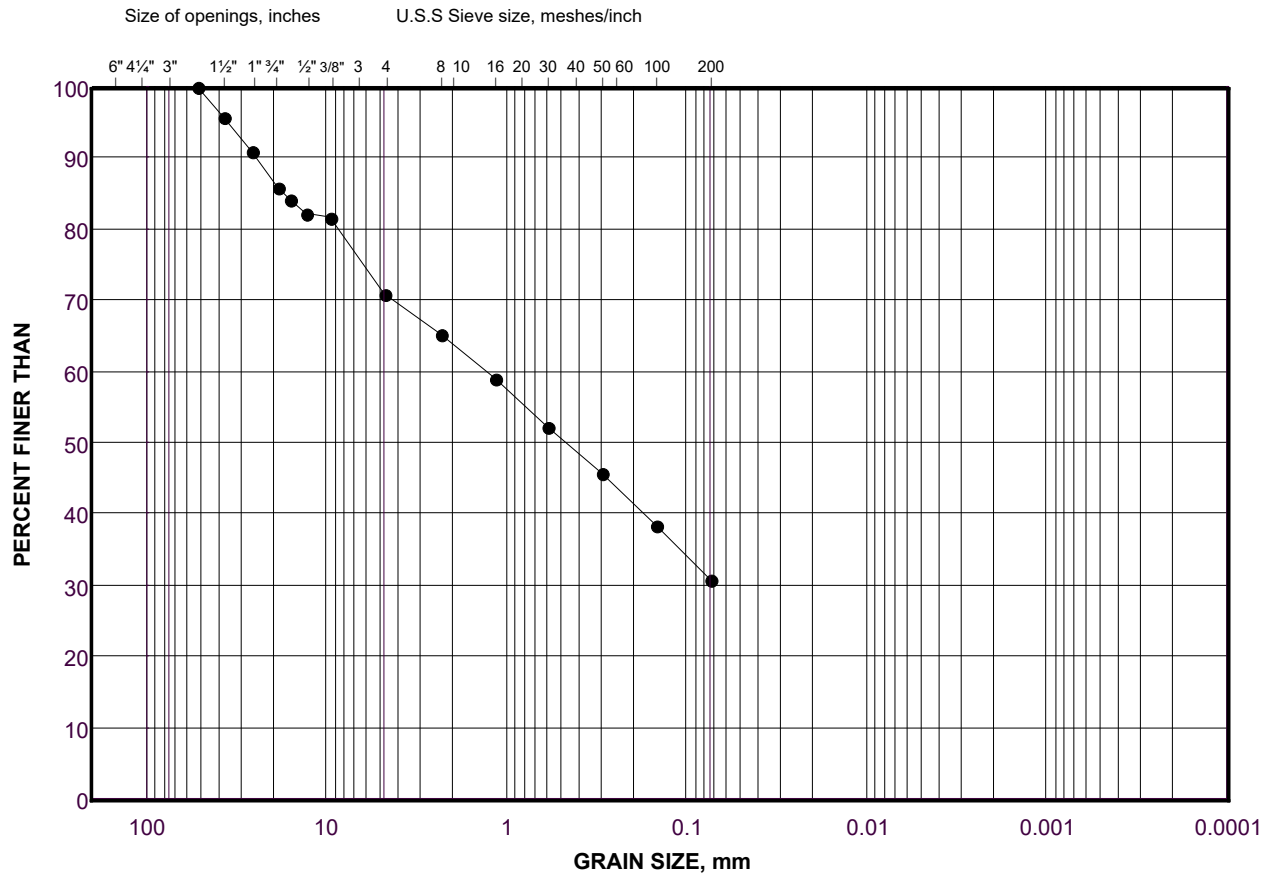
Depth 8
Units Imperial
Testing Date 3/28/22 12:52:44 PM
Tested By Sieve - JB
LabID 22-607

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-----------|
| ● | BH 21-04 | 2 | 3.0 - 8.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 4202.8(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 698.50 | 16.62 | 37.50 | 83.4 |
| 26.5mm | 917.30 | 5.21 | 26.50 | 78.2 |
| 19.0mm | 1131.10 | 5.09 | 19.00 | 73.1 |
| 16mm | 1259.40 | 3.05 | 16.00 | 70.0 |
| 13.2mm | 1331.80 | 1.72 | 13.20 | 68.3 |
| 9.5mm | 1505.30 | 4.13 | 9.50 | 64.2 |
| 4.75mm | 1867.00 | 8.61 | 4.75 | 55.6 |
| PAN | 2327.00 | 55.57 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 27.70 | 4.89 | 2.36 | 50.7 |
| 1.18mm | 58.40 | 5.42 | 1.18 | 45.3 |
| 600µm | 89.20 | 5.43 | 0.60 | 39.8 |
| 300µm | 117.70 | 5.03 | 0.30 | 34.8 |
| 150µm | 143.90 | 4.62 | 0.15 | 30.2 |
| 75µm | 175.10 | 5.50 | 0.08 | 24.7 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-04
Sample Number 3A
Checked By _____

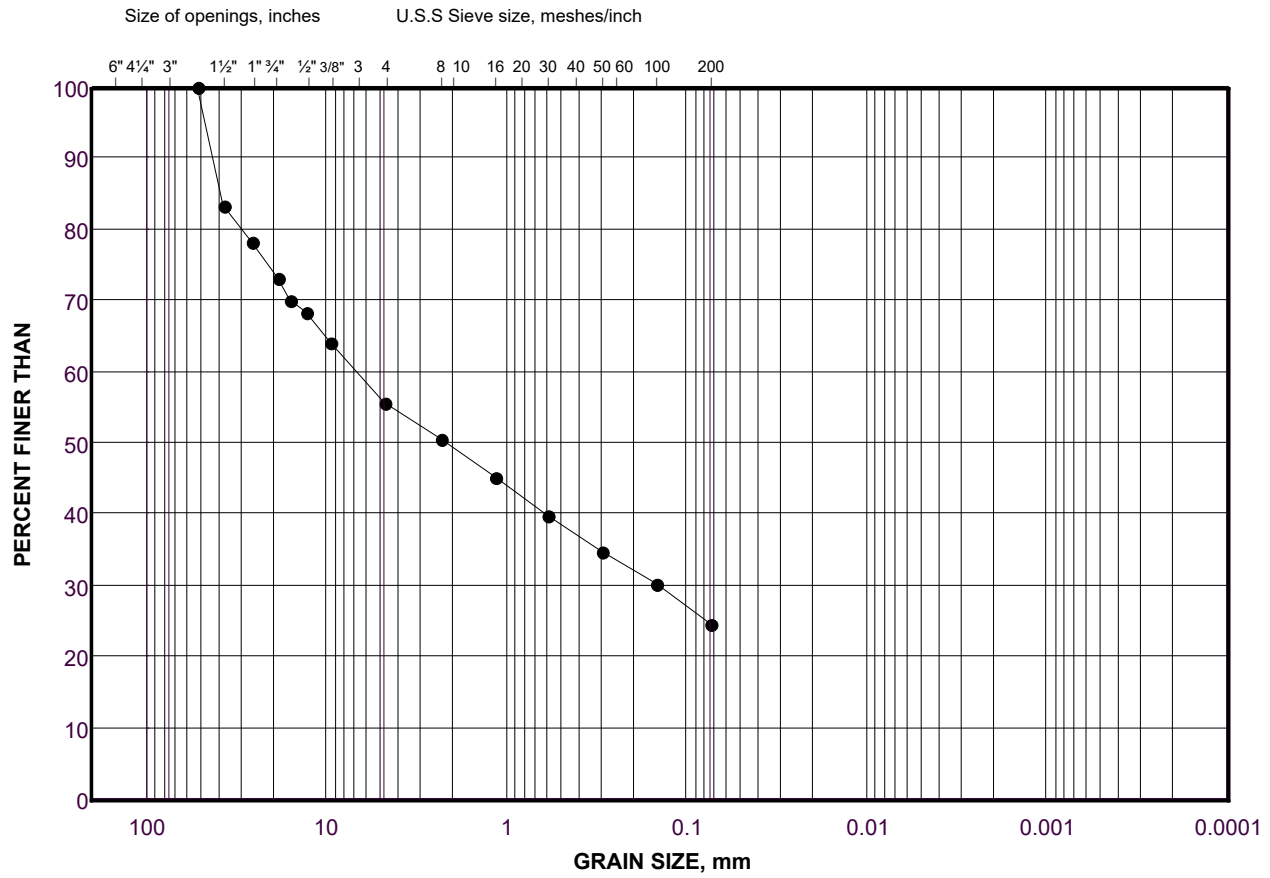
Depth 8
Units Imperial
Testing Date 3/28/22 1:22:32 PM
Tested By Sieve - AM
LabID 22-636

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-----------|
| ● | BH 21-04 | 3A | 8.0 - 9.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 10615(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 274.20 | 2.58 | 53.00 | 97.4 |
| 37.5mm | 574.70 | 2.83 | 37.50 | 94.6 |
| 26.5mm | 902.40 | 3.09 | 26.50 | 91.5 |
| 19.0mm | 1381.30 | 4.51 | 19.00 | 87.0 |
| 16mm | 1603.70 | 2.10 | 16.00 | 84.9 |
| 13.2mm | 1776.60 | 1.63 | 13.20 | 83.3 |
| 9.5mm | 2152.20 | 3.54 | 9.50 | 79.7 |
| 4.75mm | 2985.00 | 7.85 | 4.75 | 71.9 |
| PAN | 7607.90 | 71.87 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 23.90 | 6.62 | 2.36 | 65.3 |
| 1.18mm | 49.60 | 7.12 | 1.18 | 58.1 |
| 600µm | 75.20 | 7.09 | 0.60 | 51.0 |
| 300µm | 98.10 | 6.34 | 0.30 | 44.7 |
| 150µm | 119.30 | 5.87 | 0.15 | 38.8 |
| 75µm | 141.80 | 6.23 | 0.08 | 32.6 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-04
Sample Number 3B
Checked By _____

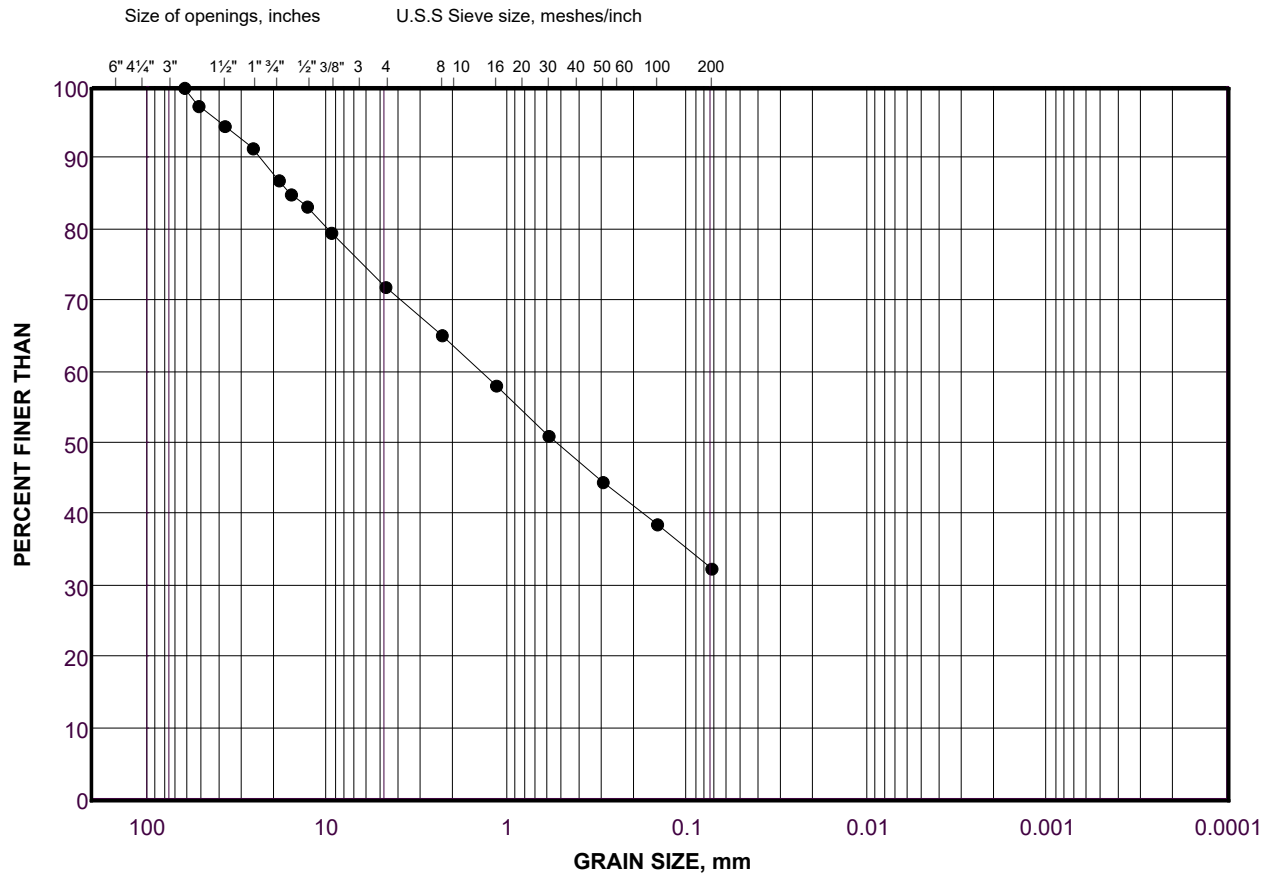
Depth 13
Units Imperial
Testing Date 3/28/22 1:25:47 PM
Tested By Sieve - TP
LabID 22-637

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|------------|
| ● | BH 21-04 | 3B | 9.0 - 13.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 14039.4(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 283.00 | 2.02 | 53.00 | 98.0 |
| 37.5mm | 508.20 | 1.60 | 37.50 | 96.4 |
| 26.5mm | 1574.70 | 7.60 | 26.50 | 88.8 |
| 19.0mm | 2252.40 | 4.83 | 19.00 | 84.0 |
| 16mm | 2583.40 | 2.36 | 16.00 | 81.6 |
| 13.2mm | 2778.20 | 1.39 | 13.20 | 80.2 |
| 9.5mm | 3185.20 | 2.90 | 9.50 | 77.3 |
| 4.75mm | 4316.80 | 8.06 | 4.75 | 69.2 |
| PAN | 9722.60 | 69.24 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 31.60 | 7.46 | 2.36 | 61.8 |
| 1.18mm | 60.10 | 6.73 | 1.18 | 55.1 |
| 600µm | 81.70 | 5.10 | 0.60 | 50.0 |
| 300µm | 104.40 | 5.36 | 0.30 | 44.6 |
| 150µm | 128.90 | 5.79 | 0.15 | 38.8 |
| 75µm | 151.70 | 5.39 | 0.08 | 33.4 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-04
Sample Number 4
Checked By _____

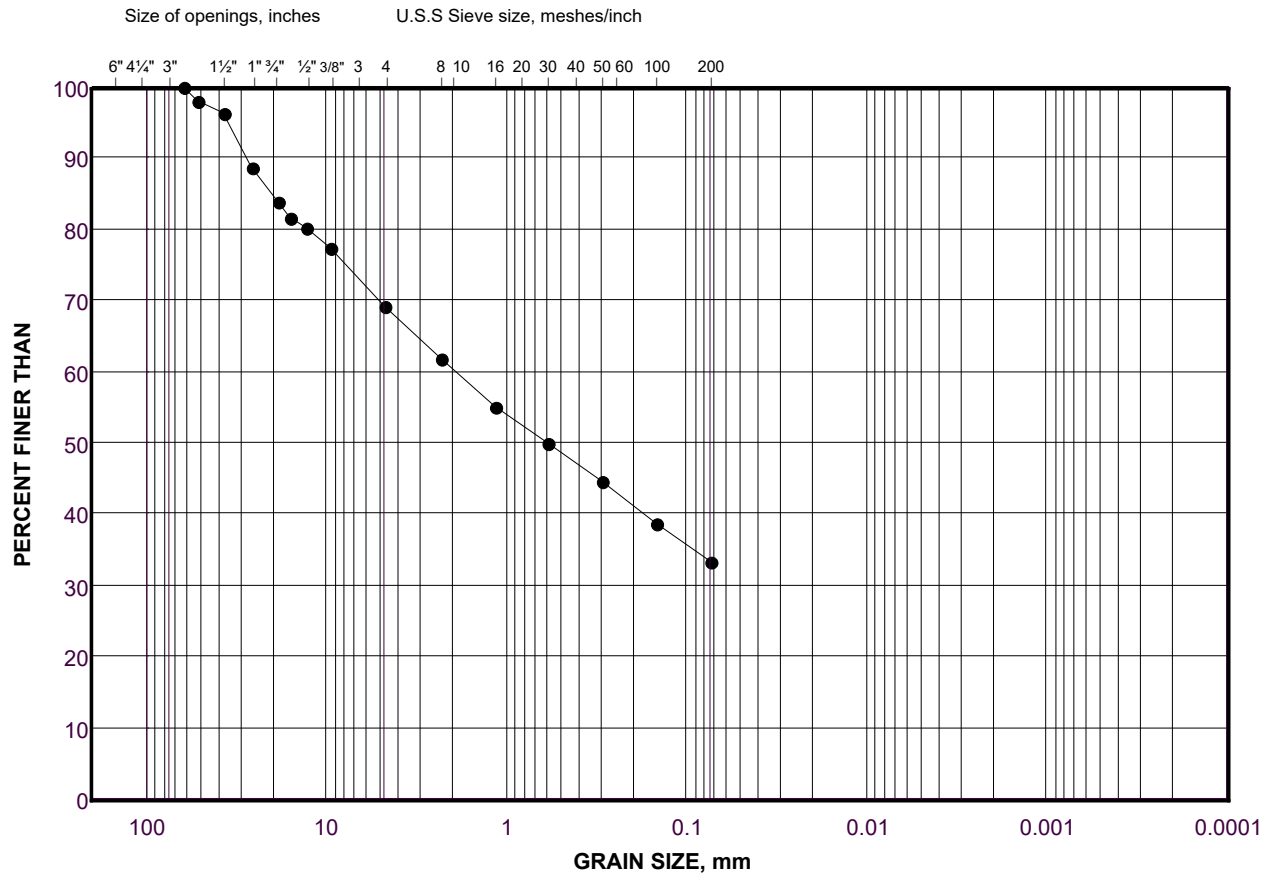
Depth
Units
Testing Date 3/28/22 1:31:00 PM
Tested By Sieve - IC
LabID 22-563

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(m) |
|--------|----------|--------|-------------|
| ● | BH 21-04 | 4 | 13.0 - 18.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 18908.4(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1592.30 | 8.42 | 75.00 | 91.6 |
| 63mm | 2205.20 | 3.24 | 63.00 | 88.3 |
| 53mm | 2472.40 | 1.41 | 53.00 | 86.9 |
| 37.5mm | 2809.80 | 1.78 | 37.50 | 85.2 |
| 26.5mm | 3221.90 | 2.18 | 26.50 | 83.0 |
| 19.0mm | 3892.40 | 3.55 | 19.00 | 79.4 |
| 16mm | 4304.90 | 2.18 | 16.00 | 77.2 |
| 13.2mm | 4640.60 | 1.78 | 13.20 | 75.5 |
| 9.5mm | 5304.00 | 3.51 | 9.50 | 72.0 |
| 4.75mm | 6578.40 | 6.74 | 4.75 | 65.2 |
| PAN | 12326.30 | 65.21 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 30.70 | 7.54 | 2.36 | 57.7 |
| 1.18mm | 58.10 | 6.73 | 1.18 | 50.9 |
| 600µm | 82.60 | 6.02 | 0.60 | 44.9 |
| 300µm | 105.60 | 5.65 | 0.30 | 39.3 |
| 150µm | 128.20 | 5.55 | 0.15 | 33.7 |
| 75µm | 149.20 | 5.16 | 0.08 | 28.6 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-04
Sample Number 5
Checked By _____

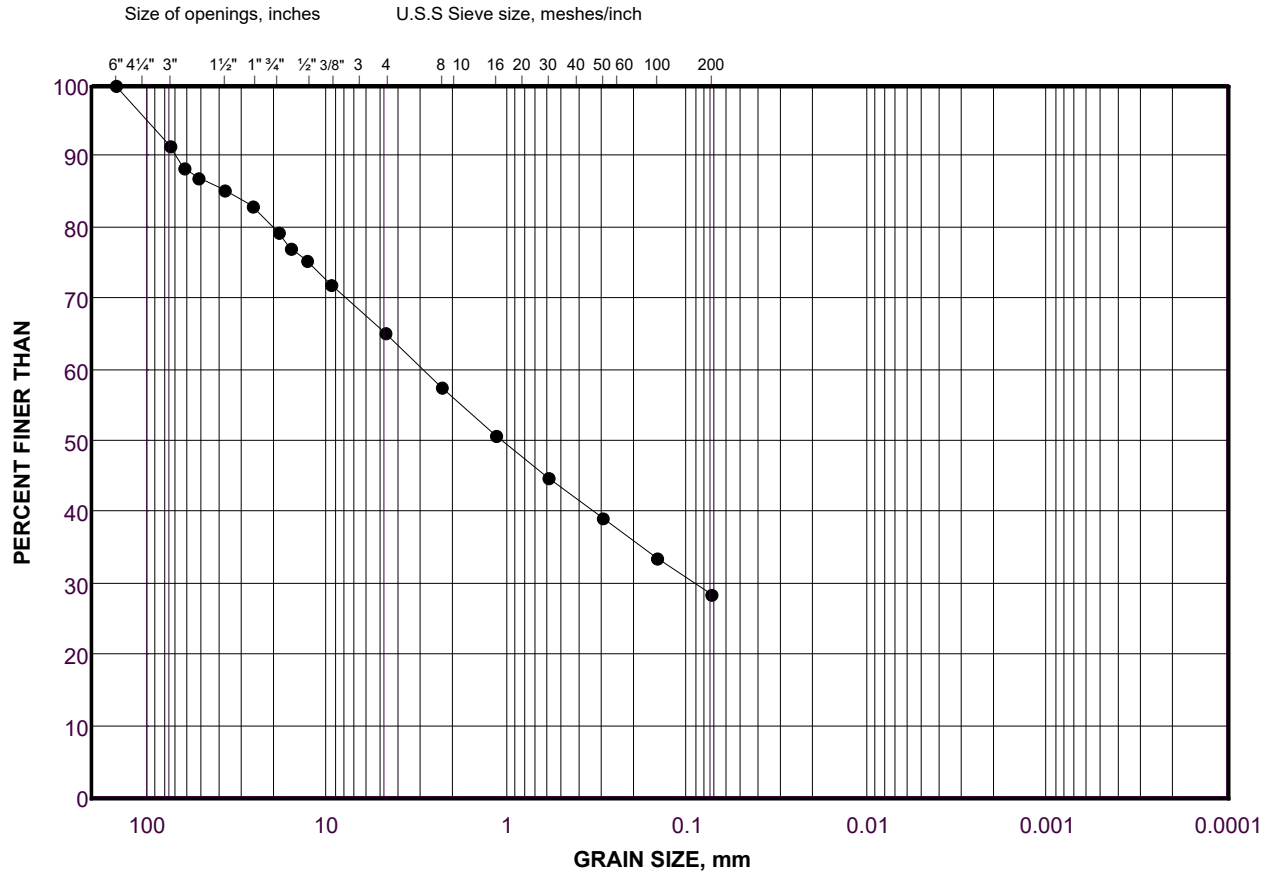
Depth 23
Units Imperial
Testing Date 3/28/22 1:34:21 PM
Tested By Sieve - TP
LabID 22-638

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | BH 21-04 | 5 | 18.0 - 23.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 14971(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1064.00 | 7.11 | 75.00 | 92.9 |
| 63mm | 1542.00 | 3.19 | 63.00 | 89.7 |
| 53mm | 1542.00 | 0.00 | 53.00 | 89.7 |
| 37.5mm | 2516.00 | 6.51 | 37.50 | 83.2 |
| 26.5mm | 3786.00 | 8.48 | 26.50 | 74.7 |
| 19.0mm | 4434.00 | 4.33 | 19.00 | 70.4 |
| 16mm | 4736.00 | 2.02 | 16.00 | 68.4 |
| 13.2mm | 5120.00 | 2.56 | 13.20 | 65.8 |
| 9.5mm | 5770.00 | 4.34 | 9.50 | 61.5 |
| 4.75mm | 6806.00 | 6.92 | 4.75 | 54.5 |
| PAN | 8165.00 | 54.54 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 39.11 | 6.37 | 2.36 | 48.2 |
| 1.18mm | 77.17 | 6.20 | 1.18 | 42.0 |
| 600µm | 114.45 | 6.08 | 0.60 | 35.9 |
| 300µm | 149.15 | 5.66 | 0.30 | 30.2 |
| 150µm | 181.27 | 5.24 | 0.15 | 25.0 |
| 75µm | 209.98 | 4.68 | 0.08 | 20.3 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-04
Sample Number 6
Checked By _____

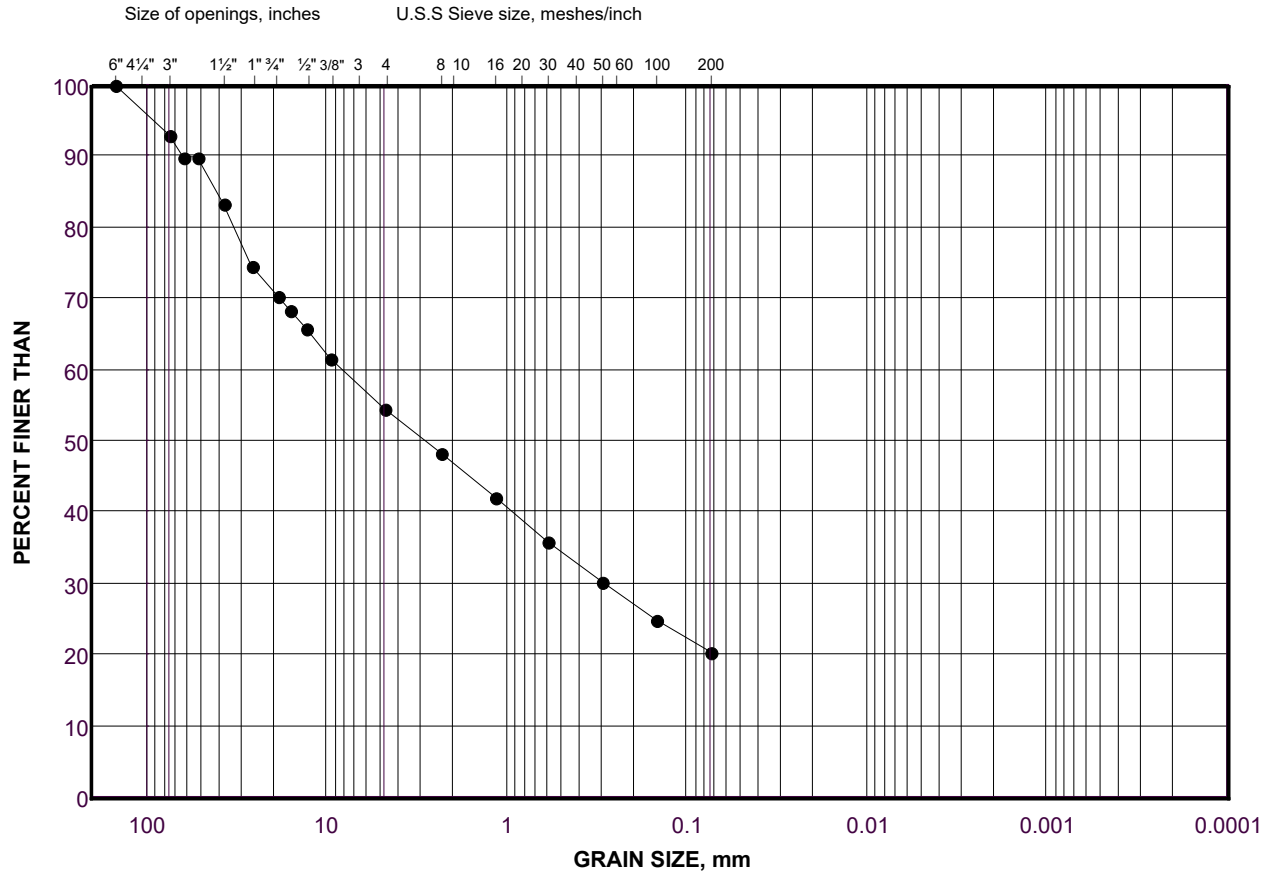
Depth 28
Units Imperial
Testing Date 3/28/22 1:38:28 PM
Tested By Sieve - JB
LabID 22-608

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | BH 21-04 | 6 | 23.0 - 28.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 13603.1(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1678.00 | 12.34 | 75.00 | 87.7 |
| 63mm | 1678.00 | 0.00 | 63.00 | 87.7 |
| 53mm | 1678.00 | 0.00 | 53.00 | 87.7 |
| 37.5mm | 2448.80 | 5.67 | 37.50 | 82.0 |
| 26.5mm | 3025.80 | 4.24 | 26.50 | 77.8 |
| 19.0mm | 3428.60 | 2.96 | 19.00 | 74.8 |
| 16mm | 3770.00 | 2.51 | 16.00 | 72.3 |
| 13.2mm | 4055.60 | 2.10 | 13.20 | 70.2 |
| 9.5mm | 4708.70 | 4.80 | 9.50 | 65.4 |
| 4.75mm | 5860.90 | 8.47 | 4.75 | 56.9 |
| PAN | 7702.30 | 56.91 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 43.40 | 9.25 | 2.36 | 47.7 |
| 1.18mm | 83.80 | 8.61 | 1.18 | 39.1 |
| 600µm | 118.10 | 7.31 | 0.60 | 31.7 |
| 300µm | 144.80 | 5.69 | 0.30 | 26.1 |
| 150µm | 163.80 | 4.05 | 0.15 | 22.0 |
| 75µm | 182.70 | 4.03 | 0.08 | 18.0 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-04
Sample Number 9
Checked By _____

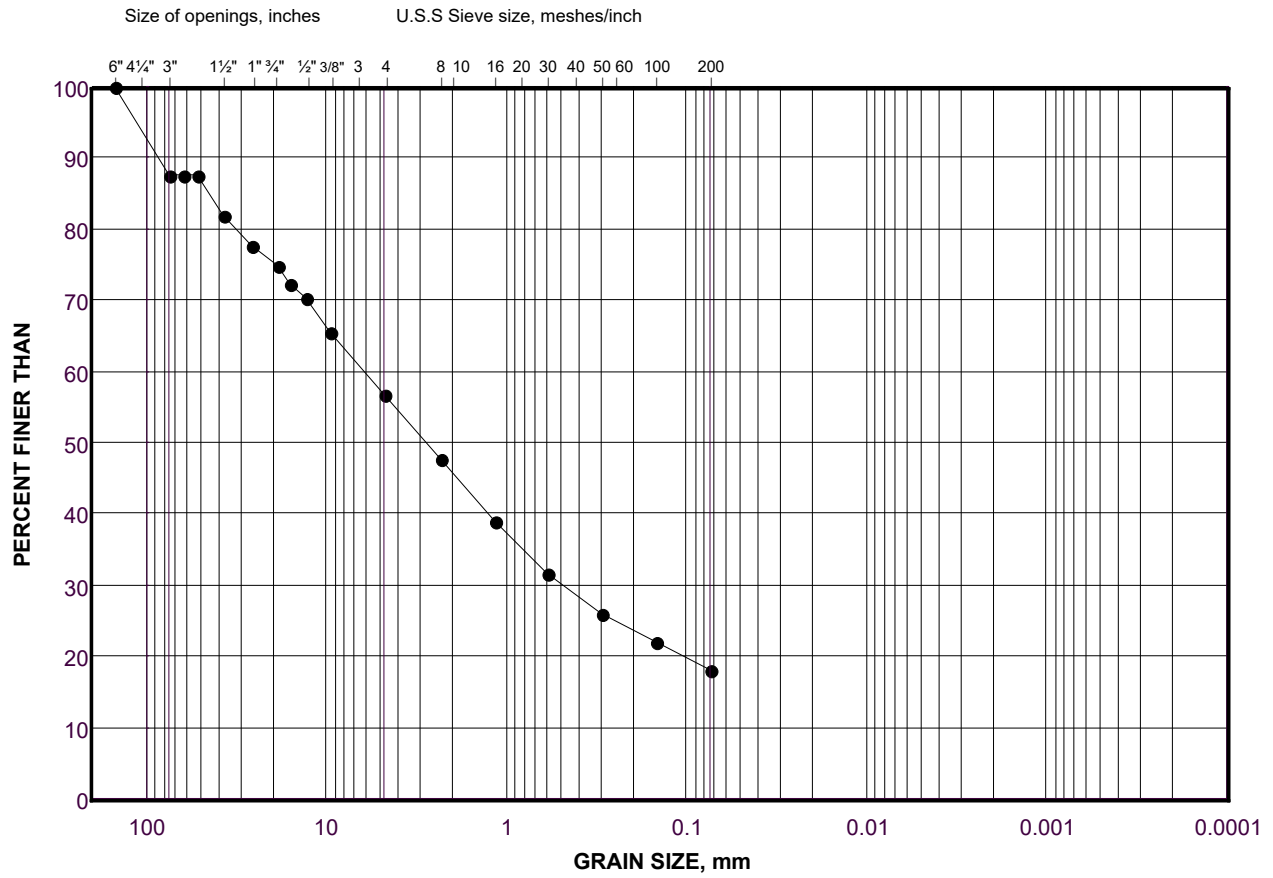
Depth 43
Units Imperial
Testing Date 3/07/22 1:06:47 PM
Tested By Sieve - lb
LabID 22-428

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | BH 21-04 | 9 | 38.0 - 43.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 13996.9(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 1599.70 | 11.43 | 63.00 | 88.6 |
| 53mm | 1599.70 | 0.00 | 53.00 | 88.6 |
| 37.5mm | 2382.90 | 5.60 | 37.50 | 83.0 |
| 26.5mm | 3947.10 | 11.18 | 26.50 | 71.8 |
| 19.0mm | 4960.00 | 7.24 | 19.00 | 64.6 |
| 16mm | 386.70 | -32.67 | 16.00 | 97.2 |
| 13.2mm | 5792.50 | 38.62 | 13.20 | 58.6 |
| 9.5mm | 6534.40 | 5.30 | 9.50 | 53.3 |
| 4.75mm | 7938.60 | 10.03 | 4.75 | 43.3 |
| PAN | 6031.60 | 43.27 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 56.90 | 8.63 | 2.36 | 34.6 |
| 1.18mm | 101.00 | 6.69 | 1.18 | 28.0 |
| 600µm | 140.30 | 5.96 | 0.60 | 22.0 |
| 300µm | 174.40 | 5.17 | 0.30 | 16.8 |
| 150µm | 207.70 | 5.05 | 0.15 | 11.8 |
| 75µm | 232.90 | 3.82 | 0.08 | 8.0 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-04
Sample Number 10
Checked By _____

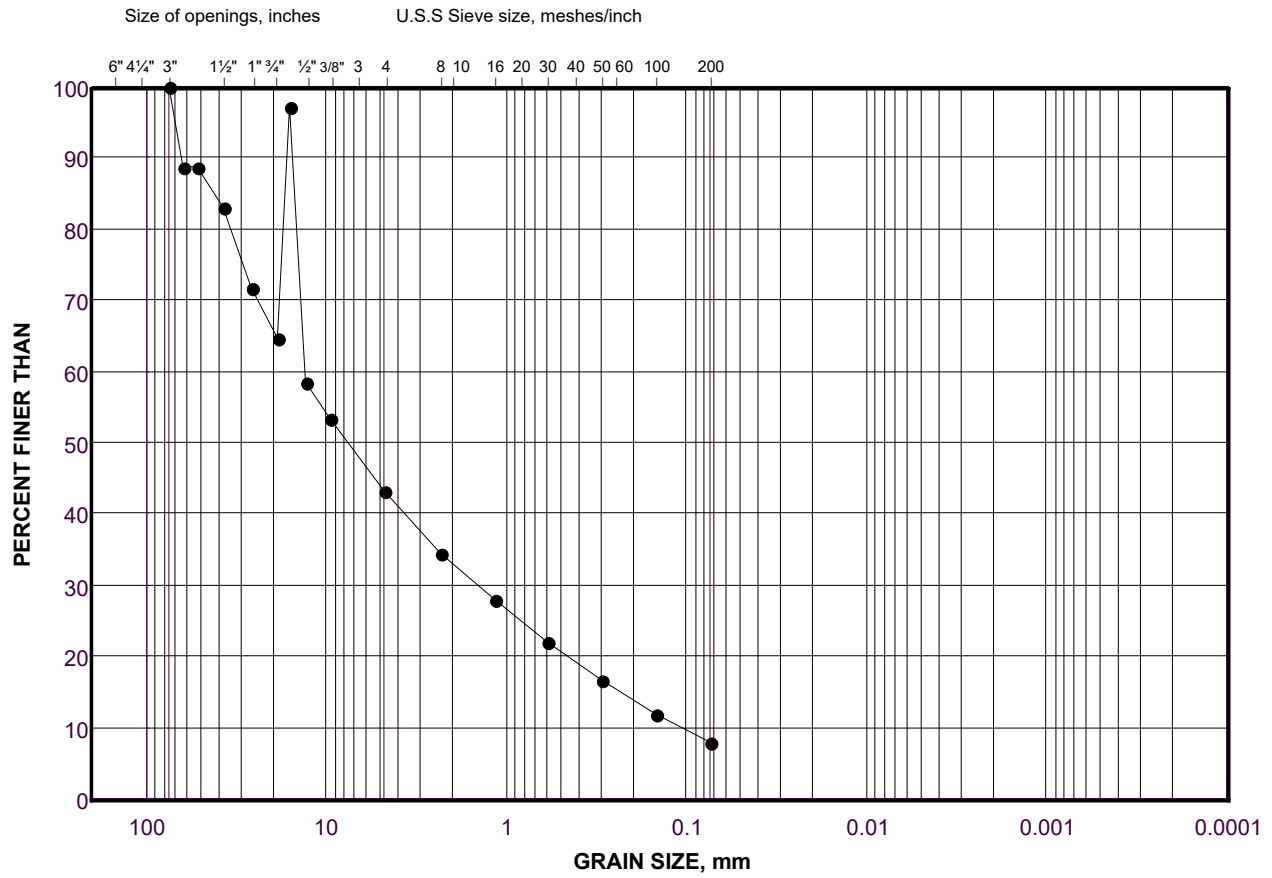
Depth 48
Units Imperial
Testing Date 3/28/22 1:55:49 PM
Tested By Sieve - LB
LabID 22-571

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |
| SIZE | | | | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-04 | 10 | 43.0 - 48.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 14993.3(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 638.50 | 4.26 | 63.00 | 95.7 |
| 53mm | 1023.10 | 2.57 | 53.00 | 93.2 |
| 37.5mm | 2382.80 | 9.07 | 37.50 | 84.1 |
| 26.5mm | 3130.00 | 4.98 | 26.50 | 79.1 |
| 19.0mm | 3958.10 | 5.52 | 19.00 | 73.6 |
| 16mm | 4470.10 | 3.41 | 16.00 | 70.2 |
| 13.2mm | 4836.60 | 2.44 | 13.20 | 67.8 |
| 9.5mm | 5708.10 | 5.81 | 9.50 | 61.9 |
| 4.75mm | 7124.60 | 9.45 | 4.75 | 52.5 |
| PAN | 7847.20 | 52.49 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 24.80 | 4.96 | 2.36 | 47.5 |
| 1.18mm | 53.00 | 5.64 | 1.18 | 41.9 |
| 600µm | 78.50 | 5.10 | 0.60 | 36.8 |
| 300µm | 101.60 | 4.62 | 0.30 | 32.2 |
| 150µm | 122.90 | 4.26 | 0.15 | 27.9 |
| 75µm | 143.10 | 4.04 | 0.08 | 23.9 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-04
Sample Number 11
Checked By _____

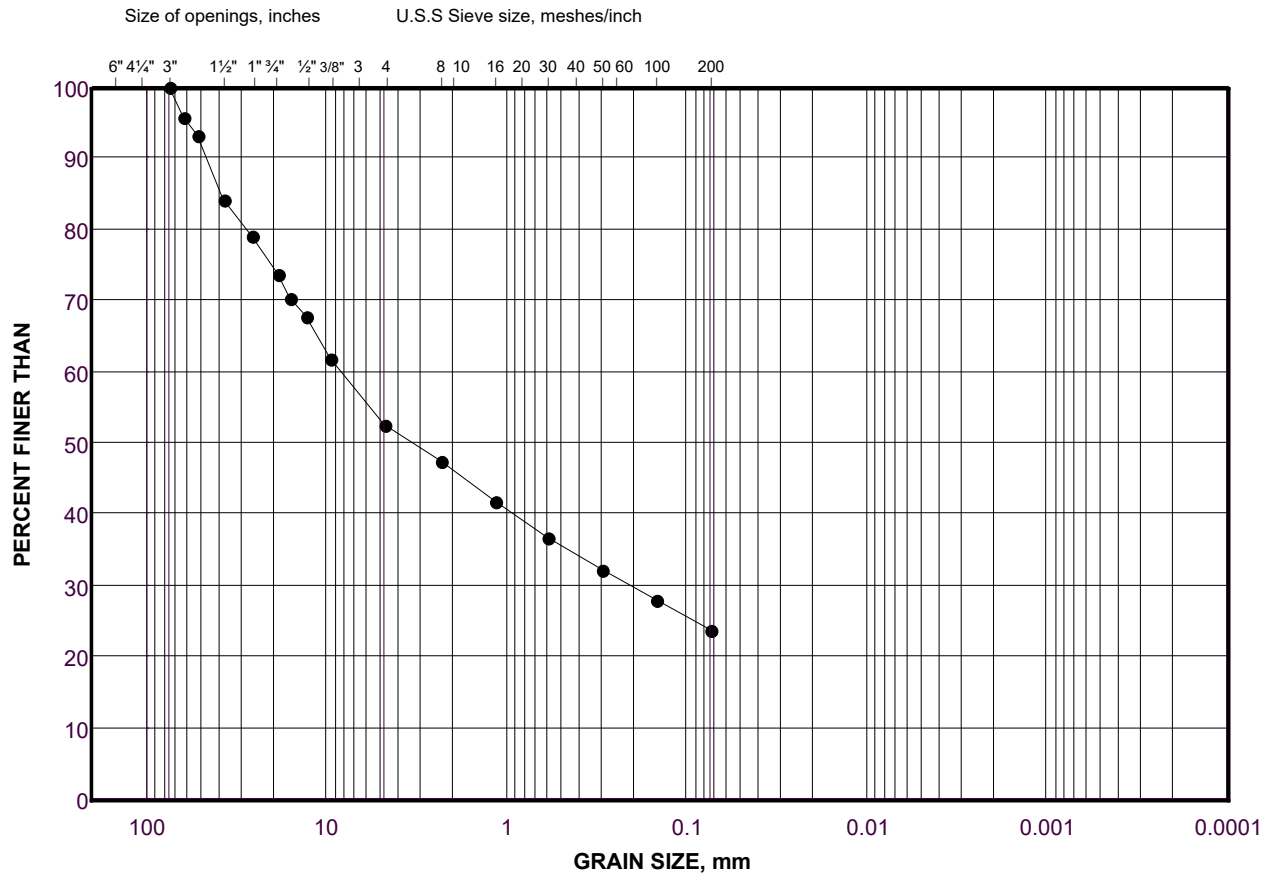
Depth 53
Units Imperial
Testing Date 3/28/22 1:58:55 PM
Tested By Sieve - LB
LabID 22-639

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-04 | 11 | 48.0 - 53.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 13664.4(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 0.00 | 0.00 | 37.50 | 100.0 |
| 26.5mm | 314.30 | 2.30 | 26.50 | 97.7 |
| 19.0mm | 946.90 | 4.63 | 19.00 | 93.1 |
| 16mm | 1178.30 | 1.69 | 16.00 | 91.4 |
| 13.2mm | 1445.10 | 1.95 | 13.20 | 89.4 |
| 9.5mm | 2114.40 | 4.90 | 9.50 | 84.5 |
| 4.75mm | 3263.80 | 8.41 | 4.75 | 76.1 |
| PAN | 10390.70 | 76.12 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 27.90 | 7.06 | 2.36 | 69.1 |
| 1.18mm | 57.40 | 7.46 | 1.18 | 61.6 |
| 600µm | 87.10 | 7.51 | 0.60 | 54.1 |
| 300µm | 125.30 | 9.66 | 0.30 | 44.4 |
| 150µm | 171.00 | 11.56 | 0.15 | 32.9 |
| 75µm | 213.90 | 10.85 | 0.08 | 22.0 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-04
Sample Number 12A
Checked By _____

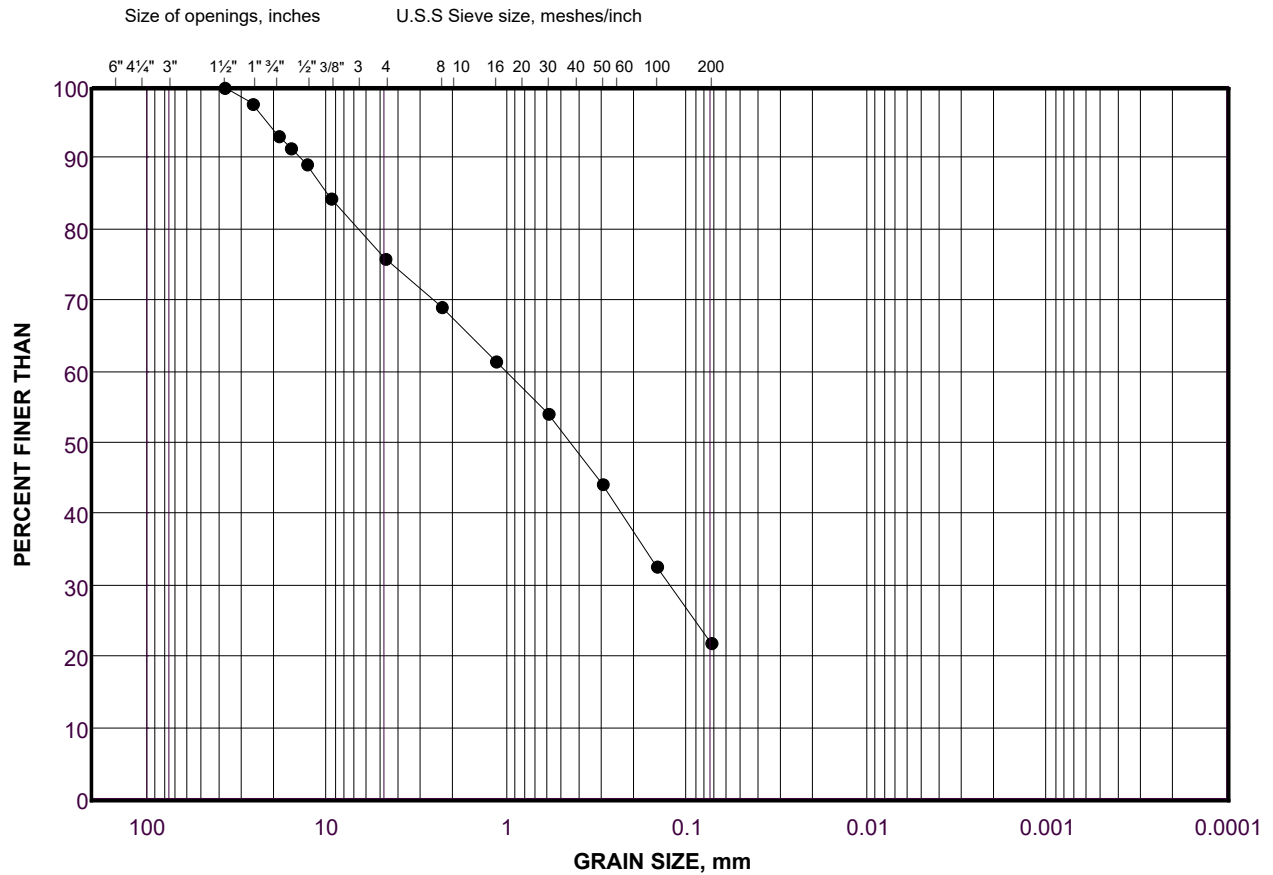
Depth 57
Units Imperial
Testing Date 3/28/22 2:01:59 PM
Tested By Sieve - AM
LabID 22-640

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-04 | 12A | 53.0 - 57.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 4285.7(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 475.60 | 11.10 | 37.50 | 88.9 |
| 26.5mm | 692.50 | 5.06 | 26.50 | 83.8 |
| 19.0mm | 881.90 | 4.42 | 19.00 | 79.4 |
| 16mm | 905.00 | 0.54 | 16.00 | 78.9 |
| 13.2mm | 926.20 | 0.49 | 13.20 | 78.4 |
| 9.5mm | 1123.70 | 4.61 | 9.50 | 73.8 |
| 4.75mm | 1448.30 | 7.57 | 4.75 | 66.2 |
| PAN | 2837.40 | 66.21 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 28.40 | 7.06 | 2.36 | 59.2 |
| 1.18mm | 56.40 | 6.96 | 1.18 | 52.2 |
| 600µm | 80.10 | 5.89 | 0.60 | 46.3 |
| 300µm | 109.90 | 7.41 | 0.30 | 38.9 |
| 150µm | 141.70 | 7.90 | 0.15 | 31.0 |
| 75µm | 176.30 | 8.60 | 0.08 | 22.4 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-04
Sample Number 12B
Checked By _____

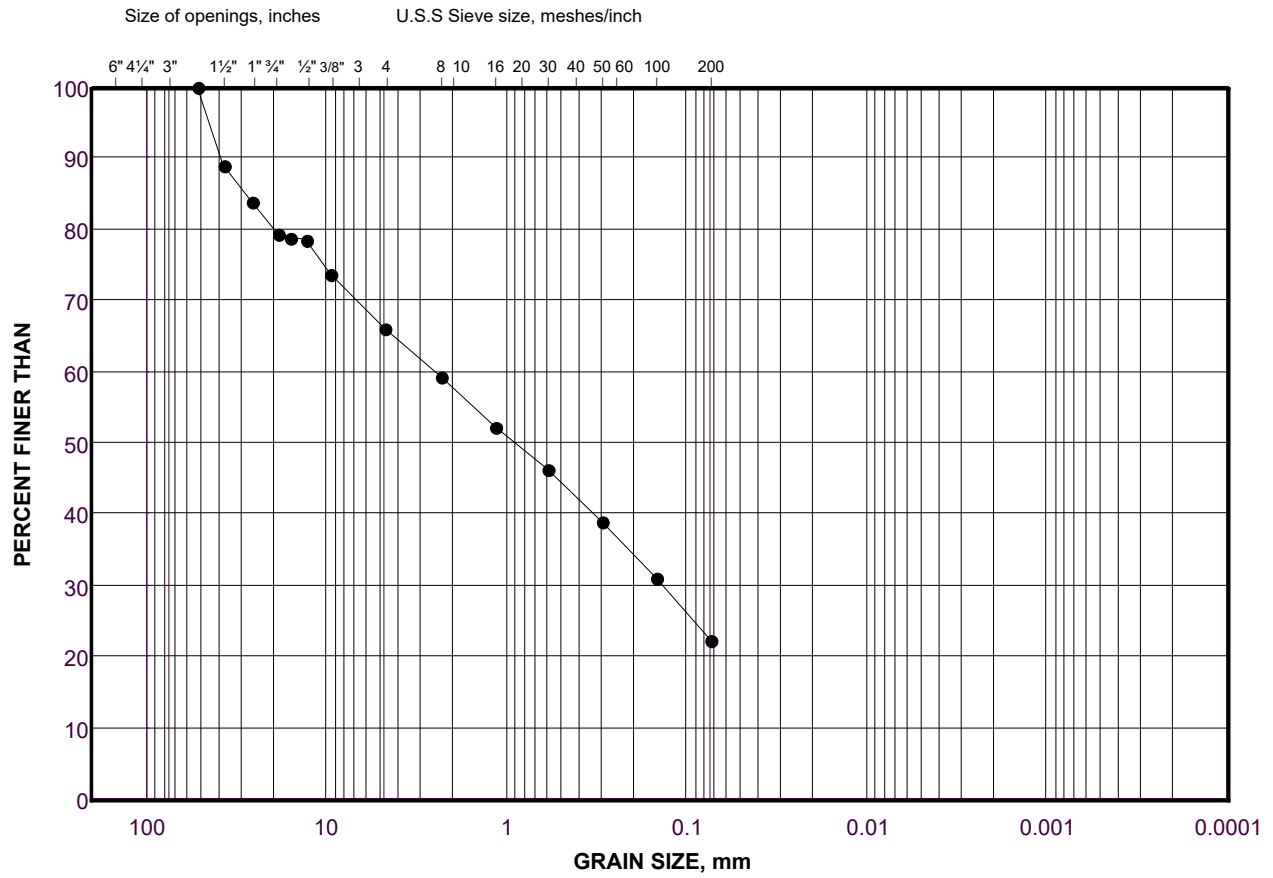
Depth 58
Units Imperial
Testing Date 3/28/22 2:05:20 PM
Tested By Sieve - AM
LabID 22-641

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-04 | 12B | 57.0 - 58.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 12919.8(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 527.50 | 4.08 | 53.00 | 95.9 |
| 37.5mm | 1493.00 | 7.47 | 37.50 | 88.5 |
| 26.5mm | 2040.00 | 4.23 | 26.50 | 84.2 |
| 19.0mm | 2700.60 | 5.11 | 19.00 | 79.1 |
| 16mm | 3218.70 | 4.01 | 16.00 | 75.1 |
| 13.2mm | 3637.70 | 3.24 | 13.20 | 71.9 |
| 9.5mm | 4632.40 | 7.70 | 9.50 | 64.2 |
| 4.75mm | 6279.30 | 12.75 | 4.75 | 51.4 |
| PAN | 6616.20 | 51.41 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 69.30 | 12.14 | 2.36 | 39.3 |
| 1.18mm | 128.00 | 10.29 | 1.18 | 29.0 |
| 600µm | 177.70 | 8.71 | 0.60 | 20.3 |
| 300µm | 217.20 | 6.92 | 0.30 | 13.4 |
| 150µm | 241.50 | 4.26 | 0.15 | 9.1 |
| 75µm | 256.30 | 2.59 | 0.08 | 6.5 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-04
Sample Number 13
Checked By _____

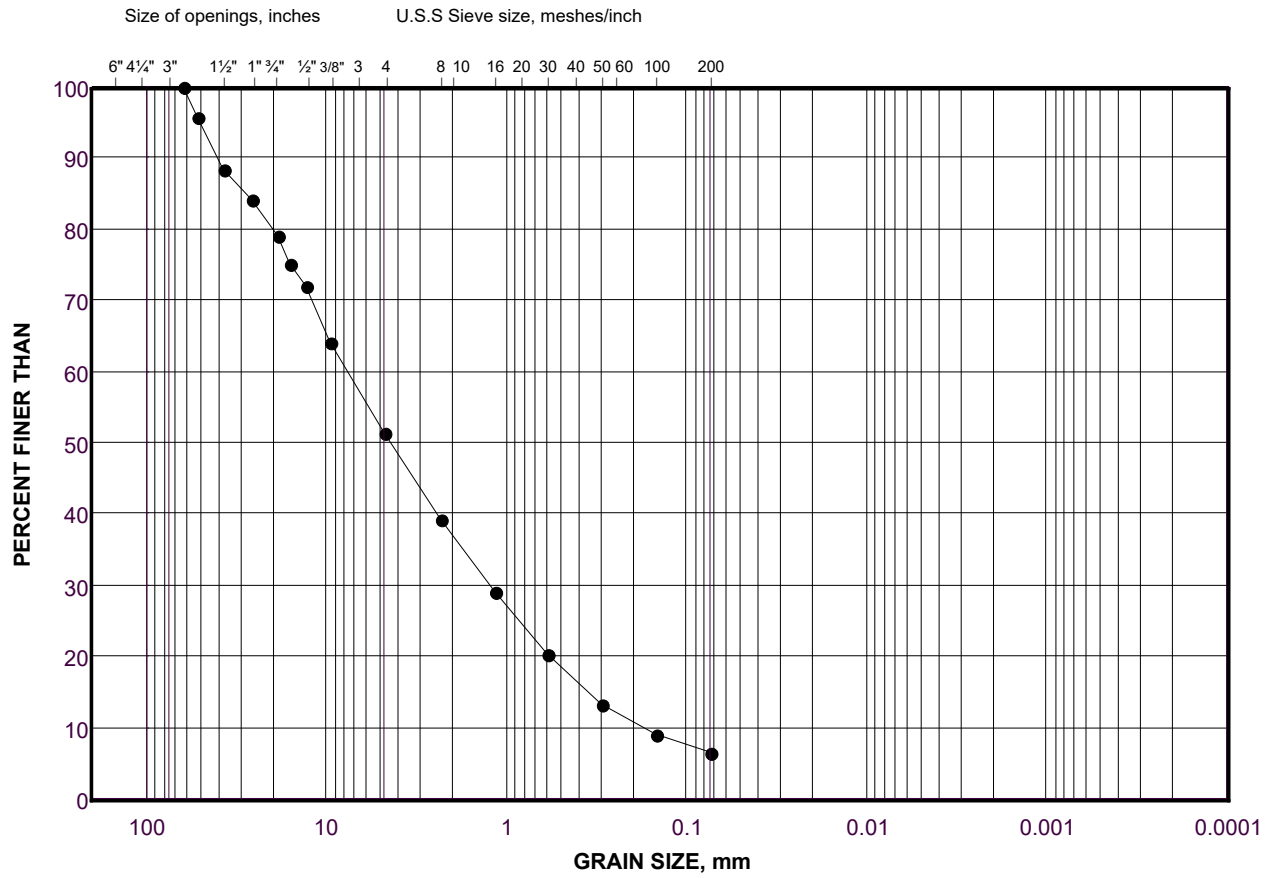
Depth 63
Units Imperial
Testing Date 3/07/22 1:10:06 PM
Tested By Sieve -
LabID 22-429

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-04 | 13 | 58.0 - 63.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 15336.7(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 544.40 | 3.55 | 63.00 | 96.5 |
| 53mm | 2822.40 | 14.85 | 53.00 | 81.6 |
| 37.5mm | 4383.40 | 10.18 | 37.50 | 71.4 |
| 26.5mm | 5663.90 | 8.35 | 26.50 | 63.1 |
| 19.0mm | 6776.20 | 7.25 | 19.00 | 55.8 |
| 16mm | 7318.60 | 3.54 | 16.00 | 52.3 |
| 13.2mm | 7750.60 | 2.82 | 13.20 | 49.5 |
| 9.5mm | 8785.90 | 6.75 | 9.50 | 42.7 |
| 4.75mm | 9757.30 | 6.33 | 4.75 | 36.4 |
| PAN | 5559.70 | 36.38 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 45.30 | 5.44 | 2.36 | 30.9 |
| 1.18mm | 91.10 | 5.50 | 1.18 | 25.4 |
| 600µm | 150.50 | 7.13 | 0.60 | 18.3 |
| 300µm | 208.90 | 7.01 | 0.30 | 11.3 |
| 150µm | 241.60 | 3.92 | 0.15 | 7.4 |
| 75µm | 261.20 | 2.35 | 0.08 | 5.0 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-04
Sample Number 18
Checked By _____

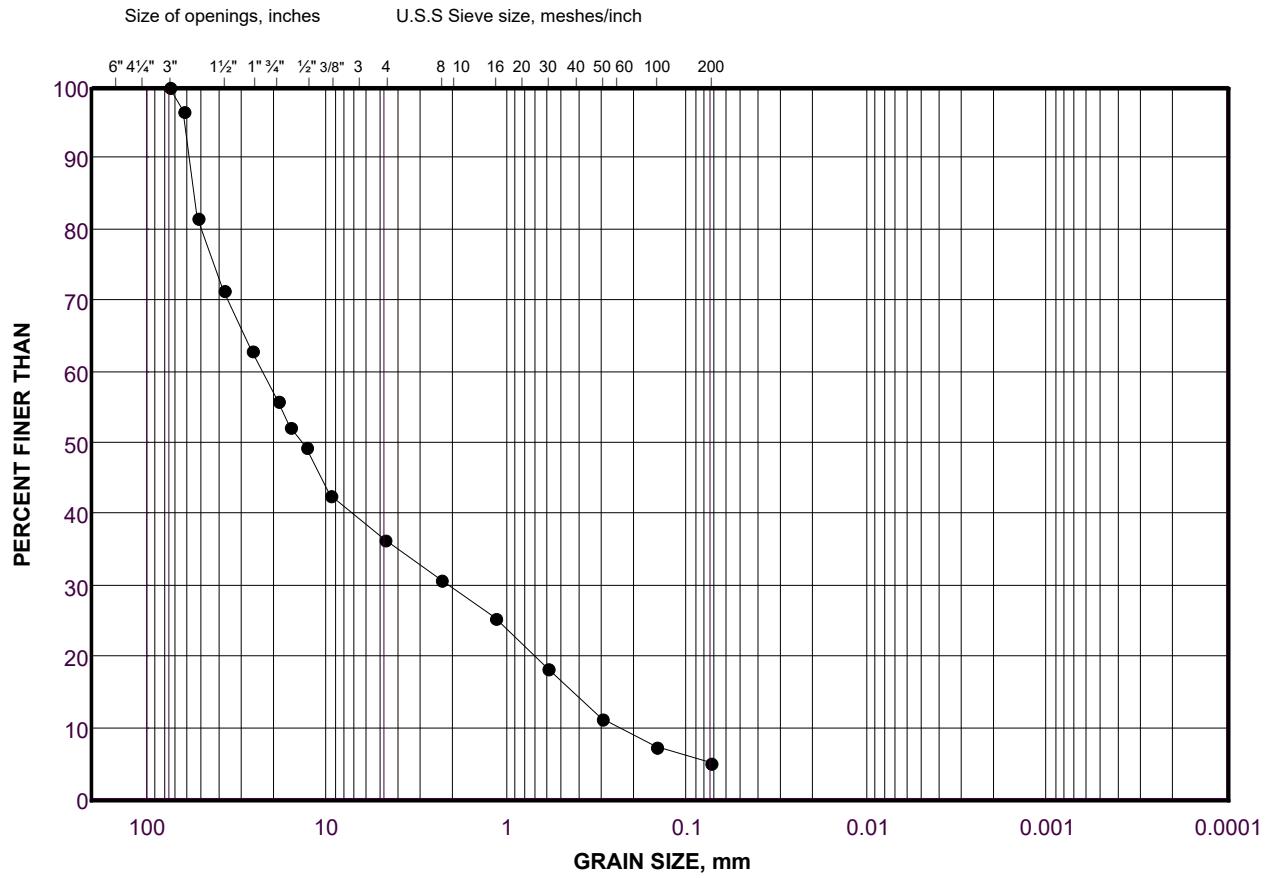
Depth 88
Units Imperial
Testing Date 3/28/22 2:15:10 PM
Tested By Sieve - AM
LabID 22-642

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | BH 21-04 | 18 | 83.0 - 88.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 16706(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 614.50 | 3.68 | 75.00 | 96.3 |
| 63mm | 2614.50 | 11.97 | 63.00 | 84.4 |
| 53mm | 2876.50 | 1.57 | 53.00 | 82.8 |
| 37.5mm | 5622.90 | 16.44 | 37.50 | 66.3 |
| 26.5mm | 6722.00 | 6.58 | 26.50 | 59.8 |
| 19.0mm | 8533.60 | 10.84 | 19.00 | 48.9 |
| 16mm | 9140.10 | 3.63 | 16.00 | 45.3 |
| 13.2mm | 9750.40 | 3.65 | 13.20 | 41.6 |
| 9.5mm | 10933.20 | 7.08 | 9.50 | 34.6 |
| 4.75mm | 13486.70 | 15.28 | 4.75 | 19.3 |
| PAN | 3219.80 | 19.28 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 48.50 | 3.71 | 2.36 | 15.6 |
| 1.18mm | 90.80 | 3.24 | 1.18 | 12.3 |
| 600µm | 122.00 | 2.39 | 0.60 | 9.9 |
| 300µm | 144.40 | 1.72 | 0.30 | 8.2 |
| 150µm | 170.10 | 1.97 | 0.15 | 6.3 |
| 75µm | 189.70 | 1.50 | 0.08 | 4.8 |

Project Number 21476582
Project Task 1000
Borehole Number BH 21-04
Sample Number 19
Checked By _____

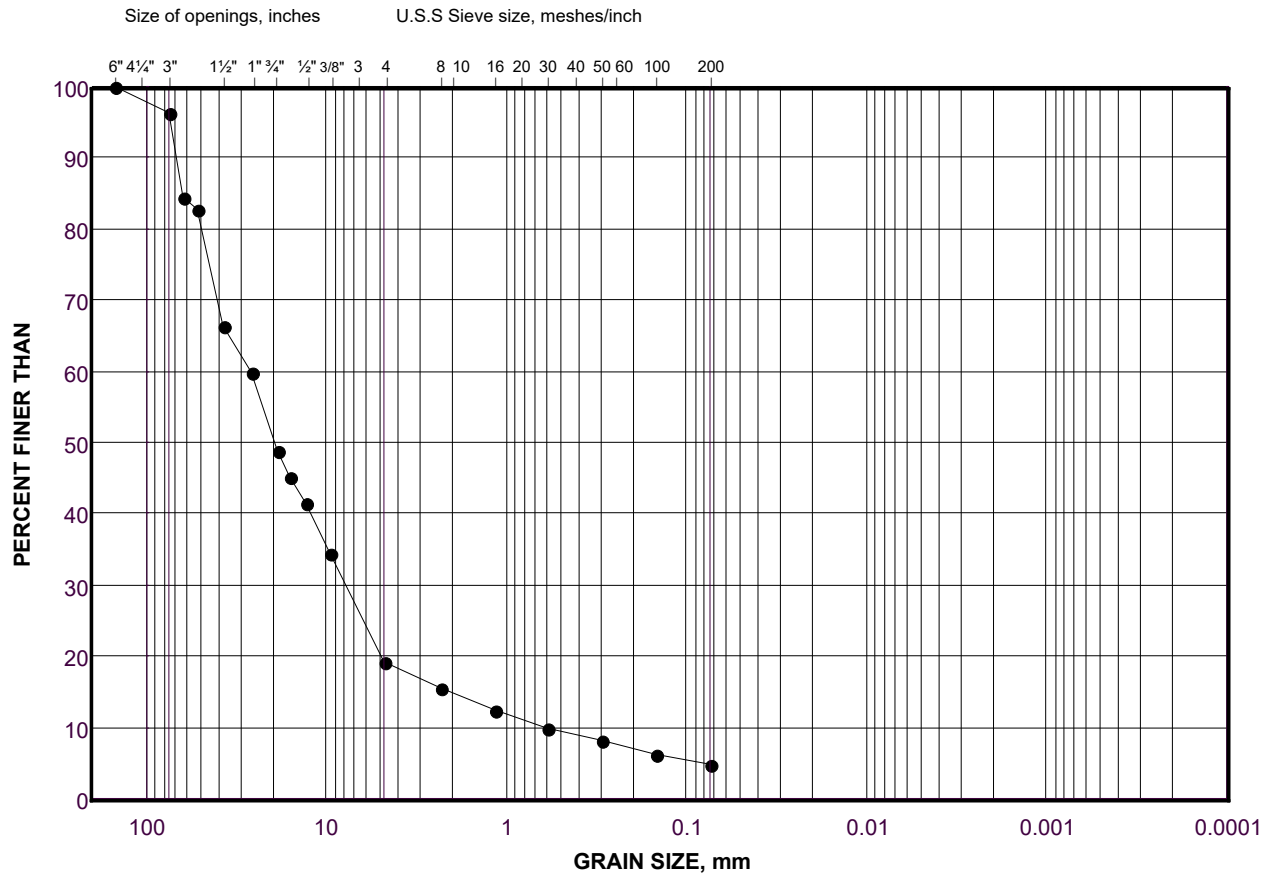
Depth 93
Units Imperial
Testing Date 3/07/22 1:55:50 PM
Tested By Sieve - LB
LabID 22-430

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | BH 21-04 | 19 | 88.0 - 93.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 3077.9(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 0.00 | 0.00 | 37.50 | 100.0 |
| 26.5mm | 240.20 | 7.80 | 26.50 | 92.2 |
| 19.0mm | 370.90 | 4.25 | 19.00 | 88.0 |
| 16mm | 470.30 | 3.23 | 16.00 | 84.7 |
| 13.2mm | 571.30 | 3.28 | 13.20 | 81.4 |
| 9.5mm | 571.30 | 0.00 | 9.50 | 81.4 |
| 4.75mm | 731.20 | 5.20 | 4.75 | 76.2 |
| PAN | 2341.80 | 76.24 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 9.70 | 2.67 | 2.36 | 73.6 |
| 1.18mm | 20.60 | 3.01 | 1.18 | 70.6 |
| 600µm | 35.40 | 4.08 | 0.60 | 66.5 |
| 300µm | 60.20 | 6.84 | 0.30 | 59.6 |
| 150µm | 100.80 | 11.19 | 0.15 | 48.5 |
| 75µm | 146.40 | 12.57 | 0.08 | 35.9 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-01
Sample Number 1A
Checked By _____

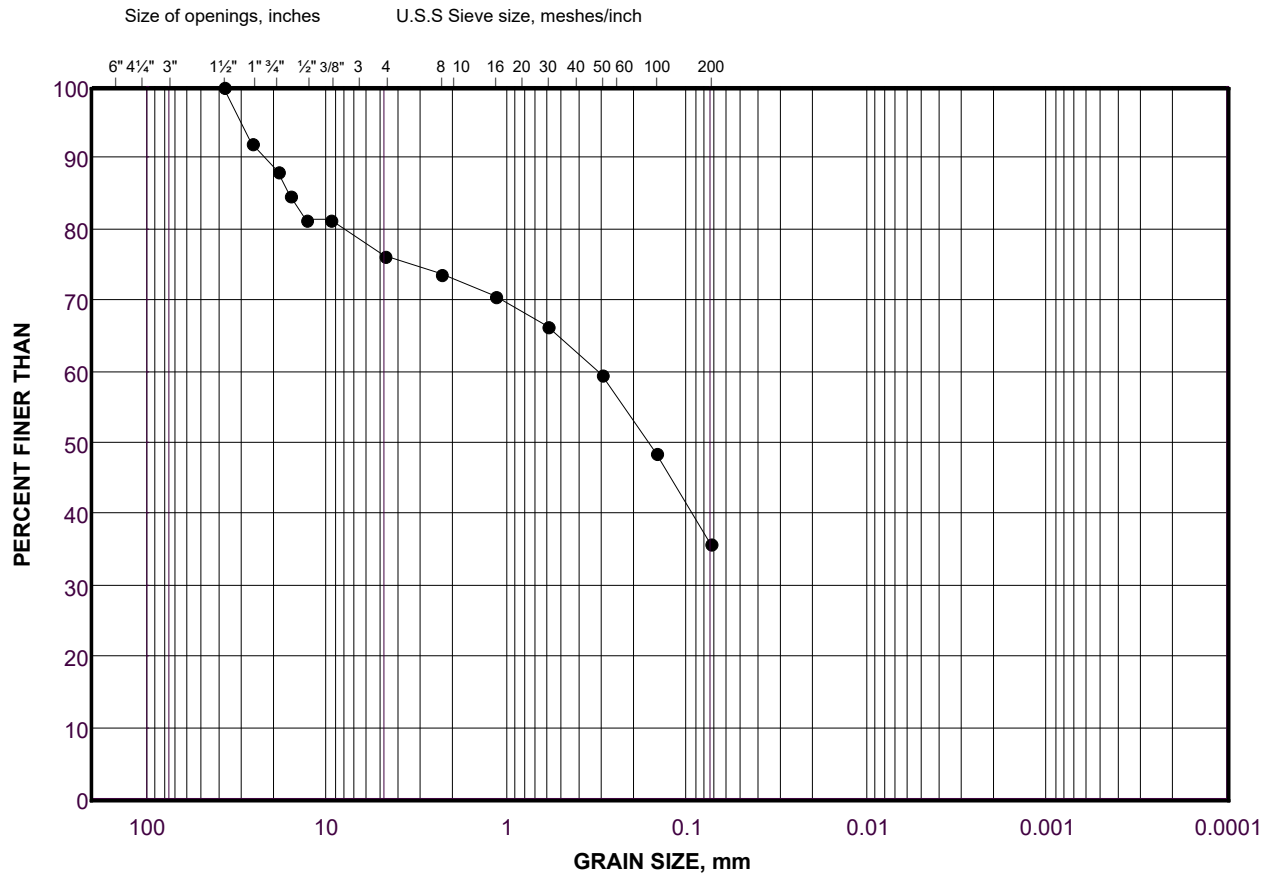
Depth 1.5
Units Imperial
Testing Date 3/28/22 2:45:39 PM
Tested By Sieve - AM
LabID 22-643

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |
| SIZE | | | | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|------------|
| • | MW 21-01 | 1A | 0.0 - 1.50 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 3698.2(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 37.5mm | 0.00 | 0.00 | 37.50 | 100.0 |
| 26.5mm | 138.40 | 3.74 | 26.50 | 96.3 |
| 19.0mm | 184.40 | 1.24 | 19.00 | 95.0 |
| 16mm | 254.50 | 1.90 | 16.00 | 93.1 |
| 13.2mm | 261.10 | 0.18 | 13.20 | 92.9 |
| 9.5mm | 320.90 | 1.62 | 9.50 | 91.3 |
| 4.75mm | 404.70 | 2.27 | 4.75 | 89.1 |
| PAN | 3286.40 | 89.05 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 10.10 | 2.92 | 2.36 | 86.1 |
| 1.18mm | 20.80 | 3.10 | 1.18 | 83.0 |
| 600µm | 36.40 | 4.51 | 0.60 | 78.5 |
| 300µm | 70.20 | 9.78 | 0.30 | 68.7 |
| 150µm | 126.80 | 16.38 | 0.15 | 52.4 |
| 75µm | 181.70 | 15.89 | 0.08 | 36.5 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-01
Sample Number 1B
Checked By _____

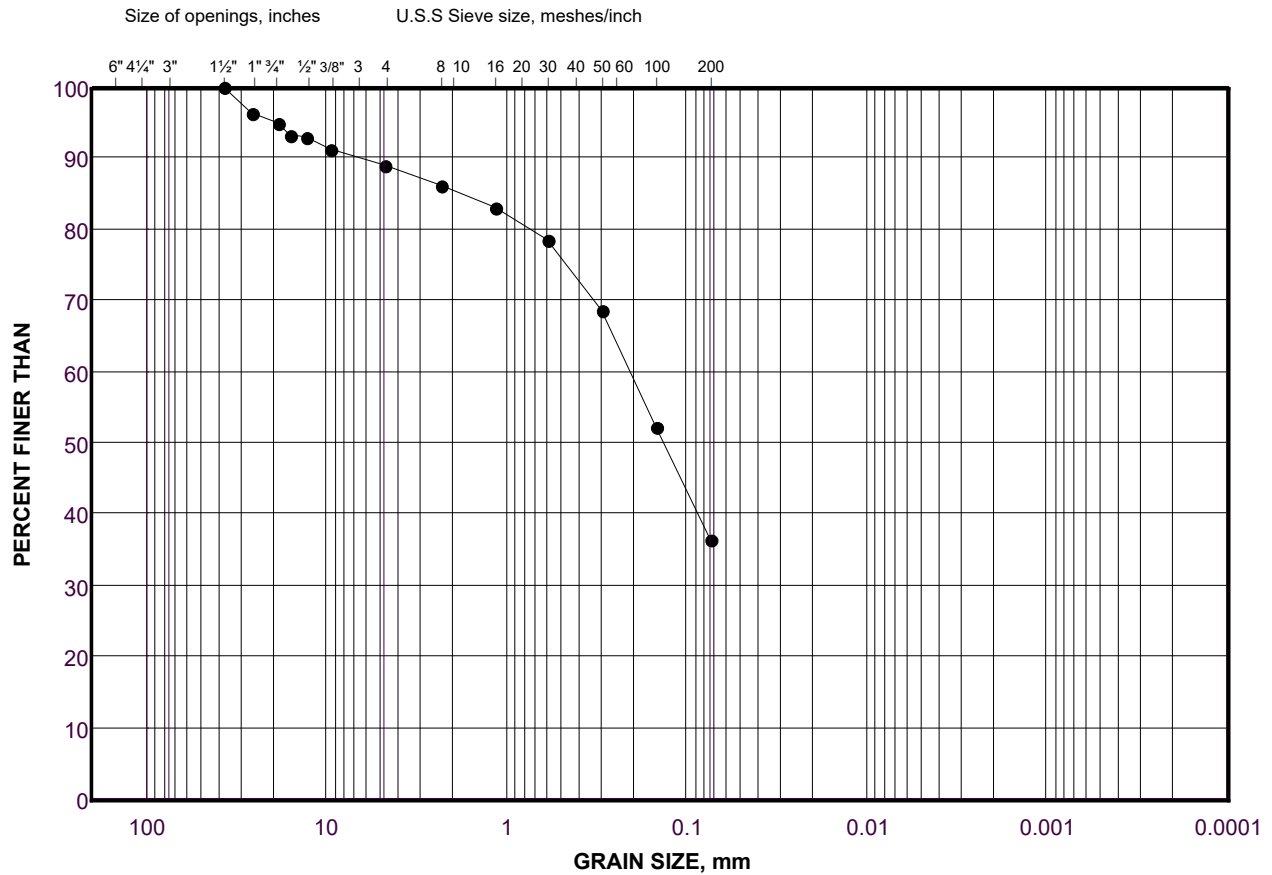
Depth 3
Units Imperial
Testing Date 3/28/22 2:47:45 PM
Tested By Sieve - AM
LabID 22-644

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|----------------|-------------|------|-----------|--------|------|---------------------|
| COBBLE SIZE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|------------|
| • | MW 21-01 | 1B | 1.50 - 3.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 17676.9(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 631.00 | 3.57 | 75.00 | 96.4 |
| 63mm | 631.00 | 0.00 | 63.00 | 96.4 |
| 53mm | 1213.20 | 3.29 | 53.00 | 93.1 |
| 37.5mm | 2374.10 | 6.57 | 37.50 | 86.6 |
| 26.5mm | 3549.80 | 6.65 | 26.50 | 79.9 |
| 19.0mm | 4540.30 | 5.60 | 19.00 | 74.3 |
| 16mm | 5041.30 | 2.83 | 16.00 | 71.5 |
| 13.2mm | 5495.20 | 2.57 | 13.20 | 68.9 |
| 9.5mm | 6320.10 | 4.67 | 9.50 | 64.3 |
| 4.75mm | 7570.60 | 7.07 | 4.75 | 57.2 |
| PAN | 10106.30 | 57.18 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 29.70 | 5.75 | 2.36 | 51.4 |
| 1.18mm | 60.30 | 5.92 | 1.18 | 45.5 |
| 600µm | 90.40 | 5.83 | 0.60 | 39.7 |
| 300µm | 124.10 | 6.52 | 0.30 | 33.2 |
| 150µm | 158.10 | 6.58 | 0.15 | 26.6 |
| 75µm | 188.90 | 5.96 | 0.08 | 20.6 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-01
Sample Number 3
Checked By _____

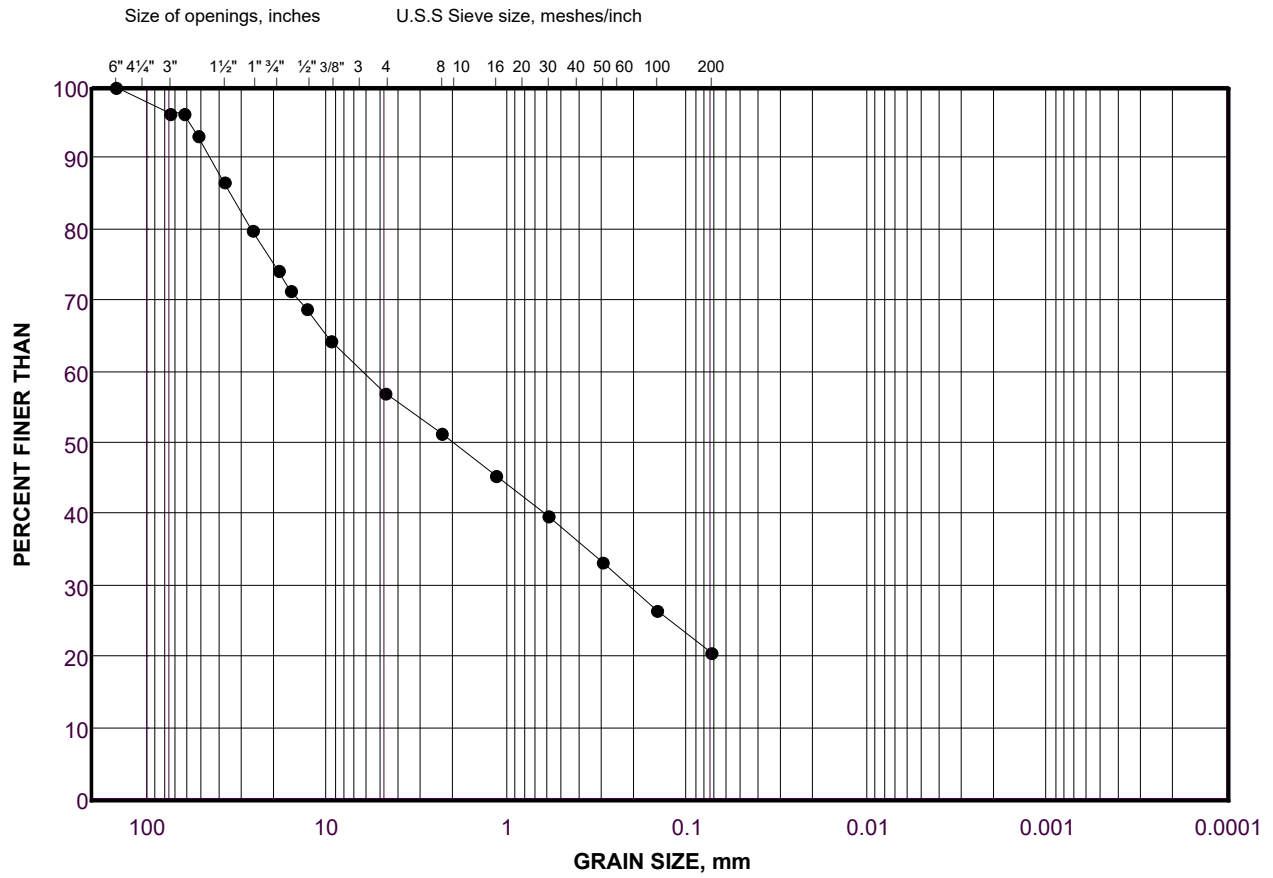
Depth 14
Units Imperial
Testing Date 3/28/22 2:56:35 PM
Tested By Sieve - AM
LabID 22-203

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|------------|
| ● | MW 21-01 | 3 | 8.0 - 14.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 15210(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1972.00 | 12.97 | 75.00 | 87.0 |
| 63mm | 2622.00 | 4.27 | 63.00 | 82.8 |
| 53mm | 2622.00 | 0.00 | 53.00 | 82.8 |
| 37.5mm | 3034.00 | 2.71 | 37.50 | 80.1 |
| 26.5mm | 3592.00 | 3.67 | 26.50 | 76.4 |
| 19.0mm | 4136.00 | 3.58 | 19.00 | 72.8 |
| 16mm | 4386.00 | 1.64 | 16.00 | 71.2 |
| 13.2mm | 4680.00 | 1.93 | 13.20 | 69.2 |
| 9.5mm | 5264.00 | 3.84 | 9.50 | 65.4 |
| 4.75mm | 6362.00 | 7.22 | 4.75 | 58.2 |
| PAN | 8848.00 | 58.17 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 27.81 | 4.98 | 2.36 | 53.2 |
| 1.18mm | 59.81 | 5.73 | 1.18 | 47.5 |
| 600µm | 95.11 | 6.32 | 0.60 | 41.1 |
| 300µm | 134.29 | 7.02 | 0.30 | 34.1 |
| 150µm | 171.66 | 6.69 | 0.15 | 27.4 |
| 75µm | 205.34 | 6.03 | 0.08 | 21.4 |

Project Number 21476582
Project Task 1000
Borehole Number MW21-01
Sample Number 4
Checked By _____

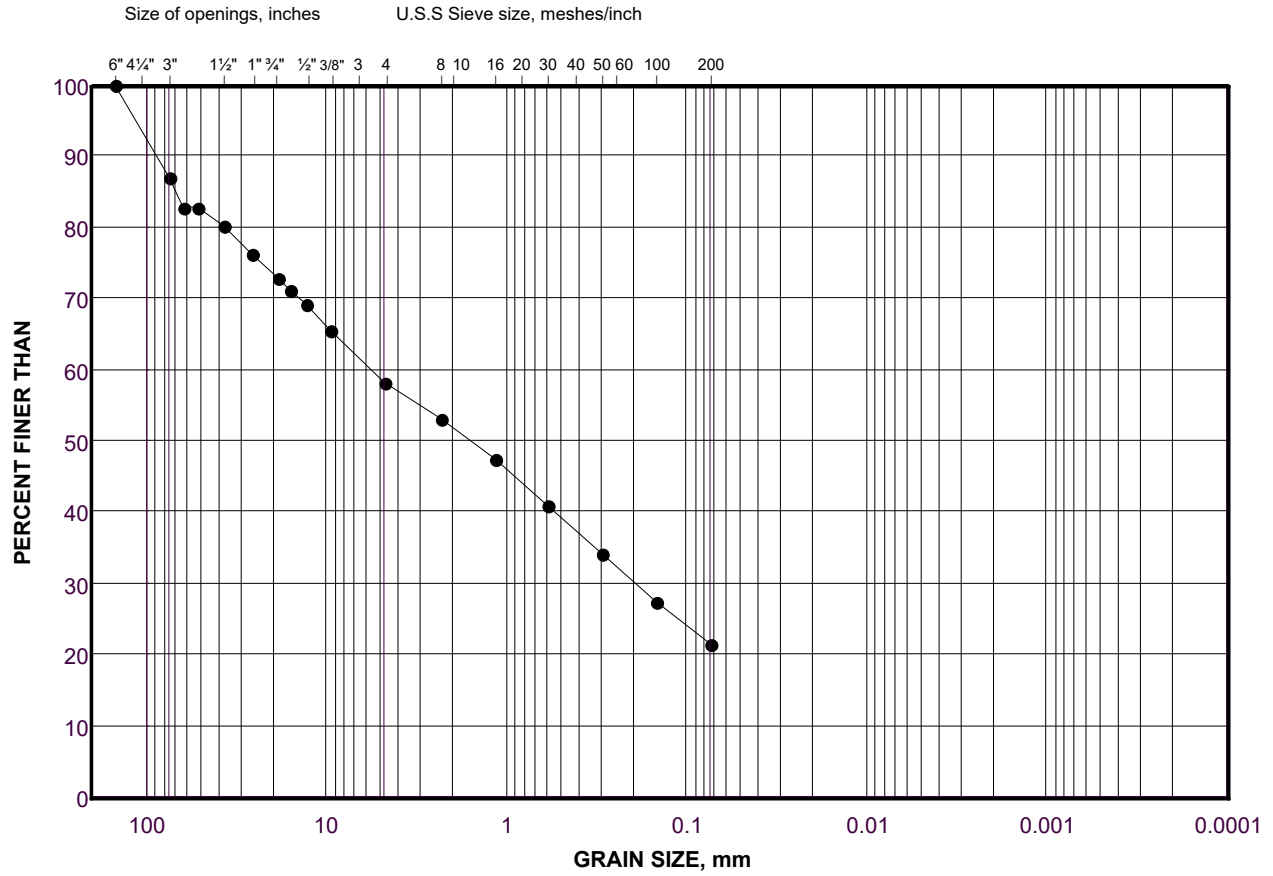
Depth 19
Units Imperial
Testing Date 3/28/22 3:00:15 PM
Tested By Sieve - JB
LabID 22-592

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW21-01 | 4 | 14.0 - 19.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 8426(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 452.00 | 5.36 | 53.00 | 94.6 |
| 37.5mm | 452.00 | 0.00 | 37.50 | 94.6 |
| 26.5mm | 1010.00 | 6.62 | 26.50 | 88.0 |
| 19.0mm | 1488.00 | 5.67 | 19.00 | 82.4 |
| 16mm | 1704.00 | 2.56 | 16.00 | 79.8 |
| 13.2mm | 1878.00 | 2.07 | 13.20 | 77.7 |
| 9.5mm | 2316.00 | 5.20 | 9.50 | 72.5 |
| 4.75mm | 2920.00 | 7.17 | 4.75 | 65.4 |
| PAN | 5506.00 | 65.35 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 30.20 | 5.85 | 2.36 | 59.5 |
| 1.18mm | 69.58 | 7.63 | 1.18 | 51.9 |
| 600µm | 112.00 | 8.22 | 0.60 | 43.7 |
| 300µm | 158.24 | 8.96 | 0.30 | 34.7 |
| 150µm | 199.52 | 8.00 | 0.15 | 26.7 |
| 75µm | 228.53 | 5.62 | 0.08 | 21.1 |

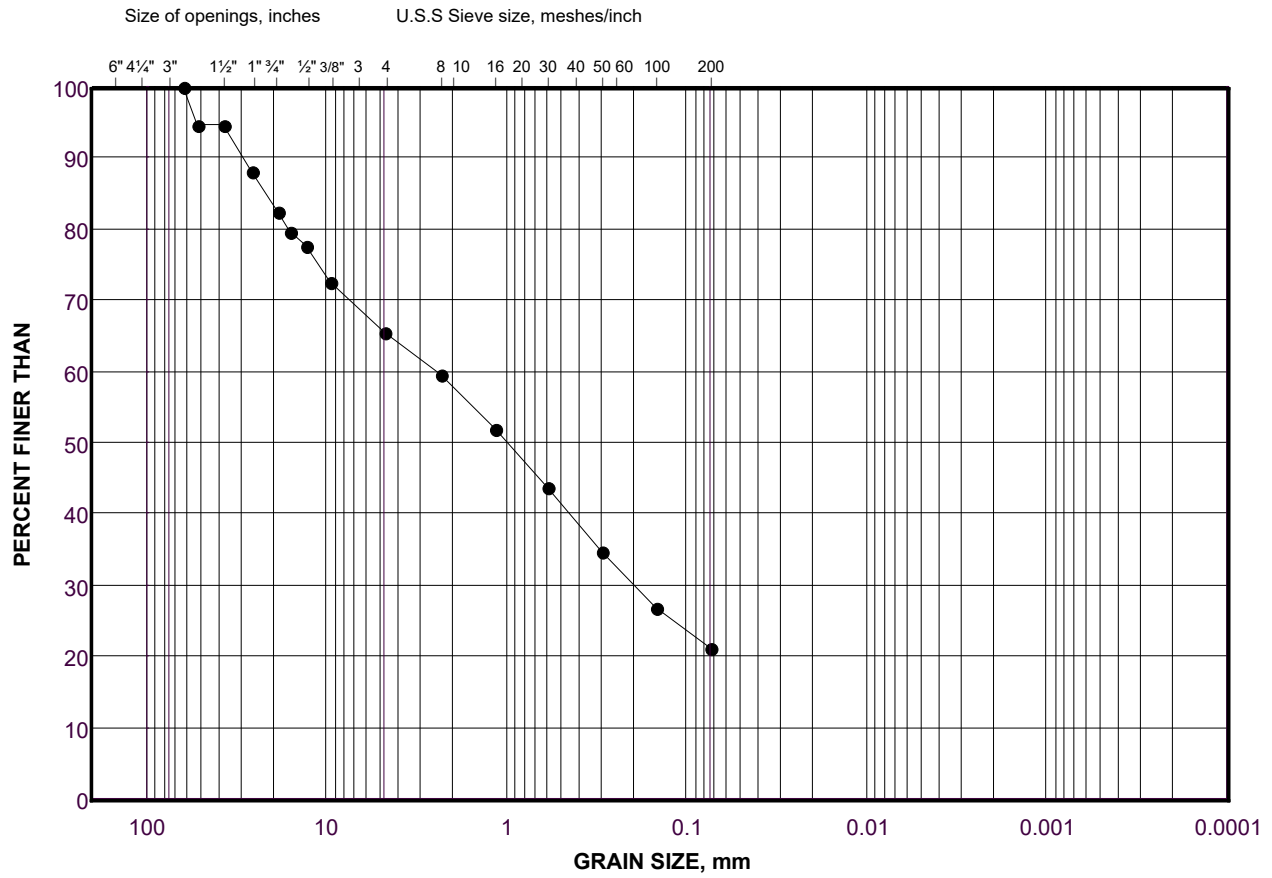
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 24 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-01 | Testing Date | 3/28/22 3:02:18 PM |
| Sample Number | 5 | Tested By | Sieve - JB |
| Checked By | _____ | LabID | 22-593 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | MW 21-01 | 5 | 19.0 - 24.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 16108.6(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 597.00 | 3.71 | 63.00 | 96.3 |
| 53mm | 1337.90 | 4.60 | 53.00 | 91.7 |
| 37.5mm | 1522.20 | 1.14 | 37.50 | 90.6 |
| 26.5mm | 2781.90 | 7.82 | 26.50 | 82.7 |
| 19.0mm | 3713.70 | 5.78 | 19.00 | 77.0 |
| 16mm | 4276.40 | 3.49 | 16.00 | 73.5 |
| 13.2mm | 4771.10 | 3.07 | 13.20 | 70.4 |
| 9.5mm | 5776.90 | 6.24 | 9.50 | 64.1 |
| 4.75mm | 7402.60 | 10.09 | 4.75 | 54.1 |
| PAN | 8669.20 | 54.06 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 38.80 | 7.96 | 2.36 | 46.1 |
| 1.18mm | 75.70 | 7.57 | 1.18 | 38.5 |
| 600µm | 104.10 | 5.83 | 0.60 | 32.7 |
| 300µm | 130.70 | 5.46 | 0.30 | 27.2 |
| 150µm | 160.50 | 6.11 | 0.15 | 21.1 |
| 75µm | 194.60 | 7.00 | 0.08 | 14.1 |

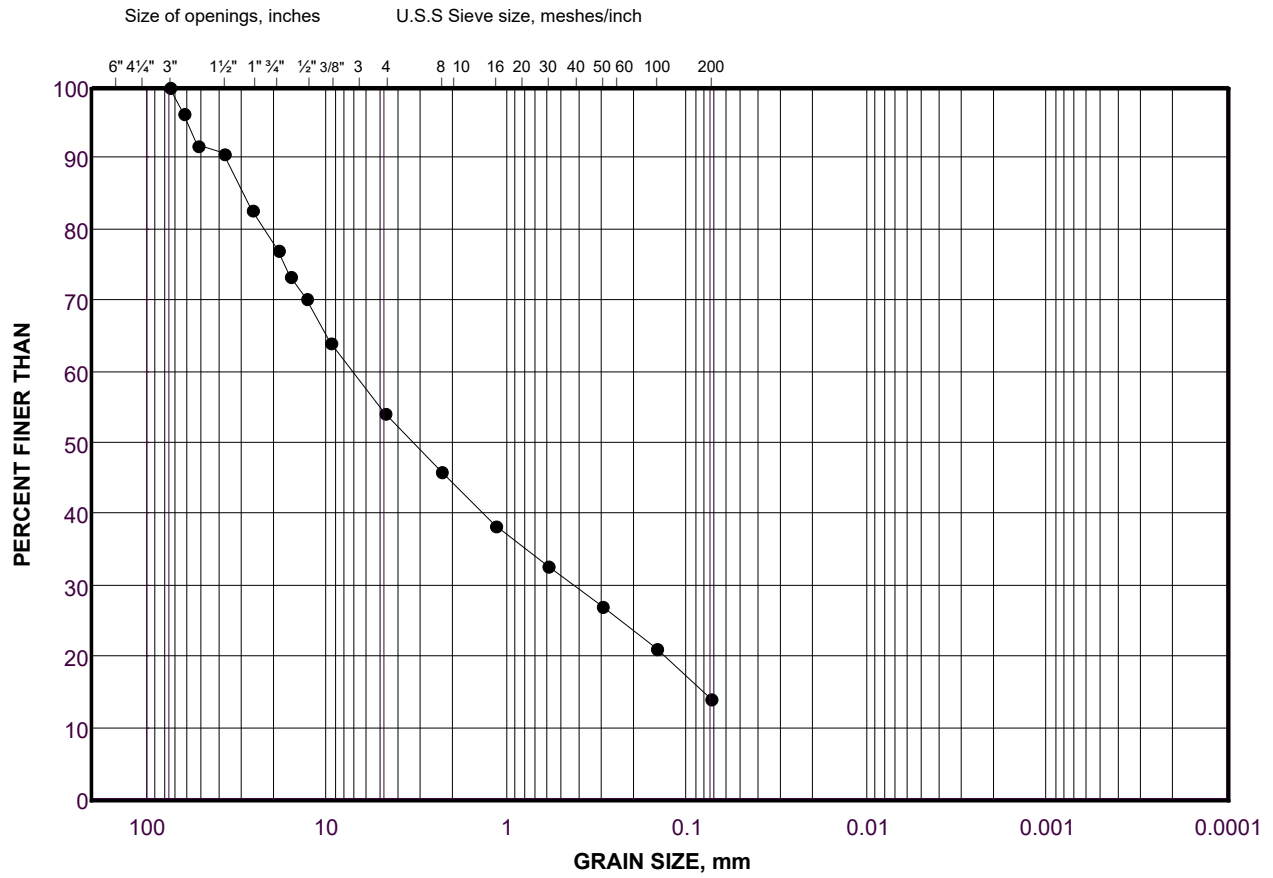
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 29 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-01 | Testing Date | 3/28/22 3:04:17 PM |
| Sample Number | 6 | Tested By | Sieve - |
| Checked By | _____ | LabID | 22-568 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-01 | 6 | 24.0 - 29.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 18388(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 538.00 | 2.93 | 63.00 | 97.1 |
| 53mm | 538.00 | 0.00 | 53.00 | 97.1 |
| 37.5mm | 2186.00 | 8.96 | 37.50 | 88.1 |
| 26.5mm | 3986.00 | 9.79 | 26.50 | 78.3 |
| 19.0mm | 5282.00 | 7.05 | 19.00 | 71.3 |
| 16mm | 5876.00 | 3.23 | 16.00 | 68.0 |
| 13.2mm | 6414.00 | 2.93 | 13.20 | 65.1 |
| 9.5mm | 7546.00 | 6.16 | 9.50 | 59.0 |
| 4.75mm | 9436.00 | 10.28 | 4.75 | 48.7 |
| PAN | 8952.00 | 48.67 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 102.99 | 14.77 | 2.36 | 33.9 |
| 1.18mm | 149.24 | 6.63 | 1.18 | 27.3 |
| 600µm | 185.31 | 5.17 | 0.60 | 22.1 |
| 300µm | 209.39 | 3.45 | 0.30 | 18.7 |
| 150µm | 226.95 | 2.52 | 0.15 | 16.1 |
| 75µm | 246.10 | 2.75 | 0.08 | 13.4 |

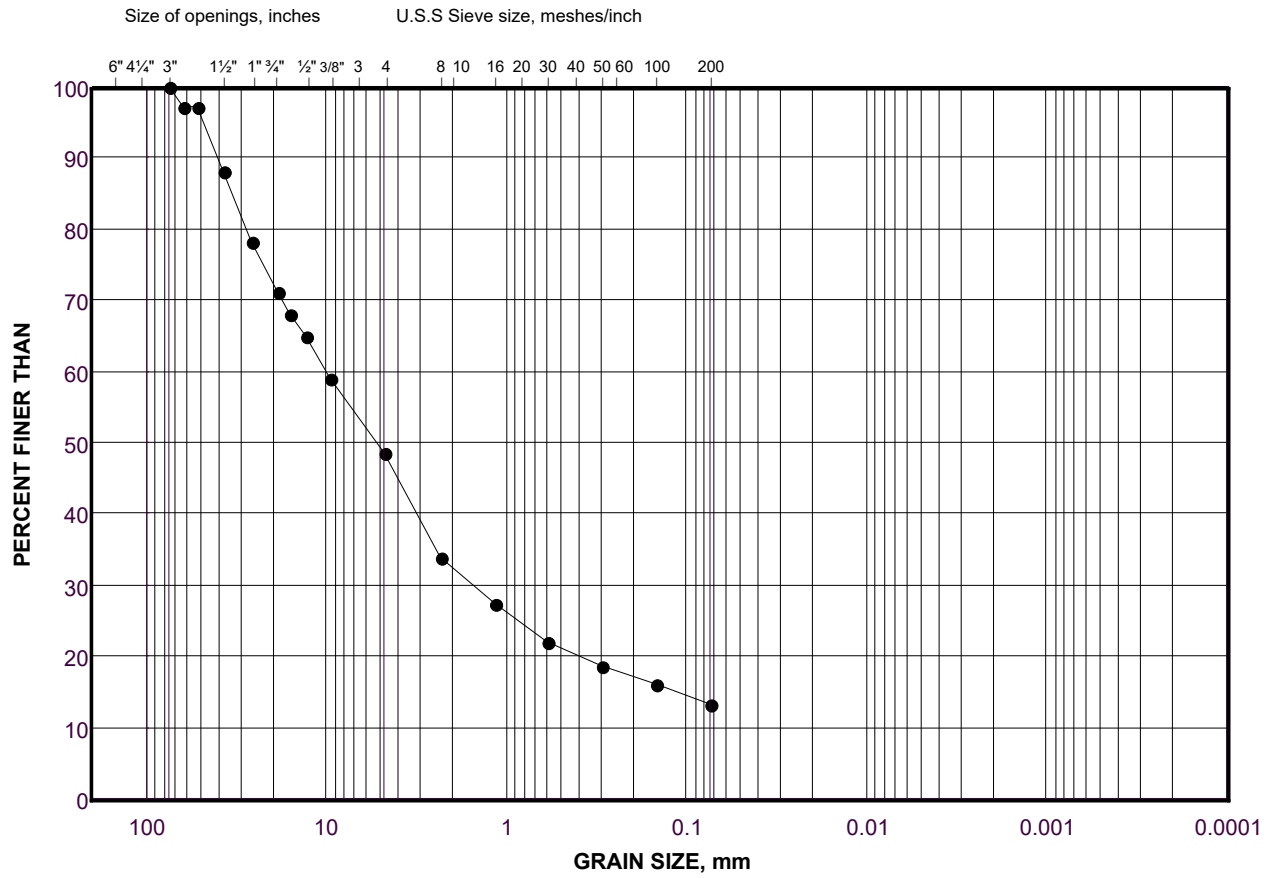
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 34 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-01 | Testing Date | 3/28/22 3:08:14 PM |
| Sample Number | 7 | Tested By | Sieve - JB |
| Checked By | _____ | LabID | 22-594 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-01 | 7 | 29.0 - 34.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 16218(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 972.00 | 5.99 | 75.00 | 94.0 |
| 63mm | 972.00 | 0.00 | 63.00 | 94.0 |
| 53mm | 972.00 | 0.00 | 53.00 | 94.0 |
| 37.5mm | 1762.00 | 4.87 | 37.50 | 89.1 |
| 26.5mm | 2660.00 | 5.54 | 26.50 | 83.6 |
| 19.0mm | 3336.00 | 4.17 | 19.00 | 79.4 |
| 16mm | 3606.00 | 1.66 | 16.00 | 77.8 |
| 13.2mm | 3980.00 | 2.31 | 13.20 | 75.5 |
| 9.5mm | 4606.00 | 3.86 | 9.50 | 71.6 |
| 4.75mm | 5860.00 | 7.73 | 4.75 | 63.9 |
| PAN | 10358.00 | 63.87 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 30.46 | 5.90 | 2.36 | 58.0 |
| 1.18mm | 71.88 | 8.02 | 1.18 | 50.0 |
| 600µm | 130.02 | 11.26 | 0.60 | 38.7 |
| 300µm | 180.99 | 9.87 | 0.30 | 28.8 |
| 150µm | 209.18 | 5.46 | 0.15 | 23.4 |
| 75µm | 236.65 | 5.32 | 0.08 | 18.0 |

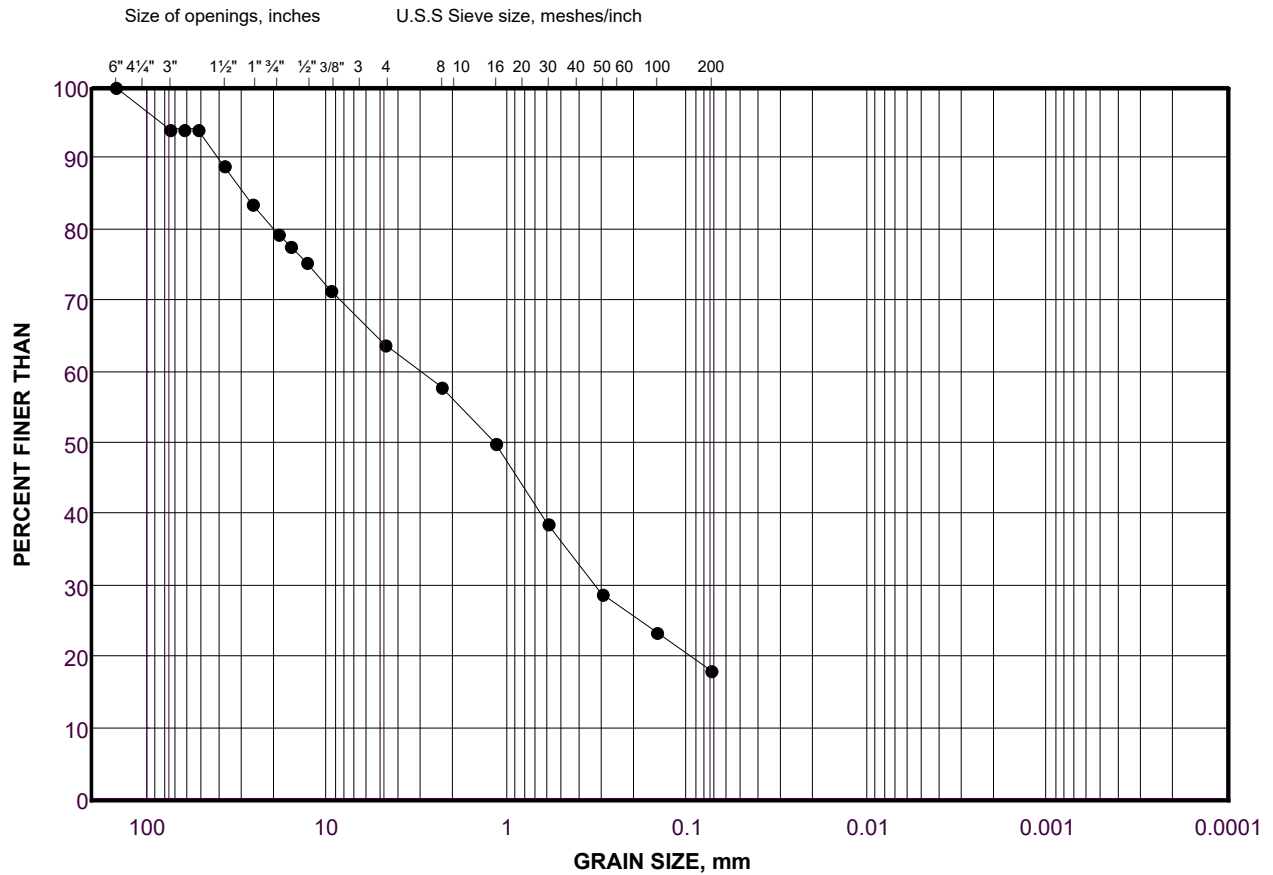
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 39 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-01 | Testing Date | 3/28/22 3:30:22 PM |
| Sample Number | 8 | Tested By | Sieve - JB |
| Checked By | _____ | LabID | 22-595 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-01 | 8 | 34.0 - 39.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 13353(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1833.60 | 13.73 | 75.00 | 86.3 |
| 63mm | 2274.60 | 3.30 | 63.00 | 83.0 |
| 53mm | 2274.60 | 0.00 | 53.00 | 83.0 |
| 37.5mm | 3290.80 | 7.61 | 37.50 | 75.4 |
| 26.5mm | 4369.70 | 8.08 | 26.50 | 67.3 |
| 19.0mm | 5140.50 | 5.77 | 19.00 | 61.5 |
| 16mm | 5473.80 | 2.50 | 16.00 | 59.0 |
| 13.2mm | 5780.70 | 2.30 | 13.20 | 56.7 |
| 9.5mm | 6418.90 | 4.78 | 9.50 | 51.9 |
| 4.75mm | 7523.40 | 8.27 | 4.75 | 43.7 |
| PAN | 5814.10 | 43.66 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 35.50 | 5.69 | 2.36 | 38.0 |
| 1.18mm | 77.50 | 6.73 | 1.18 | 31.2 |
| 600µm | 120.90 | 6.96 | 0.60 | 24.3 |
| 300µm | 151.70 | 4.94 | 0.30 | 19.3 |
| 150µm | 171.10 | 3.11 | 0.15 | 16.2 |
| 75µm | 191.50 | 3.27 | 0.08 | 13.0 |

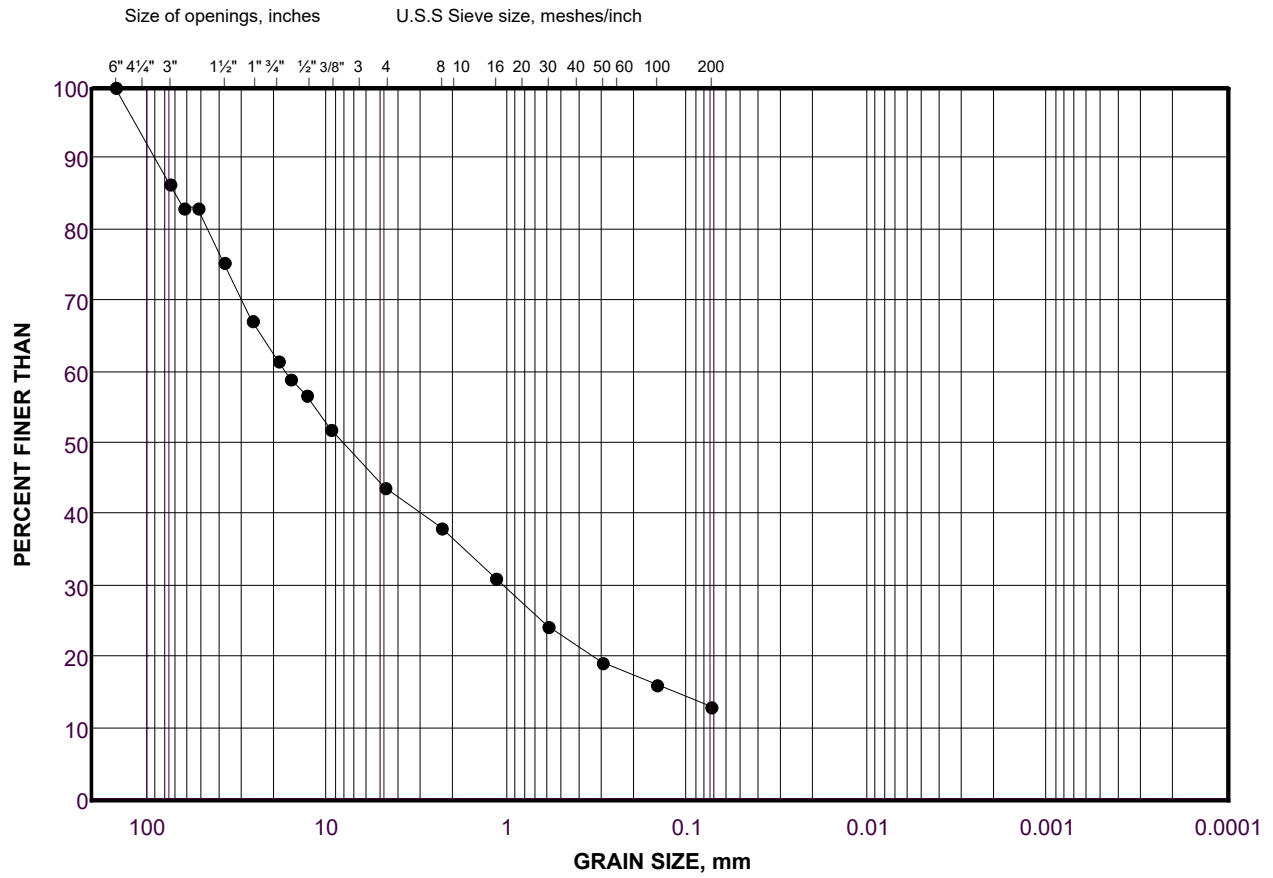
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 44 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-01 | Testing Date | 3/28/22 3:35:37 PM |
| Sample Number | 9A | Tested By | Sieve - AM |
| Checked By | _____ | LabID | 22-217 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | MW 21-01 | 9A | 41.0 - 44.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 6873.2(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 37.5mm | 0.00 | 0.00 | 37.50 | 100.0 |
| 26.5mm | 0.00 | 0.00 | 26.50 | 100.0 |
| 19.0mm | 131.30 | 1.91 | 19.00 | 98.1 |
| 16mm | 269.60 | 2.01 | 16.00 | 96.1 |
| 13.2mm | 360.20 | 1.32 | 13.20 | 94.8 |
| 9.5mm | 636.00 | 4.01 | 9.50 | 90.8 |
| 4.75mm | 1297.30 | 9.62 | 4.75 | 81.1 |
| PAN | 5565.90 | 81.13 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 26.60 | 7.24 | 2.36 | 73.9 |
| 1.18mm | 54.60 | 7.62 | 1.18 | 66.3 |
| 600µm | 86.10 | 8.58 | 0.60 | 57.7 |
| 300µm | 118.60 | 8.85 | 0.30 | 48.8 |
| 150µm | 150.20 | 8.60 | 0.15 | 40.2 |
| 75µm | 180.00 | 8.11 | 0.08 | 32.1 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-01
Sample Number 9B
Checked By _____

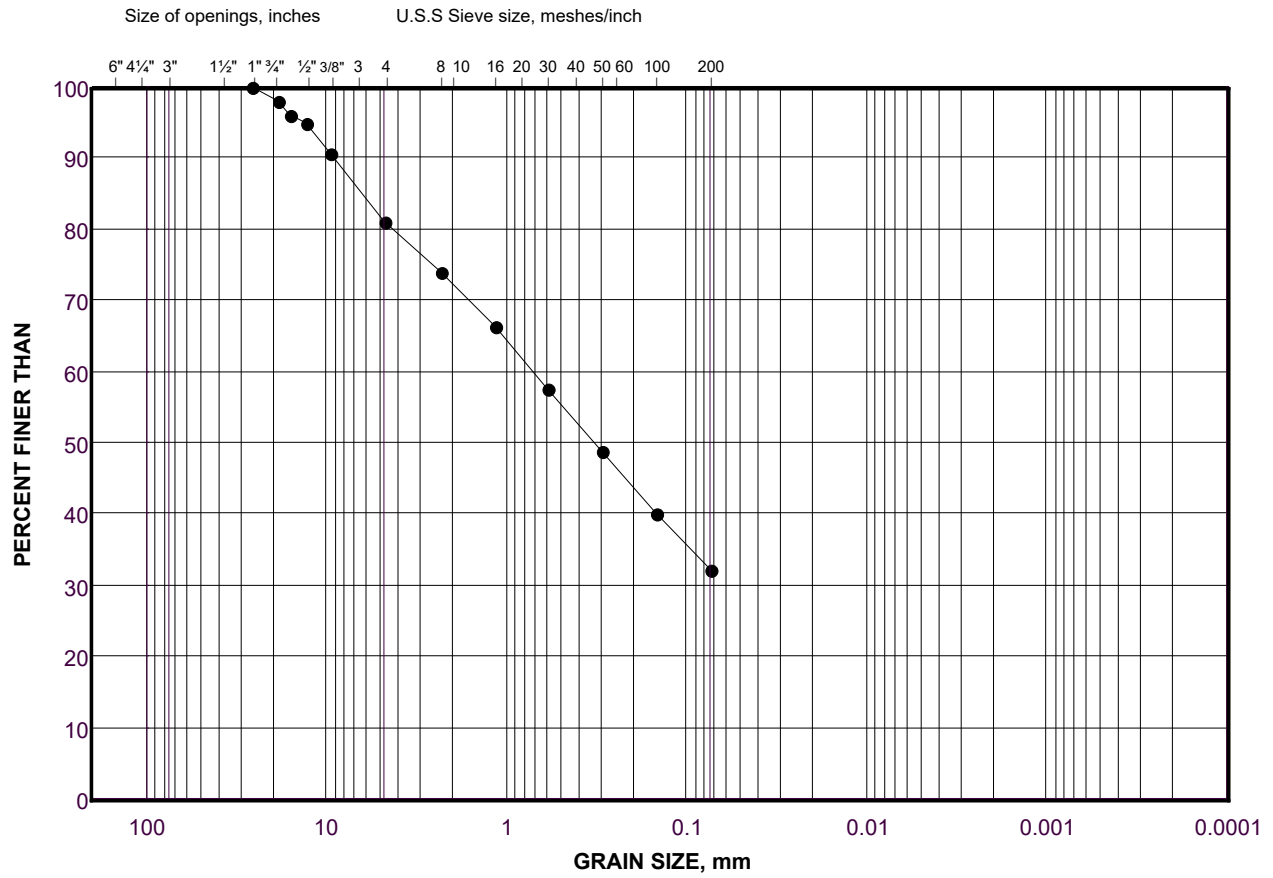
Depth 41
Units Imperial
Testing Date 3/28/22 3:33:56 PM
Tested By Sieve - AM
LabID 22-206

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-01 | 9B | 39.0 - 41.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 11077.6(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 2660.50 | 24.02 | 75.00 | 76.0 |
| 63mm | 2660.50 | 0.00 | 63.00 | 76.0 |
| 53mm | 3220.80 | 5.06 | 53.00 | 70.9 |
| 37.5mm | 4784.90 | 14.12 | 37.50 | 56.8 |
| 26.5mm | 5587.30 | 7.24 | 26.50 | 49.6 |
| 19.0mm | 6347.80 | 6.87 | 19.00 | 42.7 |
| 16mm | 6646.90 | 2.70 | 16.00 | 40.0 |
| 13.2mm | 6928.80 | 2.54 | 13.20 | 37.5 |
| 9.5mm | 7483.60 | 5.01 | 9.50 | 32.4 |
| 4.75mm | 8288.80 | 7.27 | 4.75 | 25.2 |
| PAN | 2788.80 | 25.17 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 54.40 | 4.94 | 2.36 | 20.2 |
| 1.18mm | 104.00 | 4.51 | 1.18 | 15.7 |
| 600µm | 150.00 | 4.18 | 0.60 | 11.5 |
| 300µm | 188.30 | 3.48 | 0.30 | 8.1 |
| 150µm | 211.40 | 2.10 | 0.15 | 6.0 |
| 75µm | 228.50 | 1.55 | 0.08 | 4.4 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-01
Sample Number 10
Checked By _____

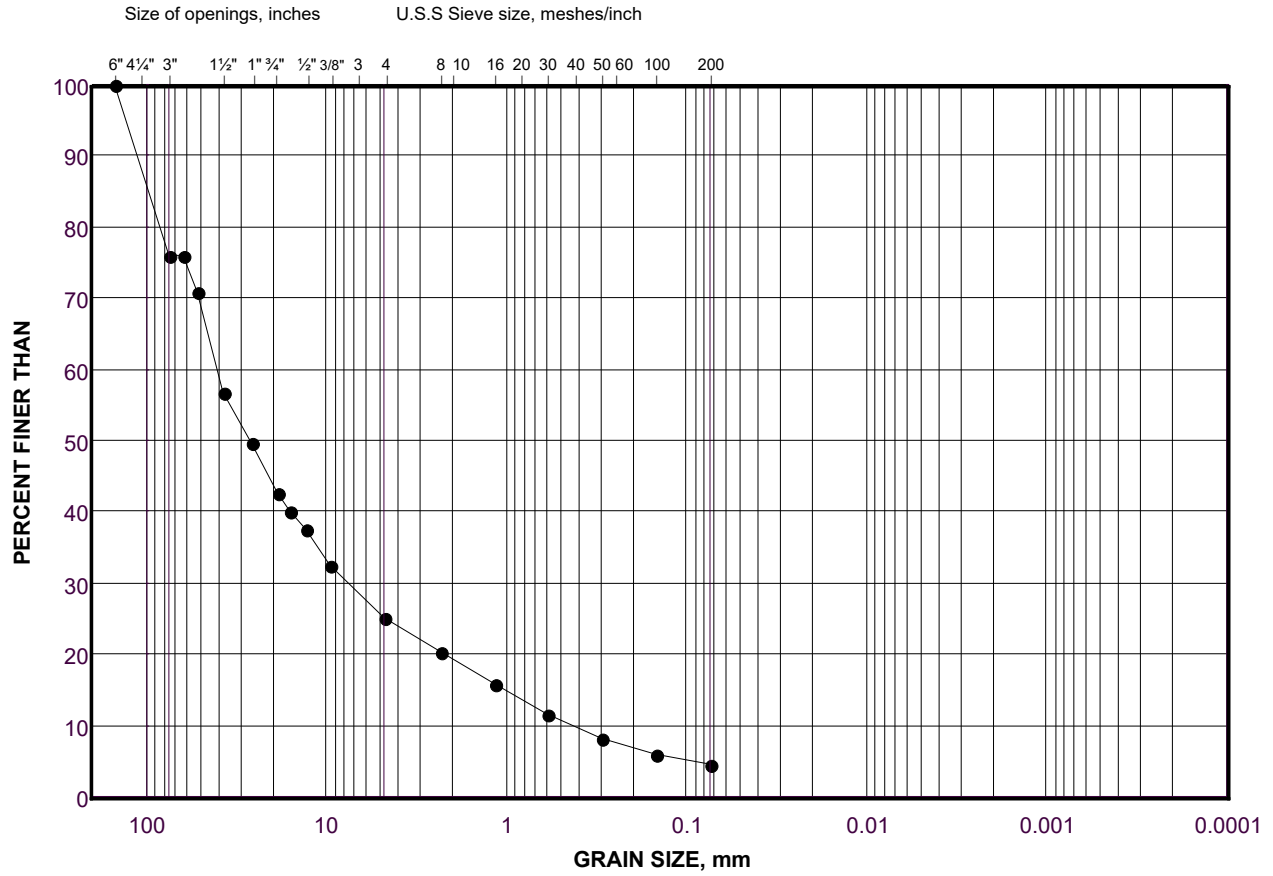
Depth 49
Units Metric
Testing Date 3/28/22 3:38:54 PM
Tested By Sieve - LB
LabID 22-556

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(m) |
|--------|----------|--------|-------------|
| ● | MW 21-01 | 10 | 44.0 - 49.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 20108.5(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1957.60 | 9.74 | 75.00 | 90.3 |
| 63mm | 1957.60 | 0.00 | 63.00 | 90.3 |
| 53mm | 4052.80 | 10.42 | 53.00 | 79.8 |
| 37.5mm | 7126.90 | 15.29 | 37.50 | 64.6 |
| 26.5mm | 9877.10 | 13.68 | 26.50 | 50.9 |
| 19.0mm | 11419.60 | 7.67 | 19.00 | 43.2 |
| 16mm | 12087.30 | 3.32 | 16.00 | 39.9 |
| 13.2mm | 12634.60 | 2.72 | 13.20 | 37.2 |
| 9.5mm | 13696.80 | 5.28 | 9.50 | 31.9 |
| 4.75mm | 15159.80 | 7.28 | 4.75 | 24.6 |
| PAN | 4936.50 | 24.60 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 80.30 | 6.39 | 2.36 | 18.2 |
| 1.18mm | 138.90 | 4.67 | 1.18 | 13.5 |
| 600µm | 223.80 | 6.76 | 0.60 | 6.8 |
| 300µm | 260.90 | 2.95 | 0.30 | 3.8 |
| 150µm | 276.80 | 1.27 | 0.15 | 2.6 |
| 75µm | 285.50 | 0.69 | 0.08 | 1.9 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-01
Sample Number 11
Checked By _____

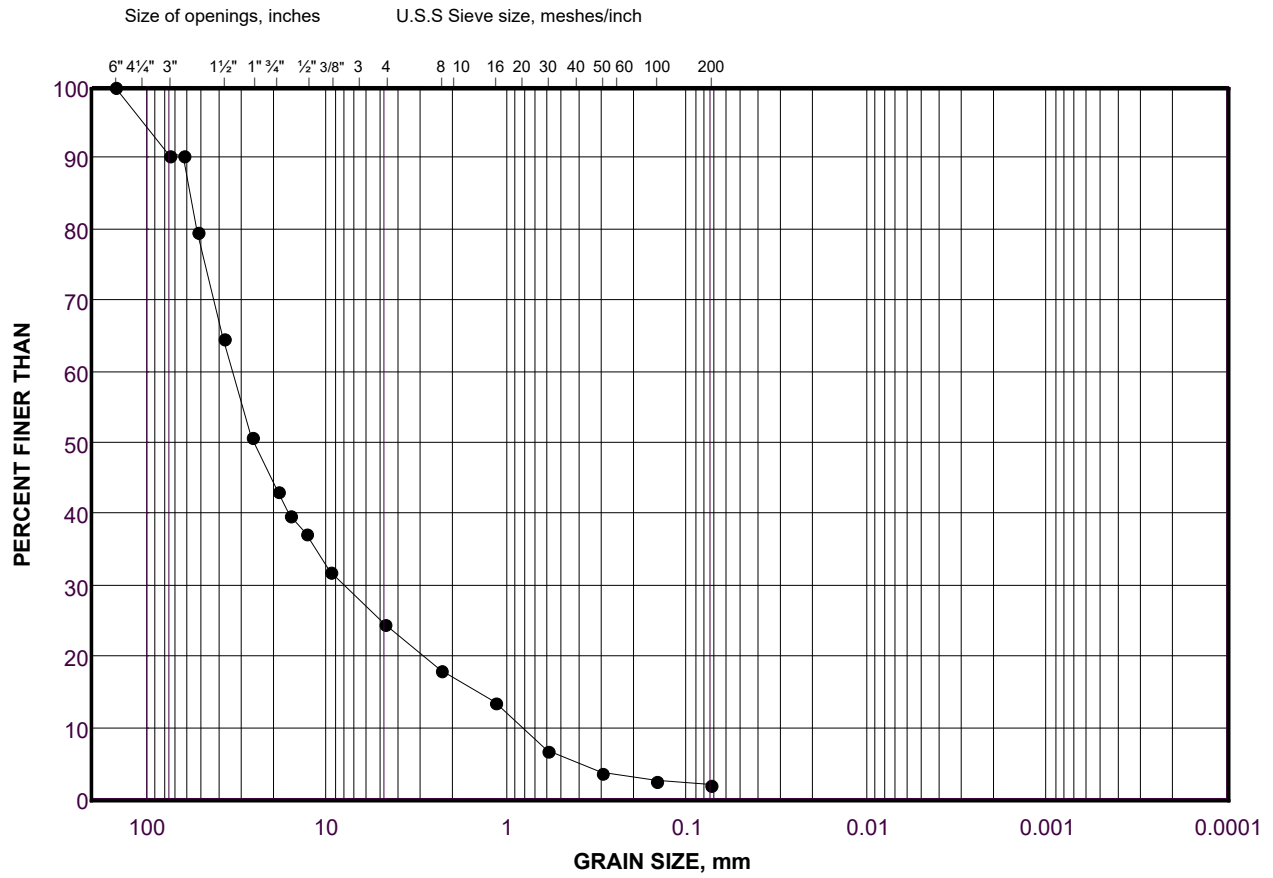
Depth 54
Units Imperial
Testing Date 3/28/22 3:50:27 PM
Tested By Sieve - LB
LabID 22-201

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | MW 21-01 | 11 | 49.0 - 54.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 13932.1(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 337.70 | 2.42 | 53.00 | 97.6 |
| 37.5mm | 2017.70 | 12.06 | 37.50 | 85.5 |
| 26.5mm | 3682.30 | 11.95 | 26.50 | 73.6 |
| 19.0mm | 4831.40 | 8.25 | 19.00 | 65.3 |
| 16mm | 5509.50 | 4.87 | 16.00 | 60.5 |
| 13.2mm | 6093.30 | 4.19 | 13.20 | 56.3 |
| 9.5mm | 7444.20 | 9.70 | 9.50 | 46.6 |
| 4.75mm | 9062.90 | 11.62 | 4.75 | 34.9 |
| PAN | 4860.80 | 34.94 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 64.80 | 8.78 | 2.36 | 26.2 |
| 1.18mm | 125.00 | 8.16 | 1.18 | 18.0 |
| 600µm | 172.80 | 6.48 | 0.60 | 11.5 |
| 300µm | 198.10 | 3.43 | 0.30 | 8.1 |
| 150µm | 211.80 | 1.86 | 0.15 | 6.2 |
| 75µm | 223.70 | 1.61 | 0.08 | 4.6 |

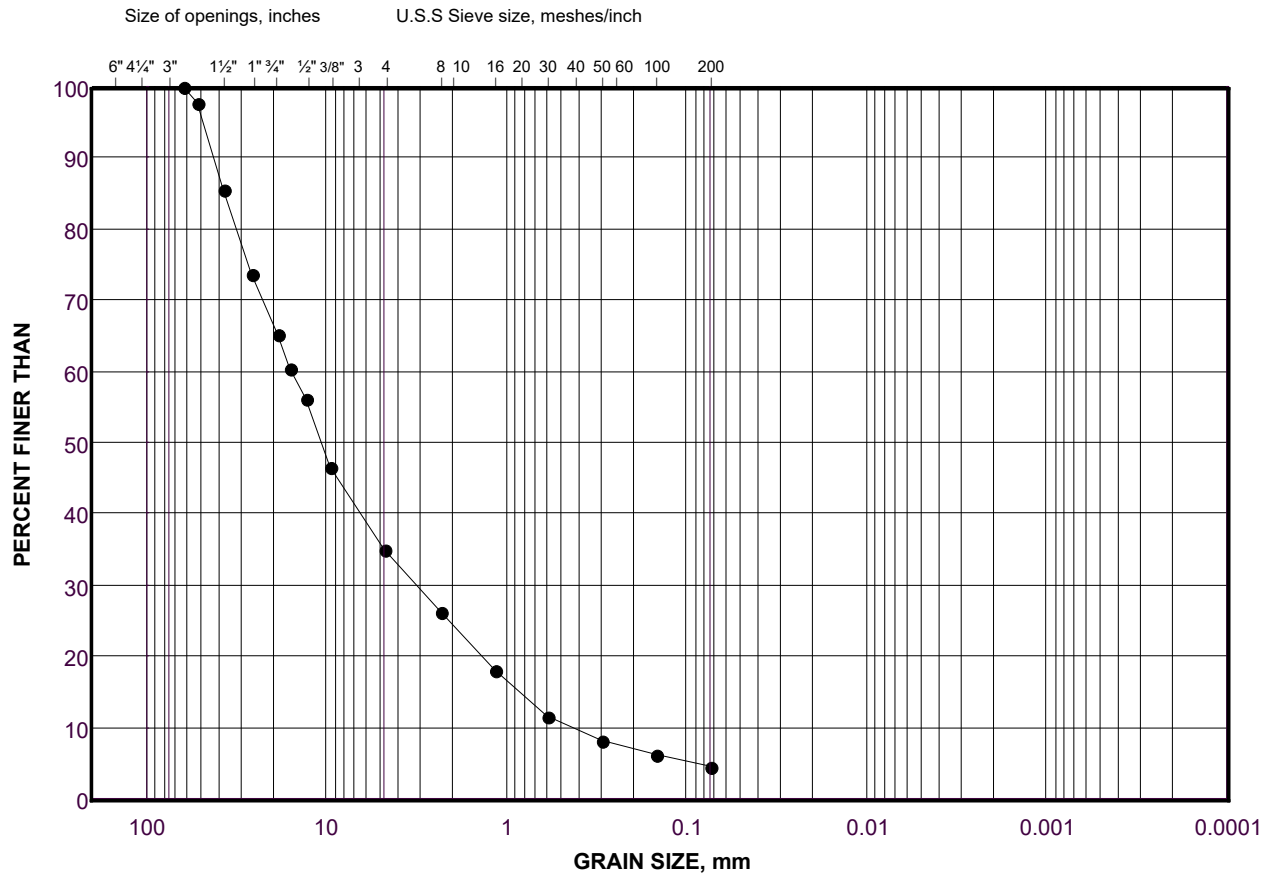
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 59 |
| Project Task | 1000 | Units | Metric |
| Borehole Number | MW 21-01 | Testing Date | 3/28/22 3:55:18 PM |
| Sample Number | 12 | Tested By | Sieve - AM |
| Checked By | _____ | LabID | 22-198 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(m) |
|--------|----------|--------|-------------|
| ● | MW 21-01 | 12 | 54.0 - 59.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 15414(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 618.00 | 4.01 | 75.00 | 96.0 |
| 63mm | 618.00 | 0.00 | 63.00 | 96.0 |
| 53mm | 618.00 | 0.00 | 53.00 | 96.0 |
| 37.5mm | 1432.00 | 5.28 | 37.50 | 90.7 |
| 26.5mm | 2188.00 | 4.90 | 26.50 | 85.8 |
| 19.0mm | 3416.00 | 7.97 | 19.00 | 77.8 |
| 16mm | 3830.00 | 2.69 | 16.00 | 75.2 |
| 13.2mm | 4400.00 | 3.70 | 13.20 | 71.5 |
| 9.5mm | 5594.00 | 7.75 | 9.50 | 63.7 |
| 4.75mm | 7472.00 | 12.18 | 4.75 | 51.5 |
| PAN | 7942.00 | 51.52 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 70.23 | 10.43 | 2.36 | 41.1 |
| 1.18mm | 134.83 | 9.60 | 1.18 | 31.5 |
| 600µm | 199.06 | 9.54 | 0.60 | 22.0 |
| 300µm | 283.35 | 12.52 | 0.30 | 9.4 |
| 150µm | 317.09 | 5.01 | 0.15 | 4.4 |
| 75µm | 329.20 | 1.80 | 0.08 | 2.6 |

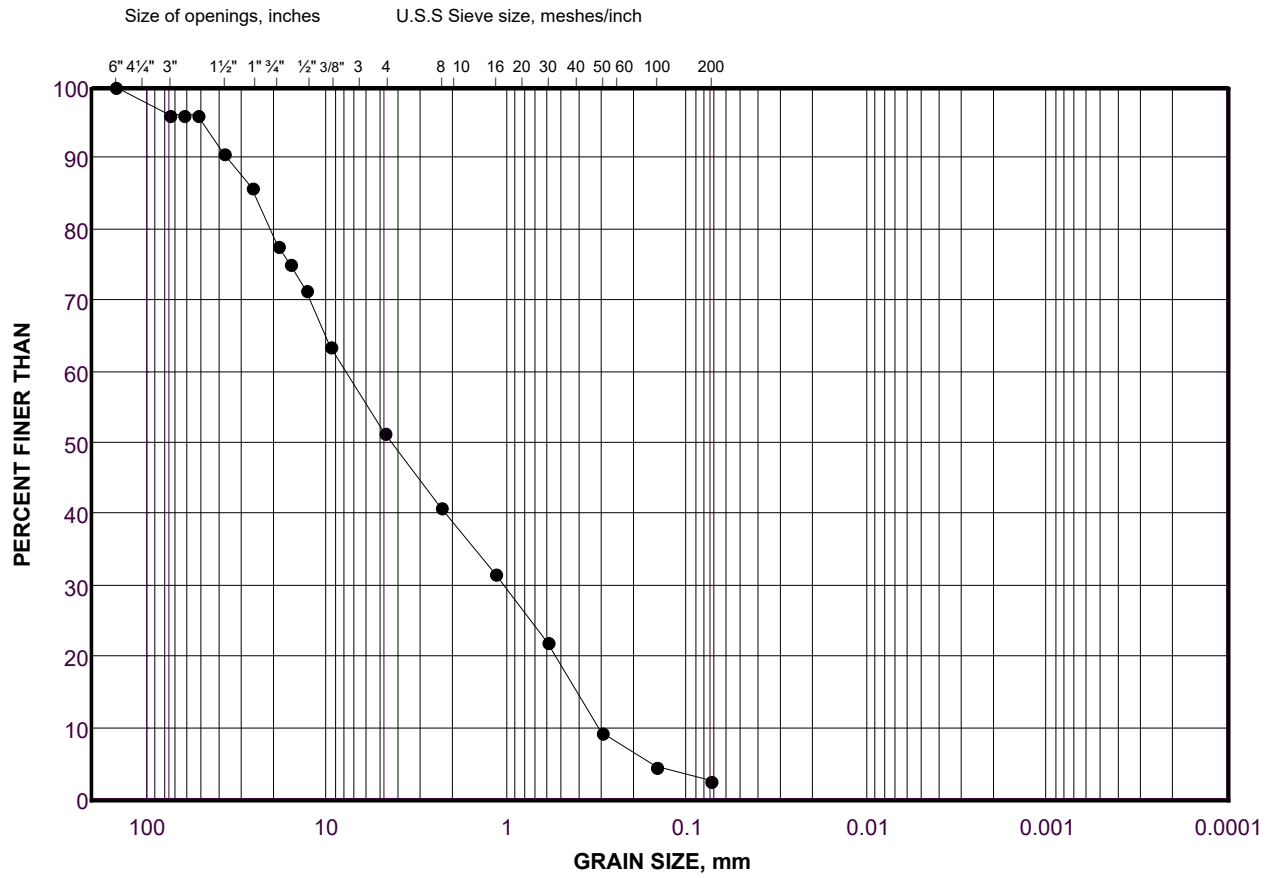
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 64 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-01 | Testing Date | 3/28/22 4:00:22 PM |
| Sample Number | 13 | Tested By | Sieve - JB |
| Checked By | _____ | LabID | 22-596 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|----------------|-------------|------|-----------|--------|------|---------------------|
| COBBLE SIZE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | MW 21-01 | 13 | 59.0 - 64.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 22322(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 2156.00 | 9.66 | 75.00 | 90.3 |
| 63mm | 3214.00 | 4.74 | 63.00 | 85.6 |
| 53mm | 4778.00 | 7.01 | 53.00 | 78.6 |
| 37.5mm | 7004.00 | 9.97 | 37.50 | 68.6 |
| 26.5mm | 8976.00 | 8.83 | 26.50 | 59.8 |
| 19.0mm | 10866.00 | 8.47 | 19.00 | 51.3 |
| 16mm | 11714.00 | 3.80 | 16.00 | 47.5 |
| 13.2mm | 12472.00 | 3.40 | 13.20 | 44.1 |
| 9.5mm | 14144.00 | 7.49 | 9.50 | 36.6 |
| 4.75mm | 16322.00 | 9.76 | 4.75 | 26.9 |
| PAN | 6000.00 | 26.87 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 81.18 | 6.73 | 2.36 | 20.1 |
| 1.18mm | 140.63 | 4.93 | 1.18 | 15.2 |
| 600µm | 192.94 | 4.34 | 0.60 | 10.9 |
| 300µm | 230.92 | 3.15 | 0.30 | 7.7 |
| 150µm | 255.00 | 2.00 | 0.15 | 5.7 |
| 75µm | 271.28 | 1.35 | 0.08 | 4.4 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-01
Sample Number 15
Checked By _____

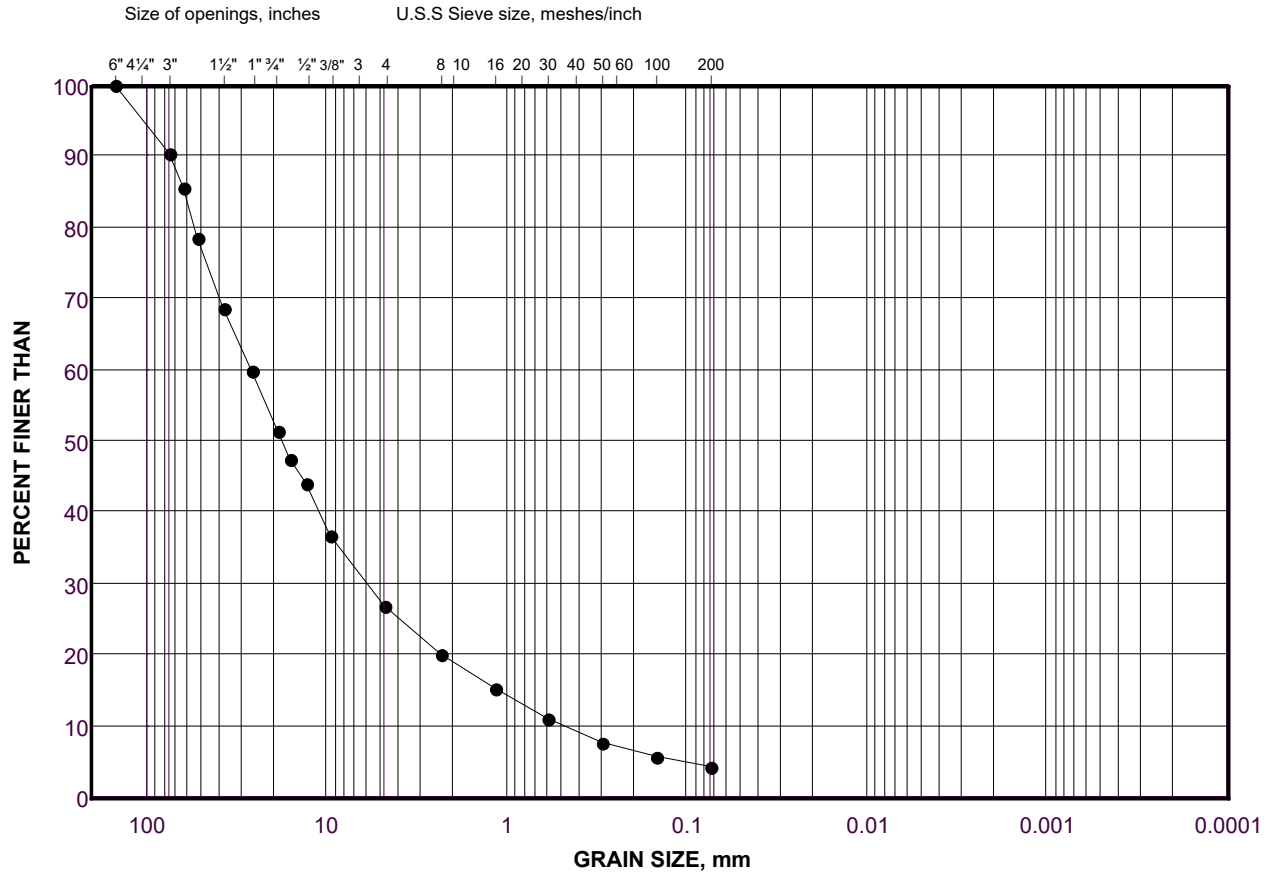
Depth 74
Units Imperial
Testing Date 3/28/22 4:05:38 PM
Tested By Sieve - JB
LabID 22-597

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-01 | 15 | 69.0 - 74.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 2473.4(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 94.40 | 3.82 | 37.50 | 96.2 |
| 26.5mm | 200.40 | 4.29 | 26.50 | 91.9 |
| 19.0mm | 430.60 | 9.31 | 19.00 | 82.6 |
| 16mm | 499.60 | 2.79 | 16.00 | 79.8 |
| 13.2mm | 558.80 | 2.39 | 13.20 | 77.4 |
| 9.5mm | 624.10 | 2.64 | 9.50 | 74.8 |
| 4.75mm | 724.20 | 4.05 | 4.75 | 70.7 |
| PAN | 1749.20 | 70.71 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 21.10 | 5.11 | 2.36 | 65.6 |
| 1.18mm | 38.10 | 4.12 | 1.18 | 61.5 |
| 600µm | 57.50 | 4.70 | 0.60 | 56.8 |
| 300µm | 87.30 | 7.22 | 0.30 | 49.6 |
| 150µm | 131.70 | 10.76 | 0.15 | 38.8 |
| 75µm | 178.00 | 11.22 | 0.08 | 27.6 |

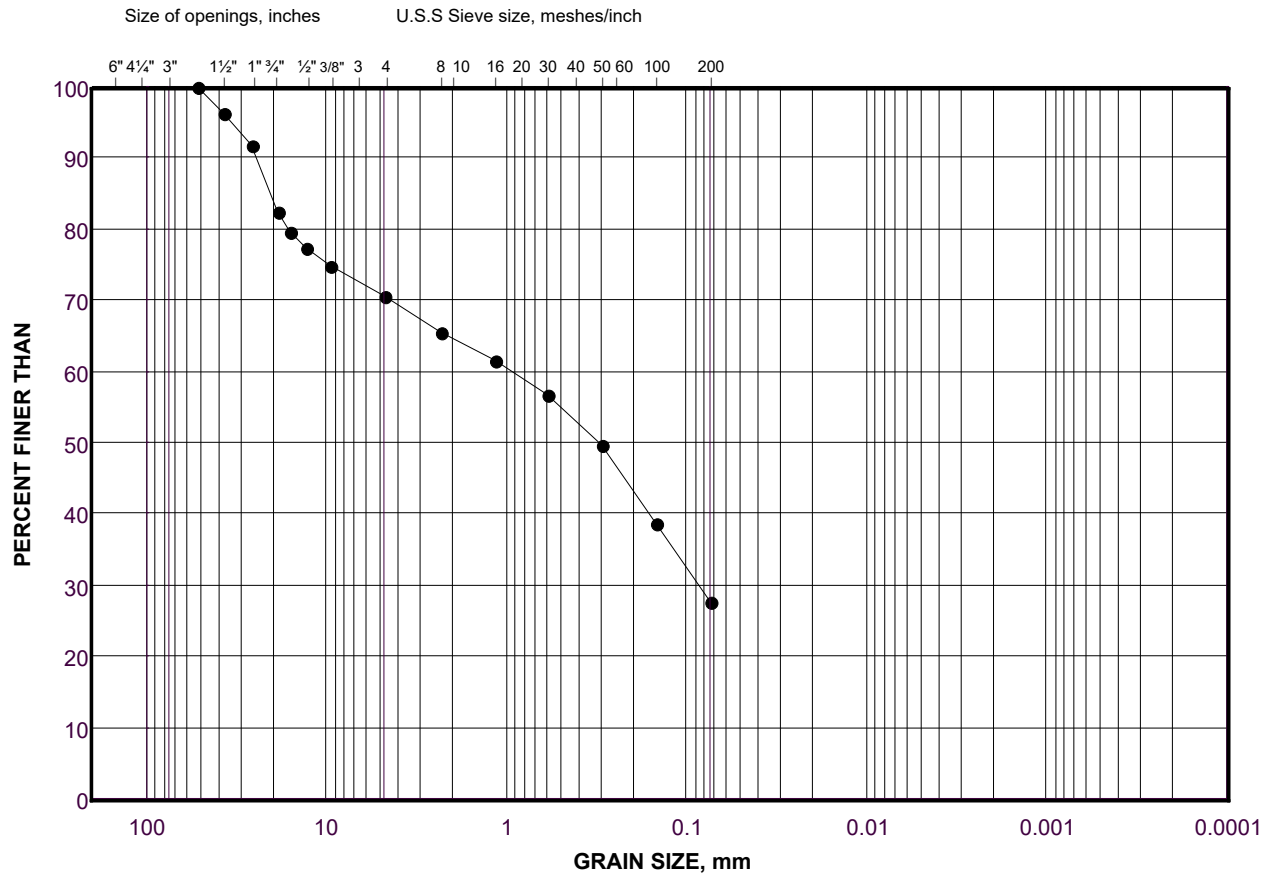
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 4 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-02 | Testing Date | 3/28/22 4:12:18 PM |
| Sample Number | 2A | Tested By | Sieve - LB |
| Checked By | _____ | LabID | 22-645 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-----------|
| ● | MW 21-02 | 2A | 3.0 - 4.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 8437.2(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 357.20 | 4.23 | 53.00 | 95.8 |
| 37.5mm | 357.20 | 0.00 | 37.50 | 95.8 |
| 26.5mm | 631.30 | 3.25 | 26.50 | 92.5 |
| 19.0mm | 836.20 | 2.43 | 19.00 | 90.1 |
| 16mm | 997.60 | 1.91 | 16.00 | 88.2 |
| 13.2mm | 1283.50 | 3.39 | 13.20 | 84.8 |
| 9.5mm | 1693.40 | 4.86 | 9.50 | 79.9 |
| 4.75mm | 2405.90 | 8.44 | 4.75 | 71.5 |
| PAN | 6014.50 | 71.49 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 30.90 | 7.17 | 2.36 | 64.3 |
| 1.18mm | 62.50 | 7.33 | 1.18 | 57.0 |
| 600µm | 90.80 | 6.57 | 0.60 | 50.4 |
| 300µm | 119.00 | 6.55 | 0.30 | 43.9 |
| 150µm | 147.00 | 6.50 | 0.15 | 37.4 |
| 75µm | 176.20 | 6.78 | 0.08 | 30.6 |

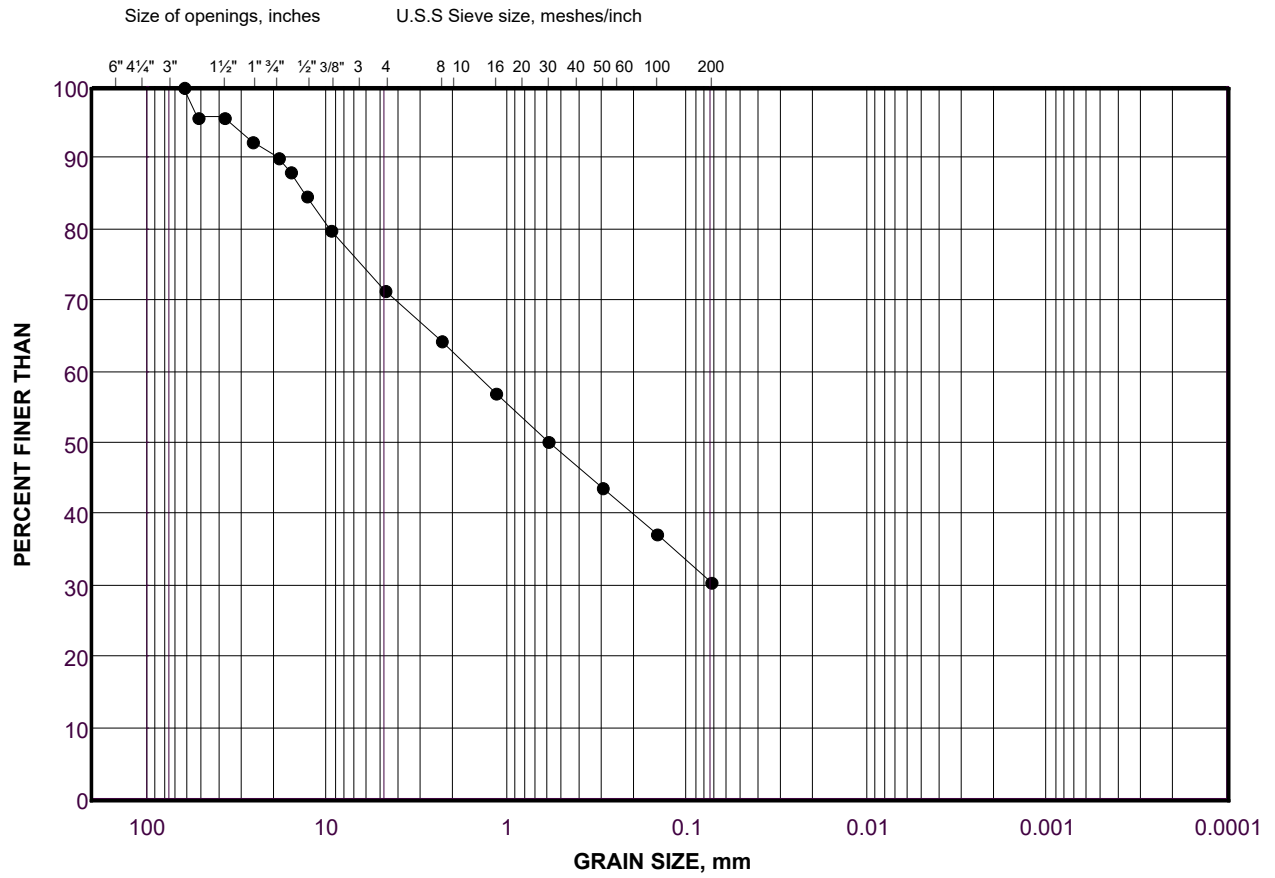
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 8 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-02 | Testing Date | 3/28/22 4:15:14 PM |
| Sample Number | 2B | Tested By | Sieve - LB |
| Checked By | _____ | LabID | 22-646 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-----------|
| ● | MW 21-02 | 2B | 4.0 - 8.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 13008.5(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 395.00 | 3.04 | 37.50 | 97.0 |
| 26.5mm | 1051.60 | 5.05 | 26.50 | 91.9 |
| 19.0mm | 1446.10 | 3.03 | 19.00 | 88.9 |
| 16mm | 1638.00 | 1.48 | 16.00 | 87.4 |
| 13.2mm | 1902.20 | 2.03 | 13.20 | 85.4 |
| 9.5mm | 2326.60 | 3.26 | 9.50 | 82.1 |
| 4.75mm | 3320.90 | 7.64 | 4.75 | 74.5 |
| PAN | 9657.70 | 74.47 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 22.50 | 6.13 | 2.36 | 68.3 |
| 1.18mm | 46.60 | 6.56 | 1.18 | 61.8 |
| 600µm | 71.20 | 6.70 | 0.60 | 55.1 |
| 300µm | 102.70 | 8.58 | 0.30 | 46.5 |
| 150µm | 124.80 | 6.02 | 0.15 | 40.5 |
| 75µm | 152.90 | 7.65 | 0.08 | 32.8 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-02
Sample Number 3
Checked By _____

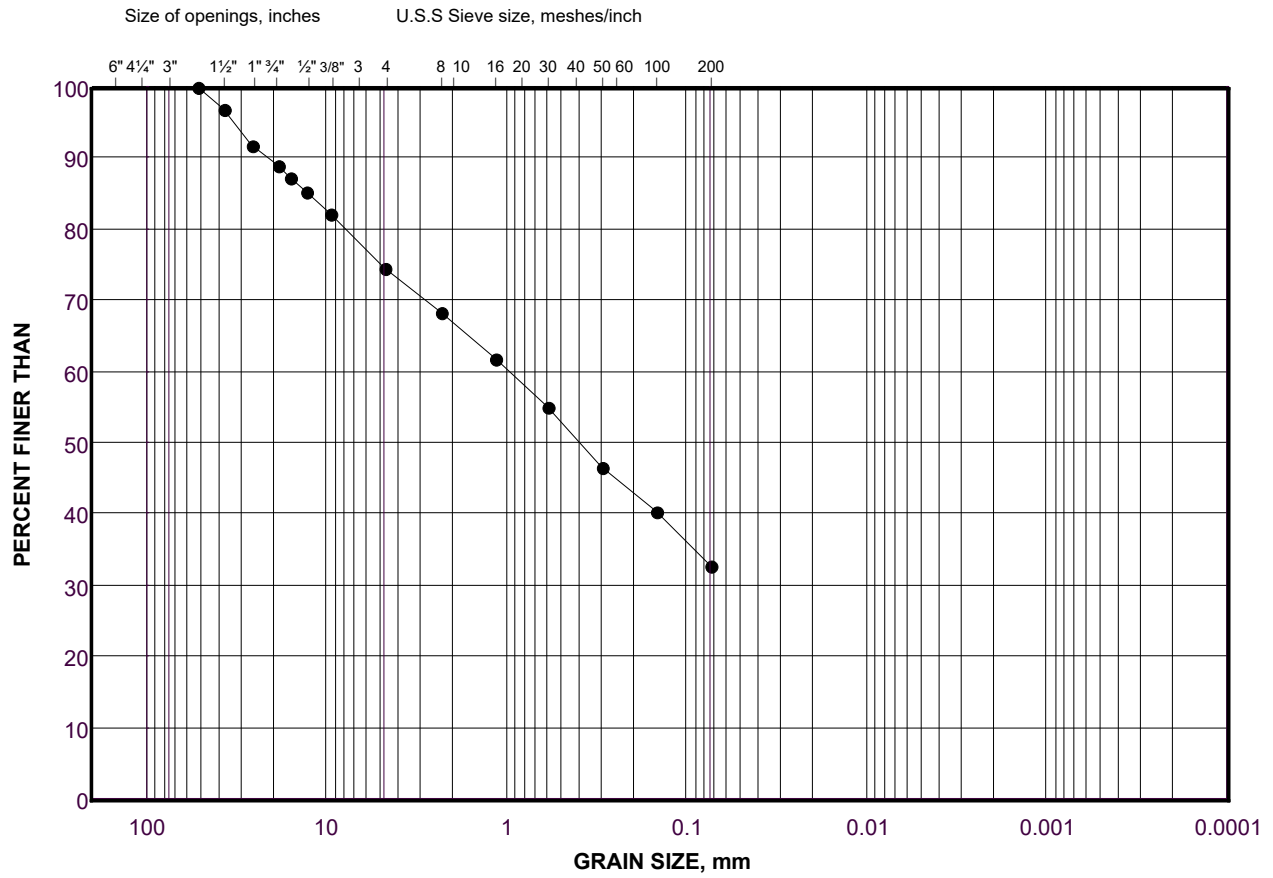
Depth 13
Units Imperial
Testing Date 3/28/22 4:16:59 PM
Tested By Sieve - TP
LabID 22-213

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|------------|
| • | MW 21-02 | 3 | 8.0 - 13.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 12407(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 860.70 | 6.94 | 63.00 | 93.1 |
| 53mm | 860.70 | 0.00 | 53.00 | 93.1 |
| 37.5mm | 1352.40 | 3.96 | 37.50 | 89.1 |
| 26.5mm | 2158.50 | 6.50 | 26.50 | 82.6 |
| 19.0mm | 2650.10 | 3.96 | 19.00 | 78.6 |
| 16mm | 2920.20 | 2.18 | 16.00 | 76.5 |
| 13.2mm | 3166.00 | 1.98 | 13.20 | 74.5 |
| 9.5mm | 3773.90 | 4.90 | 9.50 | 69.6 |
| 4.75mm | 5015.80 | 10.01 | 4.75 | 59.6 |
| PAN | 7391.20 | 59.57 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 20.50 | 4.63 | 2.36 | 54.9 |
| 1.18mm | 46.70 | 5.91 | 1.18 | 49.0 |
| 600µm | 72.60 | 5.84 | 0.60 | 43.2 |
| 300µm | 96.70 | 5.44 | 0.30 | 37.8 |
| 150µm | 121.80 | 5.66 | 0.15 | 32.1 |
| 75µm | 147.60 | 5.82 | 0.08 | 26.3 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-02
Sample Number 4
Checked By _____

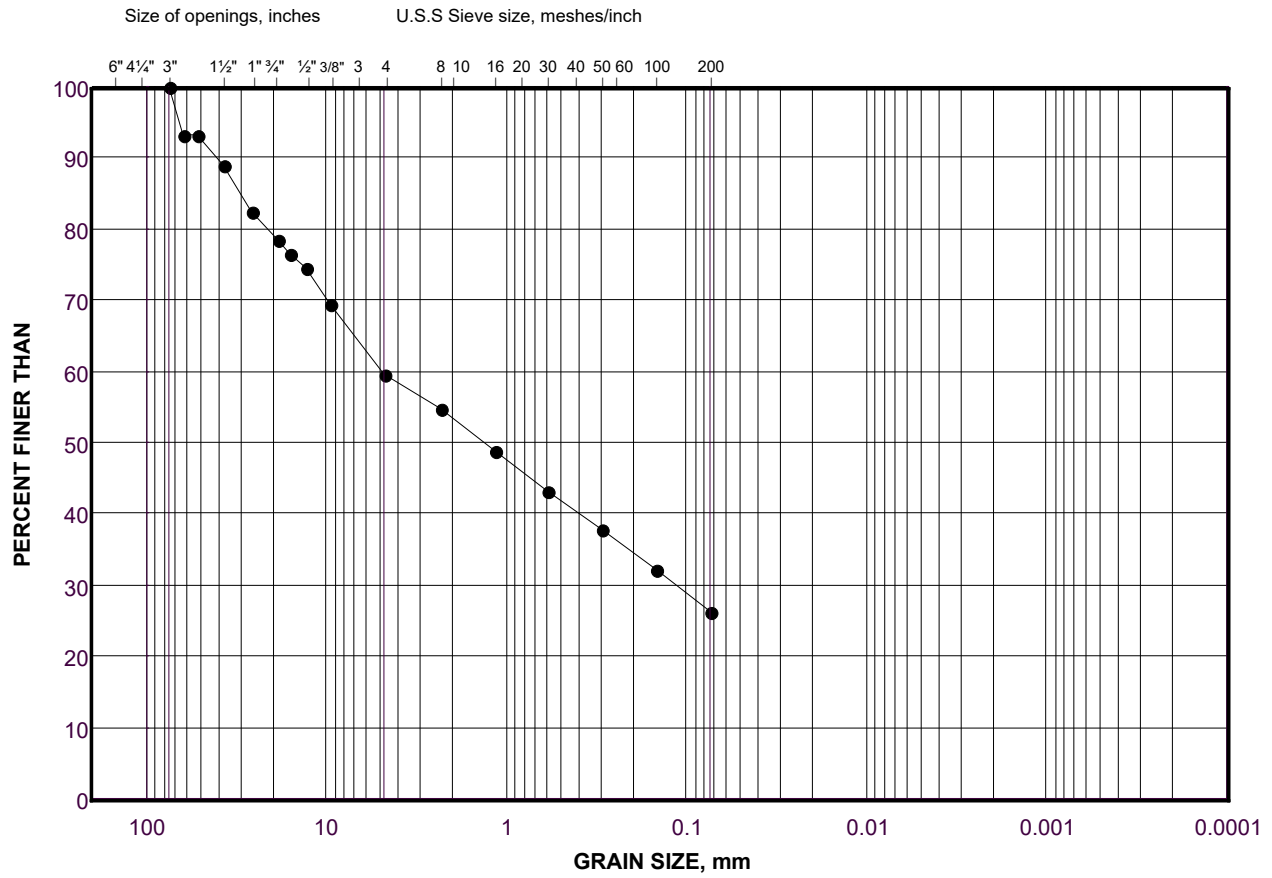
Depth 18
Units Imperial
Testing Date 3/28/22 4:18:57 PM
Tested By Sieve - AM
LabID 22-647

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-02 | 4 | 13.0 - 18.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 17920.5(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 590.80 | 3.30 | 75.00 | 96.7 |
| 63mm | 590.80 | 0.00 | 63.00 | 96.7 |
| 53mm | 590.80 | 0.00 | 53.00 | 96.7 |
| 37.5mm | 1849.80 | 7.03 | 37.50 | 89.7 |
| 26.5mm | 2853.80 | 5.60 | 26.50 | 84.1 |
| 19.0mm | 3600.30 | 4.17 | 19.00 | 79.9 |
| 16mm | 4060.00 | 2.57 | 16.00 | 77.3 |
| 13.2mm | 4396.60 | 1.88 | 13.20 | 75.5 |
| 9.5mm | 5165.90 | 4.29 | 9.50 | 71.2 |
| 4.75mm | 6367.30 | 6.70 | 4.75 | 64.5 |
| PAN | 11493.80 | 64.46 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 23.50 | 5.26 | 2.36 | 59.2 |
| 1.18mm | 48.30 | 5.55 | 1.18 | 53.7 |
| 600µm | 72.00 | 5.30 | 0.60 | 48.4 |
| 300µm | 98.50 | 5.93 | 0.30 | 42.4 |
| 150µm | 129.90 | 7.02 | 0.15 | 35.4 |
| 75µm | 163.40 | 7.49 | 0.08 | 27.9 |

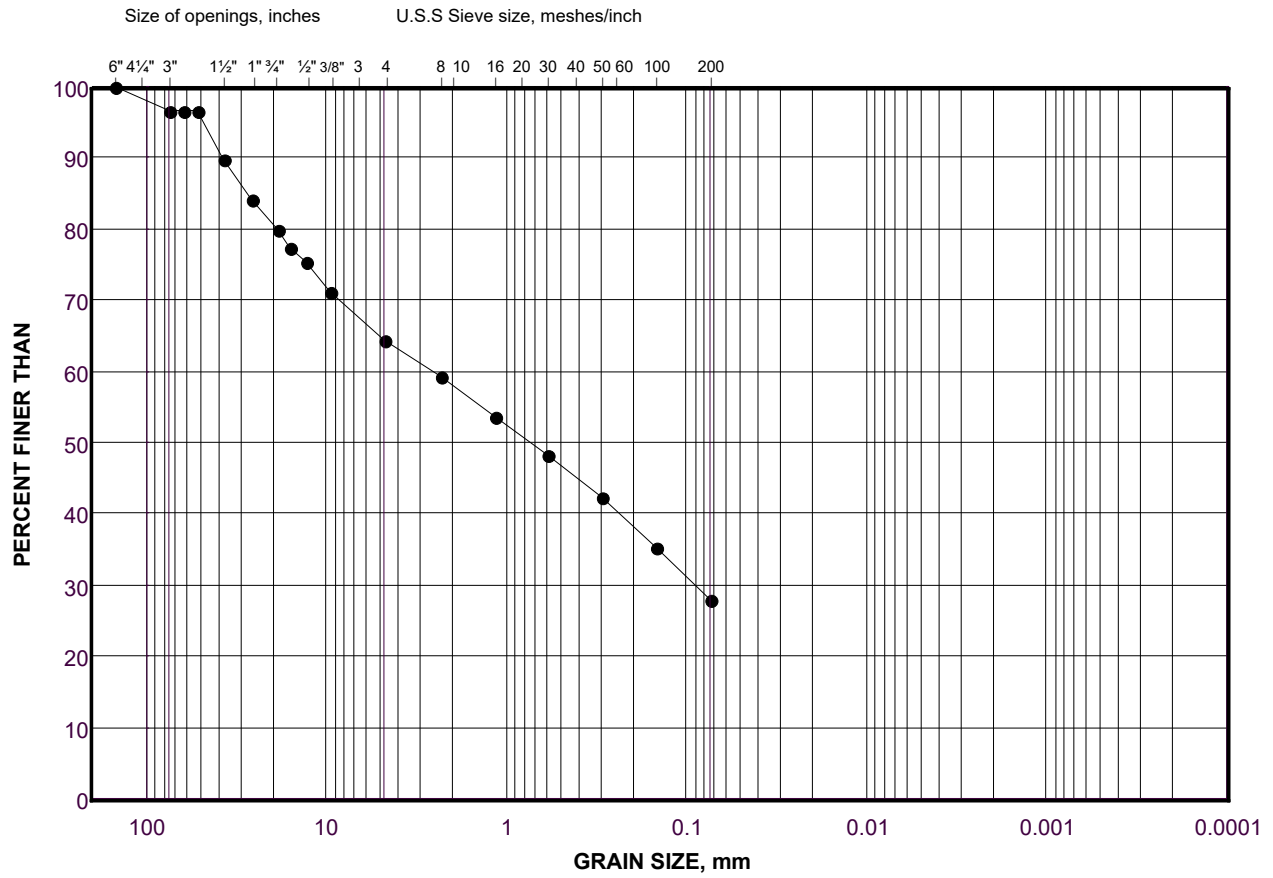
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 23 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-02 | Testing Date | 3/28/22 4:24:38 PM |
| Sample Number | 5 | Tested By | Sieve - TP |
| Checked By | _____ | LabID | 22-208 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | MW 21-02 | 5 | 18.0 - 23.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 5489(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 247.40 | 4.51 | 53.00 | 95.5 |
| 37.5mm | 930.40 | 12.44 | 37.50 | 83.1 |
| 26.5mm | 1506.40 | 10.49 | 26.50 | 72.6 |
| 19.0mm | 1929.80 | 7.71 | 19.00 | 64.9 |
| 16mm | 2088.60 | 2.89 | 16.00 | 62.0 |
| 13.2mm | 2274.00 | 3.38 | 13.20 | 58.6 |
| 9.5mm | 2587.80 | 5.72 | 9.50 | 52.9 |
| 4.75mm | 3076.20 | 8.90 | 4.75 | 44.0 |
| PAN | 2402.10 | 43.96 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 48.50 | 7.45 | 2.36 | 36.5 |
| 1.18mm | 87.00 | 5.92 | 1.18 | 30.6 |
| 600µm | 117.00 | 4.61 | 0.60 | 26.0 |
| 300µm | 140.60 | 3.63 | 0.30 | 22.4 |
| 150µm | 160.50 | 3.06 | 0.15 | 19.3 |
| 75µm | 179.10 | 2.86 | 0.08 | 16.4 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-02
Sample Number 6A
Checked By _____

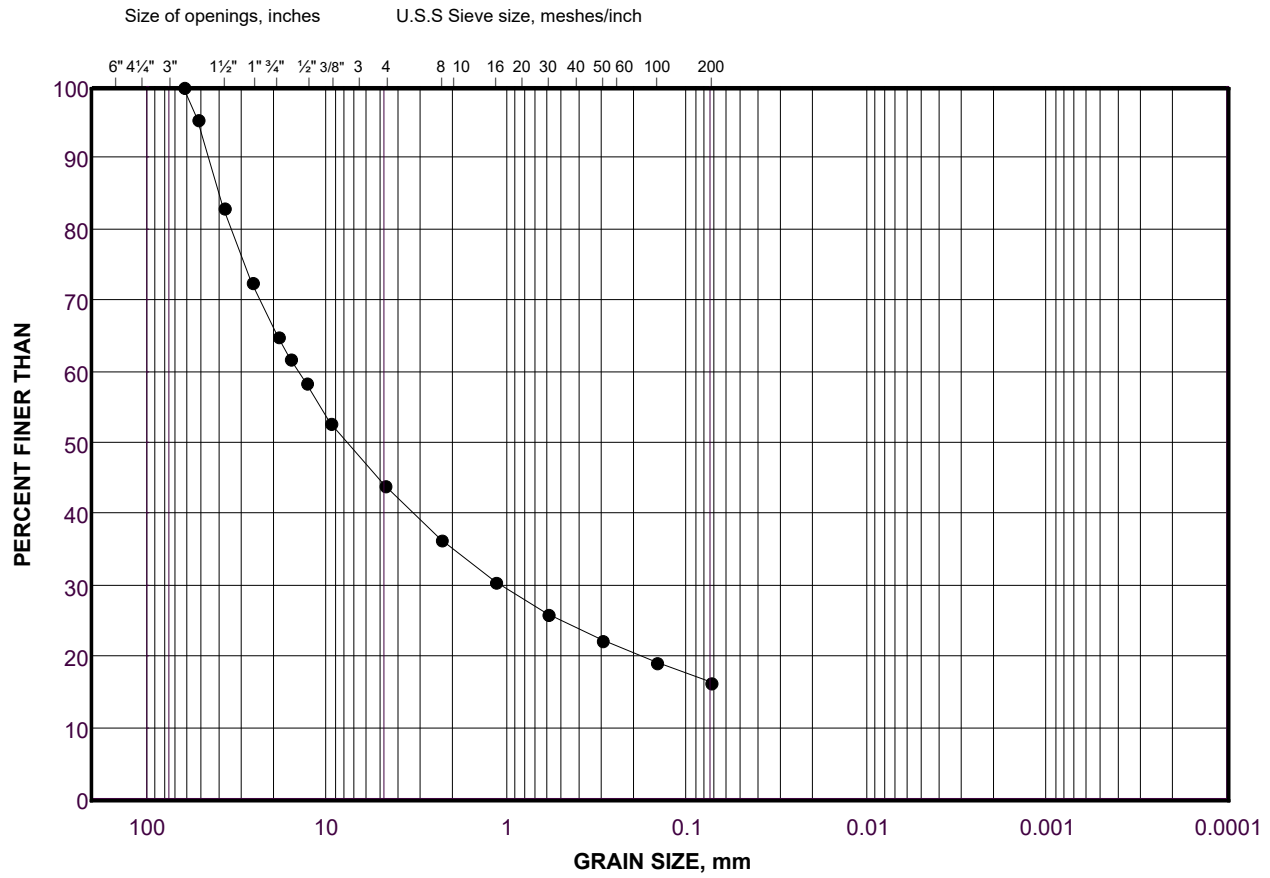
Depth 24.5
Units Imperial
Testing Date 3/28/22 4:28:31 PM
Tested By Sieve - JT
LabID 22-559

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|--------------|
| ● | MW 21-02 | 6A | 23.0 - 24.50 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 10122.5(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 1011.30 | 9.99 | 63.00 | 90.0 |
| 53mm | 1011.30 | 0.00 | 53.00 | 90.0 |
| 37.5mm | 1382.60 | 3.67 | 37.50 | 86.3 |
| 26.5mm | 1907.40 | 5.18 | 26.50 | 81.2 |
| 19.0mm | 2627.90 | 7.12 | 19.00 | 74.0 |
| 16mm | 3072.40 | 4.39 | 16.00 | 69.7 |
| 13.2mm | 3394.40 | 3.18 | 13.20 | 66.5 |
| 9.5mm | 4080.90 | 6.78 | 9.50 | 59.7 |
| 4.75mm | 5261.80 | 11.67 | 4.75 | 48.0 |
| PAN | 4860.70 | 48.02 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 45.00 | 7.63 | 2.36 | 40.4 |
| 1.18mm | 89.10 | 7.48 | 1.18 | 32.9 |
| 600µm | 127.80 | 6.56 | 0.60 | 26.4 |
| 300µm | 167.20 | 6.68 | 0.30 | 19.7 |
| 150µm | 197.40 | 5.12 | 0.15 | 14.6 |
| 75µm | 216.60 | 3.25 | 0.08 | 11.3 |

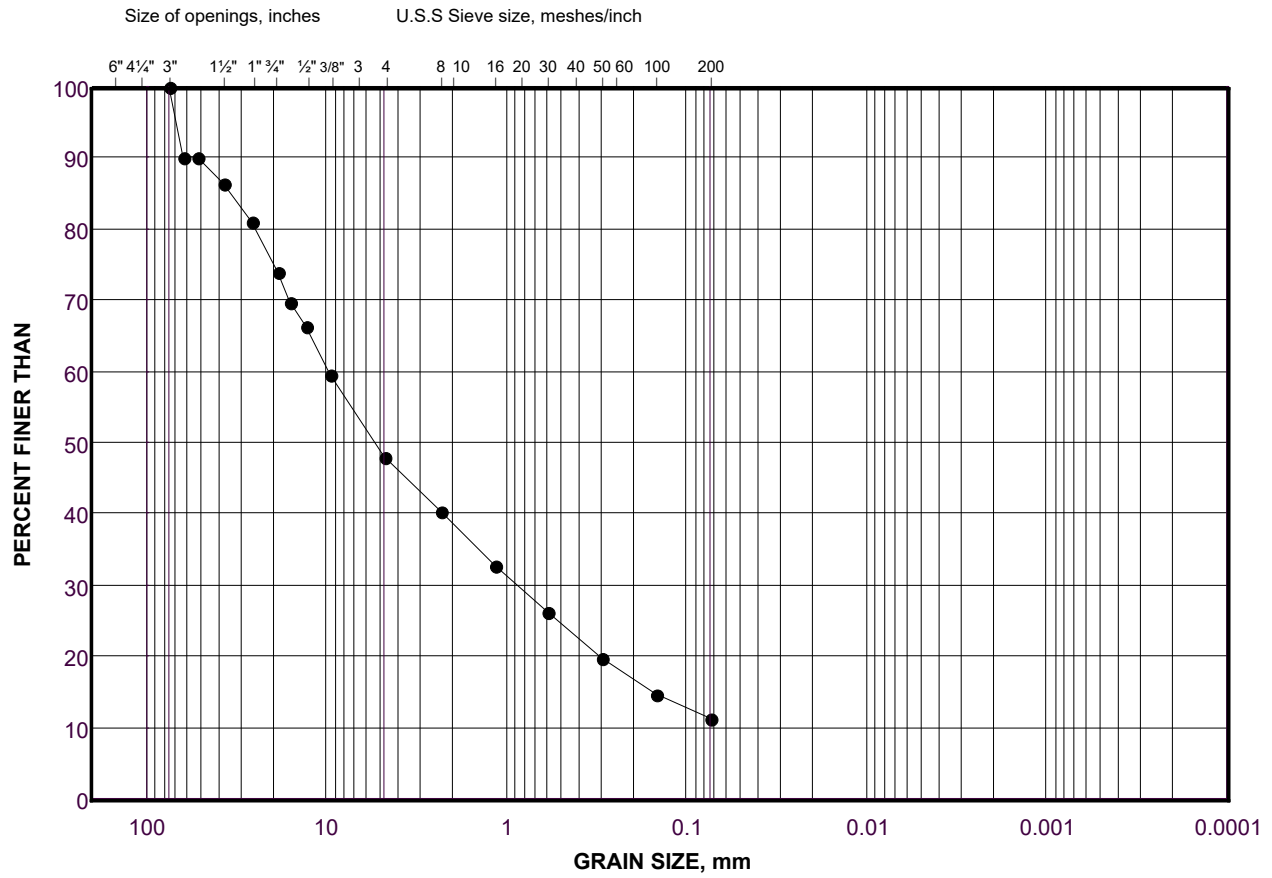
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 28 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-02 | Testing Date | 3/28/22 4:30:49 PM |
| Sample Number | 6B | Tested By | Sieve - IC |
| Checked By | _____ | LabID | 22-569 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-02 | 6B | 24.5 - 28.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 11283(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 340.90 | 3.02 | 53.00 | 97.0 |
| 37.5mm | 1121.00 | 6.91 | 37.50 | 90.1 |
| 26.5mm | 2198.70 | 9.55 | 26.50 | 80.5 |
| 19.0mm | 3308.30 | 9.83 | 19.00 | 70.7 |
| 16mm | 3703.20 | 3.50 | 16.00 | 67.2 |
| 13.2mm | 4022.70 | 2.83 | 13.20 | 64.4 |
| 9.5mm | 4793.90 | 6.84 | 9.50 | 57.5 |
| 4.75mm | 5943.50 | 10.19 | 4.75 | 47.3 |
| PAN | 5329.80 | 47.33 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 50.40 | 9.04 | 2.36 | 38.3 |
| 1.18mm | 95.50 | 8.09 | 1.18 | 30.2 |
| 600µm | 132.80 | 6.69 | 0.60 | 23.5 |
| 300µm | 163.10 | 5.43 | 0.30 | 18.1 |
| 150µm | 182.50 | 3.48 | 0.15 | 14.6 |
| 75µm | 196.40 | 2.49 | 0.08 | 12.1 |

Project Number 21476582
Project Task 1000
Station Number MW 21-02
Sample Number 7
Checked By _____

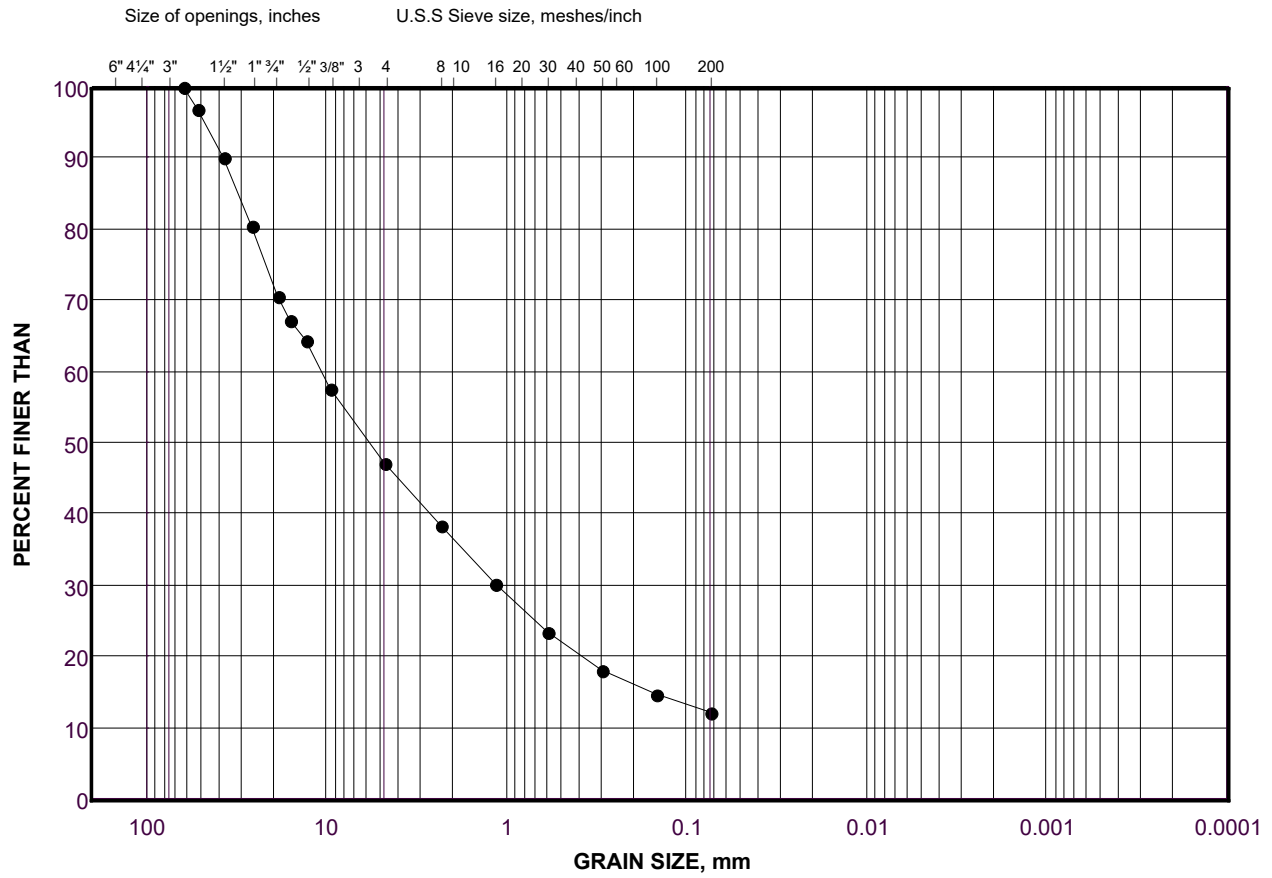
Depth 33
Units Imperial
Testing Date 3/07/22 4:03:15 PM
Tested By Sieve -
LabID 22-422

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | STATION | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-02 | 7 | 28.0 - 33.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 13334(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 303.80 | 2.28 | 53.00 | 97.7 |
| 37.5mm | 1616.50 | 9.84 | 37.50 | 87.9 |
| 26.5mm | 2446.70 | 6.23 | 26.50 | 81.7 |
| 19.0mm | 3341.10 | 6.71 | 19.00 | 74.9 |
| 16mm | 3803.80 | 3.47 | 16.00 | 71.5 |
| 13.2mm | 4164.50 | 2.71 | 13.20 | 68.8 |
| 9.5mm | 5028.90 | 6.48 | 9.50 | 62.3 |
| 4.75mm | 6456.60 | 10.71 | 4.75 | 51.6 |
| PAN | 6865.00 | 51.57 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 46.90 | 8.67 | 2.36 | 42.9 |
| 1.18mm | 95.30 | 8.95 | 1.18 | 34.0 |
| 600µm | 133.00 | 6.97 | 0.60 | 27.0 |
| 300µm | 164.40 | 5.81 | 0.30 | 21.2 |
| 150µm | 186.50 | 4.09 | 0.15 | 17.1 |
| 75µm | 204.80 | 3.38 | 0.08 | 13.7 |

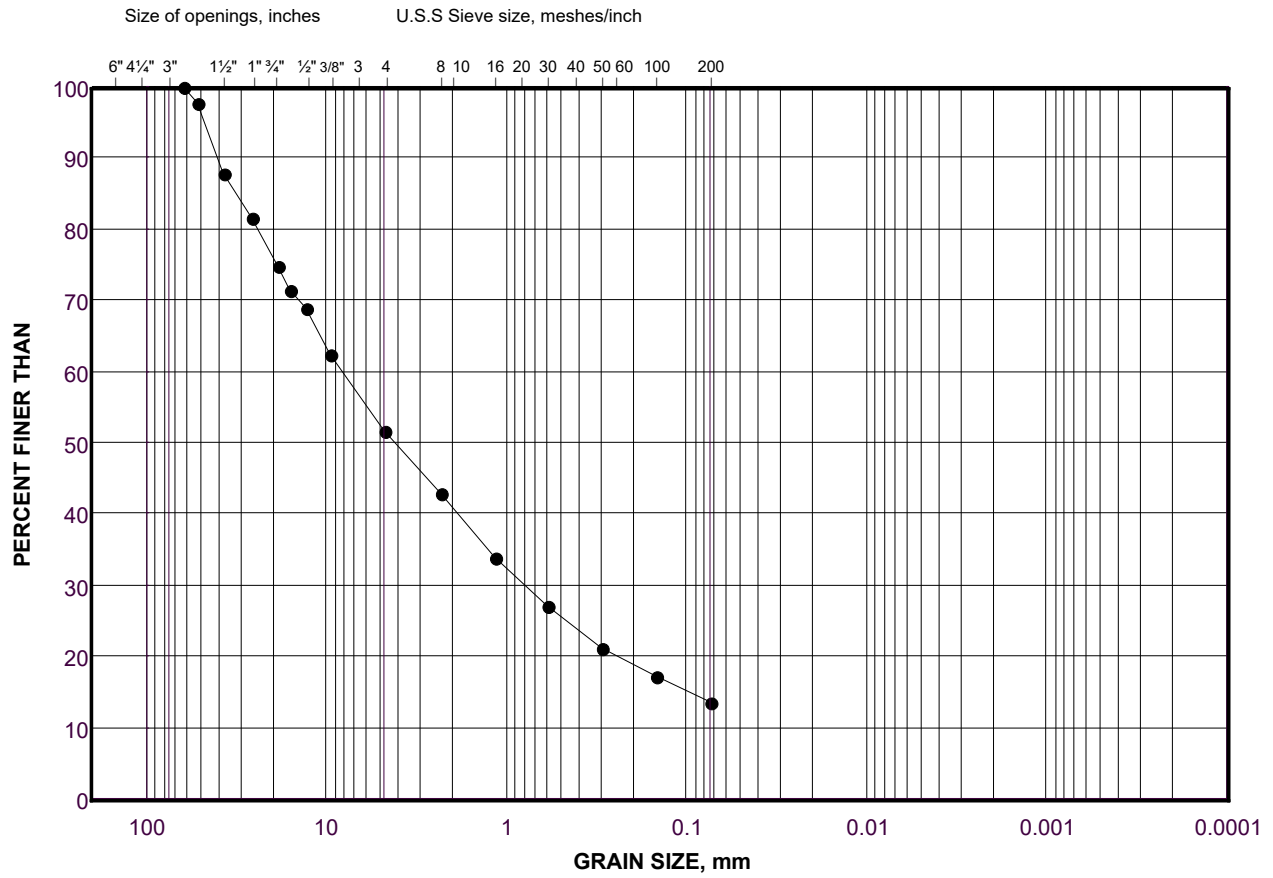
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 38 |
| Project Task | 1000 | Units | Metric |
| Borehole Number | MW 21-02 | Testing Date | 3/28/22 4:33:20 PM |
| Sample Number | 8 | Tested By | Sieve - IC |
| Checked By | _____ | LabID | 22-560 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(m) |
|--------|----------|--------|-------------|
| • | MW 21-02 | 8 | 33.0 - 38.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 20084(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1855.80 | 9.24 | 75.00 | 90.8 |
| 63mm | 2812.10 | 4.76 | 63.00 | 86.0 |
| 53mm | 4218.20 | 7.00 | 53.00 | 79.0 |
| 37.5mm | 5782.10 | 7.79 | 37.50 | 71.2 |
| 26.5mm | 7820.10 | 10.15 | 26.50 | 61.1 |
| 19.0mm | 9227.20 | 7.01 | 19.00 | 54.1 |
| 16mm | 9804.20 | 2.87 | 16.00 | 51.2 |
| 13.2mm | 10326.80 | 2.60 | 13.20 | 48.6 |
| 9.5mm | 11405.80 | 5.37 | 9.50 | 43.2 |
| 4.75mm | 13270.90 | 9.29 | 4.75 | 33.9 |
| PAN | 6813.10 | 33.92 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 61.20 | 7.37 | 2.36 | 26.6 |
| 1.18mm | 108.70 | 5.72 | 1.18 | 20.8 |
| 600µm | 143.10 | 4.14 | 0.60 | 16.7 |
| 300µm | 181.30 | 4.60 | 0.30 | 12.1 |
| 150µm | 204.40 | 2.78 | 0.15 | 9.3 |
| 75µm | 222.50 | 2.18 | 0.08 | 7.1 |

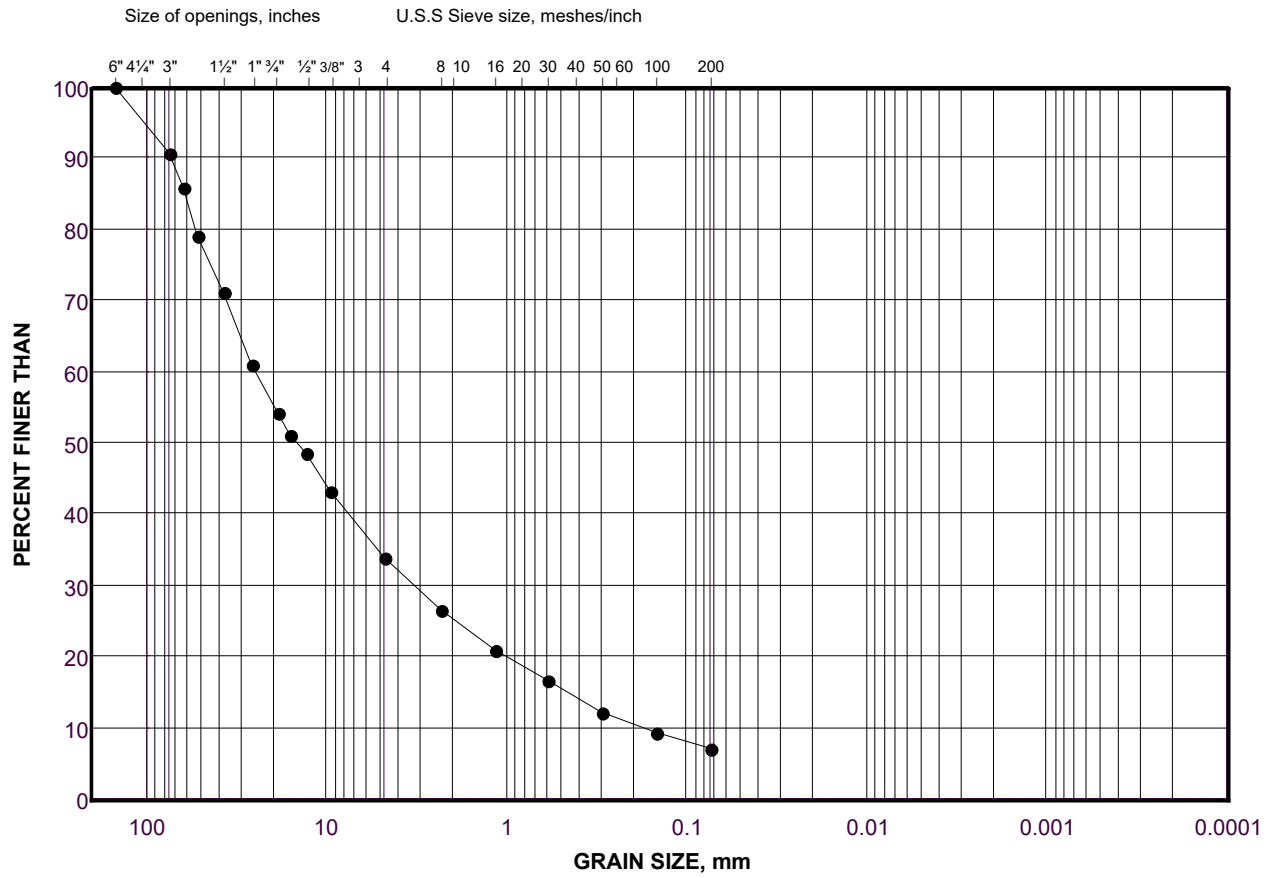
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 43 |
| Project Task | 1000 | Units | Metric |
| Borehole Number | MW 21-02 | Testing Date | 3/28/22 4:35:29 PM |
| Sample Number | 9 | Tested By | Sieve - IC |
| Checked By | _____ | LabID | 22-554 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(m) |
|--------|----------|--------|-------------|
| • | MW 21-02 | 9 | 38.0 - 43.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 19312(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 1232.00 | 6.38 | 63.00 | 93.6 |
| 53mm | 1232.00 | 0.00 | 53.00 | 93.6 |
| 37.5mm | 4222.00 | 15.48 | 37.50 | 78.1 |
| 26.5mm | 5728.00 | 7.80 | 26.50 | 70.3 |
| 19.0mm | 7090.00 | 7.05 | 19.00 | 63.3 |
| 16mm | 7790.00 | 3.62 | 16.00 | 59.7 |
| 13.2mm | 8464.00 | 3.49 | 13.20 | 56.2 |
| 9.5mm | 9590.00 | 5.83 | 9.50 | 50.4 |
| 4.75mm | 11422.00 | 9.49 | 4.75 | 40.9 |
| PAN | 7890.00 | 40.86 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 62.55 | 7.50 | 2.36 | 33.4 |
| 1.18mm | 111.00 | 5.81 | 1.18 | 27.6 |
| 600µm | 155.98 | 5.39 | 0.60 | 22.2 |
| 300µm | 193.92 | 4.55 | 0.30 | 17.6 |
| 150µm | 226.59 | 3.92 | 0.15 | 13.7 |
| 75µm | 258.28 | 3.80 | 0.08 | 9.9 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-02
Sample Number 10
Checked By _____

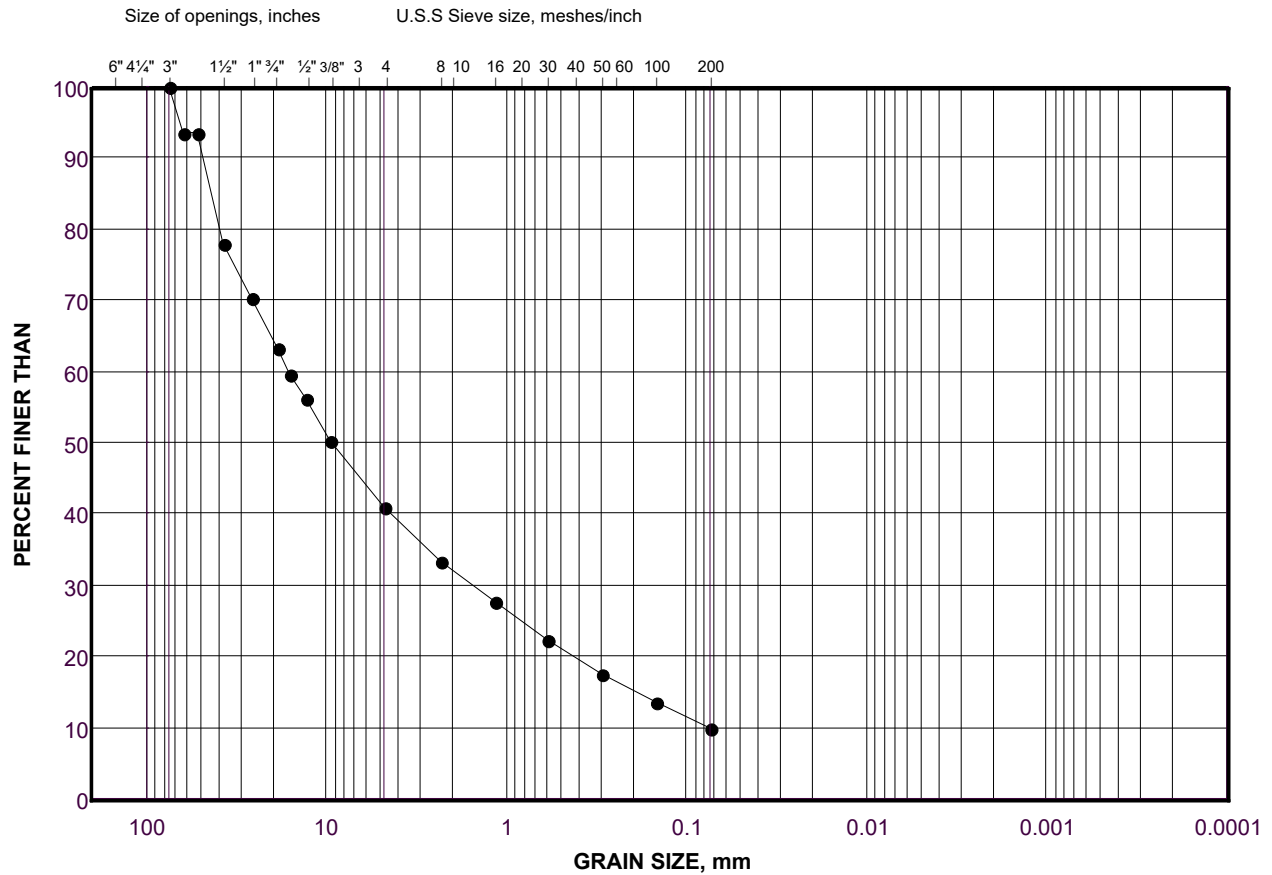
Depth
Units Imperial
Testing Date 3/28/22 4:37:51 PM
Tested By Sieve - JB
LabID 22-573

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | MW 21-02 | 10 | 43.0 - 48.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 15556.3(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 754.60 | 4.85 | 75.00 | 95.2 |
| 63mm | 1808.80 | 6.78 | 63.00 | 88.4 |
| 53mm | 2554.30 | 4.79 | 53.00 | 83.6 |
| 37.5mm | 3910.80 | 8.72 | 37.50 | 74.9 |
| 26.5mm | 5222.80 | 8.43 | 26.50 | 66.4 |
| 19.0mm | 6290.20 | 6.86 | 19.00 | 59.6 |
| 16mm | 7131.80 | 5.41 | 16.00 | 54.2 |
| 13.2mm | 7678.30 | 3.51 | 13.20 | 50.7 |
| 9.5mm | 8695.20 | 6.54 | 9.50 | 44.1 |
| 4.75mm | 10090.90 | 8.97 | 4.75 | 35.1 |
| PAN | 5465.40 | 35.14 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 42.70 | 5.57 | 2.36 | 29.6 |
| 1.18mm | 86.80 | 5.75 | 1.18 | 23.8 |
| 600µm | 134.70 | 6.24 | 0.60 | 17.6 |
| 300µm | 173.70 | 5.08 | 0.30 | 12.5 |
| 150µm | 197.00 | 3.04 | 0.15 | 9.5 |
| 75µm | 215.70 | 2.44 | 0.08 | 7.0 |

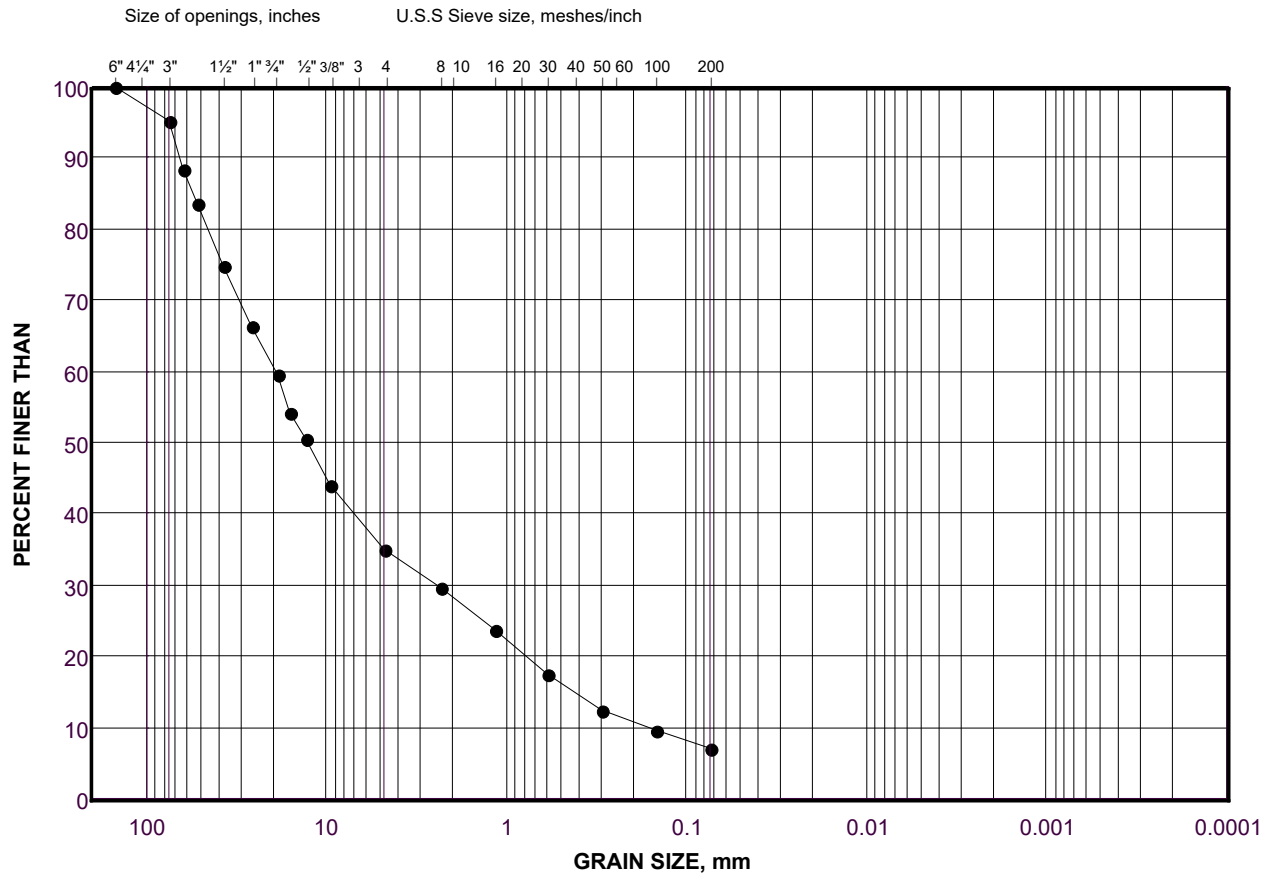
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 53 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-02 | Testing Date | 3/28/22 4:40:32 PM |
| Sample Number | 11 | Tested By | Sieve - AM |
| Checked By | _____ | LabID | 22-648 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-02 | 11 | 48.0 - 53.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 10430(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 780.00 | 7.48 | 75.00 | 92.5 |
| 63mm | 1146.00 | 3.51 | 63.00 | 89.0 |
| 53mm | 1630.00 | 4.64 | 53.00 | 84.4 |
| 37.5mm | 2018.00 | 3.72 | 37.50 | 80.7 |
| 26.5mm | 3168.00 | 11.03 | 26.50 | 69.6 |
| 19.0mm | 3464.00 | 2.84 | 19.00 | 66.8 |
| 16mm | 4240.00 | 7.44 | 16.00 | 59.3 |
| 13.2mm | 4610.00 | 3.55 | 13.20 | 55.8 |
| 9.5mm | 5220.00 | 5.85 | 9.50 | 49.9 |
| 4.75mm | 6428.00 | 11.58 | 4.75 | 38.4 |
| PAN | 4002.00 | 38.36 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 77.65 | 8.92 | 2.36 | 29.4 |
| 1.18mm | 134.42 | 6.52 | 1.18 | 22.9 |
| 600µm | 193.00 | 6.73 | 0.60 | 16.2 |
| 300µm | 226.66 | 3.87 | 0.30 | 12.3 |
| 150µm | 244.56 | 2.06 | 0.15 | 10.3 |
| 75µm | 268.30 | 2.73 | 0.08 | 7.5 |

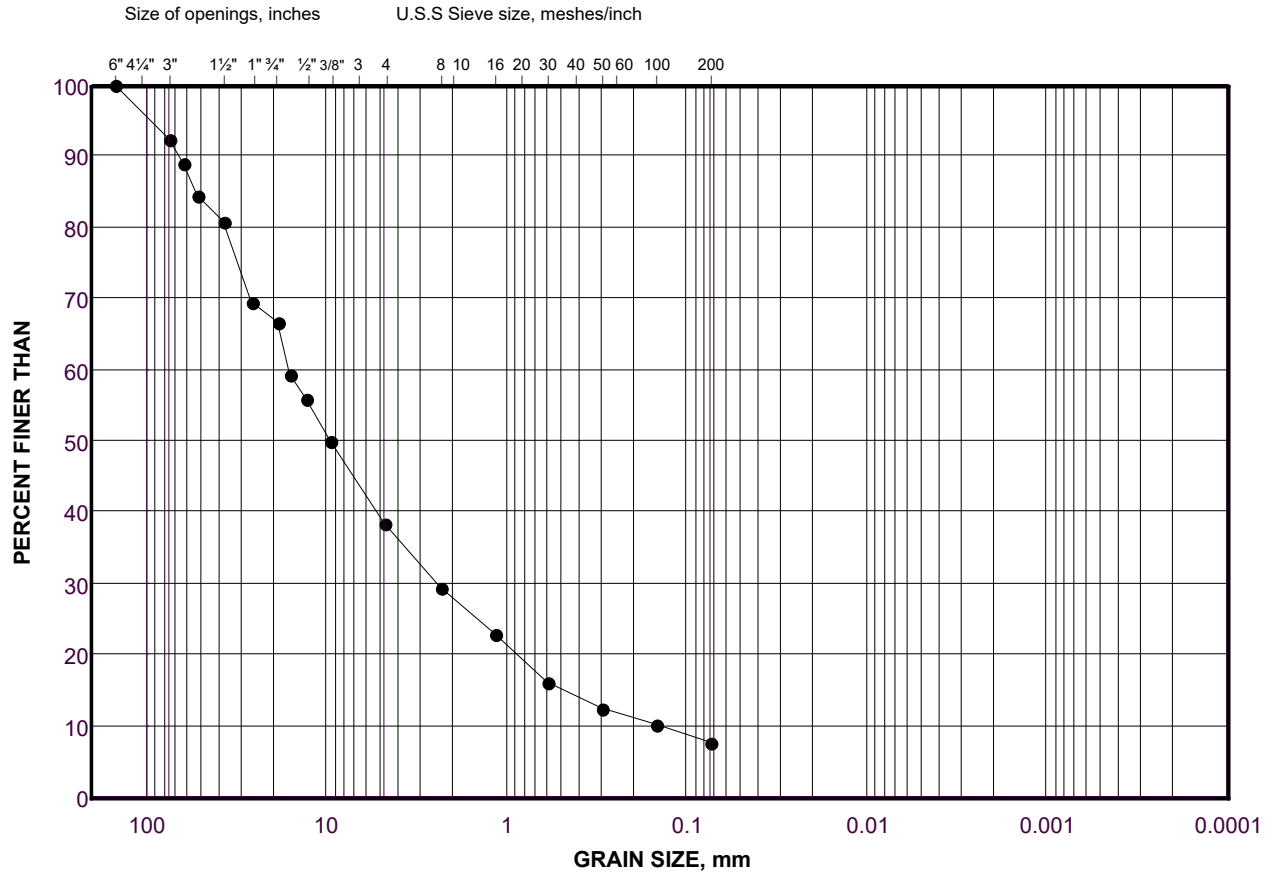
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 58 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-02 | Testing Date | 3/28/22 4:43:46 PM |
| Sample Number | 12 | Tested By | Sieve - JB |
| Checked By | _____ | LabID | 22-574 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-02 | 12 | 53.0 - 58.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 12339.1(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 411.90 | 3.34 | 63.00 | 96.7 |
| 53mm | 980.40 | 4.61 | 53.00 | 92.1 |
| 37.5mm | 2299.00 | 10.69 | 37.50 | 81.4 |
| 26.5mm | 3048.40 | 6.07 | 26.50 | 75.3 |
| 19.0mm | 3935.70 | 7.19 | 19.00 | 68.1 |
| 16mm | 4417.60 | 3.91 | 16.00 | 64.2 |
| 13.2mm | 4930.40 | 4.16 | 13.20 | 60.0 |
| 9.5mm | 5909.10 | 7.93 | 9.50 | 52.1 |
| 4.75mm | 7331.20 | 11.53 | 4.75 | 40.6 |
| PAN | 4965.80 | 40.57 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 60.60 | 7.79 | 2.36 | 32.8 |
| 1.18mm | 120.80 | 7.74 | 1.18 | 25.0 |
| 600µm | 173.40 | 6.77 | 0.60 | 18.3 |
| 300µm | 207.50 | 4.39 | 0.30 | 13.9 |
| 150µm | 230.30 | 2.93 | 0.15 | 11.0 |
| 75µm | 248.30 | 2.32 | 0.08 | 8.6 |

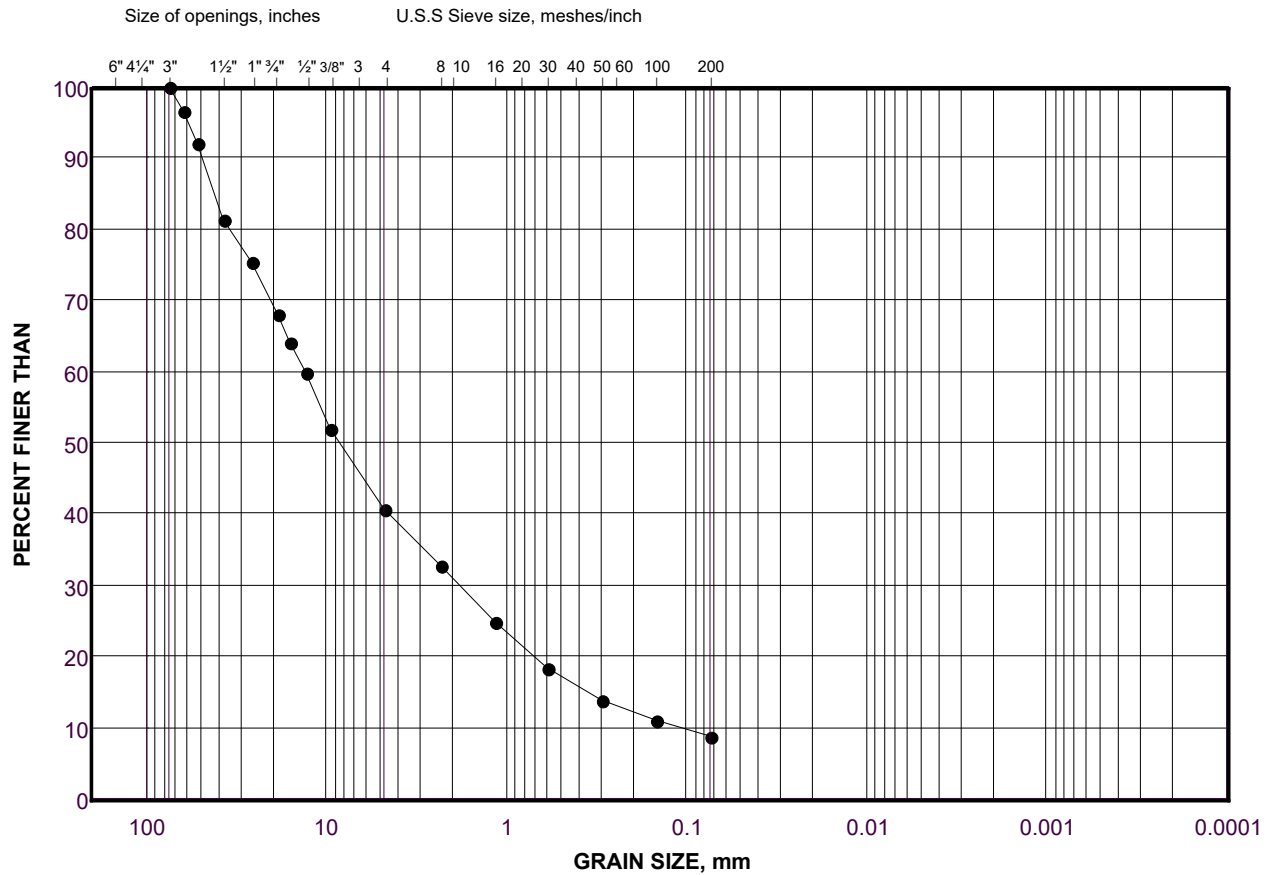
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 63 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-02 | Testing Date | 3/28/22 5:06:06 PM |
| Sample Number | 13 | Tested By | Sieve - TP |
| Checked By | _____ | LabID | 22-200 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-02 | 13 | 58.0 - 63.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 5455(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 0.00 | 0.00 | 37.50 | 100.0 |
| 26.5mm | 48.00 | 0.88 | 26.50 | 99.1 |
| 19.0mm | 262.00 | 3.92 | 19.00 | 95.2 |
| 16mm | 354.00 | 1.69 | 16.00 | 93.5 |
| 13.2mm | 448.00 | 1.72 | 13.20 | 91.8 |
| 9.5mm | 654.00 | 3.78 | 9.50 | 88.0 |
| 4.75mm | 1054.00 | 7.33 | 4.75 | 80.7 |
| PAN | 4401.00 | 80.68 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 24.13 | 5.70 | 2.36 | 75.0 |
| 1.18mm | 52.78 | 6.76 | 1.18 | 68.2 |
| 600µm | 82.72 | 7.07 | 0.60 | 61.2 |
| 300µm | 126.45 | 10.32 | 0.30 | 50.8 |
| 150µm | 180.61 | 12.79 | 0.15 | 38.0 |
| 75µm | 222.24 | 9.83 | 0.08 | 28.2 |

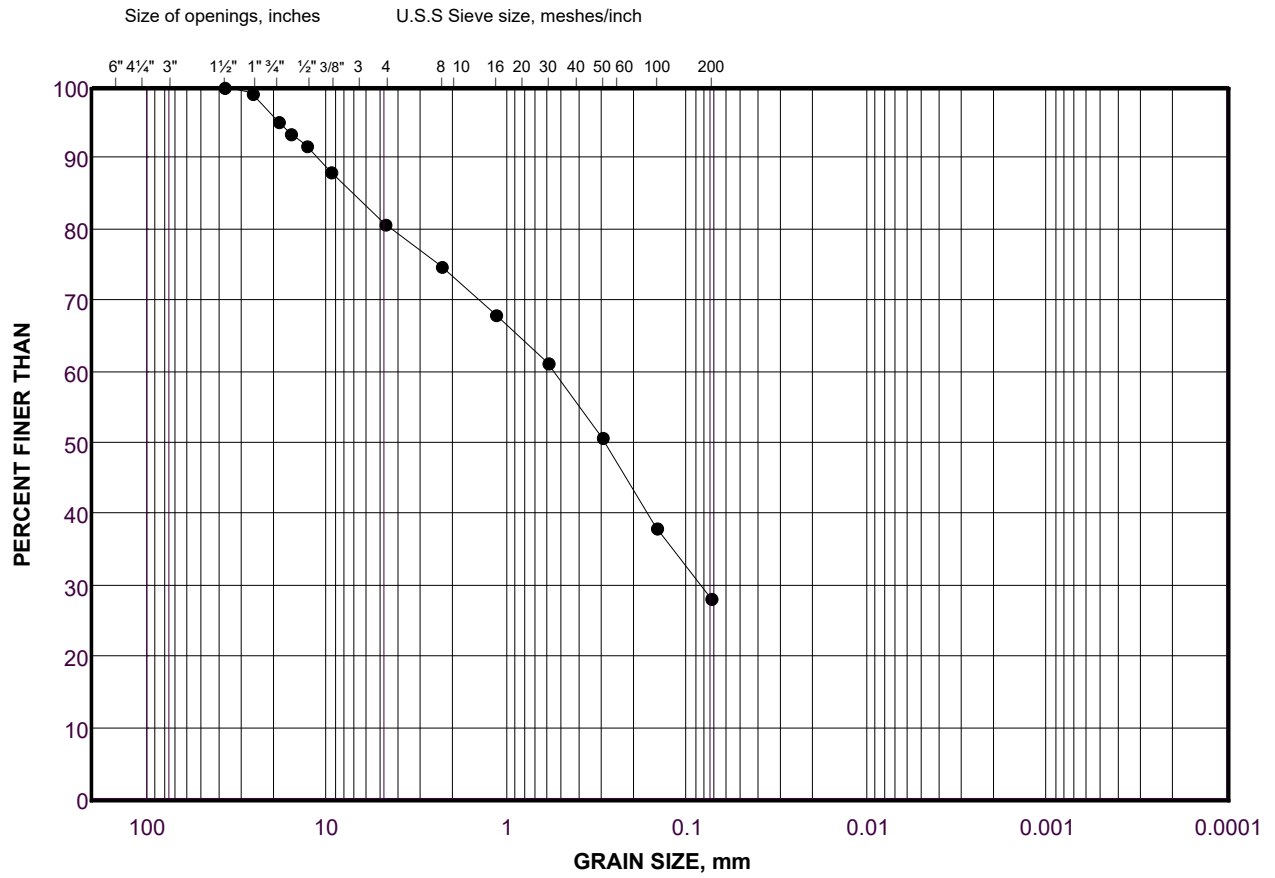
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 8 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-03 | Testing Date | 3/29/22 8:30:01 AM |
| Sample Number | 2 | Tested By | Sieve - JB |
| Checked By | _____ | LabID | 22-583 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-----------|
| ● | MW 21-03 | 2 | 3.0 - 8.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 15090(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 0.00 | 0.00 | 37.50 | 100.0 |
| 26.5mm | 40.00 | 0.27 | 26.50 | 99.7 |
| 19.0mm | 88.00 | 0.32 | 19.00 | 99.4 |
| 16mm | 158.00 | 0.46 | 16.00 | 99.0 |
| 13.2mm | 250.00 | 0.61 | 13.20 | 98.3 |
| 9.5mm | 578.00 | 2.17 | 9.50 | 96.2 |
| 4.75mm | 1820.00 | 8.23 | 4.75 | 87.9 |
| PAN | 13270.00 | 87.94 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 33.00 | 8.67 | 2.36 | 79.3 |
| 1.18mm | 65.50 | 8.54 | 1.18 | 70.7 |
| 600µm | 95.20 | 7.80 | 0.60 | 62.9 |
| 300µm | 158.57 | 16.64 | 0.30 | 46.3 |
| 150µm | 257.29 | 25.93 | 0.15 | 20.4 |
| 75µm | 285.00 | 7.28 | 0.08 | 13.1 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-03
Sample Number 4
Checked By _____

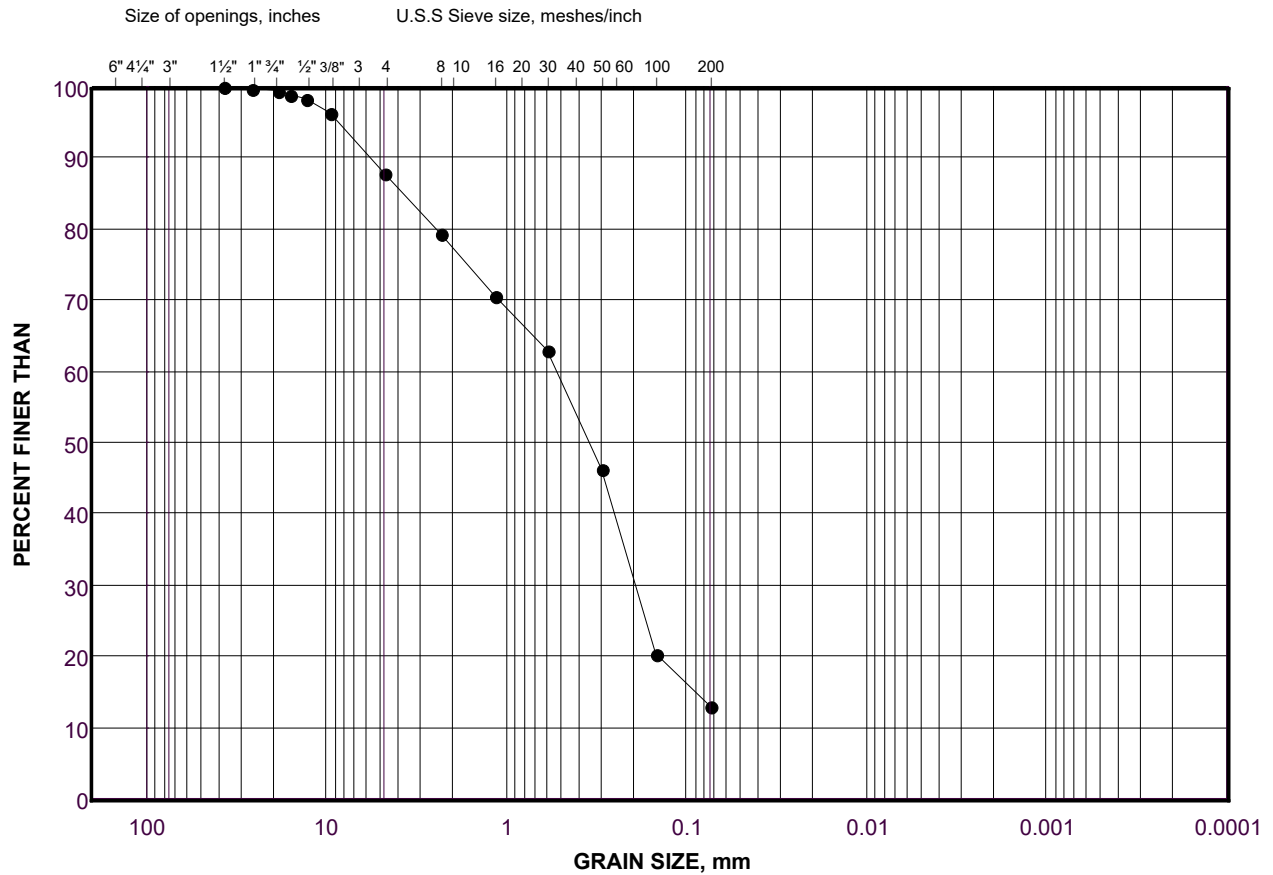
Depth 18
Units Imperial
Testing Date 3/29/22 8:33:29 AM
Tested By Sieve - JB
LabID 22-584

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-03 | 4 | 13.0 - 18.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 1027.7(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 13.2mm | 0.00 | 0.00 | 13.20 | 100.0 |
| 9.5mm | 0.00 | 0.00 | 9.50 | 100.0 |
| 4.75mm | 0.00 | 0.00 | 4.75 | 100.0 |
| PAN | 1027.70 | 100.00 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 0.01 | 0.00 | 2.36 | 100.0 |
| 1.18mm | 0.03 | 0.01 | 1.18 | 100.0 |
| 600µm | 0.10 | 0.03 | 0.60 | 100.0 |
| 300µm | 0.19 | 0.04 | 0.30 | 99.9 |
| 150µm | 0.39 | 0.08 | 0.15 | 99.8 |
| 75µm | 1.64 | 0.50 | 0.08 | 99.3 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-03
Sample Number 5
Checked By _____

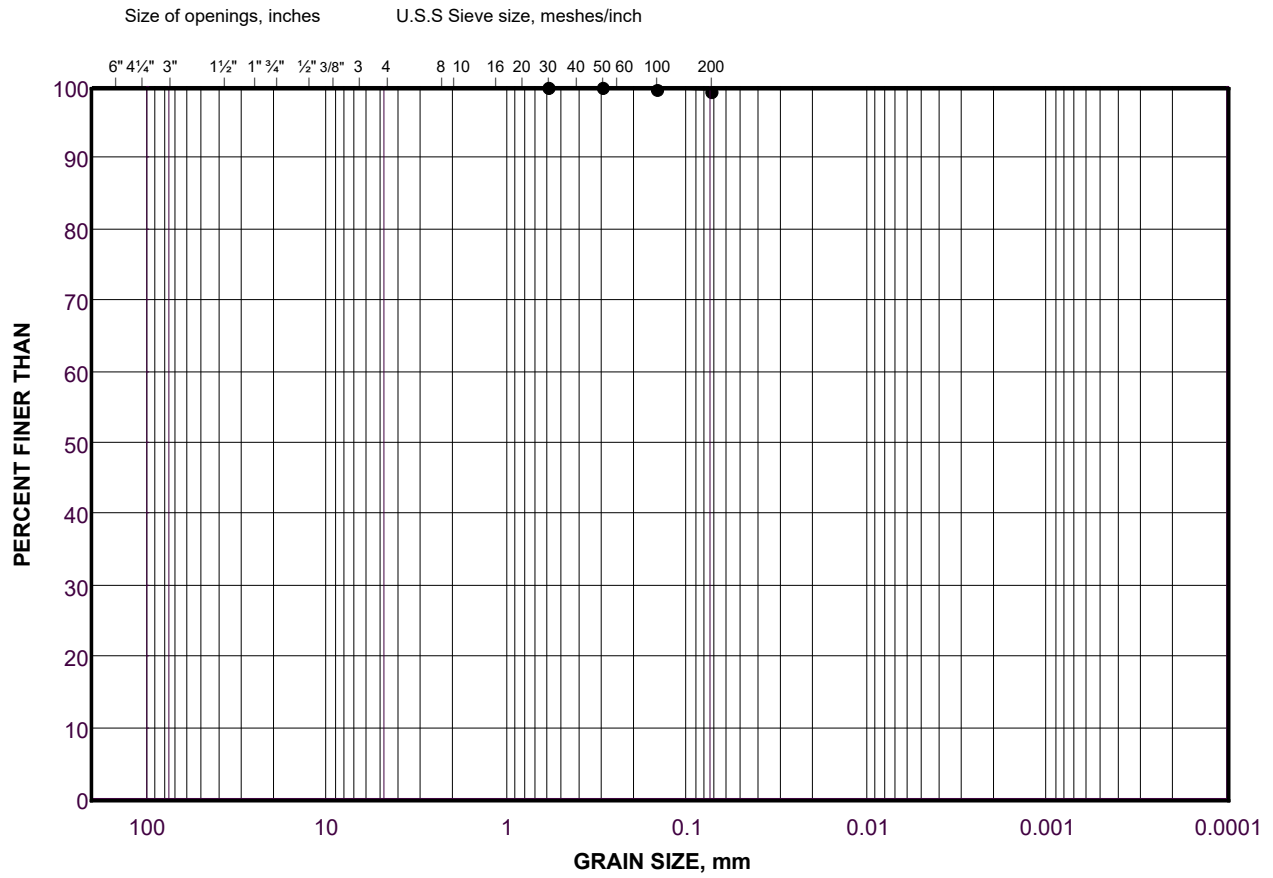
Depth 23
Units Imperial
Testing Date 3/29/22 8:36:34 AM
Tested By Sieve - JB
LabID 22-585

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | MW 21-03 | 5 | 18.0 - 23.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 10195.1(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 13.2mm | 0.00 | 0.00 | 13.20 | 100.0 |
| 9.5mm | 5.60 | 0.05 | 9.50 | 100.0 |
| 4.75mm | 29.30 | 0.23 | 4.75 | 99.7 |
| PAN | 10160.80 | 99.72 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 0.90 | 0.31 | 2.36 | 99.4 |
| 1.18mm | 2.00 | 0.38 | 1.18 | 99.0 |
| 600µm | 3.30 | 0.45 | 0.60 | 98.6 |
| 300µm | 4.70 | 0.48 | 0.30 | 98.1 |
| 150µm | 6.80 | 0.72 | 0.15 | 97.4 |
| 75µm | 17.20 | 3.58 | 0.08 | 93.8 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-03
Sample Number 6A
Checked By _____

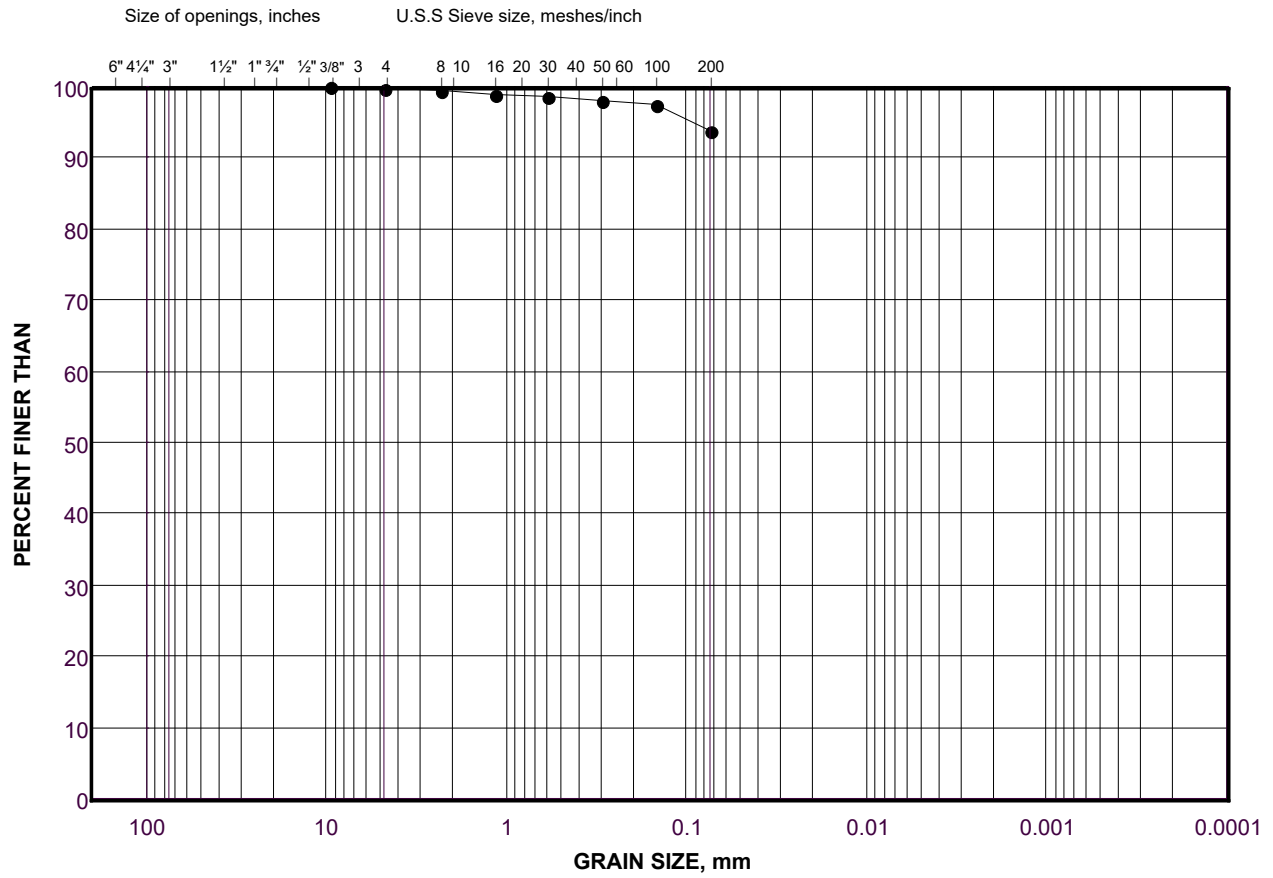
Depth 28
Units Imperial
Testing Date 3/08/22 3:31:46 PM
Tested By Sieve - TP
LabID 22-214

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-03 | 6A | 23.0 - 26.5 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 7378.9(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 92.30 | 1.25 | 37.50 | 98.8 |
| 26.5mm | 287.80 | 2.65 | 26.50 | 96.1 |
| 19.0mm | 504.40 | 2.94 | 19.00 | 93.2 |
| 16mm | 565.70 | 0.83 | 16.00 | 92.3 |
| 13.2mm | 652.80 | 1.18 | 13.20 | 91.2 |
| 9.5mm | 847.80 | 2.64 | 9.50 | 88.5 |
| 4.75mm | 1375.60 | 7.15 | 4.75 | 81.4 |
| PAN | 5969.70 | 81.36 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 15.10 | 4.50 | 2.36 | 76.9 |
| 1.18mm | 32.20 | 5.10 | 1.18 | 71.8 |
| 600µm | 48.80 | 4.95 | 0.60 | 66.8 |
| 300µm | 66.20 | 5.19 | 0.30 | 61.6 |
| 150µm | 86.10 | 5.93 | 0.15 | 55.7 |
| 75µm | 108.50 | 6.68 | 0.08 | 49.0 |

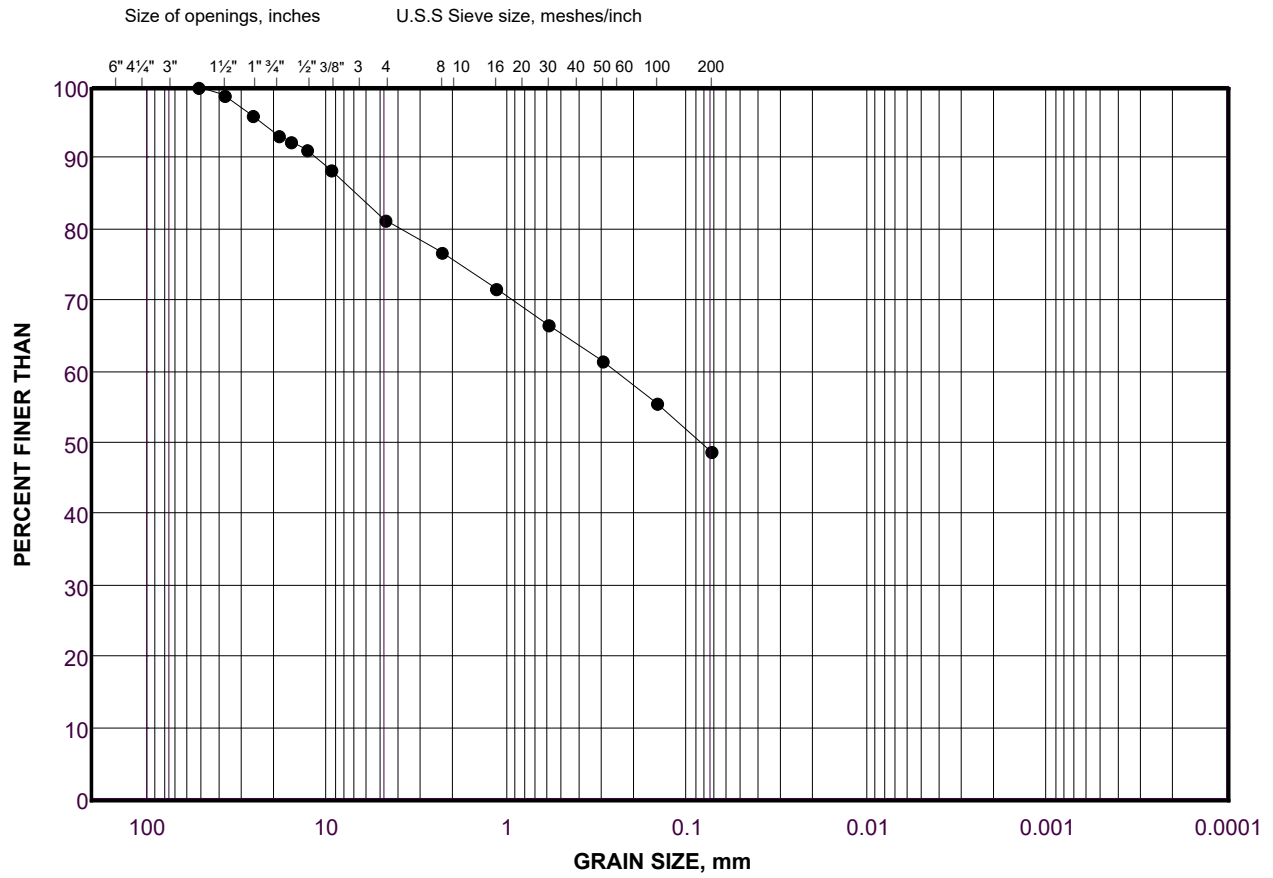
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 28 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-03 | Testing Date | 3/08/22 3:39:06 PM |
| Sample Number | 6B | Tested By | Sieve - TP |
| Checked By | _____ | LabID | 22-205 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|--------------|
| ● | MW 21-03 | 6B | 26.50 - 28.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 16380(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1983.10 | 12.11 | 75.00 | 87.9 |
| 63mm | 2728.70 | 4.55 | 63.00 | 83.3 |
| 53mm | 2728.70 | 0.00 | 53.00 | 83.3 |
| 37.5mm | 3482.30 | 4.60 | 37.50 | 78.7 |
| 26.5mm | 4536.40 | 6.44 | 26.50 | 72.3 |
| 19.0mm | 5048.70 | 3.13 | 19.00 | 69.2 |
| 16mm | 5268.20 | 1.34 | 16.00 | 67.8 |
| 13.2mm | 5510.40 | 1.48 | 13.20 | 66.4 |
| 9.5mm | 6029.50 | 3.17 | 9.50 | 63.2 |
| 4.75mm | 6924.50 | 5.46 | 4.75 | 57.7 |
| PAN | 9455.50 | 57.72 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 22.40 | 4.61 | 2.36 | 53.1 |
| 1.18mm | 46.10 | 4.88 | 1.18 | 48.2 |
| 600µm | 71.50 | 5.23 | 0.60 | 43.0 |
| 300µm | 96.20 | 5.09 | 0.30 | 37.9 |
| 150µm | 123.20 | 5.56 | 0.15 | 32.4 |
| 75µm | 153.50 | 6.24 | 0.08 | 26.1 |

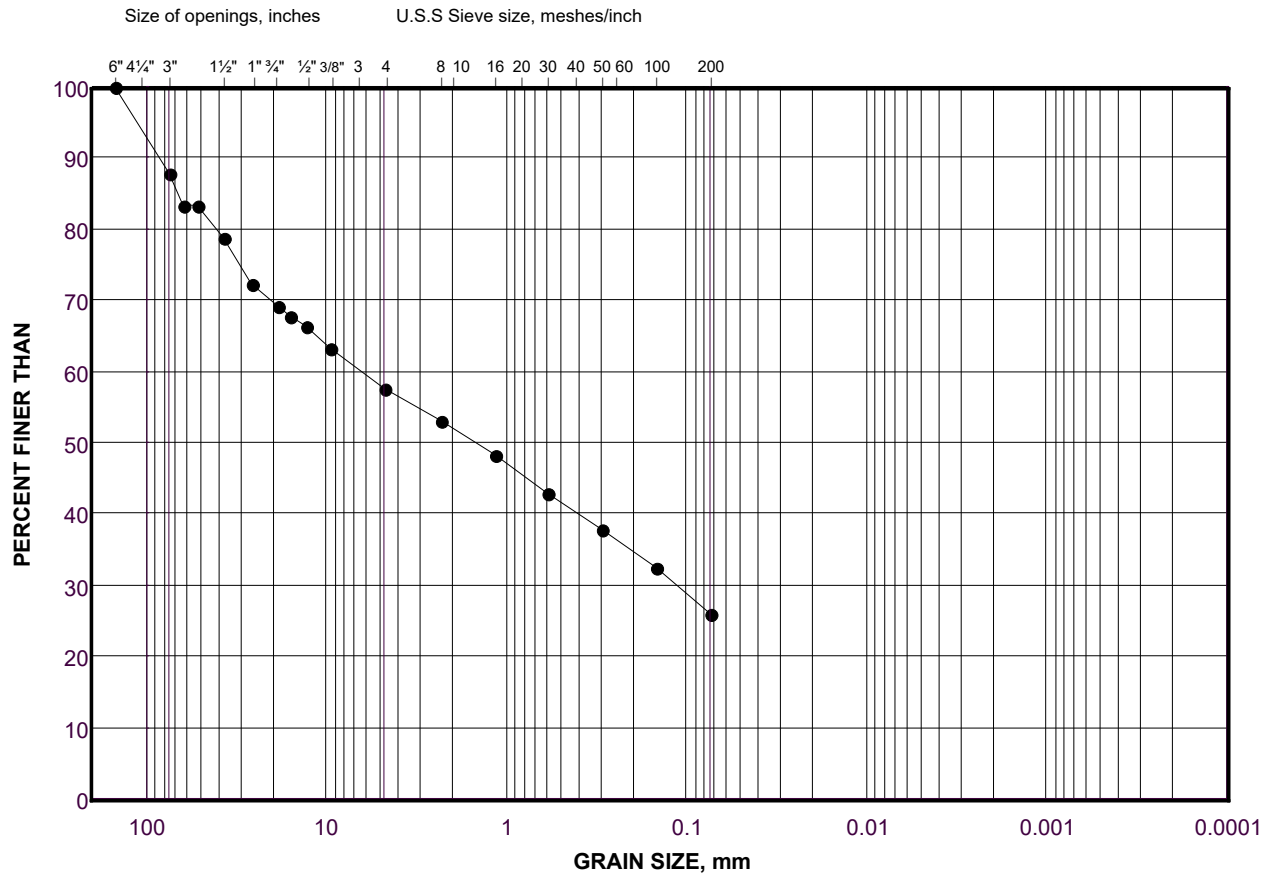
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 33 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-03 | Testing Date | 3/29/22 8:39:40 AM |
| Sample Number | 7 | Tested By | Sieve - LB |
| Checked By | _____ | LabID | 22-215 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-03 | 7 | 28.0 - 33.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 17900(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 1416.00 | 7.91 | 63.00 | 92.1 |
| 53mm | 1914.00 | 2.78 | 53.00 | 89.3 |
| 37.5mm | 3648.00 | 9.69 | 37.50 | 79.6 |
| 26.5mm | 4478.00 | 4.64 | 26.50 | 75.0 |
| 19.0mm | 5234.00 | 4.22 | 19.00 | 70.8 |
| 16mm | 5548.00 | 1.75 | 16.00 | 69.0 |
| 13.2mm | 5966.00 | 2.34 | 13.20 | 66.7 |
| 9.5mm | 6614.00 | 3.62 | 9.50 | 63.1 |
| 4.75mm | 7652.00 | 5.80 | 4.75 | 57.3 |
| PAN | 10248.00 | 57.25 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 18.77 | 3.30 | 2.36 | 54.0 |
| 1.18mm | 45.08 | 4.62 | 1.18 | 49.3 |
| 600µm | 74.68 | 5.20 | 0.60 | 44.1 |
| 300µm | 105.14 | 5.35 | 0.30 | 38.8 |
| 150µm | 138.57 | 5.87 | 0.15 | 32.9 |
| 75µm | 180.31 | 7.33 | 0.08 | 25.6 |

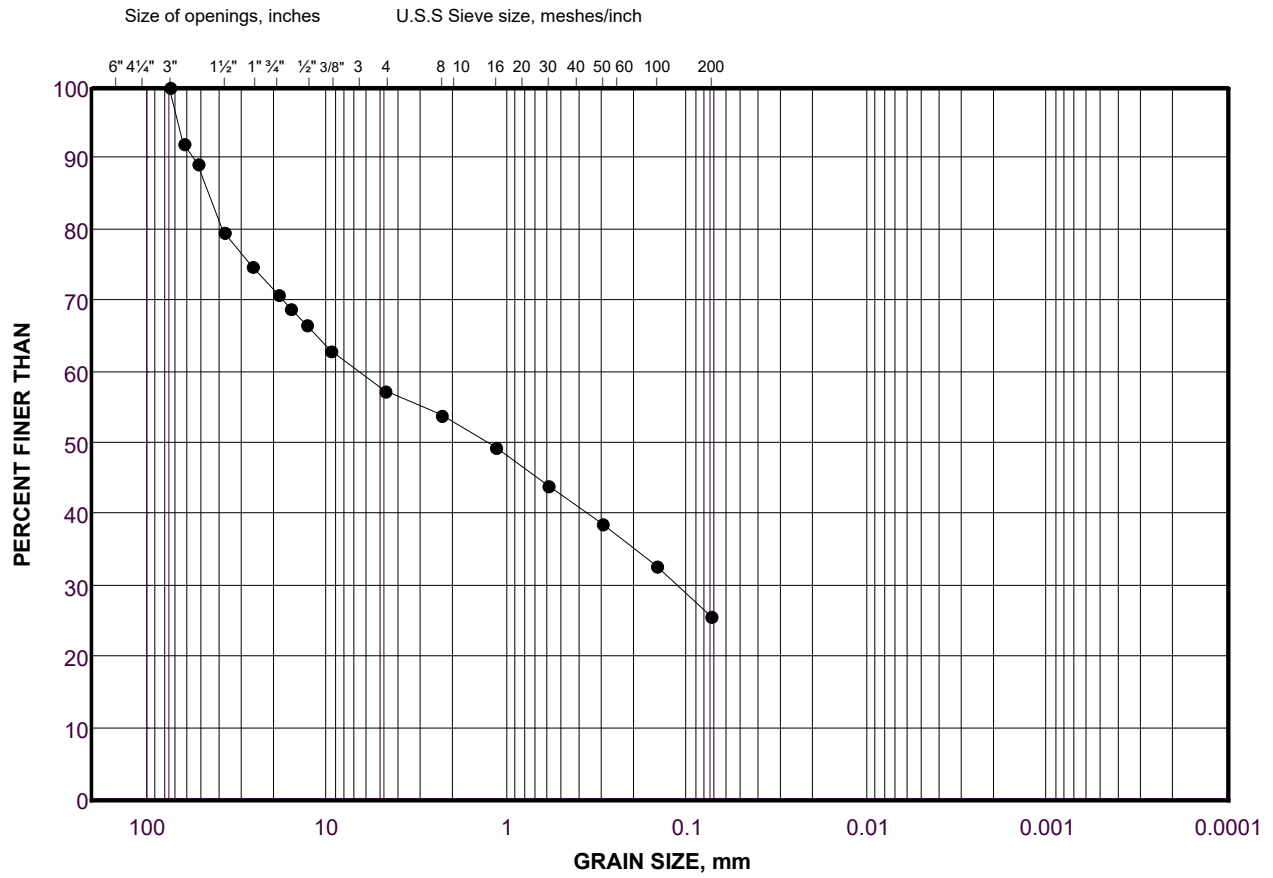
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 38 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-03 | Testing Date | 3/29/22 8:42:27 AM |
| Sample Number | 8 | Tested By | Sieve - JB |
| Checked By | _____ | LabID | 22-586 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-03 | 8 | 33.0 - 38.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 17462.8(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 197.40 | 1.13 | 53.00 | 98.9 |
| 37.5mm | 382.50 | 1.06 | 37.50 | 97.8 |
| 26.5mm | 677.80 | 1.69 | 26.50 | 96.1 |
| 19.0mm | 836.30 | 0.91 | 19.00 | 95.2 |
| 16mm | 1050.00 | 1.22 | 16.00 | 94.0 |
| 13.2mm | 1210.60 | 0.92 | 13.20 | 93.1 |
| 9.5mm | 1651.10 | 2.52 | 9.50 | 90.6 |
| 4.75mm | 3908.30 | 12.93 | 4.75 | 77.6 |
| PAN | 13496.20 | 77.62 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 44.80 | 12.52 | 2.36 | 65.1 |
| 1.18mm | 77.90 | 9.25 | 1.18 | 55.9 |
| 600µm | 99.50 | 6.04 | 0.60 | 49.8 |
| 300µm | 123.10 | 6.59 | 0.30 | 43.2 |
| 150µm | 150.20 | 7.57 | 0.15 | 35.7 |
| 75µm | 171.80 | 6.04 | 0.08 | 29.6 |

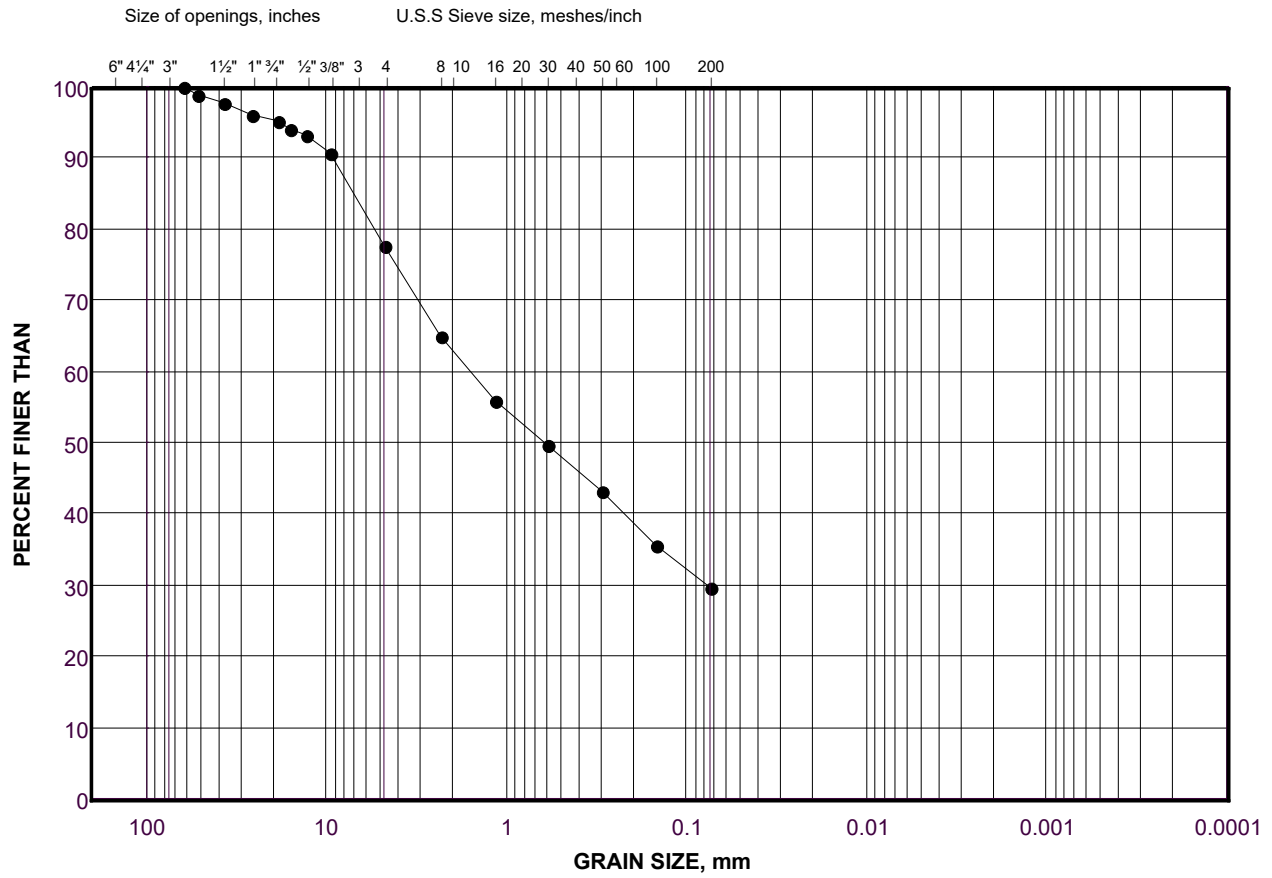
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 43 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-03 | Testing Date | 3/29/22 8:45:36 AM |
| Sample Number | 9 | Tested By | Sieve - AM |
| Checked By | _____ | LabID | 22-572 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-03 | 9 | 38.0 - 43.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 9315.4(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 0.00 | 0.00 | 37.50 | 100.0 |
| 26.5mm | 75.70 | 0.81 | 26.50 | 99.2 |
| 19.0mm | 222.90 | 1.58 | 19.00 | 97.6 |
| 16mm | 353.10 | 1.40 | 16.00 | 96.2 |
| 13.2mm | 428.90 | 0.81 | 13.20 | 95.4 |
| 9.5mm | 915.30 | 5.22 | 9.50 | 90.2 |
| 4.75mm | 2099.70 | 12.71 | 4.75 | 77.5 |
| PAN | 7179.00 | 77.47 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 47.70 | 13.87 | 2.36 | 63.6 |
| 1.18mm | 84.40 | 10.67 | 1.18 | 52.9 |
| 600µm | 109.30 | 7.24 | 0.60 | 45.7 |
| 300µm | 132.30 | 6.69 | 0.30 | 39.0 |
| 150µm | 159.50 | 7.91 | 0.15 | 31.1 |
| 75µm | 185.30 | 7.50 | 0.08 | 23.6 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-03
Sample Number 10A
Checked By _____

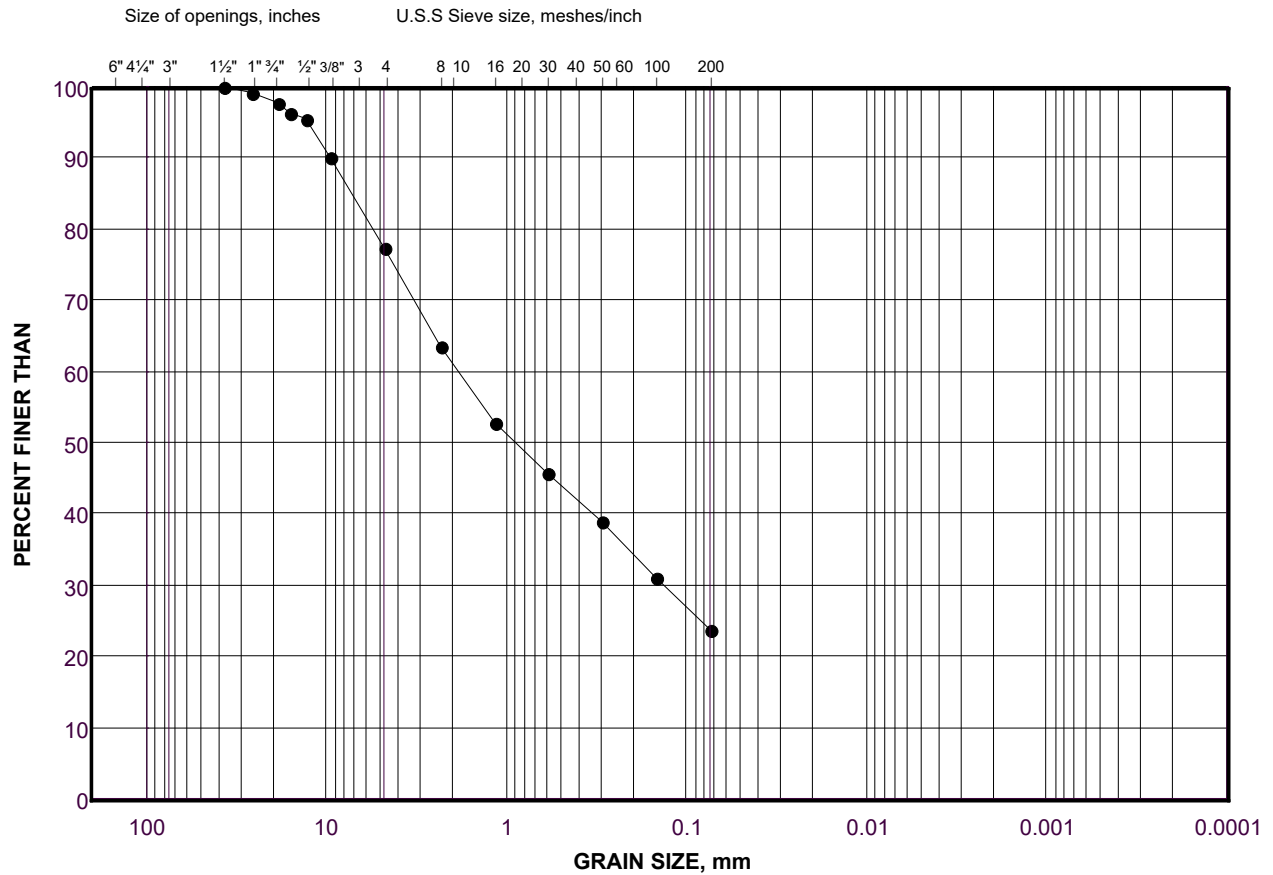
Depth 46
Units Imperial
Testing Date 3/29/22 8:47:52 AM
Tested By Sieve - TP
LabID 22-441

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-03 | 10A | 43.0 - 46.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 7570.7(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 818.70 | 10.81 | 75.00 | 89.2 |
| 63mm | 818.70 | 0.00 | 63.00 | 89.2 |
| 53mm | 818.70 | 0.00 | 53.00 | 89.2 |
| 37.5mm | 1124.40 | 4.04 | 37.50 | 85.2 |
| 26.5mm | 1275.70 | 2.00 | 26.50 | 83.2 |
| 19.0mm | 1605.80 | 4.36 | 19.00 | 78.8 |
| 16mm | 1737.80 | 1.74 | 16.00 | 77.1 |
| 13.2mm | 1878.00 | 1.85 | 13.20 | 75.2 |
| 9.5mm | 2155.20 | 3.66 | 9.50 | 71.5 |
| 4.75mm | 2634.70 | 6.33 | 4.75 | 65.2 |
| PAN | 4913.80 | 65.21 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 25.00 | 6.10 | 2.36 | 59.1 |
| 1.18mm | 50.40 | 6.19 | 1.18 | 52.9 |
| 600µm | 72.80 | 5.46 | 0.60 | 47.5 |
| 300µm | 94.70 | 5.34 | 0.30 | 42.1 |
| 150µm | 120.70 | 6.34 | 0.15 | 35.8 |
| 75µm | 150.50 | 7.27 | 0.08 | 28.5 |

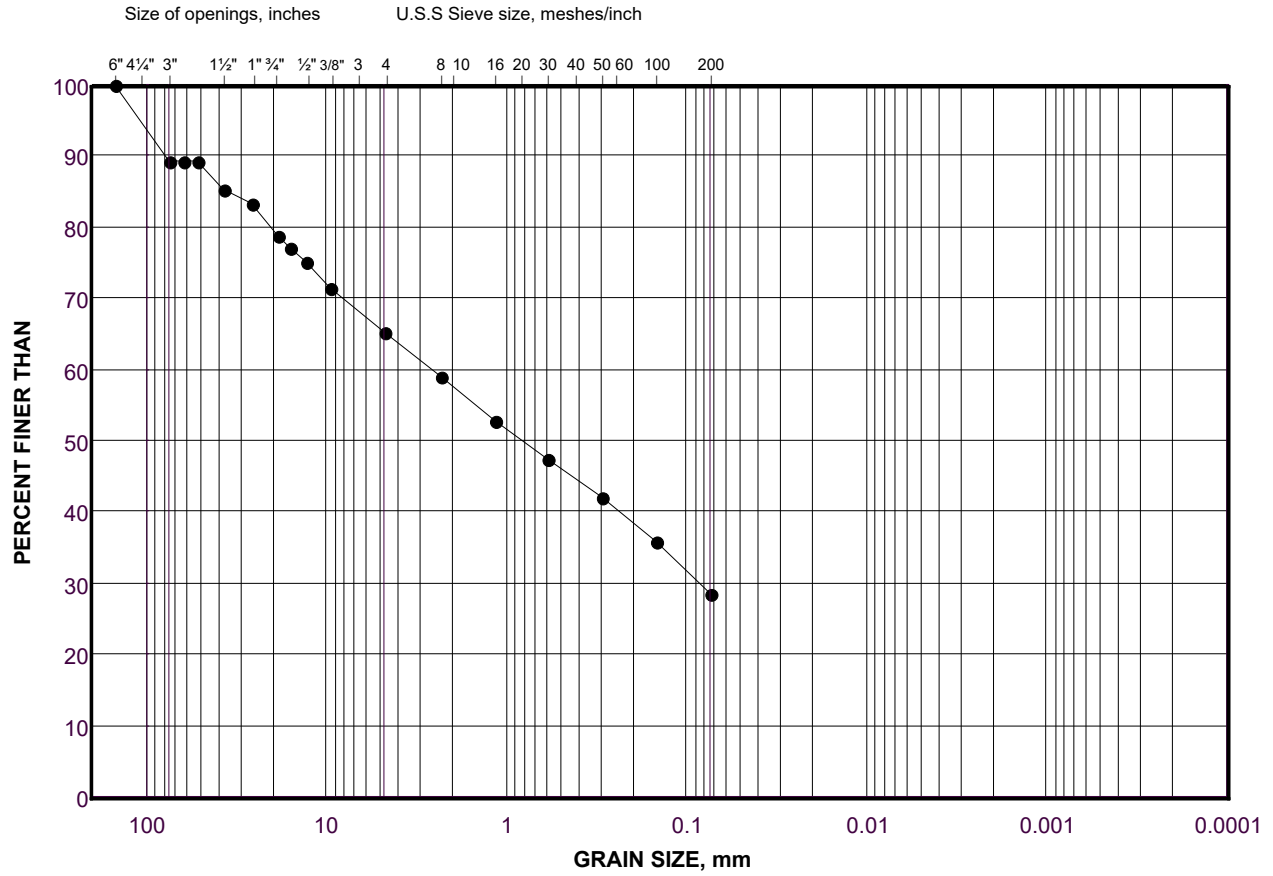
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 48 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-03 | Testing Date | 3/29/22 8:54:06 AM |
| Sample Number | 10B | Tested By | Sieve - TP |
| Checked By | _____ | LabID | 22-442 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-03 | 10B | 46.0 - 48.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 11722(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 462.00 | 3.94 | 63.00 | 96.1 |
| 53mm | 1122.00 | 5.63 | 53.00 | 90.4 |
| 37.5mm | 1478.00 | 3.04 | 37.50 | 87.4 |
| 26.5mm | 2010.00 | 4.54 | 26.50 | 82.9 |
| 19.0mm | 2456.00 | 3.80 | 19.00 | 79.1 |
| 16mm | 2576.00 | 1.02 | 16.00 | 78.0 |
| 13.2mm | 2824.00 | 2.12 | 13.20 | 75.9 |
| 9.5mm | 3356.00 | 4.54 | 9.50 | 71.4 |
| 4.75mm | 4280.00 | 7.88 | 4.75 | 63.5 |
| PAN | 7418.00 | 63.49 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 34.23 | 6.44 | 2.36 | 57.1 |
| 1.18mm | 71.56 | 7.02 | 1.18 | 50.0 |
| 600µm | 108.47 | 6.94 | 0.60 | 43.1 |
| 300µm | 143.62 | 6.61 | 0.30 | 36.5 |
| 150µm | 178.82 | 6.62 | 0.15 | 29.9 |
| 75µm | 201.91 | 4.34 | 0.08 | 25.5 |

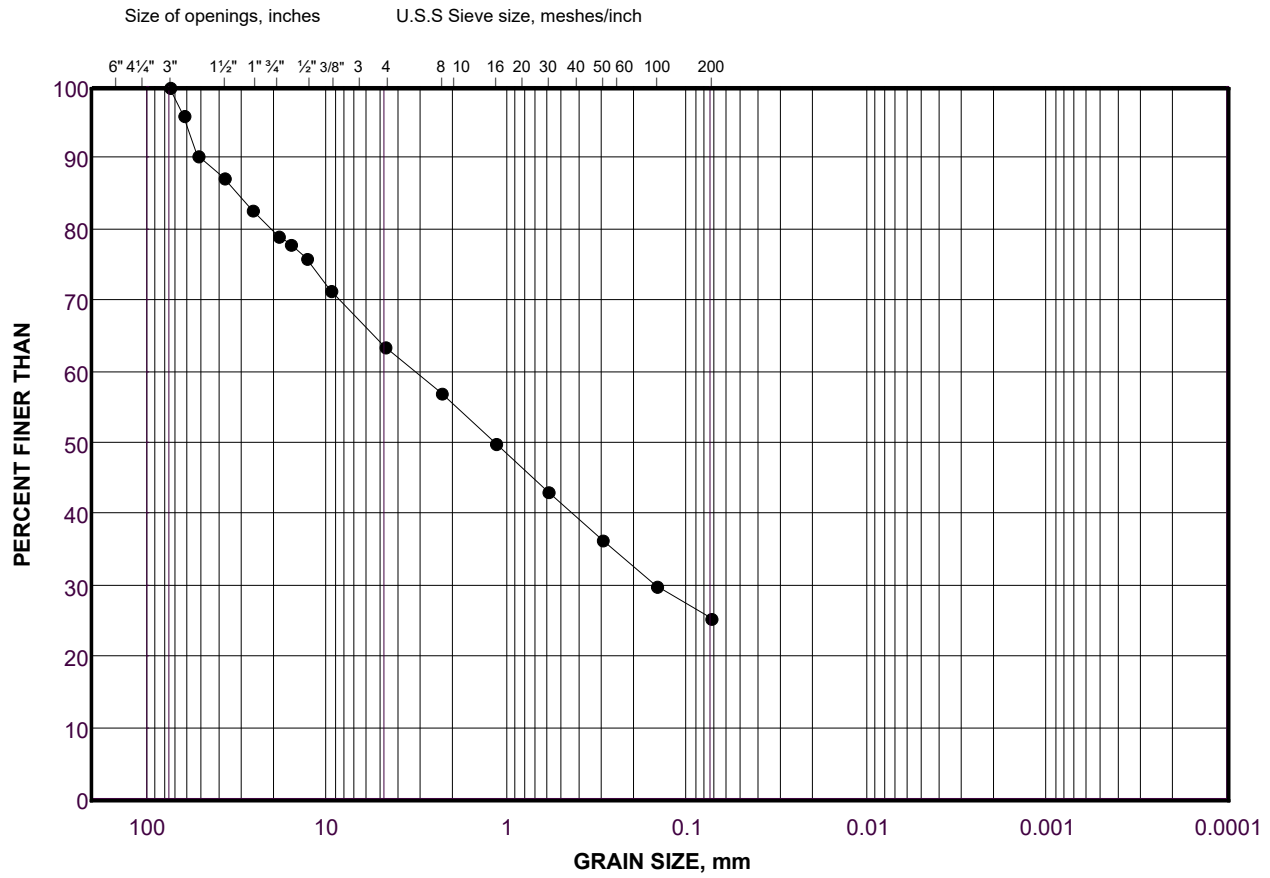
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 53 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-03 | Testing Date | 3/29/22 8:56:26 AM |
| Sample Number | 11 | Tested By | Sieve - JB |
| Checked By | _____ | LabID | 22-587 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-03 | 11 | 48.0 - 53.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 12030(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 604.00 | 5.02 | 63.00 | 95.0 |
| 53mm | 604.00 | 0.00 | 53.00 | 95.0 |
| 37.5mm | 1112.00 | 4.22 | 37.50 | 90.8 |
| 26.5mm | 2012.00 | 7.48 | 26.50 | 83.3 |
| 19.0mm | 2474.00 | 3.84 | 19.00 | 79.4 |
| 16mm | 2668.00 | 1.61 | 16.00 | 77.8 |
| 13.2mm | 2862.00 | 1.61 | 13.20 | 76.2 |
| 9.5mm | 3320.00 | 3.81 | 9.50 | 72.4 |
| 4.75mm | 4146.00 | 6.87 | 4.75 | 65.5 |
| PAN | 7872.00 | 65.54 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 27.66 | 5.22 | 2.36 | 60.3 |
| 1.18mm | 56.49 | 5.44 | 1.18 | 54.9 |
| 600µm | 86.52 | 5.67 | 0.60 | 49.2 |
| 300µm | 117.01 | 5.75 | 0.30 | 43.5 |
| 150µm | 150.21 | 6.26 | 0.15 | 37.2 |
| 75µm | 189.54 | 7.42 | 0.08 | 29.8 |

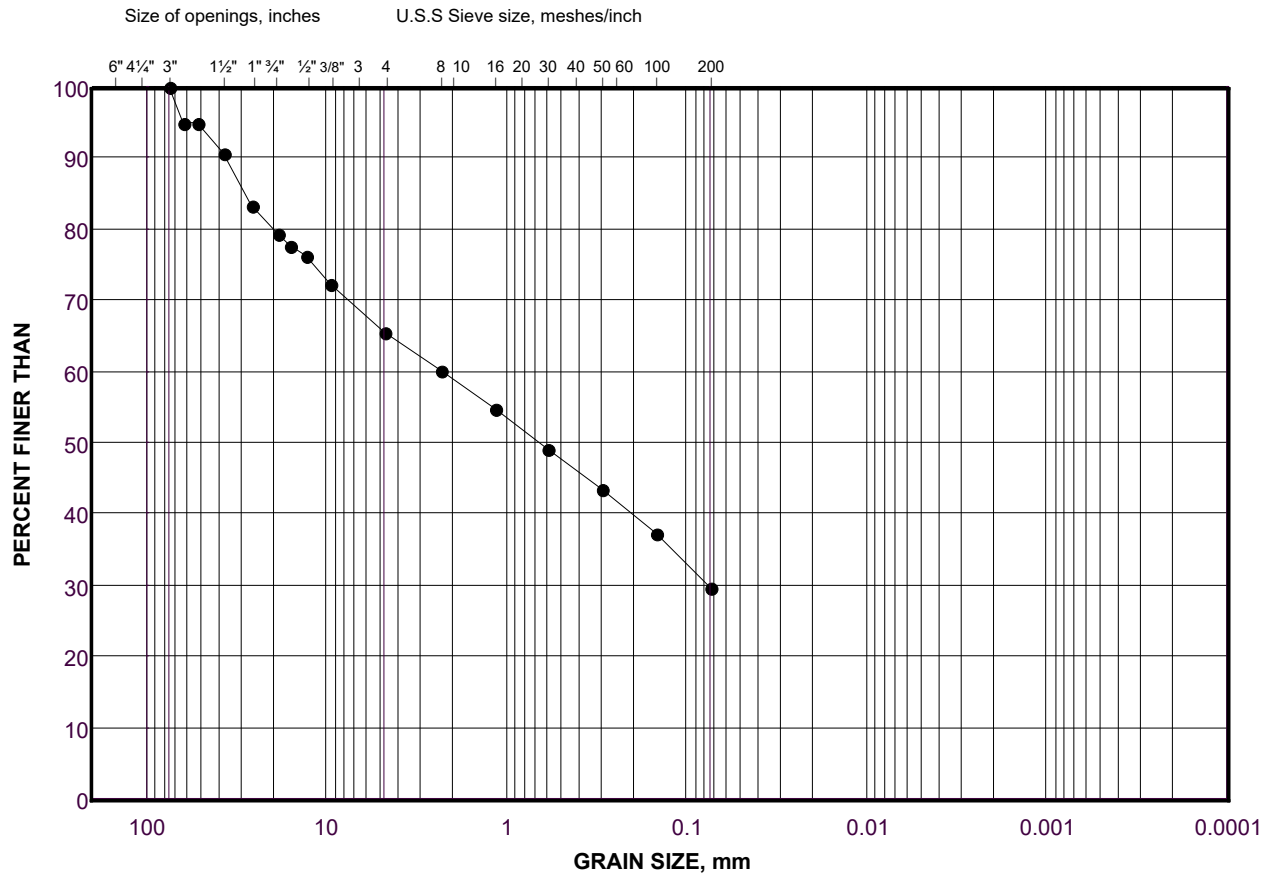
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 58 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-03 | Testing Date | 3/29/22 8:59:20 AM |
| Sample Number | 12 | Tested By | Sieve - JB |
| Checked By | _____ | LabID | 22-588 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-03 | 12 | 53.0 - 58.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 15606.4(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 184.20 | 1.18 | 37.50 | 98.8 |
| 26.5mm | 488.10 | 1.95 | 26.50 | 96.9 |
| 19.0mm | 1119.00 | 4.04 | 19.00 | 92.8 |
| 16mm | 1303.80 | 1.18 | 16.00 | 91.7 |
| 13.2mm | 1526.60 | 1.43 | 13.20 | 90.2 |
| 9.5mm | 1972.30 | 2.86 | 9.50 | 87.4 |
| 4.75mm | 2903.70 | 5.97 | 4.75 | 81.4 |
| PAN | 12702.70 | 81.39 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 24.20 | 6.95 | 2.36 | 74.4 |
| 1.18mm | 66.40 | 12.12 | 1.18 | 62.3 |
| 600µm | 129.00 | 17.97 | 0.60 | 44.4 |
| 300µm | 185.30 | 16.16 | 0.30 | 28.2 |
| 150µm | 210.90 | 7.35 | 0.15 | 20.8 |
| 75µm | 228.30 | 5.00 | 0.08 | 15.8 |

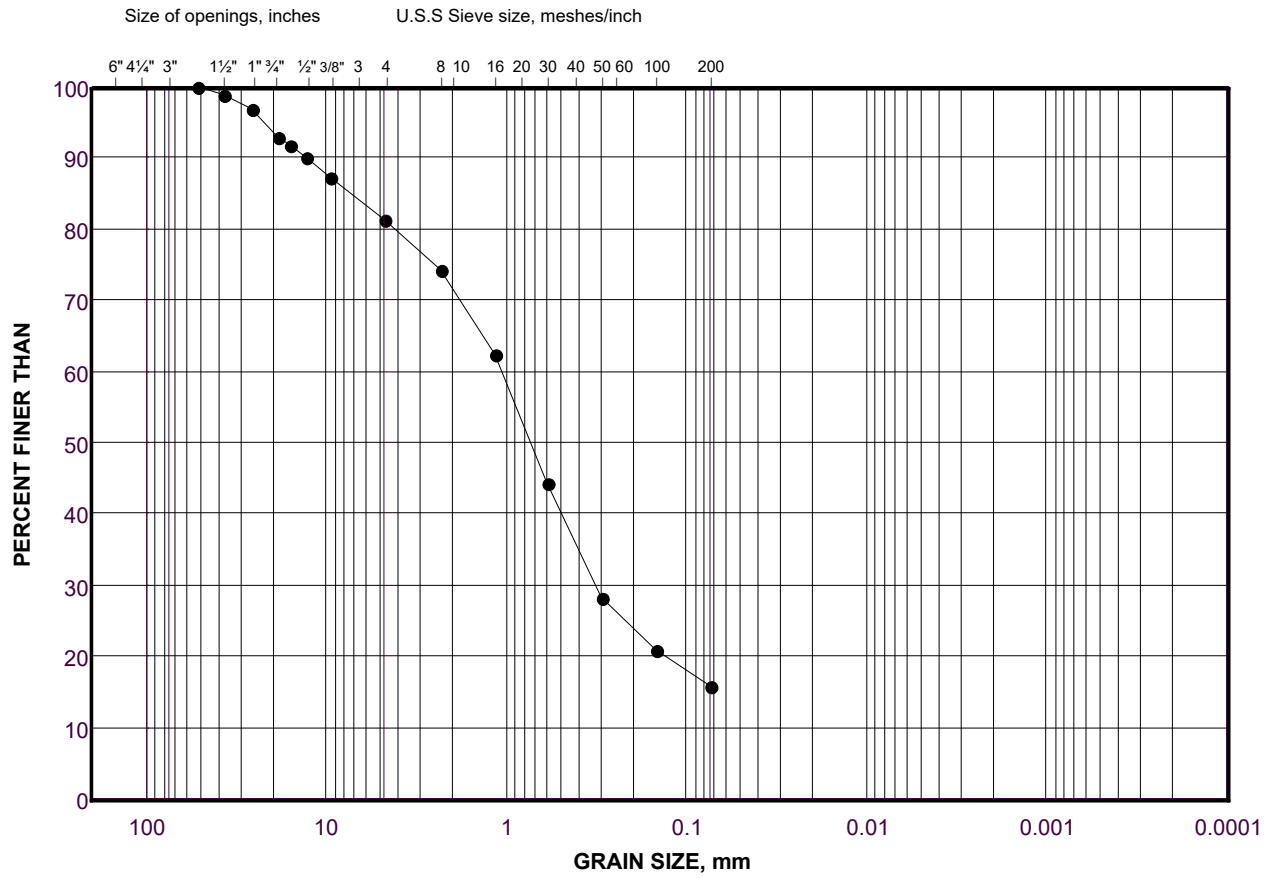
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 63 |
| Project Task | 1000 | Units | Metric |
| Borehole Number | MW 21-03 | Testing Date | 3/29/22 9:01:12 AM |
| Sample Number | 13 | Tested By | Sieve - |
| Checked By | _____ | LabID | 22-562 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(m) |
|--------|----------|--------|-------------|
| ● | MW 21-03 | 13 | 58.0 - 63.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 5593.9(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 119.20 | 2.13 | 37.50 | 97.9 |
| 26.5mm | 188.40 | 1.24 | 26.50 | 96.6 |
| 19.0mm | 320.90 | 2.37 | 19.00 | 94.3 |
| 16mm | 372.90 | 0.93 | 16.00 | 93.3 |
| 13.2mm | 439.70 | 1.19 | 13.20 | 92.1 |
| 9.5mm | 585.50 | 2.61 | 9.50 | 89.5 |
| 4.75mm | 1148.00 | 10.06 | 4.75 | 79.5 |
| PAN | 4437.00 | 79.47 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 47.70 | 13.67 | 2.36 | 65.8 |
| 1.18mm | 103.20 | 15.91 | 1.18 | 49.9 |
| 600µm | 147.30 | 12.64 | 0.60 | 37.3 |
| 300µm | 181.70 | 9.86 | 0.30 | 27.4 |
| 150µm | 202.40 | 5.93 | 0.15 | 21.5 |
| 75µm | 218.70 | 4.67 | 0.08 | 16.8 |

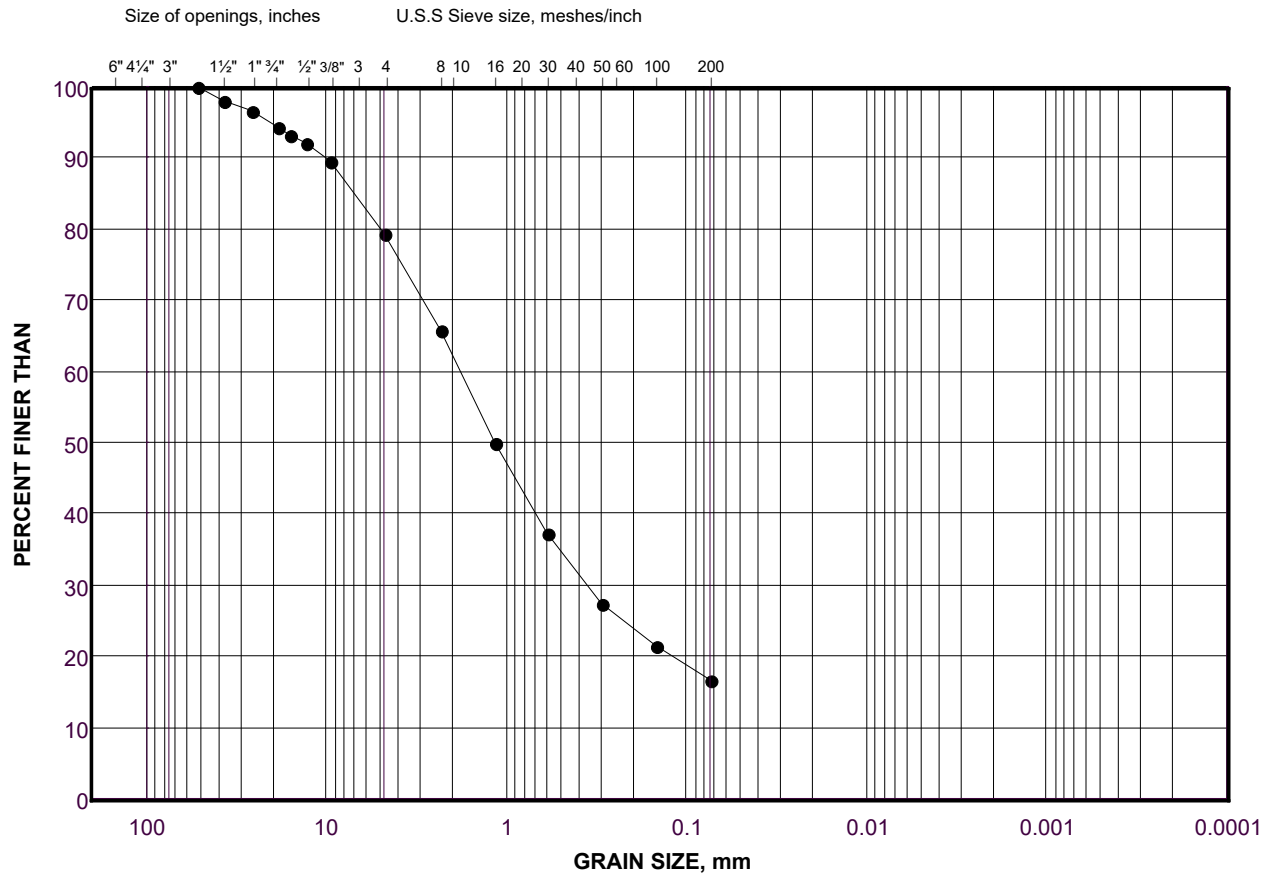
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 65.5 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-03 | Testing Date | 3/29/22 9:14:01 AM |
| Sample Number | 14A | Tested By | Sieve - TP |
| Checked By | _____ | LabID | 22-222 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|----------------|-------------|------|-----------|--------|------|---------------------|
| COBBLE SIZE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|--------------|
| • | MW 21-03 | 14A | 63.0 - 65.50 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 10929(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 2081.90 | 19.05 | 75.00 | 81.0 |
| 63mm | 2604.60 | 4.78 | 63.00 | 76.2 |
| 53mm | 2604.60 | 0.00 | 53.00 | 76.2 |
| 37.5mm | 3446.40 | 7.70 | 37.50 | 68.5 |
| 26.5mm | 4438.80 | 9.08 | 26.50 | 59.4 |
| 19.0mm | 5172.00 | 6.71 | 19.00 | 52.7 |
| 16mm | 5594.90 | 3.87 | 16.00 | 48.8 |
| 13.2mm | 5802.40 | 1.90 | 13.20 | 46.9 |
| 9.5mm | 6360.40 | 5.11 | 9.50 | 41.8 |
| 4.75mm | 7161.10 | 7.33 | 4.75 | 34.5 |
| PAN | 3745.20 | 34.47 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 55.00 | 6.71 | 2.36 | 27.8 |
| 1.18mm | 107.90 | 6.46 | 1.18 | 21.3 |
| 600µm | 157.50 | 6.05 | 0.60 | 15.3 |
| 300µm | 194.70 | 4.54 | 0.30 | 10.7 |
| 150µm | 220.30 | 3.12 | 0.15 | 7.6 |
| 75µm | 234.70 | 1.76 | 0.08 | 5.8 |

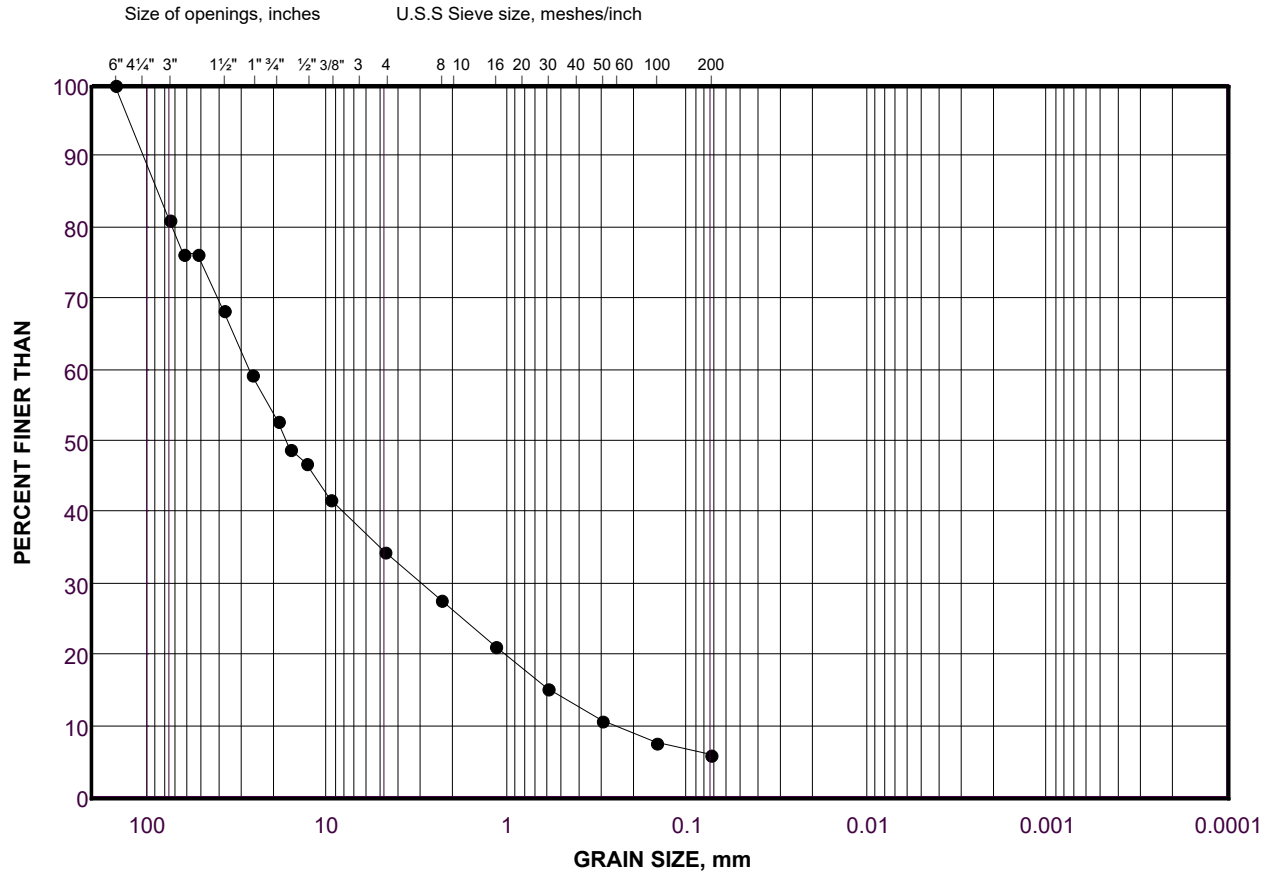
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 68 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-03 | Testing Date | 3/29/22 9:19:41 AM |
| Sample Number | 14B | Tested By | Sieve - TP |
| Checked By | _____ | LabID | 22-202 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-03 | 14B | 65.5 - 68.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 11406(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 1092.00 | 9.57 | 63.00 | 90.4 |
| 53mm | 1838.00 | 6.54 | 53.00 | 83.9 |
| 37.5mm | 2578.00 | 6.49 | 37.50 | 77.4 |
| 26.5mm | 3248.00 | 5.87 | 26.50 | 71.5 |
| 19.0mm | 3748.00 | 4.38 | 19.00 | 67.1 |
| 16mm | 3990.00 | 2.12 | 16.00 | 65.0 |
| 13.2mm | 4316.00 | 2.86 | 13.20 | 62.2 |
| 9.5mm | 4904.00 | 5.16 | 9.50 | 57.0 |
| 4.75mm | 5848.00 | 8.28 | 4.75 | 48.7 |
| PAN | 5528.00 | 48.73 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 47.38 | 6.56 | 2.36 | 42.2 |
| 1.18mm | 97.58 | 6.95 | 1.18 | 35.2 |
| 600µm | 146.05 | 6.71 | 0.60 | 28.5 |
| 300µm | 189.76 | 6.05 | 0.30 | 22.5 |
| 150µm | 223.19 | 4.63 | 0.15 | 17.8 |
| 75µm | 250.90 | 3.83 | 0.08 | 14.0 |

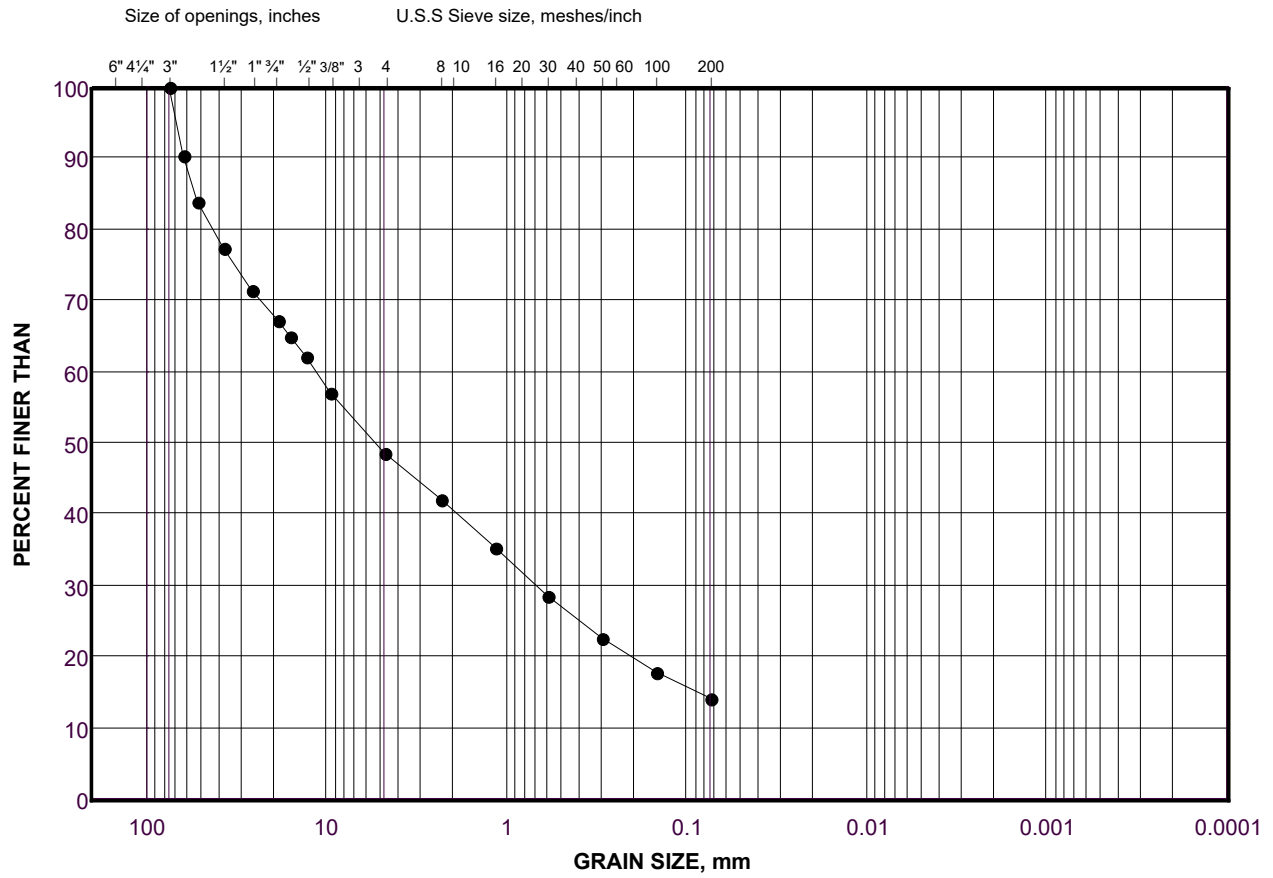
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 73 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW21-03 | Testing Date | 3/29/22 9:23:03 AM |
| Sample Number | 15 | Tested By | Sieve - JB |
| Checked By | _____ | LabID | 22-589 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW21-03 | 15 | 68.0 - 73.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 16900(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1024.00 | 6.06 | 75.00 | 93.9 |
| 63mm | 2580.00 | 9.21 | 63.00 | 84.7 |
| 53mm | 4628.00 | 12.12 | 53.00 | 72.6 |
| 37.5mm | 6870.00 | 13.27 | 37.50 | 59.3 |
| 26.5mm | 8406.00 | 9.09 | 26.50 | 50.3 |
| 19.0mm | 10296.00 | 11.18 | 19.00 | 39.1 |
| 16mm | 10880.00 | 3.46 | 16.00 | 35.6 |
| 13.2mm | 11472.00 | 3.50 | 13.20 | 32.1 |
| 9.5mm | 12382.00 | 5.38 | 9.50 | 26.7 |
| 4.75mm | 13508.00 | 6.66 | 4.75 | 20.1 |
| PAN | 3354.00 | 20.07 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 64.35 | 3.90 | 2.36 | 16.2 |
| 1.18mm | 122.11 | 3.50 | 1.18 | 12.7 |
| 600µm | 173.65 | 3.12 | 0.60 | 9.5 |
| 300µm | 214.47 | 2.47 | 0.30 | 7.1 |
| 150µm | 243.16 | 1.74 | 0.15 | 5.3 |
| 75µm | 263.15 | 1.21 | 0.08 | 4.1 |

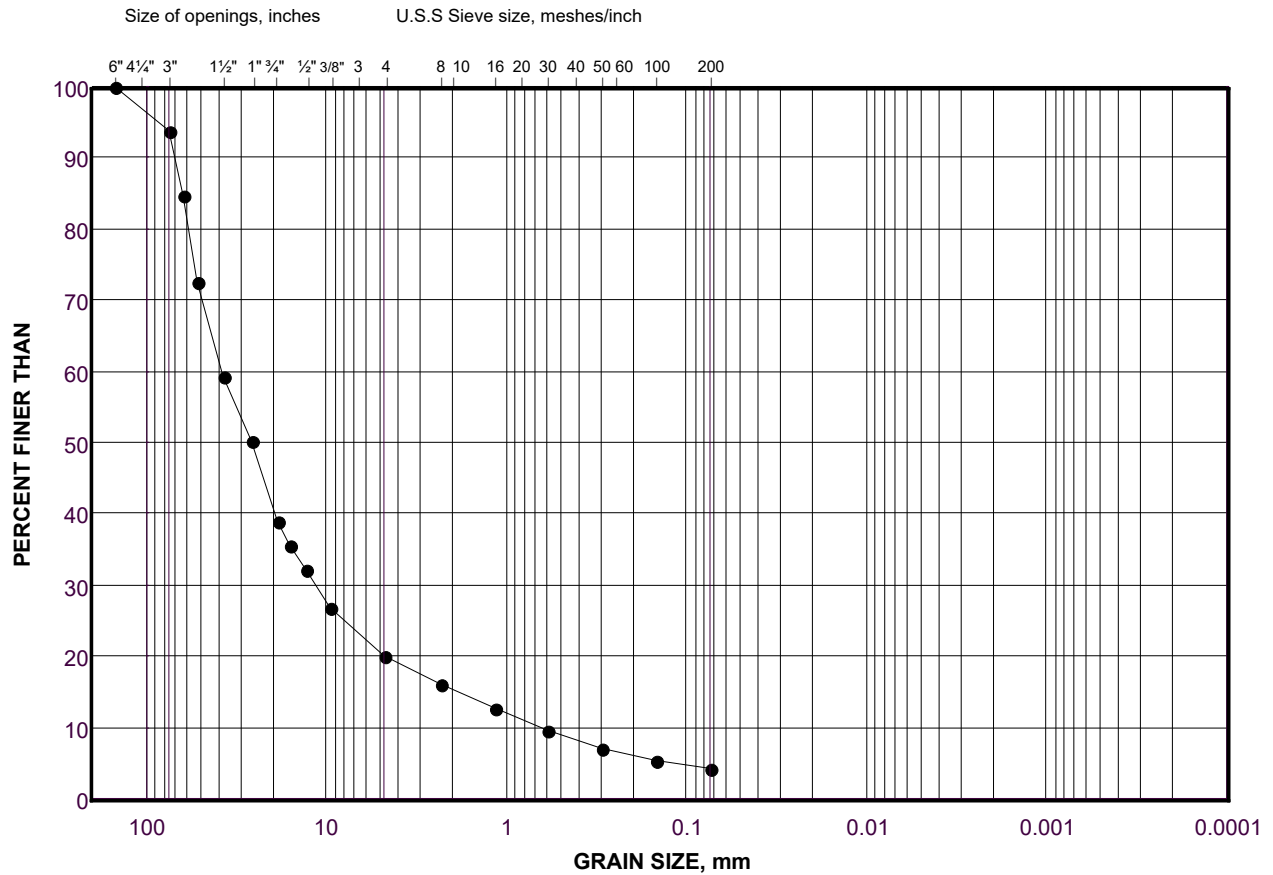
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 73 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-03 | Testing Date | 3/29/22 9:28:30 AM |
| Sample Number | 16 | Tested By | Sieve - JB |
| Checked By | _____ | LabID | 22-590 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|----------------|-------------|------|-----------|--------|------|---------------------|
| COBBLE SIZE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | MW 21-03 | 16 | 73.0 - 78.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 22242(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 3482.00 | 15.66 | 75.00 | 84.3 |
| 63mm | 5460.00 | 8.89 | 63.00 | 75.5 |
| 53mm | 5460.00 | 0.00 | 53.00 | 75.5 |
| 37.5mm | 9250.00 | 17.04 | 37.50 | 58.4 |
| 26.5mm | 11352.00 | 9.45 | 26.50 | 49.0 |
| 19.0mm | 13118.00 | 7.94 | 19.00 | 41.0 |
| 16mm | 13890.00 | 3.47 | 16.00 | 37.6 |
| 13.2mm | 14418.00 | 2.37 | 13.20 | 35.2 |
| 9.5mm | 15472.00 | 4.74 | 9.50 | 30.4 |
| 4.75mm | 16910.00 | 6.47 | 4.75 | 24.0 |
| PAN | 5320.00 | 23.97 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 43.24 | 3.10 | 2.36 | 20.9 |
| 1.18mm | 96.76 | 3.83 | 1.18 | 17.0 |
| 600µm | 140.26 | 3.11 | 0.60 | 13.9 |
| 300µm | 186.60 | 3.32 | 0.30 | 10.6 |
| 150µm | 220.55 | 2.43 | 0.15 | 8.2 |
| 75µm | 259.02 | 2.75 | 0.08 | 5.4 |

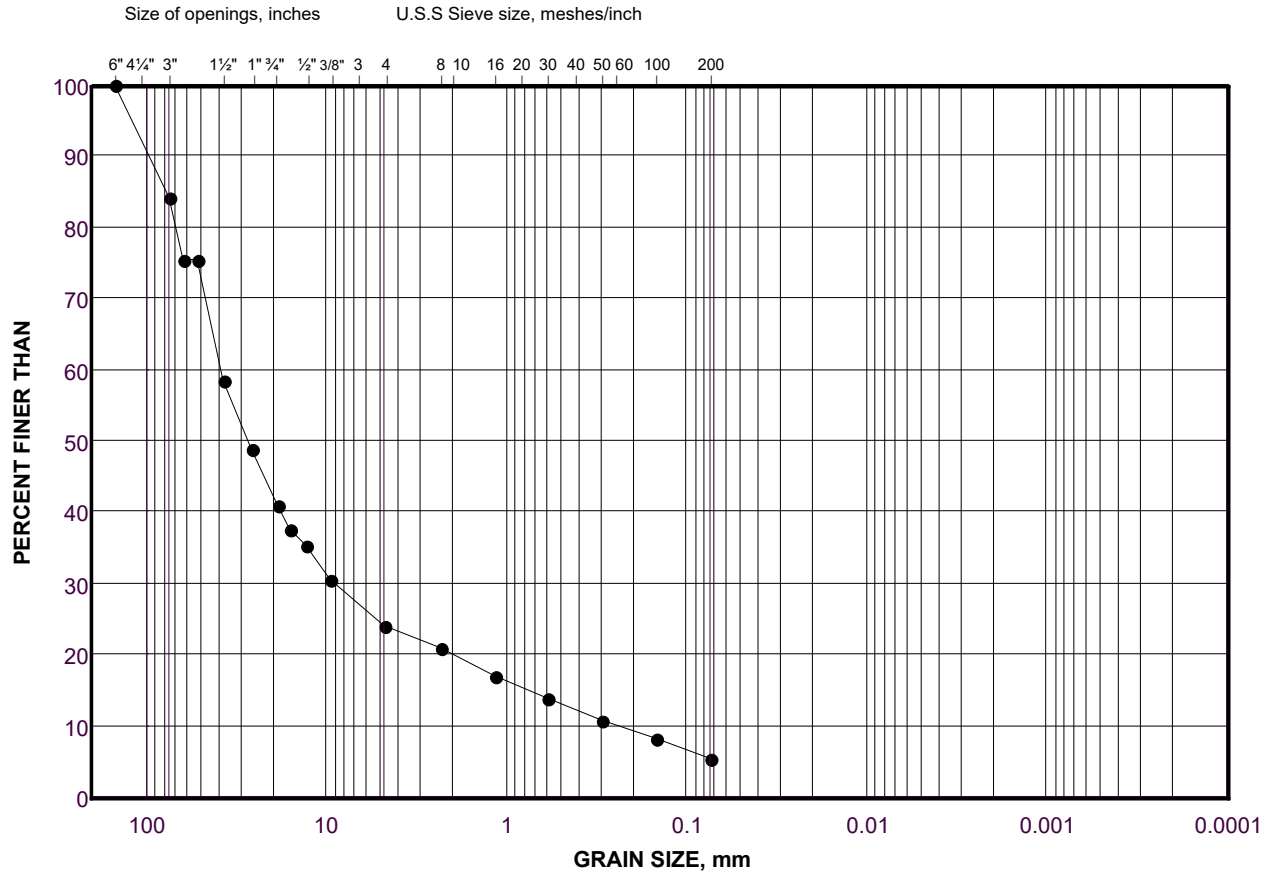
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 83 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-03 | Testing Date | 3/29/22 9:31:38 AM |
| Sample Number | 17 | Tested By | Sieve - JB |
| Checked By | _____ | LabID | 22-591 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-03 | 17 | 78.0 - 83.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 10428(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 872.00 | 8.36 | 63.00 | 91.6 |
| 53mm | 872.00 | 0.00 | 53.00 | 91.6 |
| 37.5mm | 1138.00 | 2.55 | 37.50 | 89.1 |
| 26.5mm | 1422.00 | 2.72 | 26.50 | 86.4 |
| 19.0mm | 1684.00 | 2.51 | 19.00 | 83.9 |
| 16mm | 1864.00 | 1.73 | 16.00 | 82.1 |
| 13.2mm | 1946.00 | 0.79 | 13.20 | 81.3 |
| 9.5mm | 2156.00 | 2.01 | 9.50 | 79.3 |
| 4.75mm | 2544.00 | 3.72 | 4.75 | 75.6 |
| PAN | 7882.00 | 75.61 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 12.97 | 2.93 | 2.36 | 72.7 |
| 1.18mm | 28.30 | 3.46 | 1.18 | 69.2 |
| 600µm | 44.17 | 3.58 | 0.60 | 65.6 |
| 300µm | 64.02 | 4.48 | 0.30 | 61.2 |
| 150µm | 88.33 | 5.48 | 0.15 | 55.7 |
| 75µm | 112.81 | 5.52 | 0.08 | 50.2 |

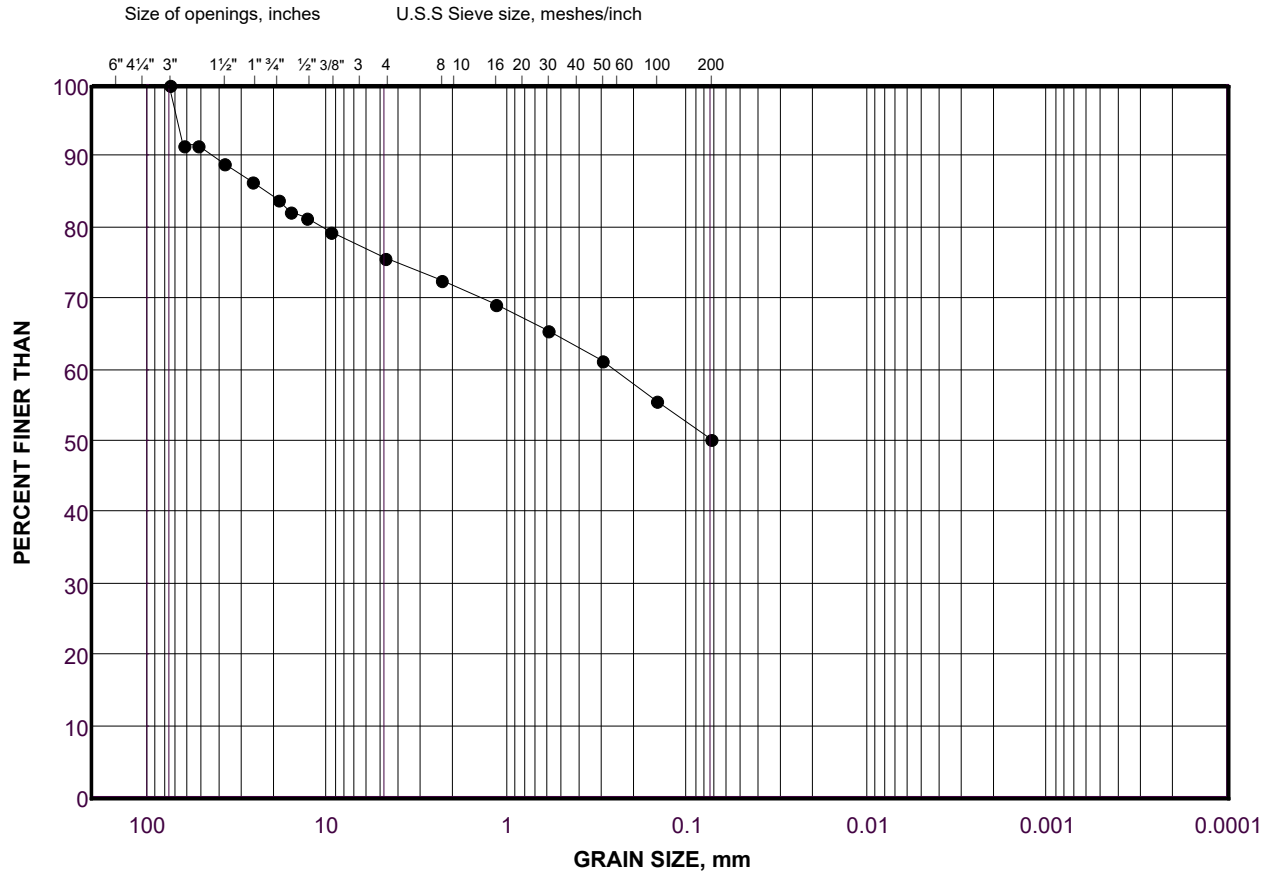
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 4 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-04 | Testing Date | 3/29/22 9:56:16 AM |
| Sample Number | 1 | Tested By | Sieve - JB |
| Checked By | _____ | LabID | 22-575 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-----------|
| • | MW 21-04 | 1 | 0.0 - 4.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 13008(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 888.00 | 6.83 | 53.00 | 93.2 |
| 37.5mm | 1446.00 | 4.29 | 37.50 | 88.9 |
| 26.5mm | 1970.00 | 4.03 | 26.50 | 84.9 |
| 19.0mm | 2290.00 | 2.46 | 19.00 | 82.4 |
| 16mm | 2464.00 | 1.34 | 16.00 | 81.1 |
| 13.2mm | 2648.00 | 1.41 | 13.20 | 79.6 |
| 9.5mm | 3014.00 | 2.81 | 9.50 | 76.8 |
| 4.75mm | 3656.00 | 4.94 | 4.75 | 71.9 |
| PAN | 9292.00 | 71.89 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 18.20 | 3.96 | 2.36 | 67.9 |
| 1.18mm | 38.14 | 4.34 | 1.18 | 63.6 |
| 600µm | 62.19 | 5.23 | 0.60 | 58.4 |
| 300µm | 89.89 | 6.03 | 0.30 | 52.3 |
| 150µm | 117.51 | 6.01 | 0.15 | 46.3 |
| 75µm | 143.05 | 5.56 | 0.08 | 40.8 |

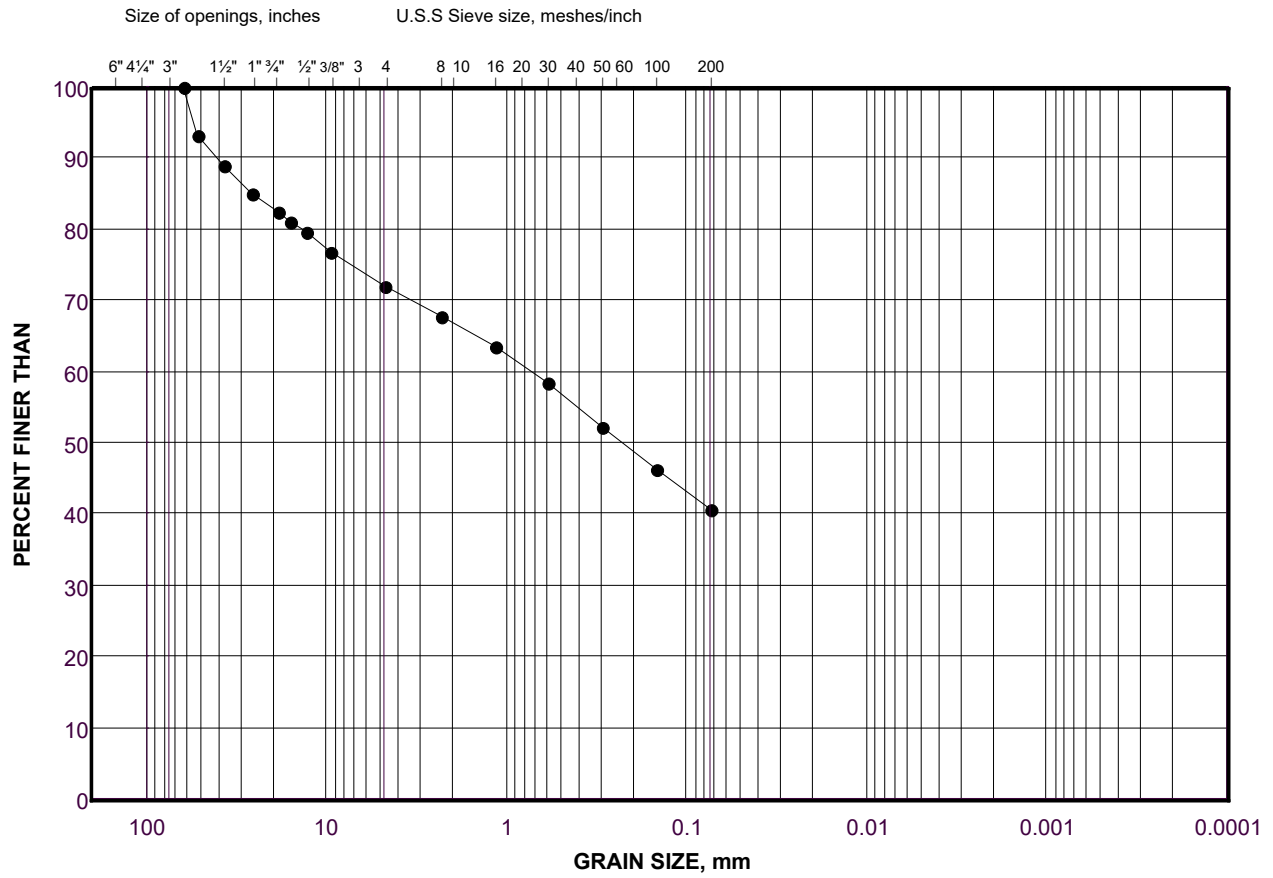
| | | | |
|-----------------|----------|--------------|---------------------|
| Project Number | 21476582 | Depth | 9 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-04 | Testing Date | 3/29/22 10:11:10 AM |
| Sample Number | 2 | Tested By | Sieve - JB |
| Checked By | _____ | LabID | 22-576 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-----------|
| ● | MW 21-04 | 2 | 4.0 - 9.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 3951(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 26.5mm | 0.00 | 0.00 | 26.50 | 100.0 |
| 19.0mm | 20.10 | 0.51 | 19.00 | 99.5 |
| 16mm | 36.20 | 0.41 | 16.00 | 99.1 |
| 13.2mm | 48.30 | 0.31 | 13.20 | 98.8 |
| 9.5mm | 81.90 | 0.85 | 9.50 | 97.9 |
| 4.75mm | 227.30 | 3.68 | 4.75 | 94.2 |
| PAN | 3723.40 | 94.24 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 13.70 | 4.29 | 2.36 | 90.0 |
| 1.18mm | 32.40 | 5.86 | 1.18 | 84.1 |
| 600µm | 53.00 | 6.45 | 0.60 | 77.6 |
| 300µm | 75.30 | 6.98 | 0.30 | 70.7 |
| 150µm | 98.00 | 7.11 | 0.15 | 63.6 |
| 75µm | 121.60 | 7.39 | 0.08 | 56.2 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-04
Sample Number 3A
Checked By _____

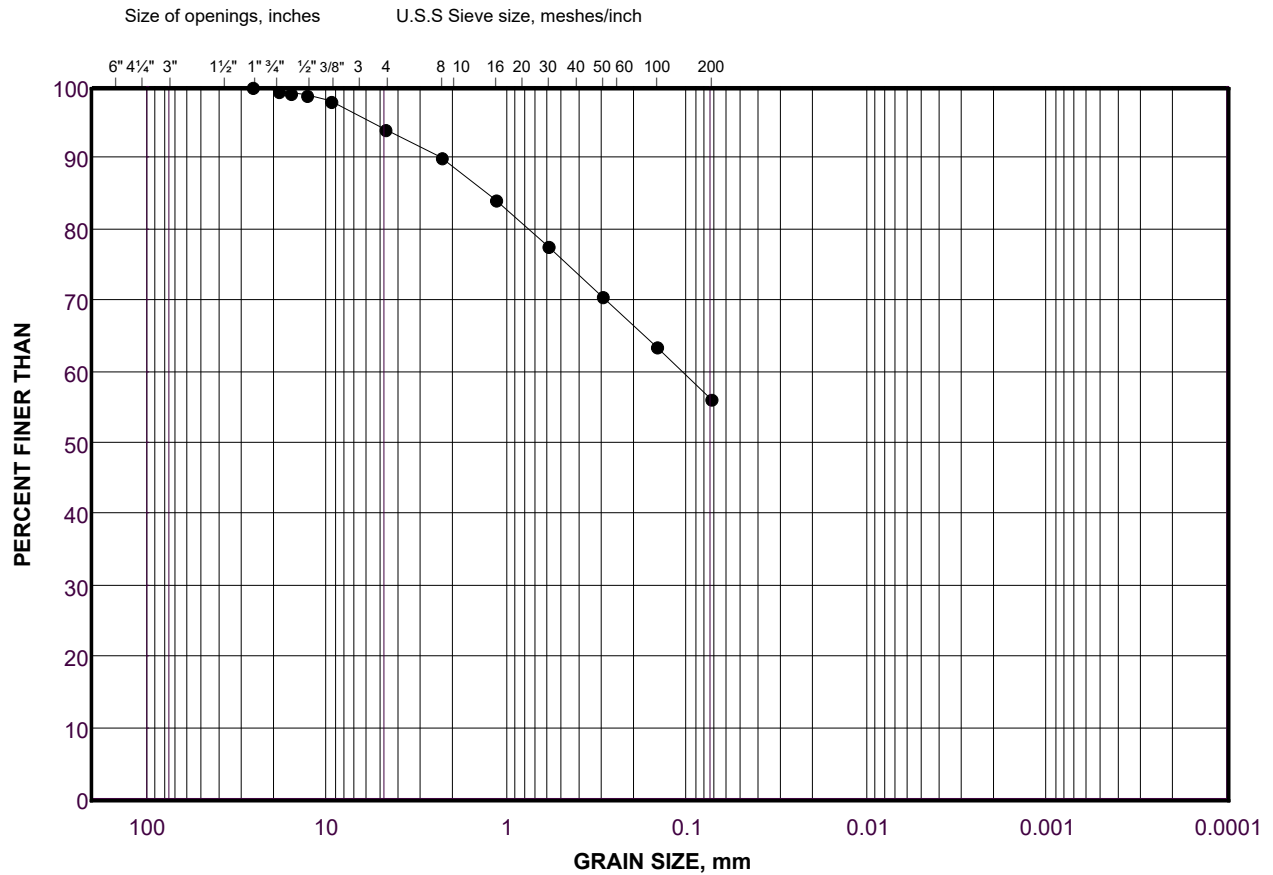
Depth 10
Units Imperial
Testing Date 3/08/22 2:00:46 PM
Tested By Sieve - AM
LabID 22-432

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |
| SIZE | | | | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|------------|
| ● | MW 21-04 | 3A | 9.0 - 10.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 14764.5(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 897.20 | 6.08 | 75.00 | 93.9 |
| 63mm | 2469.00 | 10.65 | 63.00 | 83.3 |
| 53mm | 3017.50 | 3.71 | 53.00 | 79.6 |
| 37.5mm | 4308.40 | 8.74 | 37.50 | 70.8 |
| 26.5mm | 5440.50 | 7.67 | 26.50 | 63.2 |
| 19.0mm | 6563.50 | 7.61 | 19.00 | 55.5 |
| 16mm | 6921.60 | 2.43 | 16.00 | 53.1 |
| 13.2mm | 7289.90 | 2.49 | 13.20 | 50.6 |
| 9.5mm | 7957.40 | 4.52 | 9.50 | 46.1 |
| 4.75mm | 8901.70 | 6.40 | 4.75 | 39.7 |
| PAN | 5842.20 | 39.70 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 40.70 | 5.50 | 2.36 | 34.2 |
| 1.18mm | 82.60 | 5.67 | 1.18 | 28.5 |
| 600µm | 123.00 | 5.46 | 0.60 | 23.1 |
| 300µm | 162.40 | 5.33 | 0.30 | 17.7 |
| 150µm | 191.80 | 3.98 | 0.15 | 13.8 |
| 75µm | 211.80 | 2.70 | 0.08 | 11.1 |

Project Number 21476582
Project Task 1000
Borehole Number MW- 21-04
Sample Number 3B
Checked By _____

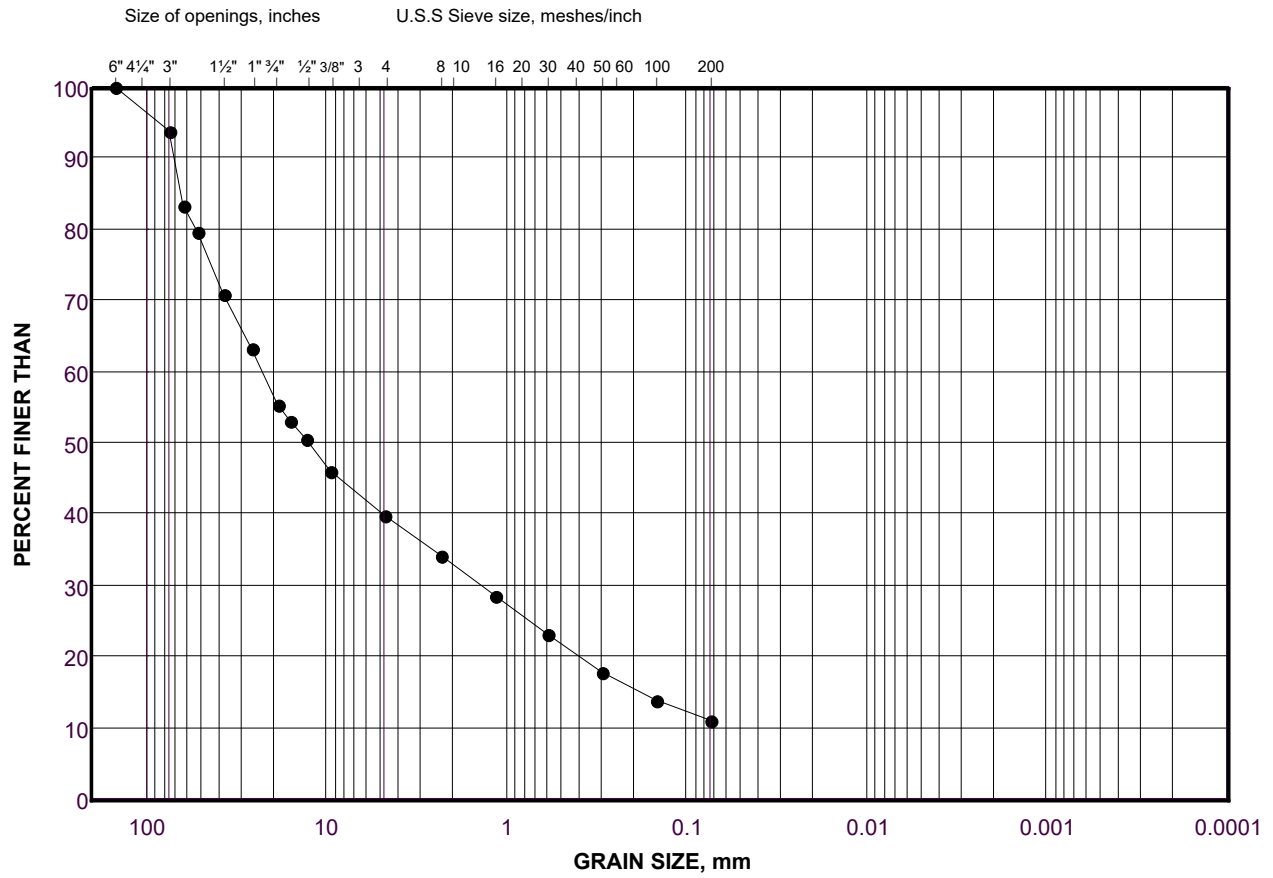
Depth 14
Units Imperial
Testing Date 3/08/22 2:10:12 PM
Tested By Sieve - LB
LabID 22-431

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|-----------|--------|-------------|
| ● | MW- 21-04 | 3B | 10.0 - 14.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 15690(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1400.00 | 8.92 | 75.00 | 91.1 |
| 63mm | 2108.00 | 4.51 | 63.00 | 86.6 |
| 53mm | 2916.00 | 5.15 | 53.00 | 81.4 |
| 37.5mm | 5004.00 | 13.31 | 37.50 | 68.1 |
| 26.5mm | 6584.00 | 10.07 | 26.50 | 58.0 |
| 19.0mm | 7630.00 | 6.67 | 19.00 | 51.4 |
| 16mm | 8200.00 | 3.63 | 16.00 | 47.7 |
| 13.2mm | 8620.00 | 2.68 | 13.20 | 45.1 |
| 9.5mm | 9378.00 | 4.83 | 9.50 | 40.2 |
| 4.75mm | 10660.00 | 8.17 | 4.75 | 32.1 |
| PAN | 5012.00 | 32.06 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 63.69 | 5.88 | 2.36 | 26.2 |
| 1.18mm | 119.77 | 5.18 | 1.18 | 21.0 |
| 600µm | 166.56 | 4.32 | 0.60 | 16.7 |
| 300µm | 214.45 | 4.42 | 0.30 | 12.3 |
| 150µm | 252.89 | 3.55 | 0.15 | 8.7 |
| 75µm | 274.87 | 2.03 | 0.08 | 6.7 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-04
Sample Number 4
Checked By _____

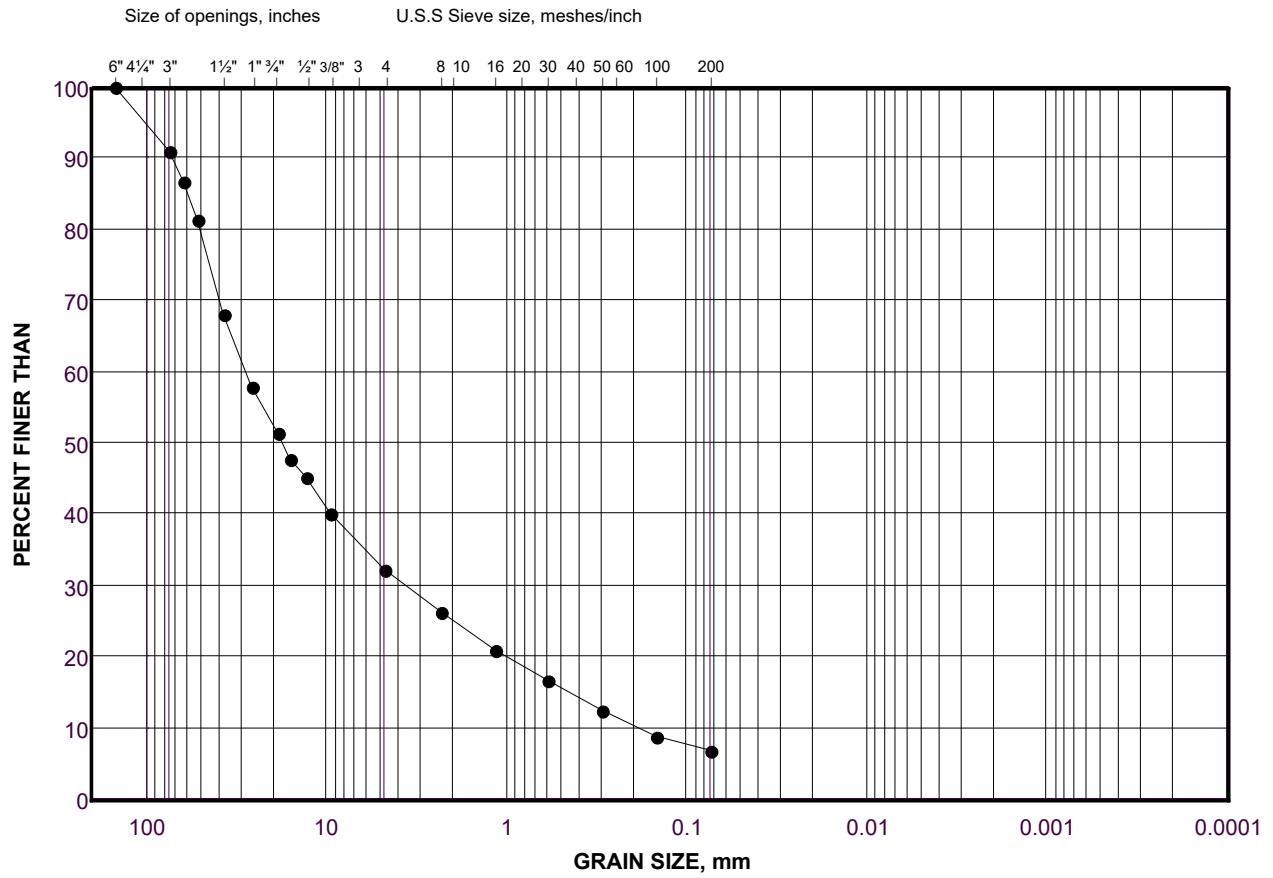
Depth 19
Units Imperial
Testing Date 3/29/22 10:14:02 AM
Tested By Sieve - JB
LabID 22-577

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | MW 21-04 | 4 | 14.0 - 19.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 7998.9(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 315.00 | 3.94 | 53.00 | 96.1 |
| 37.5mm | 579.80 | 3.31 | 37.50 | 92.8 |
| 26.5mm | 1383.90 | 10.05 | 26.50 | 82.7 |
| 19.0mm | 2041.40 | 8.22 | 19.00 | 74.5 |
| 16mm | 2251.90 | 2.63 | 16.00 | 71.9 |
| 13.2mm | 2540.10 | 3.60 | 13.20 | 68.3 |
| 9.5mm | 3033.80 | 6.17 | 9.50 | 62.1 |
| 4.75mm | 4016.30 | 12.28 | 4.75 | 49.8 |
| PAN | 3982.60 | 49.80 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 42.20 | 8.34 | 2.36 | 41.5 |
| 1.18mm | 88.90 | 9.23 | 1.18 | 32.2 |
| 600µm | 124.40 | 7.01 | 0.60 | 25.2 |
| 300µm | 155.60 | 6.16 | 0.30 | 19.1 |
| 150µm | 178.80 | 4.58 | 0.15 | 14.5 |
| 75µm | 195.30 | 3.26 | 0.08 | 11.2 |

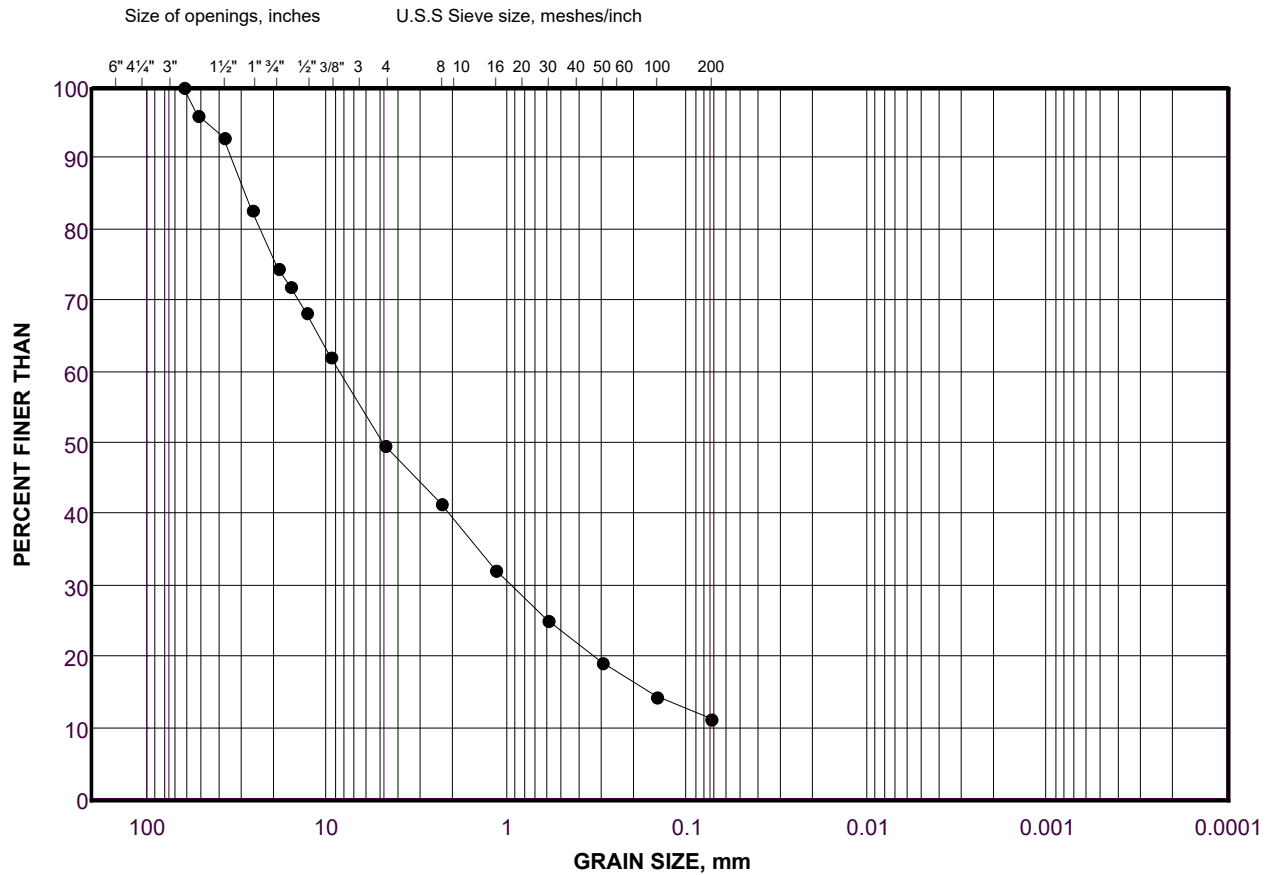
| | | | |
|-----------------|----------|--------------|---------------------|
| Project Number | 21476582 | Depth | 24 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-04 | Testing Date | 3/29/22 10:19:40 AM |
| Sample Number | 5 | Tested By | Sieve - LB |
| Checked By | _____ | LabID | 22-564 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|----------------|-------------|------|-----------|--------|------|---------------------|
| COBBLE SIZE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | MW 21-04 | 5 | 19.0 - 24.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 8771.1(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 1708.10 | 19.47 | 63.00 | 80.5 |
| 53mm | 2795.80 | 12.40 | 53.00 | 68.1 |
| 37.5mm | 2890.70 | 1.08 | 37.50 | 67.1 |
| 26.5mm | 3457.70 | 6.46 | 26.50 | 60.6 |
| 19.0mm | 3916.50 | 5.23 | 19.00 | 55.4 |
| 16mm | 4119.70 | 2.32 | 16.00 | 53.0 |
| 13.2mm | 4311.20 | 2.18 | 13.20 | 50.9 |
| 9.5mm | 4756.00 | 5.07 | 9.50 | 45.8 |
| 4.75mm | 5486.30 | 8.33 | 4.75 | 37.5 |
| PAN | 3275.00 | 37.46 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 42.10 | 5.76 | 2.36 | 31.7 |
| 1.18mm | 84.60 | 5.81 | 1.18 | 25.9 |
| 600µm | 121.20 | 5.00 | 0.60 | 20.9 |
| 300µm | 153.00 | 4.35 | 0.30 | 16.5 |
| 150µm | 179.90 | 3.68 | 0.15 | 12.9 |
| 75µm | 202.00 | 3.02 | 0.08 | 9.8 |

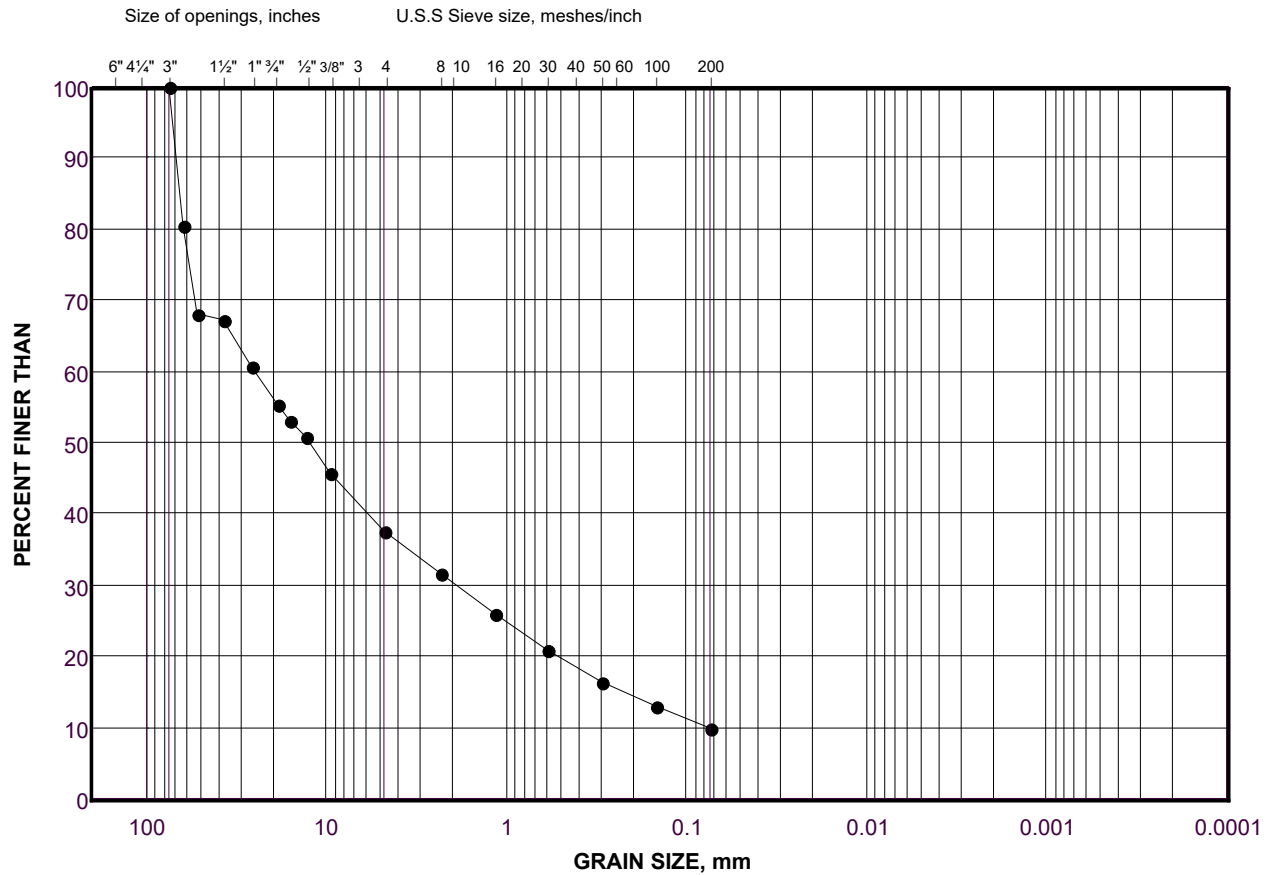
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 27.5 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-04 | Testing Date | 3/08/22 2:20:33 PM |
| Sample Number | 6A | Tested By | Sieve - TP |
| Checked By | _____ | LabID | 22-434 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|--------------|
| ● | MW 21-04 | 6A | 24.0 - 27.50 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 6294.5(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 308.80 | 4.91 | 37.50 | 95.1 |
| 26.5mm | 439.40 | 2.07 | 26.50 | 93.0 |
| 19.0mm | 573.80 | 2.14 | 19.00 | 90.9 |
| 16mm | 612.00 | 0.61 | 16.00 | 90.3 |
| 13.2mm | 695.50 | 1.33 | 13.20 | 88.9 |
| 9.5mm | 880.60 | 2.94 | 9.50 | 86.0 |
| 4.75mm | 1222.40 | 5.43 | 4.75 | 80.6 |
| PAN | 5062.20 | 80.57 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 15.00 | 4.61 | 2.36 | 76.0 |
| 1.18mm | 32.80 | 5.48 | 1.18 | 70.5 |
| 600µm | 49.90 | 5.26 | 0.60 | 65.2 |
| 300µm | 71.30 | 6.58 | 0.30 | 58.6 |
| 150µm | 100.60 | 9.01 | 0.15 | 49.6 |
| 75µm | 128.40 | 8.55 | 0.08 | 41.1 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-04
Sample Number 6B
Checked By _____

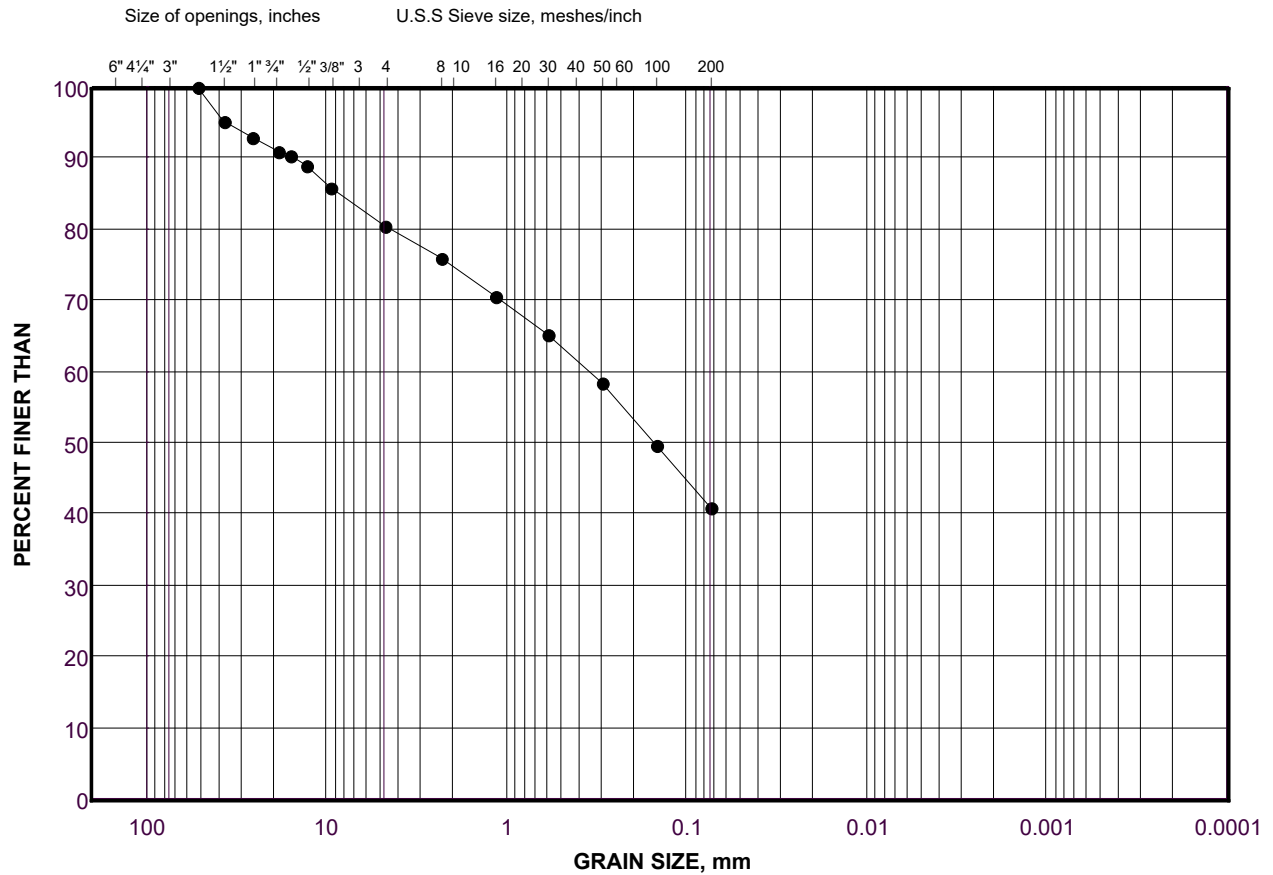
Depth 29
Units Metric
Testing Date 3/08/22 1:38:08 PM
Tested By Sieve - TP
LabID 22-433

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|----------------|-------------|------|-----------|--------|------|---------------------|
| COBBLE SIZE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(m) |
|--------|----------|--------|--------------|
| • | MW 21-04 | 6B | 27.50 - 29.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 15986(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 776.00 | 4.85 | 75.00 | 95.2 |
| 63mm | 1808.00 | 6.46 | 63.00 | 88.7 |
| 53mm | 1808.00 | 0.00 | 53.00 | 88.7 |
| 37.5mm | 2932.00 | 7.03 | 37.50 | 81.7 |
| 26.5mm | 3626.00 | 4.34 | 26.50 | 77.3 |
| 19.0mm | 4242.00 | 3.85 | 19.00 | 73.5 |
| 16mm | 4618.00 | 2.35 | 16.00 | 71.1 |
| 13.2mm | 4952.00 | 2.09 | 13.20 | 69.0 |
| 9.5mm | 5540.00 | 3.68 | 9.50 | 65.4 |
| 4.75mm | 6728.00 | 7.43 | 4.75 | 57.9 |
| PAN | 9186.00 | 57.92 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 25.16 | 4.40 | 2.36 | 53.5 |
| 1.18mm | 57.01 | 5.57 | 1.18 | 48.0 |
| 600µm | 89.99 | 5.77 | 0.60 | 42.2 |
| 300µm | 124.22 | 5.99 | 0.30 | 36.2 |
| 150µm | 159.02 | 6.09 | 0.15 | 30.1 |
| 75µm | 196.02 | 6.47 | 0.08 | 23.6 |

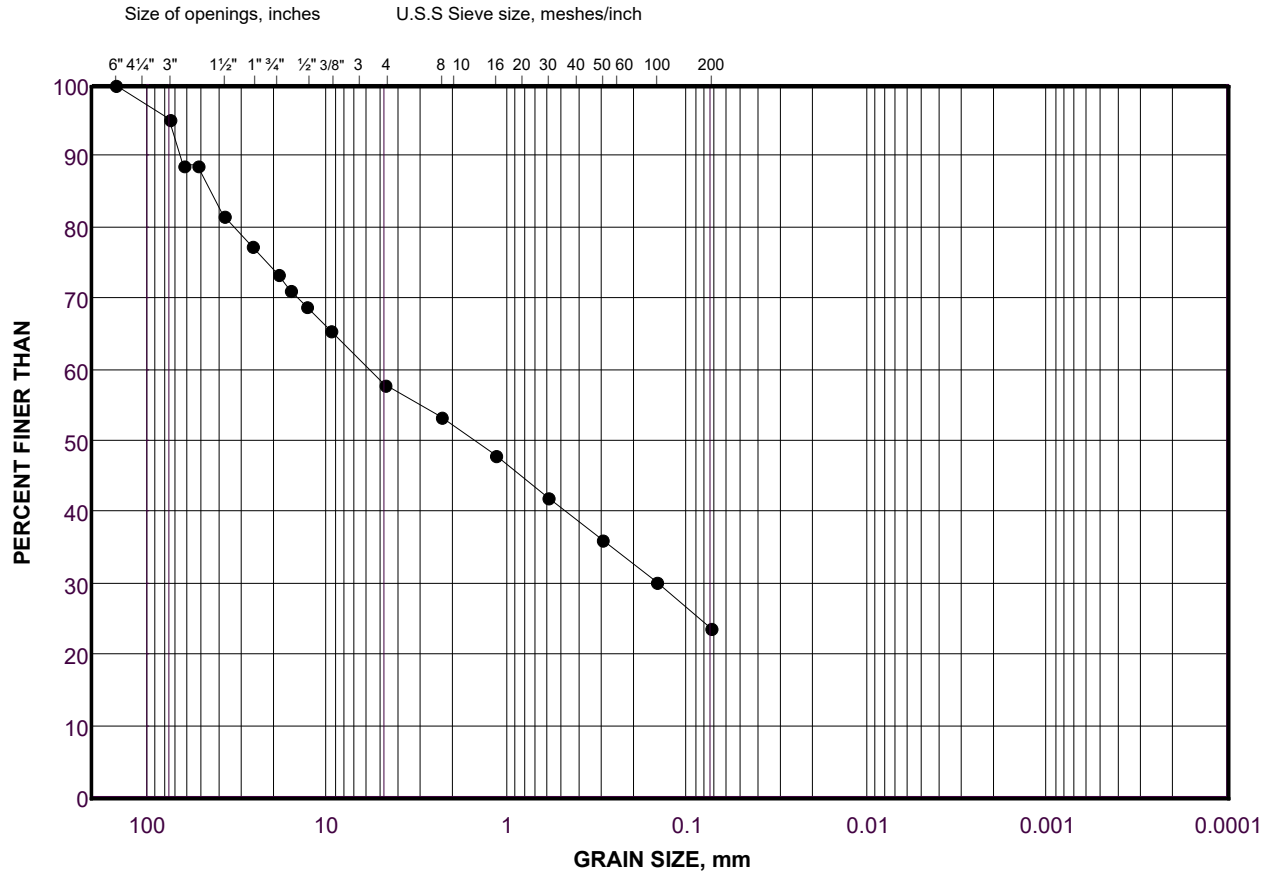
| | | | |
|-----------------|----------|--------------|---------------------|
| Project Number | 21476582 | Depth | 34 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-04 | Testing Date | 3/29/22 10:23:52 AM |
| Sample Number | 7 | Tested By | Sieve - JB |
| Checked By | _____ | LabID | 22-578 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | MW 21-04 | 7 | 29.0 - 34.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 5553(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 585.00 | 10.53 | 75.00 | 89.5 |
| 63mm | 585.00 | 0.00 | 63.00 | 89.5 |
| 53mm | 862.40 | 5.00 | 53.00 | 84.5 |
| 37.5mm | 1042.10 | 3.24 | 37.50 | 81.2 |
| 26.5mm | 1371.60 | 5.93 | 26.50 | 75.3 |
| 19.0mm | 1692.40 | 5.78 | 19.00 | 69.5 |
| 16mm | 1824.50 | 2.38 | 16.00 | 67.1 |
| 13.2mm | 1978.00 | 2.76 | 13.20 | 64.4 |
| 9.5mm | 2302.80 | 5.85 | 9.50 | 58.5 |
| 4.75mm | 2919.70 | 11.11 | 4.75 | 47.4 |
| PAN | 2628.30 | 47.42 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 49.70 | 7.65 | 2.36 | 39.8 |
| 1.18mm | 95.20 | 7.00 | 1.18 | 32.8 |
| 600µm | 131.20 | 5.54 | 0.60 | 27.2 |
| 300µm | 161.90 | 4.73 | 0.30 | 22.5 |
| 150µm | 189.10 | 4.19 | 0.15 | 18.3 |
| 75µm | 212.10 | 3.54 | 0.08 | 14.8 |

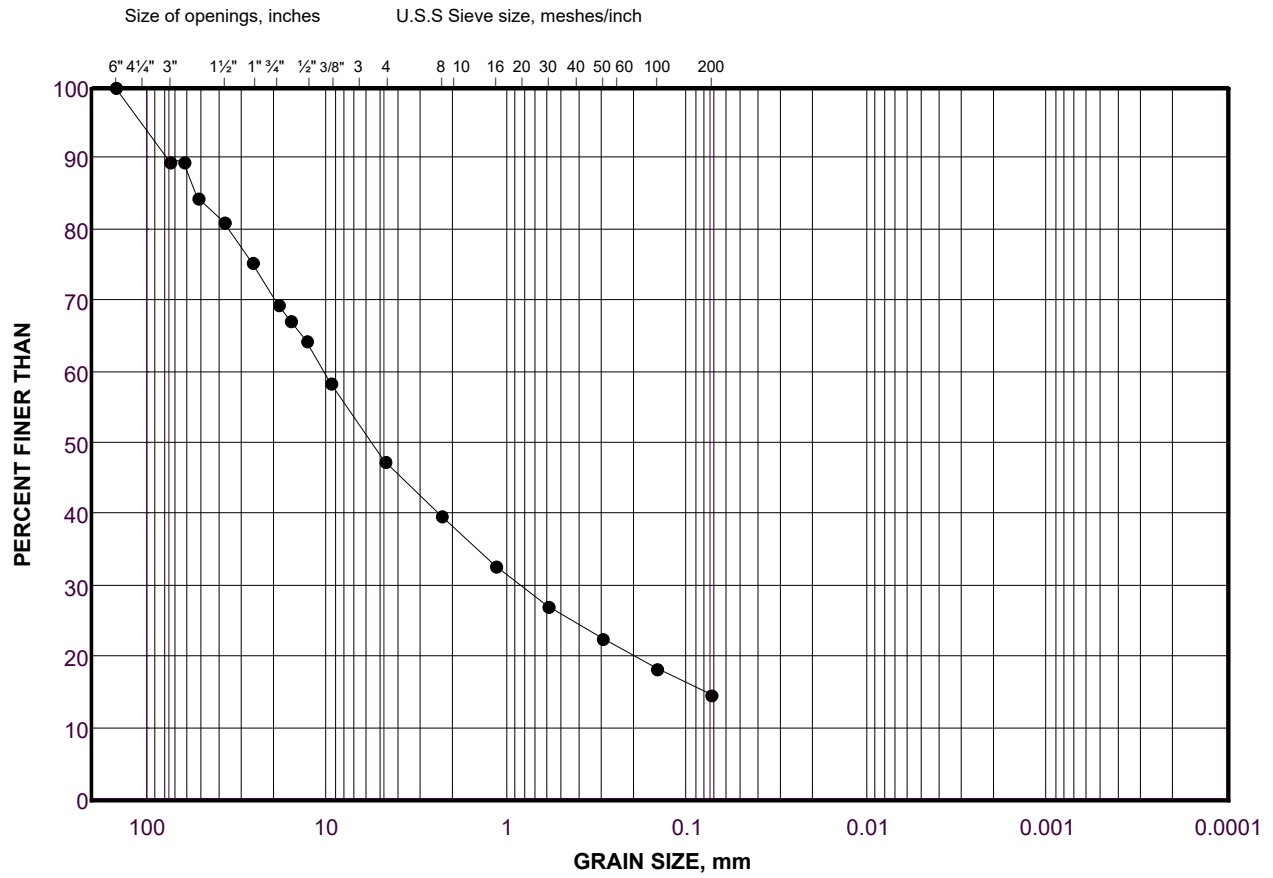
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 38.5 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-04 | Testing Date | 3/08/22 2:31:29 PM |
| Sample Number | 8A | Tested By | Sieve - AM |
| Checked By | _____ | LabID | 22-212 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|--------------|
| ● | MW 21-04 | 8A | 36.0 - 38.50 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 11713.6(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 1381.80 | 11.80 | 63.00 | 88.2 |
| 53mm | 1381.80 | 0.00 | 53.00 | 88.2 |
| 37.5mm | 2169.70 | 6.73 | 37.50 | 81.5 |
| 26.5mm | 2698.70 | 4.52 | 26.50 | 77.0 |
| 19.0mm | 3191.80 | 4.21 | 19.00 | 72.7 |
| 16mm | 3423.80 | 1.98 | 16.00 | 70.8 |
| 13.2mm | 3587.80 | 1.40 | 13.20 | 69.4 |
| 9.5mm | 4042.00 | 3.88 | 9.50 | 65.5 |
| 4.75mm | 4747.40 | 6.02 | 4.75 | 59.5 |
| PAN | 6950.00 | 59.46 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 26.10 | 5.62 | 2.36 | 53.8 |
| 1.18mm | 46.50 | 4.39 | 1.18 | 49.5 |
| 600µm | 63.10 | 3.57 | 0.60 | 45.9 |
| 300µm | 79.10 | 3.44 | 0.30 | 42.4 |
| 150µm | 96.30 | 3.70 | 0.15 | 38.7 |
| 75µm | 114.20 | 3.85 | 0.08 | 34.9 |

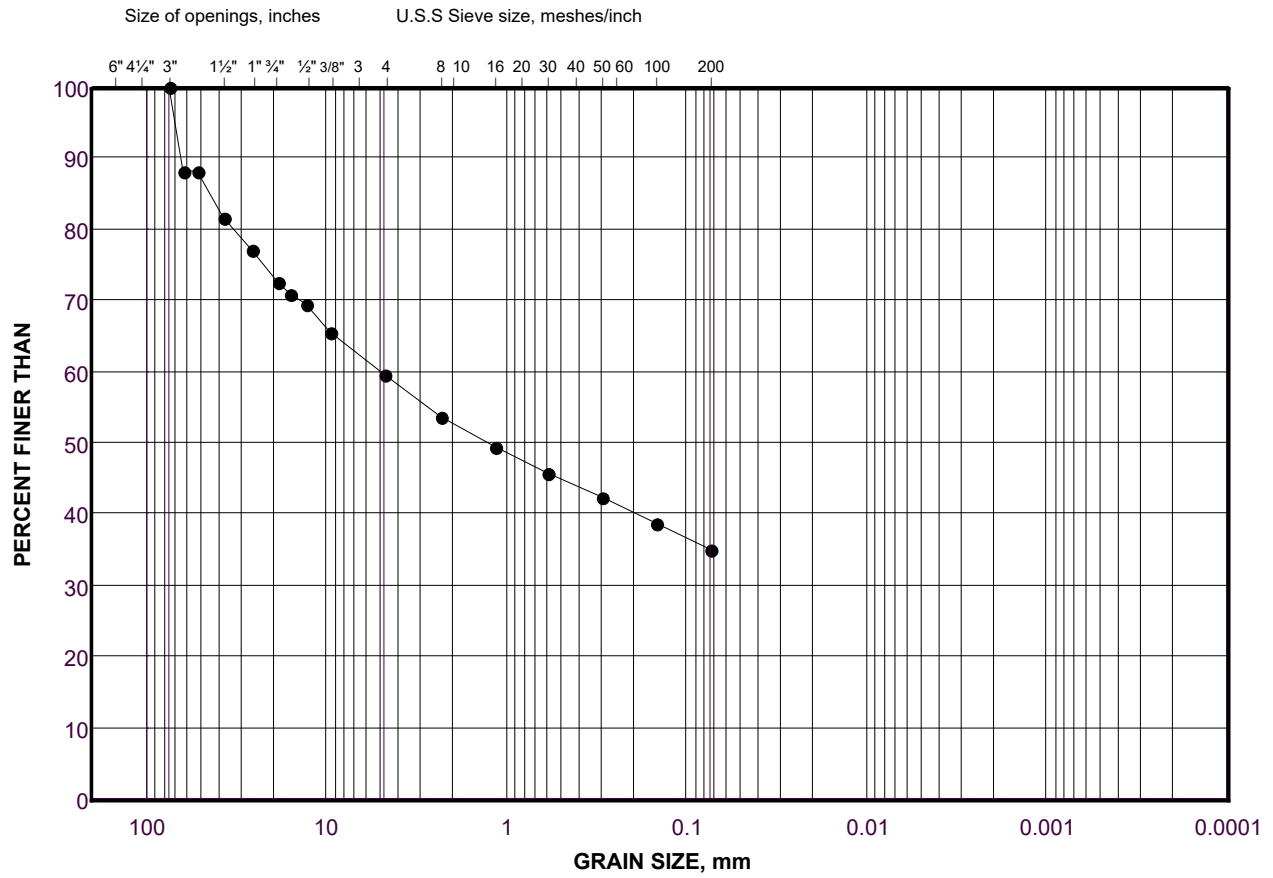
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 39 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-04 | Testing Date | 3/08/22 2:23:59 PM |
| Sample Number | 8B | Tested By | Sieve - JT |
| Checked By | _____ | LabID | 22-221 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-04 | 8B | 34.0 - 36.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 14306(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 550.00 | 3.84 | 53.00 | 96.2 |
| 37.5mm | 1046.00 | 3.47 | 37.50 | 92.7 |
| 26.5mm | 1778.00 | 5.12 | 26.50 | 87.6 |
| 19.0mm | 2522.00 | 5.20 | 19.00 | 82.4 |
| 16mm | 2956.00 | 3.03 | 16.00 | 79.3 |
| 13.2mm | 3424.00 | 3.27 | 13.20 | 76.1 |
| 9.5mm | 4312.00 | 6.21 | 9.50 | 69.9 |
| 4.75mm | 6016.00 | 11.91 | 4.75 | 58.0 |
| PAN | 8264.00 | 57.95 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 55.90 | 9.42 | 2.36 | 48.5 |
| 1.18mm | 105.31 | 8.33 | 1.18 | 40.2 |
| 600µm | 156.02 | 8.55 | 0.60 | 31.6 |
| 300µm | 208.56 | 8.86 | 0.30 | 22.8 |
| 150µm | 252.68 | 7.44 | 0.15 | 15.3 |
| 75µm | 280.20 | 4.64 | 0.08 | 10.7 |

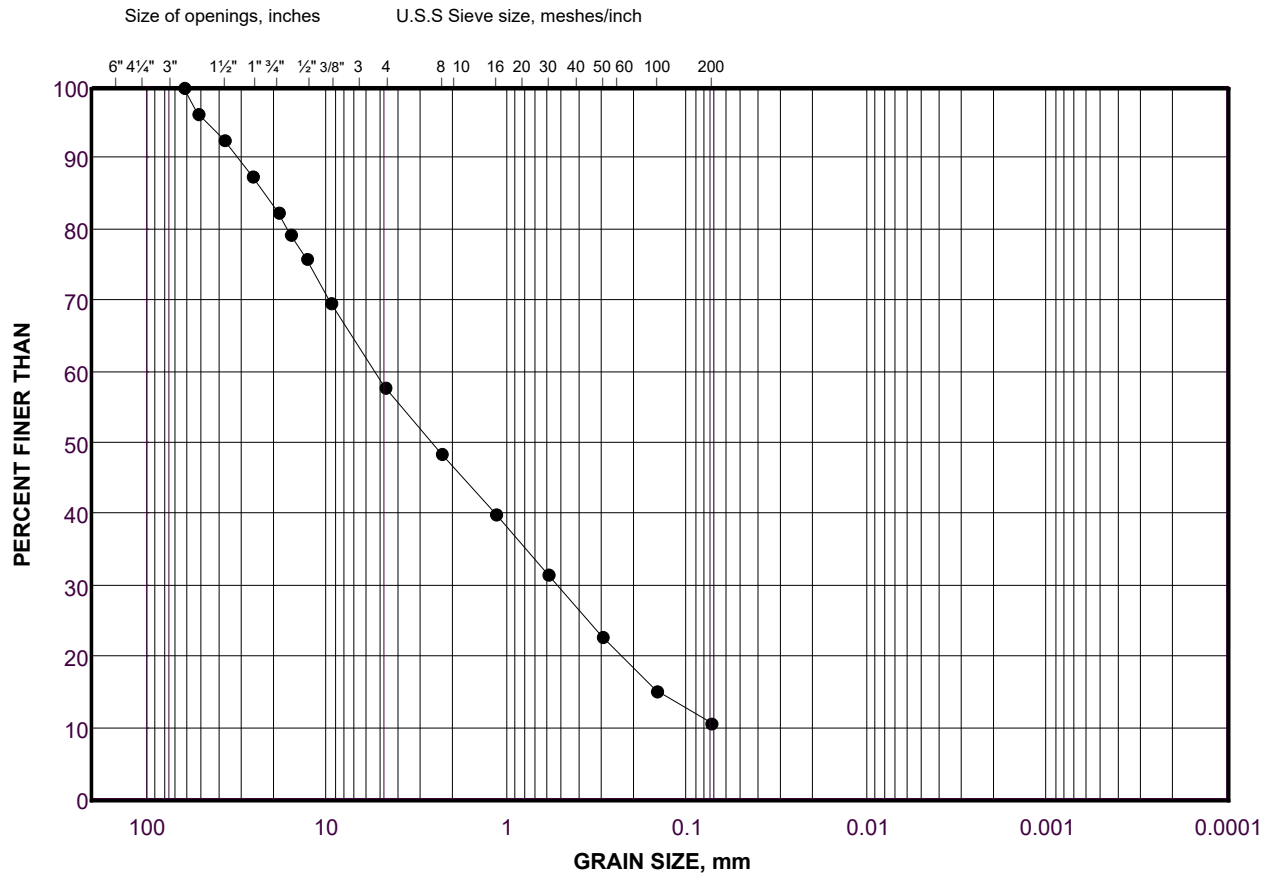
| | | | |
|-----------------|----------|--------------|---------------------|
| Project Number | 21476582 | Depth | 44 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-04 | Testing Date | 3/29/22 10:27:23 AM |
| Sample Number | 9 | Tested By | Sieve - JB |
| Checked By | _____ | LabID | 22-579 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | MW 21-04 | 9 | 34.0 - 44.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 12902(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 718.00 | 5.57 | 53.00 | 94.4 |
| 37.5mm | 1308.00 | 4.57 | 37.50 | 89.9 |
| 26.5mm | 2124.00 | 6.32 | 26.50 | 83.5 |
| 19.0mm | 2996.00 | 6.76 | 19.00 | 76.8 |
| 16mm | 3380.00 | 2.98 | 16.00 | 73.8 |
| 13.2mm | 3830.00 | 3.49 | 13.20 | 70.3 |
| 9.5mm | 4792.00 | 7.46 | 9.50 | 62.9 |
| 4.75mm | 6306.00 | 11.73 | 4.75 | 51.1 |
| PAN | 6576.00 | 51.12 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 52.04 | 7.50 | 2.36 | 43.6 |
| 1.18mm | 102.98 | 7.34 | 1.18 | 36.3 |
| 600µm | 149.37 | 6.68 | 0.60 | 29.6 |
| 300µm | 194.21 | 6.46 | 0.30 | 23.1 |
| 150µm | 235.58 | 5.96 | 0.15 | 17.2 |
| 75µm | 265.74 | 4.35 | 0.08 | 12.8 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-04
Sample Number 10
Checked By _____

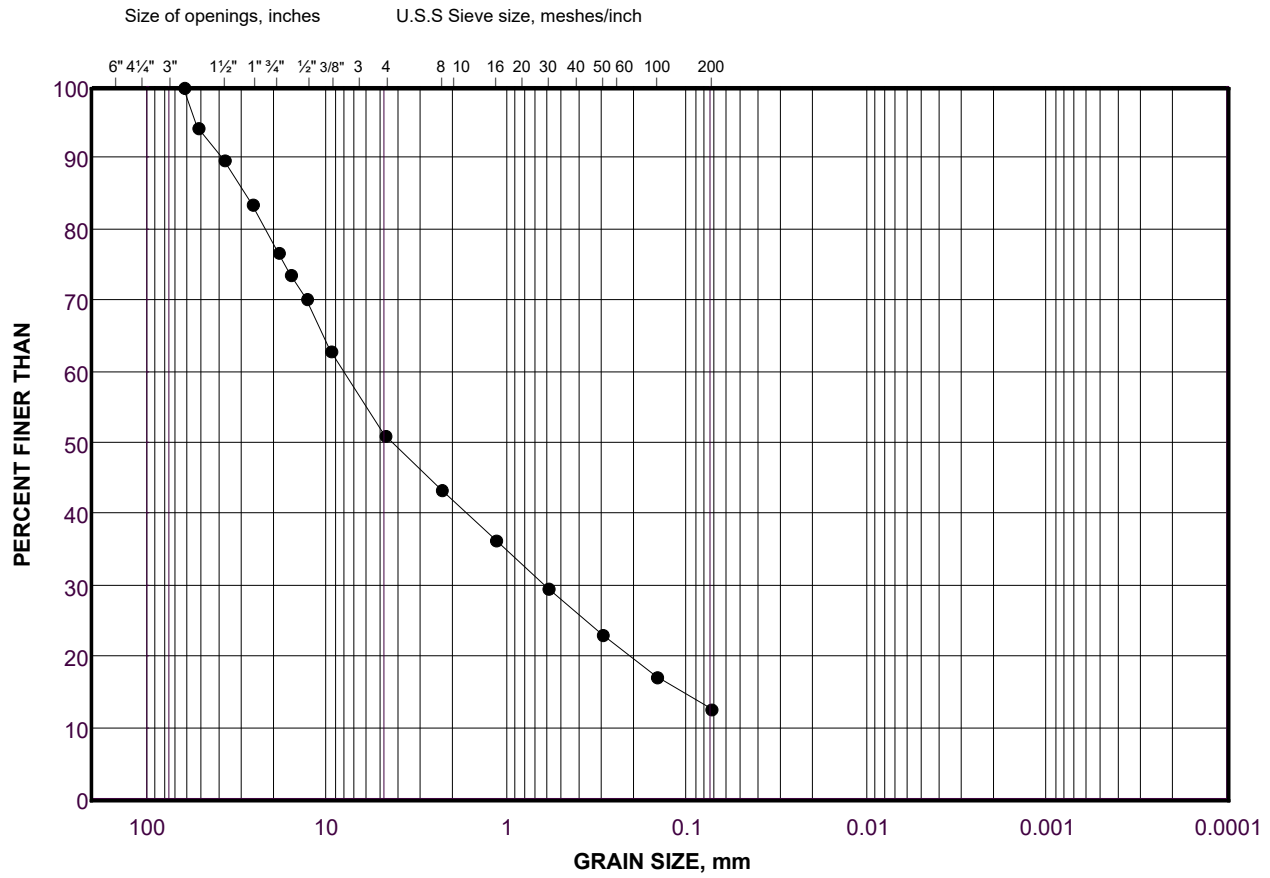
Depth 49
Units Imperial
Testing Date 3/29/22 10:29:39 AM
Tested By Sieve - JB
LabID 22-580

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-04 | 10 | 44.0 - 49.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 14219.1(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 761.60 | 5.36 | 75.00 | 94.6 |
| 63mm | 761.60 | 0.00 | 63.00 | 94.6 |
| 53mm | 1239.80 | 3.36 | 53.00 | 91.3 |
| 37.5mm | 2171.20 | 6.55 | 37.50 | 84.7 |
| 26.5mm | 2775.30 | 4.25 | 26.50 | 80.5 |
| 19.0mm | 3901.30 | 7.92 | 19.00 | 72.6 |
| 16mm | 4409.00 | 3.57 | 16.00 | 69.0 |
| 13.2mm | 4914.70 | 3.56 | 13.20 | 65.4 |
| 9.5mm | 5786.40 | 6.13 | 9.50 | 59.3 |
| 4.75mm | 7248.50 | 10.28 | 4.75 | 49.0 |
| PAN | 6935.30 | 49.02 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 42.10 | 7.86 | 2.36 | 41.2 |
| 1.18mm | 79.50 | 6.98 | 1.18 | 34.2 |
| 600µm | 113.10 | 6.27 | 0.60 | 27.9 |
| 300µm | 145.70 | 6.08 | 0.30 | 21.8 |
| 150µm | 173.00 | 5.09 | 0.15 | 16.7 |
| 75µm | 192.80 | 3.69 | 0.08 | 13.1 |

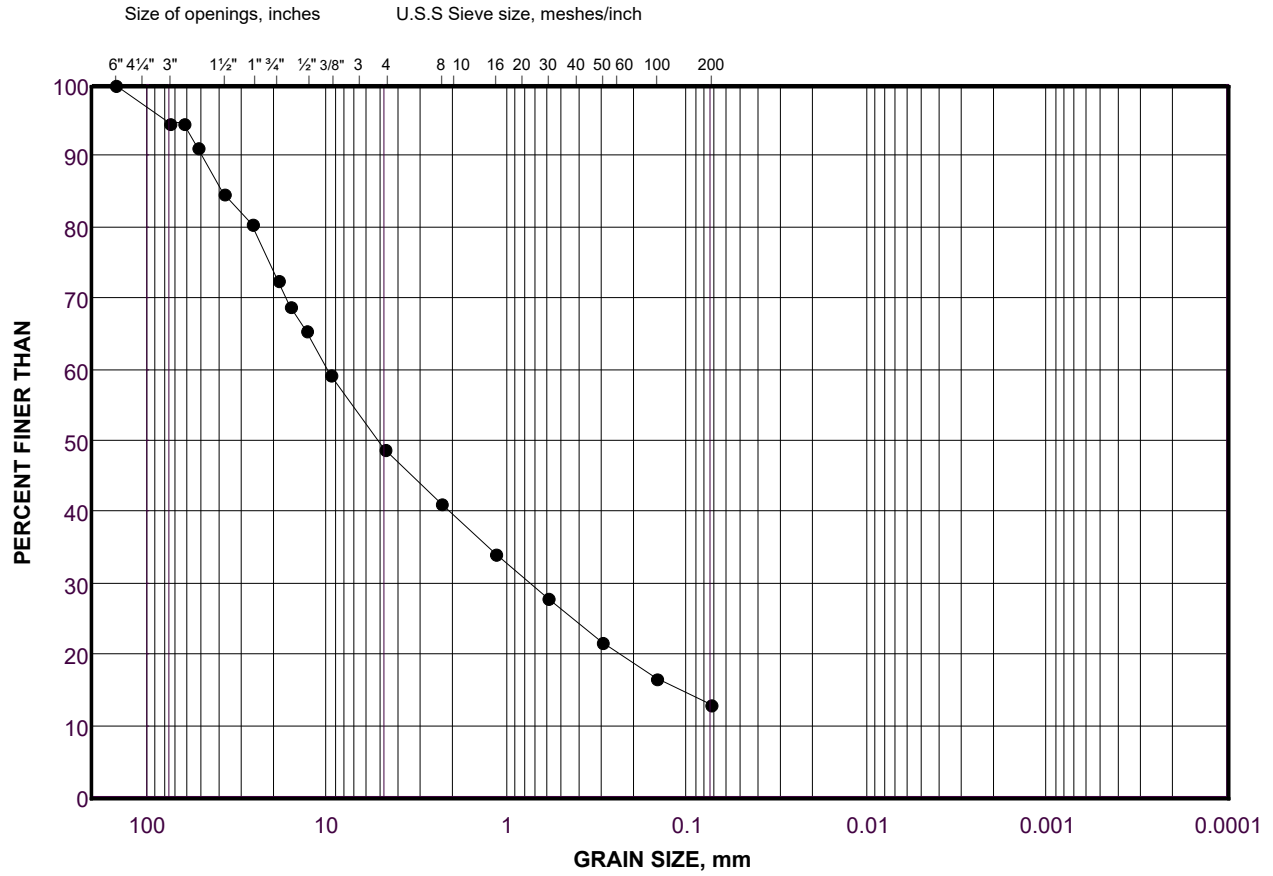
| | | | |
|-----------------|----------|--------------|--------------------|
| Project Number | 21476582 | Depth | 54 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-04 | Testing Date | 3/08/22 2:34:37 PM |
| Sample Number | 11A | Tested By | Sieve - AM |
| Checked By | _____ | LabID | 22-207 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-04 | 11A | 49.0 - 54.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 2405.1(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 26.5mm | 0.00 | 0.00 | 26.50 | 100.0 |
| 19.0mm | 0.00 | 0.00 | 19.00 | 100.0 |
| 16mm | 39.50 | 1.64 | 16.00 | 98.4 |
| 13.2mm | 41.90 | 0.10 | 13.20 | 98.3 |
| 9.5mm | 64.90 | 0.96 | 9.50 | 97.3 |
| 4.75mm | 141.70 | 3.19 | 4.75 | 94.1 |
| PAN | 2263.40 | 94.11 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 13.70 | 4.81 | 2.36 | 89.3 |
| 1.18mm | 34.20 | 7.19 | 1.18 | 82.1 |
| 600µm | 58.20 | 8.42 | 0.60 | 73.7 |
| 300µm | 82.50 | 8.52 | 0.30 | 65.2 |
| 150µm | 108.20 | 9.01 | 0.15 | 56.2 |
| 75µm | 139.20 | 10.87 | 0.08 | 45.3 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-04
Sample Number 11B
Checked By _____

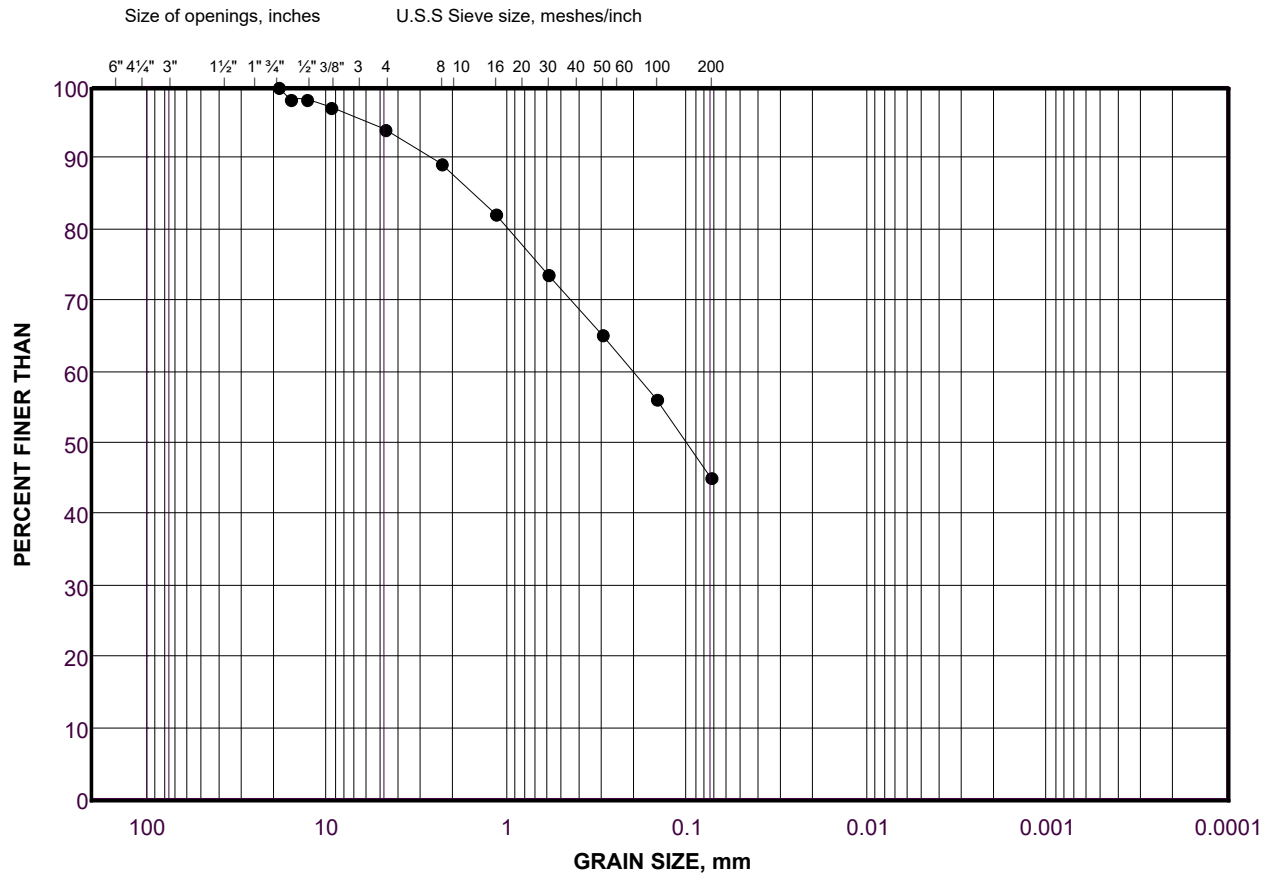
Depth 52
Units Metric
Testing Date 3/08/22 3:01:38 PM
Tested By Sieve - AM
LabID 22-193

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|--------|-------------|------|-----------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(m) |
|--------|----------|--------|--------------|
| • | MW 21-04 | 11B | 51.50 - 52.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 14724.3(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 572.40 | 3.89 | 53.00 | 96.1 |
| 37.5mm | 1375.40 | 5.45 | 37.50 | 90.7 |
| 26.5mm | 2556.00 | 8.02 | 26.50 | 82.6 |
| 19.0mm | 4004.70 | 9.84 | 19.00 | 72.8 |
| 16mm | 4390.50 | 2.62 | 16.00 | 70.2 |
| 13.2mm | 4902.60 | 3.48 | 13.20 | 66.7 |
| 9.5mm | 6079.40 | 7.99 | 9.50 | 58.7 |
| 4.75mm | 7825.10 | 11.86 | 4.75 | 46.8 |
| PAN | 6899.20 | 46.85 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 50.00 | 8.66 | 2.36 | 38.2 |
| 1.18mm | 94.20 | 7.65 | 1.18 | 30.5 |
| 600µm | 134.40 | 6.96 | 0.60 | 23.6 |
| 300µm | 166.30 | 5.52 | 0.30 | 18.1 |
| 150µm | 189.40 | 4.00 | 0.15 | 14.1 |
| 75µm | 205.80 | 2.84 | 0.08 | 11.2 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-04
Sample Number 12
Checked By _____

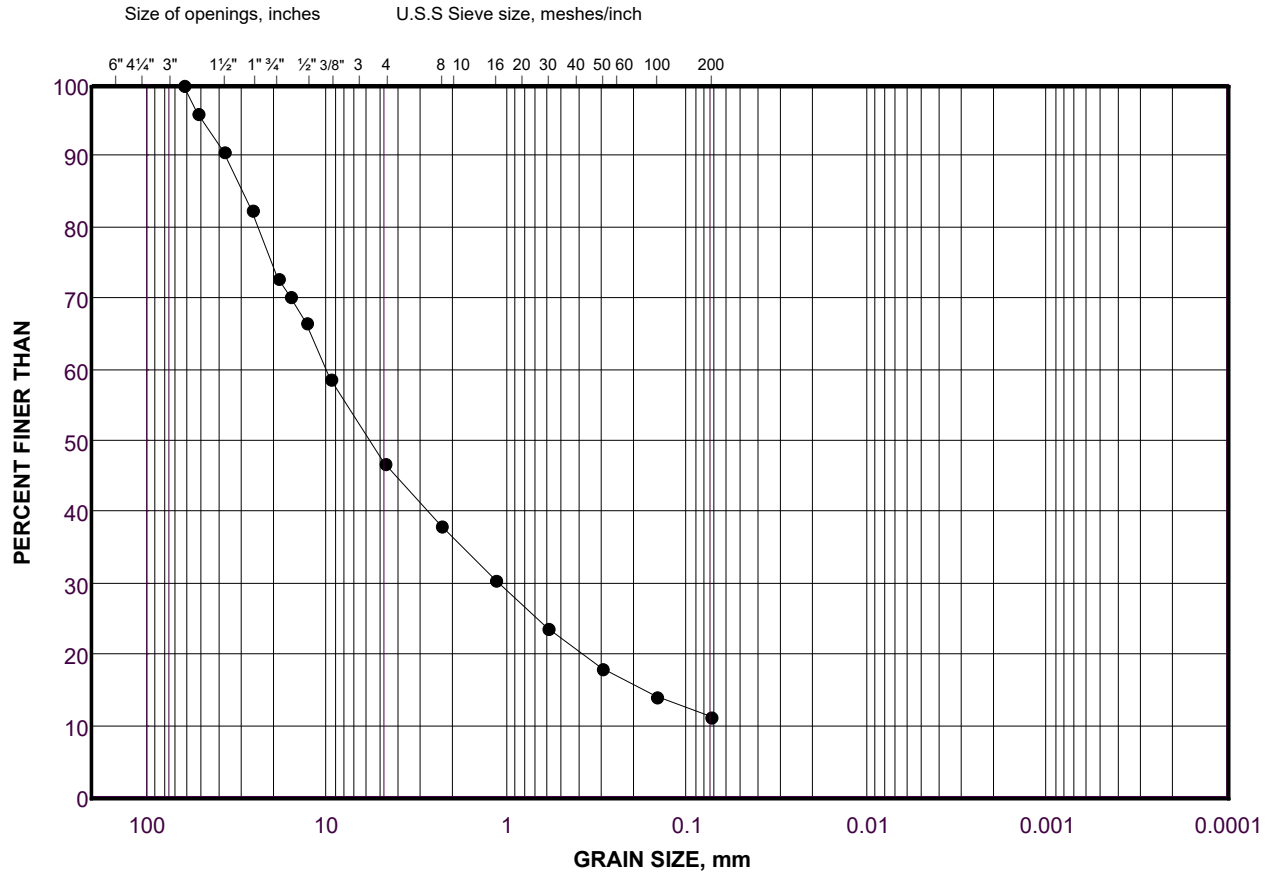
Depth 59
Units Imperial
Testing Date 3/29/22 10:35:31 AM
Tested By Sieve - TP
LabID 22-565

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | MW 21-04 | 12 | 54.0 - 59.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 16182.4(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 709.20 | 4.38 | 75.00 | 95.6 |
| 63mm | 1725.90 | 6.28 | 63.00 | 89.3 |
| 53mm | 2373.10 | 4.00 | 53.00 | 85.3 |
| 37.5mm | 3103.20 | 4.51 | 37.50 | 80.8 |
| 26.5mm | 4445.30 | 8.29 | 26.50 | 72.5 |
| 19.0mm | 5560.50 | 6.89 | 19.00 | 65.6 |
| 16mm | 6218.30 | 4.06 | 16.00 | 61.6 |
| 13.2mm | 6693.20 | 2.93 | 13.20 | 58.7 |
| 9.5mm | 7521.10 | 5.12 | 9.50 | 53.5 |
| 4.75mm | 9109.90 | 9.82 | 4.75 | 43.7 |
| PAN | 7049.70 | 43.72 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 47.50 | 7.83 | 2.36 | 35.9 |
| 1.18mm | 91.80 | 7.30 | 1.18 | 28.6 |
| 600µm | 126.00 | 5.64 | 0.60 | 23.0 |
| 300µm | 154.80 | 4.75 | 0.30 | 18.2 |
| 150µm | 178.50 | 3.91 | 0.15 | 14.3 |
| 75µm | 198.50 | 3.30 | 0.08 | 11.0 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-04
Sample Number 13
Checked By _____

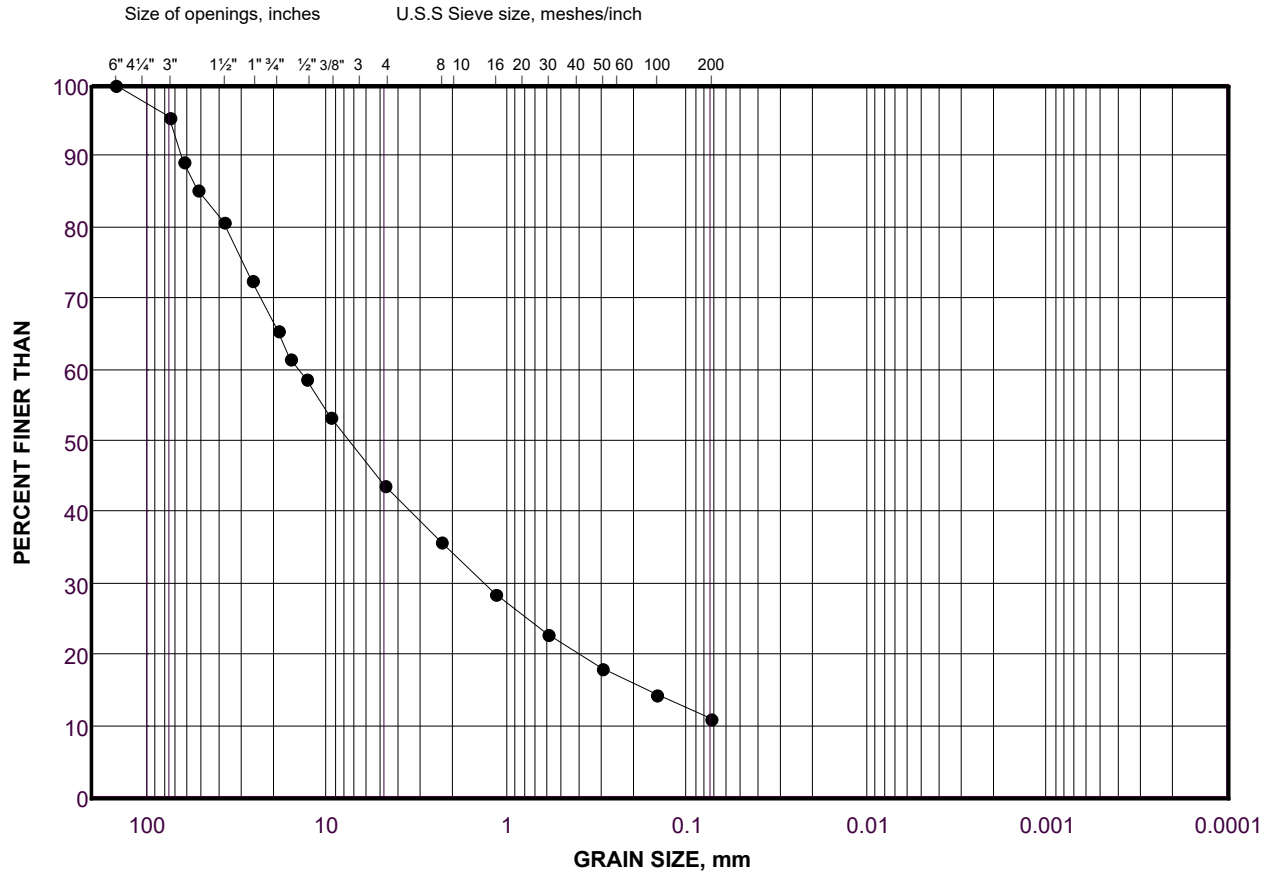
Depth 64
Units Imperial
Testing Date 3/08/22 3:05:20 PM
Tested By Sieve - AM
LabID 22-435

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-04 | 13 | 59.0 - 64.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 17383.2(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 499.50 | 2.87 | 63.00 | 97.1 |
| 53mm | 1144.10 | 3.71 | 53.00 | 93.4 |
| 37.5mm | 1968.40 | 4.74 | 37.50 | 88.7 |
| 26.5mm | 3364.90 | 8.03 | 26.50 | 80.7 |
| 19.0mm | 4930.90 | 9.01 | 19.00 | 71.6 |
| 16mm | 5562.40 | 3.63 | 16.00 | 68.0 |
| 13.2mm | 6035.30 | 2.72 | 13.20 | 65.3 |
| 9.5mm | 7182.30 | 6.60 | 9.50 | 58.7 |
| 4.75mm | 8976.60 | 10.32 | 4.75 | 48.4 |
| PAN | 8387.50 | 48.37 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 58.30 | 9.58 | 2.36 | 38.8 |
| 1.18mm | 109.80 | 8.46 | 1.18 | 30.3 |
| 600µm | 149.50 | 6.52 | 0.60 | 23.8 |
| 300µm | 175.20 | 4.22 | 0.30 | 19.6 |
| 150µm | 194.90 | 3.24 | 0.15 | 16.4 |
| 75µm | 216.80 | 3.60 | 0.08 | 12.8 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-04
Sample Number 14
Checked By _____

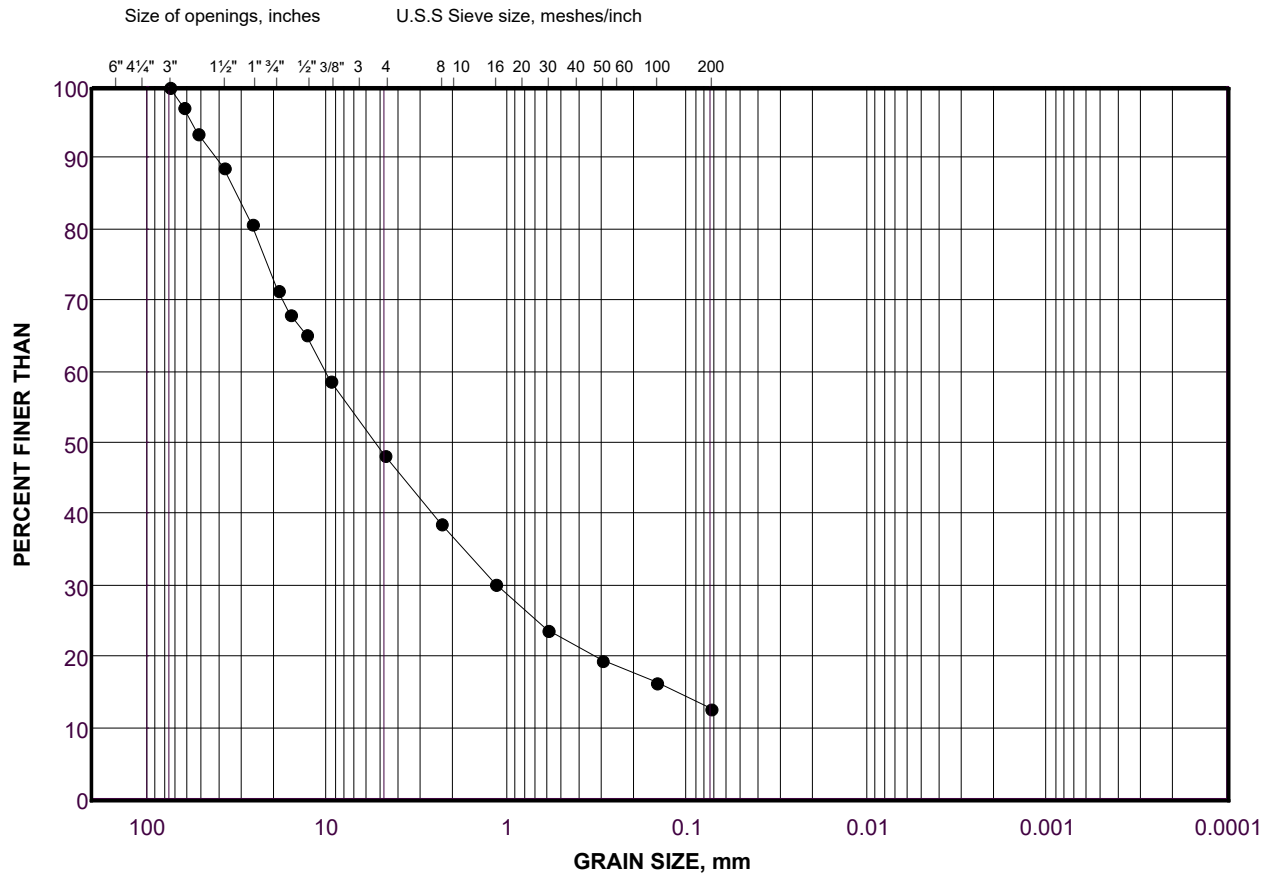
Depth 69
Units Imperial
Testing Date 3/07/22 4:50:25 PM
Tested By Sieve - LB
LabID 22-436

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-04 | 14 | 64.0 - 69.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 18962.5(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 400.30 | 2.11 | 63.00 | 97.9 |
| 53mm | 1138.70 | 3.89 | 53.00 | 94.0 |
| 37.5mm | 2581.30 | 7.61 | 37.50 | 86.4 |
| 26.5mm | 4163.40 | 8.34 | 26.50 | 78.1 |
| 19.0mm | 5573.40 | 7.44 | 19.00 | 70.6 |
| 16mm | 6060.70 | 2.57 | 16.00 | 68.0 |
| 13.2mm | 6712.60 | 3.44 | 13.20 | 64.6 |
| 9.5mm | 8033.00 | 6.96 | 9.50 | 57.6 |
| 4.75mm | 10301.90 | 11.97 | 4.75 | 45.7 |
| PAN | 8651.00 | 45.67 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 55.60 | 9.01 | 2.36 | 36.7 |
| 1.18mm | 110.30 | 8.87 | 1.18 | 27.8 |
| 600µm | 165.70 | 8.98 | 0.60 | 18.8 |
| 300µm | 215.40 | 8.06 | 0.30 | 10.8 |
| 150µm | 236.90 | 3.49 | 0.15 | 7.3 |
| 75µm | 249.40 | 2.03 | 0.08 | 5.2 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-04
Sample Number 15
Checked By _____

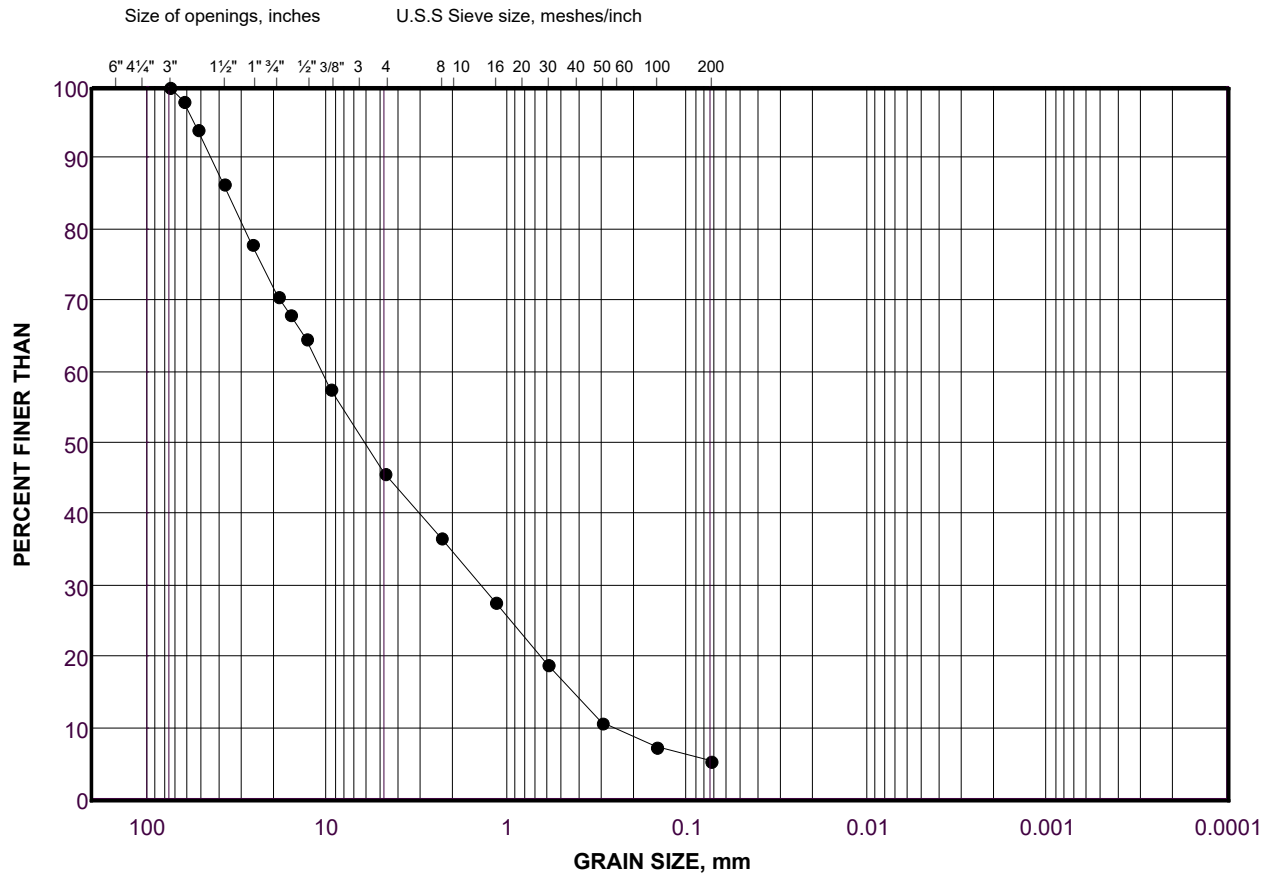
Depth 74
Units Imperial
Testing Date 3/29/22 10:37:19 AM
Tested By Sieve - IC
LabID 22-566

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | MW 21-04 | 15 | 69.0 - 74.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 17517.1(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1697.00 | 9.69 | 75.00 | 90.3 |
| 63mm | 2864.30 | 6.66 | 63.00 | 83.7 |
| 53mm | 3930.00 | 6.08 | 53.00 | 77.6 |
| 37.5mm | 5484.10 | 8.87 | 37.50 | 68.7 |
| 26.5mm | 6974.90 | 8.51 | 26.50 | 60.2 |
| 19.0mm | 7773.40 | 4.56 | 19.00 | 55.6 |
| 16mm | 8375.40 | 3.44 | 16.00 | 52.2 |
| 13.2mm | 8831.70 | 2.60 | 13.20 | 49.6 |
| 9.5mm | 9946.60 | 6.36 | 9.50 | 43.2 |
| 4.75mm | 11433.10 | 8.49 | 4.75 | 34.7 |
| PAN | 6063.10 | 34.74 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 44.10 | 6.01 | 2.36 | 28.7 |
| 1.18mm | 92.50 | 6.60 | 1.18 | 22.1 |
| 600µm | 138.50 | 6.27 | 0.60 | 15.9 |
| 300µm | 169.36 | 4.21 | 0.30 | 11.7 |
| 150µm | 188.80 | 2.65 | 0.15 | 9.0 |
| 75µm | 205.60 | 2.29 | 0.08 | 6.7 |

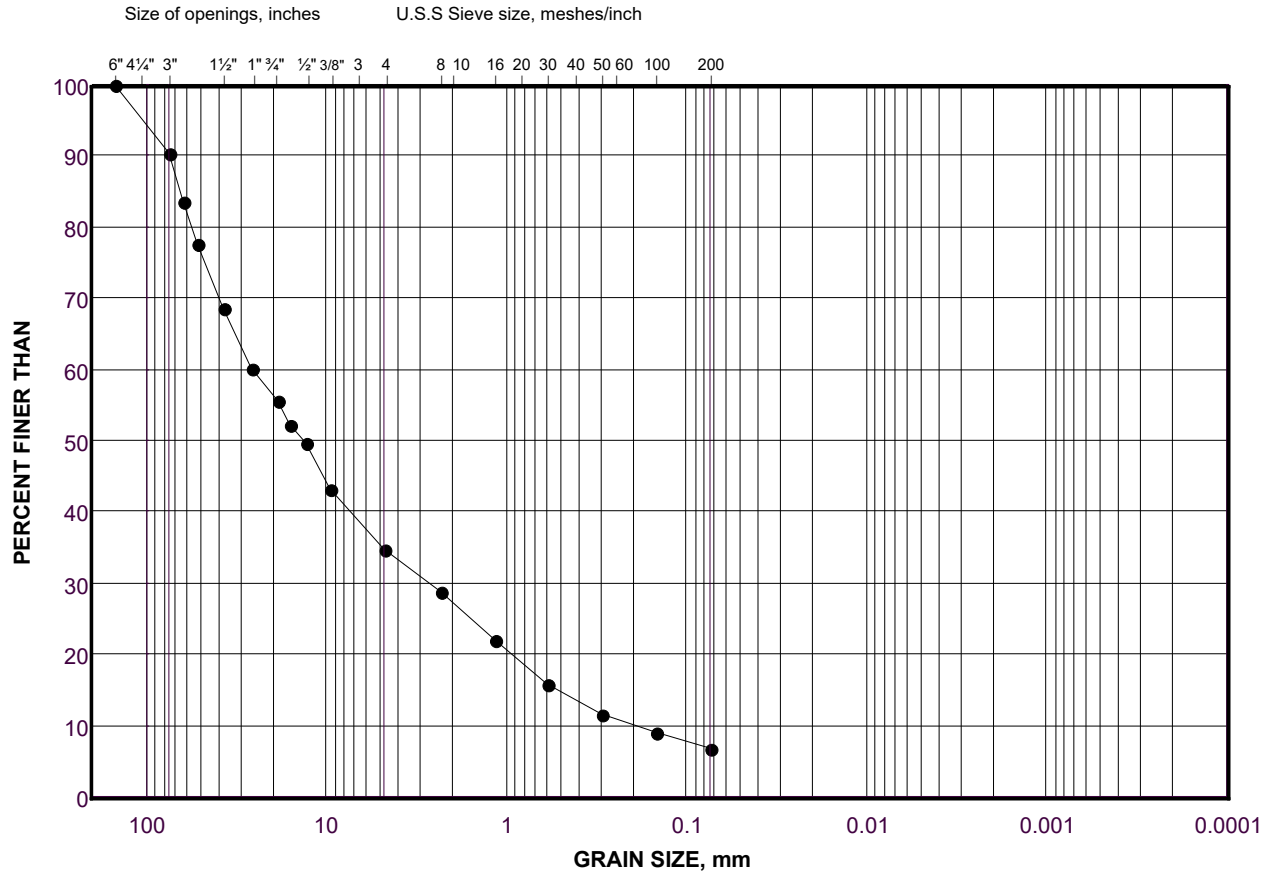
| | | | |
|-----------------|----------|--------------|---------------------|
| Project Number | 21476582 | Depth | 79 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-04 | Testing Date | 3/08/22 11:42:05 AM |
| Sample Number | 16 | Tested By | Sieve - |
| Checked By | _____ | LabID | 22-210 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-04 | 16 | 74.0 - 79.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 19989.1(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 1702.10 | 8.52 | 75.00 | 91.5 |
| 63mm | 2153.80 | 2.26 | 63.00 | 89.2 |
| 53mm | 2153.80 | 0.00 | 53.00 | 89.2 |
| 37.5mm | 4408.90 | 11.28 | 37.50 | 77.9 |
| 26.5mm | 6153.20 | 8.73 | 26.50 | 69.2 |
| 19.0mm | 7899.60 | 8.74 | 19.00 | 60.5 |
| 16mm | 8816.20 | 4.59 | 16.00 | 55.9 |
| 13.2mm | 9180.80 | 1.82 | 13.20 | 54.1 |
| 9.5mm | 10548.30 | 6.84 | 9.50 | 47.2 |
| 4.75mm | 12695.60 | 10.74 | 4.75 | 36.5 |
| PAN | 7204.70 | 36.48 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 64.30 | 9.08 | 2.36 | 27.4 |
| 1.18mm | 126.30 | 8.76 | 1.18 | 18.6 |
| 600µm | 166.40 | 5.67 | 0.60 | 13.0 |
| 300µm | 190.40 | 3.39 | 0.30 | 9.6 |
| 150µm | 204.60 | 2.01 | 0.15 | 7.6 |
| 75µm | 215.70 | 1.57 | 0.08 | 6.0 |

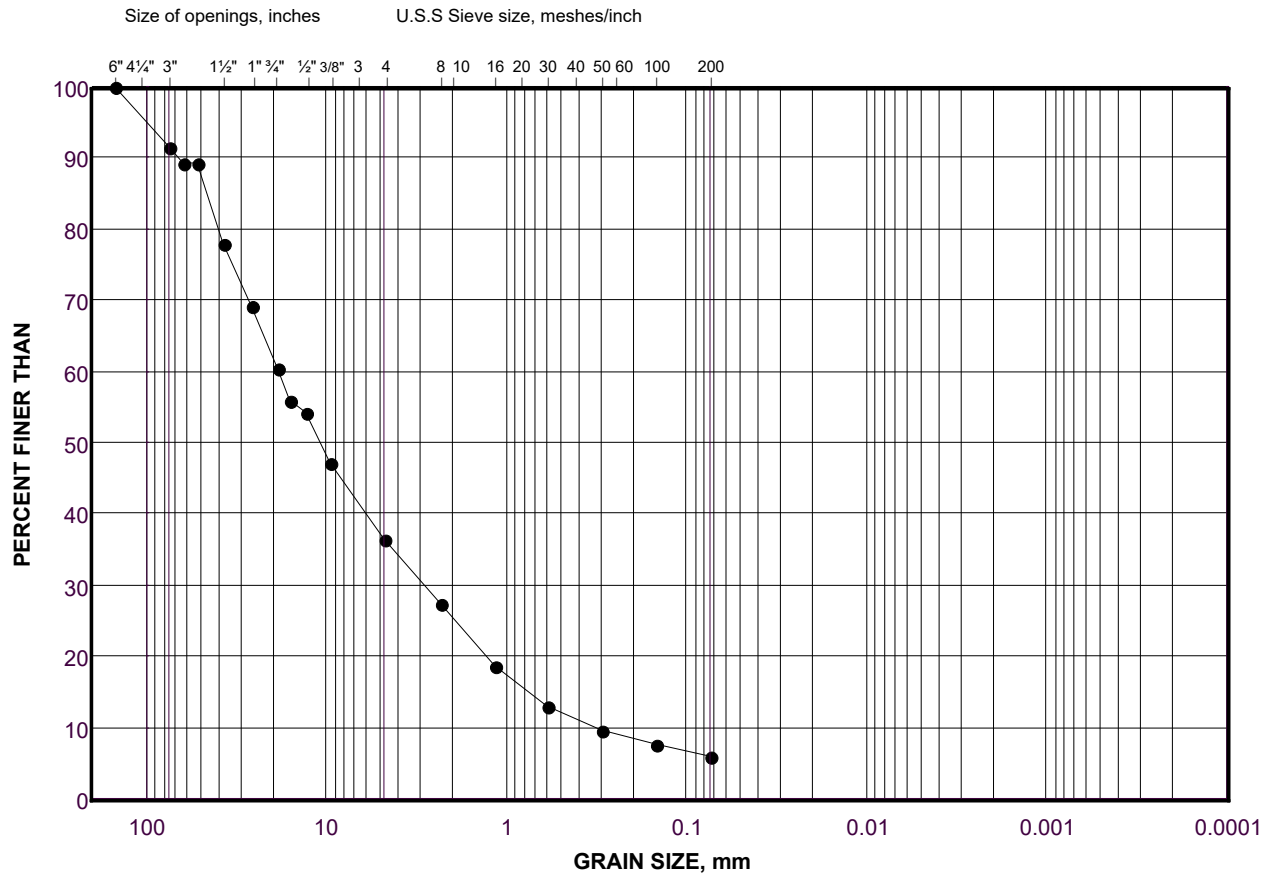
| | | | |
|-----------------|----------|--------------|---------------------|
| Project Number | 21476582 | Depth | 84 |
| Project Task | 1000 | Units | Imperial |
| Borehole Number | MW 21-04 | Testing Date | 3/29/22 10:40:31 AM |
| Sample Number | 17 | Tested By | Sieve - AM |
| Checked By | _____ | LabID | 22-570 |

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | MW 21-04 | 17 | 79.0 - 84.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 17120.9(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 150mm | 0.00 | 0.00 | 150.00 | 100.0 |
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 522.70 | 3.05 | 53.00 | 97.0 |
| 37.5mm | 2593.90 | 12.10 | 37.50 | 84.9 |
| 26.5mm | 3692.50 | 6.42 | 26.50 | 78.4 |
| 19.0mm | 4854.00 | 6.78 | 19.00 | 71.7 |
| 16mm | 5198.40 | 2.01 | 16.00 | 69.6 |
| 13.2mm | 5673.90 | 2.78 | 13.20 | 66.9 |
| 9.5mm | 6643.40 | 5.66 | 9.50 | 61.2 |
| 4.75mm | 8370.10 | 10.09 | 4.75 | 51.1 |
| PAN | 8750.80 | 51.11 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 51.80 | 9.62 | 2.36 | 41.5 |
| 1.18mm | 127.00 | 13.96 | 1.18 | 27.5 |
| 600µm | 185.90 | 10.93 | 0.60 | 16.6 |
| 300µm | 212.80 | 4.99 | 0.30 | 11.6 |
| 150µm | 225.00 | 2.26 | 0.15 | 9.3 |
| 75µm | 234.10 | 1.69 | 0.08 | 7.7 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-04
Sample Number 18
Checked By _____

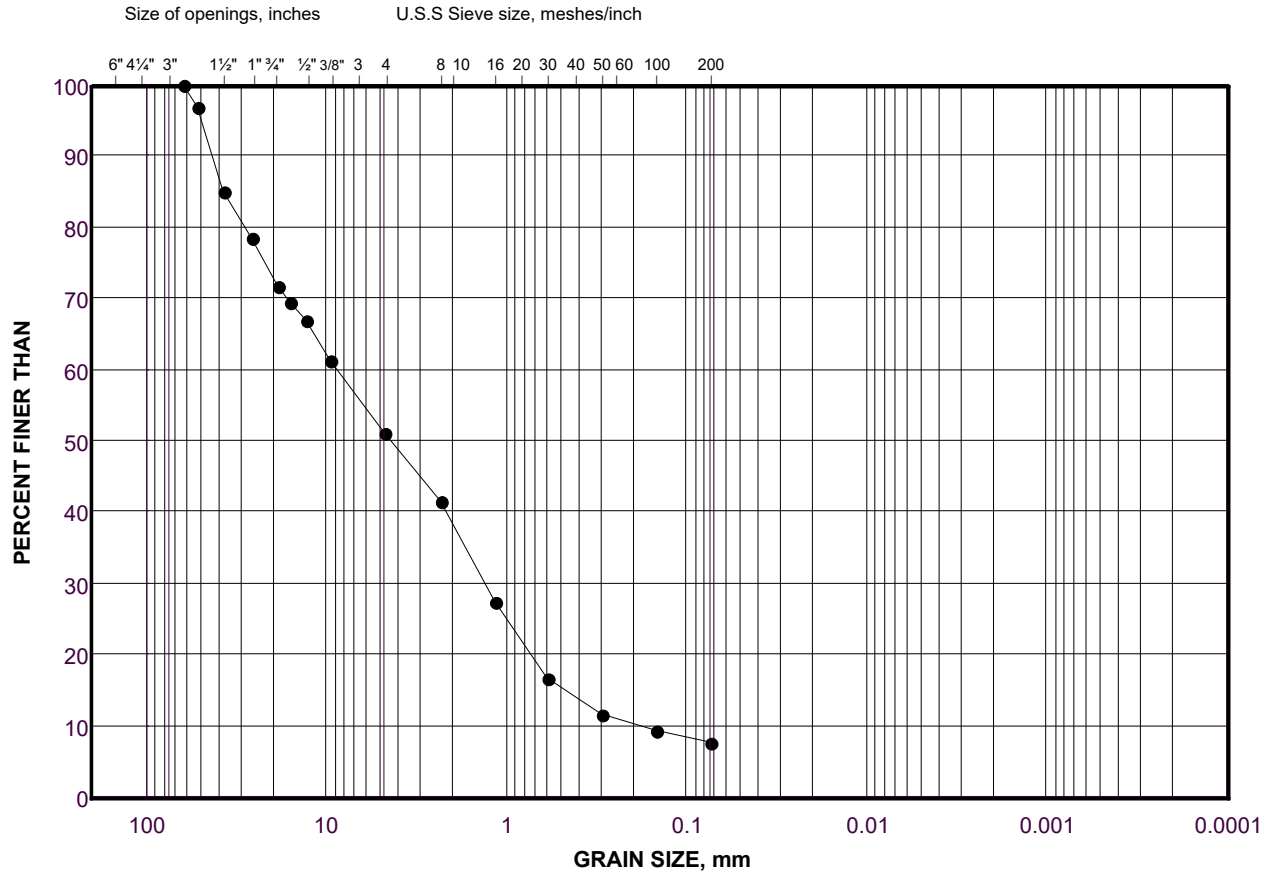
Depth 89
Units Imperial
Testing Date 3/29/22 10:42:59 AM
Tested By Sieve - TP
LabID 22-567

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | MW 21-04 | 18 | 84.0 - 89.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 11852(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 0.00 | 0.00 | 53.00 | 100.0 |
| 37.5mm | 1478.00 | 12.47 | 37.50 | 87.5 |
| 26.5mm | 2920.00 | 12.17 | 26.50 | 75.4 |
| 19.0mm | 3864.00 | 7.96 | 19.00 | 67.4 |
| 16mm | 4236.00 | 3.14 | 16.00 | 64.3 |
| 13.2mm | 4642.00 | 3.43 | 13.20 | 60.8 |
| 9.5mm | 5370.00 | 6.14 | 9.50 | 54.7 |
| 4.75mm | 6536.00 | 9.84 | 4.75 | 44.9 |
| PAN | 5267.00 | 44.85 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 54.55 | 7.26 | 2.36 | 37.6 |
| 1.18mm | 121.10 | 8.86 | 1.18 | 28.7 |
| 600µm | 176.24 | 7.34 | 0.60 | 21.4 |
| 300µm | 206.57 | 4.04 | 0.30 | 17.4 |
| 150µm | 224.48 | 2.38 | 0.15 | 15.0 |
| 75µm | 242.53 | 2.40 | 0.08 | 12.6 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-04
Sample Number 19
Checked By _____

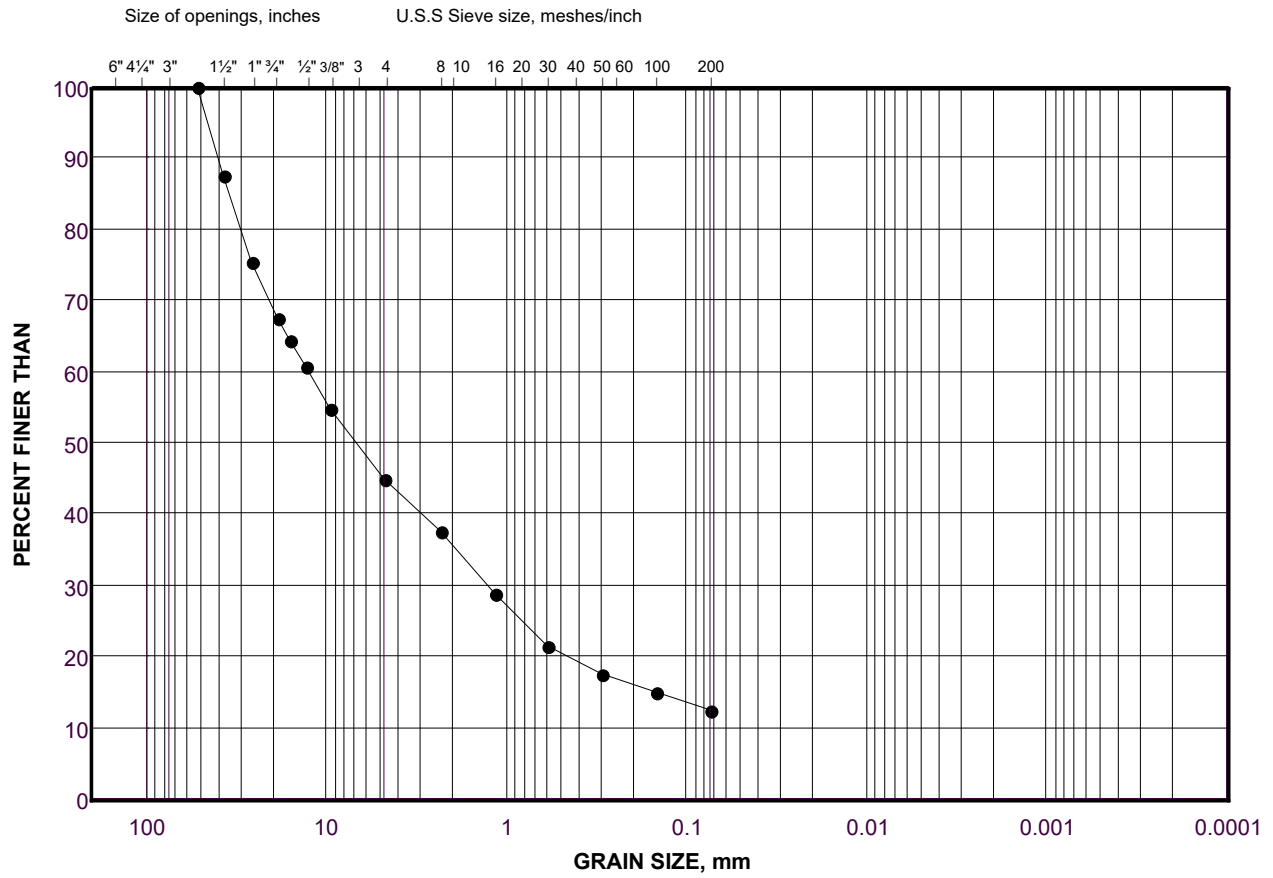
Depth 94
Units Imperial
Testing Date 3/29/22 10:45:27 AM
Tested By Sieve - JB
LabID 22-581

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|---------------|--------------------|------|------------------|--------|------|---------------------|
| COBBLE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| SIZE | GRAVEL SIZE | | SAND SIZE | | | FINE GRAINED |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| ● | MW 21-04 | 19 | 89.0 - 94.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 18031.2(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 1119.10 | 6.21 | 63.00 | 93.8 |
| 53mm | 3192.30 | 11.50 | 53.00 | 82.3 |
| 37.5mm | 4386.70 | 6.62 | 37.50 | 75.7 |
| 26.5mm | 6095.90 | 9.48 | 26.50 | 66.2 |
| 19.0mm | 7919.40 | 10.11 | 19.00 | 56.1 |
| 16mm | 8768.80 | 4.71 | 16.00 | 51.4 |
| 13.2mm | 9722.40 | 5.29 | 13.20 | 46.1 |
| 9.5mm | 10786.70 | 5.90 | 9.50 | 40.2 |
| 4.75mm | 12048.90 | 7.00 | 4.75 | 33.2 |
| PAN | 5961.30 | 33.18 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 46.70 | 5.46 | 2.36 | 27.7 |
| 1.18mm | 108.40 | 7.21 | 1.18 | 20.5 |
| 600µm | 176.80 | 7.99 | 0.60 | 12.5 |
| 300µm | 211.60 | 4.07 | 0.30 | 8.4 |
| 150µm | 225.70 | 1.65 | 0.15 | 6.8 |
| 75µm | 235.60 | 1.16 | 0.08 | 5.6 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-04
Sample Number 20
Checked By _____

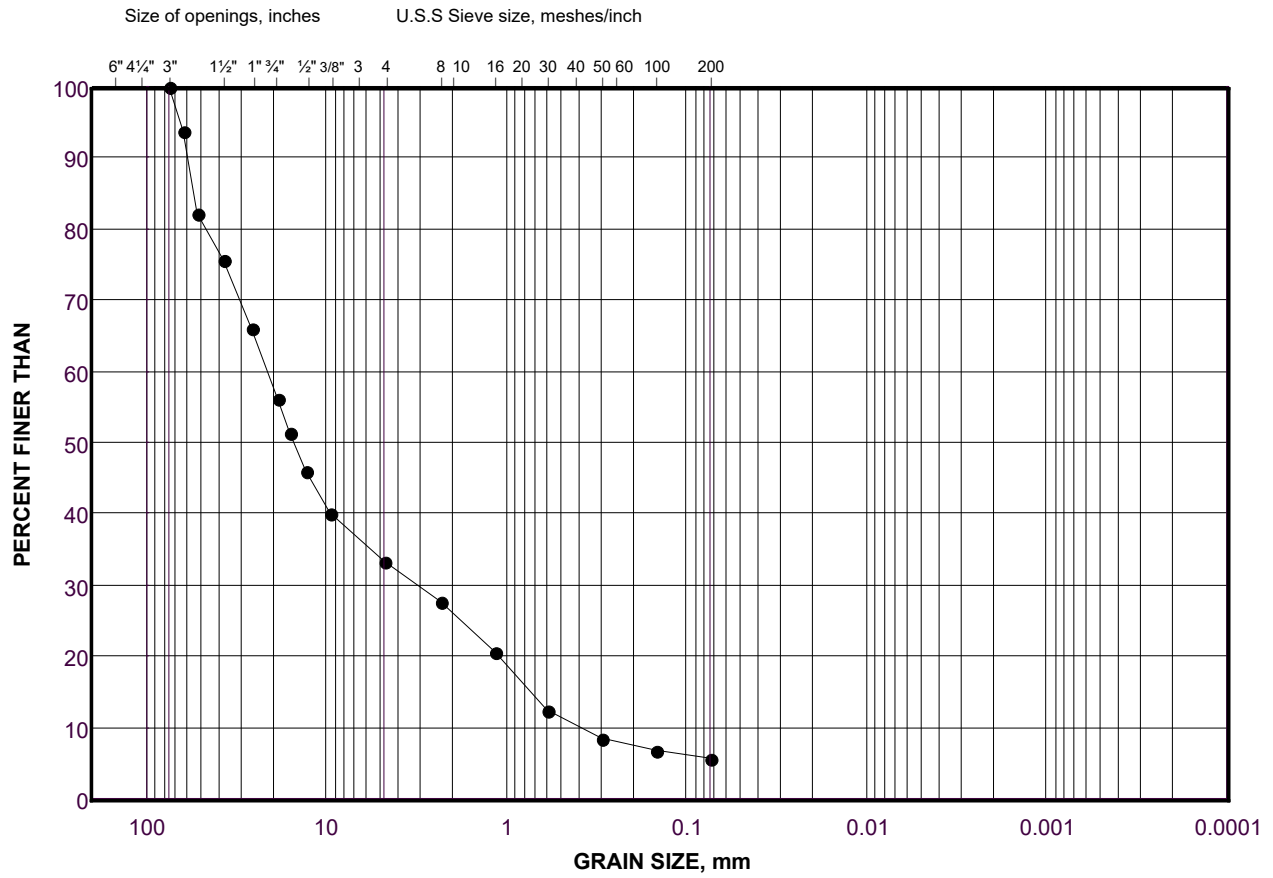
Depth 99
Units Imperial
Testing Date 3/08/22 1:27:27 PM
Tested By Sieve - TP
LabID 22-440

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|----------------|-------------|------|-----------|--------|------|---------------------|
| COBBLE SIZE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|-------------|
| • | MW 21-04 | 20 | 94.0 - 99.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

SOIL SIEVE ANALYSIS

Initial weight of dry sample = 16148(g)

COARSE SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 75mm | 0.00 | 0.00 | 75.00 | 100.0 |
| 63mm | 0.00 | 0.00 | 63.00 | 100.0 |
| 53mm | 360.00 | 2.23 | 53.00 | 97.8 |
| 37.5mm | 814.00 | 2.81 | 37.50 | 95.0 |
| 26.5mm | 1940.00 | 6.97 | 26.50 | 88.0 |
| 19.0mm | 2680.00 | 4.58 | 19.00 | 83.4 |
| 16mm | 3070.00 | 2.42 | 16.00 | 81.0 |
| 13.2mm | 3366.00 | 1.83 | 13.20 | 79.2 |
| 9.5mm | 4084.00 | 4.45 | 9.50 | 74.7 |
| 4.75mm | 5076.00 | 6.14 | 4.75 | 68.6 |
| PAN | 10996.00 | 68.57 | 0.00 | 0.0 |

HYDROMETER BACK SIEVING

| SIEVE | CUM. MASS RETAINED (g) | % RETAINED | PARTICLE SIZE(mm) | % PASSING |
|--------|---------------------------|------------|----------------------|-----------|
| 2.36mm | 39.87 | 7.64 | 2.36 | 60.9 |
| 1.18mm | 121.96 | 15.73 | 1.18 | 45.2 |
| 600µm | 228.07 | 20.34 | 0.60 | 24.9 |
| 300µm | 289.95 | 11.86 | 0.30 | 13.0 |
| 150µm | 311.75 | 4.18 | 0.15 | 8.8 |
| 75µm | 323.05 | 2.17 | 0.08 | 6.7 |

Project Number 21476582
Project Task 1000
Borehole Number MW 21-04
Sample Number 21
Checked By _____

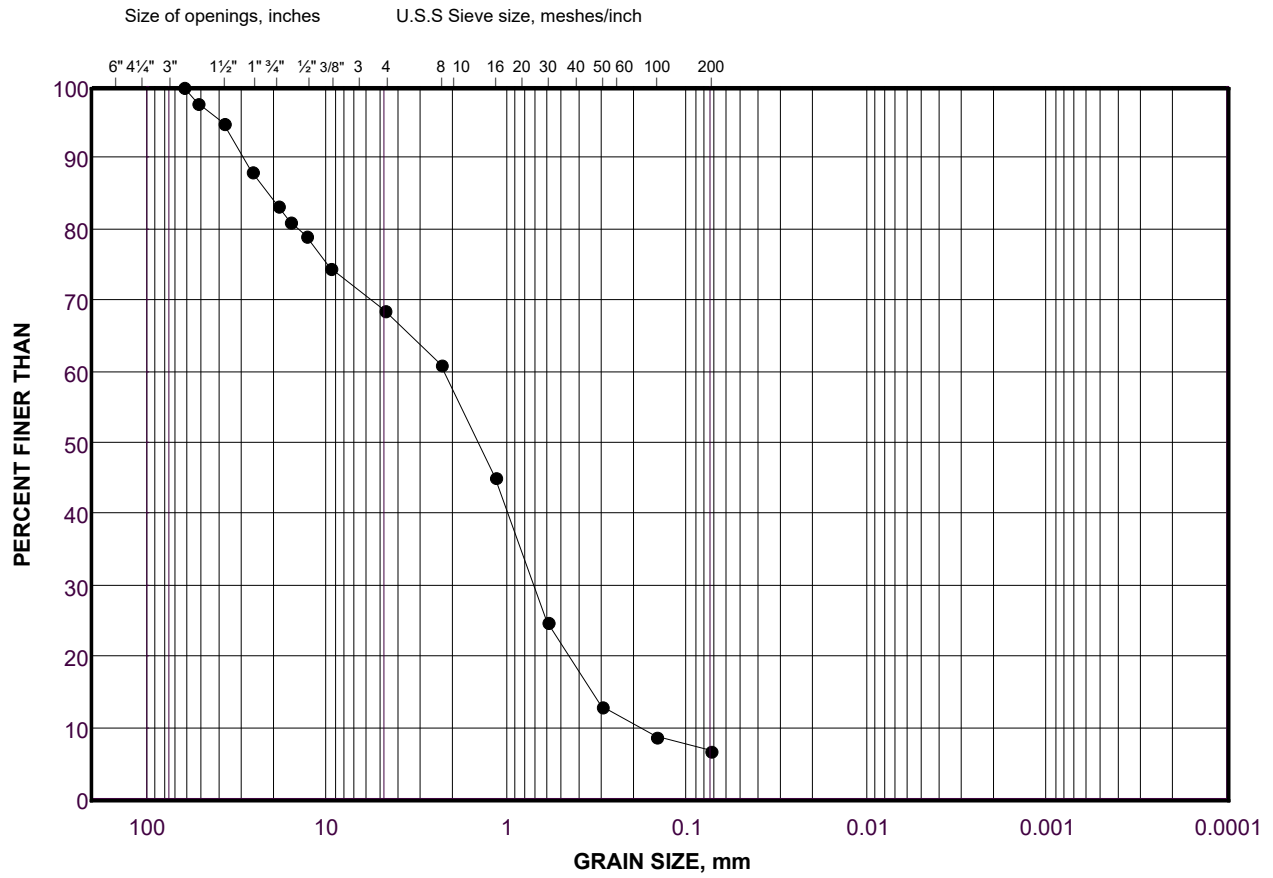
Depth 104
Units Imperial
Testing Date 3/29/22 10:49:37 AM
Tested By Sieve - JB
LabID 22-582

Golder Associates

GRAIN SIZE DISTRIBUTION

MTO LS-602

FIGURE



| | | | | | | |
|----------------|-------------|------|-----------|--------|------|---------------------|
| COBBLE SIZE | COARSE | FINE | COARSE | MEDIUM | FINE | SILT AND CLAY SIZES |
| | GRAVEL SIZE | | SAND SIZE | | | |

LEGEND

| SYMBOL | BOREHOLE | SAMPLE | DEPTH(ft) |
|--------|----------|--------|--------------|
| • | MW 21-04 | 21 | 99.0 - 104.0 |

Project Number: 21476582

Checked By: _____

Golder Associates

Date: 06-Apr-22

Project: 21476582

BH 21-01

| Run Depth (ft) | | | | Sample ID | Field Description (optional) | Full FM Value | Sand Portion FM Value | Wash Loss (%) | Crushable Stone (%) | Stone to Sand Ratio | | |
|----------------|-----|--------|-----|-----------|------------------------------|---------------|-----------------------|---------------|---------------------|---------------------|-------|------|
| Top | | Bottom | | | | | | | | Ratio | Stone | Sand |
| (ft) | (m) | (ft) | (m) | | | | | | | | | |
| 2 | | 3 | | 1B | | 0.69 | 0.69 | 42.3 | 0 | 0:100 | 0 | 100 |
| 3 | | 8 | | 2 | | 3.45 | 2.29 | 47.1 | 90 | 28:72 | 28 | 72 |
| 8 | | 13 | | 3 | | 5.20 | 2.87 | 38.1 | 23 | 42:58 | 42 | 58 |
| 13 | | 18 | | 4 | | 5.02 | 3.20 | 32.2 | 16 | 41:59 | 41 | 59 |
| 18 | | 23 | | 5 | | 7.05 | 3.82 | 27.4 | 32 | 58:42 | 58 | 42 |
| 23 | | 28 | | 6 | | | | | | | | |
| 28 | | 33 | | 7 | | 7.09 | 3.91 | 25.4 | 30 | 61:39 | 61 | 39 |
| 33 | | 38 | | 8 | | 4.36 | 2.96 | 36.4 | 11 | 35:65 | 35 | 65 |
| 38.0 | | 43 | | 9 | | 4.83 | 3.30 | 28.9 | 10 | 42:58 | 42 | 58 |
| 43.0 | | 48 | | 10 | | | | | | | | |
| 48.0 | | 53 | | 11 | | 6.03 | 3.59 | 17.0 | 28 | 50:50 | 50 | 50 |
| 53.0 | | 58 | | 12 | | | | | | | | |
| 58.0 | | 63 | | 13 | | 5.72 | 3.34 | 28.0 | 23 | 47:53 | 47 | 53 |
| 64.0 | | 69 | | 14A | | 7.02 | 3.97 | 19.5 | 27 | 62:38 | 62 | 38 |
| 66.0 | | 68 | | 14B | | 6.27 | 3.50 | 35.3 | 29 | 52:48 | 52 | 48 |
| 66.0 | | 68 | | 14C | | 3.00 | 1.93 | 54.2 | 10 | 26:74 | 26 | 74 |
| 68.0 | | 73 | | 15 | | | | | | | | |
| 73 | | 76 | | 16A | | 3.97 | 2.89 | 22.3 | 5 | 34:66 | 34 | 66 |

BH 21-02

| Run Depth (ft) | | | | Sample ID | Field Description (optional) | Full FM Value | Sand Portion FM Value | Wash Loss (%) | Crushable Stone (%) | Stone to Sand Ratio | | |
|----------------|-----|--------|-----|-----------|------------------------------|---------------|-----------------------|---------------|---------------------|---------------------|-------|------|
| Top | | Bottom | | | | | | | | Ratio | Stone | Sand |
| (ft) | (m) | (ft) | (m) | | | | | | | | | |
| 1.5 | | 3 | | 1B | | | | | | | | |
| 3 | | 8 | | 2 | | 2.52 | 1.83 | 48.3 | 5 | 20:80 | 20 | 80 |
| 8 | | 13 | | 3 | | 5.17 | 2.95 | 40.5 | 23 | 42:58 | 42 | 58 |
| 13 | | 18 | | 4 | | 4.20 | 2.58 | 40.2 | 15 | 32:68 | 32 | 68 |
| 18 | | 23 | | 5 | | 4.11 | 2.61 | 36.5 | 15 | 33:67 | 33 | 67 |
| 23 | | 28 | | 6 | | | | | | | | |
| 28 | | 33 | | 7 | | | | | | | | |
| 33 | | 38 | | 8 | | 3.82 | 2.46 | 41.5 | 13 | 31:69 | 31 | 69 |
| 38.0 | | 43 | | 9 | | 2.22 | 1.74 | 41.7 | 4 | 12:88 | 12 | 88 |
| 43.0 | | 48 | | 10 | | 4.84 | 2.79 | 40.4 | 21 | 40:60 | 40 | 60 |
| 48.0 | | 53 | | 11 | | 4.53 | 2.75 | 41.4 | 17 | 37:63 | 37 | 63 |
| 53.0 | | 58 | | 12 | | 4.39 | 2.94 | 36.1 | 13 | 36:64 | 36 | 64 |
| 58.0 | | 63 | | 13 | | 5.81 | 3.47 | 29.9 | 22 | 49:51 | 49 | 51 |
| 63.0 | | 68 | | 14 | | 6.91 | 3.95 | 21.8 | 32 | 58:42 | 58 | 42 |
| 68.0 | | 73 | | 15 | | 6.56 | 3.95 | 18.9 | 23 | 59:41 | 59 | 41 |
| 73 | | 78 | | 16 | | 6.78 | 4.01 | 18.3 | 27 | 59:41 | 59 | 41 |

Project: 21476582

BH 21-03

| Run Depth (ft) | | | | Sample ID | Field Description (optional) | Full FM Value | Sand Portion FM Value | Wash Loss (%) | Crushable Stone (%) | Stone to Sand Ratio | | |
|----------------|-----|--------|-----|-----------|------------------------------|---------------|-----------------------|---------------|---------------------|---------------------|-------|------|
| Top | | Bottom | | | | | | | | Ratio | Stone | Sand |
| (ft) | (m) | (ft) | (m) | | | | | | | | | |
| 0.5 | | 3 | | 1B | | 6.58 | 2.12 | 28.9 | 36 | 55:45 | 55 | 45 |
| 3 | | 8 | | 2 | | 5.02 | 2.84 | 41.4 | 23 | 40:60 | 40 | 60 |
| 8 | | 13 | | 3 | | 5.47 | 3.16 | 32.0 | 22 | 42:58 | 42 | 58 |
| 13.0 | | 18 | | 4 | | 4.88 | 3.27 | 21.4 | 14 | 39:61 | 39 | 61 |
| 18 | | 23 | | 5 | | 6.13 | 3.62 | 26.9 | 23 | 53:47 | 53 | 47 |
| 23 | | 28 | | 6 | | 6.65 | 3.81 | 27.5 | 28 | 60:40 | 60 | 40 |
| 28 | | 33 | | 7 | | 5.52 | 3.02 | 43.7 | 24 | 45:55 | 45 | 55 |
| 33 | | 38 | | 8 | | 4.85 | 3.11 | 34.8 | 15 | 42:58 | 42 | 58 |
| 38.0 | | 43 | | 9 | | | | | | | | |
| 43.0 | | 48 | | 10 | | 5.11 | 3.14 | 40.0 | 20 | 45:55 | 45 | 55 |
| 48.0 | | 53 | | 11 | | 5.50 | 3.35 | 18.1 | 22 | 40:60 | 40 | 60 |
| 53.0 | | 58 | | 12 | | 3.87 | 2.81 | 35.5 | 7 | 33:67 | 33 | 67 |
| 58.0 | | 63 | | 13 | | 4.75 | 3.15 | 32.7 | 14 | 40:60 | 40 | 60 |
| 63.0 | | 68 | | 14 | | 5.82 | 3.57 | 24.8 | 20 | 49:51 | 49 | 51 |
| 68.0 | | 73 | | 15 | | | | | | | | |
| 73.0 | | 78 | | 16 | | 4.05 | 3.00 | 26.7 | 7 | 33:67 | 33 | 67 |
| 78.0 | | 83 | | 17 | | 5.58 | 3.41 | 37.2 | 21 | 50:50 | 50 | 50 |
| 83 | | 88 | | 18 | | 6.29 | 3.80 | 24.1 | 23 | 55:45 | 55 | 45 |
| 88.0 | | 93 | | 19 | | 7.46 | 3.89 | 13.7 | 35 | 59:41 | 59 | 41 |
| 93.0 | | 98 | | 20 | | 7.34 | 4.18 | 12.6 | 28 | 65:35 | 65 | 35 |
| 98.0 | | 103 | | 21 | | 5.60 | 3.30 | 26.3 | 21 | 49:51 | 49 | 51 |
| 103 | | 107 | | 22A | | 0.38 | 0.32 | 24.8 | 0 | 2:98 | 2 | 98 |

Project: 21476582

BH 21-04

| Run Depth (ft) | | | | Sample ID | Field Description (optional) | Full FM Value | Sand Portion FM Value | Wash Loss (%) | Crushable Stone (%) | Stone to Sand Ratio | | |
|----------------|-----|--------|-----|-----------|------------------------------|---------------|-----------------------|---------------|---------------------|---------------------|-------|------|
| Top | | Bottom | | | | | | | | Ratio | Stone | Sand |
| (ft) | (m) | (ft) | (m) | | | | | | | | | |
| 0.8 | | 3 | | 1B | | 2.85 | 1.83 | 51.5 | 8 | 6:19 | 24 | 76 |
| 3 | | 8 | | 2 | | 3.47 | 2.39 | 42.7 | 9 | 29:71 | 29 | 71 |
| 8 | | 9 | | 3A | | 5.06 | 2.99 | 44.3 | 22 | 11:14 | 44 | 56 |
| 8 | | 13 | | 3B | | 3.52 | 2.42 | 44.7 | 8 | 7:18 | 28 | 72 |
| 13 | | 18 | | 4 | | 3.74 | 2.00 | 46.4 | 11 | 31:69 | 31 | 69 |
| 18 | | 23 | | 5 | | 4.69 | 2.74 | 43.0 | 17 | 7:13 | 35 | 65 |
| 23 | | 28 | | 6 | | 5.58 | 3.19 | 58.0 | 25 | 9:11 | 45 | 55 |
| 28 | | 33 | | 7 | | | | | | | | |
| 33 | | 38 | | 8 | | | | | | | | |
| 38 | | 43 | | 9 | | 5.46 | 3.33 | 29.8 | 22 | 43:57 | 43 | 57 |
| 43 | | 48 | | 10 | | 6.62 | 3.87 | 16.9 | 28 | 57:43 | 57 | 43 |
| 48 | | 53 | | 11 | | 5.36 | 3.14 | 45.0 | 21 | 47:53 | 47 | 53 |
| 53 | | 57 | | 12A | | 3.06 | 2.38 | 26.5 | 2 | 24:76 | 24 | 76 |
| 57 | | 58 | | 12B | | 4.23 | 2.72 | 33.0 | 16 | 17:33 | 34 | 66 |
| 58 | | 63 | | 13 | | 5.79 | 3.89 | 11.3 | 25 | 49:51 | 49 | 51 |
| 63 | | 68 | | 14 | | | | | | | | |
| 68 | | 73 | | 15 | | | | | | | | |
| 73 | | 78 | | 16 | | | | | | | | |
| 78 | | 83 | | 17 | | | | | | | | |
| 83 | | 88 | | 18 | | 7.57 | 4.07 | 13.2 | 37 | 16:9 | 64 | 36 |
| 88 | | 93 | | 19 | | 8.68 | 4.48 | 24.1 | 40 | 81:19 | 81 | 19 |

MW 21-01

| Run Depth (ft) | | | | Sample ID | Field Description (optional) | Full FM Value | Sand Portion FM Value | Wash Loss (%) | Crushable Stone (%) | Stone to Sand Ratio | | |
|----------------|-----|--------|-----|-----------|------------------------------|---------------|-----------------------|---------------|---------------------|---------------------|-------|------|
| Top | | Bottom | | | | | | | | Ratio | Stone | Sand |
| (ft) | (m) | (ft) | (m) | | | | | | | | | |
| 0.0 | | 1.5 | | 1A | | 2.59 | 1.81 | 46.1 | 8 | 24:76 | 24 | 76 |
| 1.5 | | 3 | | 1B | | 1.74 | 1.31 | 38.5 | 4 | 11:89 | 11 | 89 |
| 3 | | 8 | | 2 | | 5.11 | 3.04 | 35.4 | 20 | 43:57 | 43 | 57 |
| 8 | | 14 | | 3 | | 4.61 | 2.66 | 36.2 | 20 | 35:65 | 35 | 65 |
| 14.0 | | 19 | | 4 | | 4.23 | 2.84 | 31.4 | 12 | 35:65 | 35 | 65 |
| 19 | | 24 | | 5 | | 5.34 | 3.34 | 23.7 | 17 | 46:54 | 46 | 54 |
| 24 | | 29 | | 6 | | 6.06 | 3.82 | 26.8 | 22 | 51:49 | 51 | 49 |
| 29.0 | | 34 | | 7 | | 4.66 | 3.01 | 27.8 | 16 | 36:64 | 36 | 64 |
| 34 | | 39 | | 8 | | 6.86 | 3.71 | 28.8 | 33 | 56:44 | 56 | 44 |
| 39.0 | | 44 | | 9 | | 2.52 | 2.13 | 38.8 | 0 | 19:81 | 19 | 81 |
| 44.0 | | 49 | | 10 | | 9.07 | 4.39 | 15.0 | 50 | 75:25 | 75 | 25 |
| 49.0 | | 54 | | 11 | | 8.93 | 4.55 | 6.7 | 49 | 75:25 | 75 | 25 |
| 54.0 | | 59 | | 12 | | 7.10 | 4.30 | 13.1 | 26 | 65:35 | 65 | 35 |
| 59.0 | | 64 | | 13 | | 5.79 | 3.92 | 4.6 | 14 | 48:52 | 48 | 52 |
| 64.0 | | 69 | | 14 | | | | | | | | |
| 69.0 | | 74 | | 15 | | 8.51 | 4.40 | 15.8 | 40 | 73:27 | 73 | 27 |

Project: 21476582

MW 21-02

| Run Depth (ft) | | | | Sample ID | Field Description (optional) | Full FM Value | Sand Portion FM Value | Wash Loss (%) | Crushable Stone (%) | Stone to Sand Ratio | | |
|----------------|-----|--------|-----|-----------|------------------------------|---------------|-----------------------|---------------|---------------------|---------------------|-------|------|
| Top | | Bottom | | | | | | | | Ratio | Stone | Sand |
| (ft) | (m) | (ft) | (m) | | | | | | | | | |
| 3 | | 4 | | 2A | | 3.54 | 2.28 | 36.6 | 8 | 29:71 | 29 | 71 |
| 3 | | 8 | | 2B | | 3.44 | 2.47 | 41.9 | 8 | 28:72 | 28 | 72 |
| 8 | | 13 | | 3 | | 3.21 | 2.28 | 43.7 | 8 | 25:75 | 25 | 75 |
| 13 | | 18 | | 4 | | 4.59 | 2.83 | 43.2 | 17 | 40:60 | 40 | 60 |
| 18 | | 23 | | 5 | | 4.22 | 2.61 | 42.7 | 16 | 35:65 | 35 | 65 |
| 23 | | 24.5 | | 6A | | 6.32 | 3.65 | 34.6 | 27 | 56:44 | 56 | 44 |
| 23 | | 28 | | 6B | | 5.91 | 3.66 | 22.6 | 19 | 52:48 | 52 | 48 |
| 28 | | 33 | | 7 | | 6.01 | 3.75 | 24.6 | 20 | 53:47 | 53 | 47 |
| 33 | | 38 | | 8 | | 5.61 | 3.58 | 24.7 | 18 | 48:52 | 48 | 52 |
| 38 | | 43 | | 9 | | 7.95 | 4.15 | 19.6 | 39 | 66:34 | 66 | 34 |
| 43 | | 48 | | 10 | | 6.73 | 3.86 | 23.3 | 30 | 59:41 | 59 | 41 |
| 48 | | 53 | | 11 | | 7.55 | 4.07 | 19.0 | 34 | 65:35 | 65 | 35 |
| 53 | | 58 | | 12 | | 7.23 | 4.09 | 19.0 | 30 | 62:38 | 62 | 38 |
| 58 | | 63 | | 13 | | 6.69 | 3.99 | 20.6 | 25 | 59:41 | 59 | 41 |

Project: 21476582

MW 21-03

| Run Depth (ft) | | | | Sample ID | Field Description (optional) | Full FM Value | Sand Portion FM Value | Wash Loss (%) | Crushable Stone (%) | Stone to Sand Ratio | | |
|----------------|-----|--------|-----|-----------|---------------------------------|------------------|-----------------------------|------------------|---------------------|---------------------|-------|------|
| Top | | Bottom | | | | | | | | Ratio | Stone | Sand |
| (ft) | (m) | (ft) | (m) | | | | | | | | | |
| 3 | | 8 | | 2 | | 2.22 | 1.45 | 34.0 | 1 | 19:81 | 19 | 81 |
| 8 | | 13 | | 3 | | | | | | | | |
| 13 | | 18 | | 4 | | 2.40 | 2.20 | 14.4 | 0 | 12:88 | 12 | 88 |
| 18 | | 23 | | 5 | | 0.00 | 0.00 | 99.3 | 0 | 0:100 | 0 | 100 |
| 23 | | 28 | | 6A | | 0.08 | 0.08 | 93.9 | 0 | 0:100 | 0 | 100 |
| 27 | | 28 | | 6B | | 2.26 | 1.67 | 59.8 | 4 | 19:81 | 19 | 81 |
| 28 | | 33 | | 7 | | 5.39 | 2.85 | 44.5 | 28 | 42:58 | 42 | 58 |
| 33 | | 38 | | 8 | | 5.18 | 2.81 | 44.3 | 25 | 43:57 | 43 | 57 |
| 38 | | 43 | | 9 | | 3.07 | 2.50 | 37.1 | 4 | 22:78 | 22 | 78 |
| 43 | | 46 | | 10A | | 3.12 | 2.68 | 29.3 | 1 | 22:78 | 22 | 78 |
| 43 | | 48 | | 10B | | 4.37 | 2.63 | 42.9 | 17 | 35:65 | 35 | 65 |
| 48 | | 53 | | 11 | | 4.59 | 2.83 | 39.5 | 17 | 36:64 | 36 | 64 |
| 53 | | 58 | | 12 | | 4.15 | 2.55 | 44.7 | 17 | 34:66 | 34 | 66 |
| 58 | | 63 | | 13 | | 3.31 | 2.70 | 18.1 | 3 | 19:81 | 19 | 81 |
| 63 | | 65.5 | | 14A | | 3.59 | 3.03 | 20.6 | 3 | 20:80 | 20 | 80 |
| 63 | | 68 | | 14B | | 8.17 | 4.27 | 15.6 | 41 | 65:35 | 65 | 35 |
| 68 | | 73 | | 15 | | 6.35 | 3.54 | 28.1 | 29 | 51:49 | 51 | 49 |
| 73 | | 78 | | 16 | | 9.35 | 4.49 | 20.0 | 50 | 80:20 | 80 | 20 |
| 78 | | 83 | | 17 | | 8.94 | 4.29 | 21.8 | 51 | 76:24 | 76 | 24 |

Project: 21476582

MW 21-04

| Run Depth (ft) | | | | Sample ID | Field Description (optional) | Full FM Value | Sand Portion FM Value | Wash Loss (%) | Crushable Stone (%) | Stone to Sand Ratio | | |
|----------------|-----|--------|-----|-----------|---------------------------------|------------------|-----------------------------|------------------|---------------------|---------------------|-------|------|
| Top | | Bottom | | | | | | | | Ratio | Stone | Sand |
| (ft) | (m) | (ft) | (m) | | | | | | | | | |
| 0 | | 4 | | 1B | | 3.06 | 1.76 | 65.8 | 14 | 24:76 | 24 | 76 |
| 4 | | 9 | | 2 | | 3.53 | 2.12 | 55.8 | 15 | 28:72 | 28 | 72 |
| 9 | | 10 | | 3A | | 1.25 | 1.14 | 58.7 | 0 | 6:94 | 6 | 94 |
| 9 | | 14 | | 3B | | 7.46 | 3.83 | 27.1 | 37 | 60:40 | 60 | 40 |
| 14 | | 19 | | 4 | | 8.13 | 4.15 | 28.4 | 42 | 68:32 | 68 | 32 |
| 19 | | 24 | | 5 | | 5.69 | 3.68 | 20.2 | 17 | 50:50 | 50 | 50 |
| 24 | | 27.5 | | 6A | | 7.73 | 3.92 | 25.5 | 39 | 62:38 | 62 | 38 |
| 28 | | 29 | | 6B | | 2.55 | 1.80 | 50.3 | 7 | 19:81 | 19 | 81 |
| 29 | | 34 | | 7 | | 5.10 | 2.90 | 40.0 | 23 | 42:58 | 42 | 58 |
| 34 | | 38.5 | | 8A | | 6.22 | 3.59 | 30.8 | 25 | 53:47 | 53 | 47 |
| 34 | | 39 | | 8B | | 4.85 | 2.70 | 58.6 | 23 | 40:60 | 40 | 60 |
| 39 | | 44 | | 9 | | 4.99 | 3.42 | 18.0 | 12 | 42:58 | 42 | 58 |
| 44 | | 49 | | 10 | | 12.38 | 3.50 | 24.3 | 17 | 49:51 | 49 | 51 |
| 49 | | 54 | | 11A | | 5.92 | 3.58 | 26.2 | 20 | 51:49 | 51 | 49 |
| 51.5 | | 52 | | 11B | | 1.45 | 1.34 | 46.9 | 0 | 6:94 | 6 | 94 |
| 54 | | 59 | | 12 | | 5.91 | 3.76 | 20.4 | 17 | 53:47 | 53 | 47 |
| 59 | | 64 | | 13 | | 6.73 | 3.80 | 24.5 | 28 | 56:44 | 56 | 44 |
| 64 | | 69 | | 14 | | 5.99 | 3.71 | 25.6 | 19 | 52:48 | 52 | 48 |
| 69 | | 74 | | 15 | | 6.36 | 3.99 | 10.8 | 22 | 54:46 | 54 | 46 |
| 74 | | 79 | | 16 | | 7.67 | 4.13 | 18.8 | 44 | 65:35 | 65 | 35 |
| 79 | | 84 | | 17 | | 7.42 | 4.24 | 16.1 | 31 | 63:37 | 63 | 37 |
| 84 | | 89 | | 18 | | 6.13 | 3.94 | 12.8 | 22 | 49:51 | 49 | 51 |
| 89 | | 94 | | 19 | | 6.25 | 3.80 | 27.4 | 25 | 55:45 | 55 | 45 |
| 94 | | 99 | | 20 | | 7.79 | 4.24 | 16.6 | 34 | 67:33 | 67 | 33 |
| 99 | | 104 | | 21 | | 4.80 | 3.47 | 13.2 | 12 | 31:69 | 31 | 69 |

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