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SHERWOOD MINING CORPORATION

# MINTO GEOTECHNICAL (OPEN PIT) FEASIBILITY STUDY

1200173

March 2006

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## EXECUTIVE SUMMARY

Sherwood Mining Corporation ("Sherwood") is a publicly traded mining company engaged in the exploration and development of mineral properties in North America. Sherwood controls a 100% interest in an advanced exploration project; the Minto Property ("Minto"), located approximately 240 kilometers northwest of Whitehorse, Yukon Territory.

Work to date has outlined a significant copper-gold deposit from which resource estimations, compliant with NI43-101 standards, have been completed totalling 8,340,000 tonnes; grading 1.83% copper, 0.016 g/tonne gold and 0.232 g/tonne silver, in the measured and indicated categories, with a further 700,000 tonnes grading 1.41% copper in the inferred category (using a 0.5% copper cutoff).

Sherwood is currently completing a Feasibility Study for the property by various consultants including EBA Engineering Consultants Ltd. ("EBA"). This study focuses on geotechnical (open-pit) aspects of the deposit. Results from this study (along with others currently being completed, i.e. Metallurgy, Economics, Resource Estimation) will be used to develop a mine plan on which a financial analysis can be completed to determine the viability of the project. The study may be used to raise funds for the advancement of the project.

According to the present schedule and based on the results of the Feasibility Study, Sherwood is planning to have sufficient information to make a production decision, and to proceed with development in the second quarter of 2006.

A compilation of recent and previous geotechnical data including field mapping, core drilling, engineering logging, laboratory test work, orientations, analysis, RMR modeling and structural domain designation has been completed by EBA. Results of the compilation and analyses suggest the following Minto ultimate pit slope configurations.

**TABLE 1 MINTO ULTIMATE PIT SLOPE CONFIGURATIONS**

| Structural Domain | Wall Azimuth | Bench Face Angle | Operating Bench, m | Operating Inter Ramp Angle | Drainage IRA | Overall Slope |
|---|---|---|---|---|---|---|
| 1 | Various | 65° | 3 | 8 | 51° | 50° |
| 2 | 30/330 | 47° | 3 | 8 | 38° | 37° |
| 3 | Various | 58° | 3 | 8 | 46° | 45° |
| 4 | 30/330 | 32° | NA | NA | 32° | 30° |

Effective blasting and drainage will be critical to achieve these recommended slope angles.

During operations, aggressive trial slopes can be tested to help optimize maximum slope angles for all mining phases. Recommendations for aggressive slope angles are beyond the scope of this feasibility.

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## 1.0 INTRODUCTION

Sherwood Copper Inc. ("Sherwood") is a publicly traded mining company engaged in the exploration and development of mineral properties in North America. Sherwood controls a 100% interest in an advanced exploration project; the Minto Property ("Minto"), located approximately 240 kilometers northwest of Whitehorse, Yukon Territory (Figures 1, 2 and 3).

Work to date has outlined a significant copper-gold deposit from which resource estimations compliant with NI43-101 standards have been completed totalling 8,340,000 tonnes; grading 1.83% copper, 0.016 g/tonne gold and 0.232 g/tonne silver in the measured and indicated categories with a further 700,000 tonnes grading 1.41% copper in the inferred category (using a 0.5% Copper cutoff).

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## 2.0 PREVIOUS GEOTECHNICAL WORK

Three significant geotechnical studies have been previously completed at Minto, the drill hole locations from these studies are shown on (Figure 4), and detailed below:

- Report to United Keno Hill Mines Ltd. on the Geotechnical Aspects of Mine Design at the DEF (Minto) Property, Golder Associates, November 1974.
- Geotechnical Evaluation Minto Core, SRK Consulting Engineers, January 1994.
- Geotechnical Logging of Minto Core, Minto Exploration Personnel (MintoEx), 2005.

The Golder study consisted of geologic mapping, core drilling and logging, point load testing, geotechnical laboratory testing, surface and groundwater data collection and review, and thermistor installation and data collection. All information in this study is consistently qualified and has been used extensively in EBA's compilation of geotechical parameters and analysis for pit slope configurations, undertaken in this report.

Geological mapping by Golder's in 1974 was based on limited outcrops and significant exposures in several excavated trenches. Collection of surface discontinuity data from these trenches is considered to be the best surface data collected to date. The trenches are

currently eroded and have minor exposure of bedrock. Stereographic analysis of discontinuity data showed three major joint sets and are presented in Table 2.

**TABLE 2 GOLDER 1974 SURFACE MAPPING JOINT SETS**

| No. of Joints | Joint Orientation | | Joint Filling (%) | | | | | | | Type (%) | | | Roughness (%) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Dip | Dip Direction | Epidote | Haematite | Limonite | Malachite | Calcite | Clay | Clean | Planar | Curved | Stepped | Smooth | Rough | Very Rough | Slicks |
| 86 | 44 to 66 | 110 to 150 | 0.0 | 0.0 | 37.2 | 2.4 | 0.0 | 2.3 | 58.1 | 90.7 | 2.3 | 7.0 | 2.3 | 86.0 | 9.3 | 2.3 |
| 58 | 21 to 38 | 110 to 150 | 0.0 | 0.0 | 3.5 | 0.0 | 5.2 | 0.0 | 92.4 | 100.0 | 0.0 | 0.0 | 0.0 | 94.9 | 5.1 | 0.0 |
| 117 | 82 to 90 | 215 to 252 | 1.7 | 1.7 | 34.2 | 5.1 | 0.0 | 0.0 | 57.3 | 94.9 | 0.0 | 5.1 | 0.0 | 89.7 | 10.3 | 0.0 |

In summary, the majority of surface joint sets show a near-vertical dip to the northwest into the proposed northern pit slopes. Joints dipping to the southeast or into the proposed pit are considered for the most part, to have rough planar discontinuous surfaces. These joints will likely produce wedge-type failures within the northern pit slopes. These potential instabilities should be limited to bench scale size and be discontinuous, requiring some monitoring and maintenance.

Core drilling by Golder's in 1974 consisted of 31 holes. Geotechnical logging focused on weathering, recovery, fault locations, hardness and joint density. This data is considered insufficient for use in the RMR model. Downhole discontinuity data was reviewed and generally used for joint set orientation verification.

Point Load Testing by Golder's in 1974 consisted of 963 tests from 7 selected core holes and is summarized in Table 3.

**TABLE 3 GOLDER 1974 POINT LOAD TESTING**

| Depth | Average Is (50) |
|---|---|
| 0 to 50 | 235.1 |
| 50 to 100 | 159.94 |
| 100 to 150 | 306.74 |
| 150 to 200 | 348.36 |
| 200 to 300 | 539.53 |
| 300 to 400 | 648.88 |
| 400 to 500 | 621.02 |

Results from point load testing generally show the affects of near-surface weathering with increased rock strength to depth. No drill hole location information is available on this data.

Significant laboratory testwork was completed by Golder's in 1974. Tests included uniaxial compression testing, direct shear testing of joints in core, residual soil testing from weathered materials in trenches, and clay testing.

Uniaxial testwork was completed on 12 samples from 9 core holes with varying depths and degrees of weathering. Table 4 states the results.

**TABLE 4 GOLDER UNIAXIAL COMPRESSION TEST RESULTS**

| Drill Hole | Depth (ft.) | Weathering | Strength (psi) | MPA | Failure |
|---|---|---|---|---|---|
| 73-24 | 131 | Slight | 11,909 | 82.11 | Planar |
| 73-24 | 412 | Slight | 13,340 | 91.98 | Shattered |
| 73-24 | 330 | Fresh | 18,310 | 126.24 | Planar |
| 73-37 | 272 | Fresh (foliated) | 11,050 | 76.19 | Planar |
| 74-42 | 91 | Moderate | 4,240 | 29.23 | Planar |
| 74-42 | 380 | Fresh | 25,200 | 173.75 | Shattered |
| 74-44 | 138 | Moderate | 4,850 | 33.44 | Shattered |
| 74-51 | 63 | Moderate | 5,350 | 36.89 | Shattered |
| 74-68 | 144 | Slight | 10,330 | 71.22 | Planar |
| 74-77 | 120 | Highly | 2,040 | 14.07 | Irregular |
| 74-80 | 440 | Fresh | 16,680 | 115.00 | Shattered |
| 74-82 | 118 | Slight | 13,700 | 94.46 | Planar |

Golder completed direct shear testing on 13 samples from 6 core holes, as summarised in Table 5. These tests are considered representative for deposit materials.

**TABLE 5 SUMMARY OF GOLDER DIRECT SHEAR TESTING**

| Drill Hole | Depth (ft) | Weathering | Joint Dip | Dip Direction | Friction Angle |
|---|---|---|---|---|---|
| 73-15 | 208 | Fresh | 35 | 152 | 54 |
| 73-15 | 229 | Fresh | 22 | 100 | 39 |
| 74-87 | 291 | Fresh | 52 | 135 | - |
| 74-58 | 196 | Fresh | 52 | 126 | 51 |
| 74-42 | 137 | Slight | 30 | 042 | 53 |
| 74-42 | 142 | Slight | 62 | 230 | 45 |
| 74-57 | 358 | Fresh | 47 | 262 | 35 |
| 74-82 | 672 | Fresh | 45 | 327 | 39 |
| 74-82 | 678 | Fresh | 37 | 122 | 46 |
| 73-15 | 224 | Fresh | 47 | 142 | 47 |
| 74-42 | 129 | Slight | 33 | 060 | 39 |
| 74-42 | 158 | Moderate | 28 | 090 | 44 |
| 74-42 | 146 | Slight | 43 | 118 | 37 |

Testing was also completed on the unconsolidated material located on the south side of the deposit, friction angles found from test rock show a range of 30 to 31° with zero cohesion. Field measurements of repose angles on exposed materials suggest that lab testing defines the maximum angle of repose.

Piezometer installation by Golder's in 1974 consisted of 5 open standpipes to a maximum depth of 140 metres. During 1974, groundwater levels were tested and found to follow the topography approximately 20 metres below surface on the north and east sides of the deposit and 30 metres on the west side. The majority of mineralization is located below the phreatic surface and, therefore, dewatering will be required during operations.

Packer testing by Golder's in 1974 consisted of 36 tests in 6 holes. Results generally showed higher permeability in weathered rock (5 x 10-5) and fractured material (1 x 10-6) as would be expected.

Thermistor installation and readings by Golder's in 1974 consisted of 5 cables. Generally, no freezing temperatures were noted in bedrock below 20 metres from the surface indicating minimum permafrost to be encountered in rock during mining. No test work was completed in overburden materials. No Golder thermistors currently exist.

The SRK field work was completed between October 26 to 29, 1993. With a follow up report in 1994, which consisted of a summary of logging 8 core holes to define Rock Mass Rating - RMR (after Bieniawski) and preliminary rippability of materials.

**TABLE 6 SRK CORE HOLE SUMMARY**

| Core Hole | Northing (m) | Easting (m) | Azimuth | Dip | Surface Elevation (m) | Total Depth (m) |
|---|---|---|---|---|---|---|
| 93A | 6945083 | 384562 | 0 | -90 | 832.0 | 100.90 |
| 93B | 6945214 | 384568 | 0 | -90 | 857.2 | 150.88 |
| 93C | 6945007 | 384569 | 0 | -90 | 809.5 | 96.01 |
| 93D | 6945108 | 384634 | 0 | -90 | 834.1 | 104.24 |
| 93E | 6945095 | 384690 | 0 | -90 | 826.4 | 203.73 |
| 93F | 6945035 | 384697 | 0 | -90 | 811.3 | 108.81 |
| 93G | 6945010 | 384625 | 0 | -90 | 804.4 | 76.81 |
| 93H | 6944984 | 384604 | 0 | -90 | 805.1 | 91.44 |

SRK completed uniaxial compressive tests on 8 representative samples from the core program as presented in Table 7.

| TABLE 7 SRK UNIAXIAL COMPRESSION TEST RESULTS | | |
|---|---|---|
| Drill Hole | Depth (ft.) | MPA |
| 93A | 295.0 | 109.6 |
| 93B | 406.0 | 77.8 |
| 93C | 190.5 | 78.1 |
| 93D | 225.0 | 101.5 |
| 93E | 184.5 | 73.4 |
| 93F | 150.5 | 24.4 |
| 93G | 166.0 | 36.5 |
| 93H | 190.5 | 82.2 |

The average laboratory testing strength was 72.9 MPa compared to a field estimate of 112.5 MPa.

In 2005, BGC trained Minto exploration personnel (MintoEx) to geotechnically log 32 core holes as summarized in Table 8 and presented in Appendix A along with available core photos. Holes 05SWC042 to 044 were located in overburden and logged both by MintoEx and EBA. Holes 05SWC01 to 08 were not geotechnically logged. Summary data for these holes can be found in Table 10.

| TABLE 8 2005 MINTO EXPLORATION CORE HOLE SUMMARY | | | | | | |
|---|---|---|---|---|---|---|
| Core Hole | Northing[1] (m) | Easting[1] (m) | Azimuth | Dip | Surface Elevation (m) | Total Depth (m) |
| 05SWC010 | 6945087 | 384494 | 0 | -90 | 847.4 | 139.29 |
| 05SWC012 | 6945078 | 384530 | 0 | -90 | 843.0 | 111.86 |
| 05SWC013 | 6945006 | 384596 | 0 | -90 | 812.9 | 92.05 |
| 05SWC015 | 6945045 | 384596 | 0 | -90 | 823.5 | 82.91 |
| 05SWC016 | 6945044 | 384650 | 0 | -90 | 822.7 | 74.98 |
| 05SWC017 | 6945081 | 384628 | 0 | -90 | 835.5 | 91.74 |
| 05SWC018 | 6944928 | 384714 | 0 | -90 | 811.7 | 142.34 |
| 05SWC019 | 6944923 | 384611 | 0 | -90 | 820.0 | 104.55 |
| 05SWC020 | 6944906 | 384597 | 0 | -90 | 820.5 | 96.62 |
| 05SWC021 | 6944882 | 384617 | 0 | -90 | 821.2 | 112.47 |
| 05SWC022 | 6944923 | 384741 | 0 | -90 | 812.0 | 107.29 |

| TABLE 8 2005 MINTO EXPLORATION CORE HOLE SUMMARY | | | | | | |
|---|---|---|---|---|---|---|
| Core Hole | Northing[1] (m) | Easting[1] (m) | Azimuth | Dip | Surface Elevation (m) | Total Depth (m) |
| 05SWC024 | 6944894 | 384567 | 0 | -90 | 830.5 | 81.38 |
| 05SWC025 | 6944928 | 384683 | 0 | -90 | 816.0 | 84.43 |
| 05SWC026 | 6944930 | 384658 | 0 | -90 | 818.7 | 183.49 |
| 05SWC027 | 6994959 | 384625 | 0 | -90 | 816.0 | 100.58 |
| 05SWC028 | 6944845 | 384638 | 0 | -90 | 822.2 | 122.53 |
| 05SWC029 | 6944891 | 384693 | 0 | -90 | 819.9 | 131.06 |
| 05SWC030 | 6944838 | 384660 | 0 | -90 | 822.9 | 97.67 |
| 05SWC031 | 6944880 | 384713 | 0 | -90 | 816.3 | 99.21 |
| 05SWC032 | 6944861 | 384692 | 0 | -90 | 816.1 | 94.79 |
| 05SWC033 | 6944899 | 384746 | 0 | -90 | 817.5 | 113.69 |
| 05SWC034 | 6944884 | 384671 | 0 | -90 | 819.0 | 133.20 |
| 05SWC035 | 6944845 | 384591 | 0 | -90 | 826.5 | 162.15 |
| 05SWC036 | 6944958 | 384680 | 0 | -90 | 814.8 | 110.34 |
| 05SWC037 | 6944848 | 384533 | 0 | -90 | 822.7 | 155.75 |
| 05SWC038 | 6945002 | 384542 | 180 | -61 | 819.7 | 161.85 |
| 05SWC039 | 6945002 | 384542 | 157 | -57 | 819.7 | 169.47 |
| 05SWC040 | 6944858 | 384555 | 320 | -69 | 823.4 | 163.37 |
| 05SWC041 | 6945051 | 384417 | 90 | -66 | 845.8 | 171.0 |

A majority of the oriented data collected from this program is considered to be internal to the proposed ultimate pit slopes and therefore was only reviewed with respect to overall structural trends, specifically, the east-west fracture zone in the central part of the pit. Holes that penetrated the proposed ultimate pit were reviewed for orientations of discontinuities and potential impacts.

All collected rock mass characterization data in this program was used in the RMR model and provided critical information in determining Phase I and II interim pit walls.

Under the direction of BGC Consulting, 1019 point load tests (PLTs) were completed by Minto Exploration personnel and have been reviewed for use in the RMR model (Section 6.0). Generally, the PLTs collected by MineEx are consistent with the previous results Golder presented (Table 3).

## 3.0 GENERAL GEOLOGY

Regionally, the Minto area lies within the Yukon Crystalline Terrane. The Yukon Crystalline Terrane consists mainly of Mesozoic plutonic rocks that have been intruded and overlain by Tertiary volcanic rocks (Figure 5).

Locally, the area is underlain by the Klotassin Batholith composed primarily of granodiorite with varying compositions from quartz diorite to quartz monzonite (Figure 6). The granodiorite is medium to coarse grained, massive to foliated and varies from equigranular to porphyritic. The foliation is caused by the alignment of mafic minerals, particularly biotite, and to a lesser extent, alignment of orthoclase crystals. The degree of foliation varies from weak to strong. In the strongly foliated phases, there is clear gneissic foliation and compositional banding with occasional cataclastic features. Composition of the massive and foliated phases is often very similar and contacts between phases may be gradational or sharp. The foliated zones are discontinuous and laterally interfinger with massive phases.

To the south of the property, Eocene Carmacks Group basalt, andesite flows and breccias overlie the Klotassin granodiorite. Narrow related northeast trending basalt and andesite dykes, which intrude the granodiorite are probably the feeders of the Carmacks volcanics.

In places, granodiorite conglomerates derived from debris from the in-situ breakdown of the granodiorite and immature sediments are found at the contact between the Klotassin granodiorite and the overlying Carmacks Group.

Outcrop on the property is limited to low ridges and hilltops. Float and subcrop can be seen in old trenches on the property and along newly cut drill roads.

Drilling has shown the property is underlain by granodiorite that is similar to other parts of the Klotassin batholith and has the same characteristics. Locally, the gneissic foliations vary from flat lying to steeply dipping to form a broad north trending synform. The deposit lies in the hinge of the synform, therefore, foliations are gentle to flat lying in general, in detail within the deposit, foliations have multiple discontinuous orientations.

The last glaciation to affect this site occurred around 100, 000 years ago. The most recent regional glaciation (10-20 000 years ago) terminated ~100 km to the southeast of the mine site. Hilltops and valley sides in this area are dominated by in-situ weathered granodiorite (Figure 7). Gentler slopes to the south and southwest of the site are additionally blanketed by 1-5 m of loess (massive very fine to fine sand with minor amounts of silt and clay). Lower valley sides may have thin, patchy veneers of glacial till, but are predominantly affected by local alluvial and colluvial processes. In particular, alluvial processes have been operating for at least 100 000 years and these sediments can reach thicknesses of tens of metres. Alluvial sediments are typically characterized by moderately to well-sorted sand and gravel with intermittent layers of fine-grained and organic material. A number of relict glaciofluvial terraces occur at tributary junctions with Minto Creek. These terraces are characterized by poorly sorted sand, gravel and cobbles.

The stratigraphy of surficial sediments at the Minto mine site can be classified into two predominant facies on either side of a fault located in the vicinity of Minto Creek. The first, occurring on the north side of the creek and extending over the northern ridge, is a weathered granite regolith. This material ranges from depths of a few centimeters to tens of metres, depending on the degree of downslope colluviation. Downslope movement is at best a moderate transportation process and much of the weathered material remains in-situ. Resistant pegmatitic intrusions occur within a highly weathered matrix of granodiorite 'gruss'. Colluvial fans (composed almost entirely of weathered granite) occur at the base of some steep slopes. Pockets of glacial till are likely to occur on the northern slope of the site, however, this unit is negligible in extent and volume.

The second facies occurs on the south side of the creek (and related fault) and is dominated by glacially derived or related surficial materials. Bedrock appears to have been down-dropped along the fault so that bedrock south of the fault lies approximately 50 m – 60 m below bedrock on the north side of the fault. Unconsolidated surficial material has subsequently buried the bedrock on the south side of Minto Creek. Highly compacted, basal glacial till is likely negligible or entirely absent. However, pockets of unsorted, silt-rich material that may represent glacial deposition occur from 40 m to 60 m below surface. Any glacially deposited material would be derived from older (>100 000 years) glaciations and therefore have undergone significant erosion and reworking during the inter-glacial period. From 10 m to 40 m below surface sediments are dominated by fluvial and/or glaciofluvial sequences characterized by well-sorted sand and gravel with minor amounts of silt, clay and cobbles. The uppermost 10 m of sediment is a combination of aeolian fine sand and silt; modern fluvial sand, silt and gravel; and organic peat and other vegetation.

Structurally, one significant fault has been defined in the proposed pit area. This fault has been termed the "DEF Fault" and is oriented approximately 280/60N. The DEF Fault varies from 1 to 5 meters wide with clay gouge and a clay alteration halo of approximately 5 meters. Displacement on the fault is unknown. A parallel to sub-parallel joint set is present and noted both in surface mapping and drill hole logging.

A potential second fault with an approximate orientation of 270/90 exists near the centre of the deposit complemented by the stream drainage. This fault appears to displace the mineralized zone 50 to 60 meters and is associated with a fracture zone estimated at 100 meters wide cutting through the east and west walls of the proposed open pit.

The structural geologic model features for the Minto deposit are based on fault zones and lithologies which form the structural domain boundaries, and rock structure within the individual structural domains (Section 5.0). The domain boundary fault zones are characterized according to discontinuity type (foliation, bedding, structure/fault zone, overburden or jointing in moderate to high hardness rock) and orientation.

# 4.0 2005 EBA GEOTECHNICAL FIELD PROGRAM

## 4.1 GEOLOGICAL MAPPING

EBA briefly completed a surface geological and geotechnical mapping program during the fall of 2005 drilling program (October to December). Outcrop is very limited with new drill hole access roads providing the best exposures for mapping. The trenches that were previously mapped in detail by Golder's are eroded and or caved give little to no geologic information.

Discontinuity data was collected by EBA along recently cut access roads and outcrops and showed the following orientations (Figure 8 and Appendix B).

**TABLE 9 SUMMARY OF MINTO SURFACE DISCONTINUITIES**

| Discontinuity | Average Orientation (dip-dip direction) | Filling | Geotechnical Impact |
|---|---|---|---|
| DEF Fault | 60/10 | Clay | Moderate |
| Granodiorite | 80/350 | Minor | Low |
| Foliation | 10/180 | Quartz, clay, miscellaneous | Low |
| Jointing Set | 87/0 | Chlorite, Clay | Moderate |

The most significant discontinuities for impacting pit slope designs are the joint sets with subsequent in-pit dipping orientations, which intersect the proposed north pit walls. These joints appear to be discontinuous and may effect the slope designs.

Test work was completed by Golder to determine discontinuity friction angles for "open" discontinuities and is presented in Section 2.0.

## 4.2 DRILLING

The geotechnical drill program was conducted under the supervision of EBA between October 28 to December 8, 2005. Access to the drilling locations was provided by on site contractors and 4 x 4 vehicles.

The investigation consisted of drilling, logging and sampling four (4) core holes along the north and west sides of the proposed ultimate pit and six (6) boreholes on the south side of the area for installation of thermistors.

Core holes provided critical data necessary for design of slope angles in the north and west sides of the proposed ultimate pit. The core holes were terminated at selected depths. The maximum depth of core drilling was 271 metres in the north area.

The boreholes on the south side of the deposit provided data regarding the overburden conditions, depth to bedrock and condition of the bedrock, which will be used for the

south wall design. The boreholes were terminated at selected depths. The maximum depth of borehole drilling was 62 meters.

During the EBA fieldwork and borehole drilling in the south side of the deposit, no significant groundwater was encountered. Previous comments by MineEx on potential "artesian" flows from boreholes in this area were found to be related to ongoing drilling operations.

Table 10 summarizes the drilling program. The locations of these drill holes are shown on Figure 8.

**TABLE 10 EBA CORE HOLE AND BORE HOLE SUMMARY**

| Core Hole | Northing (m) | Easting (m) | Azimuth | Dip | Surface Elevation (m) | Total Depth (m) |
|---|---|---|---|---|---|---|
| 05SWC042 | 6944772.30 | 384660.539 | 360 | -90 | 819.64 | 56.7 |
| 05SWC043 | 6944780.92 | 384730.74 | 360 | -90 | 818.8 | 61.0 |
| 05SWC044 | 6944758.56 | 384582.51 | 360 | -90 | 824.96 | 57.0 |
| 05SWC045 | 6944772.10 | 384515.45 | 360 | -90 | 823.19 | 70.4 |
| 05SWC045B | 6944772.10 | 384515.45 | 360 | -90 | 823.19 | 30.1 |
| 05SWC046 | 6945228 | 384592 | 360 | -63 | 856.2 | 171.3 |
| 05SWC047 | 6945075 | 384510 | 270 | -60 | 846.8 | 180 |
| 05SWC048 | 6945415 | 384582 | 180 | -50 | 914.0 | 271.3 |
| 05SWC049 | 6945274 | 387780 | 220 | -50 | 856.0 | 182.3 |

Rock quality characterization for logging is based on standard industry criteria and is presented in Appendix C. All data was compiled and used in the RMR model.

Summary logs of each core hole have been prepared by EBA and are included Appendix D along with core photos and orientation calculations using DIPS ©, GeoCalculator © and GEOrient © software.

### 4.2.1 Conclusions from the Field Investigations

Adequate data to a feasibility level has been collected from both the surface and north side of the proposed open pit by EBA and supplemented with significant previous qualified data collected by Golder, SRK and MintoEx.

Field characteristics noted during onsite review and core logging suggest that there is a direct correlation between rock strength and intensity of weathering with placement of paleo-colluvium/fluvium over weathered materials (Figures 9 and 11). In general, the Minto deposit consists of varying degrees of weathering with respect to current surface. Table 11 outlines the noted depth range in overburden and weathering.

| TABLE 11 SUMMARY OF DEPTH RANGE IN OVERBURDEN & WEATHERING | | |
|---|---|---|
| **Location** | **Depth (m)** | **Characteristics** |
| North side | 0 to 5 | Overburden |
| | 0 to 50 | Weathered granodiorite (Gd) |
| | 50 to 75 | Slightly Weathered Gd |
| | >75 | Fresh Granodiorite |
| South side | 20 to 100 | Overburden |
| | 40 to 50 | Weathered Granodiorite |
| | 50 to 75 | Slightly Weathered Gd |
| | > 75 | Fresh Granodiorite |

Field discontinuity data suggests a significant joint set parallel to subparallel to the DEF fault (280/60N). These joints are found to be more prominent proximal to the DEF Fault and in the central part of the deposit were a fracture zone and possible fault exist. Core drilling has confirmed the presences of these fault and fracture zones.

A site review of overburden exposed on the south and central portions of the deposit suggests a significant volume of unconsolidated partially frozen material. This material consists of silt to clay with intermitten rounded cobbles. Experience and local site conditions suggest this material has a maximum angle of repose of approximately 30°. Melting and water flow is anticipated during mining from this unconsolidated material.

All 2005 core drilling data was electronically compiled into Excel spreadsheets for convenient review and use in analysis of field data. This review and analysis are presented in the following sections.

Two thermistor access tubes were installed during the field program and became frozen. Stream heating with subsequent defrosting has been completed on one hole. A thermistor cable has been installed and readings are currently underway pending stabilization. Further data collection is required.

## 4.3 EBA POINT LOAD TESTING

Selective point load testing was completed on representative materials and used to calibrate hardness core logging criteria in preparation for RMR estimation. The following point load tests were completed, as presented in Table 12 below.

| TABLE 12 POINT LOAD TESTING OF EBA CORE | | | | | |
|---|---|---|---|---|---|
| **Drill Hole No.** | **Depth (m)** | **MPa** | **Field Hardness** | **RMR** | **Rock Type** |
| 05SWC048 | 20 | 49.5 | 2 | 41 | Weathered Granodiorite |
| 05SWC049 | 45 | 67.2 | 2 | 45 | Weathered Granodiorite |
| 05SWC048 | 188 | 165.8 | 4 | 62 | Fresh Granodiorite |

| TABLE 12 POINT LOAD TESTING OF EBA CORE | | | | | |
|---|---|---|---|---|---|
| Drill Hole No. | Depth (m) | MPa | Field Hardness | RMR | Rock Type |
| 05SWC046 | 165 | 158.2 | 4 | 66 | Fresh Granodiorite |
| 05SWC048 | 83 | 84.0 | 3 | 50 | Slightly Weathered Granodiorite |

Extensive point load testing was completed by Minto exploration personnel and used in review with respect to RMR estimations.

## 4.4 EBA LABORATORY TESTING

Previous work has been completed on multiple samples (Section 2.0) for strength determination for representative materials. Further sampling and testing has been completed by EBA with emphasis on the northern proposed ultimate pit slope.

### 4.4.1 Uniaxial Compression Testing

EBA collected 5 representative core samples of materials located near the proposed northern ultimate pit wall and tested the samples under uniaxial compression. The results of these tests are presented in Table 13.

| TABLE 13 RESULTS OF EBA CORE – UCS TESTS | | | |
|---|---|---|---|
| Drill Hole No. | Depth (m) | Mpa | Rock Type |
| 05SWC048 | 20 | 55.2 | Weathered Granodiorite |
| 05SWC049 | 45 | 78.5 | Weathered Granodiorite |
| 05SWC048 | 188 | 149.0 | Fresh Granodiorite |
| 05SWC046 | 165 | 124.6 | Fresh Granodiorite |
| 05SWC048 | 83 | 84.4 | Slightly Weathered Granodiorite |

Test work shows an average uniaxial compressive strength of 66.8 MPa for weathered granodiorite, 84.4 MPa for slightly weathered granodiorite, and 121.8 MPa for fresh granodiorite.

These results are consistent with previous test work and confirm the rock strength of representative materials associated with the proposed northern ultimate pit wall.

## 4.5 SEISMICITY

The project area lies in a region of moderate to high seismicity. There are three major active faults in the region that have had recent active seismic activity. The most significant recorded earthquakes are from 6.2 to 8.0 (1899).

In 2002, a seismic hazard assessment for the nearby Mount Nansen Mine was completed (Appendix E). Based on this assessment, a Peak Horizontal Ground Acceleration (PGA) of 0.27g.

This seismic assessment and PGA is considered adequate for the Minto site and was used for Minto stability review and analysis of constructed slopes.

## 4.6 PERMAFROST

The Minto Project lies within a region of discontinuous permafrost. On the property, the presence of permafrost is controlled by site aspect (permafrost usually on north-facing slopes and in the bottom of valleys) and by vegetation cover (permafrost almost always beneath areas of moss cover). Areas beneath large lakes, rivers and streams show no permafrost. Permafrost is estimated to extend to depths in excess of 60 m (EBA 2005) within overburden and into the bedrock on site. In the surficial soils, the active layer typically ranges in thickness from less than one metre in organic soil to slightly more than five metres where well-drained granular materials are present. Active layer thicknesses in exposed rock locally exceeds three metres. Drilling to date has revealed stratified ground ice (NRC Classification Vs, Vr, locally up to 15% by volume, in lenses generally less than 25 mm in thickeness) in fine-grained overburden materials. Although intermittent ice-rich zones were encountered in the drilling programs conducted over the years, the permafrost in general is not considered to behave as an ice-rich material when thawed. A thermistor cable installed by EBA in February 2006 will provide future data on ground temperatures at the site.

# 5.0 STRUCTURAL DOMAINS

The basic framework for the engineering geologic model developed in this study is comprised of four structural domains over the Minto Deposit, separated by lithologic contacts and shear/fault zones. The engineering geologic model also defines basic material properties, lithology, and significant structures/fault zones. Groundwater data is currently available and was used in the assessment of domains.

This section summarizes the most important elements of the engineering geologic model using surface mapping and review of available core as defined in Section 2.0.

Figures 10 and 13 show the approximate distribution of the main rock types and domains in the proposed ultimate pit. As the pit is developed, the distribution of lithologies and rock quality will vary. Weathered granodiorite will be encountered during early stages of mining. As the pit walls push outward, more competent rock will be encountered in the northern sectors of the deposit. For all pit stages, the east and west walls will be developed in fractured granodiorite.

Thickness of the zone of surface weathering varies, but averages about 50 metres. The weathered zone has a major influence on rock type and major structures with respect to structural domains.

Structural domains are defined based on lithology, weathering and major shear/fault zone locations and prominent discontinuity orientations. Major zones form structural domain boundaries as shown in Figure 10. The domains were characterized based on rock type (broken zone, gouge zone, etc.), and overall orientation, see Table 15.

A review of all drill logs suggests two main areas of faulting/shearing:

- DEF Fault and Zone is typically a broken zone containing intermittent near-vertical gouge intervals up to 5 metres wide. The average width of the shear zone is approximately 10m.
- Crosscutting east-west faults in the centre of the deposit are typically fractured rock with intermittent gouge zones up to 1 metre wide. The fractured zone is approximately 100 metres wide.

The classification based on fault type is significant in that there are different engineering implications associated with each fault type. As such, different operating procedures could be developed for each major fault zones based on its distinctive characteristics. To the extent that fault type varies within individual fault zones, the development of a suite of operating procedures for a particular fault zone would be more complicated. Operational requirements for mining in the fault zones should be evaluated during the early stages of mining, when blasting, excavation, and depressurization methods can be refined on the basis of experience and fault zone characteristics observed in the field.

"Design discontinuity sets" were defined for slope design based on surface mapping and oriented core data (Appendix F). Conclusions show that the fractures/joints might be expected to comprise of systematic sets of persistent discontinuous fractures but in many cases show rough to very rough surfaces. Therefore, they should be considered to have no significant impact on slope angles.

The drilling data also provides the basis for the following preliminary conclusions regarding rock structure:

- Structural orientations observed at surface do not change significantly with depth.
- Discontinuous fracturing in lithologies generally increases with increased presence of faulting and foliation.
- Structural orientations observed for foliation associated with mineralization generally corresponds with structural orientations observed for jointing.

Oriented core data was collected during the MintoEx and EBA drilling programs. A review of the Gemcom 3D model with respect to drill holes and the proposed ultimate pit slopes was completed to select key core holes for evaluation. Holes selected are presented in Table 14.

| TABLE 14 SELECTIVE CORE HOLES FOR ORIENTATIONS | |
|---|---|
| **Hole Number** | **Location Proximal to Ultimate Slopes** |
| 05SWC046 | North Wall |
| 05SWC049 | Northeast Wall |
| 05SWC047 | West Wall |
| 05SWC041 | West Wall |
| 05SWC010 | West Wall |
| 05SWC038 | West Wall |
| 05SWC022 | East Wall |
| 05SWC033 | East Wall |
| 05SWC036 | South Wall under Overburden |
| 05SWC028 | South Wall under Overburden |

Results of orientation analyses are located in Appendix F with Great Circle analysis graphically presented on Figure 12.

Generally, orientations of discontinuities are consistent with 3 primary joint sets;

- DEF Fault Zone with orientations of 50 to 70 for dip and 350 to 15 for dip direction.
- Central Fracture Zone with orientations of 60 to 90 for dip and 340 to 20 for dip direction.
- Ore Zone foliation with orientations of 0 to 20 for dip and 360 to 180 for dip direction.

Secondary joints sets appear as perpendicular to sub-perpendicular from primary joints. Discontinuity data was used to set up structural domains for review of orientations with respect to ultimate pit slopes and rock mass rating.

Based on discontinuity mapping and logging, domain boundaries have been selected as follows:

| TABLE 15 STRUCTURAL DOMAINS | | | | |
|---|---|---|---|---|
| **Domain** | **Location** | **Structure** | **Rock Type** | **Fault Type** |
| 1 | Lower Deposit | Jointing and Foliation | Granodiorite, Mineralized Zone | DEF Fault gouge in high hardness, strong rock |
| 2 | Near Surface, Fault Zones | Shear, Jointing and Foliation | Granodiorite | DEF Fault, Shears zones |
| 3 | Upper Deposit | Jointing and Foliation | Granodiorite | Gouge zones in strong rock |
| 4 | Surface – South Side | NA | Paleo-colluvium/fluvial materials | NA |

# 6.0 ROCK QUALITY

## 6.1 FIELD ESTIMATES OF INTACT ROCK STRENGTH

The primary field data collected on intact rock strength is core hardness using specific criteria (Appendix C). Representative samples have been collected and laboratory test work completed (Section 4.0) to determine intact rock strength with correlation to field results.

## 6.2 ROCK QUALITY AND ROCK MASS RATING

Rock mass classification has been determined for the project based on data collected using geotechnical core logging parameters including RQD, strength index, detailed discontinuity properties, fracture frequency, and water to develop a rating. Rock Mass Ratings (RMR) ranges from 0 to 100, with higher ratings for better quality rock and associated steeper slope angles.

## 6.3 ROCK MASS RATING MODEL

Geotechnical core data was collected by EBA for the 2005 field program and received from Sherwood (Table 16) for previous data collection. Using core hardness, RQD, fracture frequency, JCR and water content, RMR for each available core interval was completed.

After calculation of RMR numbers using an Excel spreadsheet (Appendix G), data was imported into Gemcom mining software. A 3D review of the drill holes was completed to verify RMR distribution and determine which core holes were most favorable for geotechnical review proximal to the conceptual interim and ultimate pit slopes.

**TABLE 16 SUMMARY OF DRILLING USED FOR RMR MODEL**

| Drill Hole Series | Number of Holes | Drilled Metres |
|---|---|---|
| 05SWC | 36 | 5,368.5 |
| 93 | 8 | 959.8 |
| Total | 44 | 6,328.3 |

Previous data collection from drilling has focused on exploration with minor engineering aspects of core logging for drill holes other than the 05SWC and 93 series. SRK completed engineering logging of the 93 series core holes with MintoEx and EBA completing logging on the 05SWC series.

Statistical analysis was completed on the RMR database. Information for the ungrouped population of samples greater than 0.01 RMR showed:

- Total number of samples: 2223
- Mean RMR: 45.47

- Variance: 201
- Coefficient of Variance: 0.31
- Standard deviation: 14.17

The overall average RMR for the model is 45. This is consistent with the RMR average ranges that are noted in the calculation spreadsheets. The low CoV suggests the datasets used for RMR estimation are adequate.

For RMR estimation statistical and geostatistical analysis were applied to the data, 3D geology shapes (solids) using structural domain constraints with interpolation of composites were used to create the RMR block model. The methodology for estimation is based on the use of Gemcom mining software, which is used to create 3D block models.

The following assumptions were used for estimation:

- Raw data was composited to statistical relevant lengths of 1 metre or less.
- Block dimensions of 5m x 5m x 5m were used based on geologic constraints and potential future mining method.
- ID5 interpolation method was used to create the RMR model.
- Interpolation parameters used for RMR are presented in Table 17.

**TABLE 17 MINTO RMR INTERPOLATION PARAMETERS**

| Element | Orientation | Radius (metres) |
|---|---|---|
| Spherical Search | - | - |
| Principal axis (X) | No rotation | 250 |
| Principal axis (Y) | No rotation | 250 |
| Principal axis (Z) | No rotation | 100 |
| | **Unit** | |
| Nugget Effect | NA | - |
| Min. Samples | 2 | - |
| Max. Samples | 10 | - |
| Top Cut Level | NA | - |

A RMR number has been tagged to each block in the model and each block represents a RMR range with associated domain number. From this RMR range, and review of other geotechnical constraints (test work, discontinuities), an overall slope angle for each block has been determined and presented in Table 18.

| TABLE 18 OVERALL SLOPE ANGLE FOR EACH DOMAIN | | | | |
|---|---|---|---|---|
| RMR Range | Rock Type | Block Colour Code | Overall Slope Angle | Structural Domain |
| 1 to 25 | Overburden | Blue | 30 | 4 |
| 25 to 35 | Weathered Gd/DEF Fault Zone | Green | 37 | 2 |
| 35 to 50 | Granodiorite | Brown | 45 | 3 |
| 50 to 100 | Silica-rich Gd/ore zone | Red/Magenta | 50 | 1 |

Designation applies to both the ultimate pit walls and interim walls. Figures 12 represent typical cross-section through the RMR model.

Overburden and DEF Fault zone geology shapes where used in the model as pre-determined structural domains with no geostatistical influence during interpolation of RMR numbers.

A review of the model and slopes with respect to mine design/planning is required for practical optimization of slopes.

# 7.0 SLOPE DESIGN

## 7.1 GENERAL

The basic progression involved in developing slope designs for the Minto pit included formulation of bench design configurations and an evaluation of overall stability. Bench designs were based on geologic structure, rock quality, operational constraints, and assumed surface water control requirements. Overall stability analyses focused on structurally-controlled and rock mass modes of failure.

The structural domain model (RMR-DOMIAN) for the property is the basis for the slope designs.

## 7.2 DESIGN CRITERIA

### Summary of Assumptions

Bench designs in general are based on the following assumptions:

- Operating bench height of 3 metres.
- Bench face angles (BFA) are limited by structural control in competent rock. Where structural control is evident, joint sets are considered to have influence on stability for slopes oriented within +/- 20° of the mean dip direction.
- Where there is no apparent structural control, the maximum BFA has been limited to 65°. This is considered to be a reasonable angle for stable excavation in competent rock

under typical mining conditions provided that controlled blasting is employed. For highly fractured rock and fault zones, a maximum BFA of 47° has been assumed where structural control is not evident.

- Fracture sets occurring along major fault orientation are expected to include joints, veins, shears, and faults. These could be expected to be continuous on a bench or multi-bench scale, and therefore could cause slope failures.
- Fractures in sets with orientations that do not coincide with major faults should be somewhat less persistent, with continuity limited to one or two benches.
- Catch benches are required every 24 metres of wall height with 8 metre widths (in accordance with Yukon Regulations).
- A drainage bench will be required every 48 metres of wall height to allow excavation of in-pit surface water control ditches with the same with as the catch bench.
- The net affect of the domain conditions would result in overall pit slopes varying from between 30 to 50°.

## 7.3 STABILITY ANALYSIS

The current geological interpretation and structural database indicate control of overall stability based on high rock strength and favourably oriented fault/shear zones. Data on rock mass character is statistically significant and was used to estimate RMR for the Minto deposit (Section 6.0).

The ultimate pit configuration represents the highest and steepest walls, so it should represent the most critical slope stability condition. Structural and RMR profiles were developed for the east, west, south, and north slopes (Figure 13). The profiles incorporate discontinuities for the rocks in each domain and RMR in the vicinity of the interim and ultimate pit walls.

Groundwater conditions used in analysis are considered "damp". With efficient dewatering, this component of the analysis can significantly affect slope angles in the future.

Experience suggests that minimum Factors of Safety against failure for open pit slopes should be on the order of 1.1 to 1.2 during operations of typical slope heights provided the input data and parameters can be well defined and designed.

Analysis using XSTABL© is limited to a review of potential wedge-type failures in the north and west sections of the ultimate pit based on collection of surface and core data. Analysis indicates that the proposed wall angles outline below will provide adequate Factors of Safety.

### East Wall (Domains 2 and 3)

The east wall will be developed mainly in weathered and fractured granodiorite with crosscutting near vertical to southeast dipping joint sets in Domain 2 and 3. The wall will

extend from an elevation of 870m to 710m for an overall height of approximately 160 metres.

The overall slope angle for this sector of the ultimate pit is from 37 to 45°. Based on using this overall slope, a minimum Factor of Safety should be maintained with favorable groundwater conditions and subsequent dewatering.

#### West Wall (Domains 2 and 3)

The west wall will be developed mainly in weathered and fractured granodiorite with crosscutting near vertical to southeast dipping joint sets in Domain 2 and 3. The wall will extend from an elevation of 835m to 710m for an overall height of approximately 125 metres.

The overall slope angle for this sector of the ultimate pit is from 37 to 45°. Based on using this overall slope, a minimum Factor of Safety should be maintained with favorable groundwater conditions and subsequent dewatering.

#### North Wall (Domains 1 and 3)

The north walls will be developed mainly in slightly weathered to fresh granodiorite (Domain 1 and 3). High angle fracturing associated with the DEF Fault is anticipated. The walls extend from crest elevation 970 metres to pit bottom at 710 metres, for an overall height of 260 metres.

Based on previous experience with high Hardness, high RMR and low or favorable fracture frequency materials, the overall slope angle for the ultimate pit is currently suggested at 50°.

#### South Wall (Domain 4)

The south wall will be developed mainly in overburden (Domain 4) underlain by slightly weathered to fresh granodiorite (Domain 1 and 3). The walls extend from crest elevation 850 metres to pit bottom at 715 metres, for an overall height of 135 metres.

Based on previous experience with unconsolidated materials (overburden), test work, discontinuous permafrost, and low angles of repose, the overall slope angle for the ultimate pit is currently suggested at 30°.

### 7.3.1 Discussion

The following conclusions can be drawn from the stability analyses:

- Shearing in the east and west walls will control the pit slope angles (Domains 2 and 3).
- High RMR values and low or favourable fracture frequencies will control pit slope angles in the north wall.
- There is potential for positively changing all wall slopes with efficient blasting and dewatering.

## 7.4 SLOPE CONFIGURATIONS

### 7.4.1 Ultimate Pit Slopes

Current data indicate structural control of overall stability is present. Adequate Factors of Safety are indicated with regard to potential wedge-type failures along continuous joint planes within the expected range of slope heights. Recommended slope configurations are summarized below in Table 19 and in Figure 13.

The 30° overall slope for overburden is both a strengths and regulatory requirement. Testwork shows this rock type (clayey silt) to have a phi of 30.8 to 31.3°. The maximum angle of repose for unconsolidated material similar to this clay is estimated at approximately 30°. Yukon regulatory guidelines say that a slope in unconsolidated material under these conditions (open pit mining) can be cut only up to its angle of repose.

**TABLE 19 MINTO ULTIMATE PIT SLOPE CONFIGURATIONS**

| Structural Domain | Wall Azimuth | Bench Face Angle | Operating Bench Height, m | Bench Width every 24 m | Operating Inter Ramp Angle | Overall Slope |
|---|---|---|---|---|---|---|
| 1 | Various | 65° | 3 | 8 | 51° | 50° |
| 2 | 30/330 | 47° | 3 | 8 | 38° | 37° |
| 3 | Various | 58° | 3 | 8 | 46° | 45° |
| 4 | 30/330 | 32° | NA | NA | 32° | 30° |

Notes:

1. Vertical separation for operating benches is 24 metres.
2. Bench width is 8 metres; designate a drainage bench every 48 metres vertically and/or along pit ramps.
3. Domain 4 slopes may fail under melting conditions and require a shallower slope. Maintaining safety benches in this area may not be possible. Dewatering in this area will be critical to stability.

### 7.4.2 Interim Pit Slopes

Phase I and Phase II interim slopes are proposed for mine development. Slope configurations are based on the RMR model and domain designation.

#### 7.4.2.1 Phase I

Phase I proposed pit is based on a 2 year mine life. Overall slope angles within this pit vary from 30 to 50°, which is similar to the ultimate pit slopes. The use of the RMR – Domain model is recommended for determining interim slope angles. Phase II proposed design was not available for review and comment.

## 7.5 DEWATERING

Surface and groundwater volumes are considered to be minimal overall based on previous test work. Season runoff is considered to be significant but manageable with proper use of external diversion ditching designed to divert runoff away from the pit slopes.

Internal drainage within the pit will be important to help reduce potential pit slope failure. Use of drainage benches using designed 8m wide catch benches, ramp ditches and sumps are recommended.

## 7.6 EXCAVATION TECHNIQUES

The most effective operational approach to securing optimum pit slopes is the use of proper blasting techniques during mining. During Phase I mining multiple tests for proper blast hole spacing, stemming and powder use should be completed with examination of interim pit slopes.

Excavation of the overburden by ripping is recommended. Clean up of interim and ultimate pit slope should consist of grooming using an excavator.

# 8.0 RECOMMENDATIONS

Integration of the 2006 drill program with geotechnical logging is recommended to update the RMR model and help further optimize the pit slopes.

During operations, aggressive test slopes can be tested to help optimize maximum slope angles for all mining phases. Recommendations for aggressive slope angles are beyond the scope of this feasibility.

The follow are recommended (not limited) to help ensure a safe operating area while mining interim and ultimate pit slopes:

1. Daily monitoring of crest and toes of slopes for potential movement. If visual or audio movement is noted, immediately vacate area for inspection. Use interim monitoring points/survey for any wall higher than 24m or if slope movement is apparent.
2. Use berms near access roads to prevent rock falls.
3. For Domain 4 (south wall unconsolidated materials) mine and groom slopes with an excavator with non-use of catch benches. Construct a receding berm against all access roads to prevent rock falls. Monitor moisture content in materials as wall progresses.
4. Use best management practices for dewatering slopes including; interim crest ditching, in-pit ditching and sumps with pumps, proper grading of rampage, if necessary use of horizontal drains.
5. Use pre-split methodology for blasting in sensitive areas. Test blast hole spacing and powder factors.

6. A regular independent inspection of interim test walls by a qualified person.

Future drilling with subsequent geotechnical logging should be incorporated into the geotechnical database. A review and update of new data on the RMR model is recommended.

## 9.0 CLOSURE

This report, **Minto Geotechnical (Open Pit) Feasibility Study**, has been prepared for the exclusive use of Sherwood Mining and their authorized agents. Use of this report is subject to the attached General Conditions in Appendix H.

EBA trusts this report satisfies your present requirements. Should you have any questions or comments, please contact our office at your convenience.

Respectfully submitted,
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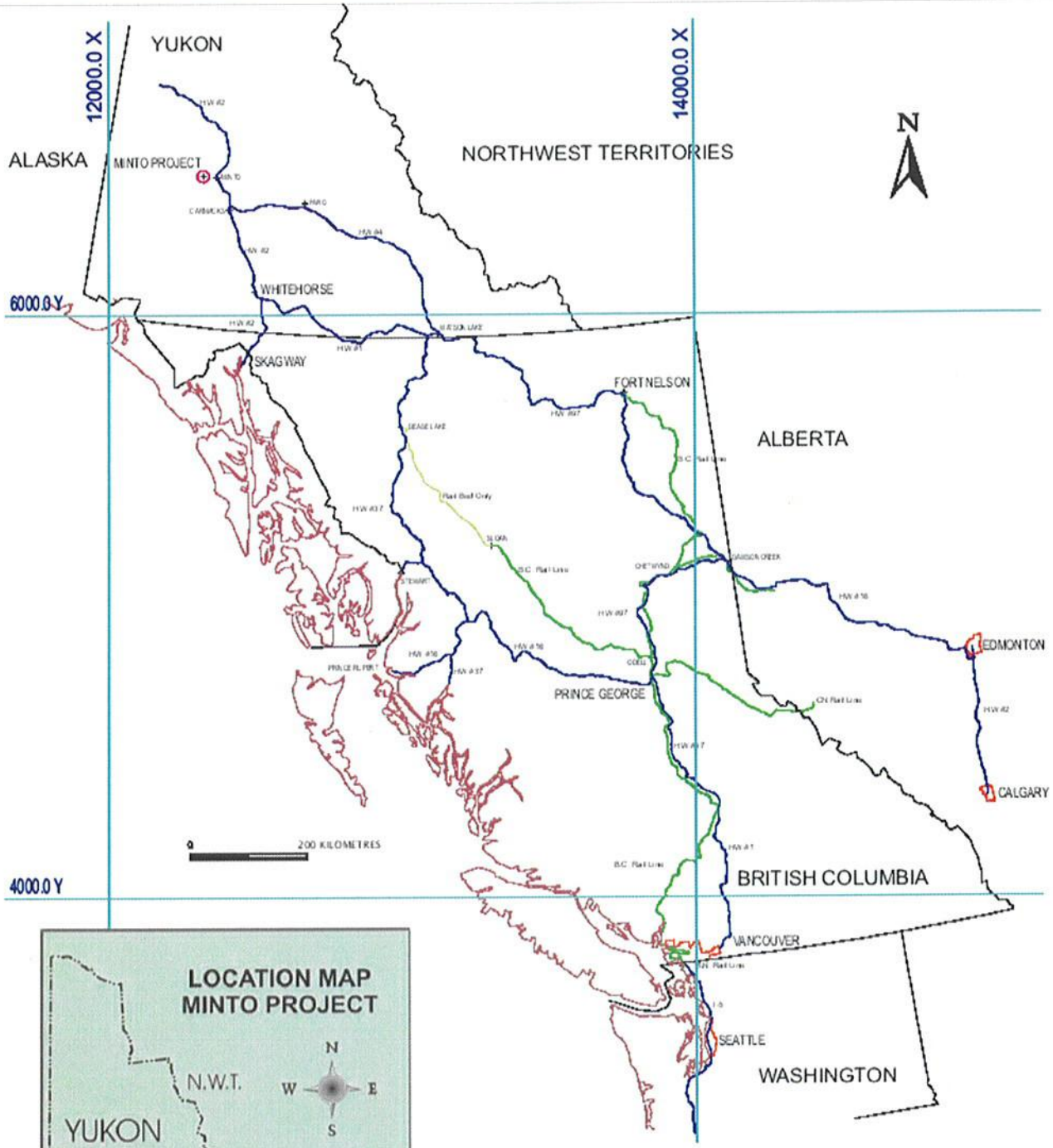
# FIGURES



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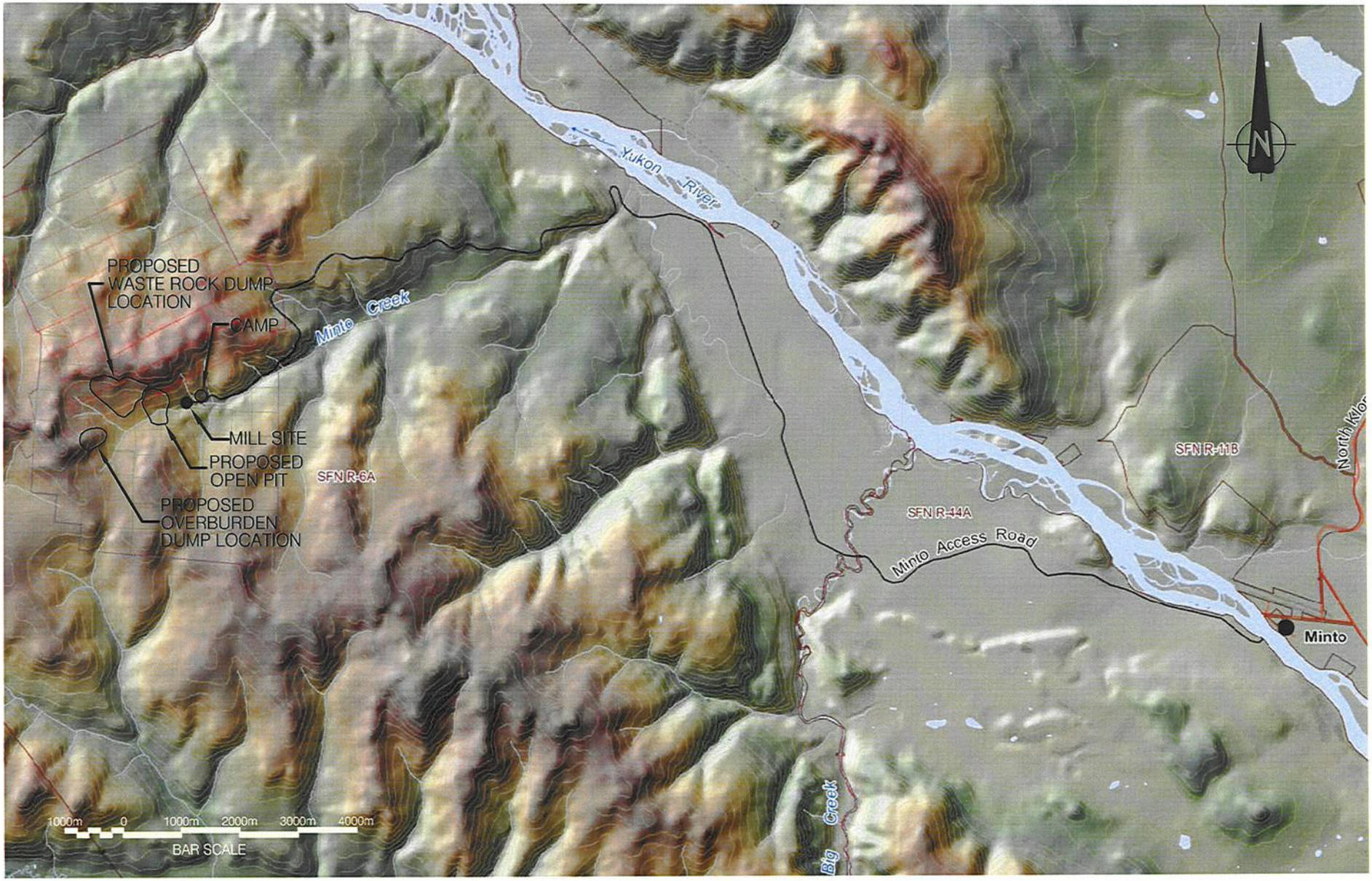
| EBA Engineering Consultants Ltd. | CLIENT: SHERWOOD MINING CORPORATION | | PROJECT: MINTO PROJECT, YUKON | |
| DWN. CLS / CHKD. EF | | | TITLE: LOCATION MAP | |
| EBA JOB NO. 1200173 | FILE: 1200173D01b.cdr | REVISION NO. 1 | DATE: March 2006 | Figure 1 |

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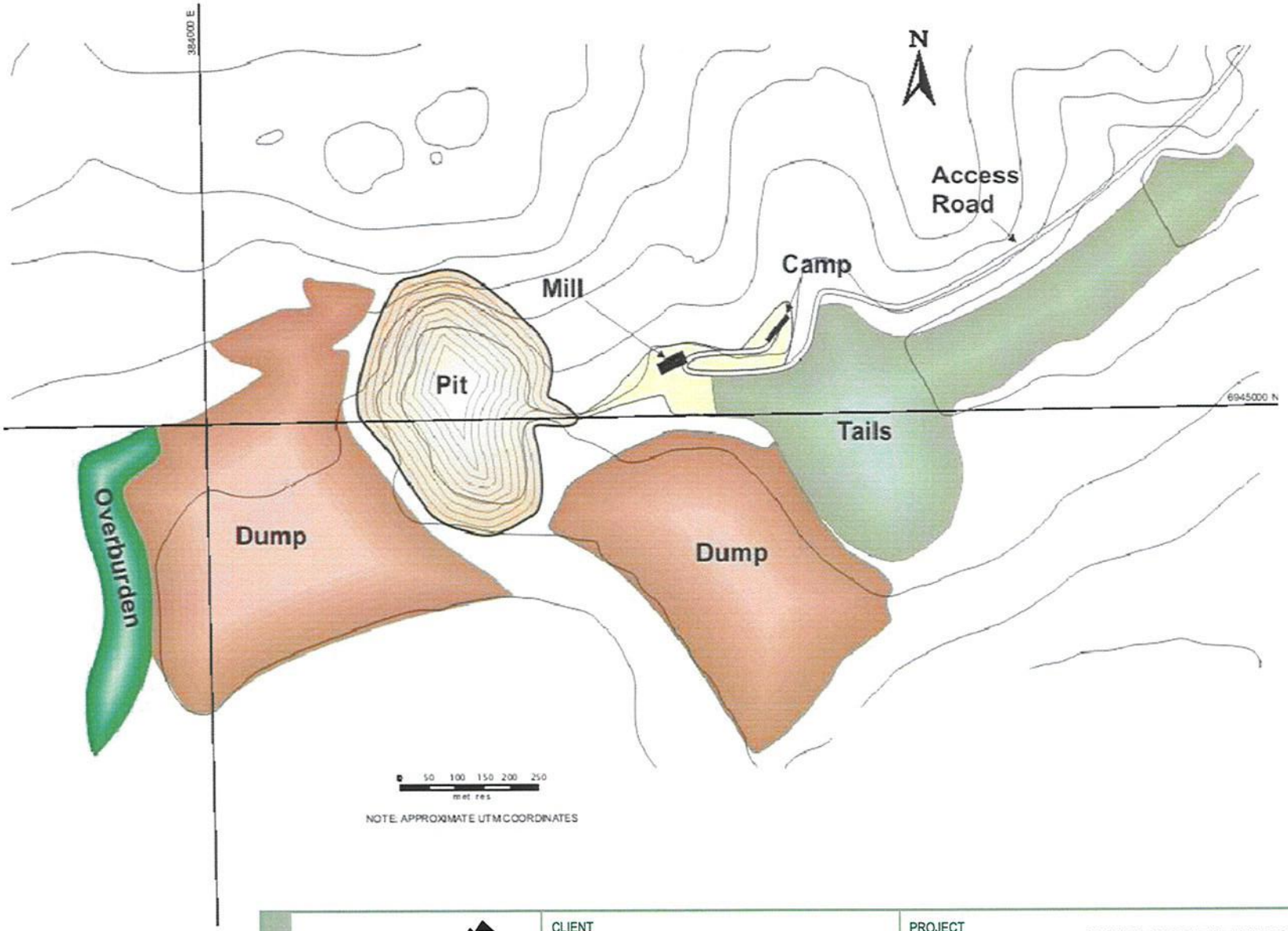
| EBA JOB NO. 1200173 | | FILE: 1200173D02a.dwg | REVISION NO.: 1 | DATE: March 2006 | Figure 2 |




Credit: ASARCO Minto Explorations Ltd.

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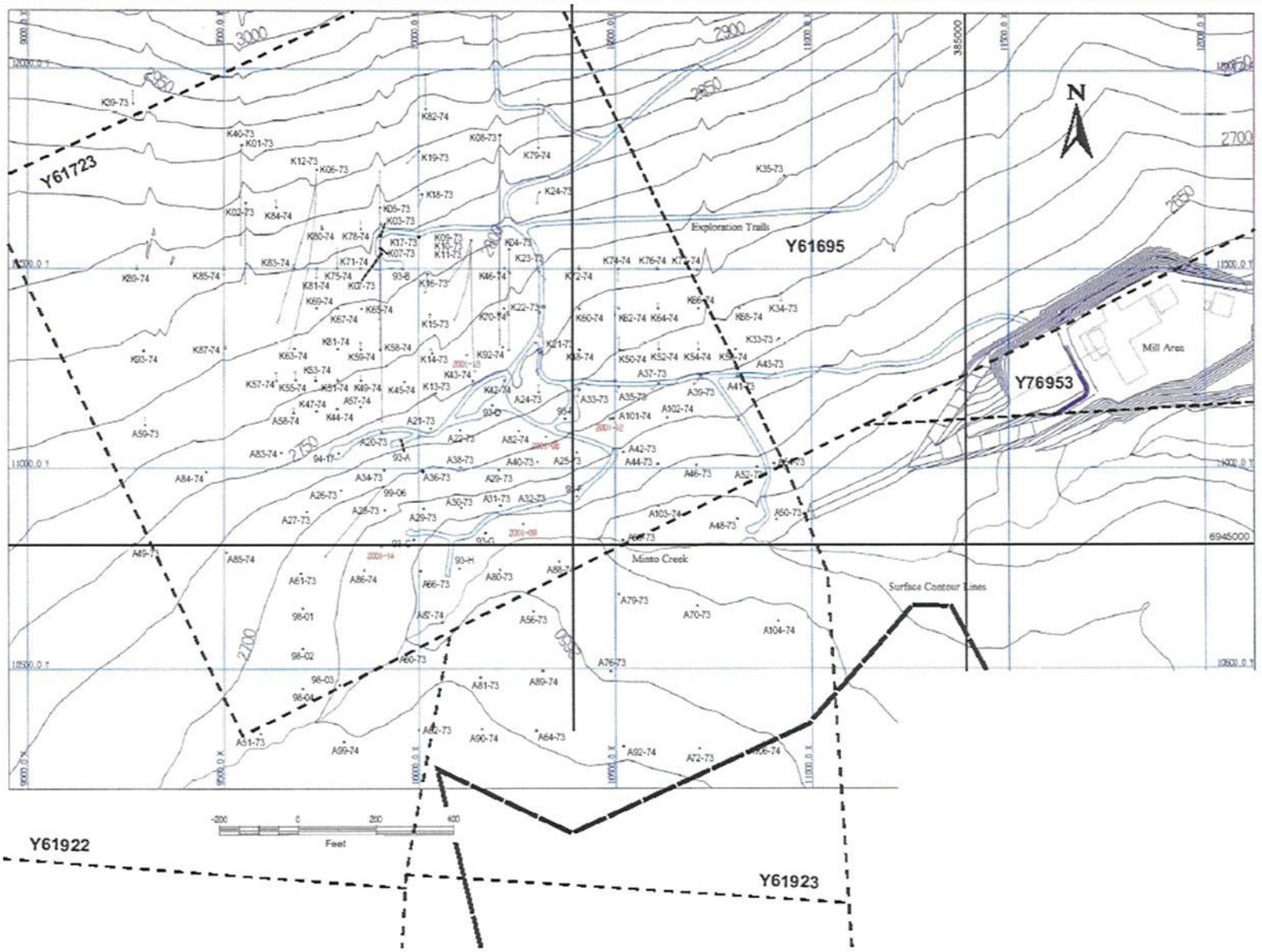
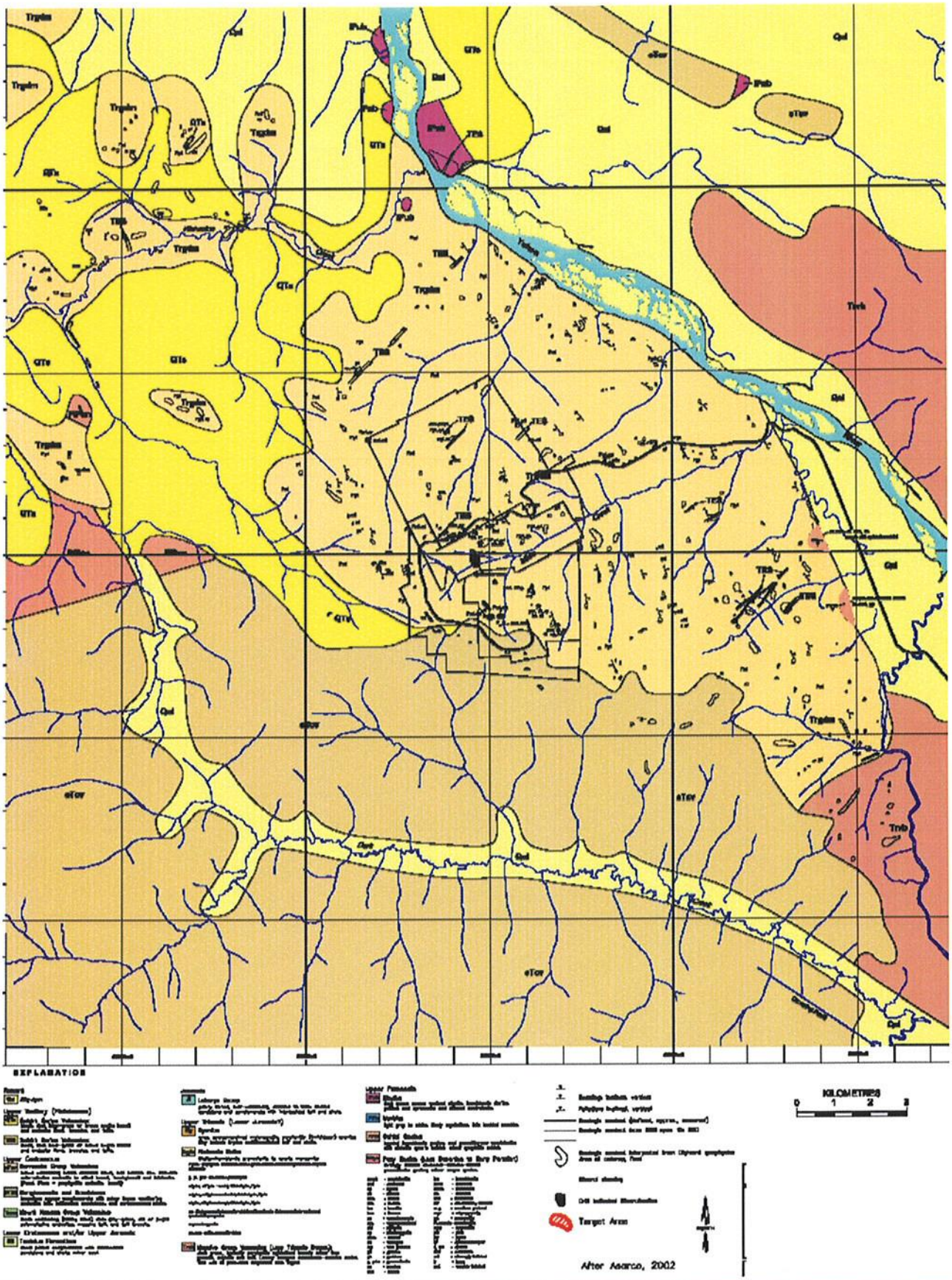
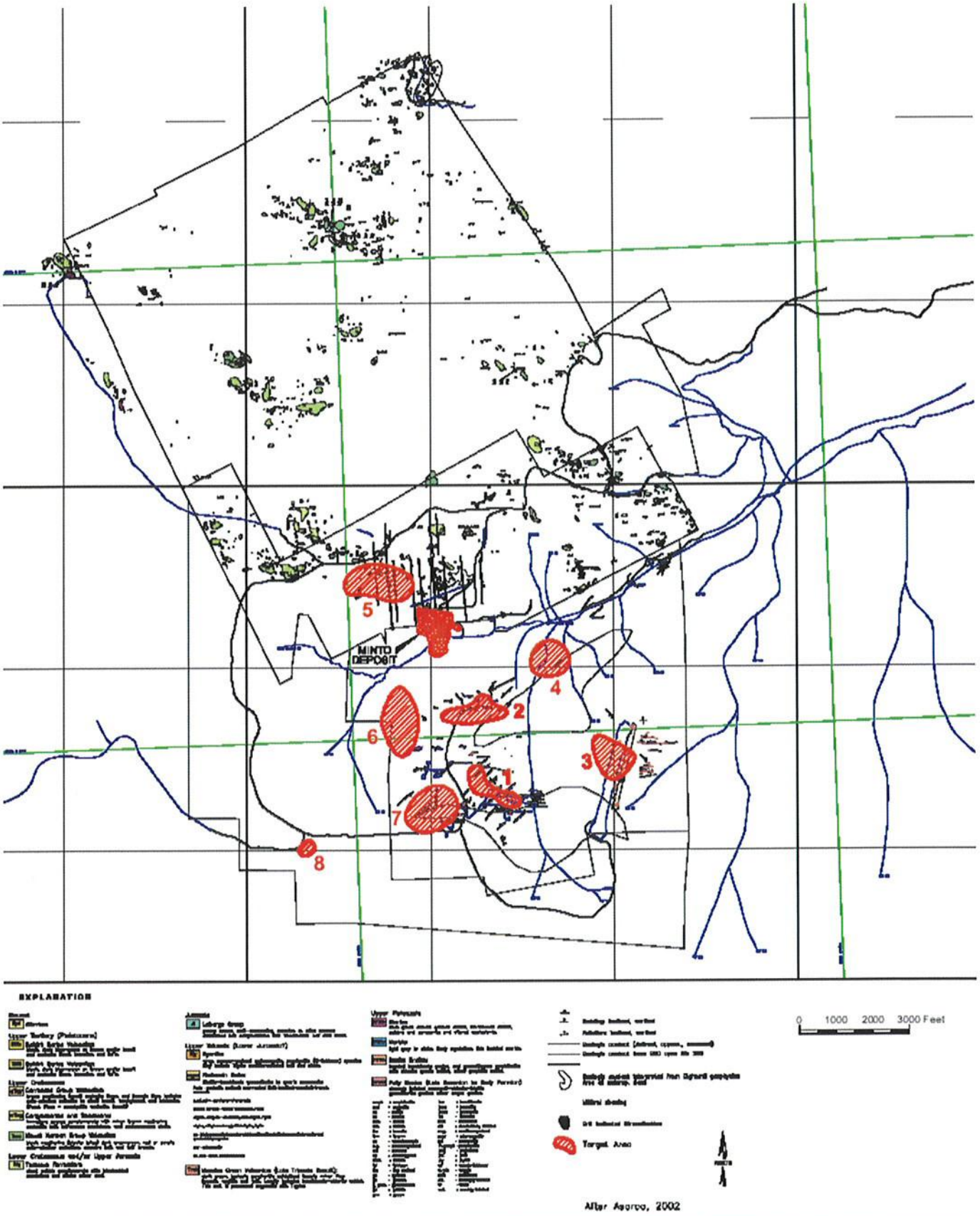
|---|---|---|---|---|---|
| EBA Engineering Consultants Ltd. | | CLIENT: SHERWOOD MINING CORPORATION | | PROJECT: MINTO PROJECT, YUKON | |
| DWN. CLS | CHKD. EF | | | TITLE: GENERAL FACILITY LAYOUT MAP | |
| EBA JOB NO. 1200173 | | FILE: 1200173D01b.cdr | REVISION NO. 1 | DATE: March 2006 | **Figure 3** |



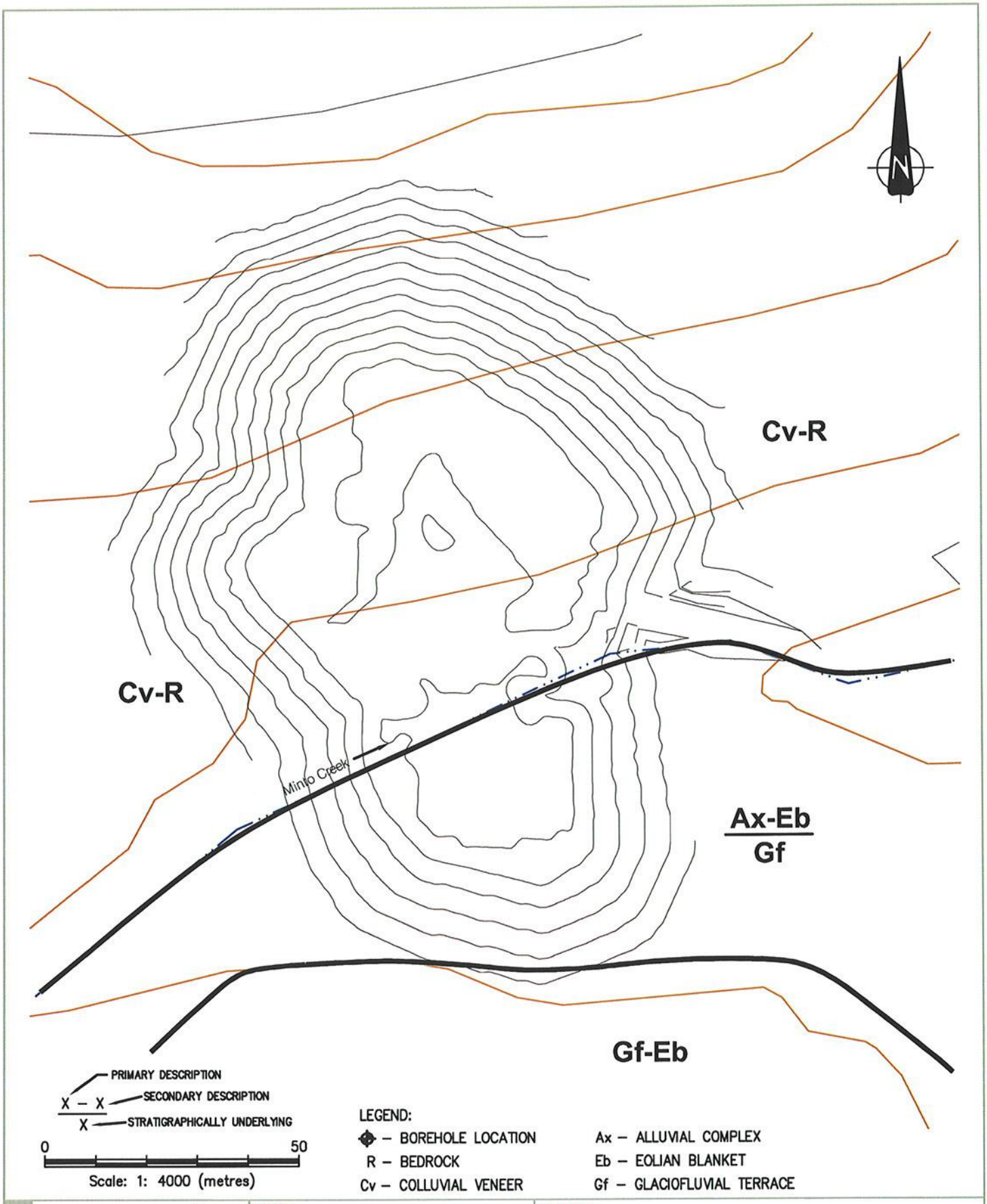

| | | | | | |
|---|---|---|---|---|---|
| EBA Engineering Consultants Ltd. | CLIENT: SHERWOOD MINING CORPORATION | | | PROJECT: MINTO PROJECT, YUKON | |
| DWN. CLS / CHKD. EF | | | | TITLE: PREVIOUS DRILL HOLE LOCATION MAP | |
| EBA JOB NO. 1200173 | FILE: 1200173D01b.cdr | REVISION NO. 1 | | DATE: March 2006 | **Figure 4** |



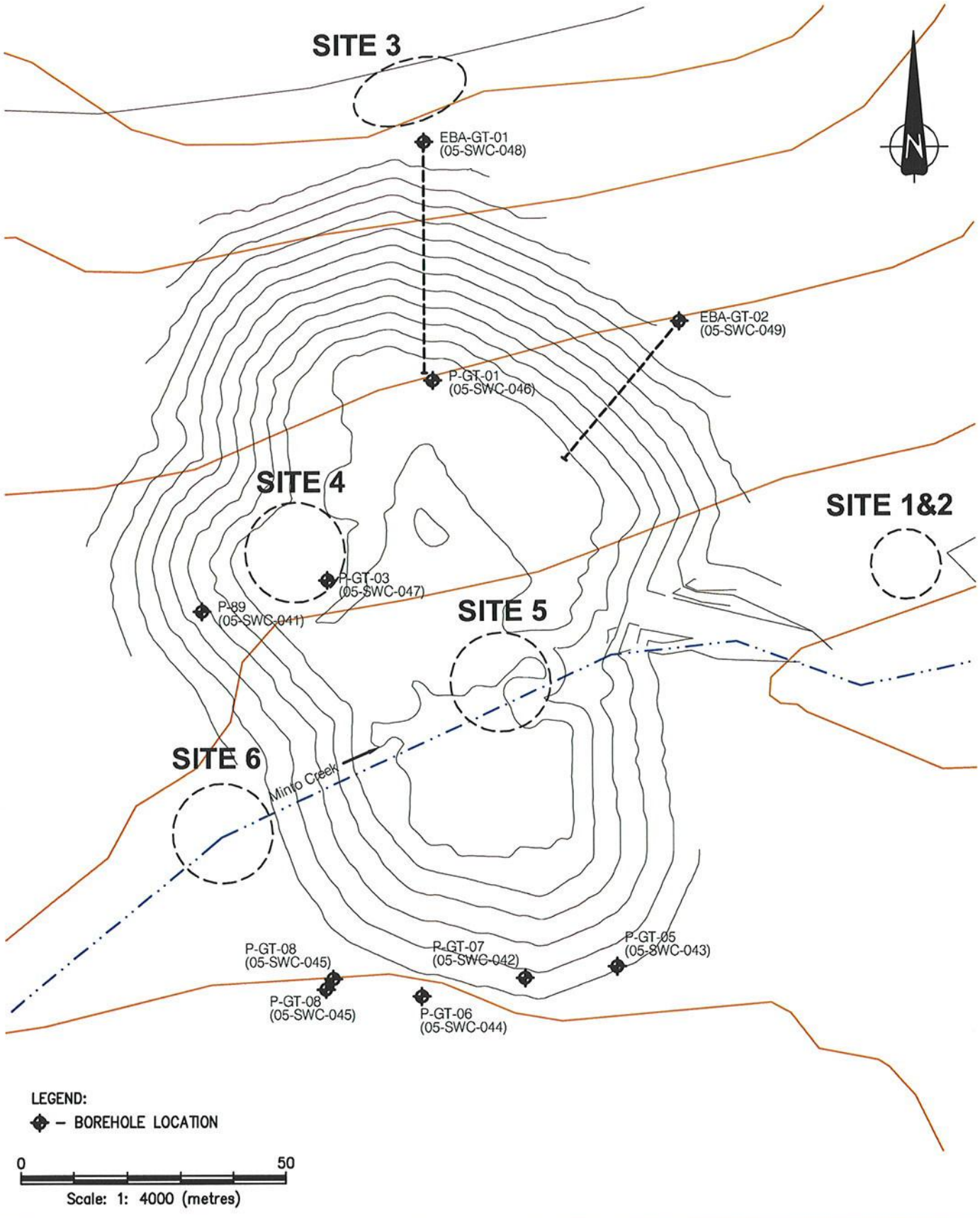

| | | | | |
|---|---|---|---|---|
| EBA Engineering Consultants Ltd. | CLIENT: SHERWOOD MINING CORPORATION | | PROJECT: MINTO PROJECT, YUKON | |
| DWN. CLS / CHKD. EF | | | TITLE: REGIONAL GEOLOGY MAP | |
| EBA JOB NO. 1200173 | FILE: 1200173D01b.cdr | REVISION NO. 1 | DATE: March 2006 | **Figure 5** |



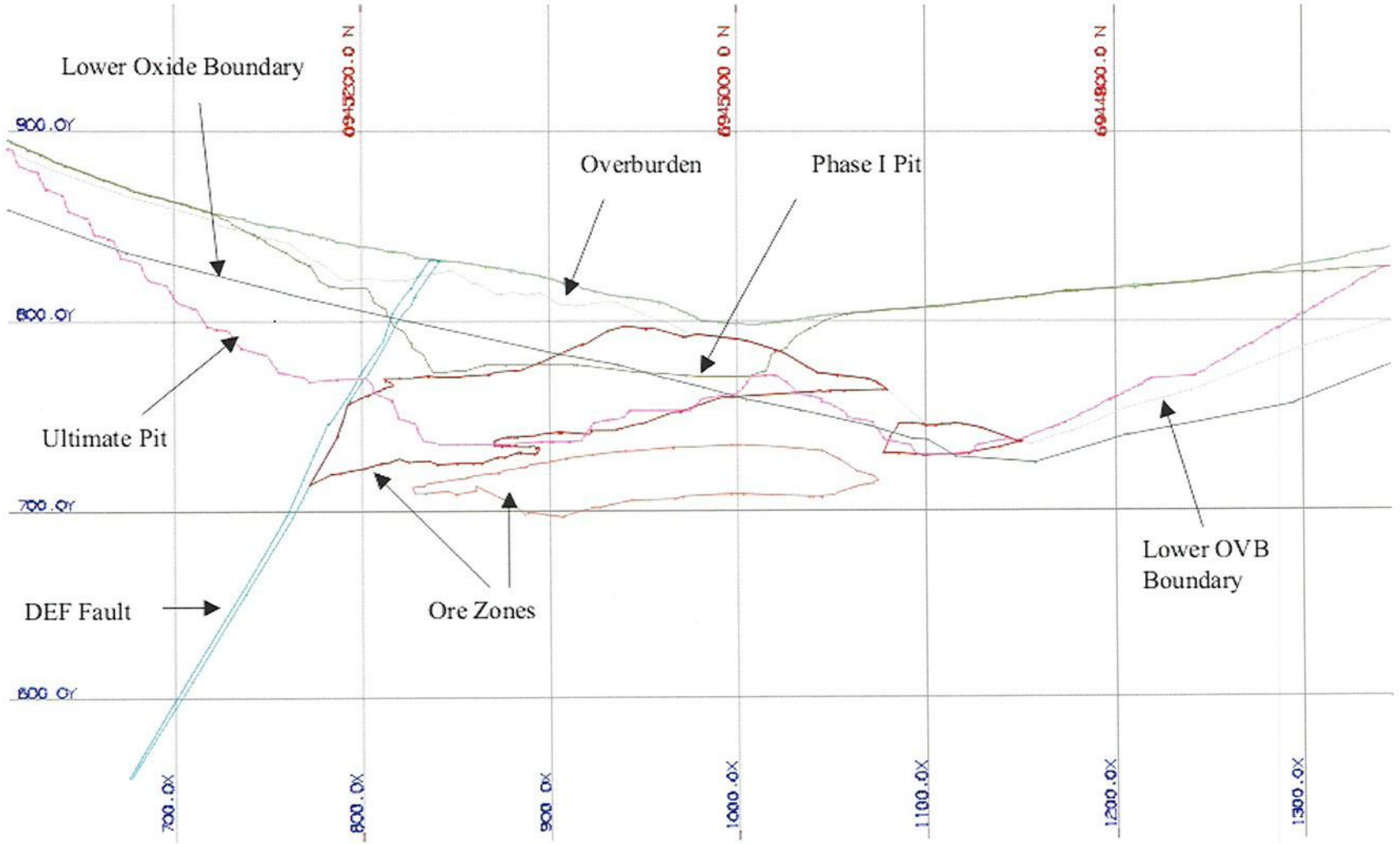

| | | | | |
|---|---|---|---|---|
| EBA Engineering Consultants Ltd. | CLIENT: SHERWOOD MINING CORPORATION | | PROJECT: MINTO PROJECT, YUKON | |
| DWN. CLS / CHKD. EF | | | TITLE: PROPERTY GEOLOGY MAP | |
| EBA JOB NO. 1200173 | FILE: 1200173D01b.cdr | REVISION NO. 1 | DATE: March 2006 | **Figure 6** |



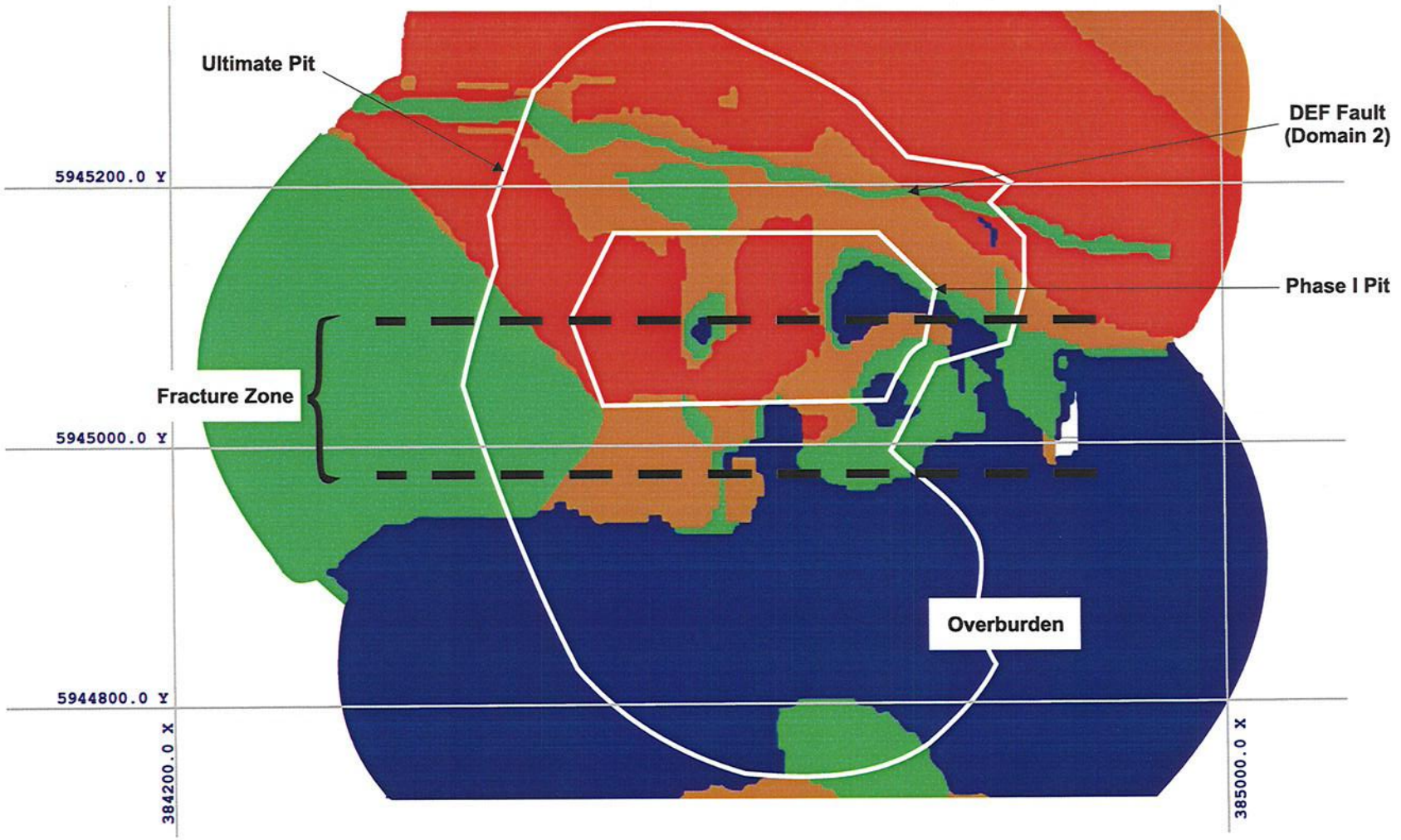

| | | | | |
|---|---|---|---|---|
| EBA Engineering Consultants Ltd. | CLIENT: SHERWOOD MINING CORPORATION | | PROJECT: MINTO PROJECT, YUKON | |
| DWN. DRG / CHKD. EF | | | TITLE: SITE PLAN SHOWING SURFICIAL GEOLOGY IN PROPOSED OPEN PIT AREA | |
| EBA JOB NO. 1200173 | FILE: 1200173D01a.dwg | REVISION NO.: 1 | DATE: March 2006 | Figure 7 |




| | | | | |
|---|---|---|---|---|
| EBA Engineering Consultants Ltd. | CLIENT: SHERWOOD MINING CORPORATION | | PROJECT: MINTO PROJECT, YUKON | |
| DWN. DRG / CHKD. EF | | | TITLE: SITE PLAN SHOWING GEOTECHNICAL BOREHOLES AND MAPPING SITES IN PROPOSED OPEN PIT AREA | |
| EBA JOB NO. 1200173 | FILE: 1200173D01a.dwg | REVISION NO.: 1 | DATE: March 2006 | Figure 8 |



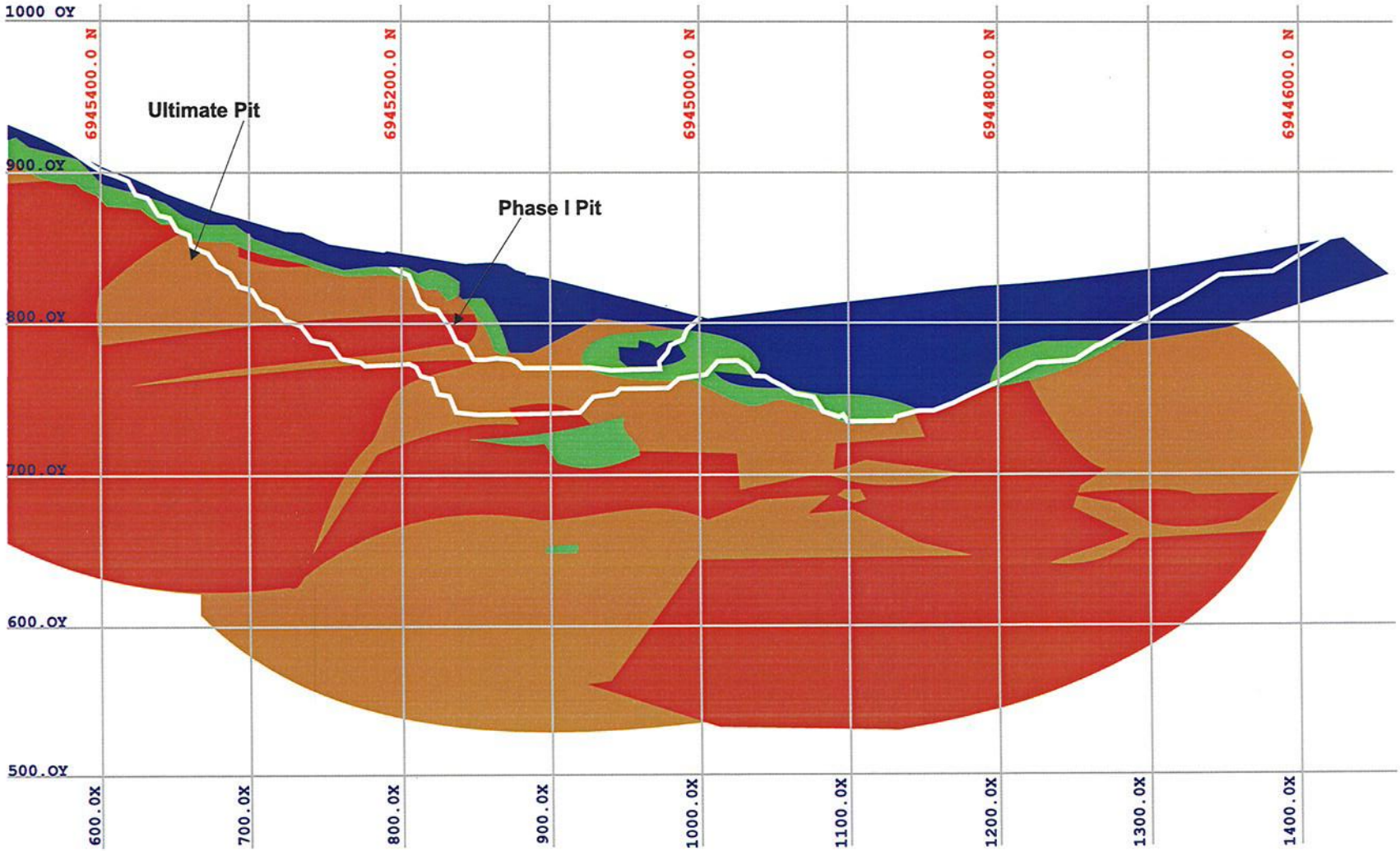

| | | | | | |
|---|---|---|---|---|---|
| EBA Engineering Consultants Ltd. | CLIENT: SHERWOOD MINING CORPORATION | | | PROJECT: MINTO PROJECT, YUKON | |
| DWN. CLS / CHKD. EF | | | | TITLE: TYPICAL WEATHERING CROSS-SECTION | |
| EBA JOB NO. 1200173 | FILE: 1200173D01b.cdr | REVISION NO. 1 | | DATE: March 2006 | **Figure 9** |




**Legend:**

- Domain 4
- Domain 2
- Domain 3
- Domain 1

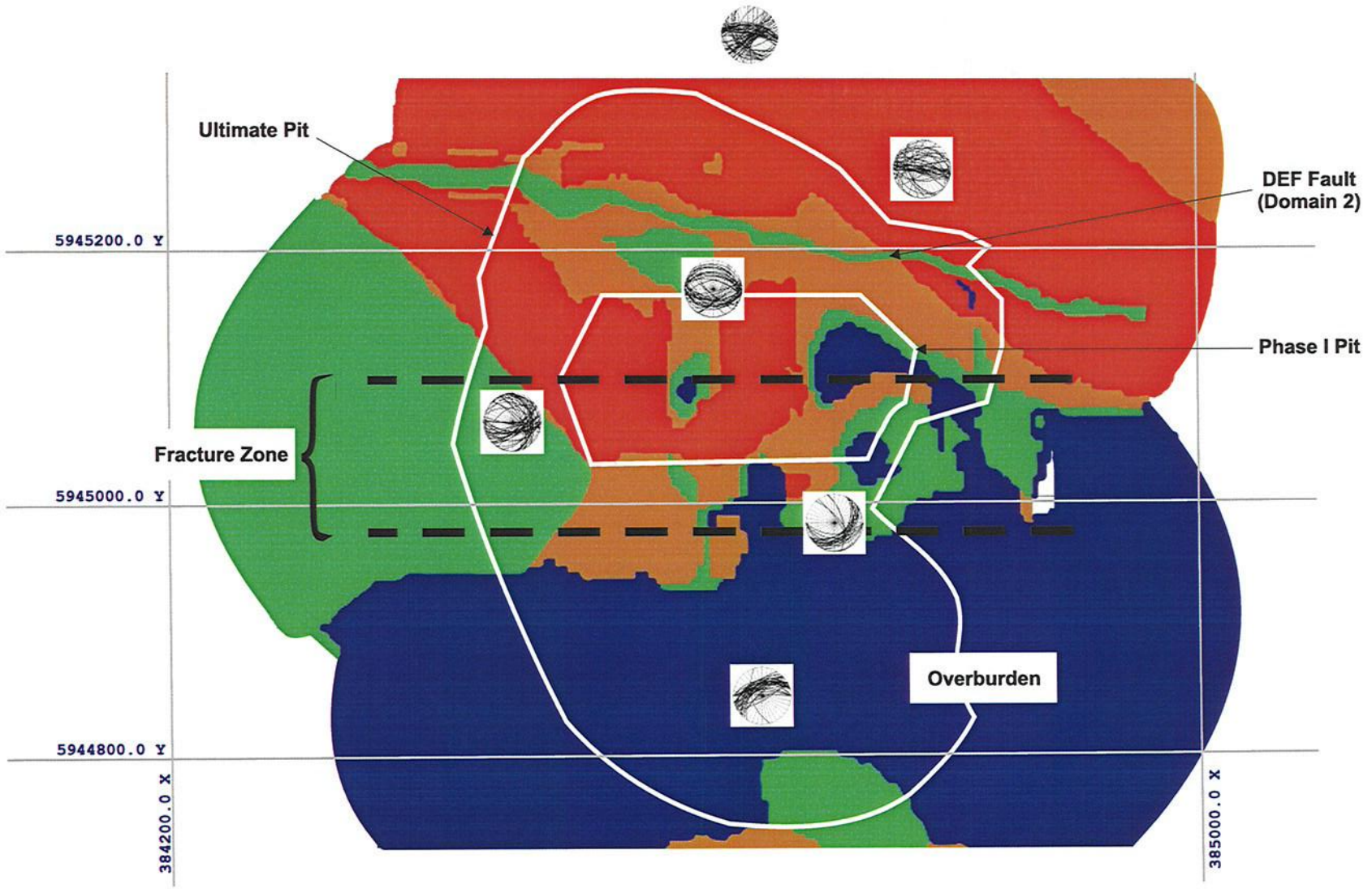
| | | | | | |
|---|---|---|---|---|---|
| EBA Engineering Consultants Ltd. | | CLIENT: SHERWOOD MINING CORPORATION | | PROJECT: MINTO PROJECT, YUKON | |
| DWN. CLS | CHKD. EF | | | TITLE: STRUCTURAL DOMAINS | |
| EBA JOB NO. 1200173 | | FILE: 1200173D01c.cdr | REVISION NO. 1 | DATE: March 2006 | **Figure 10** |




**Legend:**

- RMR = 1 to 25
- RMR = 25 to 35
- RMR = 35 to 50
- RMR = > 50

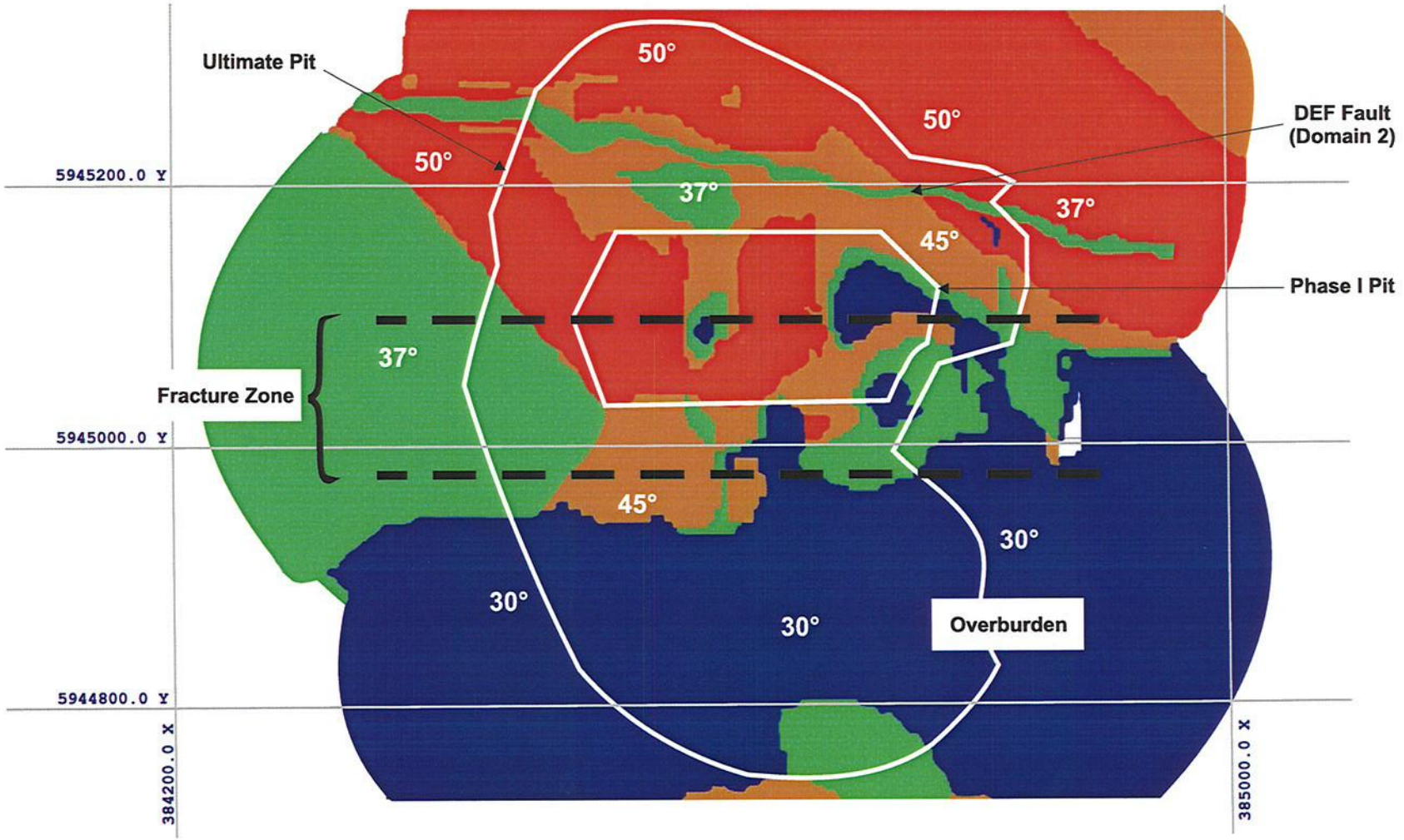
| | | | | | |
|---|---|---|---|---|---|
| EBA Engineering Consultants Ltd. | | CLIENT: SHERWOOD MINING CORPORATION | | PROJECT: MINTO PROJECT, YUKON | |
| DWN. CLS | CHKD. EF | | | TITLE: TYPICAL RMR SECTION - 4725E (Looking East) | |
| EBA JOB NO. 1200173 | | FILE: 1200173D01d.cdr | REVISION NO. 1 | DATE: March 2006 | Figure 11 |




**Legend:**

- RMR = 1 to 25 (Domain 4)
- RMR = 25 to 35 (Domain 2)
- RMR = 35 to 50 (Domain 3)
- RMR = > 50 (Domain 1)

| | | | | |
|---|---|---|---|---|
| EBA Engineering Consultants Ltd. | CLIENT: SHERWOOD MINING CORPORATION | | PROJECT: MINTO PROJECT, YUKON | |
| DWN. CLS / CHKD. EF | | | TITLE: TYPICAL RMR PLAN 781 EL. WITH GREAT CIRCLES (Discontinuities) | |
| EBA JOB NO. 1200173 | FILE: 1200173D01c.cdr | REVISION NO. 1 | DATE: March 2006 | Figure 12 |




**30° = Overall Slope Angle**

**Legend:**

- RMR = 1 to 25 (Domain 4)
- RMR = 25 to 35 (Domain 2)
- RMR = 35 to 50 (Domain 3)
- RMR = > 50 (Domain 1)

| | | | | |
|---|---|---|---|---|
| EBA Engineering Consultants Ltd. | CLIENT: SHERWOOD MINING CORPORATION | | PROJECT: MINTO PROJECT, YUKON | |
| DWN. CLS / CHKD. EF | | | TITLE: ULTIMATE PIT SLOPE & PHASE 1 ANGLES WITH RMR, GEOLOGY | |
| EBA JOB NO. 1200173 | FILE: 1200173D01c.cdr | REVISION NO. 1 | DATE: March 2006 | Figure 13 |

# APPENDIX

## APPENDIX A MINTOEX COREHOLE LOGS AND PHOTOS

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: Sherwood
Project: Minto
Project Number:
Logged By: Paul (APEX)

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05SWC-010

Date Hole Started:
Date Hole Finished:
Total Hole Depth (m):
Depth of Casing (m): 6.1
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | |
| 6.10 | | | | | | | | | | | | | | | | | | | | | | |
| 6.71 | 0.61 | 1 | 0.47 | 77 | 0.00 | 0 | 99 | _ | 4 | R | 2.5 | 15 | 10 | _ | _ | 0 | 1 | 5 | 0 | 1 | 5 | |
| 8.23 | 1.52 | 2 | 1.20 | 79 | 0.00 | 0 | 99 | _ | 4 | R | 1.0 | 15 | 10 | _ | _ | 0 | 1 | 4 | 0 | 1.5 | 4 | |
| 9.75 | 1.52 | 3 | 1.25 | 82 | 0.10 | 7 | 99 | _ | 4 | R | 1.0 | 6 | 9 | 48 | 45 | 6 | 1 | 4 | 12 | 1.5 | 3 | |
| 11.28 | 1.53 | 4 | 1.02 | 67 | 0.11 | 7 | 99 | _ | 4 | R | 1.0 | 6 | 10 | _ | _ | 6 | 1.5 | 3 | 6 | 1.5 | 3 | |
| 12.80 | 1.52 | 5 | 1.40 | 92 | 0.12 | 8 | 17 | _ | 4 | R | 2.0 | 4 | 9 | 30 | 48 | 12 | 1.5 | 3 | 12 | 1.5 | 3 | |
| 14.02 | 1.22 | 6 | 0.86 | 70 | 0.00 | 0 | 12 | _ | 4 | R | 2.0 | 3 | 6 | 58 | _ | 12 | 1.5 | 3 | 12 | 1.5 | 3 | |
| 15.54 | 1.52 | 7 | 1.31 | 86 | 0.22 | 14 | 12 | _ | 4 | R | 2.5 | 6 | 7 | 39 | 42 | 6 | 1.5 | 6 | 12 | 1.5 | 4 | |
| 17.07 | 1.53 | 8 | 1.30 | 85 | 0.12 | 8 | 16 | _ | 4 | R | 2.5 | 6 | 7 | 70 | 31 | 6 | 1.5 | 4 | 12 | 1.5 | 3 | |
| 18.74 | 1.67 | 9 | 1.07 | 64 | 0.11 | 7 | 11 | _ | 4 | R | 1.5 | 6 | 7 | 36 | 58 | 0 | 1 | 9 | 6 | 1.5 | 4 | |
| 20.42 | 1.68 | 10 | 1.43 | 85 | 0.00 | 0 | 20 | _ | 4 | R | 2.5 | 6 | 7 | 39 | 65 | 0 | 1 | 9 | 6 | 1.5 | 4 | |
| 21.95 | 1.53 | 11 | 0.76 | 50 | 0.13 | 8 | 9 | _ | 3 | R | 2.5 | 6 | 7 | 30 | 60 | 6 | 1.5 | 3 | 6 | 1.5 | 3 | |
| 23.47 | 1.52 | 12 | 1.38 | 91 | 0.66 | 43 | 13 | _ | 3 | R | 2.5 | 6 | 8 | 35 | 62 | 6 | 1.5 | 4 | 6 | 1.5 | 3 | |
| 24.99 | 1.52 | 13 | 1.44 | 95 | 0.12 | 8 | 15 | 2 | 4 | R | 1.0 | 6 | 9 | 45 | 25 | 0 | 1 | 4 | 12 | 1.5 | 3 | |
| 26.21 | 1.22 | 14 | 1.06 | 87 | 0.12 | 10 | 13 | 3 | 4 | R | 1.0 | 6 | 8 | 45 | 30 | 0 | 1 | 8 | 6 | 1.5 | 3 | |
| 27.74 | 1.53 | 15 | 1.41 | 92 | 0.71 | 46 | 6 | 5 | 4 | R | 1.0 | 6 | 5 | 40 | 45 | 6 | 0.5 | 2 | 14 | 1 | 2 | |
| 29.26 | 1.52 | 16 | 1.38 | 91 | 0.78 | 51 | 10 | 3 | 3 | R | 2.5 | 6 | 5 | 35 | 65 | 16 | 1 | 3 | 16 | 1 | 2 | |
| 30.93 | 1.67 | 17 | 1.49 | 89 | 0.91 | 54 | 11 | 5 | 4 | R | 2.0 | 4 | 3 | 29 | 49 | 0 | 1 | 8 | 12 | 1 | 3 | |
| 32.46 | 1.53 | 18 | 1.49 | 97 | 1.03 | 67 | 8 | 6 | 4 | R | 2.5 | 4 | 6 | 30 | 65 | 0 | 1 | 8 | 6 | 0.5 | 3 | |
| 34.14 | 1.68 | 19 | 1.34 | 80 | 1.11 | 66 | 7 | 6 | 3 | R | 2.5 | 4 | 6 | 45 | 70 | 16 | 1 | 2 | 16 | 1 | 2 | |
| 35.36 | 1.22 | 20 | 1.34 | 110 | 1.14 | 93 | 5 | 6 | 3.5 | R | 2.5 | 4 | 9 | 40 | 50 | 0 | 1 | 9 | 14 | 1.5 | 3 | |
| 36.88 | 1.52 | 21 | 1.53 | 101 | 0.94 | 62 | 8 | 5 | 3.5 | R | 2.5 | 9 | 5 | 45 | 5 | 0 | 1 | 9 | 6 | 1.5 | 3 | |
| 38.40 | 1.52 | 22 | 1.52 | 100 | 0.66 | 43 | 12 | 4 | 3 | R | 2.5 | 9 | 8 | 35 | 55 | 12 | 1.5 | 4 | 14 | 1.5 | 3 | |
| 39.62 | 1.22 | 23 | 1.18 | 97 | 0.34 | 28 | 11 | 9 | 3.5 | R | 2.0 | 6 | 5 | 40 | 60 | 12 | 1.5 | 3 | 14 | 1.5 | 2 | |
| 40.54 | 0.92 | 24 | 0.85 | 92 | 0.70 | 76 | 5 | 3 | 4 | R | 2.0 | 6 | 12 | 35 | 65 | 12 | 1.5 | 2 | 14 | 1.5 | 2 | |
| 42.06 | 1.52 | 25 | 1.56 | 103 | 1.25 | 82 | 8 | 2 | 3.5 | R | 2.0 | 6 | 5 | 45 | 65 | 12 | 1.5 | 4 | 12 | 1.5 | 2 | |
| 43.28 | 1.22 | 26 | 1.06 | 87 | 0.92 | 75 | 7 | 2 | 2.5 | R | 2.0 | 6 | 7 | 40 | 68 | 6 | 0.5 | 8 | 12 | 1.5 | 3 | |
| 44.81 | 1.53 | 27 | 1.55 | 101 | 0.83 | 54 | 10 | 3 | 2.5 | R | 2.5 | 9 | 11 | 35 | 55 | 0 | 1 | 8 | 12 | 1.5 | 4 | |
| 47.24 | 2.43 | 28 | 2.22 | 91 | 1.40 | 58 | 14 | 8 | 3.5 | R | 2.5 | 4 | 7 | 40 | 70 | 0 | 1 | 9 | 12 | 1 | 3 | |
| 48.00 | 0.76 | 29 | 0.88 | 116 | 0.71 | 93 | 2 | 5 | 4 | R | 2.5 | 2 | 3 | 45 | _ | 0 | 1 | 9 | 12 | 1 | 3 | |
| 50.60 | 2.60 | 30 | 2.49 | 96 | 1.51 | 58 | 11 | 7 | 2.5 | R | 3.5 | 6 | 7 | 45 | 70 | 0 | 1 | 10 | 12 | 1.5 | 3 | |
| 53.64 | 3.04 | 31 | 3.00 | 99 | 2.66 | 88 | 9 | 6 | 2 | R | 2.0 | 9 | 5 | 45 | 25 | 12 | 1.5 | 3 | 14 | 1 | 2 | |
| 56.69 | 3.05 | 32 | 3.00 | 98 | 2.61 | 86 | 12 | 2 | 2 | R | 2.5 | 6 | 5 | 45 | 60 | 6 | 1 | 4 | 12 | 1.5 | 1 | |
| 59.89 | 3.20 | 33 | 3.01 | 94 | 2.33 | 73 | 25 | 7 | 2.5 | R | 2.5 | 6 | 5 | 45 | 30 | 0 | 1 | 8 | 12 | 1.5 | 2 | |
| 63.09 | 3.20 | 34 | 3.12 | 97 | 2.55 | 80 | 11 | 7 | 2.5 | R | 3.0 | 6 | 4 | 55 | 85 | 0 | 1 | 8 | 12 | 1.5 | 2 | |
| 66.14 | 3.05 | 35 | 2.98 | 98 | 2.36 | 77 | 11 | 9 | 2 | R | 3.0 | 6 | 4 | 75 | 30 | 6 | 1 | 6 | 12 | 1.5 | 2 | |
| 69.19 | 3.05 | 36 | 3.05 | 100 | 2.30 | 75 | 16 | 7 | 2 | R | 3.5 | 6 | 3 | 45 | 60 | 12 | 1.5 | 2 | 14 | 1.5 | 2 | |
| 72.24 | 3.05 | 37 | 2.94 | 96 | 2.16 | 71 | 14 | 7 | 2 | R | 3.0 | 6 | 8 | 74 | 45 | 6 | 0.5 | 6 | 12 | 1.5 | 2 | |
| 75.29 | 3.05 | 38 | 3.01 | 99 | 2.58 | 85 | 11 | 5 | 2.5 | R | 3.0 | 6 | 6 | 55 | 65 | 6 | 1 | 8 | 12 | 1.5 | 2 | |
| 78.03 | 2.74 | 39 | 2.74 | 100 | 1.80 | 66 | 24 | 3 | 2.5 | R | 3.0 | 6 | 6 | 35 | 55 | 0 | 1 | 8 | 6 | 0.5 | 4 | |
| 81.08 | 3.05 | 40 | 3.05 | 100.00 | 2.07 | 68 | 17 | 7 | 2.5 | R | 3.5 | 4 | 4 | 55 | 65 | 0 | 1 | 8 | 12 | 1 | 2 | |

## POINT LOAD TEST RECORD



Project Name: _____ Date: _____

Recorded by: PAUL - APEX

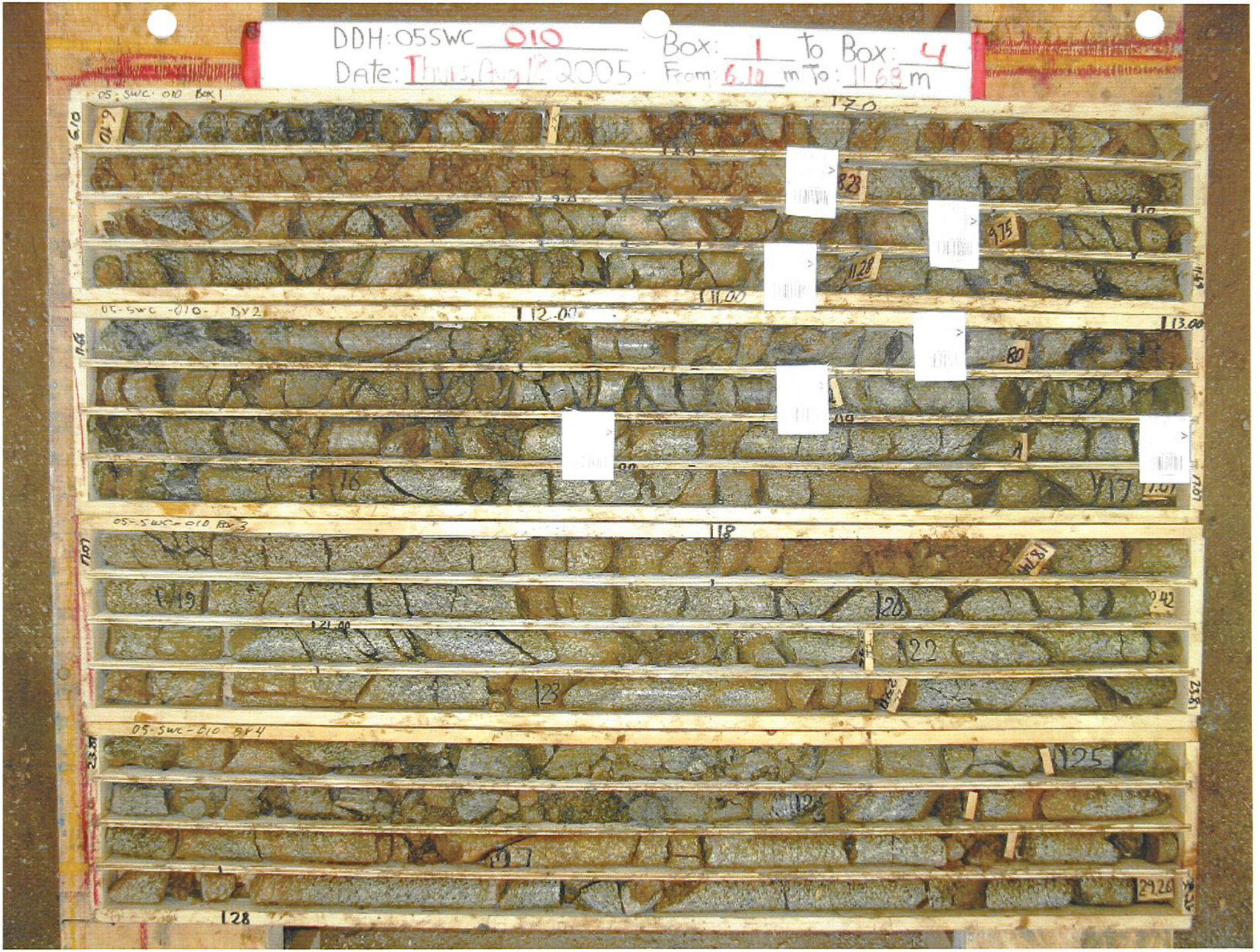
Project Num HOLE 05SWC-010

| Depth (m) | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 123 | D | - | - | NQ | 15140 | |
| 123 | A | - | 34mm | NQ | 12320 | |
| 116 | D | - | - | NQ | 8880 | |
| 116 | A | - | 29mm | NQ | 8220 | |
| 114 | D | // | - | NQ | 6800 | FOLLIATED ZONE |
| 114 | A | L | 32mm | NQ | 11520 | FOLLIATED ZONE |
| 130 | D | - | - | NQ | 12600 | |
| 130 | A | L | 25mm | NQ | 7220 | |
| 134 | D | - | - | NQ | 12880 | |
| 134 | A | - | 34mm | NQ | 12540 | |
| 138 | D | - | - | NQ | 12650 | |
| 138 | A | - | 42mm | NQ | 10180 | |
| 105 | D | - | - | NQ | OFF SCALE | |
| 105 | A | - | 32mm | NQ | 8100 | |
| 103 | A | - | - | NQ | 6140 | POOR TEST |
| 103 | D | - | 42mm | NQ | 10700 | |
| 94 | D | - | - | NQ | 13540 | |
| 94 | A | - | 24mm | NQ | 9640 | |
| 88 | A | - | 42mm | NQ | 13320 | |
| 88 | D | - | - | NQ | OFF SCALE | |
| 82 | D | - | - | NQ | 13400 | |
| 82 | A | - | 25mm | NQ | 10140 | |
| 76 | D | - | - | NQ | 6720 | |
| 76 | A | - | 39mm | NQ | 5100 | |
| 72 | D | - | - | NQ | 7900 | |
| 72 | A | - | 43mm | NQ | 7885 | |
| 65 | D | - | - | NQ | 11260 | |
| 65 | A | - | 19mm | NQ | 4980 | |
| 60 | D | II | - | NQ | 7120 | |
| 60 | A | - | 25mm | NQ | 5960 | |
| 50 | A | - | 20mm | NQ | 3360 | |
| 50 | D | - | - | NQ | 4060 | POOR TEST |
| 54 | A | - | 37mm | NQ | 9360 | |
| 54 | D | - | - | NQ | 8980 | |
| 42 | A | - | 34mm | NQ | 4060 | |
| 42 | D | - | - | NQ | 5640 | |
| 35 | A | - | 39mm | NQ | 6980 | |
| 35 | D | - | - | NQ | 7100 | |
| 33 | A | - | 34mm | NQ | 5000 | |
| 33 | D | - | - | NQ | 5300 | |
| 27 | A | - | 41mm | NQ | 420 | HIGHLY WEATHERED |
| 27 | D | - | - | NQ | 800 | AS ABOVE |
| 20 | A | - | 28mm | NQ | 860 | |
| 20 | D | - | - | NQ | 1480 | |
| 13 | A | - | 18mm | NQ | 4600 | METER 8 TOO CRUSHED |
| 13 | D | - | - | NQ | 4080 | FOR TESTING |

TYPE:

D - Diametral L - Perpendicular

A - Axial // - Parallel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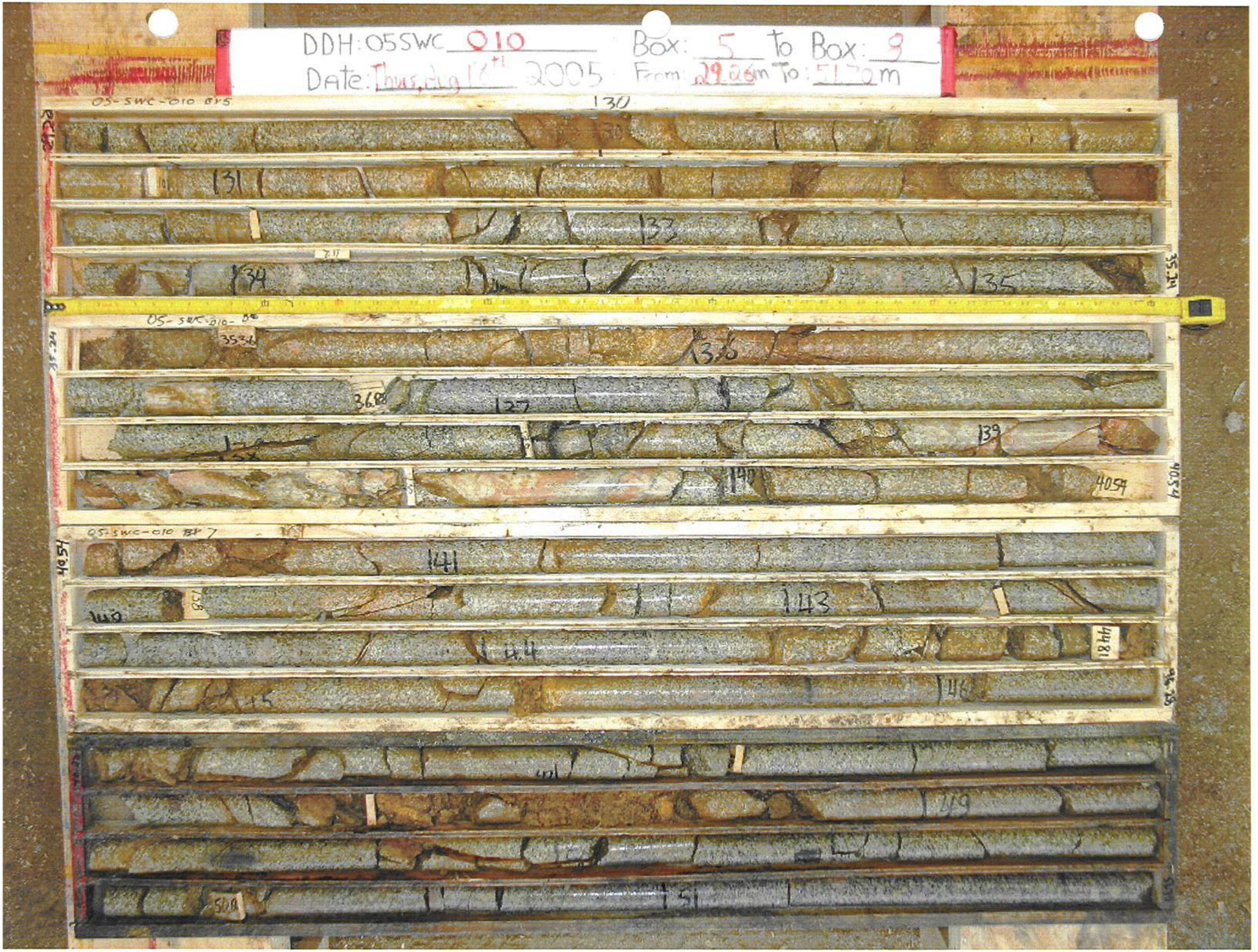
Date: Thurs, Aug 18 2005
From: 6.10 m To: 11.68 m
05-SWC-010 Box 1
05-SWC-010 Box 2
05-SWC-010 Box 3
05-SWC-010 Box 4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134
135
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36.88
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05-SWC-010 BX7
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44.4
44.81
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50.0
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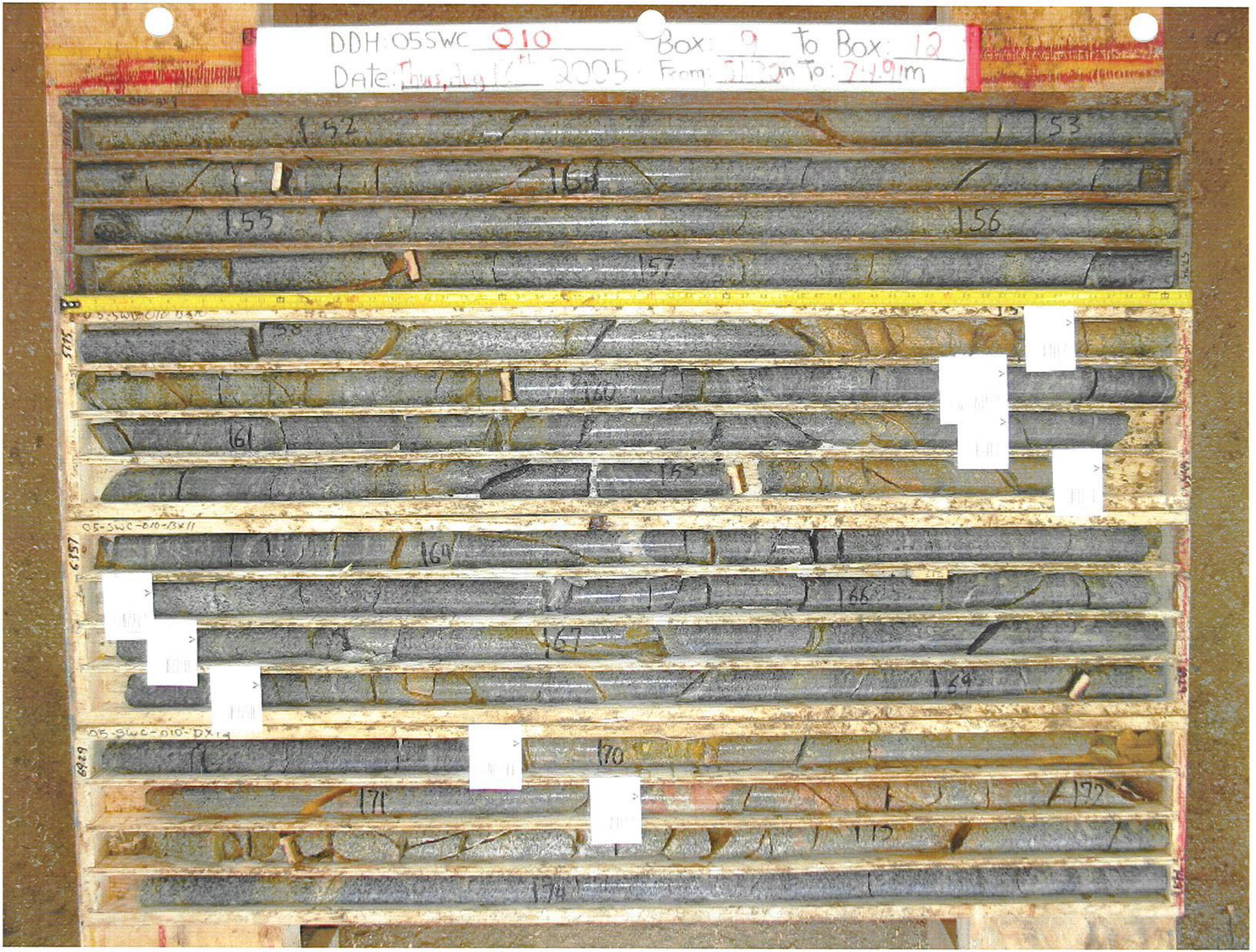
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Date: Thurs, Aug 11th 2005 From: 51.23m To: 74.91m
152
153
154
155
156
157
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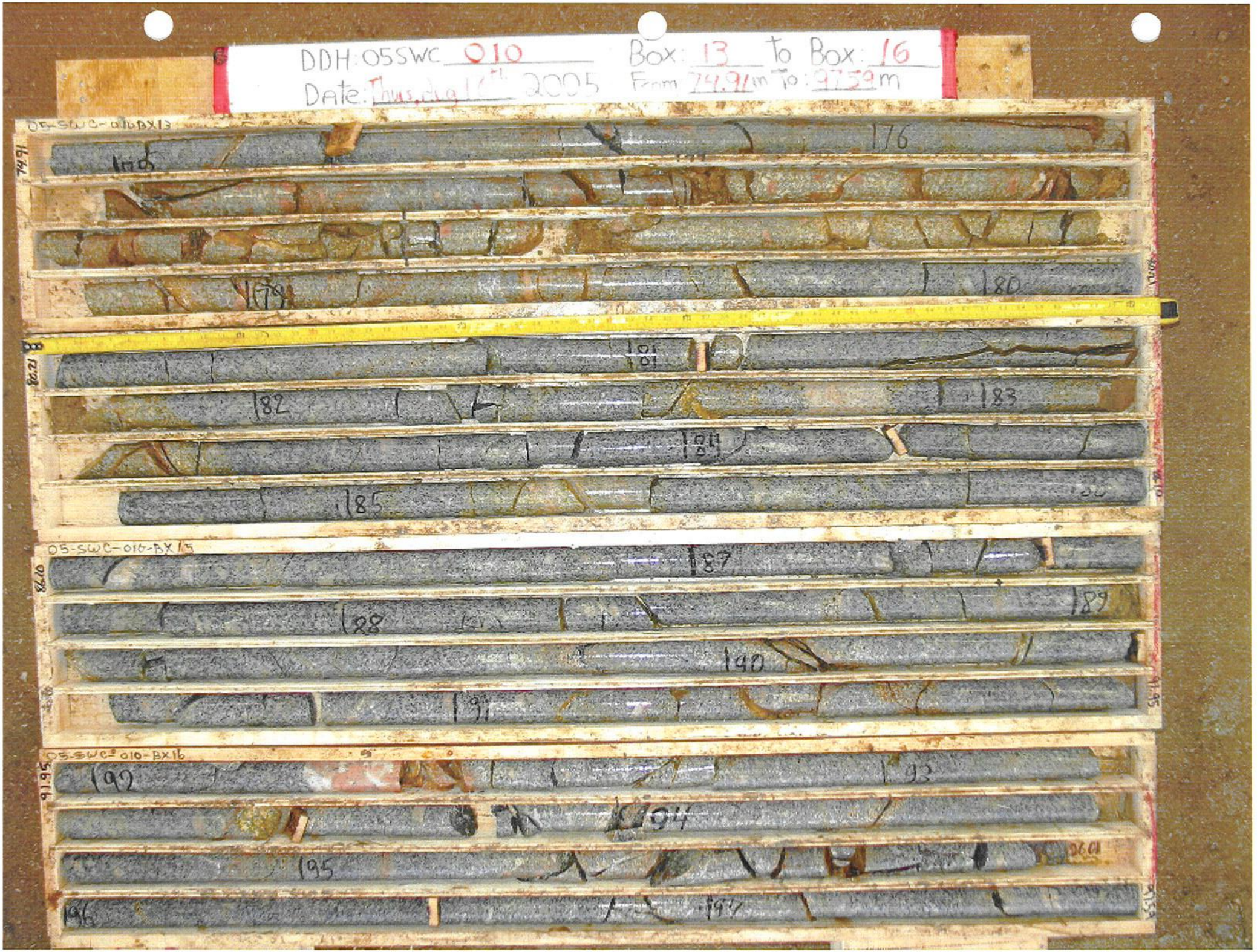
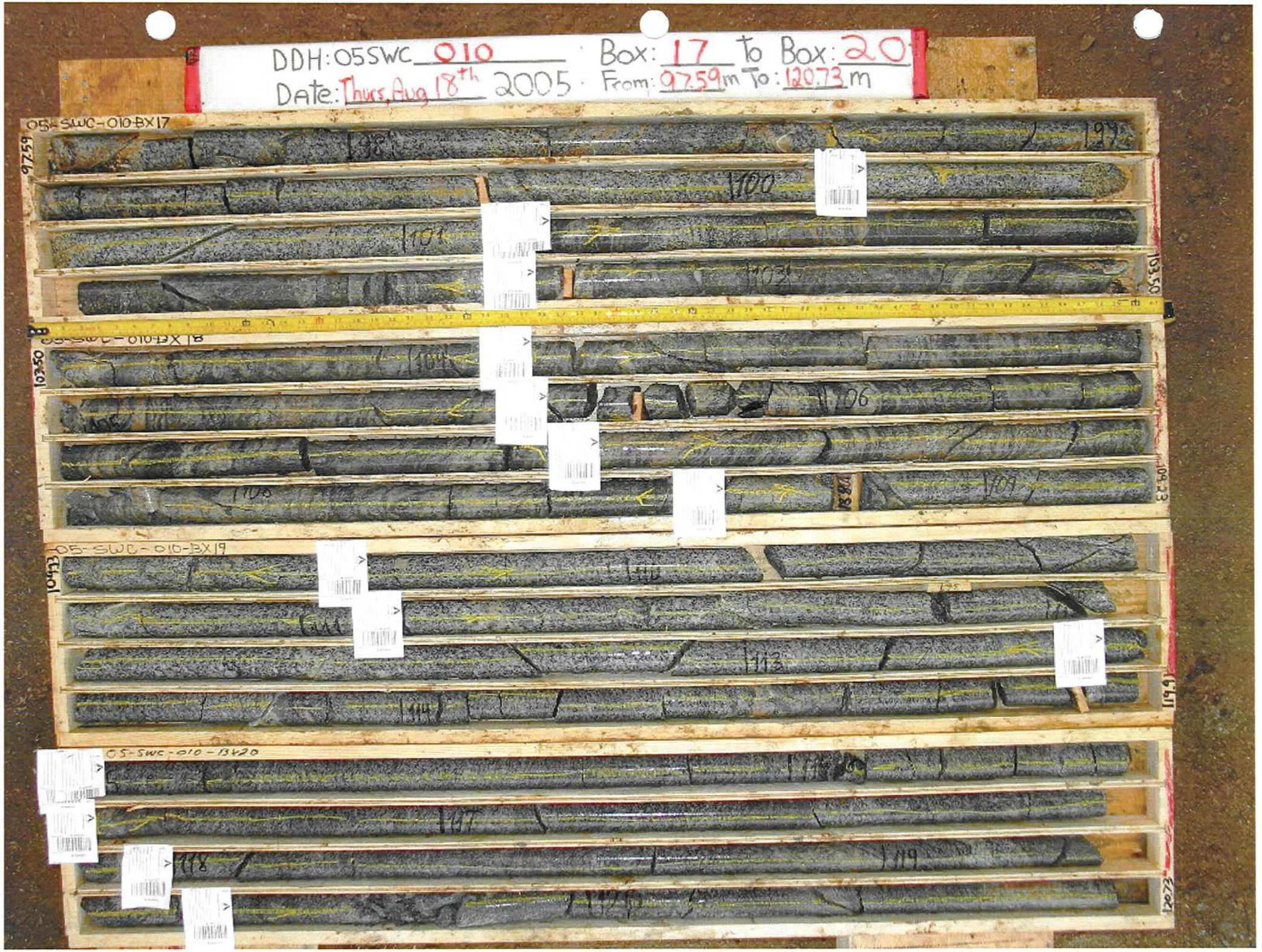

DDH: 05SWC 010 Box: 13 to Box: 16
Date: Thurs, Aug 11th 2005 From 74.91m To: 97.59m
05-SWC-010-BX13
176
179
180
182
183
185
05-SWC-010-BX15
187
188
189
190
191
05-SWC-010-BX16
192
193
194
195
196


DDH: 05SWC 010 Box: 17 to Box: 20
Date: Thurs, Aug 18th 2005 From: 97.59 m To: 120.73 m
05-SWC-010-BX17
97.59
10350
05-SWC-010-BX18
10350
10423
05-SWC-010-BX19
10423
10497
05-SWC-010-BX20
10497
10572

DDH: 05SWC 010
Box: 21 to Box: 24
Date: Thurs, Aug 18th 2005
From: 120.73m To: 139.29m
05-SWC-010
120.73
121
122
123
124C
105
126.58
127
128
129
130
131
132.15
05-SWC-010 BX23
133
134
135
135.01
131.60
05-SWC-010 BX24
132.60
139
139.29

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: Sherwoood Copper
Project: Minto
Project Number:
Logged By: Paul Burry

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05SWC-012

Date Hole Started:
Date Hole Finished:
Total Hole Depth (m): 111.86
Depth of Casing (m): 6.1
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | |
| 12.80 | | | | | | | | | | | | | | | | | | | | | | |
| 14.63 | 1.83 | 1.00 | 0.18 | 9.84 | 0.00 | 0.00 | 99 | 99 | 3.5 | R | 3.0 | 15.0 | 9.0 | - | - | 0.0 | 1 | 5 | 0 | 1 | 5 | |
| 15.25 | 0.62 | 2.00 | 0.14 | 22.58 | 0.00 | 0.00 | 3 | 99 | 3.5 | R | 3.0 | 4.0 | 9.0 | - | - | 0.0 | 1 | 5 | 0 | 1 | 5 | |
| 17.68 | 2.43 | 3.00 | 1.34 | 55.14 | 0.55 | 22.63 | 9 | - | 3.5 | R | 3.0 | 4.0 | 5.0 | 60.0 | 85.0 | 12.0 | 1.5 | 3 | 12 | 1.5 | 3 | |
| 18.90 | 1.22 | 4.00 | 1.29 | 105.74 | 1.17 | 95.90 | 6 | 2 | 3 | R | 3.0 | 9.0 | 3.0 | 60.0 | 65.0 | 12.0 | 1 | 3 | 12 | 1.5 | 2 | |
| 20.42 | 1.52 | 5.00 | 0.87 | 57.24 | 0.29 | 19.08 | 1 | 99 | 4 | R | 2.0 | 4.0 | 2.0 | 60.0 | - | 0.0 | 1 | 9 | 6 | 1 | 9 | |
| 21.95 | 1.53 | 6.00 | 0.82 | 53.59 | 0.00 | 0.00 | 99 | 99 | 4.5 | R | 2.0 | 15.0 | 3.0 | - | - | 0.0 | 1 | 9 | 6 | 1 | 9 | |
| 23.47 | 1.52 | 7.00 | 0.71 | 46.71 | 0.00 | 0.00 | 11 | 2 | 2 | R | 3.5 | 9.0 | 9.0 | 65.0 | 90.0 | 14.0 | 1 | 3 | 16 | 1.5 | 2 | PEGMATITE DYKE |
| 24.99 | 1.52 | 8.00 | 1.18 | 77.63 | 0.99 | 65.13 | 7 | 2 | 3 | R | 3.0 | 4.0 | 5.0 | 68.0 | 42.0 | 12.0 | 1 | 3 | 14 | 1.5 | 3 | |
| 26.52 | 1.53 | 9.00 | 1.47 | 96.08 | 1.00 | 65.36 | 11 | 2 | 3 | R | 3.0 | 4.0 | 4.0 | 45.0 | 80.0 | 12.0 | 1 | 4 | 14 | 1.5 | 3 | |
| 28.04 | 1.52 | 10.00 | 1.42 | 93.42 | 0.37 | 24.34 | 26 | 3 | 3.5 | R | 3.0 | 9.0 | 5.0 | 45.0 | 75.0 | 12.0 | 1 | 3 | 12 | 1.5 | 3 | |
| 29.57 | 1.53 | 11.00 | 1.47 | 96.08 | 0.86 | 56.21 | 20 | 5 | 3 | R | 3.0 | 6.0 | 3.0 | 55.0 | 78.0 | 12.0 | 1 | 3 | 16 | 1 | 3 | |
| 31.09 | 1.52 | 12.00 | 1.45 | 95.39 | 0.79 | 51.97 | 16 | 2 | 3 | R | 3.0 | 9.0 | 3.0 | 35.0 | 65.0 | 14.0 | 1 | 3 | 16 | 1 | 3 | |
| 32.61 | 1.52 | 13.00 | 1.43 | 94.08 | 0.61 | 40.13 | 20 | 3 | 3 | R | 3.0 | 6.0 | 2.0 | 50.0 | 20.0 | 14.0 | 1 | 2 | 16 | 1 | 2 | |
| 34.14 | 1.52 | 14.00 | 1.52 | 100.00 | 1.44 | 94.74 | 5 | 1 | 2.5 | R | 3.0 | 6.0 | 3.0 | 45.0 | 30.0 | 14.0 | 1 | 3 | 1 | 1 | 3 | |
| 35.66 | 1.52 | 15.00 | 1.52 | 100.00 | 1.44 | 94.74 | 6 | 1 | 2.5 | R | 3.0 | 4.0 | 3.0 | 65.0 | 35.0 | 14.0 | 1 | 3 | 12 | 1 | 3 | |
| 37.19 | 1.53 | 16.00 | 1.35 | 88.24 | 0.90 | 58.82 | 12 | 1 | 2 | R | 3.5 | 6.0 | 3.0 | 38.0 | 20.0 | 6.0 | 0.5 | 4 | 12 | 1 | 3 | |
| 38.71 | 1.52 | 17.00 | 1.38 | 90.79 | 1.06 | 69.74 | 10 | 1 | 3 | R | 3.0 | 4.0 | 3.0 | 40.0 | 33.0 | 6.0 | 1 | 8 | 12 | 1 | 4 | |
| 40.23 | 1.52 | 18.00 | 1.57 | 103.29 | 1.09 | 71.71 | 8 | 4 | 2.5 | R | 3.0 | 6.0 | 4.0 | 70.0 | 20.0 | 12.0 | 1 | 4 | 12 | 1 | 3 | |
| 41.76 | 1.53 | 19.00 | 1.49 | 97.39 | 1.00 | 65.36 | 10 | 4 | 2.5 | R | 3.0 | 6.0 | 2.0 | 50.0 | 35.0 | 12.0 | 1 | 4 | 16 | 1.5 | 2 | |
| 44.81 | 3.05 | 20.00 | 2.99 | 98.03 | 2.82 | 92.46 | 6 | 6 | 2 | R | 3.0 | 4.0 | 2.0 | 55.0 | 38.0 | 16.0 | 1 | 3 | 18 | 1 | 2 | |
| 47.85 | 3.04 | 21.00 | 2.99 | 98.36 | 2.85 | 93.75 | 6 | 3 | 2 | R | 4.0 | 3.0 | 2.0 | 50.0 | 25.0 | 12.0 | 1.5 | 3 | 16 | 1.5 | 2 | |
| 50.90 | 3.05 | 22.00 | 3.02 | 99.02 | 2.97 | 97.38 | 2 | 3 | 2 | R | 4.0 | 3.0 | 2.0 | 55.0 | 55.0 | 18.0 | 1 | 2 | 22 | 1.5 | 1 | |
| 53.95 | 3.05 | 23.00 | 2.94 | 96.39 | 2.41 | 79.02 | 15 | 2 | 2 | R | 4.0 | 4.0 | 2.0 | 20.0 | 75.0 | 12.0 | 1 | 4 | 18 | 1.5 | 2 | |
| 57.00 | 3.05 | 24.00 | 2.96 | 97.05 | 2.50 | 81.97 | 6 | 5 | 2 | R | 4.5 | 4.0 | 2.0 | 45.0 | 35.0 | 6.0 | 1 | 4 | 18 | 1.5 | 2 | PHENOCRYSTIC AND PEGMATYITIC DYKES |
| 60.05 | 3.05 | 25.00 | 3.09 | 101.31 | 2.92 | 95.74 | 12 | 5 | 2 | R | 4.0 | 4.0 | 2.0 | 45.0 | 35.0 | 14.0 | 1 | 3 | 20 | 1.5 | 2 | |
| 63.09 | 3.04 | 26.00 | 2.78 | 91.45 | 2.28 | 75.00 | 12 | 4 | 2 | R | 3.5 | 9.0 | 2.0 | 60.0 | 68.0 | 0.0 | 1 | 8 | 20 | 1 | 2 | |
| 65.84 | 2.75 | 27.00 | 2.83 | 102.91 | 1.43 | 52.00 | 21 | 5 | 2 | R | 4.0 | 9.0 | 2.0 | 60.0 | 20.0 | 0.0 | 1 | 9 | 20 | 1 | 2 | |
| 68.88 | 3.04 | 28.00 | 3.19 | 104.93 | 2.90 | 95.39 | 8 | 5 | 2 | R | 4.0 | 6.0 | 3.0 | 45.0 | 70.0 | 14.0 | 1 | 3 | 20 | 1 | 2 | |
| 72.08 | 3.20 | 29.00 | 3.03 | 94.69 | 2.80 | 87.50 | 9 | 6 | 2 | R | 3.5 | 6.0 | 3.0 | 45.0 | 70.0 | 16.0 | 1 | 2 | 20 | 1 | 2 | |
| 75.29 | 3.21 | 30.00 | 3.03 | 94.39 | 2.74 | 85.36 | 17 | 3 | 2 | R | 3.5 | 4.0 | 2.0 | 40.0 | 70.0 | 16.0 | 1 | 2 | 22 | 1 | 2 | |
| 78.33 | 3.04 | 31.00 | 2.89 | 95.07 | 2.24 | 73.68 | 16 | 5 | 2 | R | 3.0 | 6.0 | 2.0 | 45.0 | 75.0 | 0.0 | 1 | 8 | 20 | 1.5 | 2 | |
| 80.70 | 2.37 | 32.00 | 2.37 | 100.00 | 1.03 | 43.46 | 27 | 5 | 3.5 | R | 3.0 | 9.0 | 2.0 | 45.0 | 65.0 | 0.0 | 1 | 12 | 12 | 1 | 3 | |
| 83.82 | 3.12 | 33.00 | 2.86 | 91.67 | 1.15 | 36.86 | 20 | 7 | 3 | R | 3.0 | 12.0 | 2.0 | 65.0 | 80.0 | 0.0 | 1 | 12 | 12 | 1 | 3 | |
| 86.87 | 3.05 | 34.00 | 2.88 | 94.43 | 2.00 | 65.57 | 16 | 3 | 2.5 | R | 3.0 | 6.0 | 3.0 | 65.0 | 25.0 | 14.0 | 1 | 2 | 18 | 1 | 2 | |
| 87.48 | 0.61 | 35.00 | 0.53 | 86.89 | 0.00 | 0.00 | 8 | 1 | 2 | R | 3.5 | 9.0 | 2.0 | 75.0 | 45.0 | 0.0 | 1 | 8 | 18 | 1 | 2 | |
| 90.53 | 3.05 | 36.00 | 3.04 | 99.67 | 2.21 | 72.46 | 11 | 4 | 2 | R | 4.0 | 6.0 | 2.0 | 55.0 | 70.0 | 16.0 | 1 | 2 | 20 | 1 | 2 | |
| 92.35 | 1.82 | 37.00 | 1.57 | 86.26 | 1.52 | 83.52 | 5 | 3 | 2 | R | 4.0 | 2.0 | 2.0 | 60.0 | - | 20.0 | 1 | 2 | 22 | 1 | 2 | |
| 93.57 | 1.22 | 38.00 | 1.43 | 117.21 | 1.31 | 107.38 | 6 | 2 | 2 | R | 3.0 | 4.0 | 3.0 | 60.0 | 65.0 | 20.0 | 1 | 2 | 22 | 1 | 2 | |
| 94.79 | 1.22 | 39.00 | 1.17 | 95.90 | 0.62 | 50.82 | 9 | 4 | 2 | R | 3.0 | 3.0 | 4.0 | 60.0 | 55.0 | 18.0 | 2 | 2 | 22 | 2 | 2 | |
| 96.62 | 1.83 | 40.00 | 1.80 | 98.36 | 1.80 | 98.36 | 6 | 4 | 2 | R | 3.0 | 4.0 | 4.0 | 50.0 | 40.0 | 20.0 | 1 | 1 | 24 | 1 | 1 | |

## POINT LOAD TEST RECORD

Page _____ of _____

Project Name: _____ MINTO

Date: _____ FRI, AUG,19,2005

Recorded by: _____ PAUL BURRY

Project Number: _____ 05SWC-012

| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 30 | A | - | 40 | NQ | 2560 | |
| 30 | D | - | - | NQ | 1640 | POOR TEST |
| 26 | A | - | 36 | NQ | 1220 | |
| 26 | D | - | - | NQ | 550 | POOR TEST |
| 20 | | - | - | NQ | - | INTERVAL TOO BROKEN |
| 20 | | - | - | NQ | - | INTERVAL TOO BROKEN |
| 35 | A | - | 17 | NQ | 4060 | |
| 35 | D | - | - | NQ | 6940 | |
| 42 | A | - | 34 | NQ | 4020 | |
| 42 | D | - | - | NQ | 6620 | |
| 47 | A | - | 34 | NQ | 6400 | |
| 47 | D | - | - | NQ | 8900 | |
| 54 | A | - | 27 | NQ | 2340 | POOR TEST |
| 54 | D | - | - | NQ | 5420 | |
| 59 | A | - | 20 | NQ | 8460 | |
| 59 | D | - | - | NQ | OFF SCALE | |
| 66 | A | - | 30 | NQ | 10700 | |
| 66 | D | - | - | NQ | 15160 | |
| 70 | A | - | 32 | NQ | 10580 | |
| 70 | D | - | - | NQ | 13780 | |
| 74 | A | - | 32 | NQ | 9800 | |
| 74 | D | - | - | NQ | 9950 | |
| 83 | A | - | 36 | NQ | 16920 | |
| 83 | D | - | - | NQ | 14340 | |
| 87 | A | - | 19 | NQ | 5100 | |
| 87 | D | - | - | NQ | 5330 | |
| 96 | A | - | 39 | NQ | 16580 | |
| 96 | D | - | - | NQ | 18760 | |
| 102 | A | - | 30 | NQ | 8660 | |
| 102 | D | - | - | NQ | 15980 | |
| 109 | A | - | 31 | NQ | 11360 | |
| 109 | D | - | - | NQ | 8560 | POOR TEST |

TYPE:

D - Diametral  L - Perpendicular

A - Axial  // - Parallel

DDH 05SWC 012 Box: 1 to Box: 4
Date: Fri Aug 19 2005 From 12.70m To: 39.93m
05-SWC-012-BX1
05-SWC-012-BX2
05-SWC-012-BX3
05-SWC-012-BX4

DDH: 05SWC 012
Box: 5 to Box: 8
Date: Fri, Aug 19 2005
From: 39.23m To: 62.09m
05-SWC-012 B x 5
05-SWC-012-B x 6
05-SWC-012-B x 7
05-SWC-012 B x 8

DDH 05SWC 013 Box: 9 to Box: 12
Date: Feb 10th 2005 From: 62.39m To: 84.32m
05-SWC-013-BX 9
05-SWC-013-BX 11
05-SWC-013-BX 12

DDH-05SWC
Date: Fri, Aug 10th 2005
From 432m To: 1186m

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: PAUL BURRY

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05SWC-013

Date Hole Started:
Date Hole Finished:
Total Hole Depth (m):
Depth of Casing (m):
Core Size: HQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | |
| 6.15 | | | | | | | | | | | | | | | | | | | | | | |
| 6.25 | 0.10 | 1.00 | 0.10 | 100.00 | 0.10 | 100.00 | 16 | 99 | 3 | R | 3.0 | 9.0 | - | - | - | - | - | - | - | - | - | |
| 7.77 | 1.52 | 2.00 | 1.35 | 88.82 | 0.45 | 29.61 | 16 | 99 | 3 | R | 3.0 | 9.0 | 4.0 | 45.0 | 115.0 | 0.0 | 1 | 12 | 12.0 | 1 | 3 | |
| 8.53 | 0.76 | 3.00 | 0.68 | 89.47 | 0.00 | 0.00 | 13 | 99 | 3 | R | 2.5 | 15.0 | 5.0 | 45.0 | 120.0 | 0.0 | 1 | 10 | 12.0 | 1 | 3 | |
| 9.75 | 1.22 | 4.00 | 0.98 | 80.33 | 0.12 | 9.84 | 12 | 99 | 3 | R | 3.0 | 9.0 | 8.0 | 50.0 | 165.0 | 12.0 | 1 | 3 | 12.0 | 1 | 3 | |
| 10.72 | 0.97 | 5.00 | 0.81 | 83.51 | 0.00 | 0.00 | 99 | 99 | 4 | R | 2.5 | 15.0 | 2.0 | - | - | 6.0 | 1 | 4 | 12.0 | 1 | 4 | |
| 11.58 | 0.86 | 6.00 | 0.24 | 27.91 | 0.18 | 20.93 | 3 | 3 | 3 | R | 3.0 | 6.0 | 3.0 | 45.0 | 150.0 | 12.0 | 1 | 4 | 12.0 | 1 | 4 | |
| 11.73 | 0.15 | 7.00 | 0.15 | 100.00 | 0.00 | 0.00 | 3 | 2 | 3 | R | 3.0 | 6.0 | 3.0 | 35.0 | 140.0 | 12.0 | 1 | 4 | 12.0 | 1 | 4 | |
| 12.80 | 1.07 | 8.00 | 1.11 | 103.74 | 0.68 | 63.55 | 18 | 2 | 3 | R | 4.0 | 12.0 | 6.0 | 45.0 | 160.0 | 6.0 | 1 | 6 | 12.0 | 1 | 4 | |
| 13.26 | 0.46 | 9.00 | 0.35 | 76.09 | 0.00 | 0.00 | 11 | 3 | 3 | R | 4.0 | 12.0 | 4.0 | 50.0 | 165.0 | 12.0 | 1 | 2 | 12.0 | 1 | 2 | |
| 14.81 | 1.55 | 10.00 | 1.41 | 90.97 | 0.41 | 26.45 | 25 | 2 | 3.5 | R | 3.5 | 12.0 | 4.0 | 35.0 | 155.0 | 12.0 | 1 | 4 | 12.0 | 1 | 4 | |
| 15.85 | 1.04 | 11.00 | 0.85 | 81.73 | 0.31 | 29.81 | 21 | 6 | 3.5 | R | 3.0 | 12.0 | 4.0 | 45.0 | 162.0 | 12.0 | 1 | 4 | 12.0 | 1 | 4 | |
| 17.32 | 1.47 | 12.00 | 1.44 | 97.96 | 0.31 | 21.09 | 99 | 99 | 4 | R | 3.0 | 15.0 | 7.0 | - | - | 12.0 | 1 | 4 | 12.0 | 1 | 4 | |
| 18.90 | 1.58 | 13.00 | 1.35 | 85.44 | 0.74 | 46.84 | 13 | 5 | 3.5 | R | 3.0 | 6.0 | 5.0 | 45.0 | 100.0 | 6.0 | 1 | 6 | 12.0 | 1 | 4 | |
| 20.42 | 1.52 | 14.00 | 1.45 | 95.39 | 0.66 | 43.42 | 25 | 2 | 3 | R | 3.0 | 6.0 | 3.0 | 68.0 | 100.0 | 12.0 | 1 | 4 | 12.0 | 1 | 3 | |
| 21.95 | 1.53 | 15.00 | 1.40 | 91.50 | 0.78 | 50.98 | 19 | 2 | 3 | R | 3.0 | 6.0 | 3.0 | 60.0 | 105.0 | 6.0 | 1 | 8 | 12.0 | 1 | 3 | |
| 23.47 | 1.52 | 16.00 | 1.52 | 100.00 | 0.57 | 37.50 | 20 | 2 | 3 | R | 3.5 | 4.0 | 3.0 | 60.0 | 110.0 | 12.0 | 1.5 | 3 | 16.0 | 1.5 | 3 | |
| 24.69 | 1.22 | 17.00 | 1.12 | 91.80 | 0.24 | 19.67 | 25 | 1 | 3 | R | 3.0 | 6.0 | 4.0 | 60.0 | 110.0 | 12.0 | 1.5 | 3 | 14.0 | 1.5 | 3 | |
| 26.21 | 1.52 | 18.00 | 1.40 | 92.11 | 0.59 | 38.82 | 28 | 4 | 3.5 | R | 3.0 | 12.0 | 4.0 | 60.0 | 112.0 | 12.0 | 1.5 | 3 | 12.0 | 1.5 | 3 | |
| 27.89 | 1.68 | 19.00 | 1.44 | 85.71 | 0.64 | 38.10 | 25 | 2 | 3 | R | 3.0 | 12.0 | 8.0 | 40.0 | 140.0 | 12.0 | 1 | 4 | 12.0 | 1 | 4 | |
| 29.41 | 1.52 | 20.00 | 1.45 | 95.46 | 0.32 | 21.05 | 30 | 2 | 4 | R | 2.5 | 9.0 | 10.0 | 40.0 | 140.0 | 12.0 | 1.5 | 3 | 12.0 | 1.5 | 3 | |
| 31.09 | 1.68 | 21.00 | 1.51 | 89.88 | 0.73 | 43.45 | 29 | 3 | 4 | R | 3.0 | 9.0 | 8.0 | 45.0 | 170.0 | 6.0 | 1 | 6 | 12.0 | 1 | 4 | |
| 32.61 | 1.52 | 22.00 | 1.52 | 100.00 | 0.96 | 63.16 | 23 | 2 | 3 | R | 3.5 | 12.0 | 10.0 | 55.0 | 162.0 | 12.0 | 1.5 | 4 | 12.0 | 1.5 | 3 | |
| 34.14 | 1.53 | 23.00 | 1.27 | 83.01 | 0.75 | 49.02 | 17 | 3 | 3 | R | 3.0 | 12.0 | 10.0 | 48.0 | 125.0 | 14.0 | 1.5 | 3 | 14.0 | 1.5 | 3 | |
| 35.66 | 1.52 | 24.00 | 1.56 | 102.63 | 1.08 | 71.05 | 11 | 5 | 2.5 | R | 3.0 | 9.0 | 8.0 | 55.0 | 125.0 | 6.0 | 1 | 8 | 12.0 | 1.5 | 3 | |
| 37.19 | 1.53 | 25.00 | 1.42 | 92.81 | 1.12 | 73.20 | 9 | 1 | 2.5 | R | 3.5 | 6.0 | 8.0 | 60.0 | 160.0 | 12.0 | 2 | 3 | 14.0 | 3 | 3 | |
| 38.71 | 1.52 | 26.00 | 1.44 | 94.74 | 1.44 | 94.74 | 5 | 0 | 2 | R | 4.0 | 4.0 | 15.0 | 38.0 | 110.0 | 18.0 | 3 | 2 | 20.0 | 3 | 2 | |
| 40.23 | 1.52 | 27.00 | 1.56 | 102.63 | 1.50 | 98.68 | 5 | 1 | 2 | R | 4.0 | 4.0 | 9.0 | 60.0 | 162.0 | 18.0 | 3 | 1 | 20.0 | 3 | 1 | |
| 41.76 | 1.53 | 28.00 | 1.61 | 105.23 | 1.37 | 89.54 | 5 | 4 | 2 | R | 3.5 | 3.0 | 8.0 | 40.0 | 168.0 | 20.0 | 3 | 2 | 20.0 | 3 | 2 | |
| 44.81 | 3.05 | 29.00 | 2.95 | 96.72 | 2.10 | 68.85 | 19 | 3 | 2.5 | R | 3.0 | 12.0 | 8.0 | 45.0 | 153.0 | 6.0 | 1 | 8 | 14.0 | 1 | 3 | |
| 46.33 | 1.52 | 30.00 | 1.47 | 96.71 | 1.07 | 70.39 | 8 | 2 | 2 | R | 4.0 | 4.0 | 6.0 | 68.0 | 158.0 | 6.0 | 1 | 3 | 14.0 | 1 | 2 | |
| 49.38 | 3.05 | 31.00 | 2.85 | 93.44 | 1.47 | 48.20 | 25 | 7 | 1 | R | 3.5 | 4.0 | 6.0 | 65.0 | 160.0 | 16.0 | 1.5 | 3 | 20.0 | 1.5 | 3 | |
| 50.90 | 1.52 | 32.00 | 1.46 | 96.05 | 1.13 | 74.34 | 10 | 1 | 1 | R | 4.5 | 4.0 | 6.0 | 65.0 | 170.0 | 12.0 | 2 | 3 | 18.0 | 2 | 3 | |
| 52.43 | 1.53 | 33.00 | 1.41 | 92.16 | 1.17 | 76.47 | 9 | 3 | 1 | R | 3.5 | 4.0 | 5.0 | 55.0 | 175.0 | 16.0 | 1.5 | 3 | 20.0 | 1.5 | 2 | |
| 53.95 | 1.52 | 34.00 | 1.52 | 100.00 | 1.44 | 94.74 | 7 | 3 | 1 | R | 3.0 | 4.0 | 4.0 | 42.0 | 170.0 | 12.0 | 1.5 | 2 | 20.0 | 1.5 | 2 | |
| 55.47 | 1.52 | 35.00 | 1.53 | 100.66 | 0.86 | 56.58 | 9 | 6 | 1 | R | 4.0 | 4.0 | 9.0 | 65.0 | 115.0 | 12.0 | 3 | 2 | 18.0 | 3 | 2 | |
| 57.00 | 1.53 | 36.00 | 1.50 | 98.04 | 1.20 | 78.43 | 6 | 5 | 1 | R | 3.5 | 2.0 | 10.0 | 75.0 | - | 18.0 | 1 | 2 | 18.0 | 1 | 2 | |
| 58.52 | 1.52 | 37.00 | 1.44 | 94.74 | 1.09 | 71.71 | 11 | 3 | 2 | R | 4.0 | 4.0 | 10.0 | 63.0 | 132.0 | 12.0 | 1.5 | 3 | 16.0 | 1.5 | 2 | |
| 60.05 | 1.53 | 38.00 | 1.53 | 100.00 | 0.96 | 62.75 | 5 | 3 | 3 | R | 4.0 | 4.0 | 10.0 | 60.0 | 135.0 | 0.0 | 1 | 8 | 12.0 | 1.5 | 3 | |
| 61.57 | 1.52 | 39.00 | 1.46 | 96.05 | 1.02 | 67.11 | 12 | 4 | 2 | R | 3.5 | 6.0 | 7.0 | 58.0 | 138.0 | 0.0 | 1 | 10 | 14.0 | 1.5 | 3 | |
| 63.09 | 1.52 | 40.00 | 1.47 | 96.71 | 1.14 | 75.00 | 11 | 5 | 2 | R | 3.5 | 6.0 | 8.0 | 60.0 | 135.0 | 0.0 | 1 | 10 | 14.0 | 1.5 | 3 | |

## POINT LOAD TEST RECORD

Page _____ of _____

Project Name: _____ Minto

Date: _____ Sun,Aug 21st 2005

Recorded by: _____ Paul Burry

Project Number: _____ 05SWC-013

| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 8 | A | II | 45 | HQ | 1600 | |
| 8 | D | L | - | HQ | 4160 | |
| 12 | A | II | 25 | HQ | 1780 | |
| 12 | D | L | - | HQ | 2920 | |
| 14 | A | - | - | HQ | - | INTERVAL TOO BROKEN |
| 14 | D | - | - | HQ | - | INTERVAL TOO BROKEN |
| 20 | A | - | 41 | HQ | 1150 | POOR TEST |
| 20 | D | - | - | HQ | 2160 | |
| 23 | A | - | 39 | HQ | 1260 | |
| 23 | D | - | - | HQ | 2300 | |
| 26 | A | II | 27 | HQ | 3000 | |
| 26 | D | L | - | HQ | 4010 | |
| 30 | A | L | 35 | HQ | 8740 | |
| 30 | D | II | - | HQ | 2860 | |
| 32 | A | L | 30 | HQ | 2040 | |
| 32 | D | II | - | HQ | 2510 | |
| 37 | A | II | 35 | HQ | 6560 | |
| 37 | D | L | - | HQ | 10640 | |
| 41 | A | II | 41 | HQ | 650 | POOR TEST |
| 41 | D | L | - | HQ | 6170 | |
| 46 | A | II | 39 | HQ | 6900 | |
| 46 | D | L | - | HQ | 5540 | |
| 49 | A | - | 40 | HQ | 4160 | POOR TEST |
| 49 | D | - | - | HQ | 5380 | |
| 55 | A | - | 54 | HQ | 14440 | |
| 55 | D | - | - | HQ | 12840 | |
| 59 | A | - | 32 | HQ | 7440 | |
| 59 | D | - | - | HQ | 14080 | |
| 62 | A | L | 26 | HQ | 4700 | |
| 62 | D | II | - | HQ | 4250 | |
| 66 | A | L | 35 | HQ | 5720 | |
| 66 | D | II | - | HQ | 10740 | |
| 71 | A | - | 40 | HQ | OFF SCALE | |
| 71 | D | - | - | HQ | OFF SCALE | |
| 75 | A | - | 31 | HQ | 10720 | |
| 75 | D | - | - | HQ | OFF SCALE | |
| 78 | A | - | 42 | HQ | OFF SCALE | |
| 78 | D | - | - | HQ | 19220 | |
| 83 | A | - | 41 | HQ | 18540 | |
| 83 | D | - | - | HQ | OFF SCALE | |
| 87 | A | - | 39 | HQ | 7040 | |
| 87 | D | - | - | HQ | OFF SCALE | |
| 92 | A | - | 19 | HQ | 11540 | |
| 92 | D | - | - | HQ | OFF SCALE | END OF HOLE 05SWC-013 |

TYPE:

D - Diametral
A - Axial
L - Perpendicular
// - Parallel

DDH 05SWC 013
Box: 1 to Box: 4
Date: Sun, Aug 21st 2005
From: 6.19 m To: 20.70 m
8.00 m
9.75
9.0 m
10.72
11.58
13.0 m
14.0 m
15.85
16.0 m
17.0
18.0 m
17.37
18.90
20.42
20.0 m

DDH: 05SWC 013
Box: 5 to Box: 8
Date: Sun Aug 21st 2005
From: 20.70m To: 35.30m
20.70
24.30
27.89
31.50
05-SWC-014 Box 8

DDH: 05SWC 013
Box: 9 to Box: 12
Date: 31st August 2005
From: 35.30m to: 52.25m
39.49
43.58
47.86
52.25
37.19
35.30
37.94
43.58
47.86

DDH: 05SWC 013
Box: 13 to Box: 16
Date: Sun Aug 21st 2005
From: 52.25 m To: 69.05 m
05-SWC-013 Bx 13
52.25
56.43
05-SWC-013 Bx 14
56.43
60.73
60.05
05-SWC-013 Bx 15
60.73
61.57
64.65
05-SWC-013 Bx 16
64.65
69.05

DDH: 05SWC 013 Box: 17 to Box: 20
Date: Sun Aug 21st 2005 From: 69.05 m To: 85.98 m
05-SWC-013-BX17
69.05
73.05
05-SWC-013-BX18
73.05
77.23
05-SWC-013-BX19
77.23
81.48
05-SWC-013-BX20
81.48
85.98

DDH: 05SWC 013 Box: 21 to Box: 22
Date: Sun, Aug 21st 2005 From: 85.92 m To: 92.00 m
05-SWC-013-BX21
85.92
89.68
05-SWC-013-BX22
89.68
92.00

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: PAUL BURRY

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05SWC-015

Date Hole Started:
Date Hole Finished:
Total Hole Depth (m): 82.91
Depth of Casing (m): 6.4
Core Size: HQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | |
| 6.40 | | | | | | | | | | | | | | | | | | | | | | |
| 7.01 | 0.61 | 1.00 | 0.45 | 73.77 | 0.00 | 0.00 | 99 | 99 | 3 | R | 3.0 | 20.0 | 9.0 | 55.0 | - | 12.0 | 1 | 2 | 12 | 2 | 2 | |
| 8.84 | 1.83 | 2.00 | 1.65 | 90.16 | 0.23 | 12.57 | 25 | 4 | 3.5 | R | 3.5 | 9.0 | 9.0 | 50.0 | 45.0 | 12.0 | 1 | 2 | 12 | 1 | 2 | |
| 9.75 | 0.91 | 3.00 | 0.90 | 98.90 | 0.00 | 0.00 | 99 | 99 | 3.5 | R | 3.0 | 20.0 | 9.0 | - | - | 12.0 | 1 | 2 | 12 | 1 | 2 | |
| 10.97 | 1.22 | 4.00 | 0.36 | 29.51 | 0.00 | 0.00 | 99 | 99 | 3.5 | R | 3.0 | 20.0 | 9.0 | - | - | 6.0 | 1 | 9 | 12 | 1 | 2 | |
| 11.28 | 0.31 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | INTERVAL LOSS |
| 11.58 | 0.30 | 6.00 | 0.15 | 50.00 | 0.00 | 0.00 | 99 | 99 | 3.5 | R | 3.0 | 20.0 | 5.0 | - | - | 6.0 | 1 | 8 | 12 | 1 | 3 | |
| 11.89 | 0.31 | 7.00 | 0.40 | 129.03 | 0.00 | 0.00 | 99 | 99 | 3.5 | R | 3.0 | 20.0 | 5.0 | - | - | 12.0 | 1 | 4 | 12 | 1 | 3 | |
| 12.80 | 0.91 | 8.00 | 0.64 | 70.33 | 0.00 | 0.00 | 99 | 99 | 3.5 | R | 3.0 | 20.0 | 5.0 | - | - | 6.0 | 1 | 8 | 12 | 1 | 3 | |
| 14.33 | 1.53 | 9.00 | 1.35 | 88.24 | 0.41 | 26.80 | 23 | 2 | 4 | R | 2.5 | 9.0 | 9.0 | 52.0 | 102.0 | 6.0 | 1 | 8 | 12 | 1 | 3 | |
| 15.24 | 0.91 | 10.00 | 0.90 | 98.90 | 0.15 | 16.48 | 15 | 3 | 3.5 | R | 3.0 | 9.0 | 9.0 | 52.0 | 110.0 | 12.0 | 1 | 3 | 12 | 1 | 3 | |
| 16.76 | 1.52 | 11.00 | 1.26 | 82.89 | 0.32 | 21.05 | 23 | 2 | 3.5 | R | 3.0 | 12.0 | 8.0 | 74.0 | 145.0 | 12.0 | 1.5 | 3 | 12 | 1.5 | 3 | |
| 17.83 | 1.07 | 12.00 | 1.10 | 102.80 | 0.00 | 0.00 | 99 | 99 | 4 | R | 2.5 | - | 5.0 | 70.0 | 130.0 | 6.0 | 1 | 8 | 12 | 1 | 3 | |
| 18.90 | 1.07 | 13.00 | 1.07 | 100.00 | 0.00 | 0.00 | 18 | 5 | 3 | R | 3.0 | 9.0 | 7.0 | 45.0 | 85.0 | 12.0 | 1 | 3 | 16 | 1 | 2 | |
| 20.42 | 1.52 | 14.00 | 1.72 | 113.16 | 0.92 | 60.53 | 12 | 3 | 2.5 | R | 4.0 | 6.0 | 5.0 | 45.0 | 82.0 | 16.0 | 1 | 2 | 18 | 1 | 2 | |
| 21.95 | 1.53 | 15.00 | 1.40 | 91.50 | 0.76 | 49.67 | 8 | 2 | 2.5 | R | 4.0 | 6.0 | 5.0 | 35.0 | 75.0 | 16.0 | 1 | 2 | 16 | 1 | 2 | |
| 24.08 | 2.13 | 16.00 | 2.13 | 100.00 | 0.90 | 42.25 | 6 | 4 | 2.5 | R | 4.0 | 6.0 | 4.0 | 40.0 | 78.0 | 16.0 | 1 | 2 | 18 | 1 | 2 | |
| 24.99 | 0.91 | 17.00 | 0.91 | 100.00 | 0.74 | 81.32 | 5 | 1 | 2 | R | 4.0 | 4.0 | 4.0 | 37.0 | 85.0 | 18.0 | 1 | 2 | 18 | 1 | 2 | |
| 26.52 | 1.53 | 18.00 | 1.54 | 100.65 | 1.43 | 93.46 | 5 | 2 | 2 | R | 4.0 | 4.0 | 9.0 | 40.0 | 100.0 | 20.0 | 1 | 1 | 22 | 1 | 1 | |
| 28.04 | 1.52 | 19.00 | 1.34 | 88.16 | 1.19 | 78.29 | 6 | 2 | 2 | R | 4.0 | 6.0 | 12.0 | 37.0 | 105.0 | 20.0 | 1 | 1 | 22 | 3 | 1 | |
| 29.57 | 1.53 | 20.00 | 1.50 | 98.04 | 1.05 | 68.63 | 13 | 3 | 2 | R | 4.0 | 6.0 | 12.0 | 35.0 | 112.0 | 22.0 | 2 | 1 | 22 | 3 | 1 | |
| 31.09 | 1.52 | 21.00 | 1.34 | 88.16 | 1.14 | 75.00 | 8 | 1 | 2 | R | 4.0 | 4.0 | 9.0 | 60.0 | 60.0 | 22.0 | 1.5 | 1 | 22 | 1.5 | 1 | |
| 32.61 | 1.52 | 22.00 | 1.58 | 103.95 | 1.50 | 98.68 | 9 | 1 | 2 | R | 4.0 | 4.0 | 9.0 | 56.0 | 62.0 | 22.0 | 1.5 | 1 | 22 | 1.5 | 1 | |
| 34.14 | 1.53 | 23.00 | 1.53 | 100.00 | 0.86 | 56.21 | 12 | 3 | 2 | R | 4.0 | 12.0 | 10.0 | 40.0 | 25.0 | 20.0 | 1.5 | 2 | 20 | 3 | 2 | |
| 35.66 | 1.52 | 24.00 | 1.53 | 100.66 | 0.98 | 64.47 | 8 | 2 | 2 | R | 4.0 | 9.0 | 11.0 | 40.0 | 30.0 | 16.0 | 1.5 | 2 | 18 | 1.5 | 2 | |
| 37.19 | 1.53 | 25.00 | 1.28 | 83.66 | 0.77 | 50.33 | 13 | 3 | 2 | R | 4.0 | 9.0 | 10.0 | 40.0 | 27.0 | 18.0 | 1.5 | 2 | 18 | 1.5 | 2 | |
| 38.71 | 1.52 | 26.00 | 1.55 | 101.97 | 0.74 | 48.68 | 15 | 1 | 2 | R | 4.0 | 12.0 | 10.0 | 50.0 | 150.0 | 18.0 | 1.5 | 2 | 18 | 1.5 | 2 | |
| 40.23 | 1.52 | 27.00 | 1.35 | 88.82 | 0.94 | 61.84 | 10 | 3 | 2 | R | 4.0 | 12.0 | 10.0 | 55.0 | 160.0 | 12.0 | 1 | 2 | 14 | 1.5 | 2 | |
| 41.76 | 1.53 | 28.00 | 1.39 | 90.85 | 0.68 | 44.44 | 12 | 1 | 2 | R | 4.0 | 9.0 | 8.0 | 70.0 | 135.0 | 0.0 | 1 | 12 | 14 | 1.5 | 2 | |
| 43.28 | 1.52 | 29.00 | 1.56 | 102.63 | 1.38 | 90.79 | 5 | 3 | 2 | R | 4.0 | 9.0 | 8.0 | 72.0 | 130.0 | 16.0 | 1 | 2 | 16 | 1 | 2 | |
| 44.81 | 1.53 | 30.00 | 1.55 | 101.31 | 1.22 | 79.74 | 8 | 2 | 2 | R | 4.0 | 9.0 | 8.0 | 65.0 | 125.0 | 16.0 | 1.5 | 2 | 20 | 1.5 | 2 | |
| 46.33 | 1.52 | 31.00 | 1.55 | 101.97 | 1.42 | 93.42 | 5 | 1 | 1 | R | 4.5 | 6.0 | 3.0 | 45.0 | 145.0 | 23.0 | 1 | 1 | 23 | 1 | 1 | |
| 47.85 | 1.52 | 32.00 | 1.53 | 100.66 | 1.34 | 88.16 | 9 | 1 | 1 | R | 4 | 4.0 | 3.0 | 45.0 | 145.0 | 23.0 | 3 | 1 | 23 | 3 | 1 | |
| 49.38 | 1.53 | 33.00 | 1.53 | 100.00 | 1.10 | 71.90 | 9 | 2 | 1 | R | 4 | 4.0 | 3.0 | 55.0 | 25.0 | 6.0 | 1 | 4 | 23 | 3 | 1 | |
| 50.90 | 1.52 | 34.00 | 1.56 | 102.63 | 1.03 | 67.76 | 6 | 5 | 1 | R | 4.0 | 6.0 | 4.0 | 55.0 | 95.0 | 16.0 | 2 | 1 | 23 | 3 | 1 | |
| 52.43 | 1.53 | 35.00 | 1.17 | 76.47 | 1.07 | 69.93 | 5 | 2 | 2 | R | 4.0 | 6.0 | 4.0 | 42.0 | 140.0 | 12.0 | 1 | 3 | 20 | 2 | 2 | |
| 53.95 | 1.52 | 36.00 | 1.82 | 119.74 | 1.55 | 101.97 | 6 | 4 | 2 | R | 4.0 | 6.0 | 3.0 | 45.0 | 135.0 | 18.0 | 1 | 2 | 22 | 1 | 2 | |
| 55.47 | 1.52 | 37.00 | 1.42 | 93.42 | 1.42 | 93.42 | 6 | 1 | 2 | R | 4.0 | 6.0 | 3.0 | 45.0 | 135.0 | 20.0 | 1 | 2 | 20 | 3 | 2 | |
| 57.00 | 1.53 | 38.00 | 1.53 | 100.00 | 1.43 | 93.46 | 7 | 3 | 2 | R | 4.0 | 4.0 | 3.0 | 58.0 | 128.0 | 14.0 | 1 | 2 | 20 | 1 | 2 | |
| 58.52 | 1.52 | 39.00 | 1.32 | 86.84 | 1.08 | 71.05 | 4 | 2 | 2 | R | 4.0 | 4.0 | 3.0 | 55.0 | 125.0 | 20.0 | 1.0 | 1.0 | 22.0 | 2.0 | 1.0 | |
| 60.05 | 1.53 | 40.00 | 1.84 | 120.26 | 1.54 | 100.65 | 12 | 2 | 2 | R | 4.0 | 6.0 | 3.0 | 62.0 | 35.0 | 20.0 | 1.5 | 2.0 | 22.0 | 1.5 | 2.0 | |

## POINT LOAD TEST RECORD



Project Name: _____ MINTO

Date: _____

Recorded by: _____

Project Number: _____ 05-SWC-015

| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 7 | A | - | 28 | HQ | 2540 | |
| 7 | D | - | - | HQ | 880 | POOR TEST |
| 12 | A | L | 45 | HQ | 1420 | |
| 12 | D | II | - | HQ | 2040 | |
| 16 | A | L | 39 | HQ | 6580 | |
| 16 | D | II | - | HQ | 1620 | POOR TEST |
| 21 | A | L | 50 | HQ | 18540 | |
| 21 | D | II | - | HQ | 13820 | |
| 24 | A | - | 38 | HQ | 0FF SCALE | |
| 24 | D | - | - | HQ | OFF SCALE | |
| 26 | A | - | 33 | HQ | 13680 | |
| 26 | D | - | - | HQ | OFF SCALE | |
| 31 | A | - | 40 | HQ | 12620 | |
| 31 | D | - | - | HQ | 16080 | |
| 37 | A | L | 30 | HQ | 16960 | |
| 37 | D | II | - | HQ | 9760 | |
| 41 | A | L | 43 | HQ | 4360 | |
| 41 | D | II | - | HQ | 1680 | POOR TEST |
| 46 | A | - | 46 | HQ | 19420 | |
| 46 | D | - | - | HQ | OFF SCALE | |
| 50 | A | - | 53 | HQ | OFF SCALE | |
| 50 | D | - | - | HQ | 19520 | |
| 54 | A | L | 42 | HQ | 15040 | |
| 54 | D | II | - | HQ | OFF SCALE | |
| 56 | A | L | 40 | HQ | 1410 | |
| 56 | D | II | - | HQ | 9420 | |
| 60 | A | L | 40 | HQ | 14180 | |
| 60 | D | II | - | HQ | 12400 | |
| 65 | A | L | 39 | HQ | 7940 | |
| 65 | D | II | - | HQ | OFF SCALE | |
| 72 | A | II | 45 | HQ | 14700 | |
| 72 | D | L | - | HQ | OFF SCALE | |
| 75 | A | II | 40 | HQ | 6040 | |
| 75 | D | L | - | HQ | 11600 | |
| 79 | A | - | 38 | HQ | 6900 | |
| 79 | D | - | - | HQ | 13160 | |
| 81 | A | - | 31 | HQ | 10940 | |
| 81 | D | - | - | HQ | 9160 | POOR TEST |

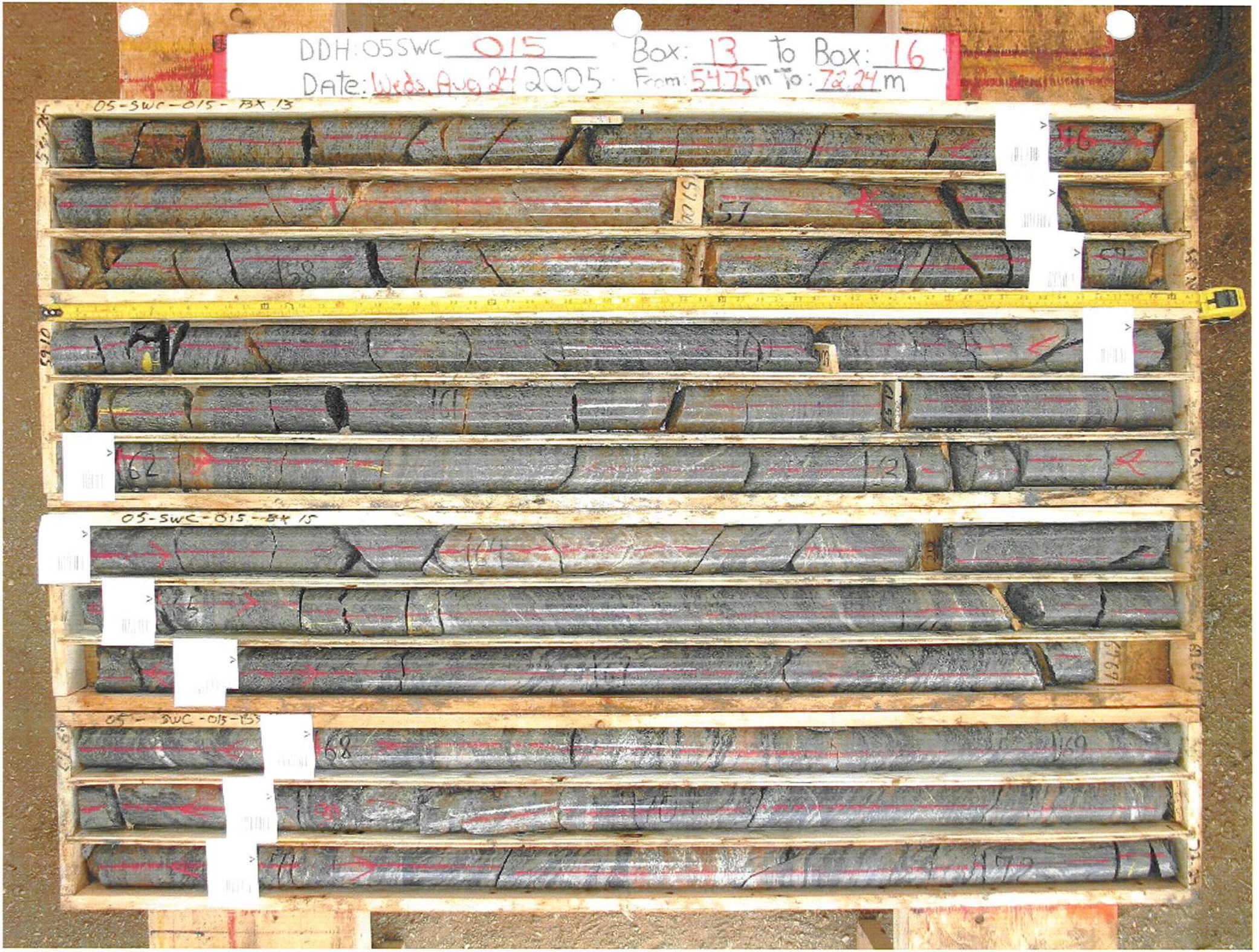
TYPE:

D - Diametral
A - Axial
L - Perpendicular
// - Parallel

DDH: 05SWC 215
Box: 1 to Box: 4
From: 6.40 m to: 21.20 m
8.84
9.75
11.89
12.80
15.24
17.83
20.42

DDH: 05SWC 015 Box: 5 to Box: 8
Date: Wed Aug 24 2005 From: 21.20m To: 32.90m
05-SWC-015-BX 5
05-SWC-015-BX 7
05-SWC-015-BX8

DDH: 05SWC 015 Box: 9 to Box: 12
Date: Weds. Aug 24 2005 From: 37.90 m To: 54.75 m
05-SWC-015-BX9
05-SWC-015-BX10
05-SWC-015 BX 11
05-SWC-015- BX 12


DDH: 05SWC 015 Box: 13 to Box: 16
Date: Weds. Aug 24 2005 From: 54.75 m To: 72.24 m
05-SWC-015 - BX 13
05-SWC-015 - BX 15
05 - SWC - 015 - BX

DDH: 05SWC 015 Box: 17 to Box: 19

Date: Weds. Aug 24 2005 From: 72.24m To: 82.91 m

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: Sherwood Copper
Project: Minto
Project Number:
Logged By: Paul Burry

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05SWC-016

Date Hole Started:
Date Hole Finished:
Total Hole Depth (m): 74.98
Depth of Casing (m): 4.27
Core Size: HQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | |
| 4.27 | | | | | | | | | | | | | | | | | | | | | | |
| 5.75 | 1.48 | 1.00 | 1.34 | 90.54 | 0.87 | 58.78 | 10 | 5 | 3.5 | R | 3.0 | 6.0 | 7.0 | 70.0 | 105.0 | 6.0 | 1.5 | 4 | 12 | 1.5 | 3 | |
| 6.71 | 0.96 | 2.00 | 0.80 | 83.33 | 0.36 | 37.50 | 8 | 1 | 3 | R | 3.0 | 6.0 | 7.0 | 35.0 | 70.0 | 12.0 | 1.5 | 3 | 12 | 1.5 | 3 | |
| 8.23 | 1.52 | 3.00 | 1.44 | 94.74 | 0.86 | 56.58 | 13 | 2 | 3 | R | 3.0 | 6.0 | 6.0 | 5.0 | 155.0 | 12.0 | 1 | 4 | 12 | 1 | 4 | |
| 9.75 | 1.52 | 4.00 | 1.42 | 93.42 | 0.86 | 56.58 | 18 | 3 | 3.5 | R | 2.0 | 9.0 | 5.0 | 65.0 | 105.0 | 12.0 | 1 | 4 | 12 | 1 | 4 | |
| 11.28 | 1.53 | 5.00 | 1.63 | 106.54 | 1.12 | 73.20 | 11 | 2 | 3.5 | R | 2.0 | 9.0 | 5.0 | 65.0 | 110.0 | 6.0 | 1 | 4 | 12 | 1 | 4 | |
| 12.80 | 1.52 | 6.00 | 1.12 | 73.68 | 0.46 | 30.26 | 13 | 1 | 3 | R | 3.0 | 6.0 | 5.0 | 65.0 | 105.0 | 12.0 | 1 | 4 | 12 | 1 | 4 | |
| 14.33 | 1.53 | 7.00 | 1.60 | 104.58 | 0.50 | 32.68 | 20 | 5 | 3.5 | R | 2.5 | 12.0 | 5.0 | 65.0 | 110.0 | 6.0 | 1 | 4 | 12 | 1 | 3 | |
| 15.85 | 1.52 | 8.00 | 1.24 | 81.58 | 0.42 | 27.63 | 11 | 1 | 3.5 | R | 3.0 | 15.0 | 6.0 | 60.0 | 140.0 | 6.0 | 1 | 4 | 12 | 1 | 3 | |
| 17.35 | 1.50 | 9.00 | 1.30 | 86.67 | 0.18 | 12.00 | 13 | 3 | 4 | R | 2.5 | 15.0 | 5.0 | 35.0 | 85.0 | 12.0 | 1 | 4 | 12 | 1 | 4 | |
| 18.90 | 1.55 | 10.00 | 1.15 | 74.19 | 0.26 | 16.77 | 11 | 2 | 3.5 | R | 3.0 | 9.0 | 7.0 | 35.0 | 150.0 | 12.0 | 2 | 4 | 12 | 2 | 3 | |
| 20.40 | 1.50 | 11.00 | 1.38 | 92.00 | 0.25 | 16.67 | 19 | 2 | 3 | R | 3.0 | 9.0 | 6.0 | 35.0 | 165.0 | 14.0 | 1 | 2 | 16 | 1 | 2 | |
| 21.95 | 1.55 | 12.00 | 1.50 | 96.77 | 1.31 | 84.52 | 10 | 1 | 3 | R | 3.5 | 6.0 | 5.0 | 20.0 | 55.0 | 14.0 | 1 | 2 | 16 | 1 | 2 | |
| 23.47 | 1.52 | 13.00 | 1.52 | 100.00 | 0.60 | 39.47 | 17 | 3 | 3 | R | 3.5 | 9.0 | 3.0 | 35.0 | 55.0 | 12.0 | 1 | 3 | 12 | 1 | 3 | |
| 24.99 | 1.52 | 14.00 | 1.50 | 98.68 | 1.03 | 67.76 | 12 | 3 | 3 | R | 3.5 | 9.0 | 4.0 | 35.0 | 60.0 | 12.0 | 1 | 3 | 12 | 1 | 3 | |
| 26.52 | 1.53 | 15.00 | 1.39 | 90.85 | 0.00 | 0.00 | 13 | 2 | 3 | R | 3.0 | 9.0 | 4.0 | 40.0 | 65.0 | 12.0 | 1 | 4 | 14 | 1 | 3 | |
| 28.04 | 1.52 | 16.00 | 1.27 | 83.55 | 0.73 | 48.03 | 18 | 3 | 3 | R | 3.0 | 9.0 | 4.0 | 50.0 | 65.0 | 14.0 | 1 | 2 | 16 | 1 | 2 | |
| 29.57 | 1.53 | 17.00 | 1.51 | 98.69 | 0.92 | 60.13 | 12 | 2 | 3 | R | 3.0 | 9.0 | 4.0 | 45.0 | 65.0 | 14.0 | 1 | 2 | 16 | 1 | 2 | |
| 31.09 | 1.52 | 18.00 | 1.40 | 92.11 | 0.85 | 55.92 | 9 | 1 | 3 | R | 3.0 | 9.0 | 4.0 | 45.0 | 65.0 | 16.0 | 1 | 2 | 16 | 1 | 2 | |
| 32.61 | 1.52 | 19.00 | 1.50 | 98.68 | 0.32 | 21.05 | 13 | 6 | 2.5 | R | 4.0 | 6.0 | 8.0 | 28.0 | 70.0 | 12.0 | 1 | 3 | 14 | 1 | 2 | |
| 34.14 | 1.53 | 20.00 | 1.40 | 91.50 | 0.90 | 58.82 | 12 | 3 | 2.5 | R | 4.0 | 6.0 | 7.0 | 32.0 | 105.0 | 16.0 | 1 | 2 | 18 | 1 | 2 | |
| 35.66 | 1.52 | 21.00 | 1.55 | 101.97 | 0.00 | 0.00 | 26 | 2 | 2.5 | R | 4.0 | 6.0 | 7.0 | 32.0 | 105.0 | 16.0 | 1 | 2 | 16 | 1 | 2 | |
| 37.19 | 1.53 | 22.00 | 1.48 | 96.73 | 0.93 | 60.78 | 12 | 2 | 2 | R | 4.0 | 4.0 | 7.0 | 65.0 | 78.0 | 16.0 | 1 | 2 | 20 | 1 | 2 | |
| 38.71 | 1.52 | 23.00 | 1.52 | 100.00 | 0.33 | 21.71 | 16 | 2 | 2 | R | 4.0 | 6.0 | 8.0 | 65.0 | 78.0 | 18.0 | 1 | 2 | 20 | 1 | 2 | |
| 40.23 | 1.52 | 24.00 | 1.33 | 87.50 | 0.72 | 47.37 | 12 | 3 | 2 | R | 4.0 | 6.0 | 6.0 | 65.0 | 75.0 | 18.0 | 1.5 | 1 | 18 | 1.5 | 1 | |
| 41.76 | 1.53 | 25.00 | 1.53 | 100.00 | 0.93 | 60.78 | 10 | 3 | 2 | R | 4.0 | 6.0 | 7.0 | 65.0 | 25.0 | 18.0 | 1.5 | 1 | 20 | 1.5 | 1 | |
| 43.28 | 1.52 | 26.00 | 1.47 | 96.71 | 0.86 | 56.58 | 17 | 2 | 2 | R | 4.0 | 9.0 | 6.0 | 65.0 | 30.0 | 20.0 | 1.5 | 1 | 20 | 1.5 | 1 | |
| 44.81 | 1.53 | 27.00 | 1.35 | 88.24 | 0.91 | 59.48 | 11 | 3 | 2 | R | 4.0 | 6.0 | 5.0 | 68.0 | 27.0 | 20.0 | 1.5 | 1 | 22 | 1.5 | 1 | |
| 46.33 | 1.52 | 28.00 | 1.49 | 98.03 | 1.36 | 89.47 | 3 | 2 | 2 | R | 3.5 | 6.0 | 5.0 | 70.0 | 30.0 | 20.0 | 2 | 1 | 22 | 2 | 1 | |
| 47.85 | 1.52 | 29.00 | 1.56 | 102.63 | 1.56 | 102.63 | 6 | 2 | 2 | R | 4.0 | 6.0 | 6.0 | 70.0 | 25.0 | 20.0 | 1.5 | 2 | 22 | 1.5 | 1 | |
| 49.38 | 1.53 | 30.00 | 1.33 | 86.93 | 0.83 | 54.25 | 10 | 2 | 2 | R | 4.0 | 9.0 | 5.0 | 68.0 | 27.0 | 20.0 | 1.5 | 2 | 20 | 1.5 | 2 | |
| 50.90 | 1.52 | 31.00 | 1.55 | 101.97 | 0.82 | 53.95 | 5 | 4 | 2 | R | 4.0 | 9.0 | 5.0 | 90.0 | 115.0 | 20.0 | 1 | 2 | 20 | 1 | 2 | |
| 52.43 | 1.53 | 32.00 | 1.48 | 96.73 | 1.04 | 67.97 | 5 | 4 | 2 | R | 4.0 | 6.0 | 8.0 | 60.0 | 110.0 | 22.0 | 1.5 | 1 | 22 | 1.5 | 1 | |
| 53.95 | 1.52 | 33.00 | 1.20 | 78.95 | 1.10 | 72.37 | 5 | 2 | 2 | R | 4.0 | 12.0 | 8.0 | 65.0 | 110.0 | 22.0 | 1.5 | 1 | 22 | 1.5 | 1 | |
| 55.47 | 1.52 | 34.00 | 1.18 | 77.63 | 1.14 | 75.00 | 4 | 1 | 2 | R | 4.0 | 12.0 | 8.0 | 65.0 | 110.0 | 22.0 | 1.5 | 1 | 24 | 1.5 | 1 | |
| 57.00 | 1.53 | 35.00 | 1.54 | 100.65 | 0.95 | 62.09 | 5 | 4 | 2 | R | 4.0 | 12.0 | 8.0 | 70.0 | 112.0 | 22.0 | 1.5 | 1 | 22 | 1.5 | 1 | |
| 58.52 | 1.52 | 36.00 | 1.53 | 100.66 | 1.10 | 72.37 | 4 | 2 | 2 | R | 4.0 | 9.0 | 7.0 | 65.0 | 120.0 | 22.0 | 1.5 | 1 | 22 | 2 | 1 | |
| 60.05 | 1.53 | 37.00 | 1.15 | 75.16 | 0.92 | 60.13 | 4 | 3 | 2 | R | 4.0 | 6.0 | 7.0 | 60.0 | 100.0 | 22.0 | 1 | 1 | 22 | 2 | 1 | |
| 61.57 | 1.52 | 38.00 | 1.48 | 97.37 | 1.25 | 82.24 | 7 | 2 | 2 | R | 4.0 | 6.0 | 6.0 | 60.0 | 110.0 | 22.0 | 1.5 | 1 | 24 | 1.5 | 1 | |
| 63.09 | 1.52 | 39.00 | 1.59 | 104.61 | 1.20 | 78.95 | 6 | 2 | 2 | R | 4.0 | 6.0 | 6.0 | 65.0 | 105.0 | 22.0 | 1.5 | 1 | 24 | 1.5 | 1 | |
| 64.62 | 1.53 | 40.00 | 1.48 | 96.73 | 1.31 | 85.62 | 5 | 3 | 2 | R | 4.0 | 9.0 | 5.0 | 68.0 | 80.0 | 22.0 | 1.5 | 1 | 24 | 1.5 | 1 | |

# POINT LOAD TEST RECORD

Page _____ of _____

Project Name: _____ Minto

Date: _____ tues, aug,23rd 2005

Recorded by: Paul Burry

Project Number: _____ 05SWC-016

| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 5 | A | - | 28 | HQ | 180 | |
| 5 | D | - | - | HQ | 300 | |
| 11 | A | - | 31 | HQ | 4620 | |
| 11 | D | - | - | HQ | 8540 | |
| 16 | A | - | 16 | HQ | 4060 | |
| 16 | D | - | - | HQ | 6320 | |
| 20 | A | II | 23 | HQ | 620 | |
| 20 | D | L | - | HQ | 2100 | |
| 22 | A | II | 22 | HQ | 1240 | |
| 22 | D | L | - | HQ | 3580 | |
| 25 | A | II | 30 | HQ | 2200 | |
| 25 | D | L | - | HQ | 3300 | |
| 28 | A | - | 28 | HQ | 4320 | |
| 28 | D | - | - | HQ | 14940 | |
| 34 | A | L | 30 | HQ | 7340 | |
| 34 | D | II | - | HQ | 12000 | |
| 37 | A | L | 40 | HQ | 5300 | |
| 37 | D | II | - | HQ | 2200 | POOR TEST |
| 41 | A | L | 27 | HQ | 6220 | |
| 41 | D | II | - | HQ | 11280 | |
| 45 | A | L | 25 | HQ | 7960 | |
| 45 | D | II | - | HQ | 5060 | |
| 49 | A | - | 20 | HQ | 2680 | |
| 49 | D | - | - | HQ | 4960 | |
| 52 | A | - | 26 | HQ | 8320 | |
| 52 | D | - | - | HQ | 6880 | |
| 57 | A | L | 35 | HQ | 9720 | |
| 57 | D | II | - | HQ | 1120 | POOR TEST |
| 61 | A | L | 20 | HQ | 9100 | |
| 61 | D | II | - | HQ | 3660 | |
| 65 | A | L | 15 | HQ | 500 | POOR TEST |
| 65 | D | II | - | HQ | 9920 | |
| 69 | A | L | 26 | HQ | 15820 | |
| 69 | D | II | - | HQ | OFF SCALE | |
| 73 | A | L | 28 | HQ | 13760 | |
| 73 | D | II | - | HQ | 11120 | END OF HOLE |

DDH: 05SWC 016
Date: Tues, Aug 23 2005
Box: 1 to Box: 4
From: 4.10 m To: 20.50 m
4.10
8.30
12.20
16.25
20.50
DS-SWC-016-BX1
DS-SWC-016-BX2
DS-SWC-016-BX3
DS-SWC-016-BX4

DDH: 05SWC 016 Box: 5 to Box: 8
Date: Tues Aug 23 2005 From: 20.50 m To: 35.30 m
20.50
24.30
24.20
27.66
31.70
35.30

DDH: 05SWC 016 Box: 9 to Box: 12
Date: Tues, Aug 23 2005 From: 35.30m To: 51.57m
35.30
36
37
38
40
42
43.40
47
50

DDH: 05SWC 016 · Box: 13 to Box: 16
Date: Tues. Aug 23 2005 · From: 51.57 m To: 68.17 m

DDH: 05SWC 016 Box: 17 to Box: 18
Date: Tues, Aug 23 2005 From: 68.17m To: 74.98m
05-SWC-016-BX17
68.17
69
69.19
70
70.71
71
72
72.39
73
74
74.98

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: PAUL BURRY

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05SWC-017

Date Hole Started:
Date Hole Finished:
Total Hole Depth (m): 88.7
Depth of Casing (m):
Core Size: HQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | | |
| 2.65 | | | | | | | | | | | | | | | | | | | | | | | | |
| 2.74 | 0.09 | 1.00 | 0.09 | 100.00 | 0.00 | 0.00 | 2 | - | 2 | R | 3.5 | 4.0 | 4.0 | 60.0 | 15.0 | 14.00 | 1.0 | 2.0 | 14.00 | 1.0 | 2.0 | 0.13 | | |
| 3.66 | 0.92 | 2.00 | 0.70 | 76.09 | 0.26 | 28.26 | 6 | 3 | 2 | R | 3.5 | 4.0 | 5.0 | 60.0 | 20.0 | 12.00 | 1.0 | 3.0 | 14.00 | 1.0 | 2.0 | 0.03 | | |
| 5.18 | 1.52 | 3.00 | 1.20 | 78.95 | 0.00 | 0.00 | 4 | 99 | 4 | R | 1.0 | - | - | - | - | 0.00 | 1.0 | 12.0 | 0.00 | 1.0 | 12.0 | 0.21 | | |
| 6.71 | 1.53 | 4.00 | 1.20 | 78.43 | 0.00 | 0.00 | 99 | 99 | 4 | R | 2.0 | - | - | - | - | 0.00 | 1.0 | 12.0 | 12.00 | 1.0 | 4.0 | 0.2 | | |
| 8.23 | 1.52 | 5.00 | 1.42 | 93.42 | 0.00 | 0.00 | 99 | 99 | 4 | R | 2.0 | - | - | - | - | 0.00 | 1.0 | 12.0 | 0.00 | 1.0 | 12.0 | 0.06 | | |
| 9.75 | 1.52 | 6.00 | 1.53 | 100.66 | 0.82 | 53.95 | 15 | 99 | 4.5 | R | 2.0 | 6.0 | 6.0 | 50.0 | 22.0 | 0.00 | 1.0 | 6.0 | 12.00 | 1.0 | 4.0 | 0.01 | | |
| 11.28 | 1.53 | 7.00 | 1.50 | 98.04 | 0.35 | 22.88 | 15 | 99 | 4.5 | R | 2.0 | 6.0 | 6.0 | 50.0 | 22.0 | 12.00 | 1.0 | 6.0 | 12.00 | 1.0 | 4.0 | 0.26 | | |
| 12.80 | 1.52 | 8.00 | 1.35 | 88.82 | 0.00 | 0.00 | 99 | 99 | 4.5 | R | 2.0 | - | - | - | - | 0.00 | 1.0 | 6.0 | 0.00 | 1.0 | 6.0 | 0.01 | | |
| 14.02 | 1.22 | 9.00 | 1.20 | 98.36 | 0.00 | 0.00 | 14 | 2 | 4 | R | 2.5 | 9.0 | 8.0 | 72.0 | 135.0 | 12.00 | 1.0 | 6.0 | 12.00 | 1.0 | 6.0 | 0.1 | | |
| 15.54 | 1.52 | 10.00 | 1.42 | 93.42 | 0.44 | 28.95 | 14 | 3 | 4 | R | 2.0 | 9.0 | 5.0 | 60.0 | 150.0 | 12.00 | 1.0 | 4.0 | 4.00 | 2.0 | 3.0 | 1.73 | | |
| 17.07 | 1.53 | 11.00 | 1.46 | 95.42 | 0.39 | 25.49 | 17 | 3 | 4 | R | 2.0 | 9.0 | 5.0 | 35.0 | 135.0 | 12.00 | 1.0 | 4.0 | 12.00 | 1.0 | 2.0 | 0 | | |
| 18.74 | 1.67 | 12.00 | 1.53 | 91.62 | 0.75 | 44.91 | 16 | 1 | 4 | R | 2.0 | 12.0 | 4.0 | 35.0 | 135.0 | 14.00 | 1.0 | 2.0 | 16.00 | 1.0 | 2.0 | 0.06 | | |
| 20.27 | 1.53 | 13.00 | 1.80 | 117.65 | 0.84 | 54.90 | 14 | 1 | 3.5 | R | 3.0 | 12.0 | 4.0 | 25.0 | 120.0 | 14.00 | 1.0 | 3.0 | 16.00 | 1.0 | 2.0 | 0.05 | | |
| 21.95 | 1.68 | 14.00 | 1.50 | 89.29 | 0.82 | 48.81 | 12 | 2 | 3.5 | R | 3.0 | 9.0 | 4.0 | 22.0 | 125.0 | 12.00 | 1.0 | 4.0 | 16.00 | 1.0 | 2.0 | 0.21 | | |
| 23.47 | 1.52 | 15.00 | 1.48 | 97.37 | 0.74 | 48.68 | 14 | 1 | 3 | R | 3.0 | 9.0 | 5.0 | 30.0 | 115.0 | 14.00 | 1.0 | 3.0 | 16.00 | 1.0 | 3.0 | 0.23 | | |
| 24.99 | 1.52 | 16.00 | 1.22 | 80.26 | 0.26 | 17.11 | 22 | 4 | 3 | R | 3.0 | 12.0 | 4.0 | 25.0 | 120.0 | 12.00 | 1.0 | 3.0 | 14.00 | 2.0 | 2.0 | 0.1 | | |
| 26.52 | 1.53 | 17.00 | 1.55 | 101.31 | 0.24 | 15.69 | 15 | 3 | 3 | R | 3.0 | 12.0 | 4.0 | 30.0 | 90.0 | 12.00 | 1.0 | 6.0 | 12.00 | 1.0 | 3.0 | 0.08 | | |
| 28.04 | 1.52 | 18.00 | 1.43 | 94.08 | 0.00 | 0.00 | 14 | 2 | 3 | R | 3.0 | 12.0 | 5.0 | 22.0 | 85.0 | 12.00 | 1.0 | 6.0 | 12.00 | 1.0 | 3.0 | 0 | | |
| 29.57 | 1.53 | 19.00 | 1.20 | 78.43 | 1.03 | 67.32 | 6 | 2 | 3 | R | 3.0 | 6.0 | 4.0 | 68.0 | 158.0 | 12.00 | 1.0 | 4.0 | 12.00 | 1.0 | 4.0 | 0.15 | | |
| 31.09 | 1.52 | 20.00 | 1.36 | 89.47 | 0.79 | 51.97 | 10 | 3 | 3 | R | 3.0 | 6.0 | 3.0 | 65.0 | 152.0 | 12.00 | 1.0 | 3.0 | 14.00 | 1.0 | 2.0 | 0.03 | | |
| 32.61 | 1.52 | 21.00 | 1.45 | 95.39 | 1.19 | 78.29 | 7 | 2 | 3 | R | 3.0 | 6.0 | 4.0 | 60.0 | 150.0 | 14.00 | 1.0 | 2.0 | 18.00 | 1.0 | 2.0 | 0.03 | | |
| 34.14 | 1.53 | 22.00 | 1.41 | 92.16 | 0.94 | 61.44 | 8 | 2 | 3 | R | 3.0 | 6.0 | 4.0 | 80.0 | 150.0 | 12.00 | 1.0 | 4.0 | 14.00 | 1.0 | 2.0 | 0.01 | | |
| 35.66 | 1.52 | 23.00 | 1.52 | 100.00 | 1.13 | 74.34 | 10 | 1 | 3 | R | 3.5 | 6.0 | 5.0 | 80.0 | 152.0 | 16.00 | 1.0 | 2.0 | 16.00 | 1.0 | 1.0 | 0.16 | | |
| 37.19 | 1.53 | 24.00 | 1.42 | 92.81 | 0.94 | 61.44 | 14 | 1 | 2.5 | R | 3.5 | 6.0 | 4.0 | 35.0 | 70.0 | 18.00 | 1.0 | 2.0 | 20.00 | 1.0 | 2.0 | 0.15 | | |
| 38.71 | 1.52 | 25.00 | 1.33 | 87.50 | 0.93 | 61.18 | 12 | 2 | 2.5 | R | 3.5 | 9.0 | 4.0 | 35.0 | 72.0 | 12.00 | 1.0 | 4.0 | 16.00 | 1.0 | 2.0 | 0.03 | | |
| 40.23 | 1.52 | 26.00 | 1.54 | 101.32 | 0.73 | 48.03 | 10 | 2 | 2.5 | R | 4.0 | 12.0 | 4.0 | 45.0 | 135.0 | 12.00 | 1.0 | 4.0 | 12.00 | 1.0 | 2.0 | 0.42 | | |
| 41.76 | 1.53 | 27.00 | 1.47 | 96.08 | 1.32 | 86.27 | 11 | 1 | 2.5 | R | 4.0 | 9.0 | 4.0 | 80.0 | 147.0 | 14.00 | 2.0 | 2.0 | 14.00 | 3.0 | 1.0 | 1.17 | | |
| 43.28 | 1.52 | 28.00 | 1.43 | 94.08 | 1.16 | 76.32 | 8 | 2 | 2 | R | 4.0 | 9.0 | 3.0 | 45.0 | 110.0 | 16.00 | 1.0 | 1.0 | 18.00 | 2.0 | 1.0 | 0.18 | | |
| 44.81 | 1.53 | 29.00 | 1.52 | 99.35 | 1.42 | 92.81 | 7 | 1 | 2 | R | 4.0 | 9.0 | 4.0 | 45.0 | 115.0 | 16.00 | 2.0 | 1.0 | 18.00 | 2.0 | 1.0 | 0.5 | | |
| 46.33 | 1.52 | 30.00 | 1.52 | 100.00 | 1.42 | 93.42 | 5 | 2 | 2 | R | 4.0 | 4.0 | 8.0 | 90.0 | 150.0 | 16.00 | 2.0 | 1.0 | 16.00 | 3.0 | 1.0 | 5.51 | | |
| 47.85 | 1.52 | 31.00 | 1.52 | 100.00 | 0.82 | 53.95 | 13 | 3 | 2 | R | 4.0 | 4.0 | 8.0 | 45.0 | 105.0 | 12.00 | 3.0 | 2.0 | 16.00 | 3.0 | 2.0 | 1.88 | | |
| 49.38 | 1.53 | 32.00 | 1.55 | 101.31 | 0.92 | 60.13 | 15 | 2 | 2 | R | 4.0 | 4.0 | 7.0 | 30.0 | 105.0 | 16.00 | 3.0 | 2.0 | 16.00 | 3.0 | 2.0 | 27 | | |
| 50.90 | 1.52 | 33.00 | 1.58 | 103.95 | 0.72 | 47.37 | 17 | 1 | 2 | R | 4.0 | 6.0 | 7.0 | 35.0 | 110.0 | 16.00 | 3.0 | 1.0 | 18.00 | 3.0 | 1.0 | 13.5 | | |
| 52.43 | 1.53 | 34.00 | 1.44 | 94.12 | 1.09 | 71.24 | 6 | 3 | 2 | R | 4.0 | 6.0 | 6.0 | 30.0 | 112.0 | 16.00 | 3.0 | 1.0 | 18.00 | 3.0 | 1.0 | 9.57 | | |
| 53.95 | 1.52 | 35.00 | 1.48 | 97.37 | 0.98 | 64.47 | 15 | 4 | 2 | R | 4.0 | 6.0 | 8.0 | 30.0 | 110.0 | 18.00 | 3.0 | 1.0 | 20.00 | 3.0 | 1.0 | 0.72 | | |
| 55.47 | 1.52 | 36.00 | 1.54 | 101.32 | 0.92 | 60.53 | 13 | 1 | 2 | R | 4.0 | 9.0 | 8.0 | 55.0 | 125.0 | 20.00 | 1.5 | 2.0 | 22.00 | 3.0 | 1.0 | 0.21 | | |
| 57.00 | 1.53 | 37.00 | 1.47 | 96.08 | 1.30 | 84.97 | 9 | 1 | 2 | R | 4.0 | 2.0 | 8.0 | 50.0 | - | 20.00 | 1.5 | 2.0 | 20.00 | 1.5 | 1.0 | 0.6 | | |
| 58.52 | 1.52 | 38.00 | 1.52 | 100.00 | 1.51 | 99.34 | 5 | 1 | 2 | R | 4.0 | 2.0 | 4.0 | 50.0 | - | 22.00 | 3.0 | 1.0 | 22.00 | 3.0 | 1.0 | 5.44 | | |
| 60.05 | 1.53 | 39.00 | 1.54 | 100.65 | 1.41 | 92.16 | 8 | 2 | 2 | R | 4.0 | 2.0 | 8.0 | 48.0 | - | 22.00 | 3.0 | 1.0 | 22.00 | 3.0 | 1.0 | 422 | | |
| 61.57 | 1.52 | 40.00 | 1.49 | 98.03 | 1.30 | 85.53 | 5 | 2 | 2 | R | 4.0 | 3.0 | 8.0 | 50.0 | - | 22.00 | 2.0 | 1.0 | 22.00 | 3.0 | 1.0 | 116 | | |

## POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Fri, Aug 26th 2005

Recorded by: Paul Burry

Project Number: _____ 05SWC-017

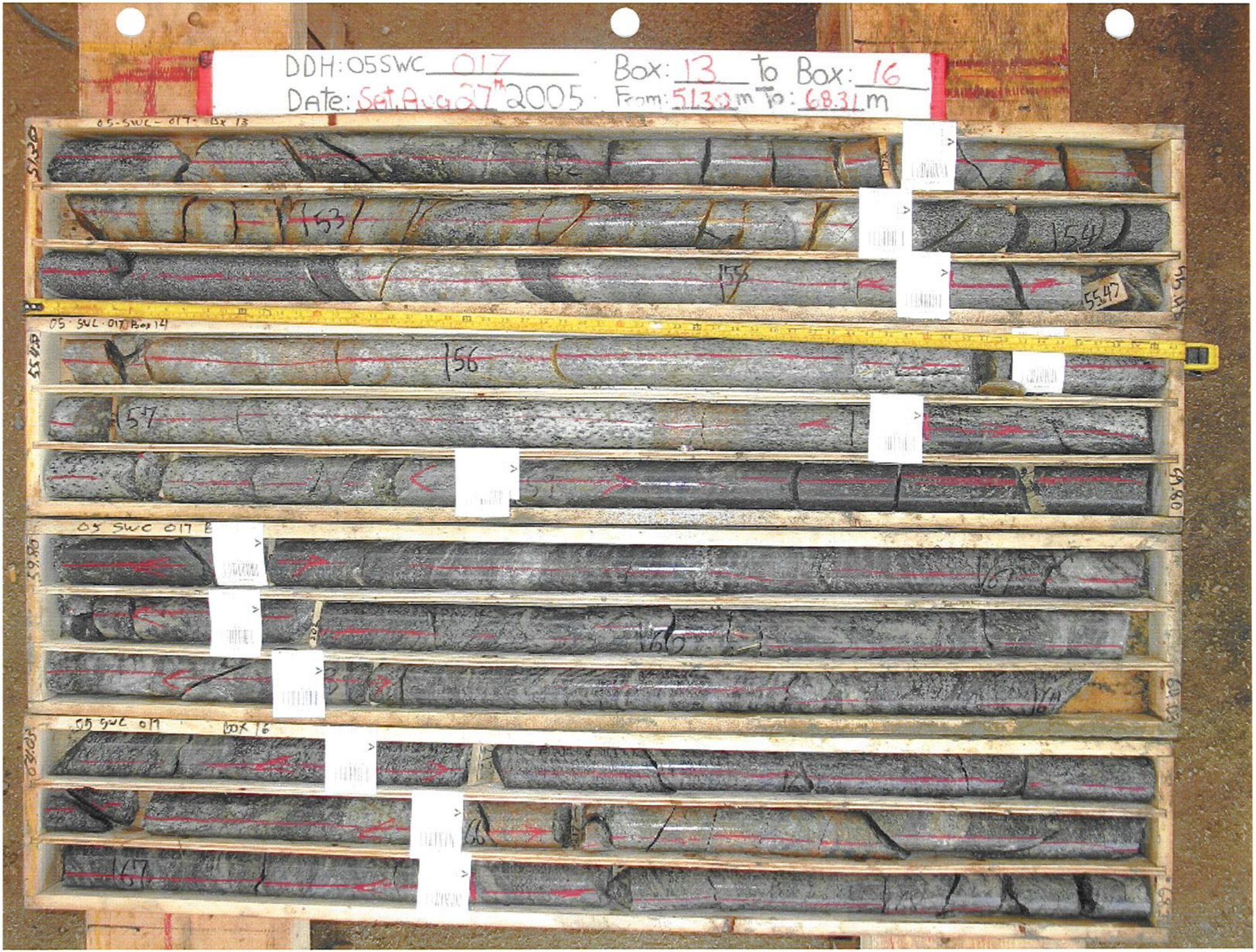
| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 3 | A | - | - | HQ | - | INTERVAL TOO BROKEN |
| 3 | D | - | - | HQ | - | INTERVAL TOO BROKEN |
| 9 | A | - | - | HQ | - | INTERVAL TOO BROKEN |
| 9 | D | - | - | HQ | - | INTERVAL TOO BROKEN |
| 12 | A | - | - | HQ | - | INTERVAL TOO BROKEN |
| 12 | D | - | - | HQ | - | INTERVAL TOO BROKEN |
| 17 | A | - | 34 | HQ | 1260 | |
| 17 | D | - | - | HQ | 3400 | |
| 21 | A | - | | HQ | 5000 | |
| 21 | D | - | - | HQ | 3500 | |
| 25 | A | - | 32 | HQ | 1140 | |
| 25 | D | - | - | HQ | 2740 | |
| 28 | A | - | 35 | HQ | 1000 | |
| 28 | D | - | - | HQ | 1800 | |
| 31 | A | - | 34 | HQ | 800 | |
| 31 | D | - | - | HQ | 1020 | |
| 36 | A | - | 53 | HQ | 7660 | |
| 36 | D | - | - | HQ | 9140 | |
| 42 | A | - | 45 | HQ | 4780 | |
| 42 | D | - | - | HQ | 10280 | |
| 45 | A | - | 59 | HQ | 13680 | |
| 45 | D | - | - | HQ | 17600 | |
| 48 | A | - | 46 | HQ | 5300 | |
| 48 | D | - | - | HQ | 5980 | |
| 53 | A | - | 40 | HQ | 13820 | |
| 53 | D | - | - | HQ | 15620 | |
| 58 | A | - | 41 | HQ | 14420 | |
| 58 | D | - | - | HQ | 5840 | |
| 62 | A | - | 45 | HQ | OFF SCALE | |
| 62 | D | - | - | HQ | OFF SCALE | |
| 66 | A | - | 22 | HQ | 7060 | |
| 66 | D | - | - | HQ | 11540 | |
| 71 | A | - | 56 | HQ | 8460 | |
| 71 | D | - | - | HQ | 12200 | |
| 73 | A | II | 18 | HQ | 9200 | |
| 73 | D | L | - | HQ | 8840 | |
| 77 | A | II | 42 | HQ | 5040 | |
| 77 | D | L | - | HQ | 2240 | |
| 81 | A | L | 55 | HQ | 9860 | |
| 81 | D | II | - | HQ | 11920 | |
| 88 | A | - | 45 | HQ | 16120 | |
| 88 | D | - | - | HQ | OFF SCALE | |
| 90 | A | - | 25 | HQ | 6260 | |
| 90 | D | - | - | HQ | OFF SCALE | END OF HOLE 017 |

17.01
15.54
11.38
5.88
5.71

DDH: 05SWC 017
Date: Sat, Aug 27th 2005
Box: 5 to Box: 8
From: 18.74 m To: 34.50 m
05 SWC 017 BOX5
05 SWC 017 BOX7
05-SWC-017-BX8
18.74
22.88
26.52
30.20
34.50
19
20
22
23
24
25
26
28
29
29.57
30
31.00
34

DDH: 05SWC-017 Box: 9 to Box: 12

Date: Sept 8 & 27th 2005 From: 34.50m To: 51.35m


DDH: 05SWC 017 Box: 13 to Box: 16
Date: Sat, Aug 27th 2005 From: 51.30 m To: 68.31 m
05-SWC-017- Bx 13
05 SWC 017 Box 14
05 SWC 017 B
05 SWC 017 Box 16

DDH: 05SWC 017 Box: 17 to Box: 20
Date: Sat. Aug 27th 2005 From: 68.31 m To: 84.92 m
05 SWC 017 BOX-17
05 SWC 017 BOX 18
7833

DDH: 05SWC 017 Box: 21 to Box: 22
Date: Sat. Aug 27th 2005 From: 84.92 m To: 91.74 m
05-SWC-017-BOX 21
05-SWC-017-BOX 22

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 018

Date Hole Started:
Date Hole Finished:
Total Hole Depth (m):
Depth of Casing (m): 6
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 6.50 | | | | | | | | | | | | | | | | | | | | | | | Overburden (no measurments taken) |
| 6.71 | 0.21 | 1.00 | | | 0.00 | 0.00 | | | | | | | | | | | | | | | | 0 | Overburden (no measurments taken) |
| 8.23 | 1.52 | 2.00 | | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | -0.16 | Overburden (no measurments taken) |
| 13.41 | 5.18 | 3.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | 0.09 | Overburden (no measurments taken) |
| 14.94 | 1.53 | 4.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | 0.1 | Overburden (no measurments taken) |
| 15.85 | 0.91 | 5.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | 0.16 | Overburden (no measurments taken) |
| 18.90 | 3.05 | 6.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | 0.76 | Overburden (no measurments taken) |
| 21.95 | 3.05 | 7.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | 0.54 | Overburden (no measurments taken) |
| 22.86 | 0.91 | 8.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | 3.25 | Overburden (no measurments taken) |
| 24.08 | 1.22 | 9.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | 0.1 | Overburden (no measurments taken) |
| 24.99 | 0.91 | 10.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | 0.36 | Overburden (no measurments taken) |
| 26.52 | 1.53 | 11.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | 1.22 | Overburden (no measurments taken) |
| 28.04 | 1.52 | 12.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | 0.31 | Overburden (no measurments taken) |
| 29.57 | 1.53 | 13.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | 0.2 | Overburden (no measurments taken) |
| 31.09 | 1.52 | 14.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | 6.31 | Overburden (no measurments taken) |
| 32.61 | 1.52 | 15.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | 0.27 | Overburden (no measurments taken) |
| 34.14 | 1.53 | 16.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | 0.1 | Overburden (no measurments taken) |
| 35.66 | 1.52 | 17.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | 0.2 | Overburden (no measurments taken) |
| 37.19 | 1.53 | 18.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | 0.75 | Overburden (no measurments taken) |
| 38.71 | 1.52 | 19.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | 0.05 | Overburden (no measurments taken) |
| 39.32 | 0.61 | 20.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | 0.05 | Overburden (no measurments taken) |
| 40.54 | 1.22 | 21.00 | 0.64 | 52.46 | 0.00 | 0.00 | 8 | 0 | W4 | R | 1.0 | 6.0 | 6.0 | 40.0 | 65.0 | 0.0 | 1 | 6 | 12 | 1 | 4 | 0.18 | |
| 41.45 | 0.91 | 22.00 | 0.69 | 75.82 | 0.00 | 0.00 | 1 | 0 | W4 | R | 1.0 | 20.0 | 2.0 | - | - | 0.0 | 1 | 6 | 12 | 1 | 4 | 0.07 | |
| 41.76 | 0.31 | 23.00 | 0.58 | 187.10 | 0.00 | 0.00 | 9999 | 9999 | W5.5 | R | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.01 | |
| 42.37 | 0.61 | 24.00 | 0.27 | 44.26 | 0.00 | 0.00 | 9999 | 9999 | W6 | R | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.73 | |
| 42.98 | 0.61 | 25.00 | 0.66 | 108.20 | 0.00 | 0.00 | 9999 | 9999 | W5.5 | R | 1.0 | 9999.0 | 8.0 | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.21 | |
| 44.20 | 1.22 | 26.00 | 0.60 | 49.18 | 0.00 | 0.00 | 9999 | 9999 | W5.5 | R | 0.5 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.4 | |
| 45.42 | 1.22 | 27.00 | 0.28 | 22.95 | 0.00 | 0.00 | 9999 | 9999 | W6 | R | 0.5 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.69 | |
| 46.33 | 0.91 | 28.00 | 0.13 | 14.29 | 0.00 | 0.00 | 9999 | 9999 | W6 | R | 0.5 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 1.31 | |
| 47.85 | 1.52 | 29.00 | 0.60 | 39.47 | 0.00 | 0.00 | 1 | 9999 | W5 | R | 0.5 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.1 | |
| 49.07 | 1.22 | 30.00 | 0.40 | 32.79 | 0.00 | 0.00 | 9999 | 9999 | W6 | R | 0.5 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.21 | |
| 50.90 | 1.83 | 31.00 | 0.95 | 51.91 | 0.00 | 0.00 | 9999 | 9999 | W6 | R | 0.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0 | |
| 51.51 | 0.61 | 32.00 | 0.44 | 72.13 | 0.00 | 0.00 | 9999 | 9999 | W6 | S | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.07 | |
| 53.34 | 1.83 | 33.00 | 0.85 | 46.45 | 0.00 | 0.00 | 9999 | 9999 | W6 | R | 0.5 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.03 | |
| 55.47 | 2.13 | 34.00 | 1.87 | 87.79 | 0.42 | 19.72 | 15 | 4 | W5 | S | 6.0 | 0.5 | 4.0 | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.03 | |
| 57.00 | 1.53 | 35.00 | 1.26 | 82.35 | 0.12 | 7.84 | 5 | 2 | W5 | R | 0.5 | 4.0 | 9.0 | 45.0 | 140.0 | 0.0 | 1 | 6 | 6 | 1.5 | 4 | 0.25 | |
| 58.52 | 1.52 | 36.00 | 1.06 | 69.74 | 0.00 | 0.00 | 3 | 9999 | W5.5 | R | 0.5 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.38 | |
| 59.13 | 0.61 | 37.00 | 0.63 | 103.28 | 0.15 | 24.59 | 1 | 0 | W4 | R | 1.0 | 0.5 | 10.0 | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.23 | |
| 60.96 | 1.83 | 38.00 | 1.72 | 93.99 | 0.43 | 23.50 | 3 | 0 | W4 | R | 1.0 | 0.5 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0 | |
| 61.87 | 0.91 | 39.00 | 0.91 | 100.00 | 0.13 | 14.29 | 4 | 0 | W4 | R | 1.0 | 2.0 | 2.0 | 43.0 | - | 0.0 | 1 | 8 | 20 | 4 | 1 | 0.36 | |
| 63.40 | 1.53 | 40.00 | 1.12 | 73.20 | 0.11 | 7.19 | 2 | 0 | W4 | R | 1.0 | 3.0 | 1.0 | 49.0 | 56.0 | 0.0 | 1 | 6 | 17 | 1 | 2 | 0.05 | |

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Tuesday, August 30/05

Recorded by: Matthew R. Kochtubajda

Project Number: _____ 05SWC-018

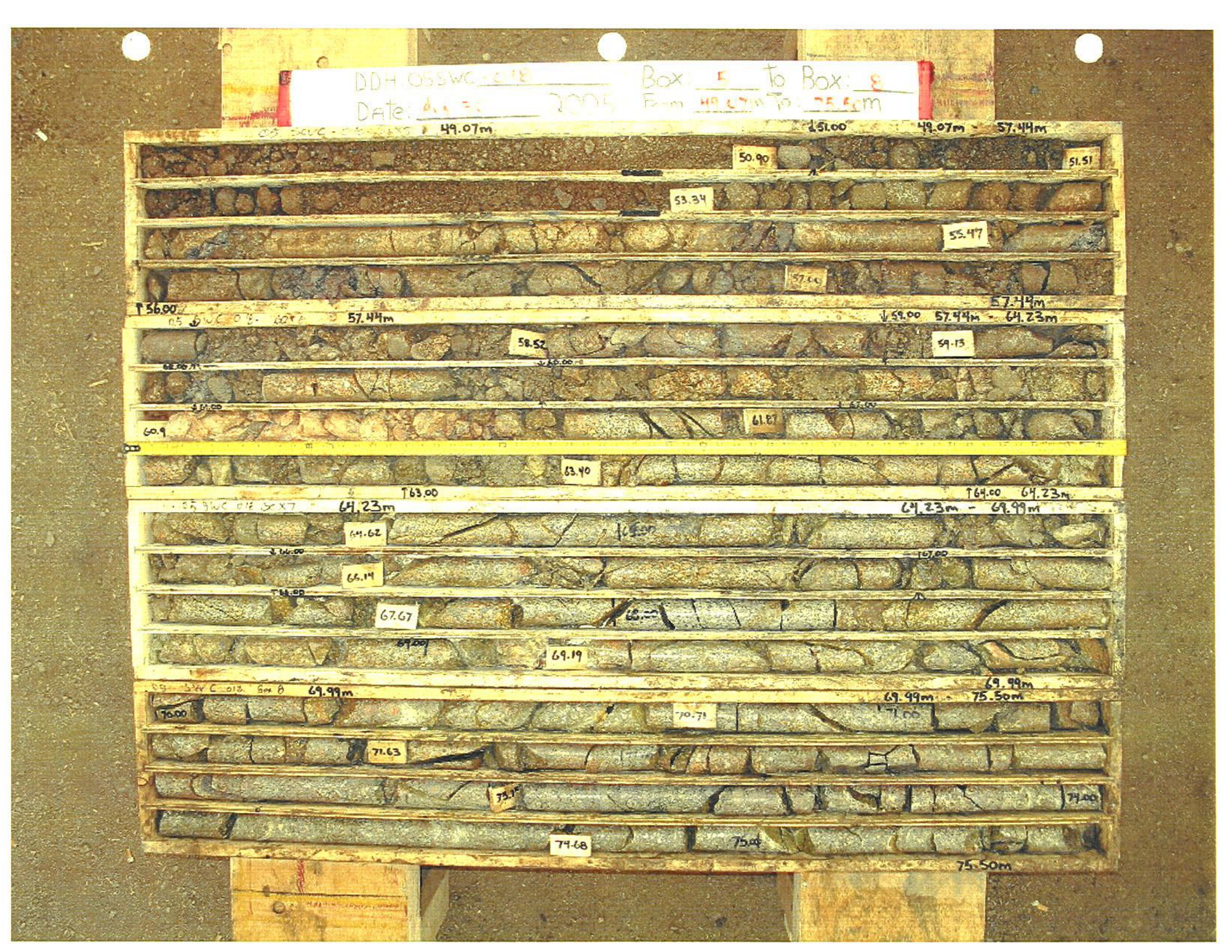
| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 59 | D | - | | NQ | 1200 | Poor test interval too broken |
| 59 | A | - | 48 | NQ | 2140 | |
| 68 | D | - | - | NQ | 9920 | |
| 68 | A | - | 39 | NQ | 6920 | |
| 73 | A | - | 36 | NQ | 3680 | Poor test broke along a fracture |
| 73 | D | - | - | NQ | 9760 | |
| 80 | D | - | - | NQ | 3680 | |
| 80 | A | - | 44 | NQ | 3480 | |
| 85 | D | - | - | NQ | 3440 | Poor test broke along a fracture |
| 85 | A | - | 38 | NQ | 3960 | |
| 89 | D | L | - | NQ | 8180 | |
| 89 | A | - | 28 | NQ | 5680 | |
| 94 | D | - | - | NQ | 17320 | ) test a number of times rock was just ch |
| 94 | A | - | 42 | NQ | 5160 | |
| 102 | D | - | - | NQ | 14000 | |
| 102 | A | - | 32.5 | NQ | 3320 | |
| 107 | D | - | - | NQ | 12680 | |
| 107 | A | - | 28.5 | NQ | 4320 | |
| 113 | D | - | - | NQ | 12980 | |
| 113 | A | - | 27.5 | NQ | 3880 | Poor test |
| 119 | D | L | - | NQ | 3160 | Poor Test |
| 119 | A | - | 27.5 | NQ | 8380 | |
| 123 | D | - | - | NQ | OFL | Lots of quartz (big crystals) |
| 123 | A | - | 33.5 | NQ | 7840 | |
| 130 | D | - | - | NQ | 7260 | |
| 130 | A | - | 28 | NQ | 8480 | |
| 135 | D | - | - | NQ | 18420 | Number of tests |
| 135 | A | - | 41 | NQ | 9160 | |
| 139 | D | - | - | NQ | 14500 | Lots of quartz (big crystals) |
| 139 | A | - | 27 | NQ | 2120 | |
| 141 | D | - | - | NQ | 14480 | Lots of quartz (big crystals) |
| 141 | A | - | 45 | NQ | 2740 | |

TYPE:

D - Diametral  L - Perpendicular

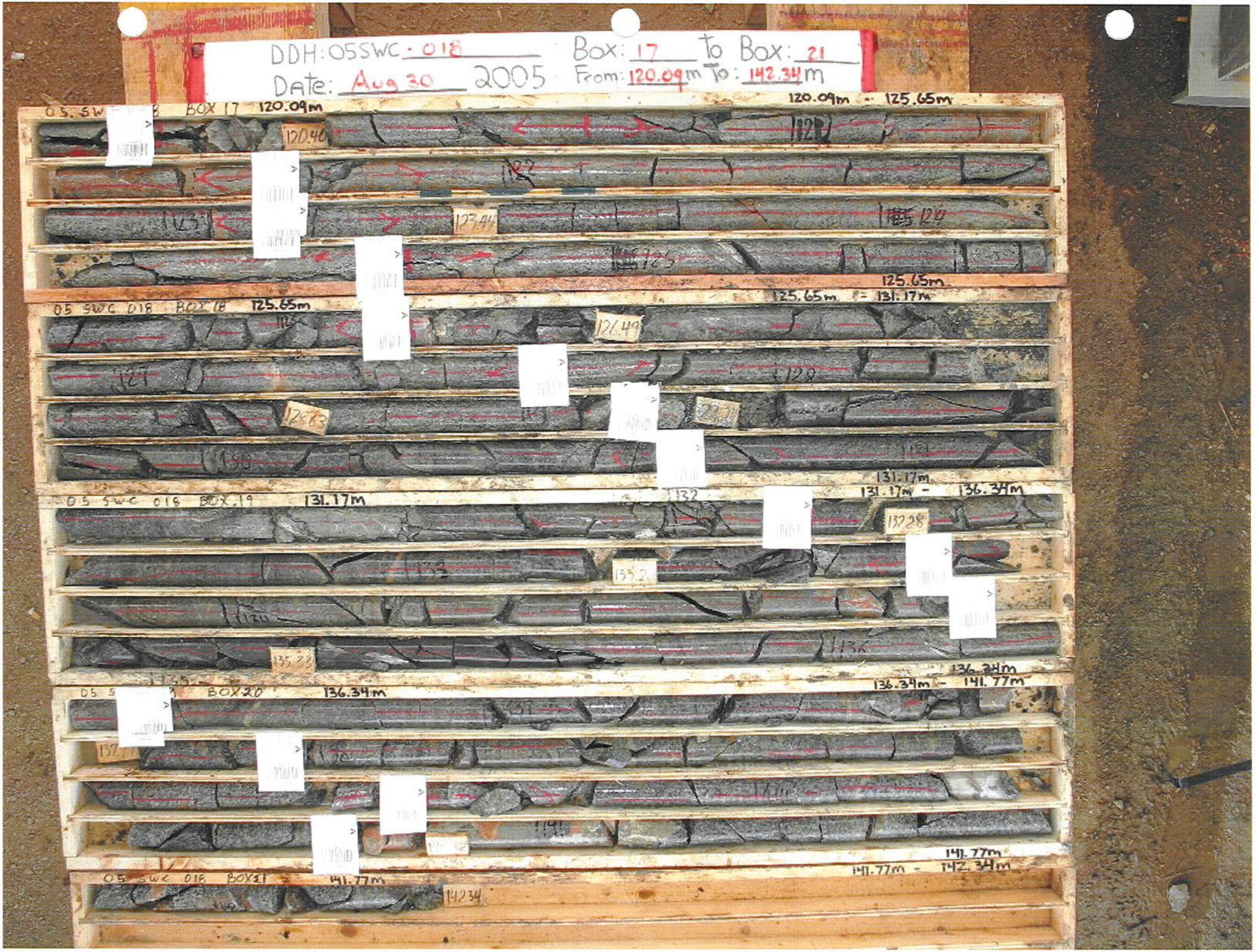
A - Axial  // - Parallel

DDH: 05SWC
Date: Aug 30 2005
Box: 1 To Box: 4
From: 0 m To: 49.07m


DDH 05SWC-018
Box: 5 to Box: 8
49.07m
51.00
49.07m - 57.44m
50.90
51.51
53.34
55.47
57.44m
56.00
57.44m
59.00
57.44m - 64.23m
58.52
59.13
60.9
61.87
63.40
63.00
64.00
64.23m
64.23m - 69.99m
64.62
66.19
67.67
69.19
69.99m
69.99m - 75.50m
70.00
70.71
71.00
71.63
74.00
74.68
75.04
75.50m

DDH: 05SWC-018 Box: 9 To Box: 12
Date: Aug 30 2005 From: 75.50m To: 97.65 m
05 SWC 018 BOX 9 75.50m
75.50m - 81.07m
77.00
78.33
79.86
81.00
81.07m
05 SWC 018 BOX 10 81.07m
81.07m - 86.66m
81.38
82.00
82.91
84.43
85.00
86.00
86.66m
05 SWC 018 BOX 11 86.66m
86.66m - 91.73m
87.49
88.39
89.31
91.14
91.73m
05 SWC 018 BOX 12 92.00
91.73m - 97.65m
93.27
95.00
95.71
97.00
97.65m

DDH: 05SWC-018 Box: 13 to Box: 16
Date: Aug 30 2005 From: 97.65m To: 120.09m
05 SWC 018 BOX 13 97.65m
97.65m - 103.40m
98.00
98.76
99.00
100.00
101.56
103.00
103.40m
05 SWC 018 BOX 14 103.40m
103.40m - 108.81m
103.91
105.00
105.77
106.00
108.81m
05 SWC 018 BOX 15 108.81m
108.81m - 114.44m
110
112
114.30
114.44m
05 SWC 018 BOX 16 114.44m
114.44m - 120.09m
116
117
117.35
119
120.09m


DDH: 05SWC - 018
Box: 17 to Box: 21
Date: Aug 30 2005
From: 120.09m To: 142.34m
120.09m - 125.65m
BOX 17 120.09m
125.65m - 131.17m
05 SWC 018 BOX 18 125.65m
131.17m - 136.34m
05 SWC 018 BOX 19 131.17m
136.34m - 141.77m
BOX 20 136.34m
141.77m - 142.34m
05 SWC 018 BOX 21 141.77m

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 019

Date Hole Started:
Date Hole Finished:
Total Hole Depth (m):
Depth of Casing (m): 21.95
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 12.19 | | | | | | | | | | | | | | | | | | | | | | | Overburden (No measurments taken) |
| 12.80 | 0.61 | 1.00 | | | 0.00 | 0.00 | | | | | | | | | | | | | | | | | Overburden (No measurments taken) |
| 14.33 | 1.53 | 2.00 | | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | | Overburden (No measurments taken) |
| 15.85 | 1.52 | 3.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | Overburden (No measurments taken) |
| 17.37 | 1.52 | 4.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | Overburden (No measurments taken) |
| 18.90 | 1.53 | 5.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | Overburden (No measurments taken) |
| 20.42 | 1.52 | 6.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | Overburden (No measurments taken) |
| 21.95 | 1.53 | 7.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | Overburden (No measurments taken) |
| 24.99 | 3.04 | 8.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | Overburden (No measurments taken) |
| 26.21 | 1.22 | 9.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | Overburden (No measurments taken) |
| 27.74 | 1.53 | 10.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | Overburden (No measurments taken) |
| 29.57 | 1.83 | 11.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | Overburden (No measurments taken) |
| 31.09 | 1.52 | 12.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | Overburden (No measurments taken) |
| 32.61 | 1.52 | 13.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | Overburden (No measurments taken) |
| 34.14 | 1.53 | 14.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | Overburden (No measurments taken) |
| 36.58 | 2.44 | 15.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | Overburden (No measurments taken) |
| 38.10 | 1.52 | 16.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | Overburden (No measurments taken) |
| 44.20 | 6.10 | 17.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | Overburden (No measurments taken) |
| 45.72 | 1.52 | 18.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | Overburden (No measurments taken) |
| 46.94 | 1.22 | 19.00 | 0.88 | 72.13 | 0.15 | 12.30 | 5 | 0 | W5.5 | R | 1.0 | 2.0 | 4.0 | 74.0 | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.23 | VERY WEATHERED/ BRITTLE |
| 47.55 | 0.61 | 20.00 | 0.86 | 140.98 | 0.00 | 0.00 | 2 | 0 | W5.5 | R | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.07 | |
| 49.07 | 1.52 | 21.00 | 1.53 | 100.66 | 0.58 | 38.16 | 14 | 1 | W4 | R | 2.5 | 3.0 | 2.0 | 91.0 | - | 6.0 | 1 | 6 | 14 | 1.5 | 4 | 0.82 | |
| 49.99 | 0.92 | 22.00 | 1.10 | 119.57 | 0.00 | 0.00 | 4 | 0 | W4 | R | 2.5 | 2.0 | 6.0 | 89.0 | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.51 | |
| 51.21 | 1.22 | 23.00 | 1.05 | 86.07 | 0.12 | 9.84 | 6 | 0 | W4 | R | 2.5 | 3.0 | 7.0 | 86.0 | 180.0 | 0.0 | 1 | 6 | 14 | 3 | 4 | 0.54 | |
| 52.43 | 1.22 | 24.00 | 1.20 | 98.36 | 0.12 | 9.84 | 5 | 0 | W4 | R | 2.5 | 0.5 | 4.0 | - | - | 14.0 | 1.5 | 4 | 14 | 1.5 | 4 | 0.29 | |
| 53.64 | 1.21 | 25.00 | 0.92 | 76.03 | 0.13 | 10.74 | 8 | 0 | W4 | R | 2.5 | 3.0 | 2.0 | 54.0 | 180.0 | 0.0 | 1 | 6 | 16 | 1.5 | 4 | 1.02 | |
| 55.17 | 1.53 | 26.00 | 1.52 | 99.35 | 0.35 | 22.88 | 12 | 1 | W4 | R | 3.0 | 6.0 | 14.0 | 65.0 | 124.0 | 14.0 | 3 | 4 | 16 | 3 | 4 | 0.89 | |
| 56.69 | 1.52 | 27.00 | 1.04 | 68.42 | 0.34 | 22.37 | 10 | 1 | W4 | R | 3.0 | 4.0 | 5.0 | 46.0 | 85.0 | 14.0 | 1.5 | 4 | 14 | 1.5 | 4 | 0.65 | |
| 58.52 | 1.83 | 28.00 | 1.82 | 99.45 | 0.70 | 38.25 | 13 | 1 | W4 | R | 3.0 | 6.0 | 4.0 | 39.0 | 141.0 | 8.0 | 1 | 8 | 16 | 3 | 4 | 1.53 | |
| 60.05 | 1.53 | 29.00 | 1.60 | 104.58 | 0.45 | 29.41 | 16 | 1 | W4 | R | 3.0 | 4.0 | 6.0 | 56.0 | 74.0 | 10.0 | 1 | 8 | 16 | 3 | 4 | 0.16 | |
| 61.57 | 1.52 | 30.00 | 1.37 | 90.13 | 0.37 | 24.34 | 16 | 1 | W2.5 | R | 3.0 | 6.0 | 6.0 | 53.0 | 65.0 | 16.0 | 3 | 2 | 16 | 3 | 2 | 0.23 | |
| 63.09 | 1.52 | 31.00 | 1.55 | 101.97 | 1.47 | 96.71 | 4 | 1 | W2 | R | 3.0 | 2.0 | 4.0 | 59.0 | - | 18.0 | 1.5 | 2 | 18 | 1.5 | 2 | 0.43 | |
| 64.62 | 1.53 | 32.00 | 1.45 | 94.77 | 1.23 | 80.39 | 9 | 3 | W2 | R | 3.0 | 4.0 | 9.0 | 54.0 | 120.0 | 18.0 | 1.5 | 2 | 18 | 1.5 | 2 | 0.64 | |
| 66.14 | 1.52 | 33.00 | 1.55 | 101.97 | 1.26 | 82.89 | 6 | 1 | W2 | R | 3.0 | 6.0 | 10.0 | 49.0 | 97.0 | 18.0 | 1.5 | 2 | 18 | 2 | 1.5 | 0.65 | |
| 69.19 | 3.05 | 34.00 | 2.94 | 96.39 | 2.58 | 84.59 | 16 | 2 | W2 | R | 3.0 | 6.0 | 5.0 | 56.0 | 121.0 | 15.0 | 1.5 | 2 | 18 | 1.5 | 2 | 9.46 | |
| 72.24 | 3.05 | 35.00 | 3.24 | 106.23 | 1.32 | 43.28 | 20 | 1 | W3 | R | 3.0 | 6.0 | 2.0 | 50.0 | 132.0 | 12.0 | 1.5 | 4 | 16 | 1 | 4 | 0.16 | |
| 73.76 | 1.52 | 36.00 | 1.58 | 103.95 | 0.36 | 23.68 | 16 | 2 | W3 | R | 3.0 | 6.0 | 4.0 | 48.0 | 142.0 | 12.0 | 3 | 3 | 16 | 1.5 | 2 | 0.16 | |
| 75.29 | 1.53 | 37.00 | 1.58 | 103.27 | 0.75 | 49.02 | 17 | 1 | W3 | R | 3.0 | 12.0 | 10.0 | 46.0 | 147.0 | 16.0 | 1.5 | 2 | 16 | 1.5 | 2 | 0.09 | |
| 78.03 | 2.74 | 38.00 | 2.77 | 101.09 | 1.51 | 55.11 | 20 | 1 | W2.5 | R | 3.0 | 12.0 | 2.0 | 74.0 | 121.0 | 8.0 | 1 | 8 | 16 | 3 | 2 | 3.45 | |
| 81.08 | 3.05 | 39.00 | 3.03 | 99.34 | 1.81 | 59.34 | 21 | 2 | W2 | R | 3.0 | 12.0 | 4.0 | 48.0 | 144.0 | 14.0 | 1.5 | 4 | 16 | 3 | 4 | 34.7 | |
| 84.12 | 3.04 | 40.00 | 3.03 | 99.67 | 2.28 | 75.00 | 19 | 2 | W2 | R | 3.0 | 6.0 | 5.0 | 50.0 | 148.0 | 12.0 | 3 | 4 | 18 | 1.5 | 2 | 4.09 | |

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Thursday, September 1, 2005

Recorded by: Matthew R. Kochtubajda

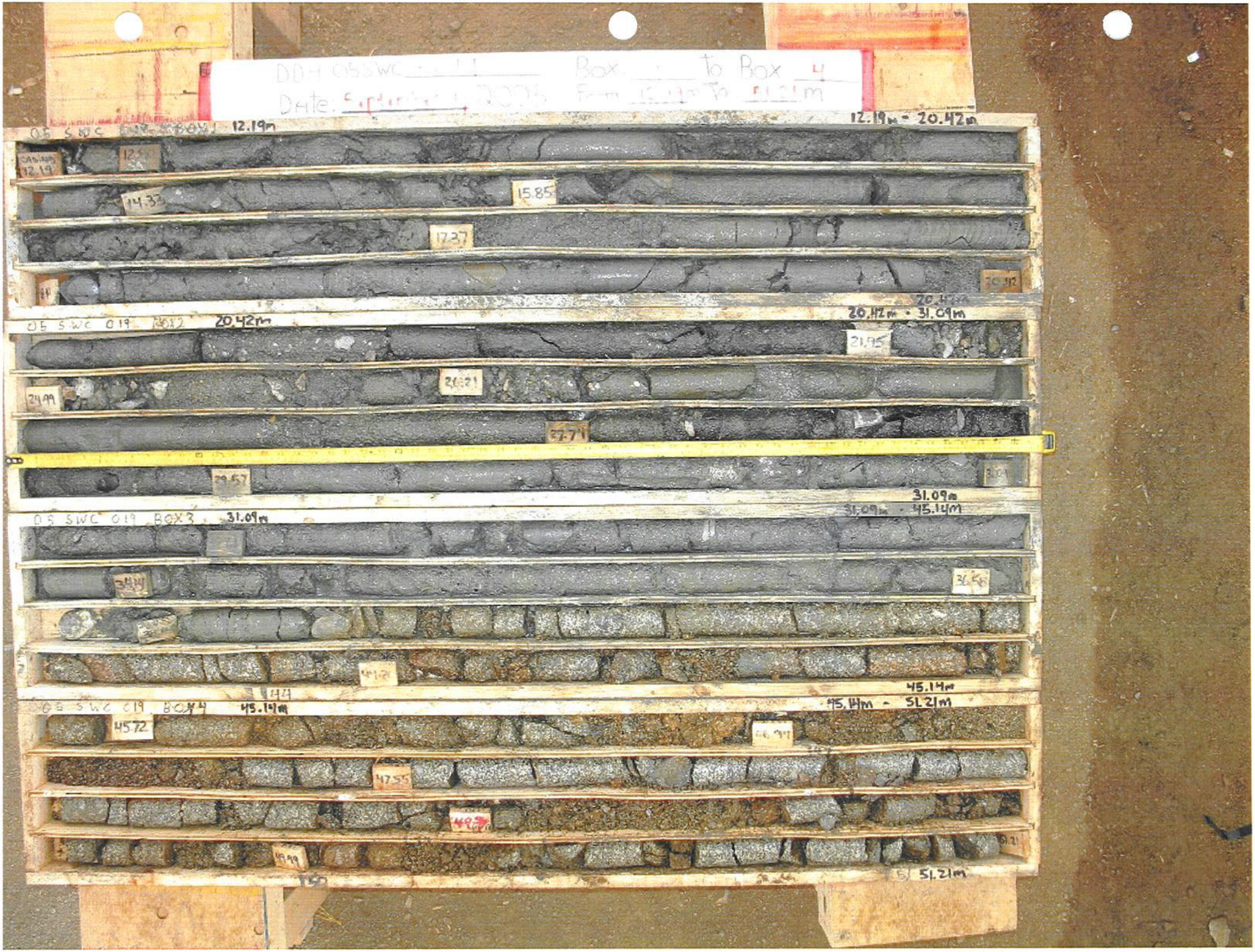
Project Number: _____ 05SWC-019

| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 50 | D | - | - | NQ | 900 | POOR TEST |
| 50 | A | - | 30 | NQ | 100 | POOR TEST |
| 54 | D | - | - | NQ | 10720 | |
| 54 | A | - | 30 | NQ | 2420 | |
| 61 | D | - | - | NQ | 9080 | |
| 61 | A | - | 45.5 | NQ | 6000 | POOR TEST ALONG FRACTURE |
| 66 | D | - | - | NQ | 4020 | |
| 66 | A | - | 37.5 | NQ | 15000 | |
| 74 | D | - | - | NQ | 2760 | POOR TEST ALONG FRACTURE |
| 74 | A | - | 43.5 | NQ | 1360 | POOR TEST ALONG FRACTURE |
| 79 | D | - | - | NQ | 9460 | LOTS OF QUARTZ |
| 79 | A | - | 47.5 | NQ | 19760 | LOTS OF QUARTZ |
| 81 | D | L | - | NQ | 5940 | POOR TEST ALONG FRACTURE |
| 81 | A | - | 44 | NQ | 14720 | LOTS OF QUARTZ |
| 88 | D | L | - | NQ | OFL | QUARTZ |
| 88 | A | - | 42.5 | NQ | 11740 | QUARTZ, CHALCOPYRITE |
| 94 | D | L | - | NQ | 3940 | |
| 94 | A | - | 42 | NQ | 6880 | |
| 100 | D | - | - | NQ | 14420 | |
| 100 | A | - | 37.5 | NQ | 14500 | |
| 103 | D | - | - | NQ | 11940 | |
| 103 | A | - | 51 | NQ | 4380 | POOR TEST ALONG FRACTURE |

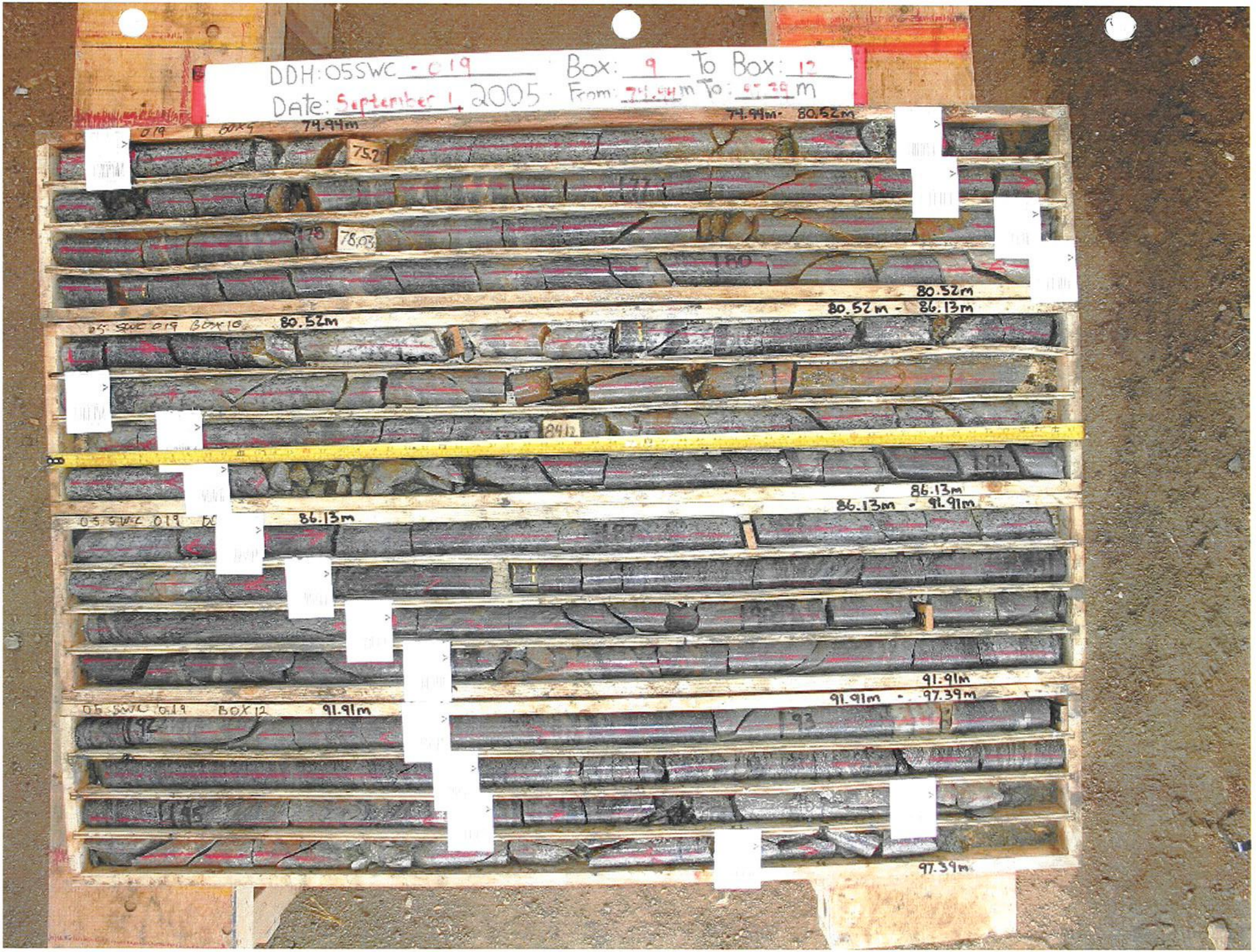
TYPE:

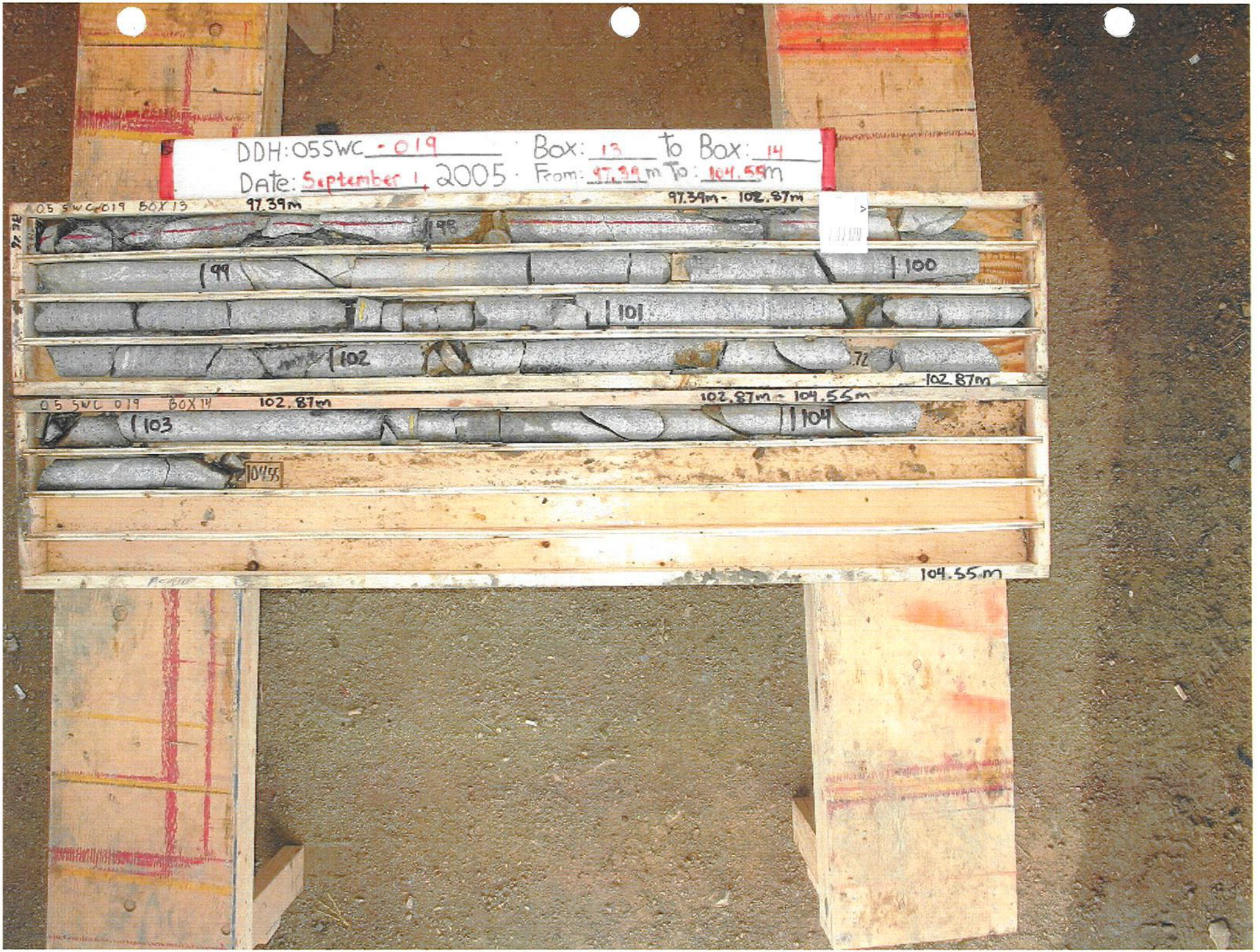
D - Diametral  L - Perpendicular

A - Axial  // - Parallel


DDH 05SWC 019 Box 1 to Box 4
Date: September 2005 From 12.19m To 51.21m
05 SWC 019 BOX1 12.19m
12.19m - 20.42m
14.37
15.85
17.37
20.42m
05 SWC 019 BOX2 20.42m
20.42m - 31.09m
21.95
24.99
27.71
29.57
31.09m
05 SWC 019 BOX3 31.09m
31.09m - 45.14m
34.44
41.28
45.14m
05 SWC 019 BOX4 45.14m
45.14m - 51.21m
45.72
47.55
51.21m

DDH: 05SWC - 019 Box: 5 To Box: 8
Date: September 1, 2005 From: 51.21m To: 74.94m
51.21m - 57.69m
57.69m - 63.41m
63.41m - 69.27m
69.27m - 74.94m
74.94m


DDH: 05SWC - 019 Box: 9 to Box: 12
Date: September 1, 2005 From: 74.94m To: 97.39m
74.94m - 80.52m
80.52m
80.52m - 86.13m
86.13m
86.13m - 91.91m
91.91m
91.91m - 97.39m
97.39m


DDH: 05SWC - 019 Box: 13 to Box: 14
Date: September 1, 2005 From: 97.39m To: 104.55m
05 SWC 019 BOX 13
97.39m
97.39m - 102.87m
99
100
101
102
102.87m
05 SWC 019 BOX 14
102.87m
102.87m - 104.55m
103
104
104.55m

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Friday, Sept 2, 2005

Recorded by: Matthew R. Kochtubajda

Project Number: _____ 05SWC-020

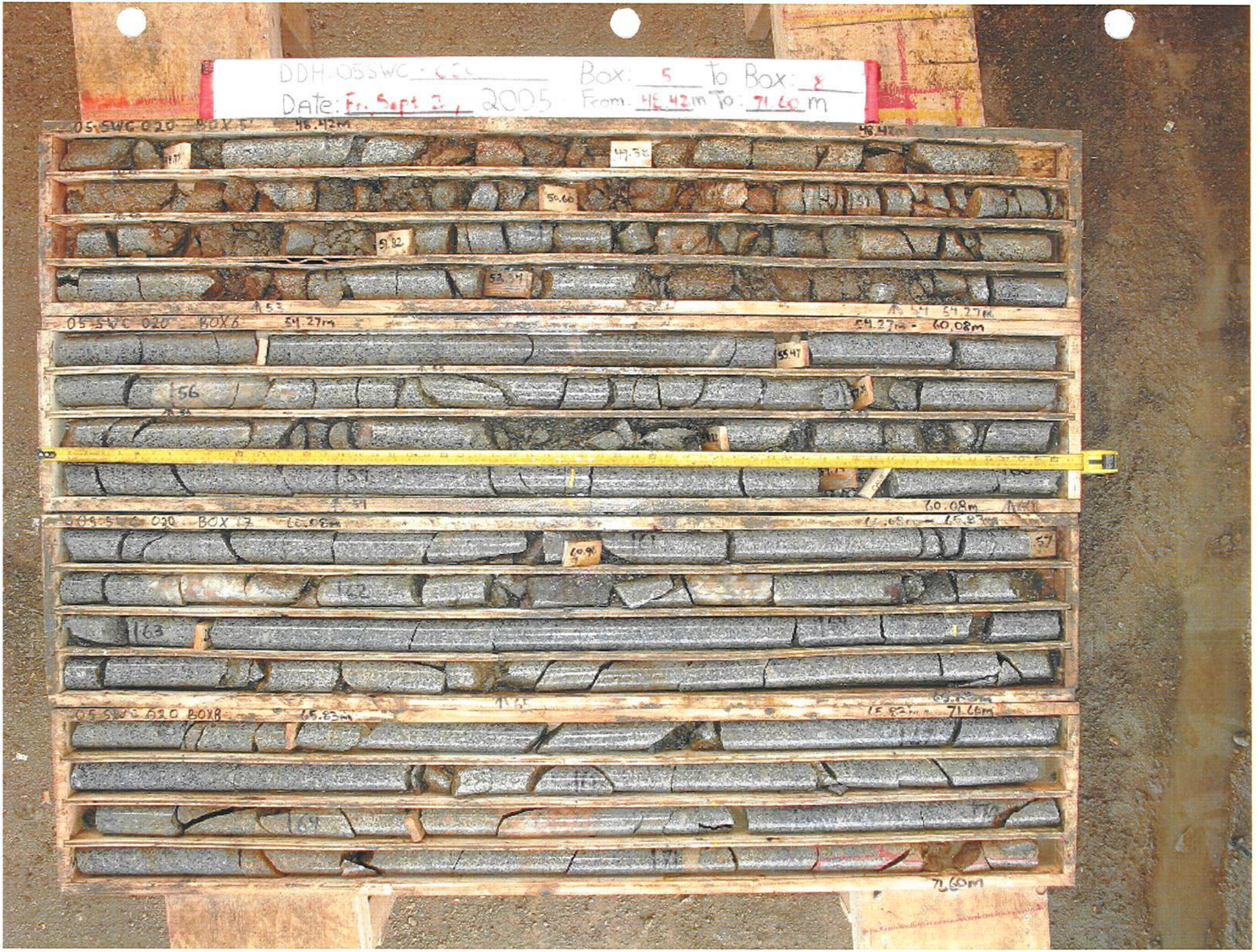
| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 52 | D | - | - | NQ | 5400 | CRS GRAINED (SUGARY) |
| 52 | A | - | 33.5 | NQ | 5900 | |
| 59 | D | - | - | NQ | 18320 | LOTS QTZ, ALONG FRACTURE |
| 59 | A | - | 38 | NQ | 12000 | |
| 64 | D | - | - | NQ | 15420 | QTZ |
| 64 | A | - | 48 | NQ | 16580 | QTZ, CRS GRAINED |
| 69 | D | - | - | NQ | 6280 | ALONG FRACTURE |
| 69 | A | - | 48 | NQ | 4440 | POOR TEST |
| 77 | D | - | - | NQ | 11780 | |
| 77 | A | - | 35 | NQ | 9420 | VISIBLE BANDS WITHIN ROCK |
| 78 | D | - | - | NQ | 11760 | |
| 78 | A | - | 36.5 | NQ | 5280 | ALONG FRACTURE |
| 87 | D | L | - | NQ | 8700 | VISIBLE SULPHIDES (CHALCOPYRITE |
| 87 | A | - | 28.5 | NQ | 16580 | BANDING WITHIN ROCK |
| 89 | D | - | - | NQ | 17240 | LOTS QTZ, MED GRAINED |
| 89 | A | - | 37 | NQ | 4560 | POOR TEST, ALONG FRACTURE |
| 95 | D | - | - | NQ | 6580 | |
| 95 | A | - | 31 | NQ | 12760 | |

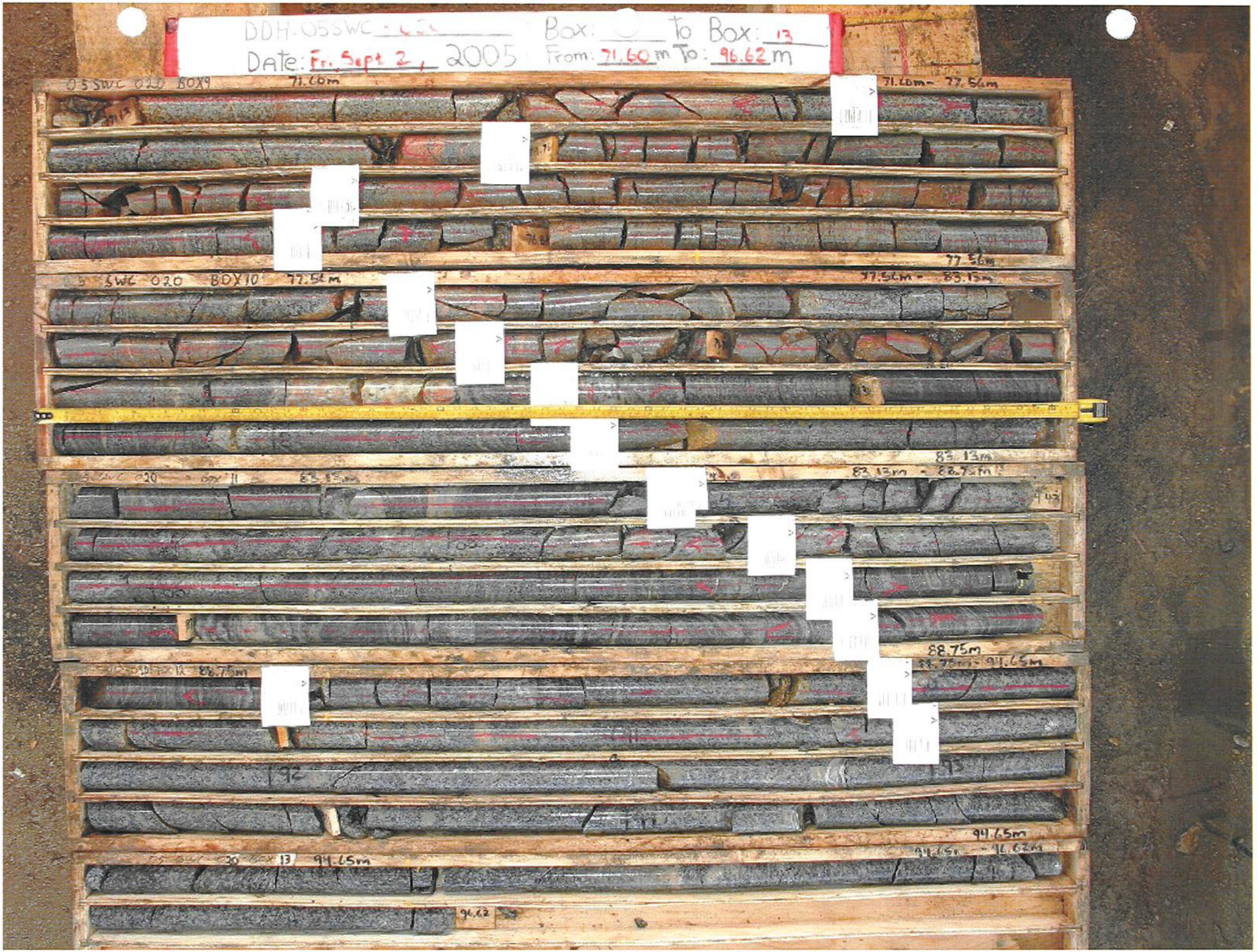
TYPE:

D - Diametral  L - Perpendicular

A - Axial  // - Parallel

Box 1 to Box 4
Date: From 15.24m to 48.42m
15.24m
22.30m
28.83m
40.37m
48.42m


DDH 05SWC
Box: 5 to Box: 8
Date: Fri, Sept 2, 2005
From: 48.42m To: 71.60 m
05 SWC 020 BOX 5 48.42m
05 SWC 020 BOX 6 54.27m
54.27m - 60.08m
60.08m
05 SWC 020 BOX 7 60.08m
05 SWC 020 BOX 8 65.83m
71.60m


DDH 05SWC
Box: to Box: 13
Date: Fr. Sept 2, 2005
From: 71.60 m To: 96.62 m
05 SWC 020 BOX9
71.60m
71.60m - 77.56m
77.56m
05 SWC 020 BOX10
77.56m
77.56m - 83.13m
83.13m
83.13m - 88.75m
88.75m
88.75m - 94.65m
94.65m
94.65m - 96.62m
96.62

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing: 6944882.6
Easting: 384617.5
Elevation: 821.2
Trend: 0
Plunge:

**Hole #** 05 SWC 021

Date Hole Started: Sunday September 4,2005
Date Hole Finished: Monday, September 5, 2005
Total Hole Depth (m): 112.47
Depth of Casing (m): 6.1
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 6.10 | | | | | | | | | | | | | | | | | | | | | | | CASING DEPTH |
| 6.71 | 0.61 | 1.00 | | | 0.00 | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 8.23 | 1.52 | 2.00 | | 0.00 | 0.00 | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 9.75 | 1.52 | 3.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 11.28 | 1.53 | 4.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 12.80 | 1.52 | 5.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 14.33 | 1.53 | 6.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 15.85 | 1.52 | 7.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 17.37 | 1.52 | 8.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 18.90 | 1.53 | 9.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 20.42 | 1.52 | 10.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 21.95 | 1.53 | 11.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 23.47 | 1.52 | 12.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 24.99 | 1.52 | 13.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 26.52 | 1.53 | 14.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 28.04 | 1.52 | 15.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 29.57 | 1.53 | 16.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 31.09 | 1.52 | 17.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 32.61 | 1.52 | 18.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 34.14 | 1.53 | 19.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 35.66 | 1.52 | 20.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 38.71 | 3.05 | 21.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 40.23 | 1.52 | 22.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 41.76 | 1.53 | 23.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 43.28 | 1.52 | 24.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 44.81 | 1.53 | 25.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 46.33 | 1.52 | 26.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 47.85 | 1.52 | 27.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 49.38 | 1.53 | 28.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 50.90 | 1.52 | 29.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 53.34 | 2.44 | 30.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 54.86 | 1.52 | 31.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 55.47 | 0.61 | 32.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 56.69 | 1.22 | 33.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 58.52 | 1.83 | 34.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 60.05 | 1.53 | 35.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 61.26 | 1.21 | 36.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 62.79 | 1.53 | 37.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 64.01 | 1.22 | 38.00 | 0.71 | 58.20 | 0.00 | 0.00 | 9999 | 9999 | W6 | S | 4.5 | 9999.0 | 9999.0 | - | - | 0.0 | 1 | 8 | 0 | 1 | 8 | 1.4 | |
| 65.53 | 1.52 | 39.00 | 1.40 | 92.11 | 0.40 | 26.32 | 8 | 0 | W4 | R | 2.5 | 3.0 | 3.0 | 43.0 | - | 0.0 | 1 | 8 | 14 | 1.5 | 3 | 0.82 | |
| 67.06 | 1.53 | 40.00 | 1.23 | 80.39 | 0.00 | 0.00 | 9999 | 9999 | W3.5 | R | 2.5 | 9999.0 | 9999.0 | - | - | 0.0 | 1 | 8 | 12 | 1.5 | 3 | 0.14 | |

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Sunday, Sept 4, 2005

Recorded by: Matthew R. Kochtubajda

Project Number: _____ 05SWC-021

| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 70 | D | - | - | NQ | 9280 | CRS GRAINED |
| 70 | A | - | 28 | NQ | 8920 | BROKE ALONG FRACTURE |
| 73 | D | - | - | NQ | 2940 | BROKE ALONG FRACTURE |
| 73 | A | - | 24 | NQ | 7280 | BROKE ALONG FRACTURE |
| 80 | D | II | - | NQ | 6720 | OKE ALONG FRACTURE (WEATHERE |
| 80 | A | - | 25.5 | NQ | 4760 | POOR TEST (ALONG FRACTURE) |
| 85 | D | - | - | NQ | 2040 | |
| 85 | A | - | 35.5 | NQ | 200 | POOR TEST (ALONG FRACTURE) |
| 90 | D | L | - | NQ | 10560 | CRYSTALINE GRAINED, BROKE II |
| 90 | A | - | 23 | NQ | 11780 | BROKE ALONG A FRACTURE |
| 95 | D | L | - | NQ | 6320 | |
| 95 | A | - | 28.5 | NQ | 4500 | BROKE ALONG A FRACTURE |
| 99 | D | - | - | NQ | 18920 | MOSTLY QTZ, CRS GRAINED |
| 99 | A | - | 25.5 | NQ | 10640 | BROKE ALONG A FRACTURE |
| 107 | D | - | - | NQ | 15820 | MOSTLY QTZ, CRS GRAINED |
| 107 | A | - | 31 | NQ | 13340 | BROKE ALONG A FRACTURE |
| 111 | D | - | - | NQ | 18420 | |
| 111 | A | - | 33 | NQ | 15800 | BROKE ALONG A FRACTURE (CRYST. QTZ) |

TYPE:

D - Diametral  L - Perpendicular

A - Axial  // - Parallel

DDH: 05SWC-021
Box: 1 to Box: 4
Date: Aug, Sept 3, 2005
From: 6.10 m To: 38.44 m
6.10m
6.10m - 17.53m
6.10
8.23
9.75
11.28
12.80
14.33
15.85
17.37
17.53m
17.53m
17.53m - 25.20m
18.90
20.42
21.95
23.47
24.99
25.20m
25.20m
25.20m - 31.46m
26.52
28.04
29.57
31.09
31.46m
31.46m
31.46m - 38.44m
32.61
34.14
35.66
38.44m

DDH: 05SWC-021
Box: 5 to Box: 8
Date: Mon, Sept. 5, 2005
From: 38.44m To: 70.86m
38.44m
38.44m - 44.90m
38.71
40.23
43.28
44.81
44.90m
44.91m - 53.44
47.85
53.34
53.44m
53.44m - 61.63m
55.47
61.63m
61.63m - 70.86m
62.79
64.01
65.53
67.06
70.86m

DDH: 05SWC-021 Box: 9 to Box: 12
DATE: Mon, Sept 5, 2005 From: 70.86m To: 93.00m
70.86m
70.86m - 76.50m
76.50m
76.50m
81.67m
81.67m - 87.21m
87.21m
87.21m - 93.00m
93.00m

DDH: 05SWC-021 Box: 13 to Box: 16
Date: Mon, Sept 5, 2005 From: 93.00m To: 112.47m
05-SWC-021 BOX 13 93.00m
93.00m - 98.61m
98.61m
05 SWC 021 BOX 14 98.61m
98.61m - 104.57m
05 SWC 021 BOX 15 104.57m
104.57m - 110.39m
05 SWC 021 BOX 16 110.39m
110.39m - 112.47m
112.47m

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing: 6944904.44
Easting: 384722.669
Elevation: 812
Trend: 0
Plunge: -90

**Hole #** 05 SWC 022

Date Hole Started: Monday, September 5, 2005
Date Hole Finished: Tuesday,September 6, 2005
Total Hole Depth (m): 107.29
Depth of Casing (m): 51.82
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 46.33 | | | | | | | | | | | | | | | | | | | | | | | OVERBURDEN NOTHING RECOVERED |
| 47.85 | 1.52 | 1.00 | 0.31 | 20.39 | 0.00 | 0.00 | 9999 | 9999 | W4 | R | 3.0 | 9999.0 | - | - | - | 0.0 | 1 | 10 | 0 | 1 | 10 | 0 | |
| 51.82 | 3.97 | 2.00 | 0.19 | 4.79 | 0.00 | 0.00 | 9999 | 9999 | - | - | - | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.29 | MOSTLY SAND (CASING DEPTH) |
| 52.73 | 0.91 | 3.00 | 0.11 | 12.09 | 0.00 | 0.00 | 9999 | 9999 | - | - | - | 9999.0 | - | - | - | 0.0 | 1 | 10 | 0 | 1 | 10 | 0.14 | BITS OF GROUND UP ROCK |
| 54.52 | 1.79 | 4.00 | 0.37 | 20.67 | 0.00 | 0.00 | 9999 | 9999 | W6 | S | 2.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.27 | |
| 55.78 | 1.26 | 5.00 | 0.51 | 40.48 | 0.00 | 0.00 | 9999 | 9999 | W6 | S | 2.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0 | |
| 57.30 | 1.52 | 6.00 | 0.35 | 23.03 | 0.00 | 0.00 | 9999 | 9999 | W6 | S | 2.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.54 | |
| 58.83 | 1.53 | 7.00 | 0.06 | 3.92 | 0.00 | 0.00 | 9999 | 9999 | W5 | R | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 10 | 0 | 1 | 10 | 0 | |
| 60.35 | 1.52 | 8.00 | 0.30 | 19.74 | 0.00 | 0.00 | 9999 | 9999 | W4 | R | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 10 | 0 | 1 | 10 | 0.4 | |
| 61.87 | 1.52 | 9.00 | 0.26 | 17.11 | 0.00 | 0.00 | 9999 | 9999 | W4 | R | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 10 | 0 | 1 | 10 | 0.03 | |
| 63.09 | 1.22 | 10.00 | 1.09 | 89.34 | 0.24 | 19.67 | 11 | 1 | W4 | R | 2.0 | 6.0 | 2.0 | 23.0 | 78.0 | 0.0 | 1 | 6 | 14 | 3 | 4 | 0 | |
| 64.62 | 1.53 | 11.00 | 1.53 | 100.00 | 0.80 | 52.29 | 14 | 1 | W3 | R | 2.5 | 9.0 | 2.0 | 45.0 | 149.0 | 14.0 | 1.5 | 4 | 14 | 1.5 | 2 | 0.8 | |
| 65.53 | 0.91 | 12.00 | 1.14 | 125.27 | 0.00 | 0.00 | 9 | 1 | W3 | R | 2.5 | 3.0 | 2.0 | 16.0 | 50.0 | 14.0 | 3 | 4 | 14 | 1.5 | 3 | 0.31 | VERY BROKEN UP INTERVAL |
| 67.06 | 1.53 | 13.00 | 0.39 | 25.49 | 0.12 | 7.84 | 2 | 0 | W3 | R | 2.5 | 0.5 | - | - | - | 0.0 | 1 | 6 | 14 | 3 | 4 | 0.27 | |
| 67.47 | 0.41 | 14.00 | 0.32 | 78.05 | 0.16 | 39.02 | 9999 | 9999 | W3.5 | R | 3.0 | 0.5 | 4.0 | 22.0 | - | 0.0 | 1 | 6 | 14 | 1.5 | 4 | 0.1 | |
| 69.19 | 1.72 | 15.00 | 0.93 | 54.07 | 0.59 | 34.30 | 6 | 0 | W3 | R | 3.0 | 6.0 | 2.0 | 26.0 | 76.0 | 0.0 | 1 | 6 | 14 | 3 | 2 | 1.02 | |
| 70.71 | 1.52 | 16.00 | 1.56 | 102.63 | 1.47 | 96.71 | 8 | 1 | W3 | R | 3.0 | 6.0 | 9.0 | 51.0 | 140.0 | 14.0 | 1.5 | 3 | 14 | 2 | 2 | 0.2 | |
| 72.24 | 1.53 | 17.00 | 1.53 | 100.00 | 0.80 | 52.29 | 19 | 1 | W3 | R | 2.5 | 6.0 | 4.0 | 11.0 | 56.0 | 0.0 | 1 | 8 | 14 | 3 | 2 | 0 | |
| 72.54 | 0.30 | 18.00 | 0.30 | 100.00 | 0.00 | 0.00 | 5 | 0 | W3 | R | 2.5 | 0.5 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.18 | ISIBLE MALACHITE (BROKEN UP INTERVAL) |
| 74.07 | 1.53 | 19.00 | 1.50 | 98.04 | 0.11 | 7.19 | 10 | 1 | W3.5 | R | 2.5 | 6.0 | 3.0 | 44.0 | 180.0 | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.07 | VERY BROKEN UP INTERVAL |
| 75.59 | 1.52 | 20.00 | 1.50 | 98.68 | 0.11 | 7.24 | 20 | 1 | W3.5 | R | 2.5 | 6.0 | 10.0 | 68.0 | 180.0 | 0.0 | 1 | 6 | 13 | 3 | 2 | 0.05 | ery broken up interval ( malachite on joint walls) |
| 77.11 | 1.52 | 21.00 | 1.37 | 90.13 | 0.00 | 0.00 | 22 | 1 | W3.5 | R | 2.5 | 6.0 | 8.0 | 43.0 | 126.0 | 0.0 | 1 | 8 | 14 | 3 | 3 | 0.8 | VERY BROKEN UP INTERVAL |
| 78.64 | 1.53 | 22.00 | 1.44 | 94.12 | 0.00 | 0.00 | 13 | 1 | W3.5 | R | 2.5 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.58 | VERY BROKEN UP INTERVAL |
| 80.16 | 1.52 | 23.00 | 1.25 | 82.24 | 0.00 | 0.00 | 23 | 1 | W3.5 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.78 | VERY BROKEN UP INTERVAL |
| 81.69 | 1.53 | 24.00 | 1.45 | 94.77 | 0.00 | 0.00 | 15 | 1 | W3.5 | R | 3.0 | 6.0 | 9.0 | 51.0 | 115.0 | 14.0 | 3 | 4 | 14 | 3 | 2 | 0 | ery broken up interval ( malachite on joint walls) |
| 83.21 | 1.52 | 25.00 | 1.47 | 96.71 | 0.55 | 36.18 | 11 | 1 | W3 | R | 3.0 | 6.0 | 2.0 | 61.0 | 116.0 | 0.0 | 1 | 6 | 16 | 1 | 3 | 1.2 | |
| 84.73 | 1.52 | 26.00 | 1.45 | 95.39 | 0.00 | 0.00 | 17 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 53.0 | 146.0 | 14.0 | 3 | 4 | 16 | 3 | 4 | 1.44 | |
| 86.26 | 1.53 | 27.00 | 1.31 | 85.62 | 0.37 | 24.18 | 12 | 1 | W3 | R | 3.0 | 12.0 | 10.0 | 47.0 | 122.0 | 14.0 | 3 | 4 | 14 | 1 | 2 | 0.4 | |
| 87.78 | 1.52 | 28.00 | 1.52 | 100.00 | 0.00 | 0.00 | 9999 | 9999 | W3.5 | R | 3.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 14 | 3 | 4 | 0.16 | VERY BROKEN UP INTERVAL |
| 89.31 | 1.53 | 29.00 | 1.60 | 104.58 | 0.43 | 28.10 | 20 | 1 | W3.5 | R | 3.0 | 3.0 | 16.0 | 41.0 | - | 0.0 | 1 | 6 | 14 | 3 | 2 | 0.32 | BROKEN INTERVAL |
| 90.83 | 1.52 | 30.00 | 1.52 | 100.00 | 0.45 | 29.61 | 17 | 1 | W3.5 | R | 3.0 | 6.0 | 2.0 | 36.0 | 127.0 | 14.0 | 1 | 4 | 14 | 1 | 4 | 0.6 | |
| 92.35 | 1.52 | 31.00 | 1.52 | 100.00 | 0.67 | 44.08 | 13 | 1 | W3.5 | R | 3.0 | 6.0 | 2.0 | 59.0 | 180.0 | 14.0 | 1 | 4 | 14 | 1 | 4 | 53.8 | |
| 93.88 | 1.53 | 32.00 | 1.50 | 98.04 | 0.00 | 0.00 | 14 | 1 | W3.5 | R | 3.0 | 6.0 | 4.0 | 45.0 | 180.0 | 0.0 | 1 | 6 | 14 | 1.5 | 4 | 0.73 | VERY BROKEN UP INTERVAL |
| 95.40 | 1.52 | 33.00 | 1.64 | 107.89 | 0.38 | 25.00 | 16 | 1 | W3.5 | R | 3.0 | 9999.0 | - | - | - | 0.0 | 1 | 8 | 14 | 1.5 | 4 | 0.07 | VERY BROKEN UP INTERVAL |
| 96.93 | 1.53 | 34.00 | 1.57 | 102.61 | 0.52 | 33.99 | 8 | 1 | W3.5 | R | 2.5 | 3.0 | 2.0 | 50.0 | - | 0.0 | 1 | 8 | 14 | 1.5 | 4 | 0 | BROKEN INTERVAL |
| 98.45 | 1.52 | 35.00 | 1.55 | 101.97 | 1.19 | 78.29 | 9 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 48.0 | 129.0 | 14.0 | 3 | 2 | 14 | 1.5 | 2 | 0.75 | |
| 99.97 | 1.52 | 36.00 | 1.60 | 105.26 | 1.03 | 67.76 | 9 | 1 | W3 | R | 3.0 | 4.0 | 3.0 | 33.0 | 141.0 | 14.0 | 1.5 | 2 | 14 | 1.5 | 2 | 0.23 | |
| 101.50 | 1.53 | 37.00 | 1.48 | 96.73 | 0.79 | 51.63 | 8 | 1 | W3 | R | 3.0 | 6.0 | 2.0 | 85.0 | 113.0 | 14.0 | 1.5 | 4 | 14 | 1.5 | 4 | 0.31 | |
| 103.02 | 1.52 | 38.00 | 1.58 | 103.95 | 1.05 | 69.08 | 11 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 180.0 | 32.0 | 14.0 | 1.5 | 4 | 14 | 1.5 | 4 | 0.03 | |
| 104.55 | 1.53 | 39.00 | 1.50 | 98.04 | 1.33 | 86.93 | 3 | 0 | W3 | R | 3.0 | 3.0 | 2.0 | 38.0 | 151.0 | 14.0 | 1.5 | 4 | 16 | 1.5 | 2 | 0.64 | |
| 106.07 | 1.52 | 40.00 | 1.56 | 102.63 | 1.46 | 96.05 | 8 | 1 | W2.5 | R | 3.0 | 4.0 | 4.0 | 180.0 | 89.0 | 14.0 | 1.5 | 2 | 16 | 1.5 | 2 | 0.1 | |

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Tuesday, Sept 6, 2005

Recorded by: Matthew R. Kochtubajda

Project Number: _____ 05SWC-022

| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 64 | D | - | - | NQ | 3100 | |
| 64 | A | - | 39 | NQ | 3540 | BROKE ALONG A FRACTURE |
| 70 | D | - | - | NQ | 12860 | CRS GRAINED, LOTS OF QTZ |
| 70 | A | - | 32 | NQ | 7520 | along a fracture (crystalline) |
| 82 | D | - | - | NQ | 940 | poor test broke along a fracture |
| 82 | A | - | 37 | NQ | 7620 | BROKE ALONG A FRACTURE |
| 85 | D | - | - | NQ | 8800 | BROKE ALONG A FRACTURE |
| 85 | A | - | 32.5 | NQ | 6540 | along a fracture (crystalline) |
| 90 | D | - | - | NQ | 1140 | BROKE ALONG A FRACTURE |
| 90 | A | - | 31.5 | NQ | 4220 | BROKE ALONG A FRACTURE |
| 97 | D | II | - | NQ | 9160 | BROKE ALONG A FRACTURE |
| 97 | A | - | 36 | NQ | 5740 | along a fracture (crystalline) |
| 103 | D | - | - | NQ | OFL | lots of qtz ( crystalline) |
| 103 | A | - | 33.5 | NQ | 13880 | lots of qtz, crs grained (crystalline) |
| 105 | D | - | - | NQ | 19660 | mostly qtz (crystalline) |
| 105 | A | - | 34 | NQ | OFL | mostly qtz (crystalline) |

TYPE:

D - Diametral  L - Perpendicular

A - Axial  // - Parallel

DDH: 05SWC-022 Box: 1 To Box: 4
Date: Tue, Sept 6, 2005 From: 46.33 m To: 83.21 m
05-SWC-022-Bx1 46.33m
46.33m - 64.84m
05-SWC-022-Bx2 64.84m
64.84m - 71.65m
05-SWC-022-Bx3 71.65m
71.65m - 77.11m
05-SWC-022-Bx4 77.11m
77.11m - 83.21m
83.21m

DDH: 05SWC-022 Box: 5 to Box: 9
Date: Tue, Sept 6, 2005 From: 83.21 m To: 107.29 m
05-SWC-022-Bx5 83.21m
83.21m - 89.14m
05-SWC-022-Bx6
89.14m
89.14m - 94.30m
05-SWC-022-Bx7
94.30m
94.30m - 99.44m
05-SWC-022-Bx8
99.44m
99.44m - 104.76m
05-SWC-022-Bx9
104.76m
104.76m - 107.29m

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing: 6944894.44
Easting: 384567.73
Elevation: 830.5
Trend: 0
Plunge: -90

**Hole #** 05 SWC 024

Date Hole Started: Wednesday, September 7, 2005
Date Hole Finished: Thursday, September 8,2005
Total Hole Depth (m): 81.38
Depth of Casing (m): 9.75
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 9.75 | | | | | | | | | | | | | | | | | | | | | | | |
| 11.28 | 1.53 | 1.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | |
| 12.80 | 1.52 | 2.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | |
| 14.33 | 1.53 | 3.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | |
| 15.85 | 1.52 | 4.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | |
| 17.37 | 1.52 | 5.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | |
| 18.90 | 1.53 | 6.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | |
| 19.81 | 0.91 | 7.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | |
| 20.73 | 0.92 | 8.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 21.03 | 0.30 | 9.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 22.86 | 1.83 | 10.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 24.99 | 2.13 | 11.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 26.57 | 1.58 | 12.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 28.04 | 1.47 | 13.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 29.57 | 1.53 | 14.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 31.70 | 2.13 | 15.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 33.53 | 1.83 | 16.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 35.36 | 1.83 | 17.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 36.88 | 1.52 | 18.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 38.40 | 1.52 | 19.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 39.93 | 1.53 | 20.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 41.76 | 1.83 | 21.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 44.81 | 3.05 | 22.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 45.72 | 0.91 | 23.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 46.63 | 0.91 | 24.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 48.46 | 1.83 | 25.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 49.38 | 0.92 | 26.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 51.21 | 1.83 | 27.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 51.82 | 0.61 | 28.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | overburden - no measurments were taken |
| 53.64 | 1.82 | 29.00 | 1.61 | 88.46 | 0.99 | 54.40 | 13 | 1 | W3 | R | 3.0 | 6.0 | 2.0 | 69.0 | 125.0 | 14.0 | 1.5 | 4 | 14 | 1 | 4 | 0.27 | |
| 55.17 | 1.53 | 30.00 | 1.27 | 83.01 | 0.14 | 9.15 | 16 | 1 | W3 | R | 3.0 | 12.0 | 8.0 | 49.0 | 125.0 | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.84 | |
| 56.39 | 1.22 | 31.00 | 1.40 | 114.75 | 0.55 | 45.08 | 9 | 1 | W3.5 | R | 3.0 | 3.0 | 4.0 | 81.0 | 132.0 | 0.0 | 1 | 6 | 14 | 1.5 | 4 | 0.38 | |
| 58.22 | 1.83 | 32.00 | 1.57 | 85.79 | 0.92 | 50.27 | 14 | 1 | W3.5 | R | 3.0 | 12.0 | 4.0 | 67.0 | 115.0 | 14.0 | 3 | 4 | 14 | 1.5 | 4 | 0.1 | |
| 58.83 | 0.61 | 33.00 | 0.61 | 100.00 | 0.14 | 22.95 | 8 | 0 | W3.5 | R | 3.0 | 4.0 | 2.0 | 96.0 | 52.0 | 14.0 | 1.5 | 4 | 14 | 1.5 | 4 | 1.17 | |
| 60.35 | 1.52 | 34.00 | 1.57 | 103.29 | 0.23 | 15.13 | 18 | 1 | W3 | R | 3.0 | 6.0 | 9.0 | 92.0 | 47.0 | 12.0 | 3 | 4 | 14 | 1.5 | 4 | 10.6 | very broken up , visible malachite |
| 61.57 | 1.22 | 35.00 | 1.27 | 104.10 | 0.11 | 9.02 | 12 | 1 | W3 | R | 3.0 | 6.0 | 10.0 | 180.0 | 66.0 | 14.0 | 1.5 | 2 | 14 | 1.5 | 2 | 51.4 | visible malachite on joint walls |
| 62.48 | 0.91 | 36.00 | 1.03 | 113.19 | 0.11 | 12.09 | 15 | 1 | W3.5 | R | 2.5 | 6.0 | 3.0 | 60.0 | 120.0 | 12.0 | 1.5 | 2 | 14 | 1.5 | 2 | 30 | visible malachite and azurite on joint walls |
| 64.01 | 1.53 | 37.00 | 1.37 | 89.54 | 0.24 | 15.69 | 15 | 1 | W3.5 | R | 2.5 | 6.0 | 4.0 | 69.0 | 119.0 | 14.0 | 1.5 | 4 | 14 | 3 | 2 | 25.1 | |
| 65.53 | 1.52 | 38.00 | 1.60 | 105.26 | 0.26 | 17.11 | 18 | 2 | W3 | R | 2.5 | 6.0 | 8.0 | 63.0 | 115.0 | 14.0 | 3 | 2 | 14 | 3 | 2 | 111 | |
| 67.06 | 1.53 | 39.00 | 1.60 | 104.58 | 0.72 | 47.06 | 13 | 1 | W3 | R | 3.0 | 6.0 | 5.0 | 48.0 | 143.0 | 14.0 | 1.5 | 2 | 14 | 1.5 | 2 | 72.3 | |
| 68.58 | 1.52 | 40.00 | 1.64 | 107.89 | 0.36 | 23.68 | 16 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 40.0 | 164.0 | 14.0 | 3 | 4 | 14 | 3 | 2 | 73.8 | visible malachite on joint walls |

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Wednesday, Sept 7, 2005

Recorded by: Matthew R. Kochtubajda

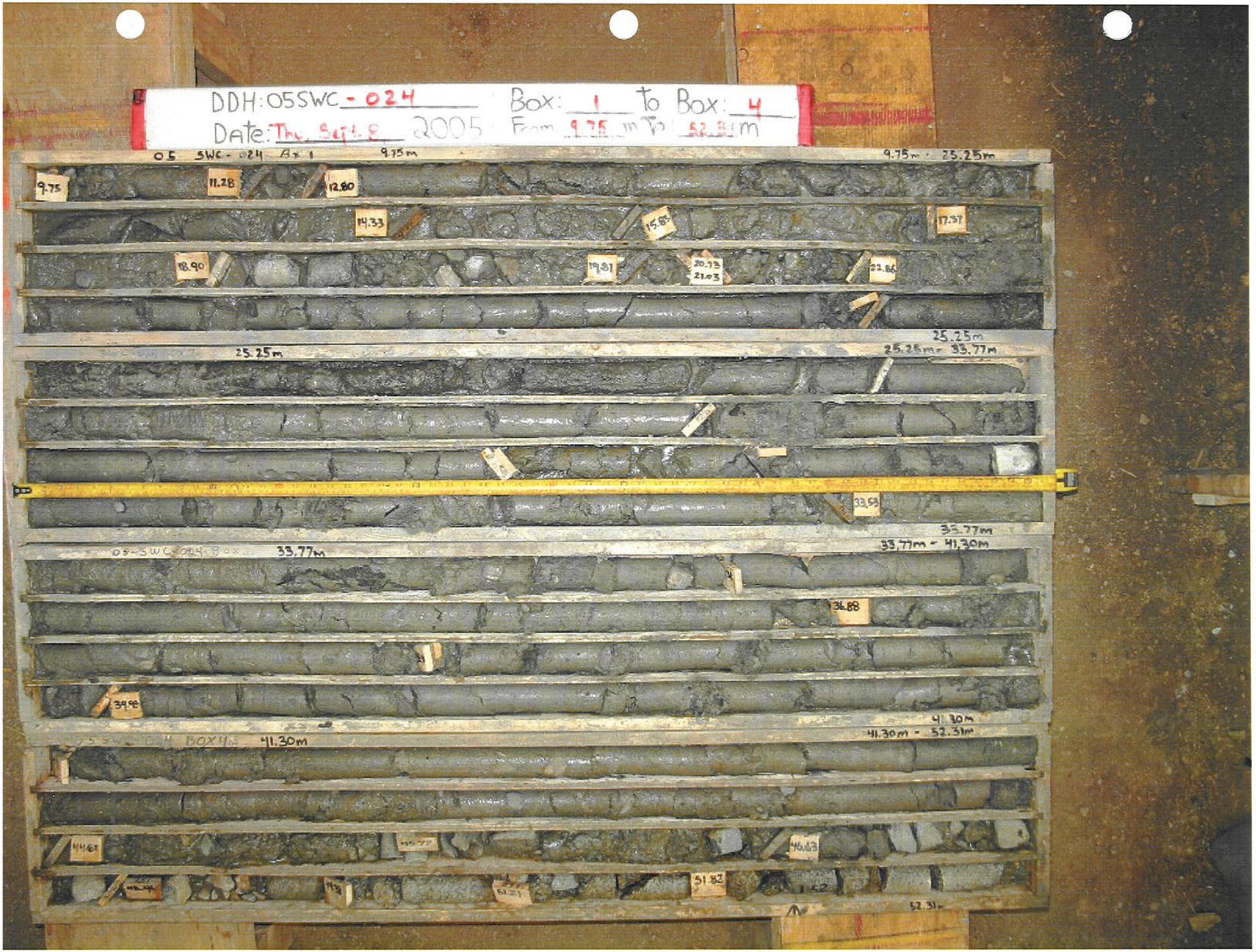
Project Number: _____ 05SWC-024

| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 52 | D | - | - | NQ | 19840 | mostly qtz |
| 52 | A | - | 34 | NQ | 10440 | broke along a fracture |
| 60 | D | - | - | NQ | 13180 | |
| 60 | A | - | 33 | NQ | 4800 | poor test broke along fracture |
| 65 | D | L | - | NQ | 2120 | |
| 65 | A | - | 32.5 | NQ | 1860 | |
| 71 | D | - | - | NQ | 4160 | crs grained |
| 71 | A | - | 31 | NQ | 2980 | broke along a fracture |
| 75 | D | - | - | NQ | 1460 | r test broke along a fracture,lots of malac |
| 75 | A | - | 33.5 | NQ | 6120 | broke along a fracture |
| 81 | D | II | - | NQ | 13400 | broke along a fracture |
| 81 | A | - | 34 | NQ | 7440 | broke along a fracture |

TYPE:

D - Diametral  L - Perpendicular

A - Axial  // - Parallel


DDH: 05SWC - 024 Box: 1 to Box: 4
Date: Thu, Sept. 8 2005 From 9.75 m To: 52.31 m
05 SWC - 024 Box 1 9.75m
9.75m - 25.25m
25.25m
25.25m - 33.77m
33.77m
33.77m - 41.30m
41.30m
41.30m - 52.31m
52.31m

DDH: 05SWC-024 Box: 5 to Box: 8
Date: Thu. Sept. 8 2005 From 52.31 m To: 74.44 m
05SWC-024-Box 5. 52.31m
52.31m - 58.22m
55.17
56.39
58.22
58.22m - 63.78m
58.83
60.35
63
63.78m - 69.24m
66.53
67.06
68.58
69
69.24m
69.24m - 74.44m
69.24m
70
70.10
71.63
73.15
74.44m

DDH: 05SWC - 024 Box: 9 to Box: 10
Date: Thu, Sept 8 2005 From: 74.44 m To: 81.38 m
74.44m
76.20
78.64
79.86m
81.38
81.38m

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing: 6944928.04
Easting: 384683.44
Elevation: 816
Trend: 0
Plunge: -90

**Hole #** 05 SWC 025

Date Hole Started: Wednesday, September 7, 2005
Date Hole Finished: Thursday, September 8,2005
Total Hole Depth (m): 84.43
Depth of Casing (m): 48.16
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 48.16 | | | | | | | | | | | | | | | | | | | | | | | overburden no measurments taken |
| 49.38 | 1.22 | 1.00 | 0.48 | 39.34 | 0.12 | 9.84 | 4 | 0 | W3 | R | 4.5 | 0.5 | 9.0 | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 1.66 | mostly overburden |
| 52.43 | 3.05 | 2.00 | 0.33 | 10.82 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 2.0 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 0.62 | very broken up, brittle, crs grained |
| 53.73 | 1.30 | 3.00 | 0.40 | 30.77 | 0.13 | 10.00 | 2 | 0 | W3.5 | R | 2.0 | 3.0 | 3.0 | 56.0 | - | 12.0 | 3 | 4 | 12 | 1.5 | 4 | 0.38 | |
| 55.47 | 1.74 | 4.00 | 1.20 | 68.97 | 0.00 | 0.00 | 7 | - | W3.5 | R | 2.5 | 3.0 | 4.0 | 64.0 | 120.0 | 0.0 | 1 | 6 | 12 | 3 | 4 | 3.62 | very broken up |
| 57.00 | 1.53 | 5.00 | 1.36 | 88.89 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 3.0 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 57.6 | very broken up |
| 58.52 | 1.52 | 6.00 | 1.11 | 73.03 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 3.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 12 | 3 | 4 | 34 | very broken up |
| 60.05 | 1.53 | 7.00 | 1.04 | 67.97 | 0.18 | 11.76 | 9999 | - | W3.5 | R | 3.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 12 | 3 | 4 | 9.16 | |
| 61.57 | 1.52 | 8.00 | 1.64 | 107.89 | 0.51 | 33.55 | 16 | 1 | W3.5 | R | 3.0 | 6.0 | 4.0 | 15.0 | 90.0 | 0.0 | 1 | 6 | 14 | 1.5 | 4 | 187 | massive magnetite |
| 63.09 | 1.52 | 9.00 | 1.30 | 85.53 | 0.37 | 24.34 | 12 | 1 | W3.5 | R | 2.0 | 6.0 | 6.0 | 86.0 | 138.0 | 12.0 | 3 | 4 | 12 | 3 | 4 | 10 | |
| 64.62 | 1.53 | 10.00 | 1.38 | 90.20 | 0.13 | 8.50 | 14 | 1 | W3.5 | R | 2.0 | 6.0 | 3.0 | 66.0 | 180.0 | 12.0 | 3 | 4 | 12 | 1.5 | 2 | 0.62 | visible malachite on joint walls |
| 65.53 | 0.91 | 11.00 | 0.76 | 83.52 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 3.0 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 7.53 | very broken up |
| 66.45 | 0.92 | 12.00 | 1.00 | 108.70 | 0.12 | 13.04 | 9999 | - | W3.5 | R | 2.5 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 4.17 | very broken up |
| 67.67 | 1.22 | 13.00 | 1.30 | 106.56 | 0.35 | 28.69 | 10 | 1 | W3.5 | R | 1.5 | 6.0 | 10.0 | 180.0 | 146.0 | 12.0 | 3 | 4 | 12 | 3 | 4 | 29.3 | |
| 68.28 | 0.61 | 14.00 | 0.60 | 98.36 | 0.00 | 0.00 | 6 | 0 | W3.5 | R | 2.0 | 3.0 | 4.0 | 42.0 | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 15.2 | |
| 68.58 | 0.30 | 15.00 | 0.27 | 90.00 | 0.00 | 0.00 | 9999 | - | W4 | R | 2.0 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 11.9 | very broken up |
| 69.49 | 0.91 | 16.00 | 0.95 | 104.40 | 0.00 | 0.00 | 5 | 0 | W4 | R | 1.0 | 3.0 | 4.0 | 30.0 | - | 0.0 | 1 | 6 | 12 | 3 | 3 | 13 | |
| 70.41 | 0.92 | 17.00 | 0.90 | 97.83 | 0.00 | 0.00 | 6 | 0 | W3.5 | R | 2.0 | 0.5 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 3 | 0.4 | broken up run |
| 71.02 | 0.61 | 18.00 | 0.65 | 106.56 | 0.00 | 0.00 | 11 | 1 | W3.5 | R | 3.0 | 6.0 | 12.0 | 180.0 | 23.0 | 12.0 | 3 | 4 | 12 | 3 | 4 | 0.4 | |
| 72.24 | 1.22 | 19.00 | 1.02 | 83.61 | 0.12 | 9.84 | 7 | 0 | W3.5 | R | 3.0 | 3.0 | 3.0 | 69.0 | - | 0.0 | 1 | 6 | 12 | 3 | 3 | 0.1 | |
| 73.76 | 1.52 | 20.00 | 1.68 | 110.53 | 0.33 | 21.71 | 14 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 55.0 | - | 12.0 | 3 | 3 | 12 | 3 | 3 | 0.76 | broken up run |
| 74.98 | 1.22 | 21.00 | 1.23 | 100.82 | 0.29 | 23.77 | 11 | 1 | W3 | R | 3.0 | 12.0 | 8.0 | 45.0 | 128.0 | 12.0 | 3 | 4 | 12 | 1.5 | 4 | 0.12 | |
| 75.59 | 0.61 | 22.00 | 0.90 | 147.54 | 0.13 | 21.31 | 2 | 1 | W3 | R | 2.5 | 3.0 | 4.0 | 44.0 | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 0.71 | |
| 76.81 | 1.22 | 23.00 | 1.12 | 91.80 | 0.23 | 18.85 | 7 | 1 | W3 | R | 2.5 | 3.0 | 3.0 | 55.0 | 91.0 | 12.0 | 3 | 4 | 14 | 3 | 4 | 0.65 | |
| 77.42 | 0.61 | 24.00 | 0.84 | 137.70 | 0.00 | 0.00 | 2 | 0 | W3.5 | R | 2.0 | 3.0 | 3.0 | 180.0 | - | 0.0 | 1 | 6 | 12 | 3 | 4 | 0.14 | very broken up |
| 78.33 | 0.91 | 25.00 | 0.98 | 107.69 | 0.13 | 14.29 | 8 | 1 | W3 | R | 2.5 | 6.0 | 2.0 | 13.0 | 130.0 | 14.0 | 1.5 | 2 | 14 | 1.5 | 2 | 0.53 | |
| 79.86 | 1.53 | 26.00 | 1.70 | 111.11 | 0.29 | 18.95 | 12 | 1 | W3 | R | 3.0 | 12.0 | 13.0 | 29.0 | 136.0 | 14.0 | 1.5 | 2 | 14 | 3 | 2 | 1.29 | |
| 81.38 | 1.52 | 27.00 | 1.55 | 101.97 | 0.45 | 29.61 | 11 | 1 | W3 | R | 3.0 | 9.0 | 4.0 | 180.0 | 75.0 | 14.0 | 3 | 2 | 14 | 1.5 | 2 | 0.32 | |
| 82.91 | 1.53 | 28.00 | 1.58 | 103.27 | 0.90 | 58.82 | 13 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 54.0 | 131.0 | 14.0 | 1 | 4 | 14 | 1.5 | 2 | 2.23 | |
| 84.43 | 1.52 | 29.00 | 1.67 | 109.87 | 0.54 | 35.53 | 15 | 1 | W3 | R | 3.0 | 3.0 | 4.0 | 27.0 | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.16 | E.O.H |
| | -84.43 | 30.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | |
| | 0.00 | 31.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 32.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 33.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 34.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 35.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 36.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 37.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 38.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 39.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 40.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Thursday, Sept 8, 2005

Recorded by: Matthew R. Kochtubajda

Project Number: _____ 05SWC-025

| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 52 | D | - | - | NQ | 1100 | crs grained |
| 52 | A | - | 37.5 | NQ | 2360 | crs grained, broke along a fracture |
| 61 | D | - | - | NQ | 540 | brittle |
| 61 | A | - | 35 | NQ | 960 | brittle, very weathered |
| 75 | D | - | - | NQ | 3300 | broke along a fracture |
| 75 | A | - | 33 | NQ | 3340 | broke along a fracture |
| 77 | D | - | - | NQ | 7840 | broke along a fracture |
| 77 | A | - | 34 | NQ | 1660 | broke along a fracture |
| 83 | D | - | - | NQ | 3620 | broke along a fracture |
| 83 | A | - | 37 | NQ | 2780 | broke along a fracture |

TYPE:

D - Diametral  L - Perpendicular

A - Axial  // - Parallel

DDH: 05SWC-025 Box: 1 to Box: 4
Date: Thu, Sept 8, 2005 From: 48.16 m To: 76.75 m
48.16m
59.35m
65.76m
71.16m
76.75m

DDH: 05SWC-025 Box: 5 To Box: 6
Date: Thu Sept 8 2005 From: 76.75 m To: 84.43 m
05-SWC-025-Bx5
76.75-81.78m
75.81
77.42
78.33
81.38
81.78m
XS 76-84.43 EOH
05-SWC-025-Bx6
84.43m

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 026

Date Hole Started: Thursday, September 8,2005
Date Hole Finished: Sunday, September 11, 2005
Total Hole Depth (m): 183.49
Depth of Casing (m):
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 50.58 | | | | | | | | | | | | | | | | | | | | | | | overburden (no measurments were taken) |
| 50.90 | 0.32 | 1.00 | 0.32 | 100.00 | 0.00 | 0.00 | 9999 | - | W2 | R | 4.0 | 9999.0 | - | - | - | | | | | | | 1.31 | rocks the drill has been grinding on |
| 52.43 | 1.53 | 2.00 | 0.16 | 10.46 | 0.00 | 0.00 | 9999 | - | W2 | R | 4.0 | 9999.0 | - | - | - | | | | | | | 0.05 | this run consists of a few pieces of rock |
| 55.47 | 3.04 | 3.00 | 0.56 | 18.42 | 0.00 | 0.00 | 9999 | - | W4 | R | 1.0 | 9999.0 | - | - | - | 10.0 | 1.5 | 4 | 10 | 1.5 | 4 | 0.12 | |
| 57.00 | 1.53 | 4.00 | 0.67 | 43.79 | 0.00 | 0.00 | 9999 | - | W4 | R | 1.0 | 9999.0 | - | - | - | 12.0 | 1.5 | 4 | 12 | 1.5 | 4 | 0.09 | |
| 58.52 | 1.52 | 5.00 | 1.19 | 78.29 | 0.00 | 0.00 | 13 | 1 | W3.5 | R | 2.0 | 3.0 | 2.0 | 10.0 | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 0.56 | broken up run |
| 60.05 | 1.53 | 6.00 | 0.51 | 33.33 | 0.20 | 13.07 | 3 | 0 | W3.5 | R | 2.5 | 4.0 | 4.0 | 23.0 | 180.0 | 12.0 | 3 | 4 | 12 | 2 | 2 | 0.18 | |
| 61.57 | 1.52 | 7.00 | 0.94 | 61.84 | 0.38 | 25.00 | 7 | 0 | W3.5 | R | 2.5 | 3.0 | 4.0 | 93.0 | 152.0 | 12.0 | 3 | 4 | 12 | 3 | 4 | 0.23 | |
| 63.09 | 1.52 | 8.00 | 1.30 | 85.53 | 0.38 | 25.00 | 9 | 1 | W3.5 | R | 3.0 | 6.0 | 2.0 | 60.0 | 128.0 | 12.0 | 3 | 4 | 12 | 1.5 | 4 | 1.7 | |
| 64.62 | 1.53 | 9.00 | 1.76 | 115.03 | 0.00 | 0.00 | 19 | 1 | W3.5 | R | 3.5 | 6.0 | 5.0 | 50.0 | 130.0 | 0.0 | 1 | 6 | 12 | 3 | 2 | 14.4 | visible malachite on joint walls |
| 66.14 | 1.52 | 10.00 | 1.65 | 108.55 | 0.52 | 34.21 | 14 | 1 | W3.5 | R | 3.0 | 6.0 | 5.0 | 64.0 | 120.0 | 0.0 | 1 | 6 | 12 | 1.5 | 2 | 18.5 | visible bornite |
| 67.67 | 1.53 | 11.00 | 1.48 | 96.73 | 0.22 | 14.38 | 12 | 1 | W3.5 | R | 2.5 | 6.0 | 10.0 | 55.0 | 90.0 | 0.0 | 1 | 6 | 12 | 3 | 2 | 20.1 | |
| 69.19 | 1.52 | 12.00 | 1.45 | 95.39 | 0.89 | 58.55 | 8 | 1 | W3 | R | 3.0 | 9.0 | 3.0 | 60.0 | 140.0 | 12.0 | 3 | 2 | 12 | 1.5 | 2 | 9.46 | |
| 70.71 | 1.52 | 13.00 | 1.45 | 95.39 | 0.11 | 7.24 | 10 | 1 | W3 | R | 3.0 | 6.0 | 2.0 | 58.0 | 130.0 | 12.0 | 3 | 3 | 12 | 1.5 | 2 | 8.54 | |
| 72.24 | 1.53 | 14.00 | 1.49 | 97.39 | 0.39 | 25.49 | 9 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 13.0 | 91.0 | 12.0 | 3 | 3 | 12 | 3 | 4 | 7.46 | soft mineral coating on joint walls (altered micas) |
| 73.76 | 1.52 | 15.00 | 1.47 | 96.71 | 0.42 | 27.63 | 14 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 55.0 | 149.0 | 12.0 | 3 | 2 | 12 | 3 | 2 | 2.25 | |
| 75.29 | 1.53 | 16.00 | 1.57 | 102.61 | 1.27 | 83.01 | 7 | 2 | W3 | R | 3.0 | 4.0 | 5.0 | 71.0 | 128.0 | 12.0 | 1.5 | 2 | 12 | 3 | 2 | 236 | visible sulphides on joint walls (chalcopyrite) |
| 76.81 | 1.52 | 17.00 | 1.50 | 98.68 | 0.94 | 61.84 | 8 | 2 | W3 | R | 3.0 | 3.0 | 3.0 | 50.0 | 150.0 | 12.0 | 3 | 2 | 12 | 3 | 2 | 25.3 | |
| 78.33 | 1.52 | 18.00 | 1.53 | 100.66 | 0.69 | 45.39 | 13 | 2 | W2.5 | R | 3.0 | 4.0 | 3.0 | 39.0 | 142.0 | 12.0 | 3 | 4 | 14 | 1.5 | 2 | 9.07 | visible sulphides on joint walls |
| 79.55 | 1.22 | 19.00 | 1.28 | 104.92 | 0.40 | 32.79 | 13 | 1 | W2.5 | R | 3.0 | 6.0 | 4.0 | 69.0 | 110.0 | 14.0 | 3 | 4 | 14 | 1 | 2 | 318 | visible sulphides on joint walls |
| 79.86 | 0.31 | 20.00 | 0.32 | 103.23 | 0.00 | 0.00 | 9999 | - | W3 | R | 4.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 1.9 | very broken up interval |
| 81.38 | 1.52 | 21.00 | 1.59 | 104.61 | 0.34 | 22.37 | 20 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 68.0 | 143.0 | 14.0 | 3 | 2 | 14 | 3 | 4 | 17.1 | |
| 82.91 | 1.53 | 22.00 | 1.42 | 92.81 | 0.79 | 51.63 | 10 | 2 | W3 | R | 3.0 | 6.0 | 5.0 | 59.0 | 105.0 | 14.0 | 3 | 3 | 16 | 3 | 2 | 2.28 | |
| 84.43 | 1.52 | 23.00 | 1.49 | 98.03 | 0.76 | 50.00 | 12 | 1 | W3 | R | 3.0 | 6.0 | 10.0 | 45.0 | 131.0 | 16.0 | 1.5 | 2 | 14 | 3 | 2 | 30.3 | |
| 85.34 | 0.91 | 24.00 | 1.16 | 127.47 | 0.00 | 0.00 | 15 | 1 | W3 | R | 3.0 | 6.0 | 2.0 | 61.0 | 116.0 | 16.0 | 3 | 2 | 14 | 1.5 | 4 | 17.3 | visible epidote on joint walls |
| 86.87 | 1.53 | 25.00 | 1.52 | 99.35 | 0.62 | 40.52 | 13 | 2 | W3 | R | 3.0 | 6.0 | 2.0 | 50.0 | 129.0 | 14.0 | 1 | 4 | 16 | 1.5 | 2 | 36.2 | |
| 88.39 | 1.52 | 26.00 | 1.62 | 106.58 | 0.53 | 34.87 | 16 | 2 | W3 | R | 4.0 | 6.0 | 2.0 | 50.0 | 116.0 | 14.0 | 3 | 4 | 16 | 1.5 | 4 | 14.2 | |
| 89.00 | 0.61 | 27.00 | 0.49 | 80.33 | 0.15 | 24.59 | 5 | 0 | W2.5 | R | 5.0 | 3.0 | 3.0 | 60.0 | 29.0 | 14.0 | 1.5 | 4 | 16 | 1.5 | 4 | 1.53 | |
| 90.53 | 1.53 | 28.00 | 1.80 | 117.65 | 0.59 | 38.56 | 18 | 1 | W2.5 | R | 5.0 | 12.0 | 3.0 | 50.0 | 130.0 | 0.0 | 1 | 6 | 16 | 1.5 | 4 | 1.07 | |
| 92.05 | 1.52 | 29.00 | 1.31 | 86.18 | 0.68 | 44.74 | 6 | 2 | W3 | R | 3.0 | 3.0 | 9.0 | 66.0 | 132.0 | 14.0 | 3 | 4 | 14 | 3 | 2 | 1.88 | |
| 93.57 | 1.52 | 30.00 | 1.58 | 103.95 | 0.46 | 30.26 | 14 | 1 | W3 | R | 3.0 | 6.0 | 2.0 | 37.0 | 146.0 | 14.0 | 3 | 4 | 16 | 1.5 | 2 | 8.78 | |
| 95.10 | 1.53 | 31.00 | 1.63 | 106.54 | 0.49 | 32.03 | 13 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 39.0 | 180.0 | 14.0 | 3 | 4 | 14 | 1.5 | 2 | 0.82 | |
| 96.62 | 1.52 | 32.00 | 1.43 | 94.08 | 0.65 | 42.76 | 9 | 1 | W3 | R | 3.0 | 4.0 | 10.0 | 35.0 | 162.0 | 16.0 | 3 | 2 | 16 | 1.5 | 2 | 0.49 | visible epidote on joint walls |
| 97.84 | 1.22 | 33.00 | 1.36 | 111.48 | 0.99 | 81.15 | 8 | 1 | W3 | R | 3.0 | 4.0 | 2.0 | 28.0 | 89.0 | 14.0 | 3 | 4 | 16 | 2 | 2 | 0.51 | |
| 98.15 | 0.31 | 34.00 | 0.31 | 100.00 | 0.12 | 38.71 | 2 | 2 | W3 | R | 3.0 | 0.5 | 6.0 | - | - | 16.0 | 3 | 2 | 16 | 3 | 2 | 1.29 | run too short no visible joint sets |
| 99.67 | 1.52 | 35.00 | 1.62 | 106.58 | 0.73 | 48.03 | 13 | 2 | W3 | R | 3.0 | 6.0 | 3.0 | 58.0 | 148.0 | 16.0 | 3 | 2 | 16 | 1.5 | 2 | 0.09 | |
| 101.19 | 1.52 | 36.00 | 1.83 | 120.39 | 0.38 | 25.00 | 11 | 1 | W3 | R | 3.0 | 6.0 | 8.0 | 180.0 | 58.0 | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.09 | very broken up interval |
| 102.72 | 1.53 | 37.00 | 1.67 | 109.15 | 0.86 | 56.21 | 12 | 2 | W3 | R | 3.0 | 6.0 | 4.0 | 37.0 | 129.0 | 16.0 | 3 | 4 | 16 | 2 | 2 | 0.53 | |
| 104.24 | 1.52 | 38.00 | 1.56 | 102.63 | 0.45 | 29.61 | 15 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 47.0 | 130.0 | 16.0 | 1 | 2 | 16 | 1 | 2 | 0.23 | |
| 105.77 | 1.53 | 39.00 | 1.56 | 101.96 | 0.85 | 55.56 | 11 | 1 | W3 | R | 3.0 | 6.0 | 6.0 | 52.0 | 117.0 | 16.0 | 3 | 2 | 16 | 3 | 2 | 0.31 | |
| 107.29 | 1.52 | 40.00 | 1.55 | 101.97 | 1.07 | 70.39 | 8 | 1 | W3 | R | 3.0 | 6.0 | 6.0 | 66.0 | 117.0 | 16.0 | 1.5 | 2 | 16 | 1.5 | 2 | 1.59 | |

## POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Friday, Sept 9, 2005

Recorded by: Matthew R. Kochtubajda

Project Number: _____ 05SWC-026

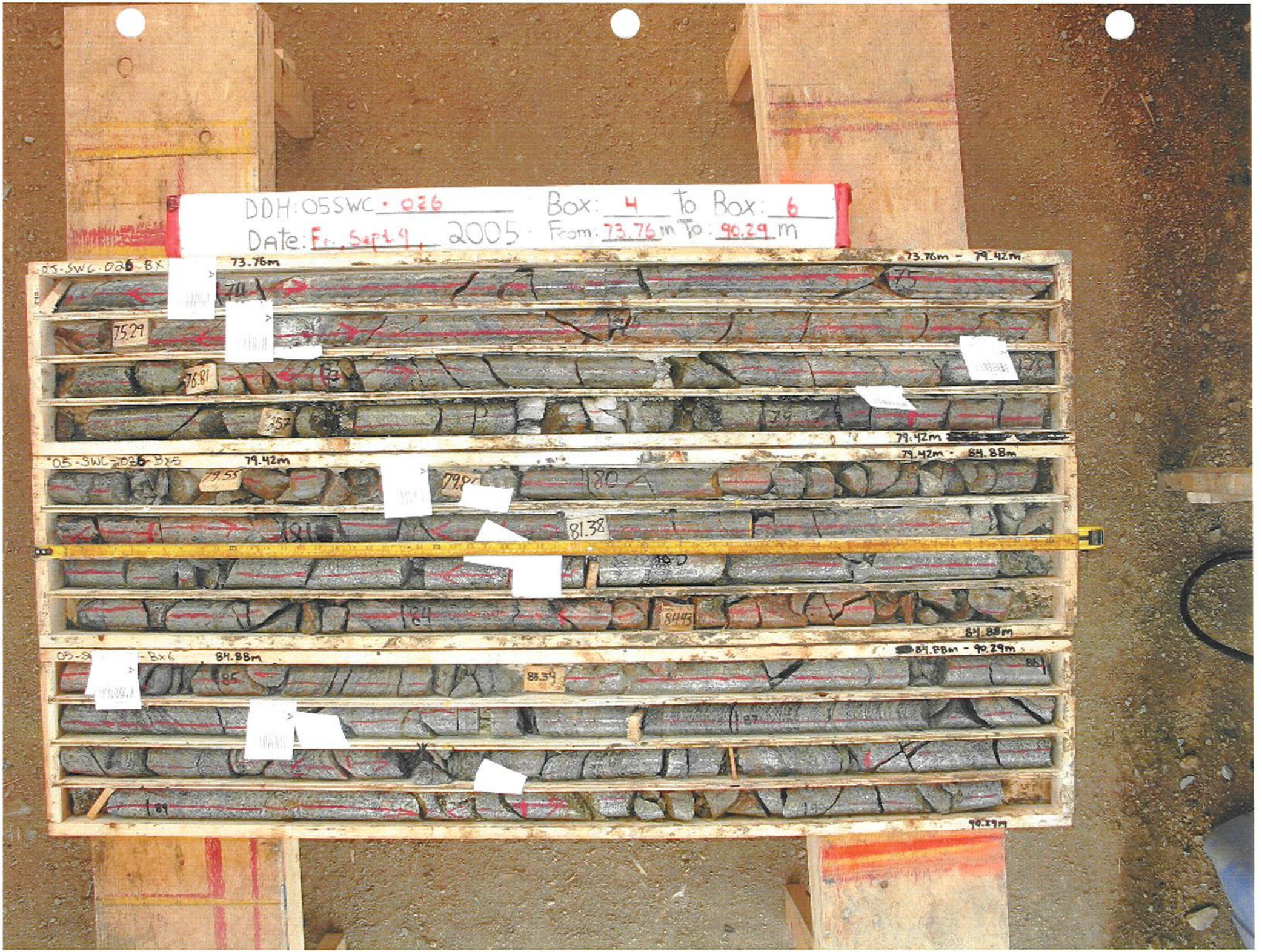
| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 60 | D | - | - | NQ | 6440 | med grained, qtz, biotite |
| 60 | A | - | 28 | NQ | 3720 | broke along fracture |
| 65 | D | - | - | NQ | 4440 | lots of biotite |
| 65 | A | - | 26 | NQ | 1660 | broke along fracture, (lots of biotite) |
| 71 | D | - | - | NQ | 2000 | broke along a fracture |
| 71 | A | - | 33 | NQ | 1840 | broke along fracture, visible chalcopyrite |
| 74 | D | - | - | NQ | 6600 | poor test |
| 74 | A | - | 29 | NQ | 4760 | broke along fracture |
| 78 | D | - | - | NQ | 2040 | all qtz, weathered, broke along fracture |
| 78 | A | - | 38 | NQ | 10160 | all qtz, weathered, broke along fracture |
| 81 | D | - | - | NQ | 8560 | |
| 81 | A | - | 29 | NQ | 6440 | visible banding within the rock |
| 86 | D | - | - | NQ | 9060 | broke along a fracture |
| 86 | A | - | 30 | NQ | 10760 | broke along a fracture |
| 94 | D | - | - | NQ | 17520 | crs grained |
| 94 | A | - | 32.5 | NQ | 2920 | poor test, along a fracture |
| 98 | D | - | - | NQ | 2320 | broke along fracture |
| 98 | A | - | 31.5 | NQ | 1380 | broke along fracture |
| 104 | D | - | - | NQ | 15800 | crs grained, lots of qtz |
| 104 | A | - | 32.5 | NQ | 7880 | broke along a fracture |
| 109 | D | - | - | NQ | 14560 | |
| 109 | A | - | 31 | NQ | 9540 | broke along a fracture |
| 113 | D | - | - | NQ | 2440 | poor test, along a fracture |
| 113 | A | - | 31 | NQ | 1560 | poor test, along a fracture |
| 117 | D | - | - | NQ | 1140 | |
| 117 | A | - | 34.5 | NQ | 300 | broke along a fracture |
| 125 | D | - | - | NQ | 17880 | lots of qtz, crs grained |
| 125 | A | - | 30 | NQ | 13480 | broke along a fracture |
| 131 | D | - | - | NQ | 17800 | lots of qtz, crs grained |
| 131 | A | - | 31.5 | NQ | 3140 | broke along a fracture |
| 136 | D | - | - | NQ | 6440 | broke along a fracture |
| 136 | A | - | 35 | NQ | 1660 | broke along a fracture |
| 140 | D | - | - | NQ | 2360 | broke along a fracture |
| 140 | A | - | 32 | NQ | 6780 | |
| 145 | D | - | - | NQ | 9780 | broke along a fracture |
| 145 | A | - | 30.5 | NQ | 6620 | |
| 152 | D | - | - | NQ | OFL | sample would not break (chipped) |
| 152 | A | - | 28 | NQ | 5340 | broke along a fracture |
| 156 | D | - | - | NQ | OFL | sample would not break |
| 156 | A | - | 30 | NQ | 13040 | broke along a fracture, mostly qtz |
| 162 | D | - | - | NQ | 18100 | mostly qtz |
| 162 | A | - | 30.5 | NQ | 11720 | broke along a fracture |
| 164 | D | - | - | NQ | 16780 | very crs grained, lots of qtz |
| 164 | A | - | 30 | NQ | 4400 | broke along a fracture |
| 173 | D | - | - | NQ | 16300 | |
| 173 | A | - | 32 | NQ | 9340 | broke along a fracture |
| 176 | D | - | - | NQ | 12100 | |
| 176 | A | - | 32 | NQ | 3440 | biotite, chalcopyrite,some qtz |
| 181 | D | - | - | NQ | 6800 | |
| 181 | A | - | 34 | NQ | 12320 | broke along a fracture |

TYPE:

D - Diametral  L - Perpendicular

A - Axial  // - Parallel

DDH: 05SWC-026
Box: 1 to Box: 3
Date: Fri. Sept 9, 2005
From: 50.58m To: 73.76 m
50.58m - 62.50m
50.96
52.43
55.47
57.00
58.52
60.05
61.57
62.50m - 68.16m
63.09
64.62
66.14
67.67
68.16m - 73.76m
69.19
70.71
72.23
73.76m

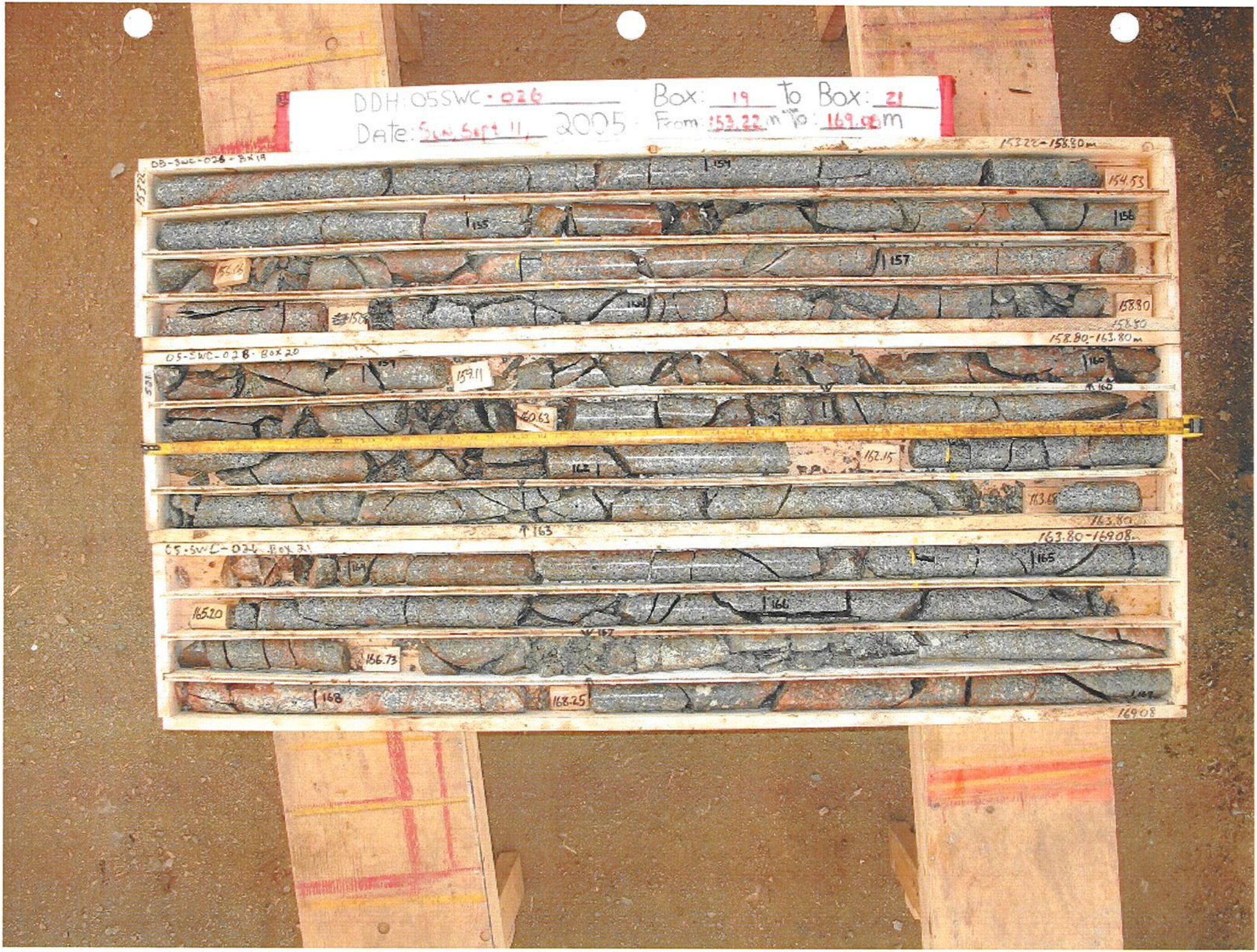

DDH: 05SWC - 026 Box: 4 to Box: 6
Date: Fri. Sept 9, 2005 From: 73.76m To: 90.29m
05-SWC-026-Bx4
73.76m
73.76m - 79.42m
79.42m
05-SWC-026-Bx5
79.42m
79.42m - 84.88m
84.88m
05-SWC-026-Bx6
84.88m
84.88m - 90.29m
90.29m

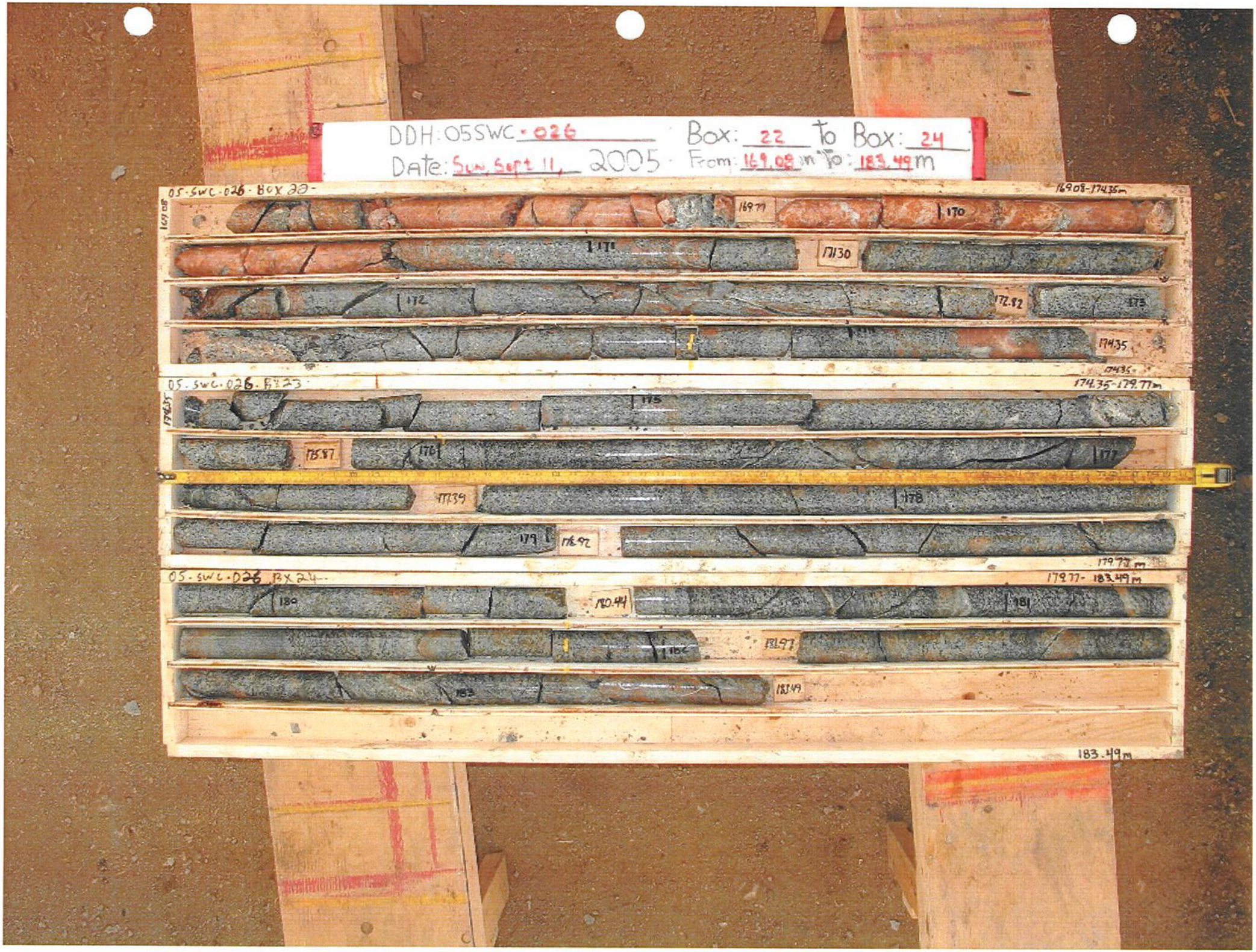
DDH: 05SWC-026
Box: 7 to Box: 9
Date: Fr. Sept 9, 2005
From: 90.29 m To: 106.30 m
05-SWC-026-Bx7
90.29m
90.29m - 95.71m
92.05
93.57
95.71m
05-SWC-026-Bx8
95.71m
95.71m - 101.00m
97.84
98.15
101.00m
05-SWC-026-Bx9
101.00m
101.00m - 106.30m
105.77
106.30m

DDH: 05SWC-026 Box: 10 to Box: 12
Date: Sat, Sept 10, 2005 From: 106.30m To: 121.36m
05-SWC-026/BX10 106.30m
106.30m - 111.46m
107.29
108.91
111.46m
05-SWC-026-BX11 111.46m
111.46m - 116.26m
111.86
113.39
114.91
116.26m
05-SWC-026-BX12 116.26m
116.26m - 121.36m
121.36m

DDH: 05SWC-026 Box: 13 to Box: 15
Date: Sat. Sept 10, 2005 From: 121.36 m To: 137.29 m
05-SWC-026-Bx 13
121.36m
121.36m - 126.49m
122.53
124.05
125.9
126.49m
05-SWC-026-Bx 14
126.49m
126.49m - 132.00m
130.15
131.67
132.00m
05-SWC-026-Bx 15
132.00m
132.00m - 137.29m
134.72
136.25
137.29m

DDH: 05SWC-026 Box: 16 To Box: 18
Date: Sat. Sept 10, 2005 From: 137.29m To: 153.22m
05-SWC-026 #16
137.29-142.44m
137.77
139.90
142.34
05-SWC-026 Box 17
142.44-148.18m
143.87
144.78
146.32
05-SWC-026-BX 18
148.18-153.22m
149.05
150.57
152.10
153.01
153


DDH: 05SWC-026 Box: 19 to Box: 21
Date: Sun Sept 11, 2005 From: 153.22 m To: 169.08 m
153.22-158.80m
05-SWC-026 - Box 19
154.53
158.80
158.80-163.80m
05-SWC-026 - Box 20
159.11
160.63
162.15
163.80
163.80-169.08m
05-SWC-026 - Box 21
165.20
166.73
168.25
169.08


DDH: 05SWC-026 Box: 22 to Box: 24
Date: Sun. Sept 11, 2005 From: 169.08 m To: 183.49 m
05-SWC-026 - Box 22 -
169.08-174.35m
169.77
170
171
171.30
172
172.82
173
174.35
174.35
05-SWC-026 - Box 23 -
174.35-179.77m
175
175.87
176
177
177.39
178
179
178.92
179.77m
05-SWC-026 - Box 24 -
179.77-183.49m
180
180.44
181
181.97
182
183.49
183.49m

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 027

Date Hole Started: Sunday, September 11, 2005
Date Hole Finished: Monday, September 12, 2005
Total Hole Depth (m): 100.58
Depth of Casing (m):
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 36.88 | | | | | | | | | | | | | | | | | | | | | | | overburden ( no measurments taken) |
| 37.80 | 0.92 | 1.00 | 0.41 | 44.57 | 0.00 | 0.00 | 9999 | - | W5 | R | 1.0 | 9999.0 | - | - | - | 12.0 | 1.5 | 4 | 12 | 1.5 | 4 | 0.07 | very broken up interval |
| 39.01 | 1.21 | 2.00 | 1.07 | 88.43 | 0.00 | 0.00 | 13 | 1 | W3.5 | R | 2.5 | 3.0 | 3.0 | 58.0 | - | 12.0 | 3 | 2 | 12 | 1.5 | 2 | 11 | visible malachite on joint surfaces |
| 40.23 | 1.22 | 3.00 | 1.07 | 87.70 | 0.00 | 0.00 | 10 | 1 | W3.5 | R | 2.0 | 3.0 | 4.0 | 48.0 | - | 12.0 | 3 | 4 | 12 | 1.5 | 2 | 5.36 | e malachite on joint surfaces, interval very broken up |
| 40.84 | 0.61 | 4.00 | 0.80 | 131.15 | 0.00 | 0.00 | 7 | 1 | W4 | R | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 12 | 3 | 4 | 0.42 | broken up interval |
| 41.45 | 0.61 | 5.00 | 0.61 | 100.00 | 0.00 | 0.00 | 9 | 1 | W4 | R | 1.0 | 3.0 | 3.0 | 54.0 | 89.0 | 0.0 | 1 | 6 | 12 | 1.5 | 4 | 0.05 | |
| 42.98 | 1.53 | 6.00 | 0.84 | 54.90 | 0.40 | 26.14 | 6 | 1 | W4 | R | 1.0 | 6.0 | 4.0 | 55.0 | 89.0 | 0.0 | 1 | 6 | 12 | 1.5 | 4 | 0.75 | |
| 43.59 | 0.61 | 7.00 | 0.60 | 98.36 | 0.11 | 18.03 | 9999 | - | W4 | R | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 12 | 1.5 | 4 | 0.18 | broken up interval |
| 45.11 | 1.52 | 8.00 | 0.18 | 11.84 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 0.93 | bits of broken up rock |
| 46.63 | 1.52 | 9.00 | 1.45 | 95.39 | 1.05 | 69.08 | 9 | 1 | W3.5 | R | 2.5 | 3.0 | 6.0 | 44.0 | 152.0 | 12.0 | 1.5 | 2 | 12 | 1.5 | 2 | 0.12 | |
| 47.85 | 1.22 | 10.00 | 1.26 | 103.28 | 0.67 | 54.92 | 12 | 1 | W3.5 | R | 2.5 | 6.0 | 4.0 | 55.0 | 89.0 | 12.0 | 3 | 4 | 12 | 1.5 | 4 | 0.18 | |
| 49.38 | 1.53 | 11.00 | 1.56 | 101.96 | 0.59 | 38.56 | 14 | 1 | W3.5 | R | 2.5 | 6.0 | 3.0 | 55.0 | 180.0 | 12.0 | 1.5 | 2 | 12 | 3 | 2 | 0.32 | |
| 49.99 | 0.61 | 12.00 | 0.58 | 95.08 | 0.31 | 50.82 | 4 | 0 | W3.0 | R | 4.0 | 3.0 | 4.0 | 54.0 | 89.0 | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.2 | |
| 51.51 | 1.52 | 13.00 | 1.62 | 106.58 | 1.09 | 71.71 | 10 | 2 | W3 | R | 3.0 | 4.0 | 3.0 | 63.0 | 156.0 | 14.0 | 3 | 2 | 14 | 1.5 | 2 | 1.07 | |
| 52.43 | 0.92 | 14.00 | 0.90 | 97.83 | 0.80 | 86.96 | 5 | 2 | W3 | R | 3.0 | 3.0 | 3.0 | 62.0 | 180.0 | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.18 | |
| 53.95 | 1.52 | 15.00 | 1.43 | 94.08 | 1.05 | 69.08 | 7 | 2 | W3 | R | 3.0 | 6.0 | 2.0 | 70.0 | 150.0 | 12.0 | 3 | 4 | 14 | 1.5 | 2 | 0.32 | |
| 55.47 | 1.52 | 16.00 | 1.03 | 67.76 | 0.20 | 13.16 | 10 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 46.0 | 92.0 | 12.0 | 3 | 4 | 12 | 3 | 4 | 0.25 | |
| 56.08 | 0.61 | 17.00 | 0.61 | 100.00 | 0.49 | 80.33 | 2 | 0 | W4 | R | 1.0 | 0.5 | - | - | - | 12.0 | 3 | 4 | 12 | 1.5 | 4 | 0.6 | |
| 57.61 | 1.53 | 18.00 | 1.62 | 105.88 | 0.44 | 28.76 | 4 | 0 | W3.5 | R | 3.0 | 3.0 | 4.0 | 31.0 | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 1.97 | most of the interval is very broken up |
| 58.52 | 0.91 | 19.00 | 1.13 | 124.18 | 0.13 | 14.29 | 13 | 1 | W3.5 | R | 3.0 | 12.0 | 5.0 | 51.0 | 135.0 | 14.0 | 3 | 2 | 14 | 3 | 2 | 1.83 | visible malachite on joint surfaces |
| 59.74 | 1.22 | 20.00 | 1.22 | 100.00 | 0.77 | 63.11 | 10 | 1 | W3 | R | 3.0 | 4.0 | 5.0 | 57.0 | 152.0 | 14.0 | 1.5 | 2 | 14 | 1.5 | 2 | 0.54 | |
| 61.57 | 1.83 | 21.00 | 1.70 | 92.90 | 1.50 | 81.97 | 10 | 1 | W3 | R | 3.0 | 3.0 | 2.0 | 52.0 | - | 14.0 | 1.5 | 2 | 14 | 1.5 | 2 | 1.07 | |
| 63.09 | 1.52 | 22.00 | 1.11 | 73.03 | 0.76 | 50.00 | 6 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 24.0 | 63.0 | 14.0 | 1.5 | 2 | 14 | 1.5 | 2 | 2.04 | |
| 64.62 | 1.53 | 23.00 | 1.72 | 112.42 | 1.00 | 65.36 | 13 | 1 | W3 | R | 3.0 | 3.0 | 3.0 | 43.0 | 145.0 | 14.0 | 3 | 2 | 14 | 1.5 | 2 | 44.1 | visible magnetite |
| 65.23 | 0.61 | 24.00 | 0.66 | 108.20 | 0.28 | 45.90 | 7 | 1 | W3 | R | 3.0 | 3.0 | 2.0 | 180.0 | - | 14.0 | 1 | 2 | 14 | 3 | 2 | 82.8 | visible magnetite |
| 66.45 | 1.22 | 25.00 | 1.32 | 108.20 | 0.81 | 66.39 | 8 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 51.0 | 155.0 | 14.0 | 1.5 | 4 | 14 | 3 | 2 | 172 | visible magnetite |
| 67.67 | 1.22 | 26.00 | 1.23 | 100.82 | 0.76 | 62.30 | 6 | 1 | W3 | R | 3.0 | 0.5 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 49.4 | |
| 69.19 | 1.52 | 27.00 | 1.55 | 101.97 | 0.84 | 55.26 | 10 | 1 | W3 | R | 3.0 | 6.0 | 2.0 | 29.0 | 132.0 | 16.0 | 3 | 2 | 16 | 3 | 2 | 74.4 | visible chalcopyrite, bornite on joint surfaces |
| 70.71 | 1.52 | 28.00 | 1.70 | 111.84 | 1.10 | 72.37 | 9 | 1 | W3 | R | 3.0 | 3.0 | 5.0 | 38.0 | 141.0 | 16.0 | 1.5 | 2 | 16 | 3 | 2 | 192 | |
| 72.24 | 1.53 | 29.00 | 1.46 | 95.42 | 0.93 | 60.78 | 9 | 2 | W3 | R | 3.0 | 9.0 | 5.0 | 47.0 | 122.0 | 16.0 | 3 | 4 | 16 | 3 | 2 | 29.7 | visible chalcopyrite on joint surfaces |
| 73.46 | 1.22 | 30.00 | 1.25 | 102.46 | 0.63 | 51.64 | 8 | 1 | W3 | R | 3.0 | 6.0 | 12.0 | 24.0 | 133.0 | 16.0 | 3 | 4 | 16 | 1.5 | 4 | 37.9 | altered micas on joint surfaces |
| 74.98 | 1.52 | 31.00 | 1.58 | 103.95 | 0.86 | 56.58 | 10 | 2 | W3 | R | 3.0 | 6.0 | 3.0 | 61.0 | 136.0 | 16.0 | 3 | 2 | 16 | 1.5 | 2 | 1.66 | visible chalcopyrite and bornite on joint surfaces |
| 76.50 | 1.52 | 32.00 | 1.50 | 98.68 | 1.35 | 88.82 | 5 | 1 | W3 | R | 3.0 | 4.0 | 5.0 | 57.0 | 140.0 | 16.0 | 1.5 | 2 | 16 | 1.5 | 2 | 13.9 | |
| 78.03 | 1.53 | 33.00 | 1.60 | 104.58 | 0.87 | 56.86 | 8 | 1 | W3 | R | 3.0 | 3.0 | 2.0 | 30.0 | - | 16.0 | 1.5 | 4 | 16 | 1.5 | 2 | 31.7 | ble magnetite, altered micas on some joint surfaces |
| 78.94 | 0.91 | 34.00 | 1.15 | 126.37 | 0.14 | 15.38 | 8 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 49.0 | 154.0 | 16.0 | 3 | 4 | 16 | 3 | 2 | 7.53 | |
| 79.86 | 0.92 | 35.00 | 0.60 | 65.22 | 0.32 | 34.78 | 4 | 0 | W3 | R | 3.0 | 3.0 | 9.0 | 41.0 | - | 16.0 | 3 | 2 | 16 | 3 | 2 | 26.9 | flecks of chalcopyrite on joint surfaces |
| 81.38 | 1.52 | 36.00 | 1.55 | 101.97 | 1.32 | 86.84 | 8 | 2 | W3 | R | 3.0 | 3.0 | 4.0 | 31.0 | - | 16.0 | 3 | 2 | 16 | 3 | 3 | 61 | |
| 82.91 | 1.53 | 37.00 | 1.50 | 98.04 | 0.41 | 26.80 | 15 | 3 | W3 | R | 3.0 | 6.0 | 3.0 | 44.0 | 119.0 | 16.0 | 3 | 4 | 16 | 3 | 4 | 54.4 | altered micas on joint surfaces |
| 84.43 | 1.52 | 38.00 | 1.51 | 99.34 | 0.00 | 0.00 | 16 | 1 | W3 | R | 3.0 | 6.0 | 5.0 | 180.0 | 47.0 | 14.0 | 3 | 4 | 14 | 3 | 4 | 8.41 | altered micas on joint surfaces |
| 85.95 | 1.52 | 39.00 | 1.69 | 111.18 | 0.30 | 19.74 | 19 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 49.0 | 147.0 | 16.0 | 1.5 | 4 | 16 | 3 | 2 | 7.02 | altered micas on some of the joint surfaces |
| 86.56 | 0.61 | 40.00 | 0.70 | 114.75 | 0.12 | 19.67 | 6 | 1 | W3.5 | R | 2.5 | 0.5 | - | - | - | 16.0 | 3 | 4 | 16 | 3 | 4 | 4.73 | no visible joint sets |

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Sunday, Sept 11, 2005

Recorded by: Matthew R. Kochtubajda

Project Number: _____ 05SWC-027

| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 46 | D | - | - | NQ | 4280 | broke along a fracture |
| 46 | A | - | 33 | NQ | 4640 | broke along a fracture |
| 52 | D | - | - | NQ | 10360 | broke along a fracture |
| 52 | A | - | 29 | NQ | 8620 | broke along a fracture |
| 55 | D | - | - | NQ | 960 | very crs grained, brittle, lots of qtz |
| 55 | A | - | 41 | NQ | 940 | |
| 60 | D | - | - | NQ | 13060 | lots of qtz (crystalline) |
| 60 | A | - | 31.5 | NQ | 10480 | broke along a fracture |
| 67 | D | - | - | NQ | 11540 | ore zone, lots of chalcopyrite, bornite |
| 67 | A | - | 31 | NQ | 7520 | broke along a fracture |
| 74 | D | - | - | NQ | 4120 | fine grained |
| 74 | A | - | 30.5 | NQ | 4560 | broke along a fracture |
| 80 | D | - | - | NQ | 5800 | broke along a fracture |
| 80 | A | - | 32 | NQ | 8060 | |
| 85 | D | - | - | NQ | 11980 | |
| 85 | A | - | 33.5 | NQ | 4840 | |
| 89 | D | - | - | NQ | 1160 | broke along a fracture |
| 89 | A | - | 33 | NQ | 2040 | soft |
| 95 | D | - | - | NQ | 19540 | crs grained, lots of qtz |
| 95 | A | - | 41 | NQ | 1260 | broke along a fracture |
| 99 | D | - | - | NQ | 3060 | broke along a fracture |
| 99 | A | - | 37 | NQ | 1140 | broke along a fracture |

TYPE:

D - Diametral
A - Axial
L - Perpendicular
// - Parallel

DDH 05SWC-027 Box: 1 to Box: 4
Date: 5 - Sept 11, 2005 From 14.92 m To: 55.47 m
05-SWC-027 BOX 1
14.92-30.31m
30.31-41.69m
40.23
41.45
43.59
47.05
49.38
4938-55.47m
55.47

DDH: 05SWC - 027 Box: 5 To Box: 8
Date: 5 - Sept 11, 2005 From 55.47 m To 77.03 m
05-SWC-027 - Box 5
55.47-60.51m
60.51-66.18m
7.65-77.03m

DDH: 05SWC-027 Box 9 to Box: 13
Date: 5 - Sept-11, 2005 From: 77.03 m To: 100.58 m
77.03-82.58m
7803
82.58-87.99m
9205
93.12
93.12-99.67m
99.67
EOH
99.67-100.58
100.58

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 028

Date Hole Started: Monday, September 12, 2005
Date Hole Finished: Tuesday, September 13, 2005
Total Hole Depth (m): 122.53
Depth of Casing (m):
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 70.71 | | | | | | | | | | | | | | | | | | | | | | | overburden (no measurments recorded) |
| 71.32 | 0.61 | 1.00 | 0.58 | 95.08 | 0.00 | 0.00 | 9 | 1 | W3 | R | 3.0 | 3.0 | 4.0 | 65.0 | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 30.8 | roken up interval, mica minerals on joint surfaces |
| 72.24 | 0.92 | 2.00 | 0.95 | 103.26 | 0.00 | 0.00 | 9 | 1 | W3.5 | R | 2.5 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 14 | 3 | 4 | 0.36 | very broken up interval (crushed) |
| 73.76 | 1.52 | 3.00 | 1.32 | 86.84 | 0.22 | 14.47 | 18 | 1 | W3 | R | 2.5 | 6.0 | 10.0 | 73.0 | 115.0 | 0.0 | 1 | 6 | 14 | 1.5 | 2 | 3.89 | visible malachite on joint surfaces |
| 75.59 | 1.83 | 4.00 | 1.80 | 98.36 | 0.60 | 32.79 | 20 | 2 | W3 | R | 2.5 | 6.0 | 4.0 | 87.0 | 65.0 | 14.0 | 3 | 4 | 14 | 1.5 | 2 | 41.6 | wc joint is weathered biotite, visible malachite |
| 76.65 | 1.06 | 5.00 | 0.72 | 67.92 | 0.44 | 41.51 | 6 | 1 | W3 | R | 2.5 | 3.0 | 5.0 | 88.0 | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 9.18 | |
| 78.18 | 1.53 | 6.00 | 1.59 | 103.92 | 0.70 | 45.75 | 14 | 1 | W3 | R | 3.0 | 3.0 | 4.0 | 65.0 | - | 14.0 | 3 | 4 | 14 | 3 | 2 | 71.9 | visible malachite on joint surfaces |
| 79.86 | 1.68 | 7.00 | 1.57 | 93.45 | 0.99 | 58.93 | 9 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 63.0 | 110.0 | 14.0 | 3 | 4 | 14 | 3 | 2 | 108 | visible magnetite |
| 81.38 | 1.52 | 8.00 | 1.52 | 100.00 | 0.94 | 61.84 | 9 | 2 | W3 | R | 3.0 | 4.0 | 3.0 | 180.0 | 130.0 | 16.0 | 3 | 2 | 16 | 3 | 2 | 19.8 | visible magnetite on joint surface |
| 82.91 | 1.53 | 9.00 | 1.53 | 100.00 | 0.50 | 32.68 | 13 | 1 | W3 | R | 3.0 | 3.0 | 3.0 | 51.0 | 134.0 | 14.0 | 3 | 4 | 16 | 1.5 | 2 | 7.06 | visible magnetite on joint surface |
| 84.12 | 1.21 | 10.00 | 1.18 | 97.52 | 0.90 | 74.38 | 6 | 1 | W3 | R | 3.0 | 4.0 | 4.0 | 47.0 | 97.0 | 16.0 | 3 | 2 | 16 | 3 | 2 | 56.6 | specks of chalcopyrite on joint surface |
| 84.43 | 0.31 | 11.00 | 0.37 | 119.35 | 0.26 | 83.87 | 1 | 1 | W3 | R | 3.0 | 2.0 | 10.0 | 68.0 | - | 16.0 | 3 | 2 | 16 | 3 | 2 | 292 | copyrite on joint surface, visible bands of magnetite |
| 85.95 | 1.52 | 12.00 | 1.55 | 101.97 | 1.05 | 69.08 | 12 | 1 | W3 | R | 3.0 | 6.0 | 5.0 | 79.0 | 117.0 | 18.0 | 3 | 1 | 18 | 3 | 1 | 24.2 | |
| 86.87 | 0.92 | 13.00 | 0.78 | 84.78 | 0.00 | 0.00 | 9 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 66.0 | 131.0 | 18.0 | 3 | 2 | 18 | 3 | 2 | 7.48 | possible flecks of native copper? |
| 88.39 | 1.52 | 14.00 | 1.54 | 101.32 | 0.66 | 43.42 | 11 | 1 | W3 | R | 3.0 | 6.0 | 2.0 | 166.0 | 58.0 | 18.0 | 3 | 4 | 18 | 1.5 | 1 | 0.43 | |
| 90.53 | 2.14 | 15.00 | 2.30 | 107.48 | 1.33 | 62.15 | 18 | 1 | W3 | R | 3.5 | 6.0 | 7.0 | 42.0 | 144.0 | 18.0 | 3 | 2 | 18 | 1.5 | 2 | 0.71 | visible malachite on joint surfaces |
| 91.44 | 0.91 | 16.00 | 1.14 | 125.27 | 0.29 | 31.87 | 13 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 43.0 | 134.0 | 18.0 | 1.5 | 2 | 18 | 1.5 | 2 | 0.29 | visible malachite on joint surfaces |
| 93.27 | 1.83 | 17.00 | 1.55 | 84.70 | 0.88 | 48.09 | 13 | 1 | W3 | R | 3.0 | 6.0 | 10.0 | 43.0 | 116.0 | 0.0 | 1 | 6 | 18 | 3 | 1 | 1.44 | wc joint is weathered biotite |
| 94.18 | 0.91 | 18.00 | 0.98 | 107.69 | 0.34 | 37.36 | 8 | 1 | W3 | R | 3.0 | 3.0 | 8.0 | 55.0 | 163.0 | 0.0 | 1 | 6 | 18 | 3 | 1 | 1.92 | |
| 95.71 | 1.53 | 19.00 | 1.47 | 96.08 | 1.20 | 78.43 | 5 | 1 | W2.5 | R | 3.0 | 2.0 | 5.0 | 44.0 | - | 18.0 | 1.5 | 2 | 18 | 1.5 | 2 | 0 | |
| 97.23 | 1.52 | 20.00 | 1.56 | 102.63 | 1.48 | 97.37 | 3 | 1 | W2.5 | R | 3.0 | 3.0 | 3.0 | 20.0 | 84.0 | 18.0 | 1.5 | 2 | 18 | 1.5 | 2 | 0.56 | |
| 98.45 | 1.22 | 21.00 | 1.18 | 96.72 | 1.08 | 88.52 | 1 | 1 | W2.5 | R | 3.0 | 2.0 | 3.0 | 73.0 | - | 18.0 | 1.5 | 1 | 18 | 1.5 | 1 | 0 | |
| 99.97 | 1.52 | 22.00 | 1.51 | 99.34 | 1.42 | 93.42 | 6 | 1 | W2.5 | R | 3.0 | 3.0 | 2.0 | 42.0 | 125.0 | 18.0 | 3 | 2 | 18 | 1.5 | 2 | 0.27 | |
| 101.19 | 1.22 | 23.00 | 1.12 | 91.80 | 0.42 | 34.43 | 9 | 1 | W2.5 | R | 3.0 | 6.0 | 4.0 | 75.0 | 115.0 | 16.0 | 3 | 4 | 18 | 1.5 | 2 | 0.03 | |
| 102.72 | 1.53 | 24.00 | 1.67 | 109.15 | 1.06 | 69.28 | 9 | 1 | W2.5 | R | 3.0 | 6.0 | 4.0 | 39.0 | 155.0 | 16.0 | 1.5 | 4 | 18 | 1.5 | 2 | 0.34 | |
| 104.24 | 1.52 | 25.00 | 1.62 | 106.58 | 1.37 | 90.13 | 4 | 1 | W2.5 | R | 3.0 | 4.0 | 4.0 | 71.0 | 150.0 | 18.0 | 1.5 | 1 | 18 | 1.5 | 1 | 0.4 | |
| 105.77 | 1.53 | 26.00 | 1.57 | 102.61 | 1.45 | 94.77 | 5 | 1 | W2.5 | R | 3.0 | 4.0 | 3.0 | 49.0 | 89.0 | 18.0 | 1.5 | 1 | 18 | 1.5 | 1 | 0.05 | |
| 107.29 | 1.52 | 27.00 | 1.46 | 96.05 | 1.11 | 73.03 | 10 | 1 | W2.5 | R | 3.0 | 3.0 | 5.0 | 43.0 | 140.0 | 18.0 | 1.5 | 2 | 18 | 3 | 1 | 0.45 | |
| 108.81 | 1.52 | 28.00 | 1.54 | 101.32 | 1.11 | 73.03 | 9 | 2 | W2.5 | R | 3.0 | 6.0 | 3.0 | 14.0 | 141.0 | 18.0 | 3 | 1 | 18 | 3 | 1 | 0.53 | |
| 110.34 | 1.53 | 29.00 | 1.53 | 100.00 | 0.69 | 45.10 | 12 | 3 | W2.5 | R | 3.0 | 12.0 | 7.0 | 52.0 | 180.0 | 18.0 | 1.5 | 1.5 | 18 | 1.5 | 1 | 1.04 | |
| 111.86 | 1.52 | 30.00 | 1.59 | 104.61 | 0.80 | 52.63 | 10 | 1 | W2.5 | R | 3.0 | 12.0 | 4.0 | 43.0 | 116.0 | 18.0 | 3 | 2 | 18 | 3 | 2 | 0.31 | |
| 113.39 | 1.53 | 31.00 | 1.48 | 96.73 | 1.06 | 69.28 | 9 | 3 | W2.5 | R | 3.0 | 4.0 | 3.0 | 42.0 | 130.0 | 18.0 | 1.5 | 1 | 18 | 1.5 | 1 | 0.21 | |
| 114.91 | 1.52 | 32.00 | 1.70 | 111.84 | 0.65 | 42.76 | 13 | 3 | W2.5 | R | 3.0 | 6.0 | 4.0 | 43.0 | 130.0 | 0.0 | 1 | 6 | 18 | 3 | 1 | 0.23 | |
| 116.43 | 1.52 | 33.00 | 1.53 | 100.66 | 1.09 | 71.71 | 9 | 2 | W2.5 | R | 3.0 | 6.0 | 16.0 | 48.0 | 125.0 | 18.0 | 3 | 1 | 18 | 3 | 1 | 0.31 | |
| 117.96 | 1.53 | 34.00 | 1.55 | 101.31 | 1.28 | 83.66 | 9 | 3 | W2.5 | R | 3.0 | 3.0 | 3.0 | 40.0 | 114.0 | 18.0 | 1.5 | 1 | 18 | 1.5 | 1 | 0.25 | |
| 120.40 | 2.44 | 35.00 | 2.19 | 89.75 | 0.97 | 39.75 | 14 | 2 | W2.5 | R | 3.0 | 6.0 | 4.0 | 54.0 | 11.0 | 18.0 | 3 | 4 | 18 | 3 | 2 | 1.68 | broken up interval |
| 121.31 | 0.91 | 36.00 | 1.22 | 134.07 | 0.43 | 47.25 | 8 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 44.0 | 135.0 | 16.0 | 3 | 4 | 16 | 3 | 4 | 0.09 | broken up interval |
| 122.53 | 1.22 | 37.00 | 1.65 | 135.25 | 0.47 | 38.52 | 16 | 1 | W3 | R | 3.0 | 12.0 | 3.0 | 45.0 | 126.0 | 16.0 | 3 | 4 | 16 | 3 | 4 | 0.05 | E.O.H |
| | -122.53 | 38.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | |
| | 0.00 | 39.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 40.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Tuesday, Sept 13, 2005

Recorded by: Matthew R. Kochtubajda

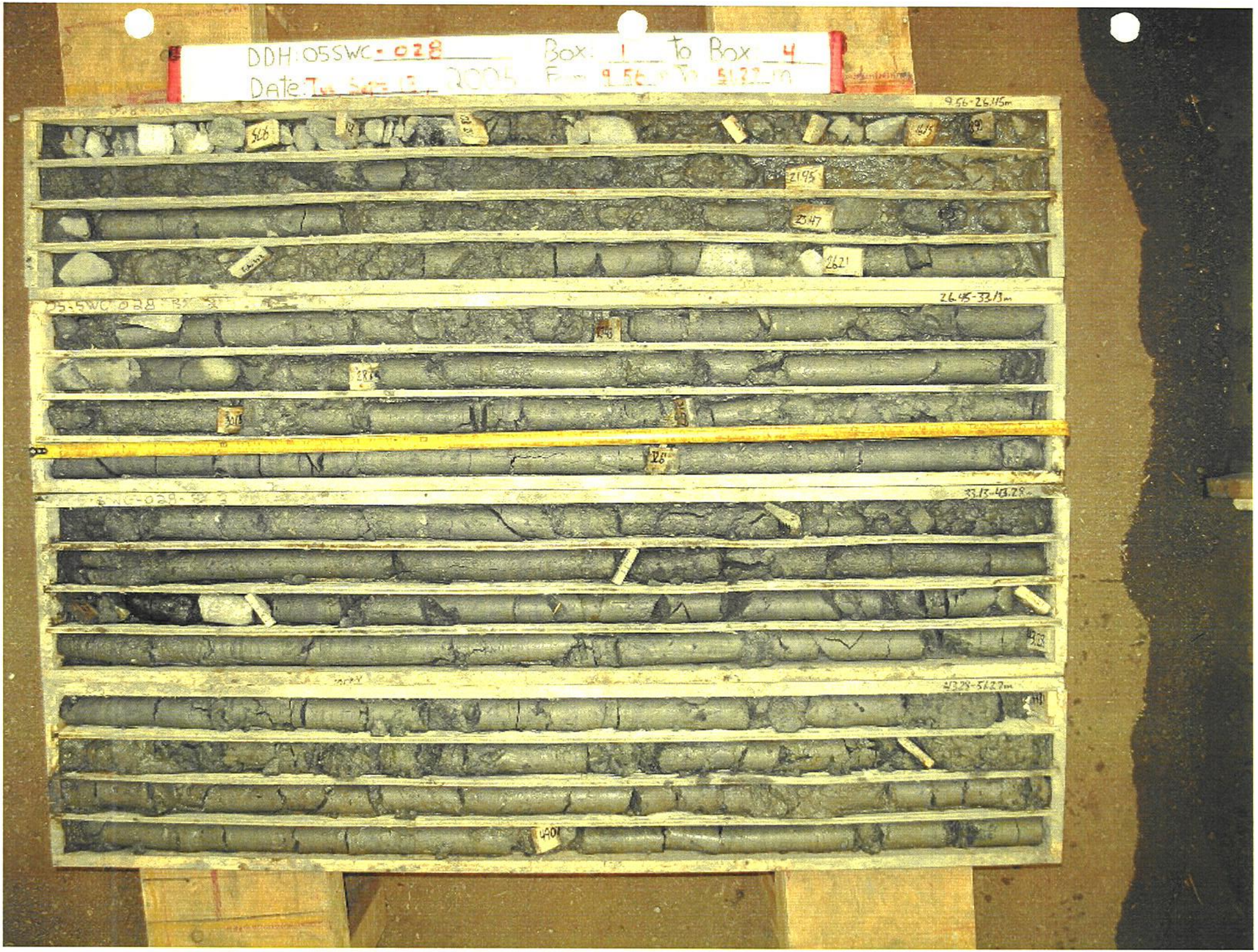
Project Number: _____ 05SWC-028

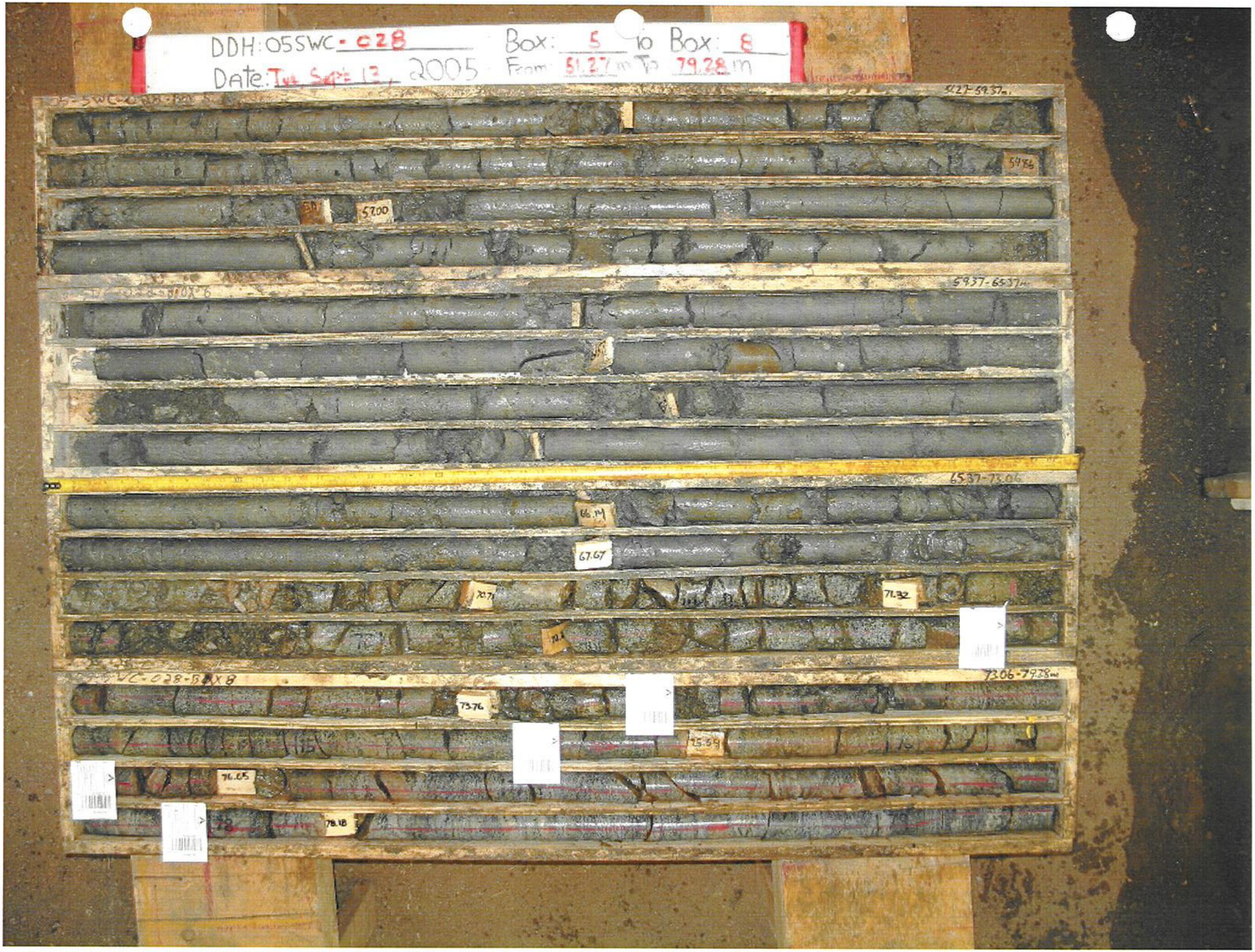
| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 76 | D | - | - | NQ | 1940 | broke along a fracture |
| 76 | A | - | 29.5 | NQ | 7300 | broke along a fracture |
| 82 | D | - | - | NQ | 7040 | broke along a fracture |
| 82 | A | - | 31 | NQ | 5480 | broke along a fracture |
| 89 | D | - | - | NQ | 11160 | crs grained, broke along a fracture |
| 89 | A | - | 32 | NQ | 7320 | broke along a fracture |
| 92 | D | - | - | NQ | 10180 | |
| 92 | A | - | 31.5 | NQ | 2060 | lots of biotite |
| 101 | D | - | - | NQ | 15300 | pegmetite dyke, crystalline grained |
| 101 | A | - | 30 | NQ | OFL | broke along a fracture |
| 101 | D | - | - | NQ | 8280 | lots of biotite |
| 101 | A | - | 33.5 | NQ | 4820 | broke along a fracture |
| 109 | D | - | - | NQ | 16560 | lots of qtz |
| 109 | A | - | 33 | NQ | 13300 | broke along a fracture |
| 115 | D | - | - | NQ | 11800 | same rock type as 109, broke along a fracture |
| 115 | A | - | 40 | NQ | 6580 | broke along a fracture |
| 120 | D | - | - | NQ | 13240 | broke along a fracture |
| 120 | A | - | 34 | NQ | 7400 | broke along a fracture |

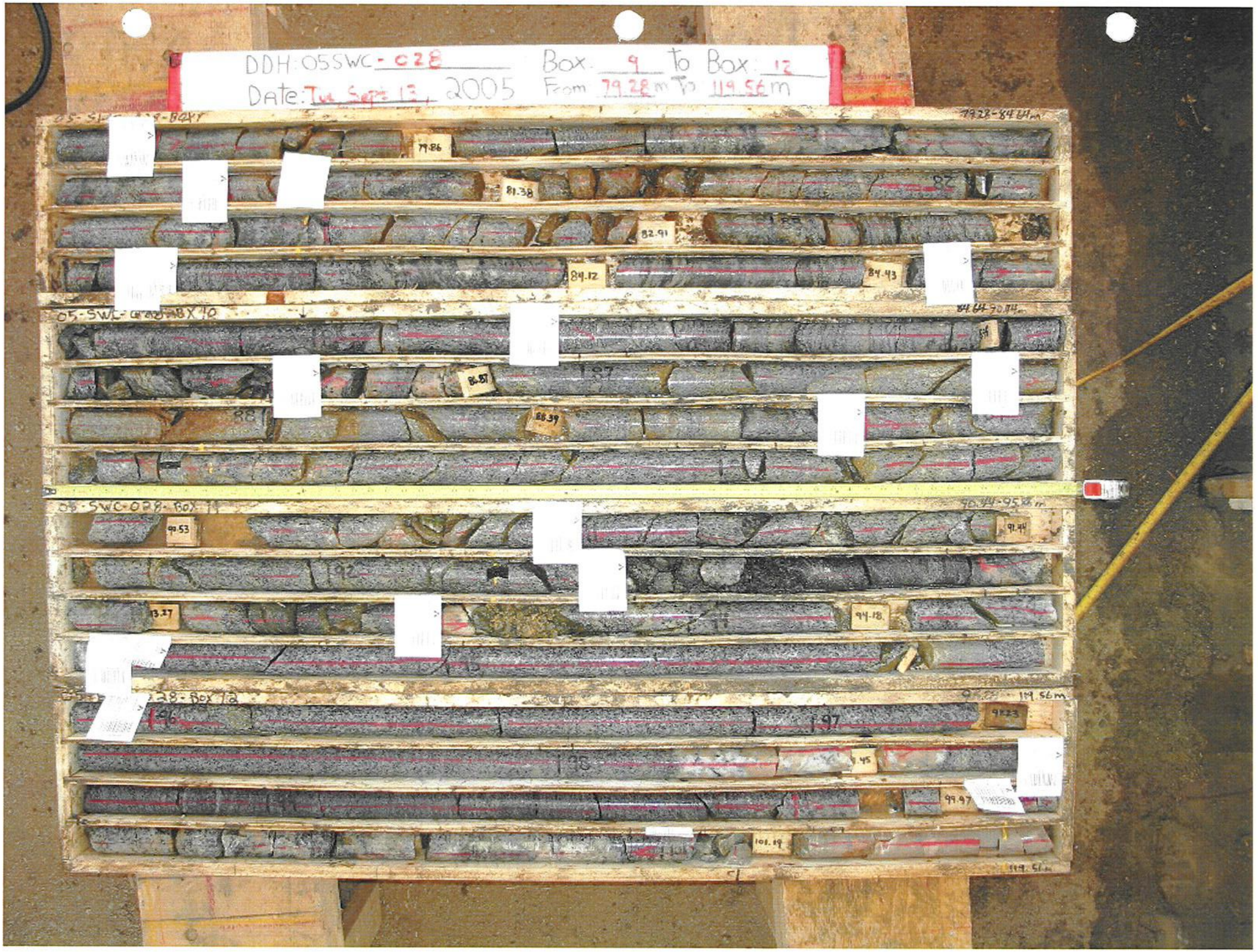
TYPE:

D - Diametral  L - Perpendicular

A - Axial  // - Parallel


DDH: 05SWC-028
Box: 1 to Box 4
Date: Tue Sept 13, 2005
9.56-26.45m
26.45-33.13m
33.13-43.28m
43.28-56.27m


DDH: 05SWC-028
Box: 5 to Box: 8
Date: Tue Sept 13, 2005
From: 51.27 m To 79.28 m
5127-5937m
5486
5700
5937-6537m
6537-7306
6614
6767
7132
7306-7928m
7376
7559
7605
7818


DDH: 05SWC-028
Box 9 to Box 12
Date: Tue Sept 13, 2005
From 79.28m To 119.56m
79.86
81.38
82.91
84.12
84.43
86.87
88.39
90.53
91.44
93.27
94.18
97
99.97
101.19

DDH: 05SWC - 028 Box: 13 to Box: 16
Date: Tue Sept 13, 2005 From: 101.56m To: 122.53m
05-SWC-028-BOX 13
101.56m - 107.19m
05-SWC-028-BOX 14
107.19m - 112.48m
05-SWC-028-BOX 15
112.48m - 117.96m
05-SWC-028-BOX 16
117.96m - 122.53m EOH

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 029

Date Hole Started: Tuesday, Septemer, 13, 2005
Date Hole Finished: Wednesday, September 14, 2005
Total Hole Depth (m): 131.06
Depth of Casing (m):
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 62.79 | | | | | | | | | | | | | | | | | | | | | | | overburden ( no measurments recorded) |
| 63.09 | 0.30 | 1.00 | 0.45 | 150.00 | 0.00 | 0.00 | 9999 | - | W5 | R | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.67 | erval consists of fragments of rock, very broken up |
| 63.40 | 0.31 | 2.00 | 0.51 | 164.52 | 0.00 | 0.00 | 4 | 0 | W4 | R | 2.0 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 5.94 | interval very broken up |
| 64.62 | 1.22 | 3.00 | 1.04 | 85.25 | 0.17 | 13.93 | 10 | 1 | W4 | R | 2.5 | 3.0 | 4.0 | 86.0 | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 4.22 | broken up |
| 66.14 | 1.52 | 4.00 | 1.64 | 107.89 | 0.26 | 17.11 | 14 | 1 | W4 | R | 2.5 | 6.0 | 3.0 | 67.0 | 135.0 | 12.0 | 3 | 4 | 12 | 3 | 4 | 0.23 | broken up |
| 67.67 | 1.53 | 5.00 | 1.39 | 90.85 | 0.28 | 18.30 | 4 | 0 | W4 | R | 2.5 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 0.14 | broken up |
| 69.19 | 1.52 | 6.00 | 1.65 | 108.55 | 0.25 | 16.45 | 23 | 2 | W3.5 | R | 3.0 | 6.0 | 14.0 | 81.0 | 123.0 | 12.0 | 3 | 4 | 12 | 3 | 4 | 43.1 | |
| 70.71 | 1.52 | 7.00 | 1.41 | 92.76 | 0.00 | 0.00 | 21 | 2 | W3.5 | R | 3.0 | 6.0 | 4.0 | 75.0 | 87.0 | 12.0 | 3 | 4 | 12 | 3 | 4 | 9.5 | |
| 72.24 | 1.53 | 8.00 | 1.59 | 103.92 | 0.74 | 48.37 | 14 | 1 | W3.5 | R | 3.0 | 6.0 | 12.0 | 94.0 | 111.0 | 14.0 | 3 | 2 | 14 | 3 | 2 | 54.6 | chalcopyrite on joint surfaces |
| 73.76 | 1.52 | 9.00 | 1.42 | 93.42 | 0.43 | 28.29 | 17 | 2 | W3.5 | R | 3.0 | 6.0 | 3.0 | 60.0 | 130.0 | 14.0 | 3 | 2 | 14 | 3 | 2 | 2.1 | chalcopyrite on joint surfaces |
| 75.29 | 1.53 | 10.00 | 1.54 | 100.65 | 0.30 | 19.61 | 18 | 2 | W3.5 | R | 3.0 | 6.0 | 4.0 | 73.0 | 86.0 | 14.0 | 3 | 2 | 14 | 1.5 | 4 | 20.9 | |
| 76.81 | 1.52 | 11.00 | 1.54 | 101.32 | 0.90 | 59.21 | 14 | 3 | W3.5 | R | 3.0 | 6.0 | 14.0 | 66.0 | 126.0 | 14.0 | 3 | 4 | 14 | 1.5 | 2 | 69.7 | |
| 78.33 | 1.52 | 12.00 | 1.59 | 104.61 | 0.24 | 15.79 | 22 | 2 | W3.5 | R | 3.0 | 6.0 | 2.0 | 65.0 | 106.0 | 14.0 | 3 | 4 | 14 | 3 | 2 | 3.22 | |
| 79.86 | 1.53 | 13.00 | 1.42 | 92.81 | 0.99 | 64.71 | 11 | 1 | W3.5 | R | 3.0 | 6.0 | 3.0 | 69.0 | 117.0 | 14.0 | 3 | 2 | 14 | 3 | 2 | 5.92 | specks of malachite on joint surfaces |
| 81.38 | 1.52 | 14.00 | 1.61 | 105.92 | 0.56 | 36.84 | 15 | 2 | W3.0 | R | 3.0 | 6.0 | 3.0 | 51.0 | 105.0 | 14.0 | 3 | 2 | 14 | 1.5 | 2 | 3.42 | specks of malachite on joint surfaces |
| 82.91 | 1.53 | 15.00 | 1.48 | 96.73 | 1.20 | 78.43 | 7 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 55.0 | 107.0 | 16.0 | 3 | 1 | 14 | 3 | 2 | 7.33 | |
| 84.43 | 1.52 | 16.00 | 1.51 | 99.34 | 0.73 | 48.03 | 13 | 2 | W3 | R | 3.0 | 6.0 | 3.0 | 45.0 | 114.0 | 14.0 | 3 | 4 | 16 | 1.5 | 2 | 6.8 | |
| 85.95 | 1.52 | 17.00 | 1.45 | 95.39 | 0.97 | 63.82 | 13 | 1 | W3 | R | 3.0 | 3.0 | 4.0 | 24.0 | 151.0 | 14.0 | 1.5 | 4 | 16 | 1.5 | 4 | 2.5 | |
| 87.48 | 1.53 | 18.00 | 1.51 | 98.69 | 1.06 | 69.28 | 12 | 2 | W3 | R | 3.0 | 3.0 | 3.0 | 50.0 | 110.0 | 14.0 | 3 | 4 | 16 | 1.5 | 4 | 3.05 | |
| 88.09 | 0.61 | 19.00 | 0.71 | 116.39 | 0.45 | 73.77 | 6 | 1 | W3 | R | 3.0 | 4.0 | 4.0 | 43.0 | 125.0 | 14.0 | 3 | 1 | 16 | 1.5 | 2 | 0 | |
| 89.00 | 0.91 | 20.00 | 0.77 | 84.62 | 0.41 | 45.05 | 5 | 1 | W3 | R | 3.0 | 3.0 | 3.0 | 68.0 | 123.0 | 14.0 | 3 | 2 | 16 | 1.5 | 2 | 2.03 | |
| 90.53 | 1.53 | 21.00 | 1.37 | 89.54 | 0.63 | 41.18 | 12 | 1 | W3 | R | 3.0 | 6.0 | 5.0 | 150.0 | 68.0 | 16.0 | 3 | 4 | 16 | 3 | 2 | 0.25 | specks of malachite on joint surfaces |
| 92.05 | 1.52 | 22.00 | 1.58 | 103.95 | 1.00 | 65.79 | 11 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 64.0 | 120.0 | 16.0 | 1.5 | 2 | 16 | 3 | 2 | 0.2 | specks of malachite on joint surfaces |
| 93.57 | 1.52 | 23.00 | 1.64 | 107.89 | 0.98 | 64.47 | 9 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 68.0 | 152.0 | 16.0 | 3 | 2 | 16 | 1.5 | 2 | 1.2 | |
| 95.10 | 1.53 | 24.00 | 1.49 | 97.39 | 0.50 | 32.68 | 14 | 1 | W3 | R | 3.0 | 6.0 | 5.0 | 49.0 | 163.0 | 18.0 | 3 | 1 | 18 | 3 | 1 | 0.32 | |
| 96.62 | 1.52 | 25.00 | 1.63 | 107.24 | 0.96 | 63.16 | 13 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 26.0 | 160.0 | 18.0 | 3 | 2 | 18 | 3 | 2 | 0.73 | |
| 98.15 | 1.53 | 26.00 | 1.53 | 100.00 | 0.77 | 50.33 | 12 | 1 | W3 | R | 3.0 | 4.0 | 3.0 | 24.0 | 120.0 | 18.0 | 1.5 | 2 | 18 | 3 | 2 | 0.18 | |
| 99.67 | 1.52 | 27.00 | 1.50 | 98.68 | 0.75 | 49.34 | 10 | 1 | W3 | R | 3.0 | 6.0 | 8.0 | 37.0 | 122.0 | 18.0 | 3 | 1 | 18 | 1.5 | 2 | 0.05 | |
| 101.19 | 1.52 | 28.00 | 1.56 | 102.63 | 1.05 | 69.08 | 10 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 16.0 | 136.0 | 18.0 | 3 | 4 | 18 | 3 | 2 | 0.91 | possible epidote or chlorite on joint surfaces? |
| 102.72 | 1.53 | 29.00 | 1.61 | 105.23 | 0.74 | 48.37 | 11 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 58.0 | 126.0 | 18.0 | 1.5 | 4 | 18 | 3 | 2 | 0.29 | |
| 104.24 | 1.52 | 30.00 | 1.39 | 91.45 | 1.15 | 75.66 | 9 | 2 | W3 | R | 3.0 | 4.0 | 5.0 | 49.0 | 134.0 | 18.0 | 1.5 | 2 | 18 | 3 | 1 | 0.32 | |
| 105.77 | 1.53 | 31.00 | 1.42 | 92.81 | 1.24 | 81.05 | 5 | 1 | W3 | R | 3.0 | 3.0 | 4.0 | 40.0 | 151.0 | 18.0 | 3 | 1 | 18 | 3 | 1 | 0.49 | |
| 107.29 | 1.52 | 32.00 | 1.58 | 103.95 | 0.45 | 29.61 | 12 | 1 | W3 | R | 3.0 | 12.0 | 8.0 | 59.0 | 112.0 | 18.0 | 3 | 2 | 18 | 3 | 2 | 0.67 | part of interval is very broken up |
| 108.81 | 1.52 | 33.00 | 1.78 | 117.11 | 0.11 | 7.24 | 17 | 2 | W3 | R | 3.0 | 6.0 | 3.0 | 66.0 | 105.0 | 18.0 | 3 | 2 | 18 | 3 | 2 | 2.96 | part of interval is very broken up |
| 110.34 | 1.53 | 34.00 | 1.61 | 105.23 | 0.12 | 7.84 | 21 | 2 | W3 | R | 3.0 | 6.0 | 6.0 | 54.0 | 97.0 | 18.0 | 3 | 4 | 18 | 3 | 2 | 2.65 | chalcopyrite on joint surfaces |
| 111.86 | 1.52 | 35.00 | 1.60 | 105.26 | 0.25 | 16.45 | 23 | 2 | W3 | R | 3.0 | 3.0 | 4.0 | 70.0 | - | 18.0 | 3 | 2 | 18 | 3 | 2 | 2.23 | |
| 113.39 | 1.53 | 36.00 | 1.59 | 103.92 | 0.28 | 18.30 | 17 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 62.0 | 116.0 | 18.0 | 3 | 2 | 18 | 3 | 2 | 2.54 | |
| 114.91 | 1.52 | 37.00 | 1.60 | 105.26 | 0.53 | 34.87 | 17 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 62.0 | 120.0 | 18.0 | 3 | 2 | 18 | 1.5 | 2 | 1.18 | micas on joint surfaces |
| 116.43 | 1.52 | 38.00 | 1.36 | 89.47 | 0.69 | 45.39 | 11 | 1 | W3 | R | 3.0 | 12.0 | 5.0 | 69.0 | 106.0 | 18.0 | 3 | 2 | 18 | 3 | 2 | 0.14 | micas on joint surfaces |
| 117.96 | 1.53 | 39.00 | 1.65 | 107.84 | 0.76 | 49.67 | 9 | 1 | W3 | R | 3.0 | 3.0 | 6.0 | 180.0 | - | 18.0 | 3 | 2 | 18 | 3 | 2 | 0.25 | micas on joint surfaces |
| 119.48 | 1.52 | 40.00 | 1.43 | 94.08 | 0.86 | 56.58 | 14 | 2 | W3 | R | 3.0 | 6.0 | 9.0 | 68.0 | 119.0 | 18.0 | 3 | 2 | 18 | 3 | 2 | 0.25 | specks of malachite on joint surfaces |

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Tuesday, Sept 3, 2005

Recorded by: Matthew R. Kochtubajda

Project Number: _____ 05SWC-029

| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 66 | D | L | - | NQ | 1980 | broke along a fracture, heavly weathered |
| 66 | A | - | 32 | NQ | 4580 | broke along a fracture, visible malachite |
| 71 | D | L | - | NQ | 2600 | broke along a fracture, lots of biotite |
| 71 | A | - | 31 | NQ | 6920 | broke along a fracture |
| 78 | D | - | - | NQ | 9180 | broke along a fracture, pegematitic dyke |
| 78 | A | - | 31 | NQ | 12840 | broke along a fracture, mostly qtz |
| 84 | D | - | - | NQ | 4800 | |
| 84 | A | - | 31 | NQ | 1580 | broke along a fracture |
| 89 | D | - | - | NQ | 13520 | lots of qtz, crs grained |
| 89 | A | - | 31.5 | NQ | 16260 | broke along a fracture |
| 92 | D | - | - | NQ | OFL | mostly qtz, crs grained |
| 92 | A | - | 35 | NQ | 15820 | broke along a fracture |
| 98 | D | - | - | NQ | 13960 | |
| 98 | A | - | 33.5 | NQ | 12260 | broke along a fracture, mostly qtz |
| 105 | D | - | - | NQ | OFL | very crs grained (crystalline) |
| 105 | A | - | 33 | NQ | 7540 | broke along a fracture |
| 112 | D | II | - | NQ | 16080 | |
| 112 | A | - | 34 | NQ | 15340 | broke along a fracture |
| 114 | D | - | - | NQ | 19920 | (crystalline grained) |
| 114 | A | - | 33 | NQ | 12280 | broke along a fracture |
| 122 | D | - | - | NQ | 19000 | mostly qtz, crs grained |
| 122 | A | - | 31.5 | NQ | 11100 | broke along a fracture |
| 126 | D | - | - | NQ | 12120 | broke along a fracture |
| 126 | A | - | 33 | NQ | 5160 | broke along a fracture |
| 130 | D | - | - | NQ | 6640 | broke along a fracture |
| 130 | A | - | 31.5 | NQ | 10540 | broke along a fracture |

TYPE:

D - Diametral  L - Perpendicular

A - Axial  // - Parallel

DDH: 05SWC-029 Box: 1 to Box: 4
Date: Wed Sept 14 2005 From: 62.79 m To: 85.37m
05-SWC-029 Bx1
62.79m - 68.23m
63.09
63.40
64.62
66.14
67.67
05-SWC-029 Bx2
68.23m - 73.90m
69.19
70.71
72.24
05-SWC-029-Bx3
73.90m - 79.58m
78.81
78.33
05-SWC-029-Bx4
79.58m - 85.37m
79.66
82.91
85.37m

DDH 05SWC-029
Box: 5 to Box: 8
Date: Aug 5th 14 2005
From 85.37m To 108.04m
05-SWC-029-Bx5
85.37m - 91.29m
85.95
89.00
90.53
05-SWC-029-Bx6
91.29m - 96.73m
93.57
95.10
96.62
96.77m - 102.41m
97
98
99
100
101
102
05-SWC-029 Bx7
05-SWC-029 Bx8
102.41m - 108.04m
103
104.24
105
106
107.24
108.04m

DDH: 05SWC - 029 Box: 9 to Box: 13
Date: Wed Sept 14 2005 From: 108.04 m To: 131.08 m
108.04m - 113.00m
108.81
113.00m
113.00m - 118.38m
113.39
114.91
117.96
118.38m
118.38m - 123.53m
117.48
122.53
123.53m
123.53m - 128.77
124.05
125.58
127.10
128.65
128.77m - 131.08m

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 030

Date Hole Started: Wednesday, September 14, 2005
Date Hole Finished: Thursday, September 15, 2005
Total Hole Depth (m): 97.67
Depth of Casing (m):
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 72.24 | | | | | | | | | | | | | | | | | | | | | | | overburden (no measurments recorded) |
| 73.46 | 1.22 | 1.00 | 0.25 | 20.49 | 0.00 | 0.00 | 9999 | - | W6 | R | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 2.48 | crushed up bits of rock with silt and sand |
| 74.98 | 1.52 | 2.00 | 1.71 | 112.50 | 0.44 | 28.95 | 19 | 2 | W5 | R | 1.0 | 0.5 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 1.93 | |
| 76.20 | 1.22 | 3.00 | 0.99 | 81.15 | 0.00 | 0.00 | 12 | 1 | W5 | R | 1.0 | 3.0 | 4.0 | 62.0 | - | 0.0 | 1 | 6 | 12 | 3 | 4 | 285 | |
| 76.81 | 0.61 | 4.00 | 0.16 | 26.23 | 0.00 | 0.00 | 9999 | - | W5 | R | 1.0 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 2.36 | interval consists of a couple bits of rock |
| 78.33 | 1.52 | 5.00 | 1.64 | 107.89 | 0.28 | 18.42 | 18 | 2 | W5 | R | 1.5 | 6.0 | 2.0 | 87.0 | 124.0 | 12.0 | 3 | 4 | 12 | 3 | 4 | 3.56 | |
| 79.86 | 1.53 | 6.00 | 1.60 | 104.58 | 0.26 | 16.99 | 18 | 2 | W4 | R | 2.0 | 3.0 | 4.0 | 88.0 | - | 12.0 | 1.5 | 4 | 12 | 1.5 | 4 | 0.76 | interval broken up |
| 80.47 | 0.61 | 7.00 | 0.60 | 98.36 | 0.18 | 29.51 | 4 | 0 | W4 | R | 2.0 | 0.5 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 3.11 | lots of weathered biotite |
| 81.99 | 1.52 | 8.00 | 1.65 | 108.55 | 0.73 | 48.03 | 10 | 1 | W4 | R | 3.0 | 6.0 | 8.0 | 37.0 | 157.0 | 12.0 | 3 | 4 | 12 | 3 | 4 | 0.32 | |
| 82.91 | 0.92 | 9.00 | 0.81 | 88.04 | 0.00 | 0.00 | 9999 | - | W4 | R | 2.0 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 2.94 | interval very broken up |
| 84.43 | 1.52 | 10.00 | 1.54 | 101.32 | 0.91 | 59.87 | 11 | 1 | W3.5 | R | 2.5 | 6.0 | 2.0 | 50.0 | 120.0 | 12.0 | 1.5 | 8 | 14 | 1.5 | 4 | 0.21 | |
| 85.95 | 1.52 | 11.00 | 1.08 | 71.05 | 0.40 | 26.32 | 5 | 1 | W3.5 | R | 2.5 | 3.0 | 4.0 | 57.0 | - | 0.0 | 1 | 6 | 14 | 3 | 4 | 0.05 | parts of interval are very broken up (crushed) |
| 87.17 | 1.22 | 12.00 | 1.39 | 113.93 | 0.50 | 40.98 | 4 | 0 | W3.5 | R | 2.5 | 3.0 | 2.0 | 53.0 | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.14 | parts of interval are very broken up (crushed) |
| 88.70 | 1.53 | 13.00 | 1.77 | 115.69 | 0.65 | 42.48 | 12 | 1 | W3.5 | R | 2.5 | 3.0 | 4.0 | 58.0 | - | 14.0 | 3 | 2 | 14 | 3 | 4 | 0.38 | |
| 90.53 | 1.83 | 14.00 | 1.52 | 83.06 | 0.95 | 51.91 | 10 | 1 | W3.5 | R | 2.5 | 6.0 | 4.0 | 61.0 | 139.0 | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.29 | |
| 90.83 | 0.30 | 15.00 | 0.43 | 143.33 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 2.5 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.09 | very broken up interval |
| 91.74 | 0.91 | 16.00 | 1.03 | 113.19 | 0.26 | 28.57 | 5 | 0 | W3.5 | R | 2.5 | 6.0 | 12.0 | 40.0 | 135.0 | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.53 | broken up interval |
| 92.66 | 0.92 | 17.00 | 1.06 | 115.22 | 0.11 | 11.96 | 8 | 1 | W3.5 | R | 3.0 | 6.0 | 2.0 | 25.0 | 180.0 | 14.0 | 1.5 | 4 | 14 | 3 | 4 | 0.31 | broken up interval |
| 93.27 | 0.61 | 18.00 | 0.54 | 88.52 | 0.00 | 0.00 | 4 | 0 | W3.5 | R | 3.0 | 3.0 | 4.0 | 60.0 | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.12 | broken up interval |
| 95.10 | 1.83 | 19.00 | 1.67 | 91.26 | 0.86 | 46.99 | 9 | 1 | W3.5 | R | 3.0 | 12.0 | 4.0 | 34.0 | 146.0 | 14.0 | 3 | 8 | 14 | 1.5 | 4 | 0.42 | |
| 96.62 | 1.52 | 20.00 | 1.41 | 92.76 | 0.90 | 59.21 | 9 | 1 | W3 | R | 3.0 | 3.0 | 8.0 | 180.0 | - | 16.0 | 3 | 2 | 16 | 3 | 4 | 0.53 | visible malachite on joint surfaces |
| 97.23 | 0.61 | 21.00 | 0.76 | 124.59 | 0.21 | 34.43 | 2 | 0 | W3 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 2 | 16 | 3 | 2 | 0 | sible malachite on joint surfaces, very broken up |
| 97.54 | 0.31 | 22.00 | 0.40 | 129.03 | 0.22 | 70.97 | 2 | 0 | W3 | R | 3.0 | 2.0 | 4.0 | 180.0 | - | 16.0 | 3 | 4 | 16 | 3 | 4 | 0.73 | E.O.H |
| | -97.54 | 23.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | |
| | 0.00 | 24.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 25.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 26.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 27.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 28.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 29.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 30.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 31.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 32.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 33.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 34.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 35.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 36.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 37.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 38.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 39.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 40.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Thursday, Sept 15, 2005

Recorded by: Matthew R. Kochtubajda

Project Number: _____ 05SWC-030

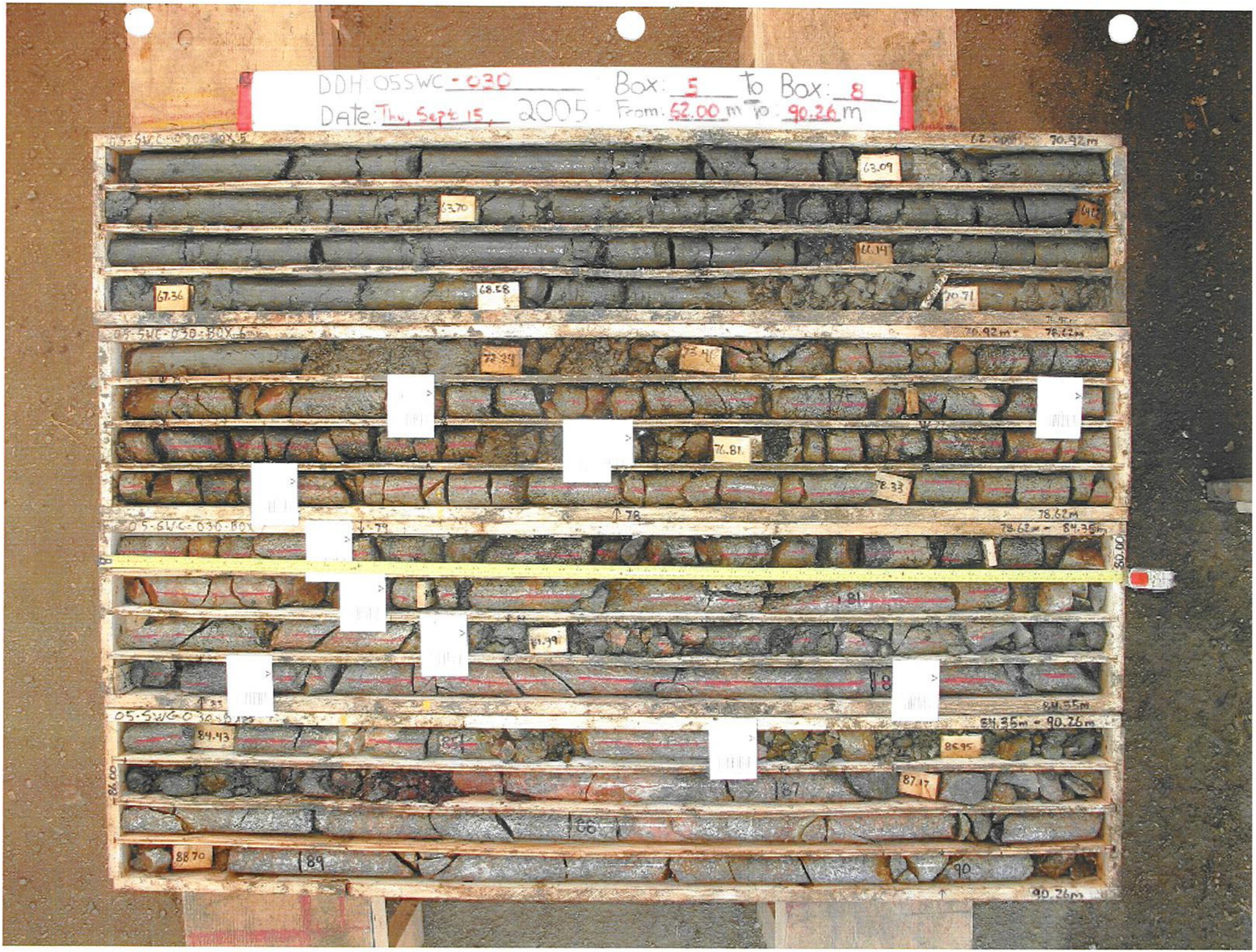
| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 77 | D | - | - | NQ | 3140 | |
| 77 | A | - | 30 | NQ | 1800 | broke along a fracture |
| 83 | D | - | - | NQ | 720 | broke along a fracture |
| 83 | A | - | 32 | NQ | 700 | broke along a fracture |
| 84 | D | - | - | NQ | 2140 | broke along a fracture |
| 84 | A | - | 31 | NQ | 5140 | broke along a fracture |
| 91 | D | - | - | NQ | 8740 | crs grained, qtz, biotite |
| 91 | A | - | 34 | NQ | 3980 | broke along a fracture |
| 97 | D | - | - | NQ | 14200 | lots of qtz, broke along a fracture |
| 97 | A | - | 31 | NQ | 900 | poor test, broke along a fracture |

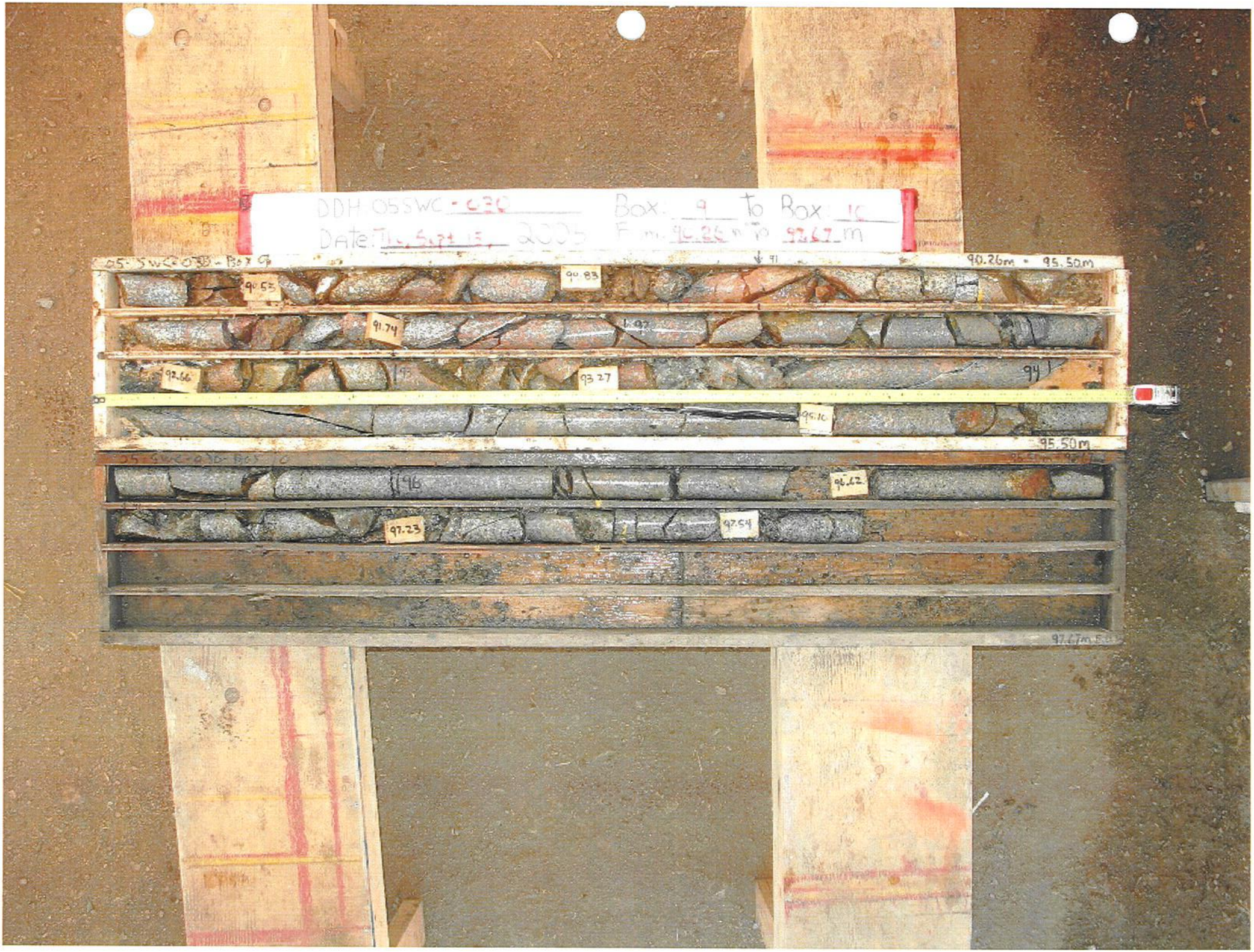
TYPE:

D - Diametral  L - Perpendicular

A - Axial  // - Parallel

DDH 05SWC-030 Box 1 to Box 4
Date: 14 Sept 15 2004 From 11.60 m to 62.00m
05-SWC-030 BOX 1
11.60m - 26.52m
11.60
12.80
15.72
14.02
14.33
16.76
17.07
17.68
17.83
17.98
22.86
23.47
24.99
26.52
26.52m
05-SWC-030 BOX 2
26.52m - 39.19m
26.82
27.13
27.38
29.57
31.09
32.61
34.14
34.19m
05-SWC-030 BOX 3
34.19m - 54.38m
50.90
52.43
53.95
54.38m
54.38m - 62.00m
55.47
57.00
60.05
61.57
62.00m


DDH 05SWC-030 Box: 5 To Box: 8
Date: Thu, Sept 15, 2005 From: 62.00 m To 90.26 m
05-SWC-030-BOX-5
62.00m
70.92m
63.09
67.36
68.58
70.71
05-SWC-030-BOX-6
70.92m - 78.62m
76.81
78.33
78.62m
05-SWC-030-BOX
78.62m - 84.35m
84.43
84.35m - 90.26m
86.95
87.17
88.70
90.26m


DDH 05SWC-030
Box 9 to Box 10
Date: Thu, Sept 15, 2005
From 90.26 m to 97.67 m
90.26m - 95.50m
90.53
90.83
91.74
92.66
93.27
95.10
95.50m
96.62
97.23
97.54

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 031

Date Hole Started: Friday, September 16, 2005
Date Hole Finished: Friday, September 16, 2005
Total Hole Depth (m): 99.21
Depth of Casing (m): 63.86
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 63.86 | | | | | | | | | | | | | | | | | | | | | | | overburden (no measurments were recorded) |
| 64.31 | 0.45 | 1.00 | 0.45 | 100.00 | 0.00 | 0.00 | 9999 | - | W4 | R | 2.5 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 12 | 3 | 4 | 3.2 | very broken up interval |
| 64.62 | 0.31 | 2.00 | 0.24 | 77.42 | 0.00 | 0.00 | 9999 | - | W4 | R | 2.5 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 6.4 | broken up interval |
| 66.14 | 1.52 | 3.00 | 0.41 | 26.97 | 0.00 | 0.00 | 9999 | - | W4 | R | 2.5 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 12 | 3 | 4 | 2.25 | broken up interval |
| 67.67 | 1.53 | 4.00 | 0.49 | 32.03 | 0.00 | 0.00 | 9999 | - | W4 | R | 2.5 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 12 | 3 | 4 | 0.93 | broken up interval |
| 69.19 | 1.52 | 5.00 | 0.40 | 26.32 | 0.00 | 0.00 | 9999 | - | W4 | R | 2.5 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 12 | 3 | 4 | 0.69 | broken up interval |
| 70.71 | 1.52 | 6.00 | 0.56 | 36.84 | 0.15 | 9.87 | 9999 | - | W4 | R | 2.5 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 4.73 | broken up interval |
| 72.24 | 1.53 | 7.00 | 1.39 | 90.85 | 0.00 | 0.00 | 9999 | - | W4 | R | 2.5 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 1.18 | broken up interval |
| 73.76 | 1.52 | 8.00 | 1.10 | 72.37 | 0.00 | 0.00 | 9999 | - | W4 | R | 2.5 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 0 | broken up interval |
| 75.29 | 1.53 | 9.00 | 1.44 | 94.12 | 0.00 | 0.00 | 9999 | - | W4 | R | 2.5 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 12 | 3 | 4 | 0.67 | broken up interval |
| 76.81 | 1.52 | 10.00 | 1.09 | 71.71 | 0.00 | 0.00 | 9999 | - | W4 | R | 2.5 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 2 | 0.03 | visible malachite, broken up |
| 78.33 | 1.52 | 11.00 | 1.45 | 95.39 | 0.00 | 0.00 | 9999 | - | W4 | R | 2.5 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 12 | 3 | 2 | 0.01 | visible malachite and azaurite, broken up |
| 79.86 | 1.53 | 12.00 | 1.38 | 90.20 | 0.00 | 0.00 | 9999 | - | W4 | R | 2.5 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 12 | 3 | 2 | 0 | visible malachite, broken up |
| 81.38 | 1.52 | 13.00 | 1.34 | 88.16 | 0.13 | 8.55 | 9 | 1 | W3.5 | R | 3.0 | 6.0 | 3.0 | 63.0 | 180.0 | 12.0 | 3 | 4 | 12 | 3 | 2 | 0.09 | visible malachite |
| 82.91 | 1.53 | 14.00 | 1.54 | 100.65 | 1.32 | 86.27 | 8 | 2 | W3 | R | 3.0 | 6.0 | 4.0 | 40.0 | 144.0 | 14.0 | 3 | 2 | 14 | 1.5 | 4 | 0.14 | |
| 84.43 | 1.52 | 15.00 | 1.44 | 94.74 | 0.45 | 29.61 | 9 | 1 | W3 | R | 3.0 | 6.0 | 5.0 | 40.0 | 142.0 | 14.0 | 3 | 2 | 14 | 3 | 2 | 1.28 | |
| 85.95 | 1.52 | 16.00 | 1.69 | 111.18 | 0.43 | 28.29 | 15 | 2 | W3 | R | 3.0 | 6.0 | 3.0 | 37.0 | 149.0 | 14.0 | 3 | 2 | 14 | 3 | 2 | 4.13 | visible malachite, broken up |
| 87.48 | 1.53 | 17.00 | 1.47 | 96.08 | 0.75 | 49.02 | 13 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 33.0 | 130.0 | 14.0 | 3 | 2 | 14 | 1.5 | 2 | 1.61 | visible malachite |
| 89.00 | 1.52 | 18.00 | 1.65 | 108.55 | 0.26 | 17.11 | 16 | 2 | W3 | R | 3.0 | 3.0 | 16.0 | 40.0 | 154.0 | 14.0 | 3 | 2 | 14 | 1.5 | 2 | 0.53 | visible malachite |
| 92.05 | 3.05 | 19.00 | 2.85 | 93.44 | 1.96 | 64.26 | 14 | 2 | W2.5 | R | 3.0 | 6.0 | 3.0 | 37.0 | 131.0 | 16.0 | 3 | 2 | 16 | 1.5 | 2 | 0.31 | |
| 93.57 | 1.52 | 20.00 | 1.60 | 105.26 | 1.14 | 75.00 | 5 | 1 | W2 | R | 3.0 | 6.0 | 5.0 | 51.0 | 108.0 | 16.0 | 3 | 2 | 16 | 3 | 2 | 0.69 | |
| 95.10 | 1.53 | 21.00 | 1.61 | 105.23 | 0.73 | 47.71 | 13 | 1 | W2 | R | 3.0 | 12.0 | 3.0 | 43.0 | 180.0 | 16.0 | 3 | 2 | 18 | 1.5 | 2 | 0.54 | visible malachite |
| 96.62 | 1.52 | 22.00 | 1.53 | 100.66 | 1.32 | 86.84 | 6 | 1 | W2 | R | 3.0 | 6.0 | 3.0 | 65.0 | 88.0 | 18.0 | 1.5 | 2 | 18 | 1.5 | 2 | 0.78 | |
| 98.15 | 1.53 | 23.00 | 1.55 | 101.31 | 1.21 | 79.08 | 7 | 1 | W2 | R | 3.0 | 6.0 | 5.0 | 33.0 | 135.0 | 18.0 | 3 | 2 | 18 | 1.5 | 2 | 0.8 | visible malachite |
| 99.21 | 1.06 | 24.00 | 1.06 | 100.00 | 0.84 | 79.25 | 3 | 0 | W2 | R | 3.0 | 3.0 | 3.0 | 30.0 | - | 18.0 | 3 | 1 | 18 | 1.5 | 1 | 1.13 | E.O.H. |
| | -99.21 | 25.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | |
| | 0.00 | 26.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 27.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 28.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 29.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 30.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 31.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 32.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 33.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 34.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 35.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 36.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 37.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 38.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 39.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 40.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Friday, Sept 16, 2005

Recorded by: Matthew R. Kochtubajda

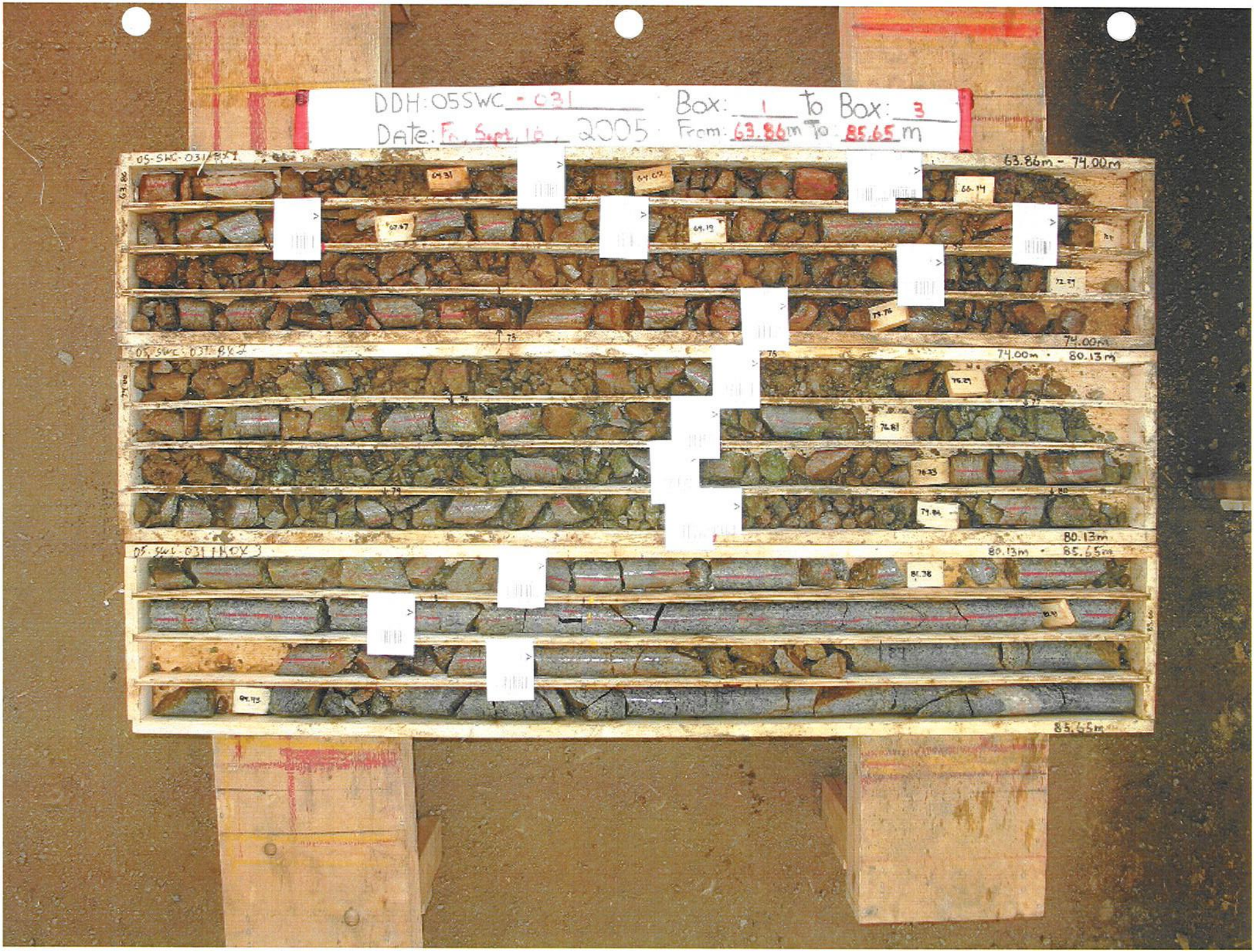
Project Number: _____ 05SWC-031

| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 82 | D | - | - | NQ | 19620 | crs grained, lots of qtz |
| 82 | A | - | 34 | NQ | 18820 | lots of qtz |
| 90 | D | - | - | NQ | OFL | sample would not break |
| 90 | A | - | 35.5 | NQ | 14340 | broke along a fracture |
| 96 | D | - | - | NQ | 17420 | broke along a fracture |
| 96 | A | - | 30 | NQ | 11620 | broke along a fracture |
| 98 | D | - | - | NQ | OFL | qtz vein |
| 98 | A | - | 32.5 | NQ | 13680 | broke along a fracture |

TYPE:

D - Diametral  L - Perpendicular

A - Axial  // - Parallel


DDH: 05SWC - 031 Box: 1 to Box: 3
Date: Fri. Sept. 16, 2005 From: 63.86m To: 85.65 m
05-SWC-031 BX 1
63.86m - 74.00m
74.00m
05 SWC 031 BX 2
74.00m - 80.13m
80.13m
05 SWC 031 BOX 3
80.13m - 85.65m
85.65m

DDH: 05SWC - 031
Box: 4 to Box: 6
Date: Fri. Sept. 16 2005
From: 85.65m to: 99.21 m
05. SWC - 031 BOX 6
85.65m - 91.12m
87.48
89.40
91.12m
91.12m - 96.62m
92.05
93.91
95.10
96.62m
96.62m - 99.21m
05. SWC 031 - BOX 6
31 96.62
98.15
99.21 E.O.H
99.21m E.O.H

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 032

Date Hole Started: Tuesday, September 20, 2005
Date Hole Finished:
Total Hole Depth (m):
Depth of Casing (m):
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 64.62 | | | | | | | | | | | | | | | | | | | | | | | overburden - no measurments recorded |
| 67.67 | 3.05 | 1.00 | 0.29 | 9.51 | 0.00 | 0.00 | 9999 | - | W6 | S | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.45 | mostly sand mixed with bits of rock |
| 68.58 | 0.91 | 2.00 | 0.38 | 41.76 | 0.00 | 0.00 | 9999 | - | W4 | R | 1.5 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 37.8 | bits of rock with specks of malachite |
| 70.71 | 2.13 | 3.00 | 1.96 | 92.02 | 0.55 | 25.82 | 18 | 1 | W3 | R | 3.0 | 6.0 | 6.0 | 54.0 | 180.0 | 12.0 | 3 | 4 | 12 | 3 | 4 | 4.79 | broken up, visible specks of malachite, lots of biotite |
| 71.32 | 0.61 | 4.00 | 0.57 | 93.44 | 0.00 | 0.00 | 6 | 1 | W3 | R | 3.0 | 3.0 | 4.0 | 66.0 | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 18.7 | lots of biotite (crs grained) |
| 71.93 | 0.61 | 5.00 | 0.78 | 127.87 | 0.23 | 37.70 | 8 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 69.0 | 110.0 | 12.0 | 3 | 4 | 12 | 3 | 4 | 24.6 | |
| 72.54 | 0.61 | 6.00 | 0.70 | 114.75 | 0.00 | 0.00 | 3 | 0 | W3 | R | 3.0 | 3.0 | 10.0 | 37.0 | - | 13.0 | 3 | 2 | 14 | 3 | 2 | 5.65 | specks of chalcopyriteon joint surfaces |
| 73.76 | 1.22 | 7.00 | 1.39 | 113.93 | 0.11 | 9.02 | 9999 | - | W3 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 8.5 | very broken up |
| 75.29 | 1.53 | 8.00 | 1.62 | 105.88 | 0.58 | 37.91 | 15 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 68.0 | 123.0 | 14.0 | 3 | 4 | 14 | 3 | 2 | 13.5 | |
| 76.81 | 1.52 | 9.00 | 0.13 | 8.55 | 0.00 | 0.00 | 9999 | - | W3 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 3.64 | s of rockwith specks of malachite and chalcopyrite |
| 77.42 | 0.61 | 10.00 | 0.71 | 116.39 | 0.15 | 24.59 | 4 | 0 | W3 | R | 3.0 | 6.0 | 7.0 | 28.0 | 123.0 | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.65 | |
| 78.64 | 1.22 | 11.00 | 1.21 | 99.18 | 0.68 | 55.74 | 5 | 1 | W3 | R | 3.0 | 3.0 | 6.0 | 31.0 | - | 14.0 | 3 | 4 | 14 | 3 | 2 | 1.09 | |
| 78.94 | 0.30 | 12.00 | 0.28 | 93.33 | 0.17 | 56.67 | 3 | 1 | W3 | R | 3.0 | 2.0 | 3.0 | 50.0 | - | 14.0 | 3 | 2 | 16 | 3 | 2 | 2.03 | very short run |
| 79.86 | 0.92 | 13.00 | 0.85 | 92.39 | 0.24 | 26.09 | 9 | 1 | W3 | R | 3.0 | 4.0 | 8.0 | 51.0 | 116.0 | 16.0 | 3 | 2 | 16 | 3 | 2 | 16.4 | |
| 81.38 | 1.52 | 14.00 | 1.54 | 101.32 | 0.93 | 61.18 | 13 | 1 | W2.5 | R | 3.0 | 3.0 | 7.0 | 46.0 | 126.0 | 16.0 | 3 | 2 | 16 | 3 | 2 | 2.47 | lots of malachite on joint surfaces |
| 82.91 | 1.53 | 15.00 | 1.54 | 100.65 | 1.36 | 88.89 | 5 | 1 | W2.5 | R | 3.0 | 6.0 | 3.0 | 58.0 | 122.0 | 18.0 | 1.5 | 2 | 18 | 1.5 | 2 | 0.21 | |
| 84.12 | 1.21 | 16.00 | 1.25 | 103.31 | 0.70 | 57.85 | 8 | 1 | W2.5 | R | 3.0 | 3.0 | 3.0 | 86.0 | 155.0 | 18.0 | 1.5 | 2 | 18 | 1.5 | 2 | 1.93 | |
| 85.34 | 1.22 | 17.00 | 1.20 | 98.36 | 0.98 | 80.33 | 5 | 0 | W2.5 | R | 3.0 | 3.0 | 3.0 | 81.0 | - | 16.0 | 3 | 2 | 18 | 3 | 1 | 0.4 | |
| 85.95 | 0.61 | 18.00 | 0.65 | 106.56 | 0.49 | 80.33 | 3 | 1 | W2.5 | R | 3.0 | 2.0 | 3.0 | 72.0 | - | 18.0 | 1.5 | 1 | 18 | 1.5 | 1 | 1.46 | |
| 86.56 | 0.61 | 19.00 | 0.71 | 116.39 | 0.62 | 101.64 | 2 | 2 | W2.5 | R | 3.0 | 2.0 | 4.0 | 89.0 | - | 18.0 | 1.5 | 1 | 18 | 1.5 | 1 | 0.54 | |
| 88.09 | 1.53 | 20.00 | 1.62 | 105.88 | 0.80 | 52.29 | 10 | 1 | W2.5 | R | 3.0 | 12.0 | 4.0 | 39.0 | 106.0 | 18.0 | 3 | 2 | 18 | 3 | 2 | 0.49 | |
| 89.00 | 0.91 | 21.00 | 0.84 | 92.31 | 0.45 | 49.45 | 6 | 1 | W2.5 | R | 3.0 | 6.0 | 3.0 | 60.0 | 106.0 | 18.0 | 3 | 2 | 18 | 3 | 2 | 0.16 | |
| 89.92 | 0.92 | 22.00 | 0.86 | 93.48 | 0.73 | 79.35 | 2 | 0 | W2.5 | R | 3.0 | 3.0 | 4.0 | 56.0 | 125.0 | 18.0 | 3 | 1 | 18 | 3 | 2 | 0.65 | |
| 90.22 | 0.30 | 23.00 | 0.37 | 123.33 | 0.37 | 123.33 | 1 | 1 | W2 | R | 3.0 | 0.5 | - | - | - | 18.0 | 3 | 1 | 18 | 3 | 1 | 0.71 | |
| 91.74 | 1.52 | 24.00 | 1.48 | 97.37 | 0.58 | 38.16 | 6 | 1 | W2 | R | 3.0 | 6.0 | 6.0 | 180.0 | 74.0 | 18.0 | 3 | 3 | 18 | 3 | 3 | 0.18 | |
| 93.27 | 1.53 | 25.00 | 1.57 | 102.61 | 1.33 | 86.93 | 7 | 1 | W2 | R | 3.0 | 6.0 | 5.0 | 68.0 | 89.0 | 18.0 | 3 | 2 | 18 | 3 | 2 | 0.23 | |
| 94.79 | 1.52 | 26.00 | 1.51 | 99.34 | 1.47 | 96.71 | 6 | 1 | W2 | R | 3.0 | 3.0 | 3.0 | 74.0 | - | 18.0 | 1.5 | 2 | 18 | 1.5 | 2 | 0.36 | E.O.H. |
| | -94.79 | 27.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | |
| | 0.00 | 28.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 29.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 30.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 31.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 32.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 33.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 34.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 35.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 36.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 37.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 38.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 39.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 40.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Tuesday, Sept 20, 2005

Recorded by: Matthew R. Kochtubajda

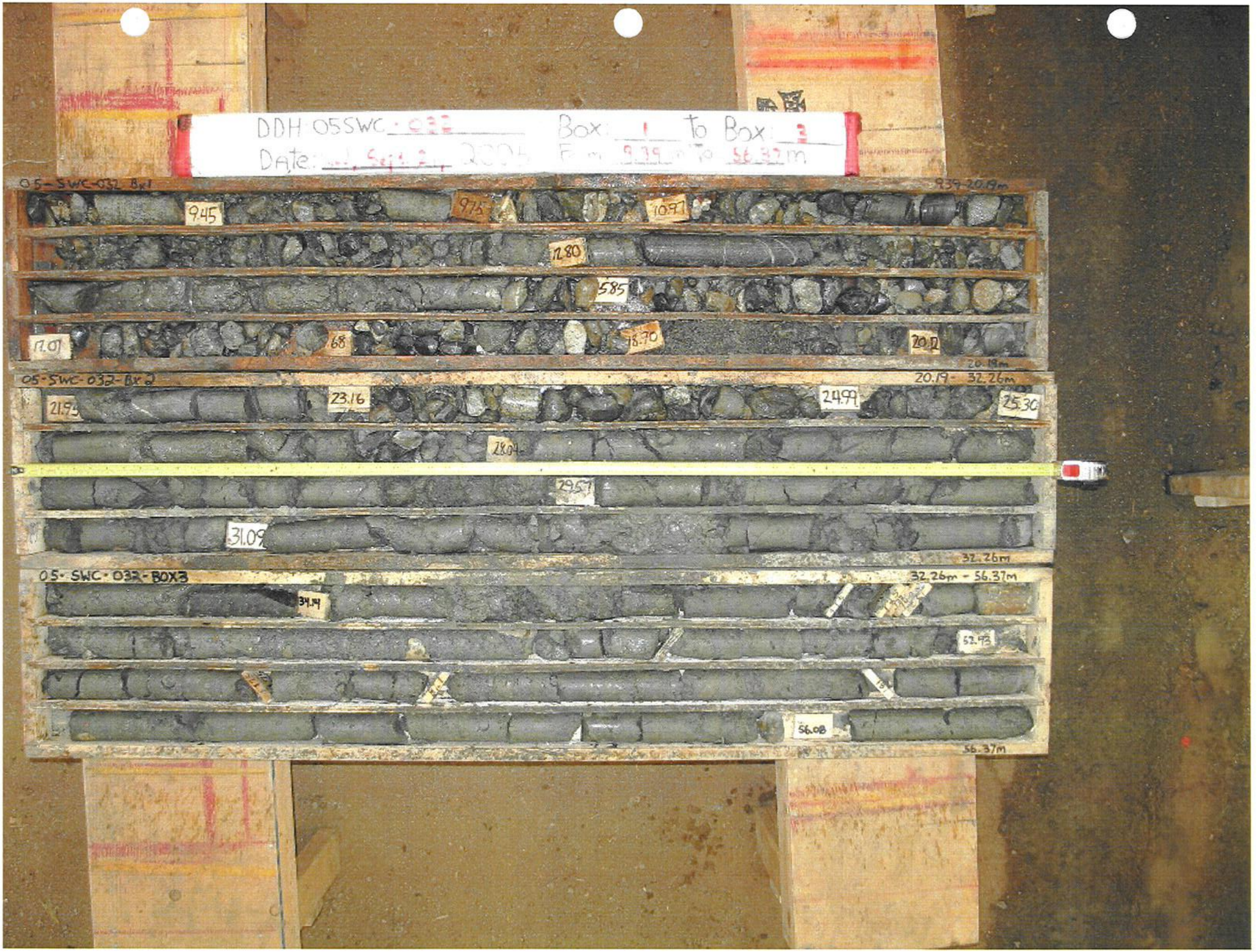
Project Number: _____ 05SWC-032

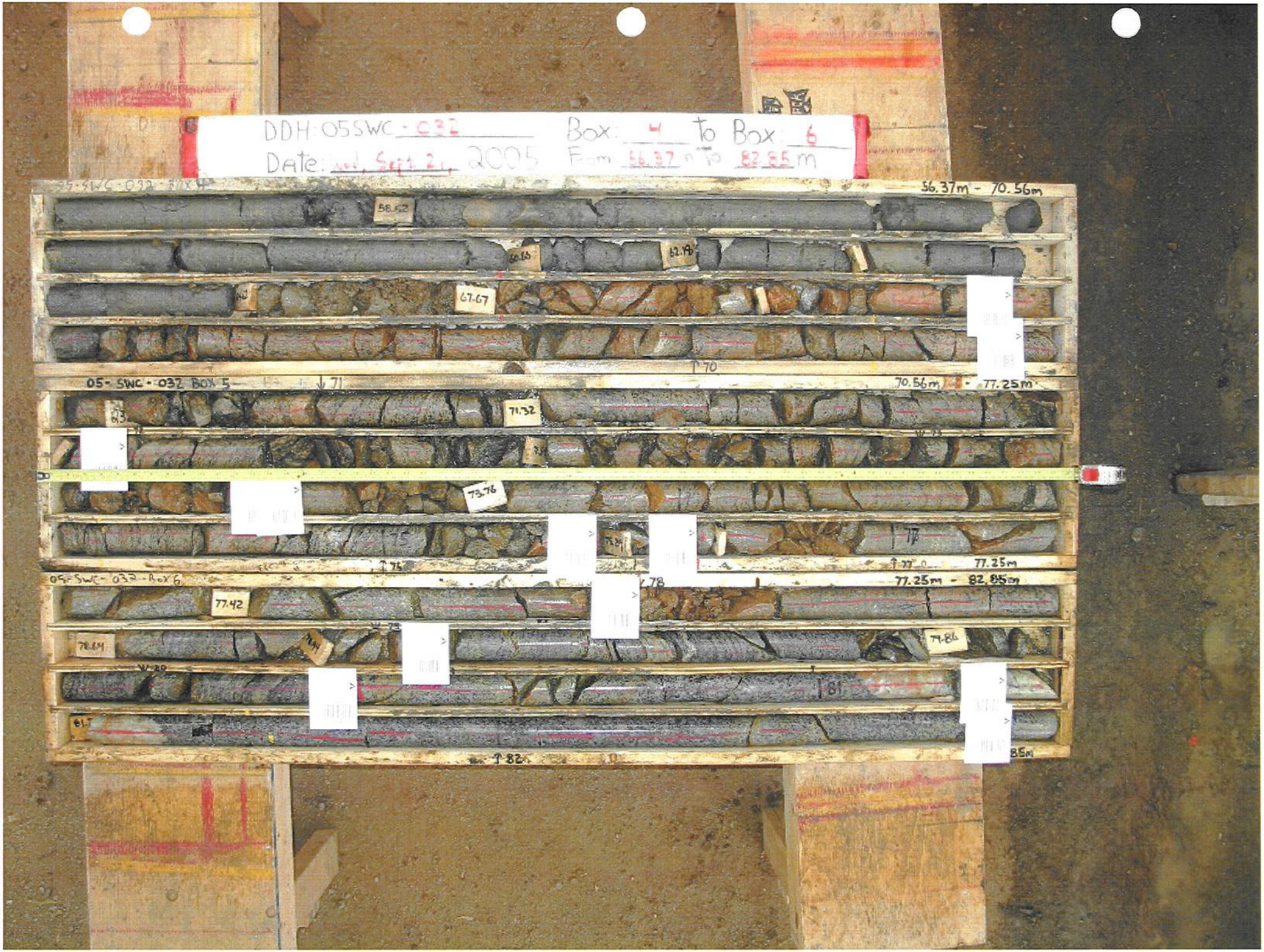
| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 70 | D | - | - | NQ | 2920 | ke along a fracture, malachite on joint wa |
| 70 | A | - | 31 | NQ | 4140 | broke along a fracture, crs grained biotite |
| 74 | D | L | - | NQ | 1720 | crs grained biotite |
| 74 | A | - | 32 | NQ | 1180 | broke along a fracture |
| 81 | D | - | - | NQ | 10160 | mostly qtz |
| 81 | A | - | 32 | NQ | 14240 | ecks of chalcopyrite, broke along a fractu |
| 84 | D | - | - | NQ | 7540 | lots of qtz, crs grained |
| 84 | A | - | 32 | NQ | 14820 | broke along a fracture |
| 89 | D | - | - | NQ | 14420 | |
| 89 | A | - | 34 | NQ | 8540 | broke along a fracture |
| 94 | D | - | - | NQ | 19360 | |
| 94 | A | - | 35 | NQ | 12120 | broke along a fracture |

TYPE:

D - Diametral  L - Perpendicular

A - Axial  // - Parallel


DDH 05SWC-032 Box: 1 to Box: 3
Date: Sept 2, 2005 From 9.39 m To 56.37m
05-SWC-032 Bx1
9.39-20.19m
9.45
9.75
10.97
12.80
15.85
17.07
18.70
20.19m
05-SWC-032-Bx2
20.19-32.26m
21.95
23.16
24.99
25.30
28.04
29.57
31.09
32.26m
05-SWC-032-BOX3
32.26m-56.37m
34.14
52.73
56.08
56.37m


DDH: 05SWC-032 Box: 4 to Box: 6
Date: Wed. Sept 21, 2005 From 56.37 m To 82.85 m
56.37m - 70.56m
05-SWC-032 Box 5
70.56m - 77.25m
05-SWC-032-Box 6
77.25m - 82.85m

DDH: 05SWC - 032
Box: 7 to Box: 9
Date: Wed, Sept 21, 2005
From: 82.85 m to 94.79 m
82.85m - 88.09m
88.09m - 93.81m
93.81m - 94.79m
94.79 E.O.H

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 033

Date Hole Started: Sunday September 18, 2005
Date Hole Finished: Sunday September 18, 2005
Total Hole Depth (m): 113.69
Depth of Casing (m): 54.86
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 54.86 | | | | | | | | | | | | | | | | | | | | | | | overburden- no measurments were recorded |
| 57.00 | 2.14 | 1.00 | 0.29 | 13.55 | 0.00 | 0.00 | 9999 | - | W4 | S | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.23 | mostly sand and gravel |
| 58.52 | 1.52 | 2.00 | 0.41 | 26.97 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 4.0 | 9999.0 | - | - | - | 12.0 | 1 | 2 | 12 | 3 | 2 | 0.4 | bits of rock, visible malachite and azurite |
| 60.05 | 1.53 | 3.00 | 0.31 | 20.26 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 4.0 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 0.93 | bits of crushed up rock |
| 61.57 | 1.52 | 4.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | block is in same spot as previous block |
| 63.09 | 1.52 | 5.00 | 0.24 | 15.79 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 12 | 3 | 4 | 0.29 | bits of crushed up rock |
| 64.01 | 0.92 | 6.00 | 0.47 | 51.09 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 2.0 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 0.12 | bits of crushed up rock |
| 64.62 | 0.61 | 7.00 | 0.57 | 93.44 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 2.5 | 3.0 | 5.0 | 180.0 | - | 12.0 | 3 | 2 | 12 | 3 | 2 | 0.42 | visible malachite |
| 64.92 | 0.30 | 8.00 | 0.31 | 103.33 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 2.5 | 9999.0 | - | - | - | 12.0 | 3 | 2 | 12 | 3 | 2 | 0.09 | visible malachite and azurite |
| 65.38 | 0.46 | 9.00 | 0.47 | 102.17 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 2.5 | 9999.0 | - | - | - | 12.0 | 3 | 2 | 12 | 3 | 2 | 0.07 | visible malachite and azurite |
| 66.14 | 0.76 | 10.00 | 0.70 | 92.11 | 0.13 | 17.11 | 9999 | - | W3.5 | R | 2.0 | 9999.0 | - | - | - | 12.0 | 3 | 2 | 12 | 3 | 2 | 0 | very broken up, visible malachite |
| 67.67 | 1.53 | 11.00 | 1.42 | 92.81 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 2.5 | 9999.0 | - | - | - | 12.0 | 3 | 2 | 12 | 3 | 2 | 0.18 | broken up interval, visible malachite |
| 69.19 | 1.52 | 12.00 | 1.45 | 95.39 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 2.5 | 9999.0 | - | - | - | 12.0 | 3 | 2 | 12 | 3 | 2 | 0.16 | broken up interval, visible malachite |
| 70.71 | 1.52 | 13.00 | 1.35 | 88.82 | 0.00 | 0.00 | 9 | 1 | W3.5 | R | 2.5 | 6.0 | 3.0 | 32.0 | 180.0 | 12.0 | 3 | 2 | 12 | 3 | 2 | 0 | broken up interval, visible malachite |
| 72.24 | 1.53 | 14.00 | 1.32 | 86.27 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 2.5 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0 | broken up interval |
| 73.76 | 1.52 | 15.00 | 1.45 | 95.39 | 0.23 | 15.13 | 9999 | - | W3.5 | R | 2.5 | 9999.0 | - | - | - | 14.0 | 1.5 | 2 | 14 | 3 | 2 | 0.16 | broken up interval, visible malachite |
| 75.29 | 1.53 | 16.00 | 0.79 | 51.63 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 2.5 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.1 | broken up interval |
| 76.81 | 1.52 | 17.00 | 1.47 | 96.71 | 0.24 | 15.79 | 9999 | - | W3.5 | R | 2.5 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.56 | broken up interval |
| 78.33 | 1.52 | 18.00 | 1.18 | 77.63 | 0.38 | 25.00 | 4 | 1 | W3.5 | R | 2.5 | 3.0 | 5.0 | 57.0 | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.09 | broken up interval |
| 79.86 | 1.53 | 19.00 | 1.44 | 94.12 | 0.83 | 54.25 | 5 | 1 | W3.5 | R | 2.5 | 3.0 | 4.0 | 71.0 | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.01 | |
| 81.38 | 1.52 | 20.00 | 1.56 | 102.63 | 0.90 | 59.21 | 7 | 2 | W3.5 | R | 2.0 | 3.0 | 5.0 | 75.0 | - | 14.0 | 3 | 2 | 14 | 3 | 4 | 0.14 | |
| 82.91 | 1.53 | 21.00 | 1.46 | 95.42 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 2.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 14 | 3 | 4 | 0.2 | very broken up |
| 84.43 | 1.52 | 22.00 | 2.08 | 136.84 | 0.15 | 9.87 | 9999 | - | W3.5 | R | 2.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.1 | very broken up |
| 85.95 | 1.52 | 23.00 | 1.69 | 111.18 | 0.25 | 16.45 | 9999 | - | W3.5 | R | 2.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.23 | broken up |
| 87.48 | 1.53 | 24.00 | 1.73 | 113.07 | 0.22 | 14.38 | 9999 | - | W3.5 | R | 2.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.01 | broken up |
| 89.00 | 1.52 | 25.00 | 1.16 | 76.32 | 0.45 | 29.61 | 9999 | - | W3.5 | R | 2.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.12 | broken up |
| 90.53 | 1.53 | 26.00 | 1.50 | 98.04 | 0.51 | 33.33 | 6 | 1 | W3.5 | R | 2.0 | 3.0 | 10.0 | 66.0 | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.23 | |
| 92.05 | 1.52 | 27.00 | 1.67 | 109.87 | 0.92 | 60.53 | 10 | 1 | W3.5 | R | 2.0 | 6.0 | 4.0 | 34.0 | 145.0 | 14.0 | 1.5 | 4 | 14 | 1.5 | 4 | 0.21 | |
| 93.57 | 1.52 | 28.00 | 1.93 | 126.97 | 0.48 | 31.58 | 9 | 1 | W3.5 | R | 1.5 | 3.0 | 3.0 | 57.0 | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0 | broken up |
| 95.10 | 1.53 | 29.00 | 1.54 | 100.65 | 0.40 | 26.14 | 13 | 1 | W3.5 | R | 2.0 | 6.0 | 4.0 | 43.0 | 135.0 | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.1 | broken up |
| 96.62 | 1.52 | 30.00 | 1.58 | 103.95 | 0.38 | 25.00 | 12 | 1 | W3.5 | R | 2.0 | 6.0 | 3.0 | 46.0 | 142.0 | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.14 | |
| 98.15 | 1.53 | 31.00 | 1.84 | 120.26 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 2.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 14 | 3 | 4 | 0.45 | very broken up |
| 99.67 | 1.52 | 32.00 | 1.64 | 107.89 | 1.03 | 67.76 | 11 | 1 | W3.5 | R | 3.0 | 6.0 | 3.0 | 39.0 | 119.0 | 14.0 | 3 | 4 | 14 | 1.5 | 4 | 0.4 | |
| 101.19 | 1.52 | 33.00 | 1.53 | 100.66 | 0.77 | 50.66 | 13 | 2 | W3.5 | R | 3.0 | 3.0 | 7.0 | 44.0 | - | 14.0 | 3 | 4 | 14 | 3 | 2 | 0.6 | |
| 102.72 | 1.53 | 34.00 | 1.77 | 115.69 | 0.40 | 26.14 | 15 | 1 | W3.5 | R | 3.0 | 3.0 | 2.0 | 41.0 | - | 14.0 | 3 | 4 | 16 | 3 | 4 | 0.03 | |
| 104.24 | 1.52 | 35.00 | 1.45 | 95.39 | 0.27 | 17.76 | 7 | 1 | W3.5 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 4 | 16 | 3 | 4 | 0 | very broken up |
| 105.77 | 1.53 | 36.00 | 1.50 | 98.04 | 0.11 | 7.19 | 9999 | - | W3.5 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 4 | 16 | 3 | 4 | 0 | very broken up |
| 107.29 | 1.52 | 37.00 | 2.00 | 131.58 | 1.29 | 84.87 | 11 | 1 | W3.5 | R | 2.0 | 6.0 | 5.0 | 35.0 | 149.0 | 0.0 | 1 | 6 | 16 | 3 | 4 | 0.6 | |
| 108.81 | 1.52 | 38.00 | 1.63 | 107.24 | 1.13 | 74.34 | 7 | 1 | W3.5 | R | 2.0 | 3.0 | 3.0 | 48.0 | - | 16.0 | 3 | 4 | 16 | 1.5 | 4 | 0.91 | |
| 110.34 | 1.53 | 39.00 | 1.50 | 98.04 | 0.31 | 20.26 | 11 | 1 | W3.5 | R | 3.0 | 6.0 | 8.0 | 54.0 | 180.0 | 14.0 | 3 | 4 | 14 | 3 | 4 | 0 | very broken up |
| 111.86 | 1.52 | 40.00 | 1.38 | 90.79 | 0.55 | 36.18 | 4 | 0 | W3.5 | R | 3.0 | 3.0 | 7.0 | 37.0 | - | 14.0 | 3 | 4 | 16 | 3 | 2 | 0.34 | |

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Sunday, Sept 18, 2005

Recorded by: Matthew R. Kochtubajda

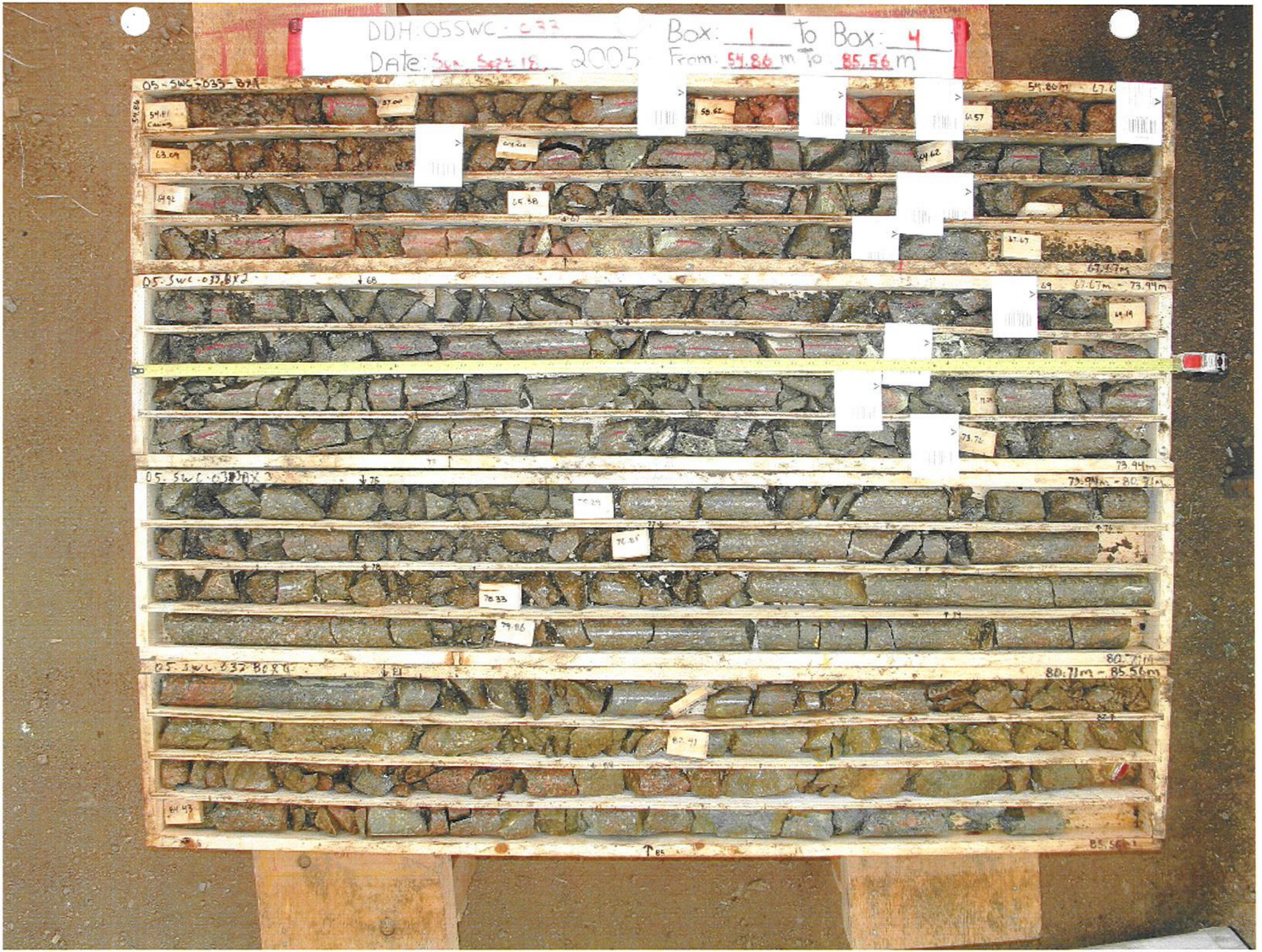
Project Number: _____ 05SWC-033

| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 73 | D | - | - | NQ | 2000 | crs grained |
| 73 | A | - | 31 | NQ | 1620 | broke along a fracture |
| 80 | D | - | - | NQ | 9380 | |
| 80 | A | - | 30 | NQ | 3800 | broke along a fracture |
| 84 | D | - | - | NQ | 2180 | poor test, broke along a fracture |
| 84 | A | - | 32 | NQ | 2440 | poor test, broke along a fracture |
| 87 | D | - | - | NQ | 1960 | broke along a fracture, brittle |
| 87 | A | - | 31 | NQ | 740 | poor test, broke along a fracture |
| 95 | D | - | - | NQ | 840 | poor test, broke along a fracture |
| 95 | A | - | 34 | NQ | 1860 | broke along a fracture |
| 98 | D | - | - | NQ | 2600 | |
| 98 | A | - | 34.5 | NQ | 5960 | broke along a fracture |
| 105 | D | - | - | NQ | 2100 | broke along a fracture |
| 105 | A | - | 32.5 | NQ | 1320 | broke along a fracture |
| 111 | D | - | - | NQ | 6480 | broke along a fracture |
| 111 | A | - | 32 | NQ | 4100 | broke along a fracture |
| 112 | D | - | - | NQ | 1940 | |
| 112 | A | - | 31 | NQ | 2060 | broke along a fracture |

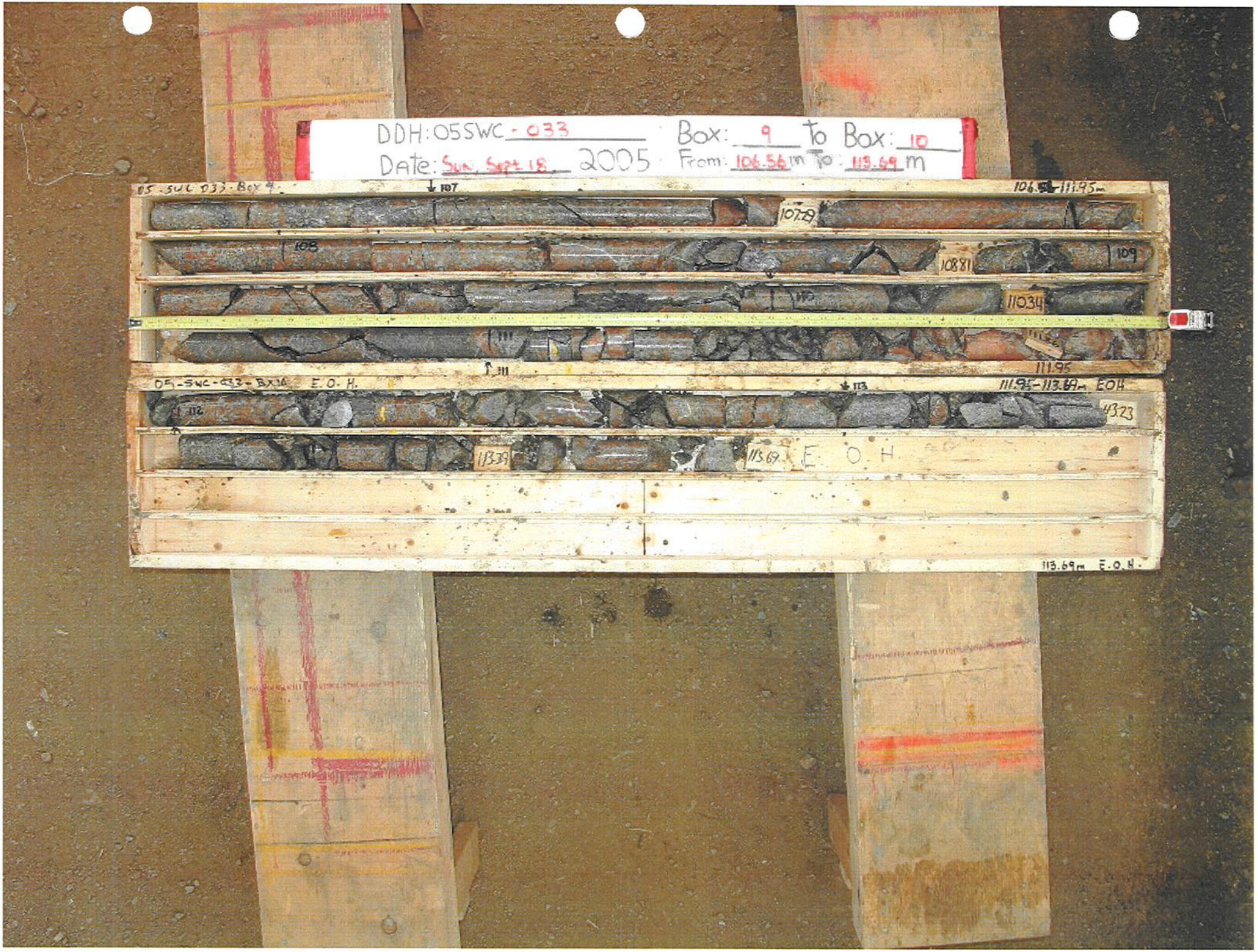
TYPE:

D - Diametral  L - Perpendicular

A - Axial  // - Parallel


DDH: 05SWC-033
Date: Sun. Sept 18, 2005
Box: 1 to Box: 4
From: 54.86 m to 85.56 m
05-SWC-033-BX1
54.86m
67.67m
05-SWC-033-BX2
67.67m - 73.94m
73.94m
05-SWC-033-BX3
73.94m - 80.71m
80.71m
05-SWC-033-BOX4
80.71m - 85.56m
85.56m

DDH: 05SWC - 033
Box: 5 to Box: 8
Date: Sun Sept 18 2005
From: 85.56 m To: 106.56 m
05-SWC-033-Box 5
85.56m - 91.36m
91.36m
05-SWC-033-Box 6
91.36m - 96.39m
96.39m
05-SWC-033-Box 7
96.39m - 101.19m
101.19m
05-SWC-033-Box 8
101.19m - 106.56m
106.56m


DDH: 05SWC-033
Box: 9 to Box: 10
Date: Sun, Sept 18 2005
From: 106.56 m To: 113.69 m
05-SWC-033-Box 9
107
106.56-111.95m
107.29
108
108.81
109
110
110.34
111
111.95
05-SWC-033-Box 10 E.O.H.
113
111.95-113.69m EOH
112
113.23
113.39
113.69
E.O.H.
113.69m E.O.H.

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 034

Date Hole Started: Wednesday, September 21, 2005
Date Hole Finished:
Total Hole Depth (m): 133.2
Depth of Casing (m): 55.42
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 55.42 | | | | | | | | | | | | | | | | | | | | | | | overburden- no measurments recorded |
| 55.47 | 0.05 | 1.00 | 0.06 | 120.00 | 0.00 | 0.00 | 9999 | - | W3 | R | 5.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.71 | bits of rock with sand and clay |
| 56.08 | 0.61 | 2.00 | 0.77 | 126.23 | 0.35 | 57.38 | 2 | 0 | W3 | R | 3.0 | 2.0 | 5.0 | 51.0 | - | 0.0 | 1 | 6 | 14 | 3 | 4 | 0.45 | |
| 57.30 | 1.22 | 3.00 | 0.32 | 26.23 | 0.00 | 0.00 | 9999 | - | W3 | R | 2.5 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 1.88 | broken up interval |
| 59.13 | 1.83 | 4.00 | 0.23 | 12.57 | 0.12 | 6.56 | 9999 | - | W3 | R | 2.5 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.36 | broken up interval |
| 60.35 | 1.22 | 5.00 | 0.00 | 0.00 | 0.00 | 0.00 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | no core recovered in this interval |
| 61.57 | 1.22 | 6.00 | 1.01 | 82.79 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 2.5 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 1.42 | broken core |
| 63.09 | 1.52 | 7.00 | 0.86 | 56.58 | 0.11 | 7.24 | 9999 | - | W3.5 | R | 2.5 | 9999.0 | - | - | - | 12.0 | 3 | 2 | 12 | 3 | 2 | 9.46 | broken core with specks of malachite |
| 64.62 | 1.53 | 8.00 | 1.04 | 67.97 | 0.13 | 8.50 | 9999 | - | W3.5 | R | 2.5 | 9999.0 | - | - | - | 12.0 | 3 | 2 | 12 | 3 | 2 | 0.65 | broken core with specks of malachite |
| 66.45 | 1.83 | 9.00 | 1.38 | 75.41 | 0.00 | 0.00 | 9999 | - | W3.5 | R | 2.5 | 9999.0 | - | - | - | 12.0 | 3 | 2 | 12 | 3 | 2 | 0.31 | broken core with specks of malachite |
| 67.67 | 1.22 | 10.00 | 1.03 | 84.43 | 0.00 | 0.00 | 17 | 1 | W3.5 | R | 2.5 | 6.0 | 4.0 | 89.0 | 105.0 | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.82 | broken up interval |
| 68.88 | 1.21 | 11.00 | 1.34 | 110.74 | 0.39 | 32.23 | 11 | 1 | W3.5 | R | 2.5 | 3.0 | 6.0 | 57.0 | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 1.99 | broken up interval |
| 69.80 | 0.92 | 12.00 | 1.06 | 115.22 | 0.12 | 13.04 | 14 | 1 | W3.5 | R | 2.5 | 6.0 | 5.0 | 69.0 | 109.0 | 14.0 | 1.5 | 4 | 16 | 1.5 | 4 | 0.87 | |
| 70.71 | 0.91 | 13.00 | 0.76 | 83.52 | 0.11 | 12.09 | 9 | 1 | W3 | R | 3.0 | 3.0 | 4.0 | 71.0 | - | 16.0 | 3 | 4 | 16 | 3 | 4 | 1.35 | |
| 72.24 | 1.53 | 14.00 | 1.47 | 96.08 | 0.85 | 55.56 | 17 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 59.0 | 75.0 | 16.0 | 3 | 2 | 16 | 3 | 4 | 1.18 | specks of chalcopyrite on joint surfaces |
| 73.15 | 0.91 | 15.00 | 1.23 | 135.16 | 0.41 | 45.05 | 10 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 65.0 | 107.0 | 14.0 | 3 | 4 | 16 | 3 | 4 | 0.91 | |
| 74.68 | 1.53 | 16.00 | 1.52 | 99.35 | 0.81 | 52.94 | 14 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 67.0 | 111.0 | 16.0 | 1.5 | 2 | 16 | 1.5 | 2 | 12 | specks of chalcopyrite on joint surfaces |
| 76.20 | 1.52 | 17.00 | 1.57 | 103.29 | 0.93 | 61.18 | 12 | 1 | W3 | R | 3.0 | 3.0 | 4.0 | 76.0 | 114.0 | 16.0 | 3 | 2 | 16 | 1.5 | 2 | 10.7 | chalcopyrite on joint surfaces, crs grained biotite |
| 76.81 | 0.61 | 18.00 | 0.41 | 67.21 | 0.28 | 45.90 | 2 | 0 | W3 | R | 3.0 | 0.5 | - | - | - | 16.0 | 3 | 2 | 16 | 3 | 2 | 7.92 | |
| 78.33 | 1.52 | 19.00 | 1.60 | 105.26 | 0.55 | 36.18 | 11 | 1 | W3 | R | 3.0 | 12.0 | 16.0 | 33.0 | 102.0 | 14.0 | 3 | 4 | 16 | 3 | 6 | 6.16 | |
| 79.25 | 0.92 | 20.00 | 0.84 | 91.30 | 0.00 | 0.00 | 11 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 22.0 | 55.0 | 16.0 | 3 | 2 | 16 | 3 | 4 | 7.08 | |
| 80.77 | 1.52 | 21.00 | 1.70 | 111.84 | 0.33 | 21.71 | 19 | 2 | W3 | R | 3.0 | 12.0 | 4.0 | 24.0 | 149.0 | 16.0 | 3 | 4 | 16 | 3 | 4 | 1.92 | |
| 82.14 | 1.37 | 22.00 | 1.21 | 88.32 | 0.48 | 35.04 | 11 | 1 | W3 | R | 3.0 | 3.0 | 5.0 | 51.0 | - | 16.0 | 3 | 4 | 16 | 3 | 4 | 3.01 | |
| 82.91 | 0.77 | 23.00 | 0.67 | 87.01 | 0.00 | 0.00 | 9999 | - | W3 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 16 | 3 | 2 | 1.73 | specks of malachite on joint surfaces |
| 84.12 | 1.21 | 24.00 | 1.28 | 105.79 | 0.26 | 21.49 | 10 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 10.0 | 146.0 | 16.0 | 3 | 4 | 16 | 3 | 2 | 0.05 | |
| 85.34 | 1.22 | 25.00 | 1.30 | 106.56 | 0.93 | 76.23 | 8 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 40.0 | 135.0 | 18.0 | 3 | 1 | 18 | 3 | 1 | 0.32 | |
| 86.87 | 1.53 | 26.00 | 1.56 | 101.96 | 1.30 | 84.97 | 6 | 1 | W2.5 | R | 3.0 | 2.0 | 4.0 | 41.0 | - | 18.0 | 1.5 | 1 | 18 | 1.5 | 1 | 0.56 | |
| 88.39 | 1.52 | 27.00 | 1.19 | 78.29 | 0.82 | 53.95 | 6 | 1 | W2.5 | R | 3.0 | 6.0 | 4.0 | 34.0 | 139.0 | 18.0 | 1 | 2 | 18 | 1.5 | 2 | 0.78 | |
| 89.00 | 0.61 | 28.00 | 0.51 | 83.61 | 0.43 | 70.49 | 0 | 2 | W2 | R | 3.0 | 0.5 | - | - | - | 18.0 | 3 | 1 | 18 | 3 | 1 | 0.73 | only mechanicl breaks |
| 90.53 | 1.53 | 29.00 | 1.25 | 81.70 | 0.67 | 43.79 | 9 | 1 | W2 | R | 3.0 | 12.0 | 4.0 | 59.0 | 137.0 | 18.0 | 3 | 1 | 18 | 3 | 1 | 0.54 | |
| 92.05 | 1.52 | 30.00 | 1.51 | 99.34 | 1.26 | 82.89 | 5 | 1 | W2 | R | 3.0 | 4.0 | 3.0 | 59.0 | 135.0 | 18.0 | 3 | 1 | 18 | 1.5 | 2 | 0.1 | |
| 93.57 | 1.52 | 31.00 | 1.60 | 105.26 | 0.81 | 53.29 | 13 | 1 | W2 | R | 3.0 | 6.0 | 3.0 | 71.0 | 115.0 | 18.0 | 3 | 4 | 18 | 1.5 | 2 | 0.1 | |
| 95.10 | 1.53 | 32.00 | 1.65 | 107.84 | 1.03 | 67.32 | 9 | 1 | W2 | R | 3.0 | 6.0 | 4.0 | 42.0 | 153.0 | 0.0 | 1 | 6 | 18 | 1.5 | 1 | 0.38 | |
| 96.62 | 1.52 | 33.00 | 1.72 | 113.16 | 0.87 | 57.24 | 10 | 1 | W2 | R | 3.0 | 6.0 | 3.0 | 48.0 | 118.0 | 18.0 | 3 | 4 | 18 | 1.5 | 3 | 0.14 | |
| 98.15 | 1.53 | 34.00 | 1.48 | 96.73 | 1.10 | 71.90 | 8 | 1 | W2 | R | 3.0 | 3.0 | 3.0 | 48.0 | - | 18.0 | 3 | 2 | 18 | 1.5 | 4 | 0.2 | |
| 99.67 | 1.52 | 35.00 | 1.50 | 98.68 | 1.28 | 84.21 | 4 | 1 | W2 | R | 3.0 | 6.0 | 3.0 | 43.0 | 124.0 | 18.0 | 1.5 | 4 | 18 | 1.5 | 4 | 0.25 | |
| 101.19 | 1.52 | 36.00 | 1.56 | 102.63 | 1.38 | 90.79 | 8 | 1 | W2 | R | 3.0 | 4.0 | 3.0 | 46.0 | 110.0 | 18.0 | 1.5 | 1 | 18 | 1.5 | 1 | 0.14 | |
| 102.72 | 1.53 | 37.00 | 1.59 | 103.92 | 1.21 | 79.08 | 9 | 1 | W2 | R | 3.0 | 4.0 | 3.0 | 61.0 | 130.0 | 18.0 | 3 | 3 | 18 | 1.5 | 1 | 0.12 | |
| 104.24 | 1.52 | 38.00 | 1.48 | 97.37 | 1.08 | 71.05 | 6 | 3 | W2 | R | 3.5 | 3.0 | 4.0 | 28.0 | - | 18.0 | 1.5 | 2 | 18 | 3 | 1 | 0.65 | |
| 105.77 | 1.53 | 39.00 | 1.56 | 101.96 | 1.41 | 92.16 | 4 | 2 | W2 | R | 3.5 | 0.5 | - | - | - | 18.0 | 3 | 1 | 18 | 3 | 1 | 0.29 | |
| 107.29 | 1.52 | 40.00 | 1.49 | 98.03 | 0.97 | 63.82 | 10 | 1 | W2 | R | 3.5 | 6.0 | 2.0 | 37.0 | 125.0 | 18.0 | 1.5 | 8 | 18 | 1.5 | 3 | 0 | |

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Thursday, Sept 22, 2005

Recorded by: Matthew R. Kochtubajda

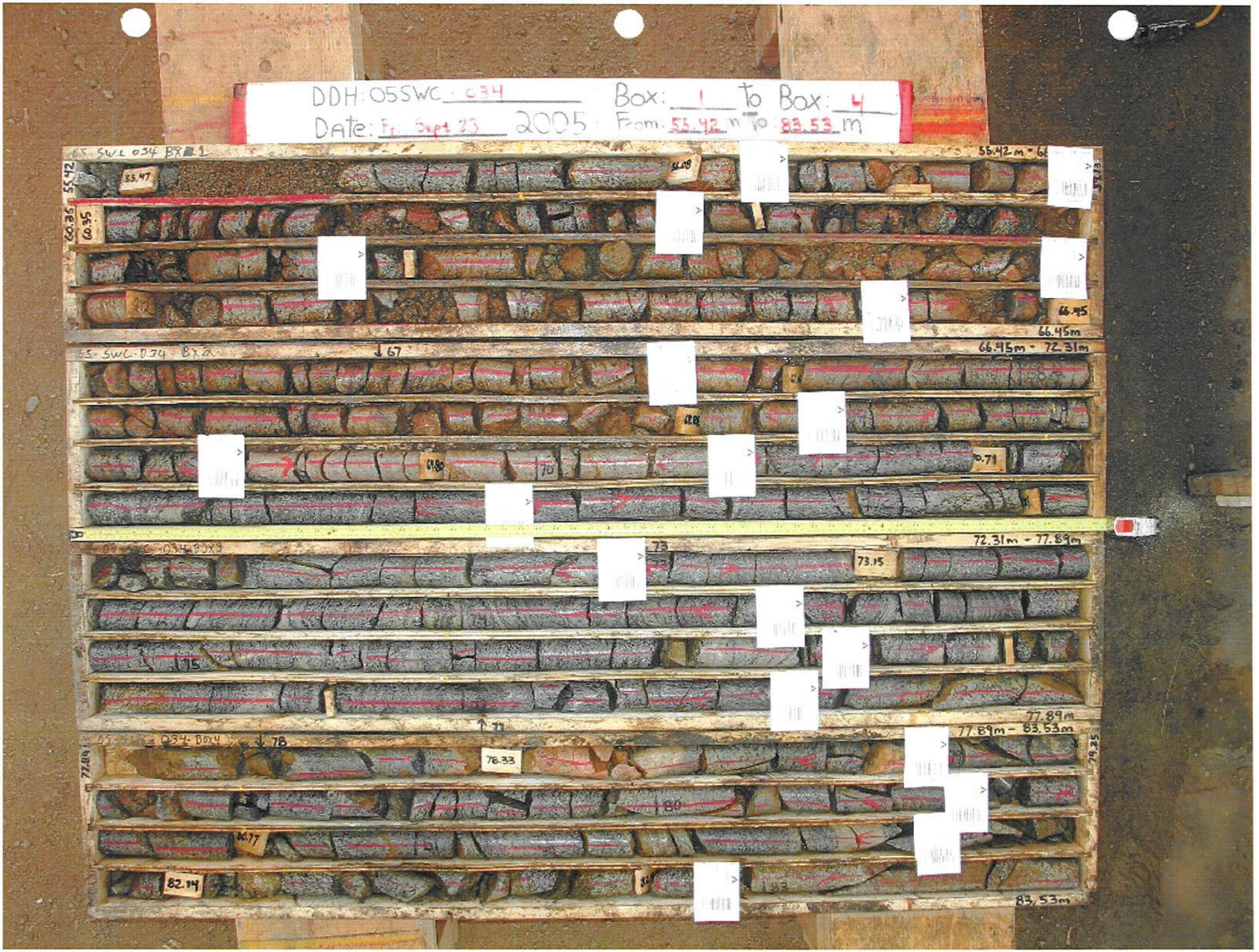
Project Number: _____ 05SWC-034

| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 56 | D | - | - | NQ | 9380 | med-grained |
| 56 | A | - | 30 | NQ | 9120 | broke along a fracture |
| 69 | D | - | - | NQ | 3880 | |
| 69 | A | - | 26.5 | NQ | 3920 | broke along a fracture |
| 75 | D | - | - | NQ | 8800 | lots of biotite |
| 75 | A | - | 33.5 | NQ | 10440 | crs grained, broke along a fracture |
| 79 | D | - | - | NQ | 17240 | broke along a fracture |
| 79 | A | - | 35 | NQ | 12180 | broke along a fracture |
| 86 | D | - | - | NQ | 18640 | qtz vein, crs-grained |
| 86 | A | - | 36 | NQ | OFL | qtz vein, broke along a fracture |
| 91 | D | - | - | NQ | OFL | sample would not break |
| 91 | A | - | 33 | NQ | 13580 | broke along a fracture |
| 96 | D | - | - | NQ | 8880 | |
| 96 | A | - | 35 | NQ | 12380 | broke along a fracture |
| 101 | D | - | - | NQ | 10460 | broke along a fracture |
| 101 | A | - | 34 | NQ | 16520 | broke along a fracture |
| 108 | D | - | - | NQ | 4320 | |
| 108 | A | - | 39 | NQ | 8360 | crs grained |
| 112 | D | - | - | NQ | 16000 | broke along a fracture, mosly qtz |
| 112 | A | - | 34 | NQ | 10860 | broke along a fracture, mosly qtz |
| 117 | D | - | - | NQ | 16400 | lots of qtz, crs grained |
| 117 | A | - | 32.5 | NQ | 12080 | broke along a fracture |
| 124 | D | - | - | NQ | 11700 | |
| 124 | A | - | 34 | NQ | 12060 | broke along a fracture, mosly qtz |
| 127 | D | - | - | NQ | 15080 | |
| 127 | A | - | 35.5 | NQ | 10040 | broke along a fracture |
| 131 | D | - | - | NQ | 18340 | |
| 131 | A | - | 30 | NQ | 10520 | broke along a fracture |

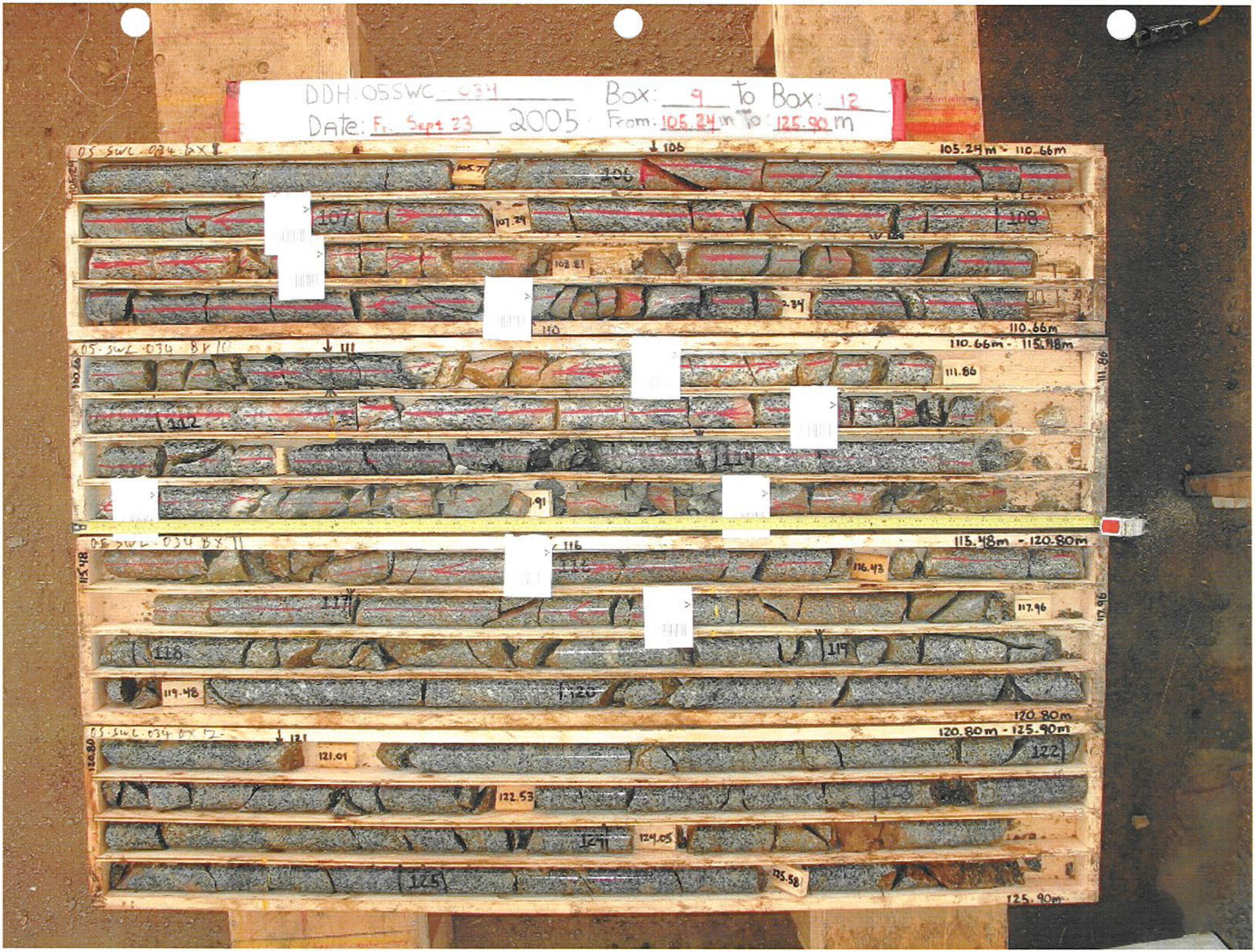
TYPE:

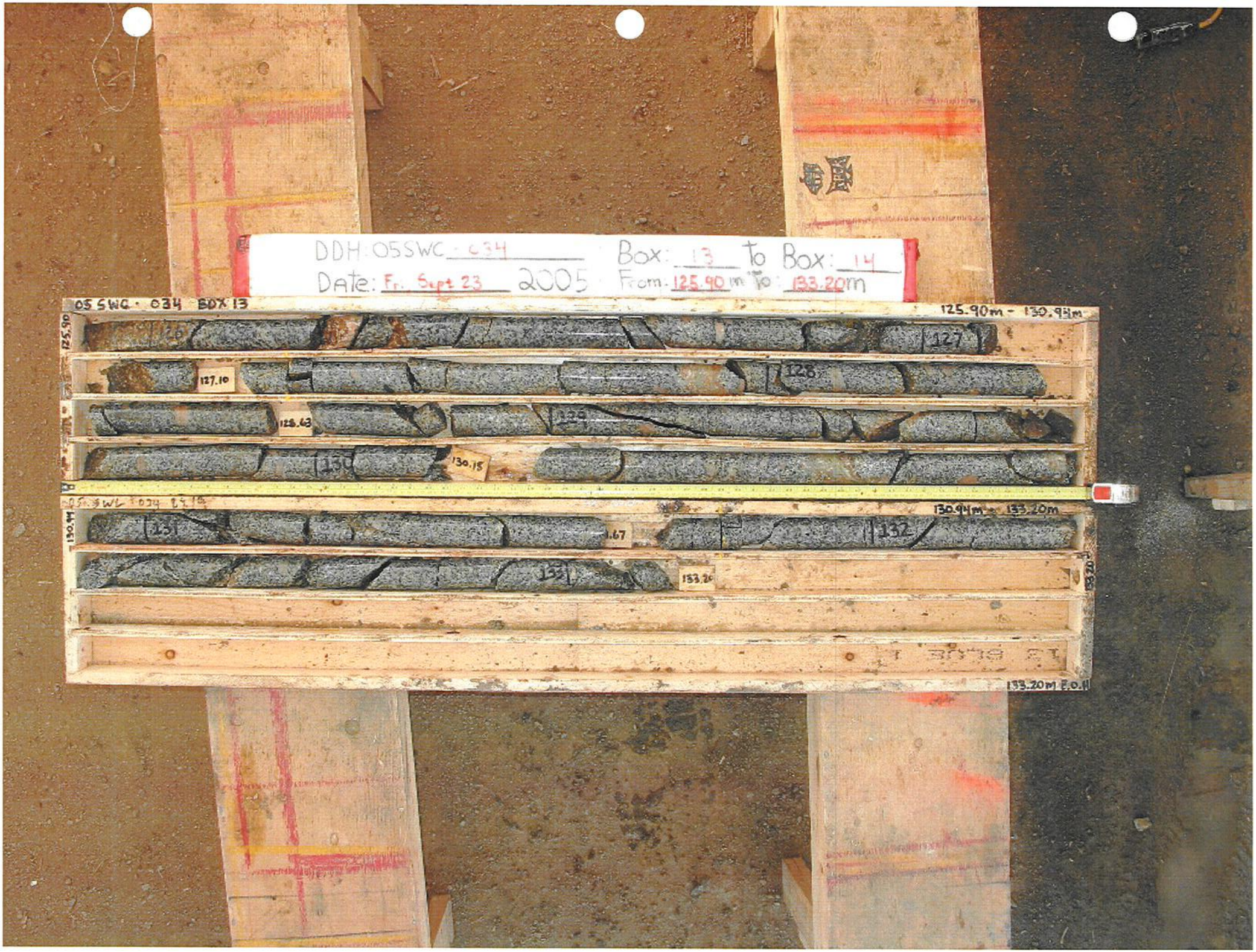
D - Diametral  L - Perpendicular

A - Axial  // - Parallel


DDH: 05SWC 034 Box: 1 to Box: 4
Date: Fri Sept 23 2005 From: 55.42 m To: 83.53 m
05 SWC 034 BX#1
55.42m - 66.45m
66.45m
05 SWC-034 BX2
66.45m - 72.31m
05 SWC-034 BOX3
72.31m - 77.89m
77.89m
05 SWC-034 Box4
77.89m - 83.53m
83.53m

DDH: 05SWC 034
Box: 5 to Box: 8
Date: Fri Sept 23 2005
From: 83.53 m to 105.24 m
05-SWC-034-BOX 5
83.53m - 89.23m
89.23m
05-SWC-034-BOX 6
89.23m - 94.60m
05-SWC-034-Bx7
94.60m - 99.67m
99.67m
05-SWC-034-Bx 8
99.67m - 105.24m
105.24m


DDH: 05SWC 034
Box: 9 to Box: 12
Date: Fr. Sept 23 2005
From: 105.24 m To: 125.90 m
105.24m - 110.66m
110.66m
110.66m - 115.48m
115.48m - 120.80m
120.80m
120.80m - 125.90m
125.90m


DDH: 05SWC - 034 Box: 13 to Box: 14
Date: Fri. Sept 23 2005 From: 125.90m To: 133.20m
05SWC - 034 BOX 13
125.90m - 130.94m
130.94m - 133.20m
133.20m E.O.H

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Sunday, Sept 25, 2005

Recorded by: Matthew R. Kochtubajda

Project Number: _____ 05SWC-035

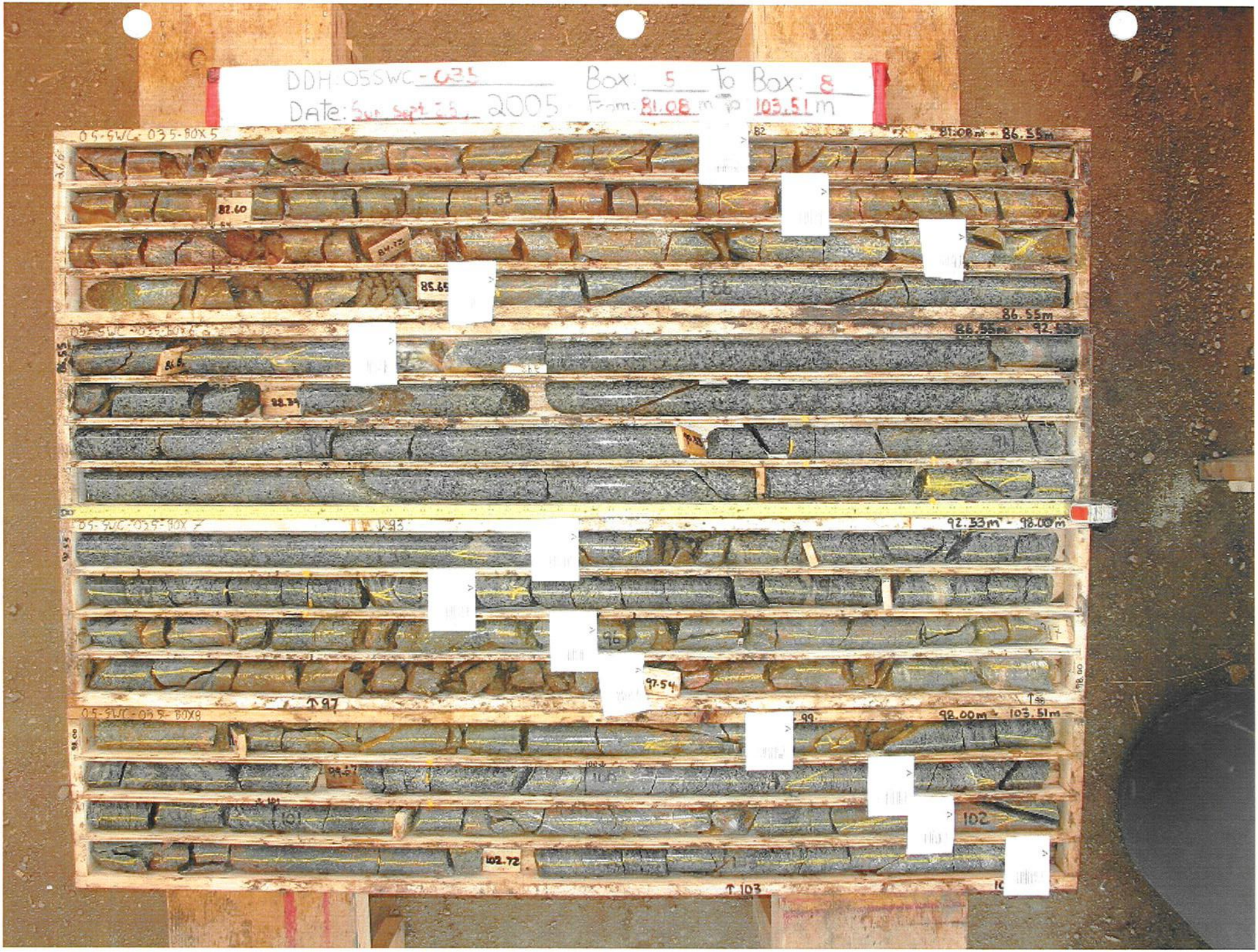
| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 70 | D | - | - | NQ | 6720 | broke along a fracture |
| 70 | A | - | 33.5 | NQ | 9700 | broke along a fracture |
| 75 | D | - | - | NQ | 2700 | along a fracture, lots of malachite on join |
| 75 | A | - | 37.5 | NQ | 4800 | poor test |
| 77 | D | - | - | NQ | 12660 | |
| 77 | A | - | 34 | NQ | 18380 | broke along a fracture, mostly qtz |
| 82 | D | L | - | NQ | 1680 | along a fracture, lots of malachite on join |
| 82 | A | - | 34 | NQ | 540 | broke along a fracture |
| 90 | D | - | - | NQ | 6560 | broke along a fracture |
| 90 | A | - | 38 | NQ | 14820 | broke along a fracture, mostly qtz |
| 94 | D | II | - | NQ | 440 | poor test |
| 94 | A | - | 38.5 | NQ | 7920 | poor test, lots of biotite |
| 99 | D | II | - | NQ | 1320 | poor test |
| 99 | A | - | 36.5 | NQ | 600 | poor test, lots of biotite |
| 108 | D | II | - | NQ | 7620 | |
| 108 | A | - | 38 | NQ | 16020 | broke along a fracture |
| 109 | D | - | - | NQ | 3180 | broke along a fracture |
| 109 | A | - | 33.5 | NQ | 10500 | broke along a fracture, mostly qtz |
| 116 | D | - | - | NQ | 14280 | |
| 116 | A | - | 36.5 | NQ | 2700 | poor test, broke along a fracture |
| 122 | D | - | - | NQ | 5980 | broke along a fracture |
| 122 | A | - | 34 | NQ | 13260 | broke along a fracture, mostly qtz |
| 127 | D | - | - | NQ | 7860 | broke along a fracture |
| 127 | A | - | 38.5 | NQ | 8240 | broke along fracture |
| 130 | D | - | - | NQ | OFL | sample wouldn't break |
| 130 | A | - | 31.5 | NQ | 14960 | broke along a fracture |
| 139 | D | - | - | NQ | 14500 | |
| 139 | A | - | 36.5 | NQ | 14660 | broke along a fracture |
| 145 | D | - | - | NQ | 12380 | pegmetite |
| 145 | A | - | 33 | NQ | 14120 | pegmetite |
| 149 | D | - | - | NQ | 3680 | broke along a weathered fracture |
| 149 | A | - | 31 | NQ | 13260 | broke along a fracture |
| 154 | D | - | - | NQ | 18540 | porphyblastic granodiorite |
| 154 | A | - | 32 | NQ | 13360 | broke along a fracture |
| 162 | D | - | - | NQ | 14580 | |
| 162 | A | - | 32 | NQ | 14680 | |

TYPE:

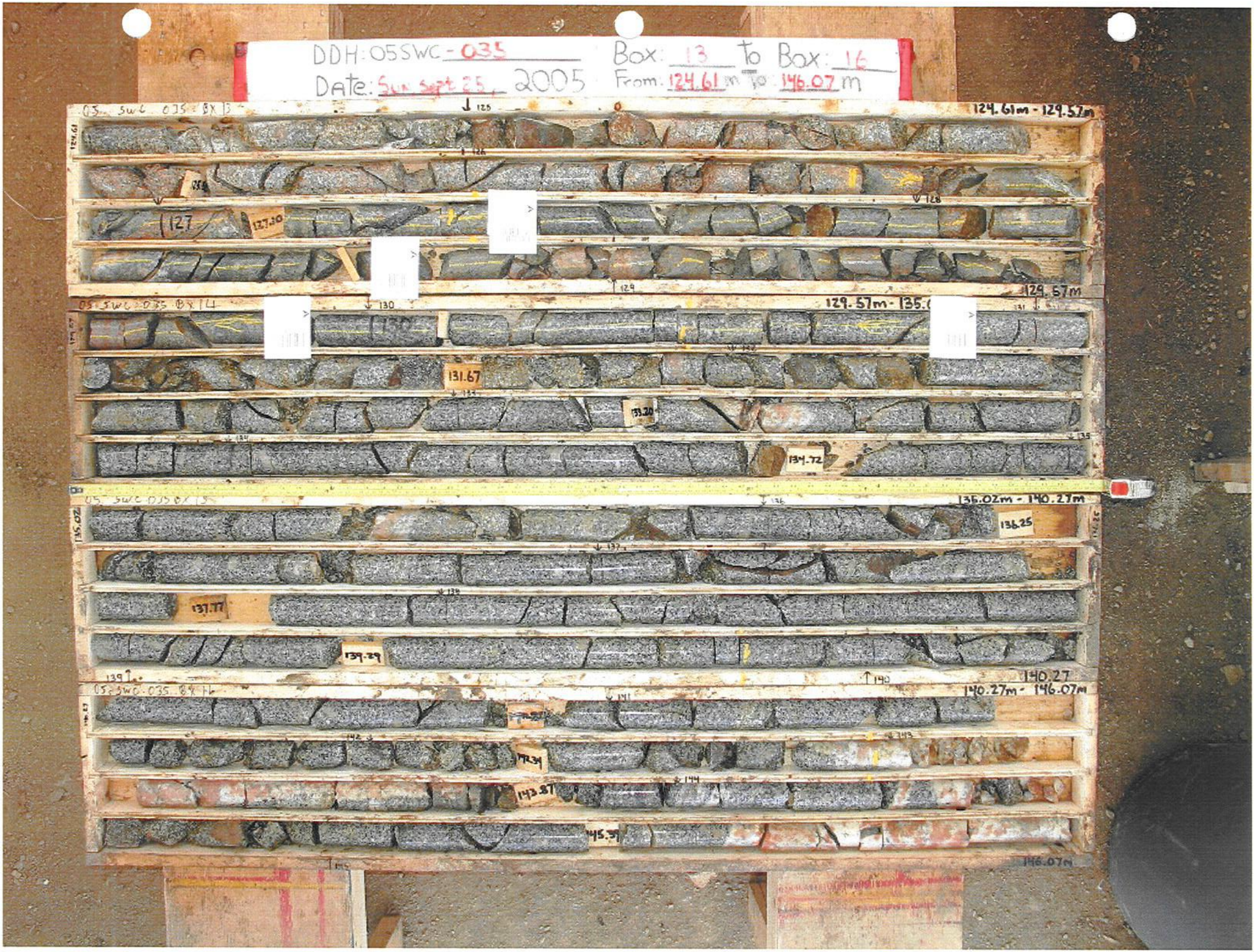
D - Diametral  L - Perpendicular

A - Axial  // - Parallel

DDH: 05SWC-035
Box: 1 to Box: 4
Date: Sun. Sept. 25, 2005
From: 9.52 m to 81.08 m
9.52m - 25.90m
25.90m
25.90m - 70.71m
70.71m - 75.58m
75.58m
75.58m - 81.08m
81.08m


DDH 05SWC-035 Box: 5 to Box: 8
Date: Sept 15 2005 From: 81.08 m To: 103.51 m
05-SWC-035-BOX 5
81.08m - 86.55m
82.60
85.85
86.55m
05-SWC-035-BOX 6
86.55m - 92.53m
88.39
05-SWC-035-BOX 7
92.53m - 98.00m
97.54
97
05-SWC-035-BOX 8
98.00m - 103.51m
102
102.72
103

DDH: 05SWC-035 Box: 9 to Box: 12
Date: Sun Sept 25, 2005 From: 103.51m To: 124.61 m
05-SWC-035-BOX 9
103.51m - 108.81m
104
104.29
105.77
107.29
108.81
108.81m
05-SWC-035-BOX 10
108.81m - 114.12m
110
110.39
111.86
113.39
05-SWC-035-BOX 11
114.12m - 119.48m
115
116
117.96
119.48
119.48m
119
05-SWC-035-BOX 12
119.48m - 124.61m
120
122.01
122.58
124.05
124.61m
124


DDH: 05SWC-035 Box: 13 to Box: 16
Date: Sun Sept 25, 2005 From: 124.61 m to: 146.07 m
124.61m - 129.57m
129.57m
129.57m - 135.
135.02m - 140.27m
140.27
140.27m - 146.07m
146.07m
127
131.67
136.25
137.77
139.29
143.87

DDH: 05SWC-035
Box: 17 to Box: 19
Date: 2005
From 146.07 m To 162.15 m
146.07m - 151.49m
151.49m - 157.09m
157.09m - 162.15m
162.15m E.O.H.

DDH 05SWC-036 Box 1 to Box 4
Date: Nov Sept 26 2005 From 10.32 m to 47.67 m
05-SWC-036-Box 1
10.32m - 28.30m
10.67
11.28
12.19
14.33
15.85
16.46
20.73
24.38
25.91
27.43
28.30m
05-SWC-036 Box 2
28.30m - 36.49m
31.09
32.00
36.49m
05-SWC-036-Box 3
36.49m - 42.46m
37.49
38.71
39.32
40.23
42.04
42.46m
05-SWC-036-Box 4
42.46m - 47.67m
43.89
45.50
46.38
47.67m

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 036

Date Hole Started: Sunday, September 25, 2005
Date Hole Finished: Monday, September 26,2005
Total Hole Depth (m): 110.34
Depth of Casing (m): 29.57
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 29.57 | | | | | | | | | | | | | | | | | | | | | | | overburden- no measurments recorded |
| 30.48 | 0.91 | 1.00 | 0.28 | 30.77 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 14 | 1.5 | 4 | 0.2 | broken core |
| 31.09 | 0.61 | 2.00 | 0.50 | 81.97 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.69 | broken core, visible malachite |
| 32.00 | 0.91 | 3.00 | 0.67 | 73.63 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.54 | broken core |
| 32.61 | 0.61 | 4.00 | 0.42 | 68.85 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 1.68 | broken core |
| 33.53 | 0.92 | 5.00 | 0.94 | 102.17 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 1.93 | broken core |
| 35.36 | 1.83 | 6.00 | 1.82 | 99.45 | 0.12 | 6.56 | 23 | 2 | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.67 | broken core, visible malachite on joint surfaces |
| 36.88 | 1.52 | 7.00 | 1.67 | 109.87 | 0.45 | 29.61 | 20 | 2 | W4 | R | 3.0 | 6.0 | 3.0 | 66.0 | 122.0 | 14.0 | 3 | 2 | 14 | 3 | 4 | 0.1 | |
| 37.49 | 0.61 | 8.00 | 0.52 | 85.25 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 2 | 1.93 | broken core |
| 38.71 | 1.22 | 9.00 | 1.40 | 114.75 | 0.11 | 9.02 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.05 | broken core, visible malachite |
| 39.01 | 0.30 | 10.00 | 0.17 | 56.67 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0 | bits of crushed up rock with specks of malachite |
| 39.32 | 0.31 | 11.00 | 0.22 | 70.97 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.31 | bits of crushed up rock with specks of malachite |
| 40.23 | 0.91 | 12.00 | 0.32 | 35.16 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.01 | bits of crushed up rock with specks of malachite |
| 40.84 | 0.61 | 13.00 | 0.61 | 100.00 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 1.5 | 2 | 14 | 1.5 | 2 | 0.12 | broken core |
| 42.06 | 1.22 | 14.00 | 1.22 | 100.00 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.49 | broken core |
| 43.28 | 1.22 | 15.00 | 1.44 | 118.03 | 0.13 | 10.66 | 15 | 1 | W4 | R | 3.0 | 6.0 | 3.0 | 52.0 | 180.0 | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.16 | |
| 43.89 | 0.61 | 16.00 | 0.85 | 139.34 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.07 | broken core |
| 44.50 | 0.61 | 17.00 | 0.63 | 103.28 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.4 | broken core, visible malachite |
| 45.42 | 0.92 | 18.00 | 0.90 | 97.83 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.12 | broken core |
| 46.33 | 0.91 | 19.00 | 0.91 | 100.00 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.05 | broken core, visible malachite and azurite |
| 47.85 | 1.52 | 20.00 | 1.55 | 101.97 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.18 | broken core |
| 48.77 | 0.92 | 21.00 | 1.10 | 119.57 | 0.26 | 28.26 | 9999 | - | W4 | R | 2.5 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.78 | broken core |
| 49.22 | 0.45 | 22.00 | 0.50 | 111.11 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 1.06 | broken core |
| 49.38 | 0.16 | 23.00 | 0.27 | 168.75 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.87 | broken core |
| 50.90 | 1.52 | 24.00 | 1.50 | 98.68 | 0.13 | 8.55 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.75 | broken core, visible malachite and azurite |
| 51.82 | 0.92 | 25.00 | 0.87 | 94.57 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.42 | broken core |
| 52.12 | 0.30 | 26.00 | 0.27 | 90.00 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.91 | broken core |
| 53.19 | 1.07 | 27.00 | 1.05 | 98.13 | 0.12 | 11.21 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.45 | broken core |
| 53.64 | 0.45 | 28.00 | 0.53 | 117.78 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 2.81 | broken core |
| 53.95 | 0.31 | 29.00 | 0.36 | 116.13 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.64 | broken core |
| 54.86 | 0.91 | 30.00 | 0.75 | 82.42 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 15 | broken core |
| 55.47 | 0.61 | 31.00 | 0.60 | 98.36 | 0.11 | 18.03 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 1.61 | broken core |
| 56.69 | 1.22 | 32.00 | 1.33 | 109.02 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 4 | 16 | 3 | 4 | 2.23 | broken core |
| 57.30 | 0.61 | 33.00 | 0.45 | 73.77 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 4 | 16 | 3 | 4 | 1.22 | broken core |
| 57.61 | 0.31 | 34.00 | 0.31 | 100.00 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 16 | 1.5 | 3 | 1.97 | broken core |
| 57.91 | 0.30 | 35.00 | 0.32 | 106.67 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 4 | 16 | 3 | 4 | 3.2 | broken core |
| 59.44 | 1.53 | 36.00 | 1.46 | 95.42 | 0.22 | 14.38 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 4 | 16 | 3 | 4 | 1.04 | broken core, specks of malachite |
| 60.35 | 0.91 | 37.00 | 0.85 | 93.41 | 0.16 | 17.58 | 9999 | - | W3 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 4 | 16 | 3 | 4 | 5.17 | broken core |
| 61.57 | 1.22 | 38.00 | 1.26 | 103.28 | 0.75 | 61.48 | 8 | 1 | W3 | R | 3.0 | 6.0 | 2.0 | 25.0 | 144.0 | 16.0 | 3 | 4 | 16 | 1.5 | 1 | 0.43 | |
| 62.48 | 0.91 | 39.00 | 0.91 | 100.00 | 0.31 | 34.07 | 7 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 37.0 | 118.0 | 16.0 | 3 | 4 | 16 | 1.5 | 4 | 0.2 | |
| 63.40 | 0.92 | 40.00 | 0.92 | 100.00 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 4 | 16 | 3 | 4 | 0 | broken core |

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Monday, Sept 26, 2005

Recorded by: Matthew R. Kochtubajda

Project Number: _____ 05SWC-036

| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 35 | D | II | - | NQ | 1020 | ulphides have been oxidized, lots of bioti |
| 35 | A | - | 38 | NQ | 2220 | ulphides have been oxidized, lots of bioti |
| 46 | D | II | - | NQ | 1080 | heavely weathered with lots of malachite |
| 46 | A | - | 33 | NQ | 8140 | broke along a fracture |
| 48 | D | L | - | NQ | 480 | poor test |
| 48 | A | - | 31 | NQ | 1620 | broke along a fracture |
| 55 | D | - | - | NQ | 940 | poor test |
| 55 | A | - | 32.5 | NQ | 1620 | |
| 60 | D | - | - | NQ | 3960 | |
| 60 | A | - | 33 | NQ | 2660 | broke along a fracture, crs grained |
| 66 | D | - | - | NQ | 900 | oor test, broke along a weathered fractur |
| 66 | A | - | 31.5 | NQ | 1460 | broke along a weathered fracture |
| 74 | D | - | - | NQ | 3260 | |
| 74 | A | - | 33 | NQ | 2700 | broke along a fracture |
| 76 | D | - | - | NQ | 7400 | v crs grained, split along a fracture |
| 76 | A | - | 30.5 | NQ | 4980 | broke along a fracture |
| 83 | D | - | - | NQ | 15340 | lots of qtz |
| 83 | A | - | 33.5 | NQ | 9520 | broke along a fracture |
| 88 | D | - | - | NQ | 12020 | |
| 88 | A | - | 32 | NQ | 7940 | mostly qtz |
| 96 | D | - | - | NQ | 14240 | |
| 96 | A | - | 31.5 | NQ | 3920 | |
| 101 | D | - | - | NQ | 12680 | mostly qtz |
| 101 | A | - | 33 | NQ | 9540 | broke along a fracture |
| 106 | D | - | - | NQ | 9860 | |
| 106 | A | - | 33.5 | NQ | 4080 | poor test |
| 109 | D | - | - | NQ | 15220 | |
| 109 | A | - | 33 | NQ | 2640 | poor test, broke along a weathered fracture |

TYPE:

D - Diametral  L - Perpendicular

A - Axial  // - Parallel

DDH: 05SWC - 036
Box: 5 to Box: 8
Date: Mon. Sept 26 2005
From: 47.67 m To: 69.65 m
47.67 m - 53.05m
53.05m - 58.52m
58.52m - 64.23m
64.23m
64.23m - 69.65m
69.65m

DDH: 05SWC-036 Box: 9 to Box: 12
Date: Mon. Sept 26 2005 From: 69.65 m To: 91.75 m
69.65m - 75.25m
75.25m - 80.59m
80.59m - 86.29m
86.29m - 91.75m
05-SWC-036-BOX9
05-SWC-036-BOX10
05-SWC-036-BOX11
05-SWC-036-BOX12
69.65
75.25
80.59
86.29
91.75m

DDH: 05SWC-036
Box: 13 to Box: 16
Date: Mon Sept 26 2005
From: 91.75 m To: 110.34 m
05-SWC-036-Box 13
91.75m - 97.26m
91.75
91.34
192
193
194
94.33
195
95.86
197
97.08
198
97.26m
05-SWC-036 box 14
97.26m - 102.77m
97.26
100
98.15
102
102.77m
05-SWC-036-BX 15
102.77m - 108.42m
102.77
103
103.63
104
105
106
107.90
108
108.42m
05-SWC-036 BX 16
108.42m - 110.34m
108.42
109
109.27
110
110.34
110.34m E.O.H

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 037

Date Hole Started:
Date Hole Finished:
Total Hole Depth (m): 155.75
Depth of Casing (m): 66.14
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 66.14 | | | | | | | | | | | | | | | | | | | | | | | overburden- no measurments recorded |
| 67.67 | 1.53 | 1.00 | 0.35 | 22.88 | 0.00 | 0.00 | 9999 | - | W6 | S | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.29 | broken core- bits of crushed up rock and clay |
| 69.19 | 1.52 | 2.00 | 1.75 | 115.13 | 0.12 | 7.89 | 9999 | - | W4 | R | 2.0 | 9999.0 | - | - | - | 10.0 | 3 | 4 | 10 | 3 | 4 | 0.12 | broken core |
| 70.71 | 1.52 | 3.00 | 1.50 | 98.68 | 0.26 | 17.11 | 9999 | - | W4 | R | 2.5 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 12 | 3 | 4 | 0.75 | broken core |
| 72.24 | 1.53 | 4.00 | 1.61 | 105.23 | 0.00 | 0.00 | 9999 | - | W4 | R | 2.5 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 0.12 | broken core |
| 73.76 | 1.52 | 5.00 | 1.63 | 107.24 | 0.00 | 0.00 | 9999 | - | W4 | R | 2.5 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 12 | 3 | 4 | 0.03 | broken core |
| 75.29 | 1.53 | 6.00 | 1.69 | 110.46 | 0.27 | 17.65 | 9999 | - | W4 | R | 2.5 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 0.1 | broken core |
| 76.81 | 1.52 | 7.00 | 1.49 | 98.03 | 0.28 | 18.42 | 9999 | - | W4 | R | 2.5 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 0.64 | broken core; starting to see some malachite |
| 78.33 | 1.52 | 8.00 | 1.59 | 104.61 | 0.98 | 64.47 | 11 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 63.0 | 139.0 | 14.0 | 1.5 | 4 | 14 | 1.5 | 4 | 0.75 | |
| 79.86 | 1.53 | 9.00 | 1.45 | 94.77 | 0.93 | 60.78 | 12 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 42.0 | 118.0 | 16.0 | 1.5 | 4 | 16 | 1.5 | 4 | 0.53 | |
| 81.38 | 1.52 | 10.00 | 1.52 | 100.00 | 1.35 | 88.82 | 8 | 1 | W3 | R | 3.0 | 2.0 | 4.0 | 33.0 | - | 18.0 | 1.5 | 1 | 18 | 1.5 | 1 | 0 | |
| 82.91 | 1.53 | 11.00 | 1.42 | 92.81 | 1.20 | 78.43 | 6 | 1 | W3 | R | 3.0 | 3.0 | 3.0 | 61.0 | - | 18.0 | 1.5 | 1 | 18 | 1.5 | 1 | 0.38 | |
| 84.43 | 1.52 | 12.00 | 1.56 | 102.63 | 1.19 | 78.29 | 10 | 1 | W3 | R | 3.0 | 6.0 | 5.0 | 45.0 | 124.0 | 0.0 | 1 | 6 | 18 | 3 | 1 | 0.86 | |
| 85.95 | 1.52 | 13.00 | 1.50 | 98.68 | 0.52 | 34.21 | 14 | 1 | W3 | R | 3.0 | 6.0 | 6.0 | 36.0 | 121.0 | 16.0 | 3 | 4 | 18 | 3 | 4 | 0.53 | |
| 87.48 | 1.53 | 14.00 | 1.52 | 99.35 | 0.74 | 48.37 | 11 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 41.0 | 135.0 | 18.0 | 3 | 1 | 18 | 1.5 | 1 | 0.31 | |
| 89.00 | 1.52 | 15.00 | 1.58 | 103.95 | 0.83 | 54.61 | 10 | 1 | W3 | R | 3.0 | 12.0 | 3.0 | 40.0 | 130.0 | 18.0 | 3 | 1 | 18 | 1.5 | 1 | 0.29 | specks of malachite on joint surfaces |
| 90.53 | 1.53 | 16.00 | 1.59 | 103.92 | 0.71 | 46.41 | 10 | 1 | W3 | R | 3.0 | 6.0 | 5.0 | 180.0 | 43.0 | 18.0 | 3 | 2 | 18 | 3 | 2 | 3.11 | malachite on joint surfaces |
| 92.05 | 1.52 | 17.00 | 1.60 | 105.26 | 0.72 | 47.37 | 11 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 53.0 | 1.2 | 18.0 | 3 | 2 | 18 | 3 | 2 | 76.7 | ble malachite, chalcopyrite and bands of magnetite |
| 92.96 | 0.91 | 18.00 | 1.02 | 112.09 | 0.67 | 73.63 | 6 | 1 | W3 | R | 3.0 | 3.0 | 2.0 | 38.0 | - | 18.0 | 3 | 2 | 18 | 1.5 | 2 | 20.9 | |
| 94.49 | 1.53 | 19.00 | 1.65 | 107.84 | 1.14 | 74.51 | 12 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 31.0 | 109.0 | 18.0 | 3 | 2 | 18 | 1.5 | 2 | 105 | visible bands of magnetite |
| 96.01 | 1.52 | 20.00 | 1.44 | 94.74 | 0.73 | 48.03 | 12 | 1 | W3 | R | 3.0 | 3.0 | 8.0 | 57.0 | - | 18.0 | 3 | 2 | 18 | 3 | 2 | 9.6 | |
| 98.15 | 2.14 | 21.00 | 2.00 | 93.46 | 0.63 | 29.44 | 20 | 2 | W3 | R | 3.0 | 6.0 | 3.0 | 55.0 | 136.0 | 18.0 | 1.5 | 4 | 18 | 1.5 | 3 | 1.66 | |
| 99.67 | 1.52 | 22.00 | 1.61 | 105.92 | 0.44 | 28.95 | 9999 | - | W3 | R | 3.0 | 9999.0 | - | - | - | 18.0 | 1.5 | 4 | 18 | 3 | 2 | 19.9 | broken core |
| 101.19 | 1.52 | 23.00 | 1.60 | 105.26 | 0.48 | 31.58 | 9999 | - | W3 | R | 3.0 | 9999.0 | - | - | - | 18.0 | 1.5 | 4 | 18 | 3 | 2 | 5.43 | roken core, specks of chalcopyrite on joint walls |
| 102.72 | 1.53 | 24.00 | 1.59 | 103.92 | 0.55 | 35.95 | 17 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 62.0 | 140.0 | 18.0 | 1.5 | 4 | 18 | 1.5 | 2 | 45.9 | |
| 104.24 | 1.52 | 25.00 | 1.52 | 100.00 | 0.00 | 0.00 | 9999 | - | W3 | R | 3.0 | 9999.0 | - | - | - | 18.0 | 3 | 4 | 18 | 3 | 4 | 33.8 | broken core |
| 105.77 | 1.53 | 26.00 | 1.80 | 117.65 | 0.41 | 26.80 | 17 | 2 | W3 | R | 3.0 | 3.0 | 8.0 | 53.0 | - | 18.0 | 3 | 4 | 18 | 3 | 4 | 0.45 | |
| 107.29 | 1.52 | 27.00 | 1.44 | 94.74 | 0.94 | 61.84 | 12 | 1 | W3 | R | 3.0 | 3.0 | 8.0 | 33.0 | - | 18.0 | 3 | 4 | 18 | 1.5 | 4 | 1.35 | |
| 108.81 | 1.52 | 28.00 | 1.64 | 107.89 | 1.23 | 80.92 | 6 | 1 | W3 | R | 3.0 | 6.0 | 2.0 | 50.0 | 127.0 | 18.0 | 3 | 2 | 18 | 3 | 2 | 0.73 | |
| 110.34 | 1.53 | 29.00 | 1.61 | 105.23 | 0.43 | 28.10 | 14 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 56.0 | 180.0 | 18.0 | 1.5 | 2 | 18 | 1.5 | 4 | 0.23 | |
| 111.86 | 1.52 | 30.00 | 1.62 | 106.58 | 0.95 | 62.50 | 14 | 1 | W3 | R | 3.0 | 6.0 | 4.0 | 58.0 | 180.0 | 18.0 | 1.5 | 2 | 18 | 3 | 4 | 0.71 | |
| 113.39 | 1.53 | 31.00 | 1.36 | 88.89 | 0.96 | 62.75 | 9 | 1 | W3 | R | 3.0 | 4.0 | 3.0 | 56.0 | 138.0 | 18.0 | 1.5 | 4 | 18 | 1.5 | 4 | 0.65 | |
| 114.91 | 1.52 | 32.00 | 1.62 | 106.58 | 0.71 | 46.71 | 9 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 180.0 | 36.0 | 18.0 | 3 | 4 | 18 | 1.5 | 2 | 0.18 | |
| 116.43 | 1.52 | 33.00 | 1.42 | 93.42 | 0.89 | 58.55 | 14 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 52.0 | 111.0 | 18.0 | 3 | 4 | 18 | 1.5 | 2 | 0.21 | |
| 117.96 | 1.53 | 34.00 | 1.60 | 104.58 | 0.65 | 42.48 | 14 | 1 | W3 | R | 3.0 | 3.0 | 3.0 | 55.0 | - | 18.0 | 1.5 | 4 | 18 | 3 | 4 | 0.25 | |
| 119.79 | 1.83 | 35.00 | 1.97 | 107.65 | 0.97 | 53.01 | 14 | 1 | W3 | R | 3.0 | 3.0 | 4.0 | 34.0 | - | 18.0 | 3 | 4 | 18 | 1.5 | 2 | 0.43 | visible epidote on joint surfaces |
| 122.83 | 3.04 | 36.00 | 1.97 | 64.80 | 2.00 | 65.79 | 17 | 2 | W3 | R | 3.0 | 6.0 | 3.0 | 41.0 | 114.0 | 18.0 | 3 | 4 | 18 | 1.5 | 2 | 0.14 | |
| 125.27 | 2.44 | 37.00 | 2.63 | 107.79 | 1.66 | 68.03 | 15 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 70.0 | 129.0 | 18.0 | 3 | 4 | 18 | 3 | 4 | 1.68 | |
| 127.41 | 2.14 | 38.00 | 1.97 | 92.06 | 1.70 | 79.44 | 24 | 3 | W3 | R | 3.0 | 6.0 | 3.0 | 70.0 | 129.0 | 18.0 | 3 | 4 | 18 | 3 | 4 | 0.31 | |
| 130.15 | 2.74 | 39.00 | 2.80 | 102.19 | 1.08 | 39.42 | 24 | 2 | W3 | R | 3.0 | 6.0 | 3.0 | 70.0 | 122.0 | 18.0 | 1.5 | 2 | 18 | 1.5 | 4 | 2.61 | |
| 133.20 | 3.05 | 40.00 | 3.05 | 100.00 | 2.01 | 65.90 | 25 | 2 | W3 | R | 3.0 | 6.0 | 10.0 | 64.0 | 140.0 | 18.0 | 3 | 4 | 18 | 3 | 4 | 2.15 | |
| 136.25 | 3.05 | 41.00 | 3.08 | 100.98 | 1.22 | 40.00 | 29 | 2 | W3 | R | 3.0 | 6.0 | 3.0 | 64.0 | 146.0 | 18.0 | 3 | 4 | 18 | 1.5 | 4 | 5.7 | |

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Friday, Sept 30, 2005

Recorded by: Matthew R. Kochtubajda

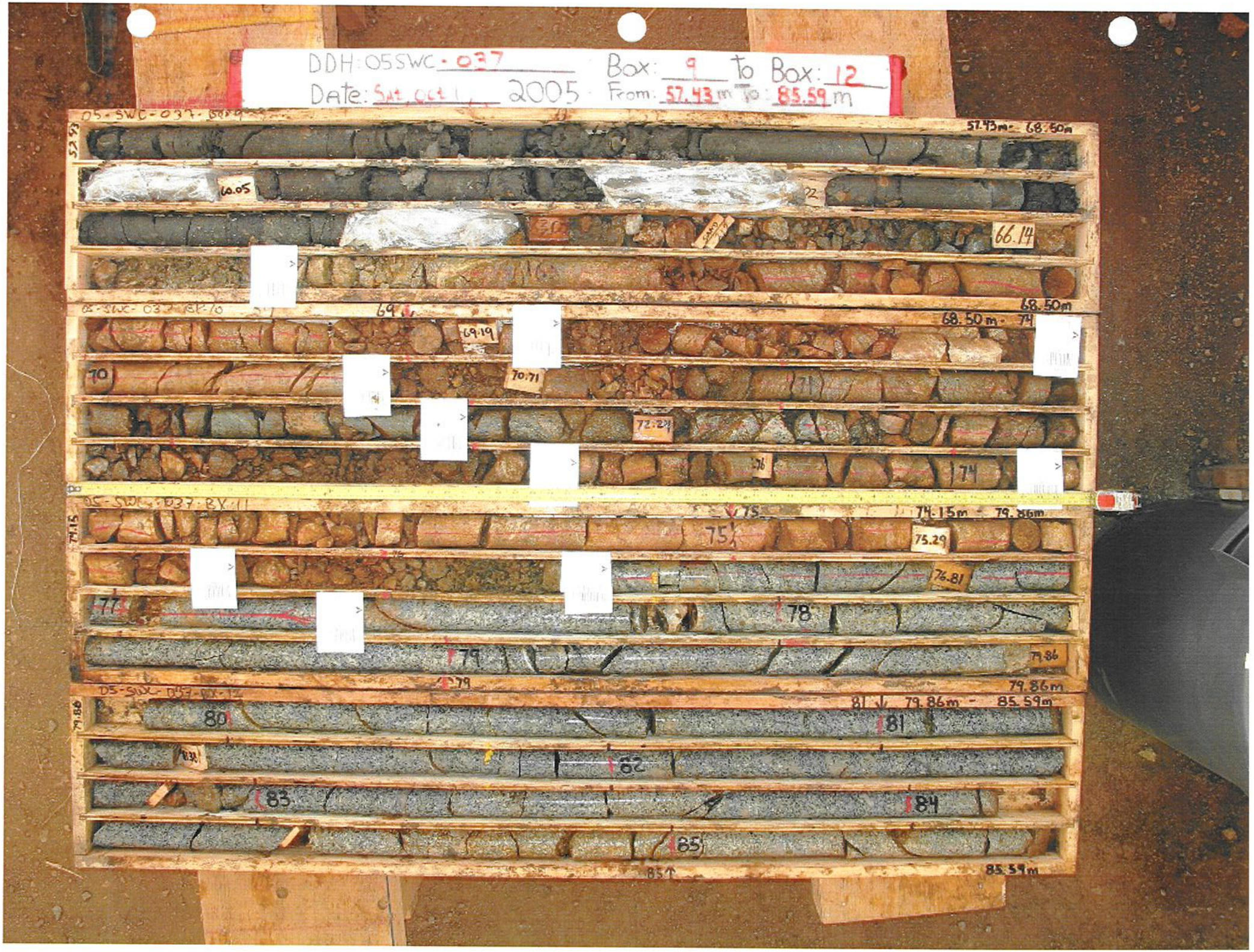
Project Number: _____ 05SWC-037

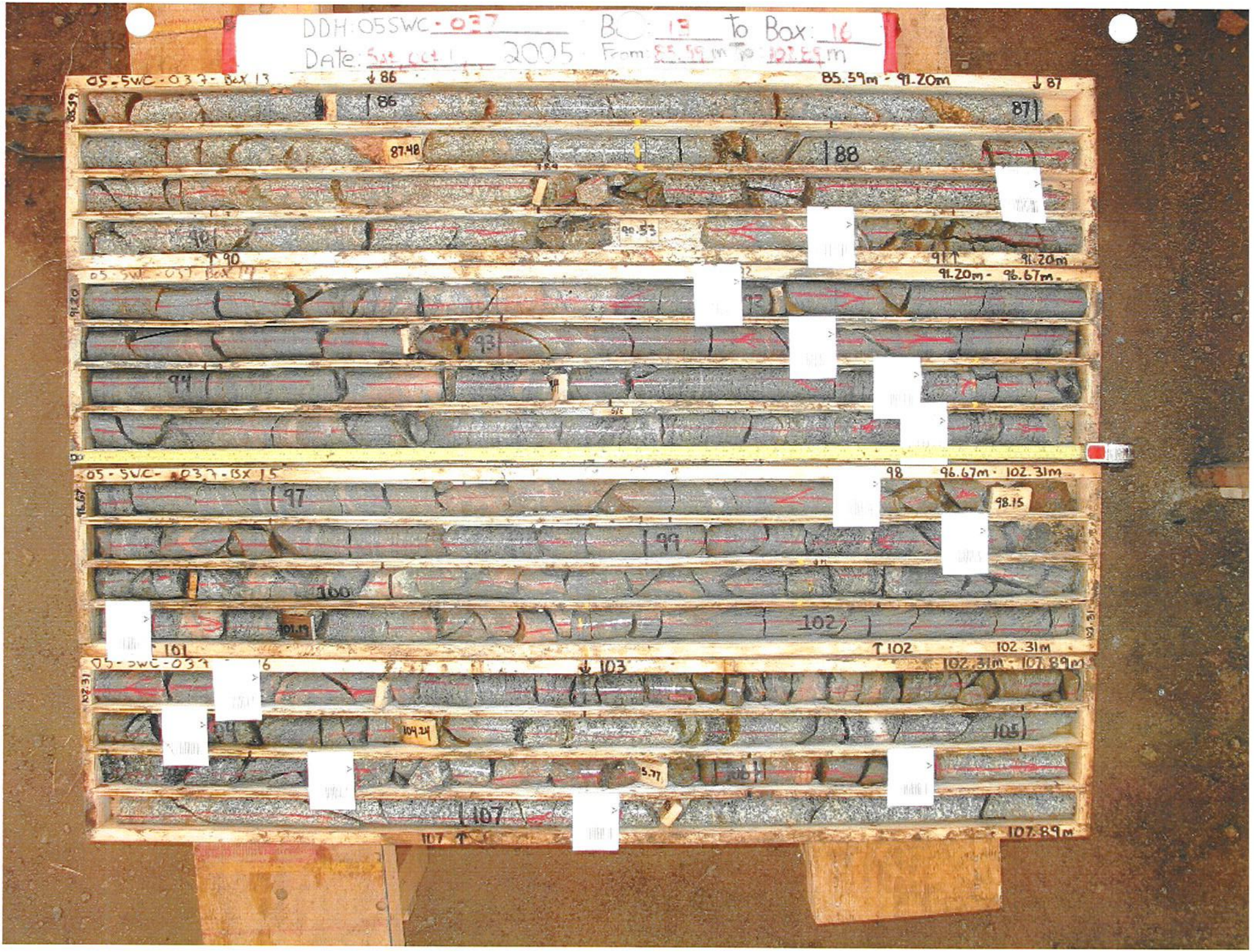
| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| | | | | | | |
| | | | | | | |
| 76 | D | - | - | NQ | 8540 | along a weathered fracture; crs-grained |
| 76 | A | - | 30.5 | NQ | 4160 | broke along a weathered fracture |
| 81 | D | - | - | NQ | 13320 | |
| 81 | A | - | 31 | NQ | 4080 | broke along a weathered fracture |
| 87 | D | - | - | NQ | OFL | |
| 87 | A | - | 31 | NQ | 13180 | broke along a fracture |
| 95 | D | L | - | NQ | 4580 | |
| 95 | A | - | 33 | NQ | 8060 | |
| 101 | D | - | - | NQ | 4780 | ke along a mineralized fracture (chalcopy |
| 101 | A | - | 31 | NQ | 2640 | broke along a weathered fracture |
| 107 | D | - | - | NQ | 13960 | mostly qtz, crs-grained |
| 107 | A | - | 30 | NQ | 8260 | broke along a fracture |
| 112 | D | - | - | NQ | 10060 | |
| 112 | A | - | 32 | NQ | 7160 | broke along a fracture |
| 117 | D | - | - | NQ | 2920 | oor test broke along a weathered fractur |
| 117 | A | - | 31.5 | NQ | 1040 | oor test broke along a weathered fractur |
| 120 | D | - | - | NQ | 8260 | broke along a weathered fracture |
| 120 | A | - | 32.5 | NQ | 5960 | broke along a weathered fracture |
| 128 | D | - | - | NQ | 8800 | |
| 128 | A | - | 32.5 | NQ | 12160 | broke along a fracture |
| 132 | D | II | - | NQ | 6760 | lots of biotite |
| 132 | A | - | 30 | NQ | 4020 | broke along a weathered fracture |
| 137 | D | L | - | NQ | 8980 | |
| 137 | A | - | 30 | NQ | 3980 | broke along a weathered fracture |
| 144 | D | L | - | NQ | 9100 | lots of biotite |
| 144 | A | - | 32.5 | NQ | 2720 | oor test broke along a weathered fractur |
| 150 | D | - | - | NQ | 6980 | broke along a weathered fracture |
| 150 | A | - | 29 | NQ | 3680 | broke along a weathered fracture |
| 154 | D | - | - | NQ | 12240 | |
| 154 | A | - | 31 | NQ | 9280 | |

TYPE:

D - Diametral  L - Perpendicular

A - Axial  // - Parallel


DDH: 05SWC-037 Box: 9 to Box: 12
Date: Sat Oct 1 2005 From: 57.43 m To: 85.59 m
05-SWC-037-BX-9
57.43m - 68.50m
60.05
66.14
68.50m
68.50m - 74
69.19
70.71
72.24
74
74.15m - 79.86m
75.29
76.81
79.86
79.86m
79.86m - 85.59m
85.59m


DDH: 05SWC-037 Box: 13 to Box: 16
Date: Oct 2005 From: 85.59m To: 107.89m
05-SWC-037-Box 13
85.59m - 91.20m
91.20m - 96.67m
96.67m - 102.31m
102.31m - 107.89m
87.48
90.53
98.15
104.24
105.77

DDH: 05SWC-037 Box: 17 to Box: 20
Date: Sat, Oct 1, 2005 From: 107.89m To: 130.35m
05-SWC-037 Box 17
107.89
108
108.81
109
107.89m - 113.39m
110
110.34
111
111.86
112
113.39
113
113.39m
114
113.39m - 118.06m
115
116
117
118
118.06m
119
119.19
120
118.06m - 124.44m
121
122
122.68
123
124
124.44m
125
124.44m - 130.35m
125.29
126
127
128
129
130
130.35m

DDH: 05SWC-037 Box: 21 To Box: 25
Date: Sat. Oct 1, 2005 From: 130.35m To: 155.75 m
05-SWC-037-BX-21
130.35
135.98m
05-SWC-037-BX-22
05-SWC-037-BX-23
05-SWC-037-BX-24
05-SWC-037-BX-25
146.88
152.66
155.75

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 038

Date Hole Started: Monday, September 26, 2005
Date Hole Finished: Thursday, September 29, 2005
Total Hole Depth (m): 161.85
Depth of Casing (m): 17.07
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 17.07 | | | | | | | | | | | | | | | | | | | | | | | overburden- no measurments recorded |
| 20.73 | 3.66 | 1.00 | 1.23 | 33.61 | 0.13 | 3.55 | 9999 | - | W6 | S | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.18 | crushed up rock and sand |
| 21.64 | 0.91 | 2.00 | 0.31 | 34.07 | 0.14 | 15.38 | 9999 | - | W5 | R | 1.0 | 9999.0 | - | - | - | 10.0 | 3 | 4 | 10 | 3 | 4 | 1.9 | broken core |
| 23.16 | 1.52 | 3.00 | 1.65 | 108.55 | 0.18 | 11.84 | 9999 | - | W5 | R | 1.0 | 9999.0 | - | - | - | 10.0 | 3 | 4 | 10 | 3 | 4 | 0.45 | broken core |
| 24.69 | 1.53 | 4.00 | 1.61 | 105.23 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 10.0 | 3 | 4 | 10 | 3 | 4 | 0.03 | broken core |
| 26.21 | 1.52 | 5.00 | 1.61 | 105.92 | 0.11 | 7.24 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 10.0 | 3 | 4 | 10 | 3 | 4 | 0.91 | broken core |
| 27.74 | 1.53 | 6.00 | 1.53 | 100.00 | 0.50 | 32.68 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 10.0 | 3 | 4 | 10 | 3 | 4 | 0.69 | broken core |
| 29.26 | 1.52 | 7.00 | 1.23 | 80.92 | 0.26 | 17.11 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 10.0 | 3 | 4 | 10 | 3 | 4 | 0.47 | broken core |
| 30.78 | 1.52 | 8.00 | 1.42 | 93.42 | 0.83 | 54.61 | 9 | 1 | W3 | R | 3.0 | 6.0 | 6.0 | 60.0 | 140.0 | 12.0 | 3 | 4 | 12 | 1.5 | 4 | 0.36 | |
| 32.31 | 1.53 | 9.00 | 1.16 | 75.82 | 0.28 | 18.30 | 8 | 1 | W3 | R | 3.0 | 3.0 | 3.0 | 42.0 | - | 12.0 | 3 | 4 | 12 | 1.5 | 4 | 0.38 | |
| 33.83 | 1.52 | 10.00 | 1.25 | 82.24 | 0.43 | 28.29 | 11 | 1 | W3 | R | 3.0 | 3.0 | 4.0 | 69.0 | - | 12.0 | 3 | 4 | 12 | 1.5 | 4 | 2.21 | |
| 35.36 | 1.53 | 11.00 | 1.58 | 103.27 | 0.86 | 56.21 | 14 | 1 | W3 | R | 3.0 | 6.0 | 5.0 | 59.0 | 103.0 | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.6 | |
| 36.88 | 1.52 | 12.00 | 1.69 | 111.18 | 0.88 | 57.89 | 15 | 1 | W3 | R | 3.0 | 6.0 | 3.0 | 72.0 | 130.0 | 14.0 | 1.5 | 4 | 14 | 1.5 | 4 | 0.21 | |
| 38.40 | 1.52 | 13.00 | 1.61 | 105.92 | 1.07 | 70.39 | 9 | 1 | W3 | R | 3.0 | 3.0 | 4.0 | 66.0 | - | 14.0 | 3 | 4 | 14 | 1.5 | 4 | 0.14 | |
| 39.93 | 1.53 | 14.00 | 1.50 | 98.04 | 1.09 | 71.24 | 8 | 1 | W3 | R | 3.0 | 3.0 | 6.0 | 54.0 | - | 14.0 | 1.5 | 4 | 14 | 3 | 4 | 0.38 | |
| 41.45 | 1.52 | 15.00 | 1.36 | 89.47 | 0.98 | 64.47 | 6 | 1 | W3 | R | 3.0 | 3.0 | 3.0 | 49.0 | - | 16.0 | 1.5 | 4 | 16 | 1.5 | 4 | 0.73 | |
| 42.98 | 1.53 | 16.00 | 1.51 | 98.69 | 0.70 | 45.75 | 10 | 1 | W3 | R | 3.0 | 6.0 | 2.0 | 59.0 | 158.0 | 16.0 | 1.5 | 4 | 16 | 0.5 | 4 | 0.87 | |
| 44.50 | 1.52 | 17.00 | 1.60 | 105.26 | 0.99 | 65.13 | 8 | 1 | W3 | R | 3.0 | 6.0 | 10.0 | 45.0 | 156.0 | 16.0 | 3 | 4 | 16 | 3 | 4 | 0.34 | |
| 46.02 | 1.52 | 18.00 | 1.84 | 121.05 | 0.76 | 50.00 | 9 | 1 | W3 | R | 3.0 | 6.0 | 8.0 | 65.0 | 144.0 | 16.0 | 1.5 | 2 | 16 | 1.5 | 4 | 0.4 | |
| 47.55 | 1.53 | 19.00 | 1.53 | 100.00 | 0.11 | 7.19 | 9999 | - | W3 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 4 | 16 | 3 | 4 | 0.07 | broken core |
| 49.07 | 1.52 | 20.00 | 1.30 | 85.53 | 0.79 | 51.97 | 8 | 1 | W3 | R | 3.0 | 6.0 | 2.0 | 46.0 | 108.0 | 16.0 | 1.5 | 4 | 16 | 1.5 | 4 | 0.1 | |
| 50.60 | 1.53 | 21.00 | 1.42 | 92.81 | 0.79 | 51.63 | 5 | 0 | W3 | R | 3.0 | 6.0 | 5.0 | 47.0 | 180.0 | 16.0 | 3 | 4 | 16 | 3 | 4 | 0.51 | |
| 52.12 | 1.52 | 22.00 | 1.22 | 80.26 | 0.12 | 7.89 | 9999 | - | W3 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 2 | 16 | 3 | 2 | 1.92 | visible malachite on joint surfaces |
| 53.64 | 1.52 | 23.00 | 1.32 | 86.84 | 0.36 | 23.68 | 9 | 1 | W3 | R | 3.0 | 3.0 | 6.0 | 38.0 | - | 16.0 | 3 | 2 | 16 | 3 | 2 | 1.97 | visible malachite on joint surfaces |
| 55.17 | 1.53 | 24.00 | 1.48 | 96.73 | 0.50 | 32.68 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 4 | 16 | 3 | 4 | 1.24 | broken core |
| 56.69 | 1.52 | 25.00 | 1.51 | 99.34 | 0.28 | 18.42 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 4 | 16 | 3 | 4 | 2.14 | broken core |
| 58.22 | 1.53 | 26.00 | 1.27 | 83.01 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 2 | 16 | 3 | 2 | 3.18 | broken core, specks of malachite |
| 59.74 | 1.52 | 27.00 | 1.55 | 101.97 | 0.34 | 22.37 | 15 | 1 | W4 | R | 3.0 | 6.0 | 8.0 | 42.0 | 180.0 | 16.0 | 3 | 4 | 16 | 1.5 | 4 | 2.92 | |
| 61.26 | 1.52 | 28.00 | 1.38 | 90.79 | 0.24 | 15.79 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 4 | 16 | 3 | 4 | 2.89 | broken core |
| 62.79 | 1.53 | 29.00 | 1.08 | 70.59 | 0.30 | 19.61 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 4 | 16 | 3 | 4 | 1.37 | broken core |
| 64.31 | 1.52 | 30.00 | 1.20 | 78.95 | 0.43 | 28.29 | 7 | 1 | W4 | R | 3.0 | 3.0 | 18.0 | 61.0 | 155.0 | 10.0 | 3 | 4 | 14 | 1.5 | 4 | 0.64 | |
| 65.84 | 1.53 | 31.00 | 1.19 | 77.78 | 0.71 | 46.41 | 7 | 1 | W3 | R | 3.0 | 6.0 | 2.0 | 55.0 | 117.0 | 16.0 | 3 | 4 | 16 | 1.5 | 4 | 0.53 | |
| 67.36 | 1.52 | 32.00 | 1.51 | 99.34 | 1.22 | 80.26 | 8 | 1 | W3 | R | 3.0 | 6.0 | 5.0 | 45.0 | 125.0 | 16.0 | 3 | 4 | 16 | 3 | 4 | 0.21 | |
| 68.88 | 1.52 | 33.00 | 1.57 | 103.29 | 1.27 | 83.55 | 8 | 1 | W3 | R | 3.0 | 6.0 | 14.0 | 70.0 | 124.0 | 18.0 | 3 | 4 | 18 | 3 | 4 | 0.38 | |
| 70.41 | 1.53 | 34.00 | 1.55 | 101.31 | 1.13 | 73.86 | 8 | 1 | W3 | R | 3.0 | 4.0 | 2.0 | 44.0 | 100.0 | 18.0 | 3 | 4 | 18 | 1.5 | 4 | 0.43 | |
| 71.93 | 1.52 | 35.00 | 1.56 | 102.63 | 1.34 | 88.16 | 4 | 1 | W2 | R | 3.0 | 2.0 | 3.0 | 21.0 | - | 20.0 | 1.5 | 2 | 20 | 1.5 | 2 | 0.8 | visible epidote ? |
| 73.46 | 1.53 | 36.00 | 1.53 | 100.00 | 1.13 | 73.86 | 7 | 1 | W2 | R | 3.0 | 6.0 | 12.0 | 44.0 | 132.0 | 20.0 | 3 | 2 | 20 | 3 | 2 | 0.2 | specksof malachite on joint surfaces |
| 74.98 | 1.52 | 37.00 | 1.42 | 93.42 | 0.80 | 52.63 | 9 | 1 | W2 | R | 3.0 | 3.0 | 5.0 | 54.0 | - | 18.0 | 3 | 2 | 20 | 3 | 1 | 0.16 | |
| 76.50 | 1.52 | 38.00 | 1.62 | 106.58 | 0.93 | 61.18 | 9 | 1 | W2 | R | 3.0 | 6.0 | 2.0 | 51.0 | 117.0 | 20.0 | 3 | 2 | 20 | 1.5 | 2 | 3.36 | epidote on joint walls |
| 78.03 | 1.53 | 39.00 | 1.58 | 103.27 | 1.02 | 66.67 | 10 | 1 | W2 | R | 3.0 | 3.0 | 2.0 | 70.0 | - | 20.0 | 3 | 1 | 20 | 1.5 | 2 | 0.6 | epidote on joint walls |
| 79.25 | 1.22 | 40.00 | 1.29 | 105.74 | 0.68 | 55.74 | 10 | 1 | W2 | R | 3.0 | 6.0 | 2.0 | 28.0 | 132.0 | 20.0 | 3 | 2 | 20 | 1.5 | 4 | 0.25 | |

## POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Wednesday, Sept 28, 2005

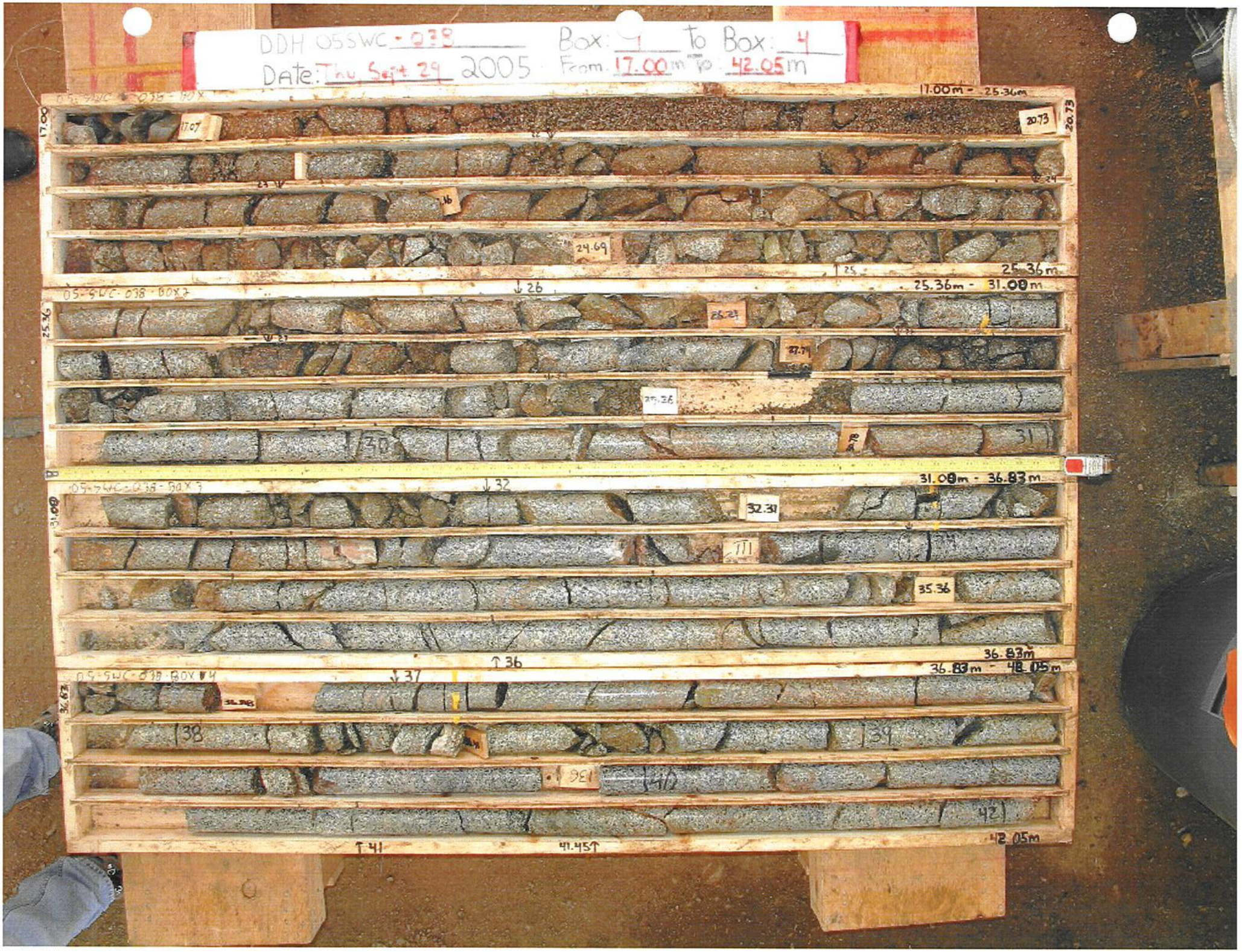
Recorded by: Matthew R. Kochtubajda

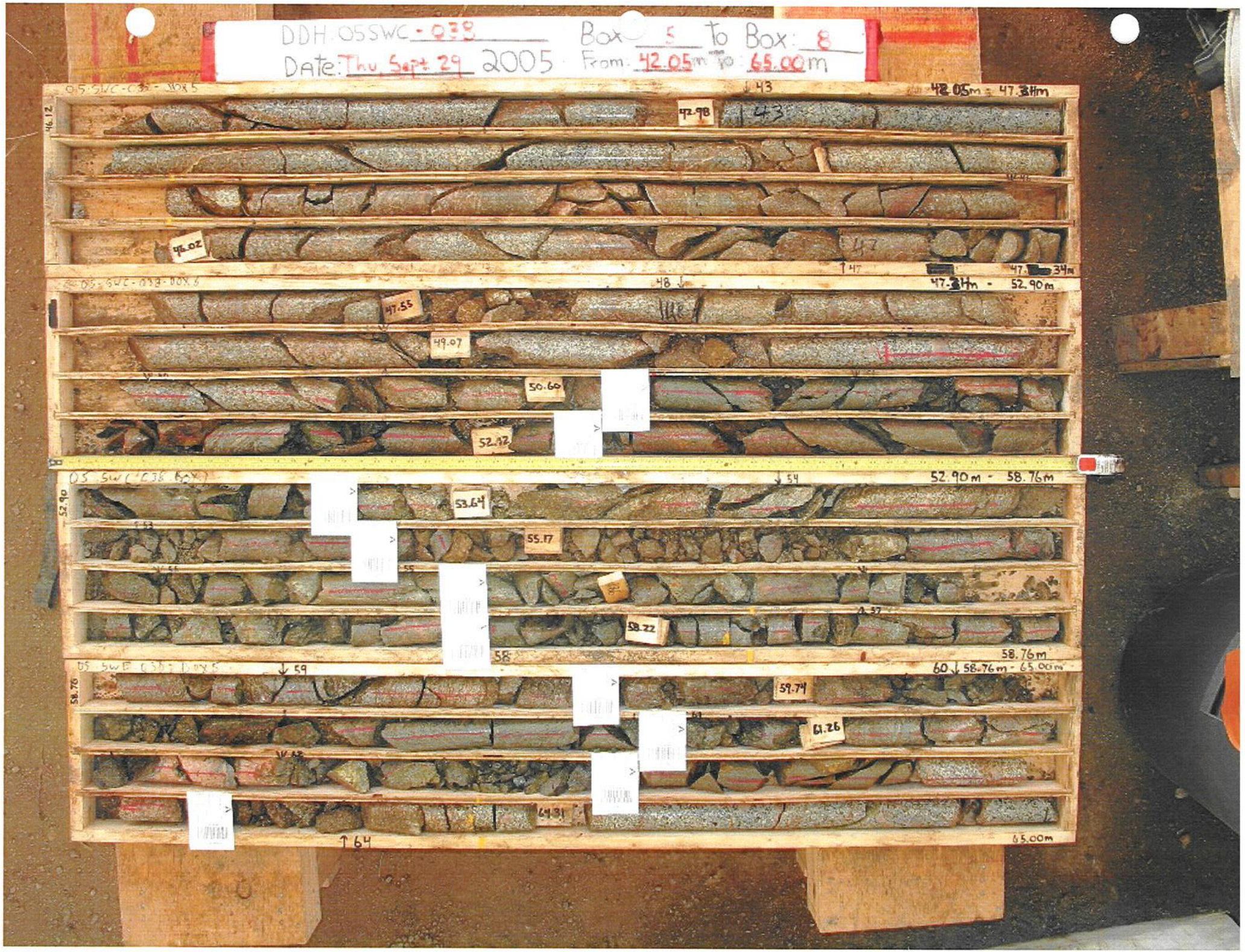
Project Number: _____ 05SWC-038

| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 26 | D | - | - | NQ | 1160 | broke along a weathered fracture |
| 26 | A | - | 31 | NQ | 2220 | |
| 32 | D | - | - | NQ | 3220 | broke along a weathered fracture |
| 32 | A | - | 33.5 | NQ | 680 | broke along a weathered fracture |
| 37 | D | - | - | NQ | 11280 | |
| 37 | A | - | 32.5 | NQ | 10220 | |
| 45 | D | - | - | NQ | 9200 | broke along a weathered fracture |
| 45 | A | - | 34.5 | NQ | 4500 | |
| 52 | D | L | - | NQ | 3400 | oke along a mineralized fracture (malach |
| 52 | A | - | 32 | NQ | 2880 | |
| 58 | D | II | - | NQ | 5120 | oke along a mineralized fracture (malach |
| 58 | A | - | 31 | NQ | 6940 | |
| 64 | D | L (?) | - | NQ | 1980 | crs-grained |
| 64 | A | - | 29 | NQ | 2260 | |
| 67 | D | - | - | NQ | 13180 | |
| 67 | A | - | 32 | NQ | 10360 | |
| 71 | D | - | - | NQ | 13820 | |
| 71 | A | - | 33 | NQ | 12600 | roke along a mineralized fracture (epidot |
| 79 | D | - | - | NQ | 2680 | |
| 79 | A | - | 31.5 | NQ | 9180 | |
| 82 | D | II | - | NQ | 3960 | nineralized fracture (visible chalcopyrite,r |
| 82 | A | - | 33.5 | NQ | 8380 | |
| 90 | D | - | - | NQ | 16060 | |
| 90 | A | - | 30 | NQ | 10940 | |
| 94 | D | - | - | NQ | 8480 | |
| 94 | A | - | 30.5 | NQ | 3860 | broke along a mineralized fracture |
| 105 | D | L | - | NQ | 7080 | lots of biotite |
| 105 | A | - | 31.5 | NQ | 6760 | broke along a weathered fracture |
| 107 | D | - | - | NQ | OFL | sample wouldn't break |
| 107 | A | - | 32.5 | NQ | 14460 | |
| 114 | D | - | - | NQ | 5440 | broke along a weathered fracture |
| 114 | A | - | 33.5 | NQ | 7220 | |
| 118 | D | - | - | NQ | 17000 | |
| 118 | A | - | 32 | NQ | 7520 | |
| 125 | D | - | - | NQ | 15700 | broke along a weathered fracture |
| 125 | A | - | 31.5 | NQ | 19260 | |
| 129 | D | - | - | NQ | 17120 | |
| 129 | A | - | 33 | NQ | 6960 | broke along a weathered fracture |
| 135 | D | - | - | NQ | 4380 | |
| 135 | A | - | 30 | NQ | 7040 | |
| 141 | D | - | - | NQ | 7960 | broke along a weathered fracture |
| 141 | A | - | 31 | NQ | 11500 | |
| 145 | D | - | - | NQ | 12840 | |
| 145 | A | - | 30 | NQ | 8520 | broke along a weathered fracture |
| 149 | D | - | - | NQ | 6680 | |
| 149 | A | - | 31 | NQ | 3340 | poor test |
| 154 | D | - | - | NQ | 10160 | |
| 154 | A | - | 30.5 | NQ | 5560 | broke along a weathered fracture |
| 161 | D | - | - | NQ | 15120 | chipped |
| 161 | A | - | 31 | NQ | 11440 | |

TYPE:

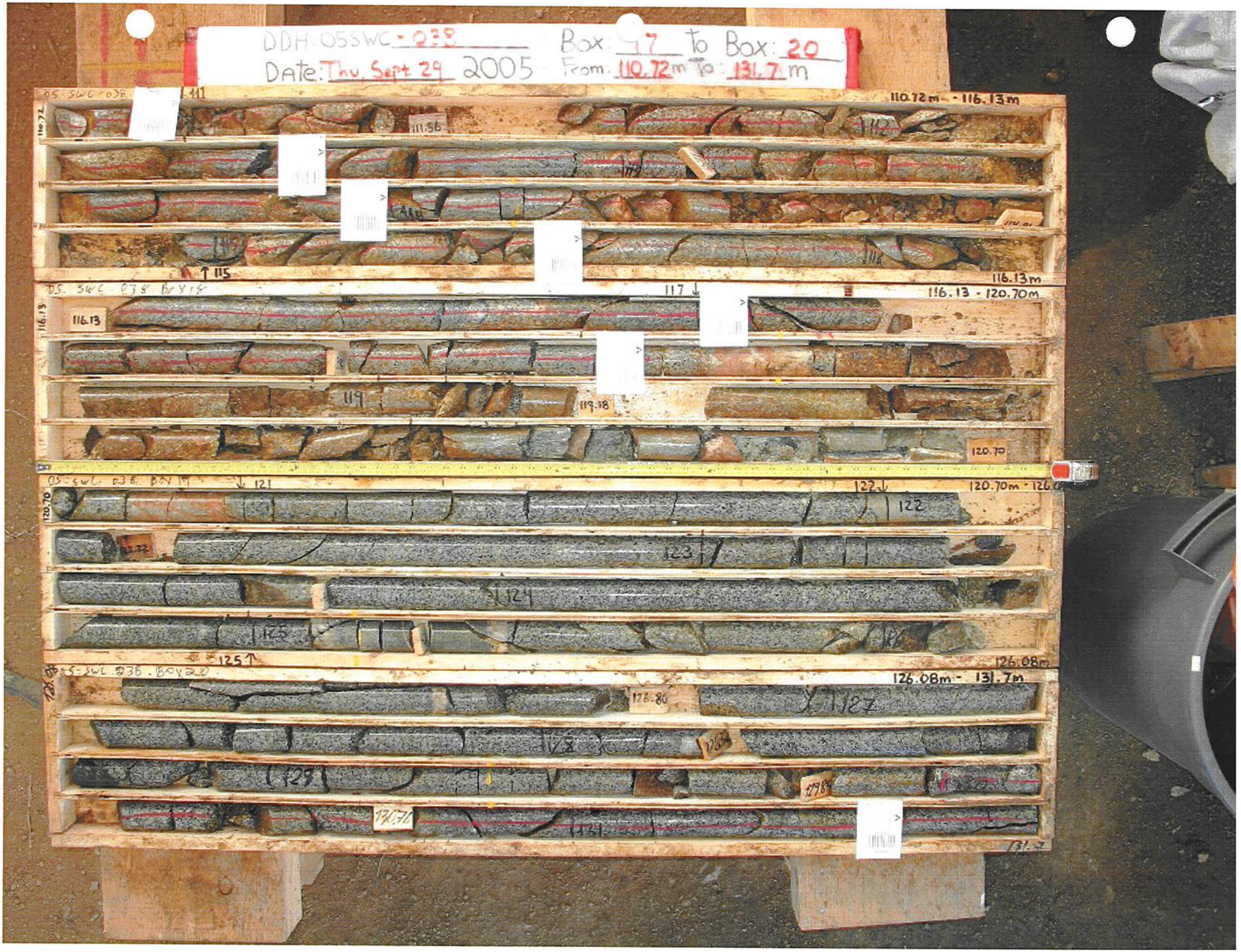
D - Diametral
A - Axial
L - Perpendicular
// - Parallel

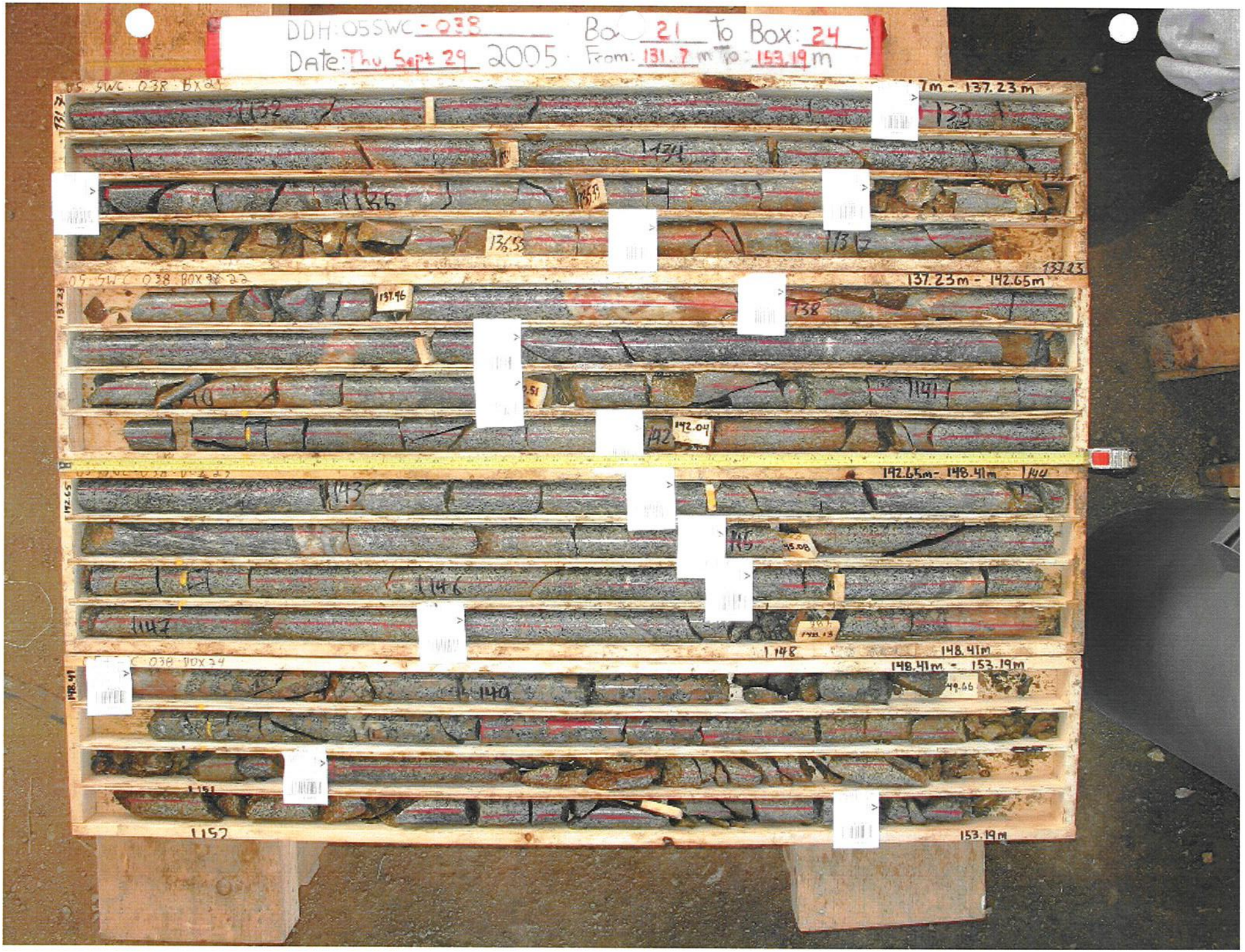

DDH 05SWC-038 Box: 1 to Box: 4
Date: Thu Sept 29 2005 From: 17.00m to 42.05m
17.00m - 25.36m
25.36m - 31.08m
31.08m - 36.83m
36.83m - 48.05m
20.73
24.69
25.36m
32.31
35.36
36.83m
42.05m

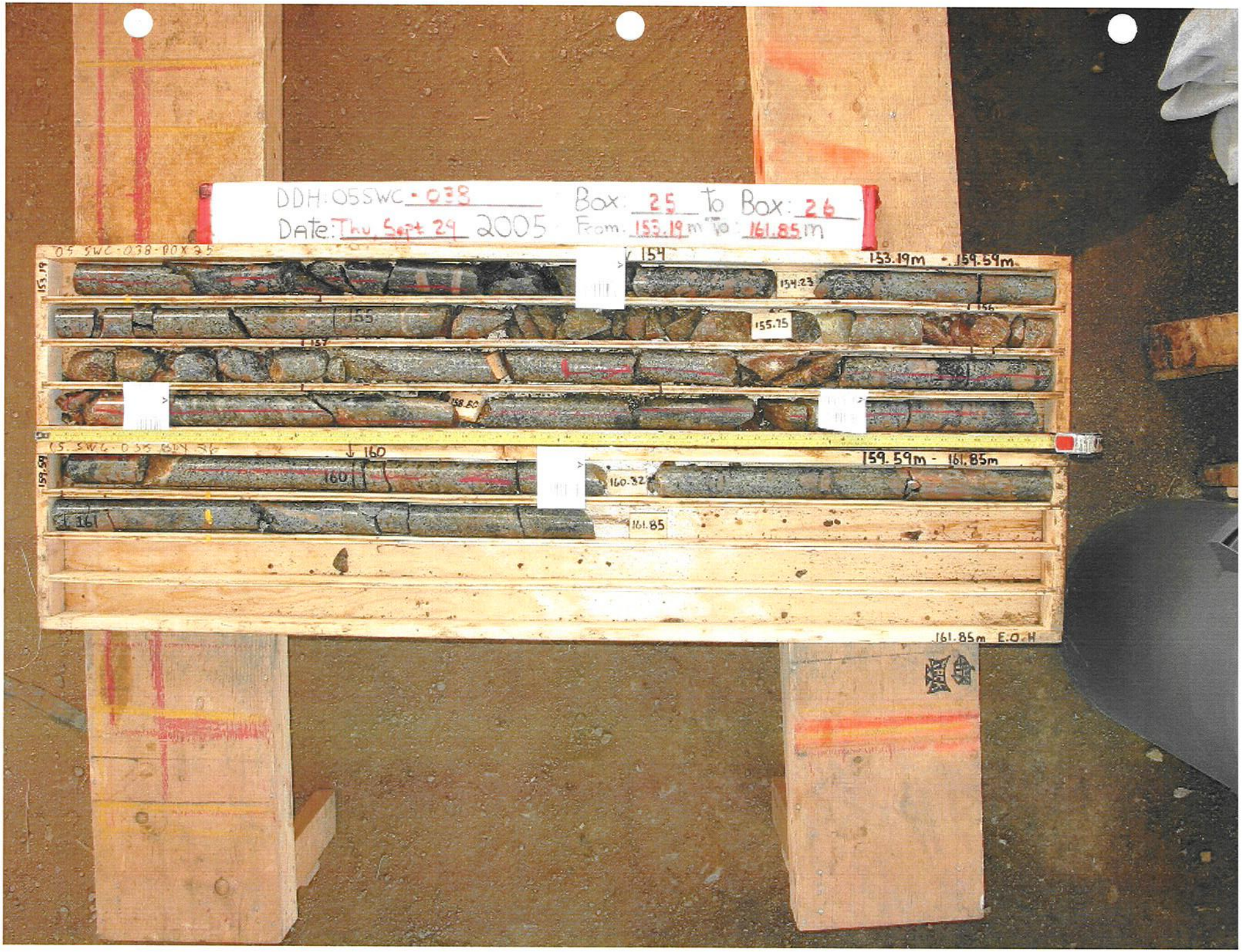

DDH: 05SWC-038 Box: 5 to Box: 8
Date: Thu Sept 29 2005 From: 42.05m To: 65.00m
42.05m - 47.34m
47.34m - 52.90m
52.90m - 58.76m
58.76m - 65.00m
47.98
46.02
47.55
49.07
50.60
52.42
53.64
55.17
58.22
59.74
61.26
64.31

DDH 05SWC-038 Box: 9 to Box: 12
Date: Thu Sept 29 2005 From: 65.00m To: 87.93m
65.00m - 70.80m
70.80m - 76.50m
76.50m - 82.09m
82.09m - 87.93m
65.84
67.36
68.88
71.93
74.98
76.50
78.03
79.25
80.11
82.09
83.82

DDH: 05SWC-038 Box: 13 To Box: 16
Date: Thu Sept 29 2005 From: 87.93m To: 110.72m
05-SWC-038-BOX 13
87.93m - 93.37m
93.37m - 99.36m
99.36m - 105.64m
105.64m - 110.72m
110.72m


DDH: 05SWC - 038
Box: 17 to Box: 20
Date: Thu, Sept 29 2005
From: 110.72m To: 131.7m
110.72m - 116.13m
116.13m
116.13 - 120.70m
120.70m - 126.08m
126.08m
126.08m - 131.7m


DDH: 05SWC-038
Box 21 to Box: 24
Date: Thu, Sept 29 2005
From: 131.7 m To: 153.19 m
137.23m - 142.65m
142.65m - 148.41m
148.41m - 153.19m
153.19m


DDH: 05SWC-038 Box: 25 to Box: 26
Date: Thu. Sept 29 2005 From: 153.19m To: 161.85m
05 SWC-038-BOX 25
153.19m - 159.59m
154
154.23
155
155.75
157
158.80
05 SWC-038 BOX 26
159.59m - 161.85m
160
160.32
161
161.85
161.85m E.O.H

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 039

Date Hole Started:
Date Hole Finished:
Total Hole Depth (m):
Depth of Casing (m): 15.24
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 15.24 | | | | | | | | | | | | | | | | | | | | | | | overburden- no measurments recorded |
| 18.59 | 3.35 | 1.00 | 1.71 | 51.04 | 0.45 | 13.43 | 14 | 1 | W5 | R | 1.0 | 0.5 | - | - | - | 0.0 | 1 | 6 | 10 | 1.5 | 4 | 0.21 | very weathered rock |
| 19.51 | 0.92 | 2.00 | 0.70 | 76.09 | 0.00 | 0.00 | 9999 | - | W6 | R | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 10 | 3 | 4 | 0 | crumbled up rock |
| 21.03 | 1.52 | 3.00 | 1.60 | 105.26 | 0.42 | 27.63 | 12 | 1 | W5 | R | 1.0 | 0.5 | - | - | - | 0.0 | 1 | 6 | 10 | 3 | 4 | 0.21 | very weathered rock |
| 21.64 | 0.61 | 4.00 | 0.46 | 75.41 | 0.00 | 0.00 | 9999 | - | W5 | R | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 10 | 3 | 4 | 0.51 | |
| 22.56 | 0.92 | 5.00 | 0.93 | 101.09 | 0.00 | 0.00 | 9999 | - | W6 | R | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.16 | crumbled up rock |
| 23.47 | 0.91 | 6.00 | 0.80 | 87.91 | 0.00 | 0.00 | 9999 | - | W6 | R | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.12 | crumbled up rock |
| 24.69 | 1.22 | 7.00 | 1.09 | 89.34 | 0.00 | 0.00 | 9999 | - | W5 | R | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 10 | 3 | 4 | 0.1 | very weathered rock |
| 25.91 | 1.22 | 8.00 | 1.06 | 86.89 | 0.47 | 38.52 | 6 | 1 | W5 | R | 1.0 | 0.5 | - | - | - | 0.0 | 1 | 6 | 10 | 3 | 4 | 0.23 | very weathered rock |
| 27.43 | 1.52 | 9.00 | 0.62 | 40.79 | 0.00 | 0.00 | 7 | 1 | W5 | R | 1.0 | 0.5 | - | - | - | 10.0 | 1.5 | 4 | 10 | 1.5 | 4 | 0.34 | very weathered rock |
| 28.96 | 1.53 | 10.00 | 1.42 | 92.81 | 0.11 | 7.19 | 9999 | - | W4 | R | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 10 | 3 | 4 | 0.51 | broken core |
| 30.18 | 1.22 | 11.00 | 1.16 | 95.08 | 0.15 | 12.30 | 9999 | - | W4 | R | 1.0 | 9999.0 | - | - | - | 10.0 | 3 | 4 | 10 | 3 | 4 | 0.23 | broken core |
| 30.78 | 0.60 | 12.00 | 1.18 | 196.67 | 0.14 | 23.33 | 9999 | - | W4 | R | 2.0 | 9999.0 | - | - | - | 10.0 | 3 | 4 | 10 | 3 | 4 | 0.34 | broken core |
| 32.31 | 1.53 | 13.00 | 1.43 | 93.46 | 0.25 | 16.34 | 7 | 1 | W4 | R | 2.0 | 3.0 | 2.0 | 33.0 | - | 10.0 | 3 | 4 | 10 | 1.5 | 4 | 0.14 | |
| 33.83 | 1.52 | 14.00 | 1.08 | 71.05 | 0.58 | 38.16 | 5 | 0 | W4 | R | 2.0 | 0.5 | - | - | - | 0.0 | 1 | 6 | 10 | 3 | 4 | 0.09 | |
| 35.36 | 1.53 | 15.00 | 1.37 | 89.54 | 0.31 | 20.26 | 10 | 1 | W4 | R | 3.0 | 3.0 | 3.0 | 57.0 | - | 10.0 | 3 | 4 | 12 | 1.5 | 4 | 0.51 | |
| 36.88 | 1.52 | 16.00 | 1.56 | 102.63 | 0.11 | 7.24 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 13 | 3 | 4 | 0.07 | broken core |
| 38.40 | 1.52 | 17.00 | 1.49 | 98.03 | 0.54 | 35.53 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 1.5 | 4 | 0.49 | broken core |
| 39.93 | 1.53 | 18.00 | 1.09 | 71.24 | 0.35 | 22.88 | 10 | 1 | W4 | R | 3.0 | 6.0 | 6.0 | 59.0 | 130.0 | 0.0 | 1 | 6 | 12 | 3 | 4 | 0.18 | |
| 41.45 | 1.52 | 19.00 | 1.45 | 95.39 | 0.48 | 31.58 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 0.09 | broken core |
| 42.98 | 1.53 | 20.00 | 1.28 | 83.66 | 0.37 | 24.18 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 12 | 3 | 4 | 0.05 | broken core |
| 44.50 | 1.52 | 21.00 | 1.52 | 100.00 | 0.25 | 16.45 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 14 | 3 | 4 | 0.93 | broken core |
| 46.02 | 1.52 | 22.00 | 1.29 | 84.87 | 0.60 | 39.47 | 9 | 1 | W4 | R | 3.0 | 6.0 | 6.0 | 52.0 | 156.0 | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.96 | |
| 47.55 | 1.53 | 23.00 | 1.50 | 98.04 | 0.46 | 30.07 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 1.5 | 4 | 0.76 | broken core |
| 49.07 | 1.52 | 24.00 | 1.31 | 86.18 | 0.46 | 30.26 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.14 | broken core |
| 50.60 | 1.53 | 25.00 | 1.59 | 103.92 | 0.72 | 47.06 | 11 | 1 | W4 | R | 3.0 | 6.0 | 14.0 | 55.0 | 141.0 | 14.0 | 3 | 4 | 16 | 3 | 4 | 0 | |
| 52.12 | 1.52 | 26.00 | 1.52 | 100.00 | 0.65 | 42.76 | 8 | 1 | W4 | R | 3.0 | 6.0 | 4.0 | 47.0 | 151.0 | 16.0 | 3 | 4 | 16 | 1.5 | 4 | 0.25 | |
| 53.64 | 1.52 | 27.00 | 1.40 | 92.11 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 4 | 16 | 3 | 2 | 0.05 | malachite starting to show on joint surfaces |
| 55.17 | 1.53 | 28.00 | 1.48 | 96.73 | 0.12 | 7.84 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 2 | 16 | 3 | 2 | 0.07 | visible malachite |
| 56.69 | 1.52 | 29.00 | 1.65 | 108.55 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 2 | 16 | 3 | 2 | 0.67 | visible malachite |
| 58.22 | 1.53 | 30.00 | 1.51 | 98.69 | 0.11 | 7.19 | 24 | 2 | W3.5 | R | 3.0 | 6.0 | 4.0 | 49.0 | 135.0 | 16.0 | 3 | 2 | 16 | 1.5 | 2 | 9.33 | ible malachite; starting to see bands of magnetite |
| 59.74 | 1.52 | 31.00 | 1.23 | 80.92 | 0.38 | 25.00 | 12 | 1 | W3.5 | R | 3.0 | 6.0 | 4.0 | 36.0 | 165.0 | 16.0 | 3 | 2 | 16 | 1.5 | 2 | 94.2 | malachite; bands of magnetite |
| 61.26 | 1.52 | 32.00 | 1.35 | 88.82 | 0.14 | 9.21 | 12 | 1 | W3.5 | R | 3.0 | 6.0 | 5.0 | 180.0 | 58.0 | 16.0 | 3 | 2 | 16 | 1.5 | 2 | 0 | |
| 62.79 | 1.53 | 33.00 | 1.51 | 98.69 | 0.26 | 16.99 | 17 | 1 | W3.5 | R | 3.0 | 6.0 | 6.0 | 41.0 | 132.0 | 16.0 | 3 | 2 | 16 | 1.5 | 2 | 0.25 | starting to see chalcopyrite |
| 64.31 | 1.52 | 34.00 | 1.45 | 95.39 | 0.34 | 22.37 | 17 | 1 | W3 | R | 3.0 | 3.0 | 8.0 | 70.0 | - | 16.0 | 3 | 2 | 16 | 1.5 | 2 | 34.5 | |
| 65.84 | 1.53 | 35.00 | 1.63 | 106.54 | 0.57 | 37.25 | 18 | 1 | W3 | R | 3.0 | 6.0 | 16.0 | 33.0 | 144.0 | 16.0 | 3 | 2 | 16 | 3 | 2 | 13.5 | visible malachite, bornite, chalcopyrite |
| 67.36 | 1.52 | 36.00 | 1.48 | 97.37 | 0.78 | 51.32 | 15 | 1 | W3 | R | 3.0 | 12.0 | 3.0 | 58.0 | 113.0 | 16.0 | 3 | 2 | 16 | 1.5 | 2 | 21.1 | isible malachite, bornite, chalcopyrite, magnetite |
| 68.88 | 1.52 | 37.00 | 1.60 | 105.26 | 1.11 | 73.03 | 11 | 1 | W3 | R | 3.0 | 6.0 | 10.0 | 56.0 | 133.0 | 16.0 | 3 | 2 | 18 | 1.5 | 2 | 248 | isible malachite, bornite, chalcopyrite, magnetite |
| 70.41 | 1.53 | 38.00 | 1.61 | 105.23 | 0.85 | 55.56 | 10 | 1 | W3 | R | 3.0 | 3.0 | 4.0 | 56.0 | - | 18.0 | 3 | 2 | 18 | 1.5 | 2 | 23.9 | |
| 71.93 | 1.52 | 39.00 | 1.51 | 99.34 | 0.36 | 23.68 | 11 | 1 | W3 | R | 3.0 | 6.0 | 14.0 | 61.0 | 122.0 | 18.0 | 3 | 2 | 18 | 3 | 2 | 81.3 | |
| 73.46 | 1.53 | 40.00 | 1.34 | 87.58 | 0.66 | 43.14 | 14 | 1 | W3 | R | 3.0 | 6.0 | 2.0 | 59.0 | 117.0 | 18.0 | 3 | 2 | 18 | 1.5 | 2 | 0.82 | malachite on joint surfaces |

## POINT LOAD TEST RECORD



Project Name: _____Minto

Date: _____ Saturday, October 1,2005

Recorded by: Matthew R. Kochtubajda

Project Number: _____05SWC-039

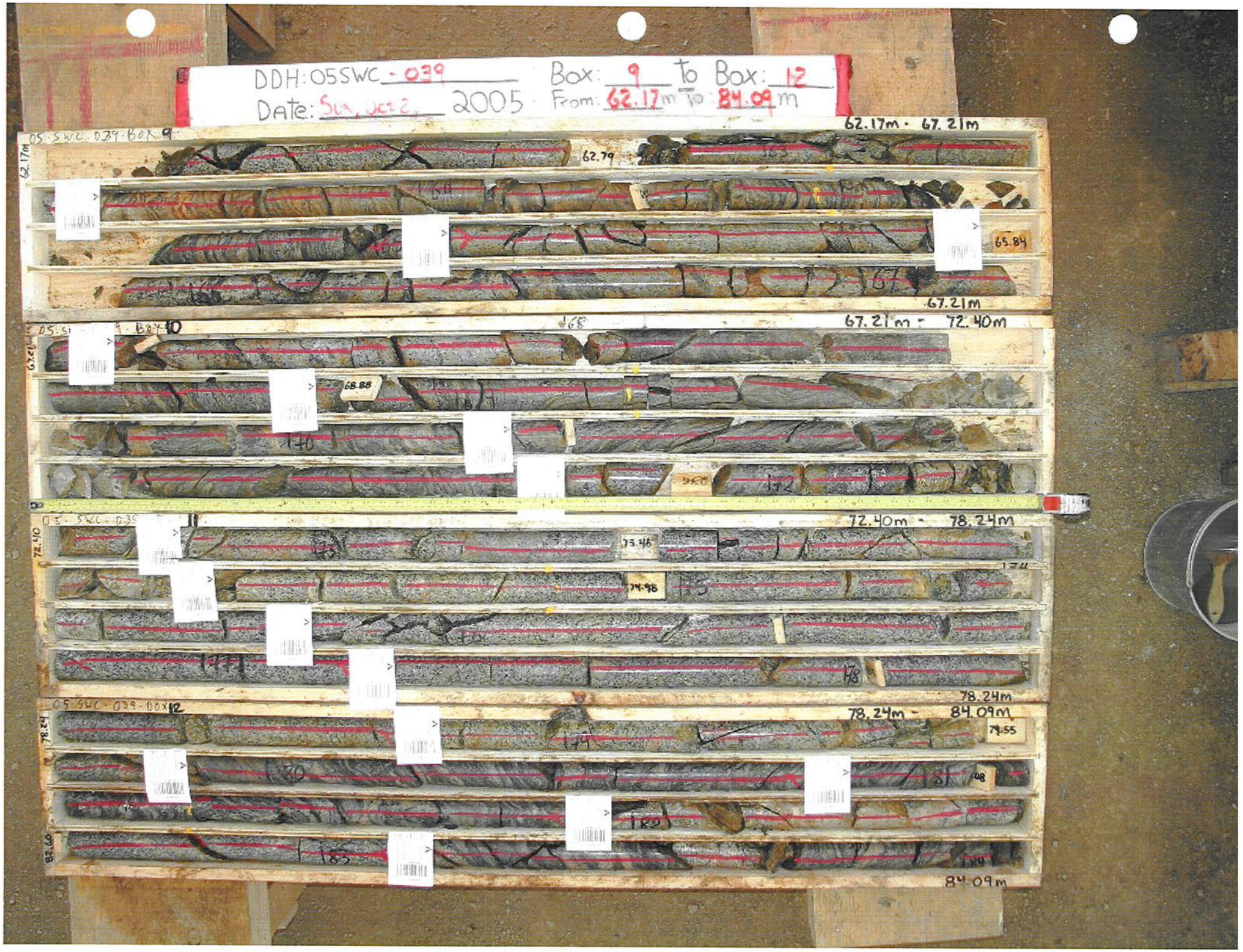
| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 16 | D | - | - | NQ | 340 | poor test; very weathered rock |
| 16 | A | - | 39 | NQ | 180 | poor test; very weathered rock |
| 37 | D | - | - | NQ | 7780 | |
| 37 | A | - | 32.5 | NQ | 3120 | broke along a weathered fracture |
| 45 | D | - | - | NQ | 2820 | |
| 45 | A | - | 32.5 | NQ | 3480 | |
| 50 | D | - | - | NQ | 5900 | broke along a weathered fracture |
| 50 | A | - | 31.5 | NQ | 2180 | broke along a weathered fracture |
| 51 | D | - | - | NQ | 3760 | |
| 51 | A | - | 30.5 | NQ | 3680 | broke along a weathered fracture |
| 57 | D | - | - | NQ | 2880 | broke along a weathered fracture |
| 57 | A | - | 32 | NQ | 2040 | ke along a weathered fracture; lots of bio |
| 64 | D | II | - | NQ | 3720 | broke along a weathered fracture |
| 64 | A | - | 30 | NQ | 3440 | broke along a weathered fracture |
| 69 | D | - | - | NQ | 7960 | broke along a weathered fracture |
| 69 | A | - | 35 | NQ | 440 | poor test; weathered fracture |
| 73 | D | - | - | NQ | 16540 | chipped |
| 73 | A | - | 30 | NQ | 14280 | porphoryblastic granidorite |
| 81 | D | L | - | NQ | 14900 | |
| 81 | A | - | 32 | NQ | 5920 | broke along a weathered fracture |
| 85 | D | II | - | NQ | 12940 | |
| 85 | A | - | 31 | NQ | OFL | ORE |
| 91 | D | - | - | NQ | 15980 | mostly qtz, crs-grained |
| 91 | A | - | 35 | NQ | 12520 | |
| 99 | D | - | - | NQ | 17520 | |
| 99 | A | - | 30 | NQ | 9640 | broke along a fracture |
| 102 | D | - | - | NQ | OFL | sample would not break; (chipped) |
| 102 | A | - | 31.5 | NQ | 12860 | |
| 110 | D | - | - | NQ | 14440 | |
| 110 | A | - | 33 | NQ | 13000 | |
| 114 | D | - | - | NQ | 10240 | chipped; 2nd try broke 8940 |
| 114 | A | - | 35 | NQ | 14220 | mostly qtz, crs-grained |
| 118 | D | - | - | NQ | 18220 | |
| 118 | A | - | 30.5 | NQ | 13140 | |
| 123 | D | - | - | NQ | 18100 | broke along a weathered fracture |
| 123 | A | - | 33.5 | NQ | 18860 | |
| 128 | D | - | - | NQ | OFL | sample would not break; (chipped) |
| 128 | A | - | 32 | NQ | 14540 | |
| 133 | D | - | - | NQ | 9300 | broke along a weathered fracture |
| 133 | A | - | 32 | NQ | 9040 | broke along a weathered fracture |
| 141 | D | - | - | NQ | 13640 | |
| 141 | A | - | 32 | NQ | 7140 | broke along a weathered fracture |
| 147 | D | - | - | NQ | 9280 | broke along a weathered fracture |
| 147 | A | - | 34 | NQ | 2780 | broke along a weathered fracture |
| 151 | D | - | - | NQ | 9860 | poor test |
| 151 | A | - | 33.5 | NQ | 11980 | broke along a fracture |
| 155 | D | - | - | NQ | 13200 | ipped; 2nd try 12360 (weathered fracture |
| 155 | A | - | 34 | NQ | 7000 | broke along a weathered fracture |
| 159 | D | - | - | NQ | 8860 | poor test; along a weathered fracture |
| 159 | A | - | 32 | NQ | 2720 | ke along a mineralized fracture (chalcopy |
| 166 | D | - | - | NQ | 16980 | mostly qtz; crs-grained |
| 166 | A | - | 32 | NQ | 7720 | broke along a weathered fracture |

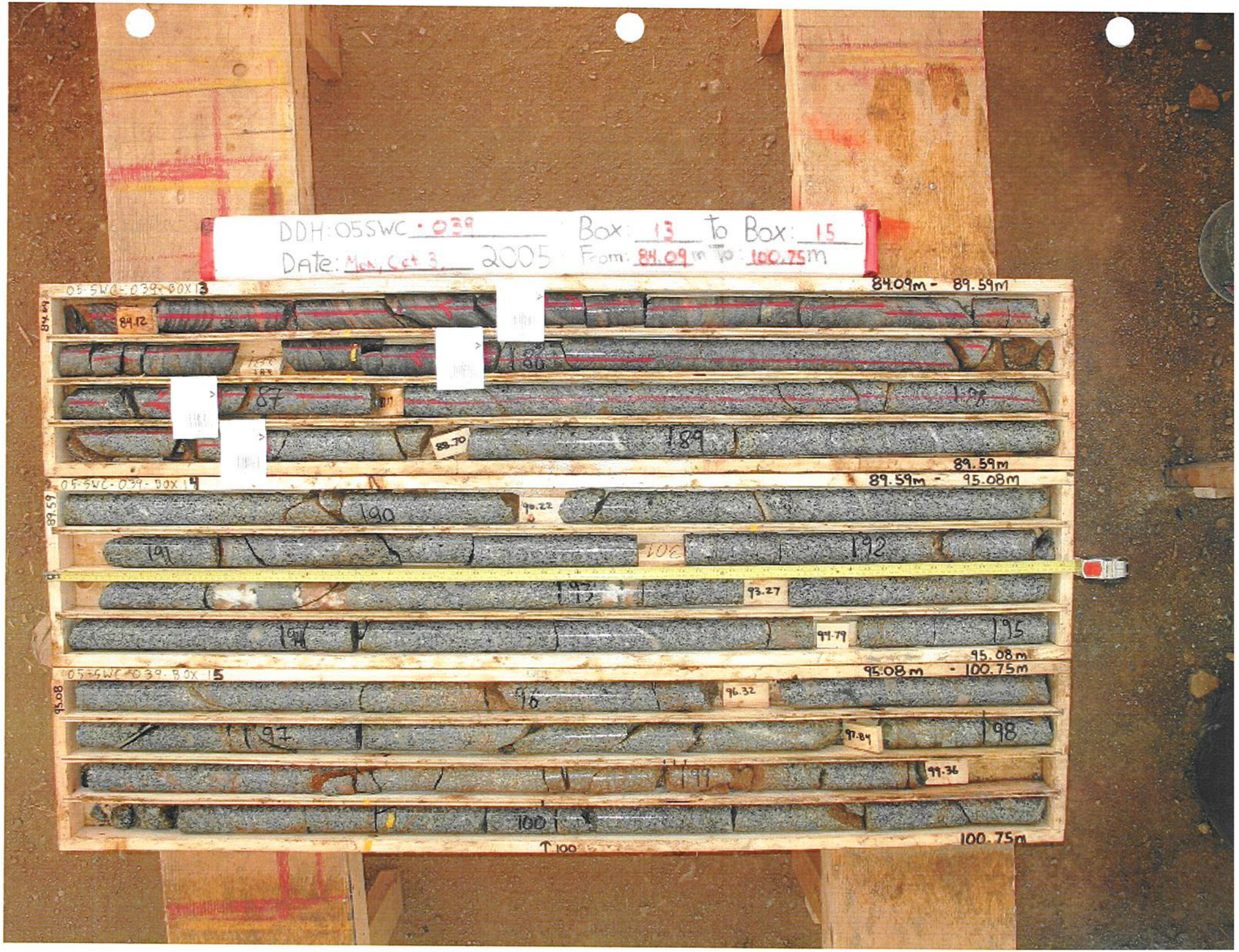
TYPE:

D - Diametral
A - Axial
L - Perpendicular
// - Parallel

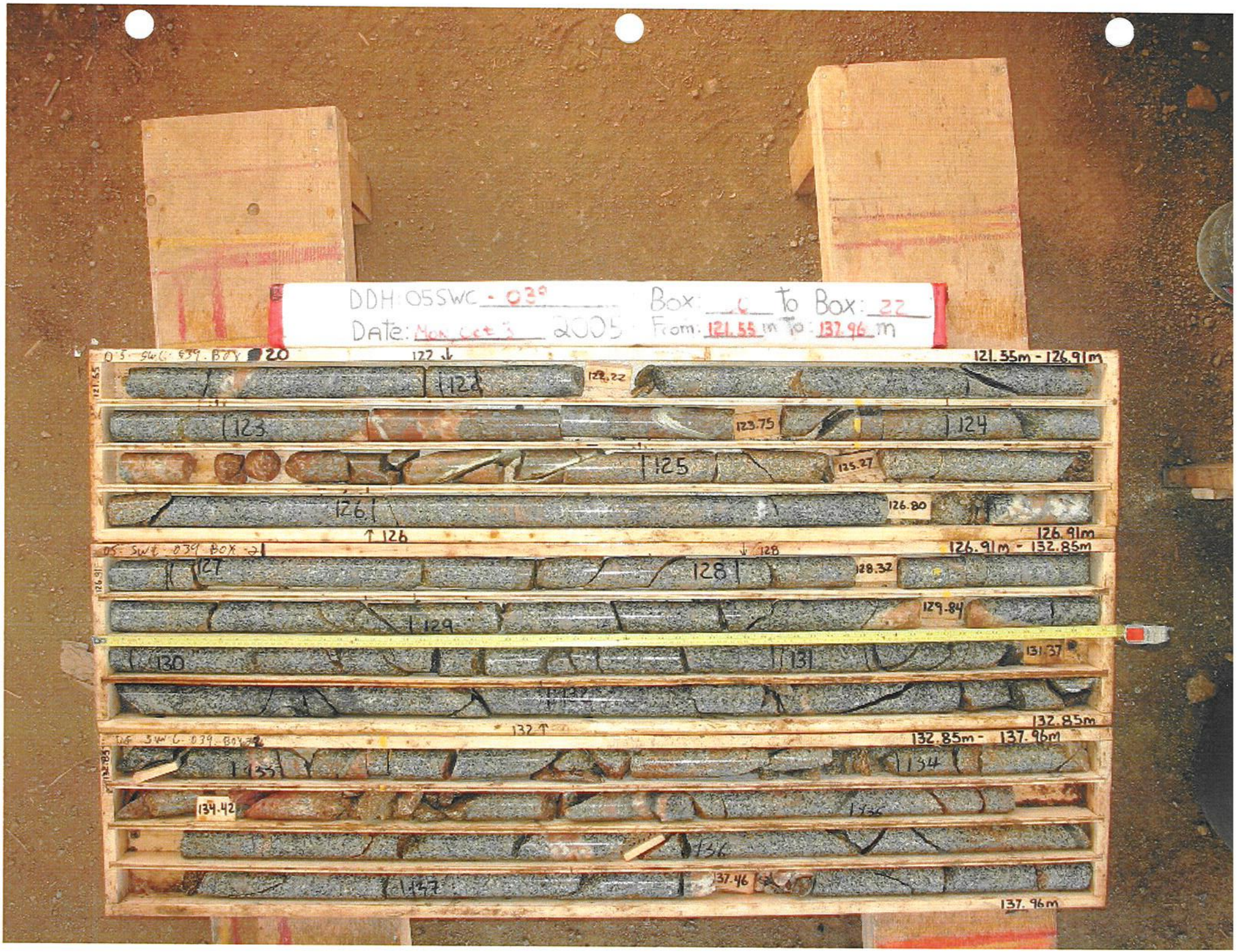
DDH 05SWC-039 Box: 1 to 4
Date: Sept 2005 From: 15.24m To: 40.37m
05-SWC-039 BOX1
15.24m - 22.56m
15.24 CASING
18.59
21.03
21.64
22.56
22.56m
05-SWC-039 BOX2
22.56m - 28.12m
23.47
24.69
25.91
27.43
28.96
05-SWC-039-BOX3
28.12m - 35.00m
30.18
30.78
32.31
33.83
134
135.00m
35.00m - 40.37m
137
38.40
139
140
40.37m

DDH: 05SWC-039 Box: 5 to Box: 8
Date: Sun, Oct 2, 2005 From: 40.37m To: 62.17m
40.37m - 46.12m
46.12m - 51.30m
51.30m - 56.55m
41.45
42.98
44.50
46.02
47.55
49.07
50.60
52.12
53.64
55.17
58.22
59.71
61.26
62.17m

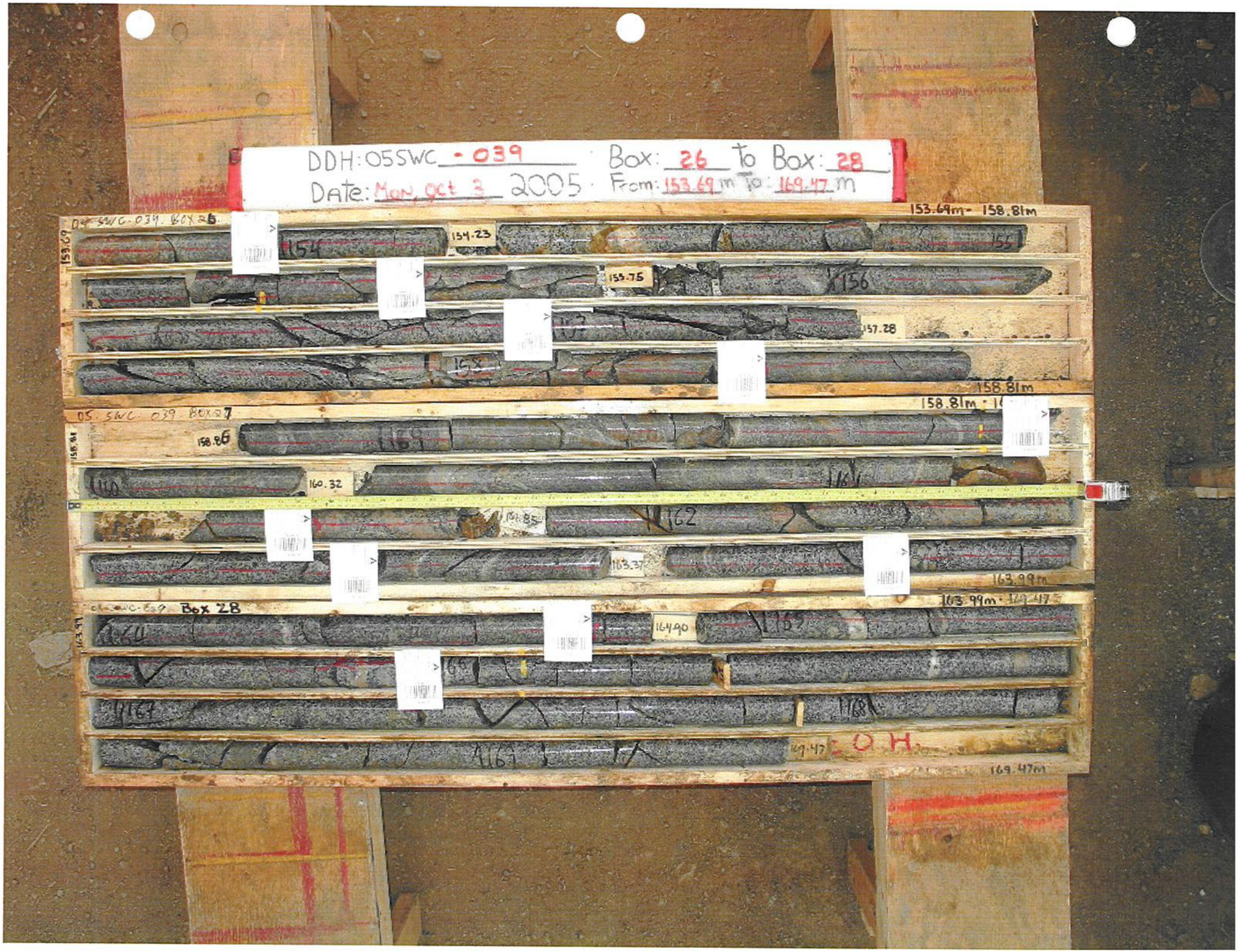

DDH: 05SWC - 039
Box: 9 to Box: 12
Date: Sun, Oct 2, 2005
From: 62.17m To: 84.09m
62.17m - 67.21m
67.21m - 72.40m
72.40m - 78.24m
78.24m - 84.09m
84.09m


DDH: 05SWC-039 Box: 13 to Box: 15
Date: Mon, Oct 3. 2005 From: 84.09m To: 100.75m
05-SWC-039-BOX 13
84.09m - 89.59m
84.12
87
88.70
89
89.59m
05-SWC-039-BOX 14
89.59m - 95.08m
90.22
90
91
92
93.27
94
95
95.08m
05-SWC-039-BOX 15
95.08m - 100.75m
96.32
96
97
97.84
98
99.36
100
100.75m

DDH: 05SWC-039 Box: 16 to Box: 19
Date: Mon, Oct 3, 2005 From: 100.75m To: 121.55m
05-SWC-039-BOX 16
100.75m - 105.59m
101
102
104
105
105.46
105.59m
05-SWC-039-BOX 17
105.59m - 111.00m
106
106.78
107
108
108.51
109
110
03
111
05-SWC-039-BOX 18
111.00m - 116.13m
112
111.56
113
113.08
114
114.60
115
116
116.13
116.13m
05-SWC-039-BOX 19
116.13m - 121.55m
117
118
119
119.18
120
120.70
121
121.55m


DDH: 05SWC - 039
Box: 6 To Box: 22
Date: Mon Oct 3 2005
From: 121.55 m To: 137.96 m
121.55m - 126.91m
126.91m
126.91m - 132.85m
132.85m
132.85m - 137.96m
137.96m

DDH: 05SWC - 039 Box: 23 to Box: 25
Date: Mon, Oct 3 2005 From: 137.96 m To: 153.69 m
05. SWC. 039. Box. 23
137.96m - 143.24m
137.96
142.04
143.24m
05. SWC. 039. Box 24
143.24m - 148.44m
143.24
143.56
146.61
148.13
148.44m
05. SWC. 039. Box 25
148.44m - 153.69m
148.44
153.69m


DDH: 05SWC - 039 Box: 26 to Box: 28
Date: Mon, Oct 3 2005 From: 153.69 m To: 169.47 m
153.69m - 158.81m
05 SWC 039 Box 26
154.23
155.75
157.28
158.81m
158.81m - 163.99m
05 SWC 039 Box 27
158.86
160.32
163.37
163.99m
163.99m - 169.47m
05 SWC 039 Box 28
164.40
169.47
E O H
169.47m

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 040

Date Hole Started:
Date Hole Finished: Wednesday, October 5, 2005
Total Hole Depth (m): 163.37
Depth of Casing (m): 61.26
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 61.26 | | | | | | | | | | | | | | | | | | | | | | | overburden - no measurments recrded |
| 64.31 | 3.05 | 1.00 | 0.51 | 16.72 | 0.13 | 4.26 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 0 | broken core |
| 67.36 | 3.05 | 2.00 | 0.29 | 9.51 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 0.01 | broken core |
| 69.80 | 2.44 | 3.00 | 0.86 | 35.25 | 0.00 | 0.00 | 9999 | - | W6 | S | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0 | broken core; bits of crushed rock and sand |
| 70.41 | 0.61 | 4.00 | 0.42 | 68.85 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 0.07 | broken core |
| 71.32 | 0.91 | 5.00 | 0.55 | 60.44 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 1.5 | 4 | 0.36 | broken core |
| 73.15 | 1.83 | 6.00 | 1.35 | 73.77 | 0.58 | 31.69 | 11 | 1 | W4 | R | 3.0 | 3.0 | 3.0 | 47.0 | - | 12.0 | 1.5 | 4 | 12 | 1.5 | 4 | 0.07 | |
| 73.46 | 0.31 | 7.00 | 0.32 | 103.23 | 0.15 | 48.39 | 2 | 0 | W4 | R | 3.0 | 0.5 | - | - | - | 12.0 | 1.5 | 2 | 12 | 1.5 | 2 | 0 | visible azaurite between joints |
| 74.98 | 1.52 | 8.00 | 1.54 | 101.32 | 0.87 | 57.24 | 11 | 1 | W4 | R | 3.0 | 6.0 | 3.0 | 50.0 | 180.0 | 12.0 | 3 | 4 | 12 | 1.5 | 2 | 0.4 | visible azaurite and malachite on joint walls |
| 77.42 | 2.44 | 9.00 | 2.12 | 86.89 | 0.11 | 4.51 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 12.0 | 3 | 2 | 12 | 3 | 2 | 0.03 | ken core; visible malachite; lots of weathered biotite |
| 77.72 | 0.30 | 10.00 | 0.23 | 76.67 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 12.0 | 3 | 4 | 12 | 3 | 4 | 0.29 | broken core |
| 80.77 | 3.05 | 11.00 | 3.06 | 100.33 | 0.77 | 25.25 | 35 | 4 | W4 | R | 2.5 | 6.0 | 2.0 | 60.0 | 151.0 | 12.0 | 3 | 4 | 12 | 1.5 | 2 | 0.36 | visible malachite |
| 82.30 | 1.53 | 12.00 | 1.53 | 100.00 | 0.00 | 0.00 | 9999 | - | W4 | R | 2.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 12 | 1.5 | 4 | 0.4 | broken core |
| 84.12 | 1.82 | 13.00 | 1.96 | 107.69 | 0.27 | 14.84 | 9999 | - | W5 | R | 2.0 | 9999.0 | - | - | - | 10.0 | 3 | 4 | 10 | 3 | 4 | 0.4 | broken core |
| 87.17 | 3.05 | 14.00 | 3.02 | 99.02 | 1.09 | 35.74 | 26 | 2 | W3 | R | 3.0 | 6.0 | 3.0 | 40.0 | 126.0 | 12.0 | 3 | 4 | 14 | 1.5 | 4 | 0.14 | |
| 90.22 | 3.05 | 15.00 | 3.10 | 101.64 | 2.38 | 78.03 | 18 | 2 | W3 | R | 3.0 | 6.0 | 4.0 | 32.0 | 143.0 | 14.0 | 1.5 | 4 | 14 | 1.5 | 4 | 0 | |
| 91.14 | 0.92 | 16.00 | 0.88 | 95.65 | 0.51 | 55.43 | 4 | 1 | W3 | R | 3.0 | 3.0 | 3.0 | 60.0 | - | 16.0 | 3 | 2 | 16 | 1.5 | 4 | 0.62 | specks of malachite |
| 93.27 | 2.13 | 17.00 | 1.98 | 92.96 | 0.44 | 20.66 | 22 | 2 | W3 | R | 3.0 | 12.0 | 3.0 | 56.0 | 108.0 | 16.0 | 3 | 4 | 16 | 3 | 4 | 1.07 | |
| 94.03 | 0.76 | 18.00 | 1.08 | 142.11 | 0.25 | 32.89 | 9999 | - | W3 | R | 3.0 | 9999.0 | - | - | - | 16.0 | 3 | 4 | 16 | 1.5 | 2 | 8.78 | broken core; visible chalcopyrite on joint walls |
| 95.40 | 1.37 | 19.00 | 1.19 | 86.86 | 0.32 | 23.36 | 9 | 2 | W3 | R | 3.0 | 0.5 | - | - | - | 16.0 | 3 | 4 | 16 | 3 | 2 | 31.9 | traces of chalcopyrite, visible magnetite |
| 97.54 | 2.14 | 20.00 | 2.14 | 100.00 | 0.80 | 37.38 | 22 | 2 | W3 | R | 3.0 | 6.0 | 5.0 | 70.0 | 126.0 | 16.0 | 3 | 4 | 16 | 3 | 2 | 11.2 | visible chalcopyrite |
| 99.36 | 1.82 | 21.00 | 1.61 | 88.46 | 0.23 | 12.64 | 21 | 2 | W3 | R | 3.0 | 6.0 | 6.0 | 39.0 | 144.0 | 16.0 | 3 | 4 | 16 | 3 | 2 | 9.64 | |
| 100.89 | 1.53 | 22.00 | 1.66 | 108.50 | 0.28 | 18.30 | 20 | 3 | W3 | R | 3.0 | 6.0 | 3.0 | 61.0 | 133.0 | 16.0 | 3 | 4 | 16 | 3 | 2 | 108 | visible bands of magnetite |
| 102.41 | 1.52 | 23.00 | 1.40 | 92.11 | 0.58 | 38.16 | 13 | 1 | W3 | R | 3.0 | 3.0 | 6.0 | 44.0 | - | 16.0 | 1.5 | 4 | 16 | 3 | 2 | 8.78 | |
| 105.46 | 3.05 | 24.00 | 3.13 | 102.62 | 1.83 | 60.00 | 32 | 3 | W3 | R | 3.0 | 6.0 | 3.0 | 68.0 | 132.0 | 16.0 | 3 | 2 | 16 | 3 | 2 | 25.4 | |
| 108.51 | 3.05 | 25.00 | 3.12 | 102.30 | 1.63 | 53.44 | 33 | 4 | W3 | R | 3.0 | 6.0 | 8.0 | 36.0 | 128.0 | 16.0 | 1.5 | 2 | 16 | 1.5 | 2 | 20.6 | |
| 111.56 | 3.05 | 26.00 | 3.24 | 106.23 | 1.18 | 38.69 | 34 | 6 | W3 | R | 3.0 | 6.0 | 8.0 | 55.0 | 140.0 | 16.0 | 3 | 4 | 16 | 3 | 2 | 3.34 | |
| 114.60 | 3.04 | 27.00 | 3.15 | 103.62 | 1.39 | 45.72 | 29 | 2 | W3 | R | 3.0 | 6.0 | 3.0 | 67.0 | 136.0 | 16.0 | 1.5 | 8 | 16 | 1.5 | 4 | 6.11 | |
| 117.65 | 3.05 | 28.00 | 3.02 | 99.02 | 2.63 | 86.23 | 15 | 1 | W3 | R | 3.0 | 4.0 | 4.0 | 52.0 | 123.0 | 18.0 | 1.5 | 4 | 18 | 1.5 | 1 | 0.78 | |
| 120.70 | 3.05 | 29.00 | 3.04 | 99.67 | 2.20 | 72.13 | 18 | 2 | W2 | R | 3.0 | 4.0 | 10.0 | 60.0 | 161.0 | 18.0 | 3 | 4 | 18 | 3 | 4 | 0.43 | |
| 123.75 | 3.05 | 30.00 | 3.11 | 101.97 | 2.46 | 80.66 | 14 | 2 | W2 | R | 3.0 | 4.0 | 3.0 | 61.0 | 114.0 | 18.0 | 1.5 | 2 | 20 | 1.5 | 1 | 0.38 | |
| 126.80 | 3.05 | 31.00 | 2.98 | 97.70 | 2.36 | 77.38 | 16 | 2 | W2 | R | 3.0 | 4.0 | 10.0 | 55.0 | 149.0 | 18.0 | 1.5 | 1 | 18 | 1.5 | 1 | 0 | |
| 129.84 | 3.04 | 32.00 | 3.14 | 103.29 | 2.24 | 73.68 | 17 | 2 | W2 | R | 3.0 | 6.0 | 4.0 | 28.0 | 148.0 | 18.0 | 1.5 | 1 | 18 | 1.5 | 1 | 0.45 | |
| 132.89 | 3.05 | 33.00 | 2.91 | 95.41 | 2.21 | 72.46 | 19 | 2 | W2 | R | 3.0 | 4.0 | 3.0 | 56.0 | 121.0 | 18.0 | 1.5 | 2 | 18 | 1.5 | 1 | 0.78 | |
| 135.94 | 3.05 | 34.00 | 3.21 | 105.25 | 1.34 | 43.93 | 33 | 3 | W3 | R | 3.0 | 6.0 | 4.0 | 30.0 | 137.0 | 20.0 | 3 | 1 | 20 | 3 | 2 | 0.4 | starting to see chalcopyrite on joint walls again |
| 138.99 | 3.05 | 35.00 | 3.19 | 104.59 | 1.34 | 43.93 | 9999 | - | W3 | R | 3.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 20 | 3 | 4 | 0.65 | broken core |
| 142.04 | 3.05 | 36.00 | 3.04 | 99.67 | 2.07 | 67.87 | 23 | 2 | W3 | R | 3.0 | 6.0 | 3.0 | 47.0 | 136.0 | 20.0 | 3 | 2 | 20 | 3 | 2 | 3.01 | visible chalcopyrite on joint walls |
| 145.08 | 3.04 | 37.00 | 3.04 | 100.00 | 2.27 | 74.67 | 23 | 2 | W3 | R | 3.0 | 6.0 | 4.0 | 60.0 | 111.0 | 20.0 | 3 | 2 | 20 | 1.5 | 1 | 0.98 | |
| 148.13 | 3.05 | 38.00 | 3.14 | 102.95 | 1.68 | 55.08 | 28 | 2 | W3 | R | 3.0 | 6.0 | 18.0 | 57.0 | 147.0 | 18.0 | 3 | 2 | 20 | 3 | 2 | 0.38 | |
| 150.88 | 2.75 | 39.00 | 2.84 | 103.27 | 1.17 | 42.55 | 18 | 1 | W3 | R | 3.0 | 6.0 | 2.0 | 54.0 | 126.0 | 20.0 | 3 | 4 | 20 | 3 | 2 | 0.23 | |
| 152.70 | 1.82 | 40.00 | 1.96 | 107.69 | 0.39 | 21.43 | 18 | 2 | W3 | R | 3.0 | 3.0 | 4.0 | 65.0 | - | 18.0 | 3 | 4 | 20 | 3 | 2 | 0.18 | |

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Tuesday, October 4, 2005

Recorded by: Matthew R. Kochtubajda

Project Number: _____ 05SWC-040

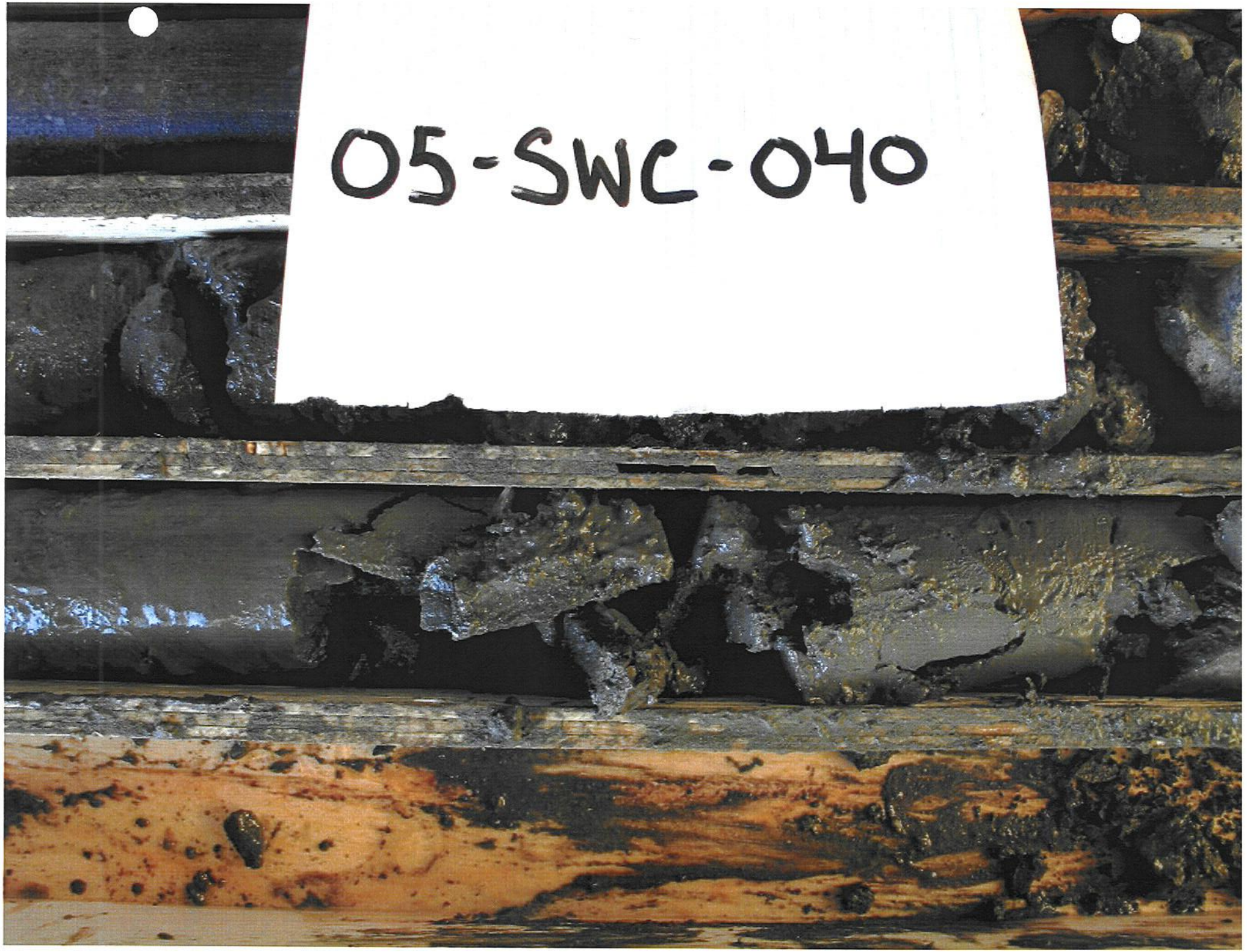
| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 72 | D | - | - | NQ | 4640 | broke along a weathered fracture |
| 72 | A | - | 31 | NQ | 6000 | |
| 73 | D | - | - | NQ | 5440 | broke along a weathered fracture |
| 73 | A | - | 32.5 | NQ | 6420 | broke along a weathered fracture |
| 79 | D | - | - | NQ | 10120 | oke along a weathered fracture, mostly c |
| 79 | A | - | 30.5 | NQ | 9040 | |
| 85 | D | - | - | NQ | 2660 | poor test; along a weathered fracture |
| 85 | A | - | 30 | NQ | 12200 | |
| 90 | D | - | - | NQ | 5840 | broke along a weathered fracture |
| 90 | A | - | 32 | NQ | 8280 | poor test |
| 96 | D | II | - | NQ | 3760 | broke with foliation |
| 96 | A | - | 31 | NQ | 3040 | |
| 101 | D | L | - | NQ | 7440 | lots of biotite |
| 101 | A | - | 31 | NQ | 5160 | broke along a weathered fracture |
| 112 | D | L | - | NQ | 13360 | |
| 112 | A | - | 31 | NQ | 7340 | broke along a weathered fracture |
| 115 | D | - | - | NQ | 16260 | |
| 115 | A | - | 31 | NQ | 6200 | |
| 120 | D | - | - | NQ | 9880 | |
| 120 | A | - | 31 | NQ | 13180 | porphoryblastic granidorite |
| 126 | D | - | - | NQ | 7200 | broke along a weathered fracture |
| 126 | A | - | 31 | NQ | 11880 | |
| 131 | D | - | - | NQ | 5160 | broke along a weathered fracture |
| 131 | A | - | 31 | NQ | 13420 | |
| 136 | D | - | - | NQ | 10360 | broke along a weathered fracture |
| 136 | A | - | 31 | NQ | 7940 | |
| 141 | D | - | - | NQ | 4120 | |
| 141 | A | - | 31.5 | NQ | 7060 | |
| 149 | D | - | - | NQ | 9320 | |
| 149 | A | - | 31 | NQ | 6540 | broke along a weathered fracture |
| 154 | D | - | - | NQ | 18800 | |
| 154 | A | - | 31 | NQ | 14020 | |
| 156 | D | - | - | NQ | 4740 | broke along a weathered fracture |
| 156 | A | - | 32 | NQ | 11780 | |
| 162 | D | - | - | NQ | 9040 | broke along a weathered fracture |
| 162 | A | - | 30 | NQ | 8240 | |

TYPE:

D - Diametral  L - Perpendicular

A - Axial  // - Parallel

05-SWC-040
37
57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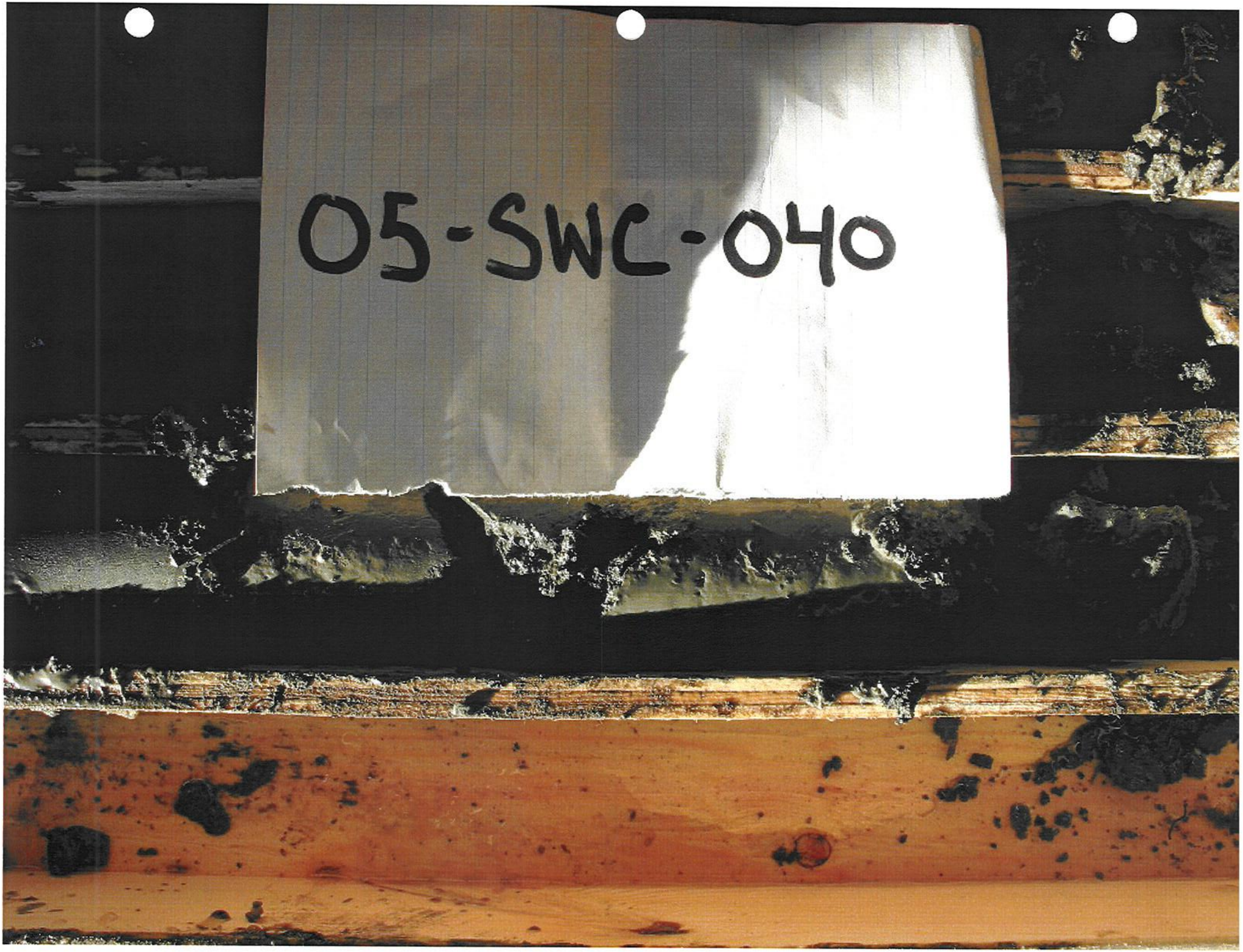
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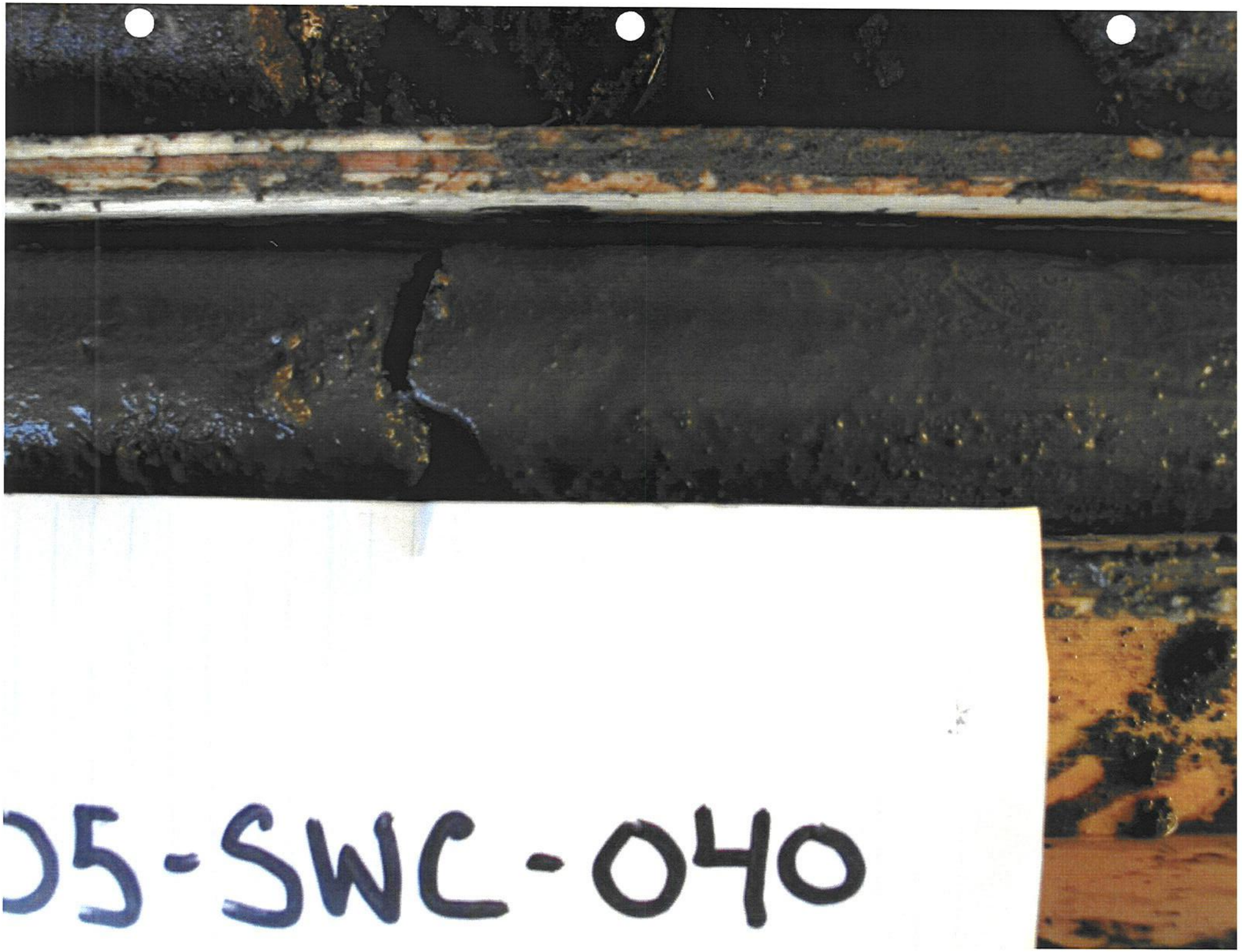
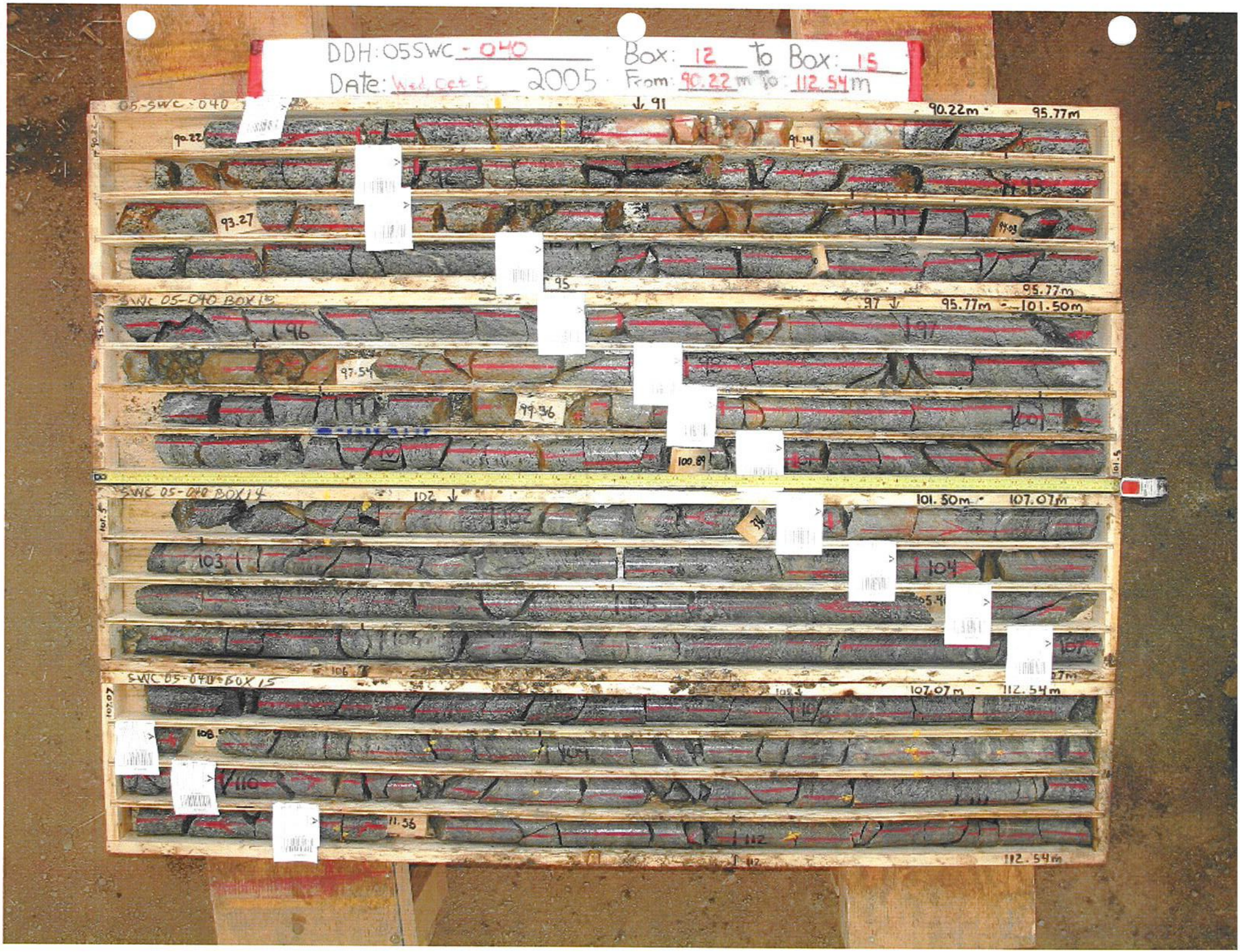
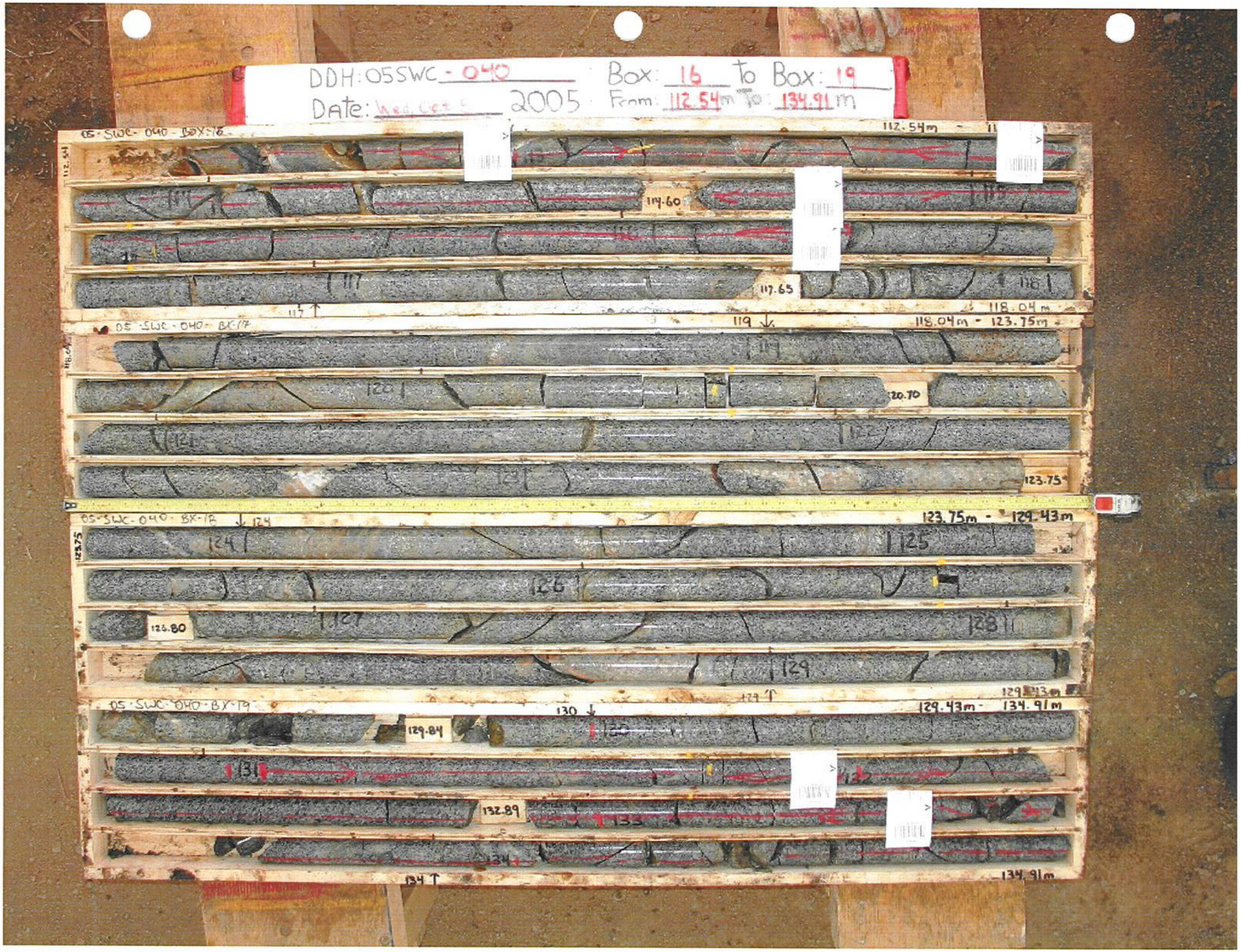


05-SWC-040

DDH: 05SWC - 040 Box: 8 to Box: 11
Date: 2005 From: 59.90 m to: 90.22 m
59.90m - 73.37m
73.37m - 79.13m
79.13m - 84.36m
84.36m - 90.22m
61.26
61.31
67.34
69.80
70.91
73.46
77.42
80.77
82.36
84.12
85
90.22m


DDH: 05SWC - 040 Box: 12 to Box: 15
Date: Wed Oct 5 2005 From: 90.22 m To: 112.54 m
05-SWC-040
90.22m - 95.77m
SWC 05-040 BOX 13
95.77m - 101.50m
SWC 05-040 BOX 14
101.50m - 107.07m
SWC 05-040 BOX 15
107.07m - 112.54m
112.54m


DDH: 05SWC - 040
Box: 16 to Box: 19
Date: 2005
From: 112.54m To: 134.91m
05-SWC-040-BOX-16
112.54m
114.60
117.65
118.04m
05-SWC-040-BX-17
118.04m - 123.75m
120.70
123.75
05-SWC-040-BX-18
123.75m - 129.43m
126.80
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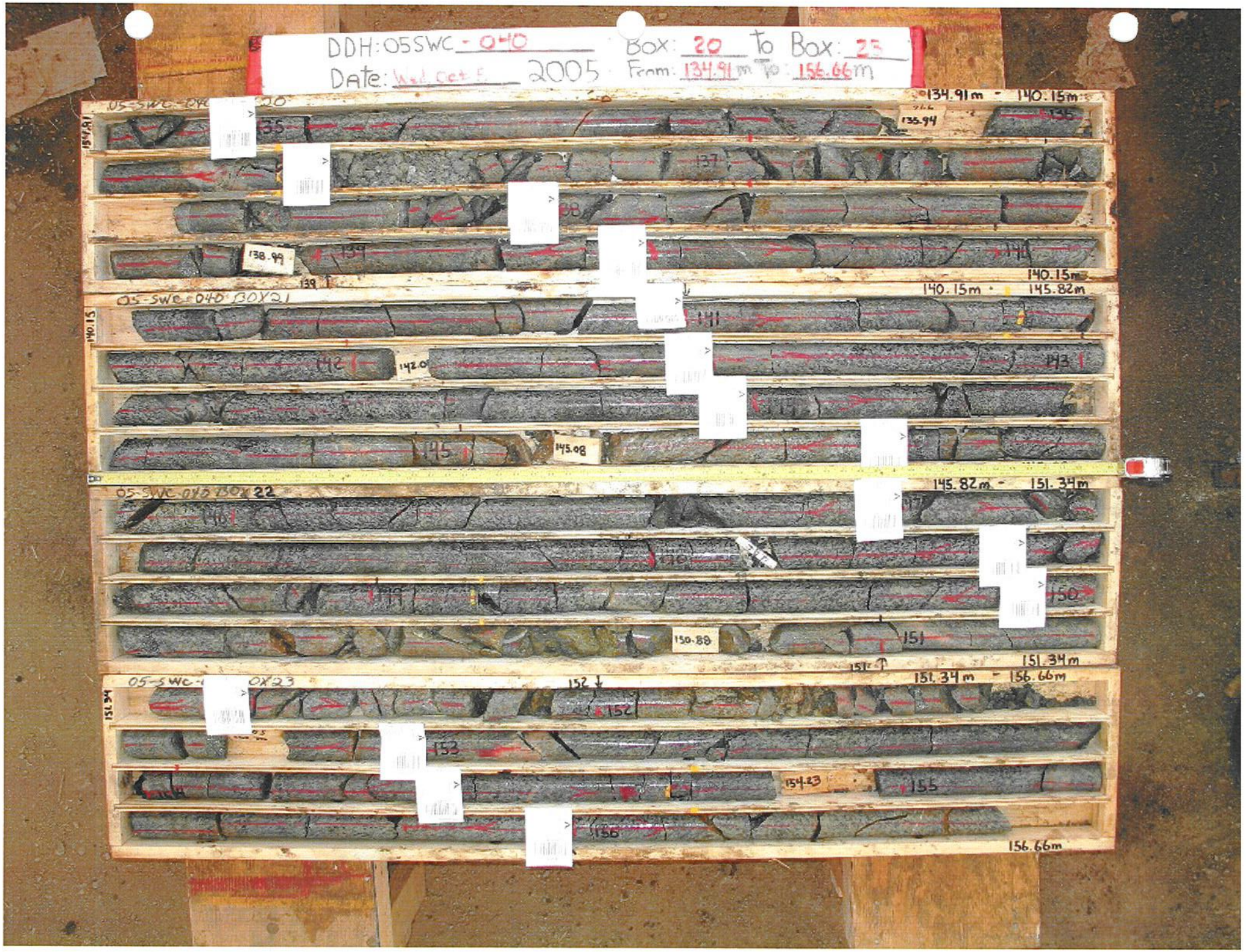
129.43m - 134.91m
129.84
132.89
134.91m


DDH: 05SWC - 040 Box: 20 to Box: 23
Date: Wed Oct 5 2005 From: 134.91m To: 156.66m
134.91m - 140.15m
135.94
138.99
140.15m - 145.82m
145.08
145.82m - 151.34m
150.89
151.34m - 156.66m
154.23
156.66m

DDH: 05SWC - 040 Box: 24 to Box: 25
Date: Wed, Oct 5 2005 From: 156.66m To: 163.37m
156.66m
157
157.28
158
159
160
161
162
162.19m
162.19m - 163.37m
163
163.37
E.O.H.
163.37m E.O.H.

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 041

Date Hole Started:
Date Hole Finished:
Total Hole Depth (m):
Depth of Casing (m): 15.24
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 15.24 | | | | | | | | | | | | | | | | | | | | | | | overburden - no measurments recorded |
| 15.54 | 0.30 | 1.00 | 0.24 | 80.00 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.53 | broken core |
| 17.07 | 1.53 | 2.00 | 0.83 | 54.25 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0 | broken core |
| 18.59 | 1.52 | 3.00 | 0.83 | 54.61 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.12 | broken core |
| 20.12 | 1.53 | 4.00 | 1.24 | 81.05 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0 | broken core |
| 21.64 | 1.52 | 5.00 | 0.94 | 61.84 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.07 | broken core |
| 23.16 | 1.52 | 6.00 | 0.29 | 19.08 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0 | broken core |
| 24.69 | 1.53 | 7.00 | 1.15 | 75.16 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.8 | broken core |
| 26.21 | 1.52 | 8.00 | 0.90 | 59.21 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 14 | 3 | 4 | 0.18 | broken core |
| 27.74 | 1.53 | 9.00 | 1.40 | 91.50 | 0.12 | 7.84 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 14 | 3 | 4 | 0.25 | broken core |
| 29.26 | 1.52 | 10.00 | 1.09 | 71.71 | 0.39 | 25.66 | 9 | 0 | W4 | R | 3.0 | 0.5 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.29 | no visible joint sets; joints are too weathered |
| 30.78 | 1.52 | 11.00 | 0.84 | 55.26 | 0.17 | 11.18 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.6 | broken core |
| 32.31 | 1.53 | 12.00 | 0.68 | 44.44 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.03 | broken core |
| 33.83 | 1.52 | 13.00 | 0.59 | 38.82 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.14 | broken core |
| 35.36 | 1.53 | 14.00 | 0.65 | 42.48 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 1.5 | 4 | 0.25 | broken core |
| 36.68 | 1.32 | 15.00 | 0.77 | 58.33 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0 | broken core |
| 38.40 | 1.72 | 16.00 | 0.26 | 15.12 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.25 | broken core |
| 39.93 | 1.53 | 17.00 | 0.37 | 24.18 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 14 | 3 | 4 | 1.55 | broken core |
| 41.45 | 1.52 | 18.00 | 0.33 | 21.71 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0 | broken core |
| 42.98 | 1.53 | 19.00 | 1.15 | 75.16 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.45 | broken core |
| 44.50 | 1.52 | 20.00 | 1.62 | 106.58 | 0.13 | 8.55 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.05 | broken core |
| 45.42 | 0.92 | 21.00 | 0.85 | 92.39 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.47 | broken core |
| 46.33 | 0.91 | 22.00 | 0.85 | 93.41 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.05 | broken core |
| 47.55 | 1.22 | 23.00 | 1.21 | 99.18 | 0.24 | 19.67 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 2 | 0 | broken core; malachite on joints |
| 49.07 | 1.52 | 24.00 | 1.39 | 91.45 | 0.14 | 9.21 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.67 | broken core; malachite on joints |
| 50.60 | 1.53 | 25.00 | 1.49 | 97.39 | 0.34 | 22.22 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0.53 | broken core; malachite on joints |
| 51.21 | 0.61 | 26.00 | 0.63 | 103.28 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 14 | 3 | 4 | 0.18 | broken core |
| 52.12 | 0.91 | 27.00 | 0.79 | 86.81 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0 | broken core |
| 53.04 | 0.92 | 28.00 | 0.80 | 86.96 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0 | broken core |
| 54.56 | 1.52 | 29.00 | 1.63 | 107.24 | 0.37 | 24.34 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0 | broken core |
| 56.08 | 1.52 | 30.00 | 1.45 | 95.39 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 1.04 | broken core |
| 56.69 | 0.61 | 31.00 | 0.42 | 68.85 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.71 | broken core (weathered biotite) |
| 57.61 | 0.92 | 32.00 | 0.85 | 92.39 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 14 | 3 | 4 | 0 | broken core |
| 58.83 | 1.22 | 33.00 | 1.33 | 109.02 | 0.11 | 9.02 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.14 | broken core |
| 60.05 | 1.22 | 34.00 | 0.66 | 54.10 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 2 | 14 | 3 | 2 | 0 | broken core; malachite on joints |
| 61.26 | 1.21 | 35.00 | 1.32 | 109.09 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0 | broken core |
| 61.57 | 0.31 | 36.00 | 0.28 | 90.32 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 14 | 3 | 4 | 0.64 | broken core |
| 62.18 | 0.61 | 37.00 | 0.87 | 142.62 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.23 | broken core |
| 62.79 | 0.61 | 38.00 | 0.62 | 101.64 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0 | broken core |
| 63.70 | 0.91 | 39.00 | 1.30 | 142.86 | 0.14 | 15.38 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.09 | broken core |
| 64.31 | 0.61 | 40.00 | 0.68 | 111.48 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 14.0 | 3 | 4 | 14 | 3 | 4 | 0.36 | broken core, specks of malachite |

# POINT LOAD TEST RECORD



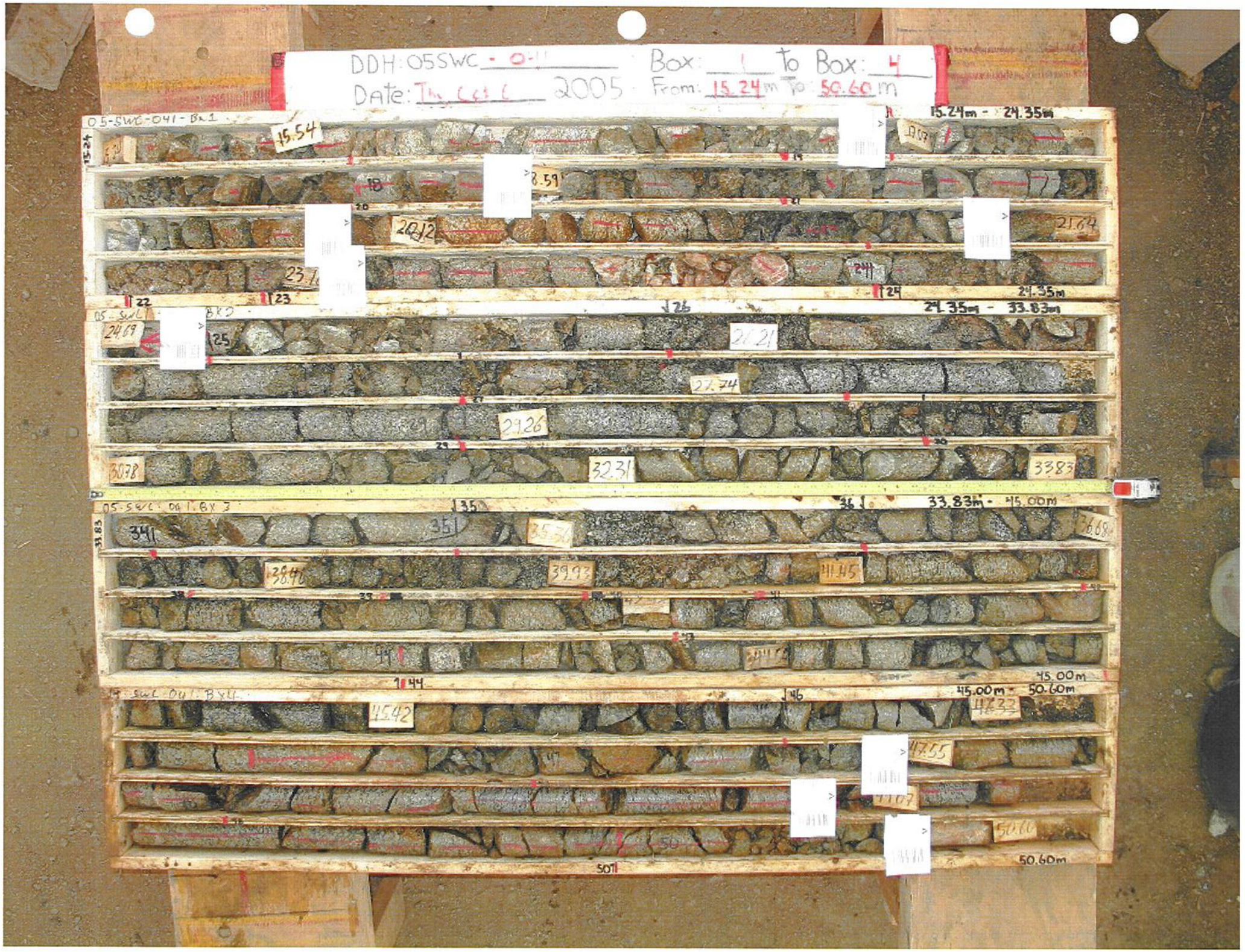
Project Name: _____ Minto

Date: _____ Wednesday, October 5, 2005

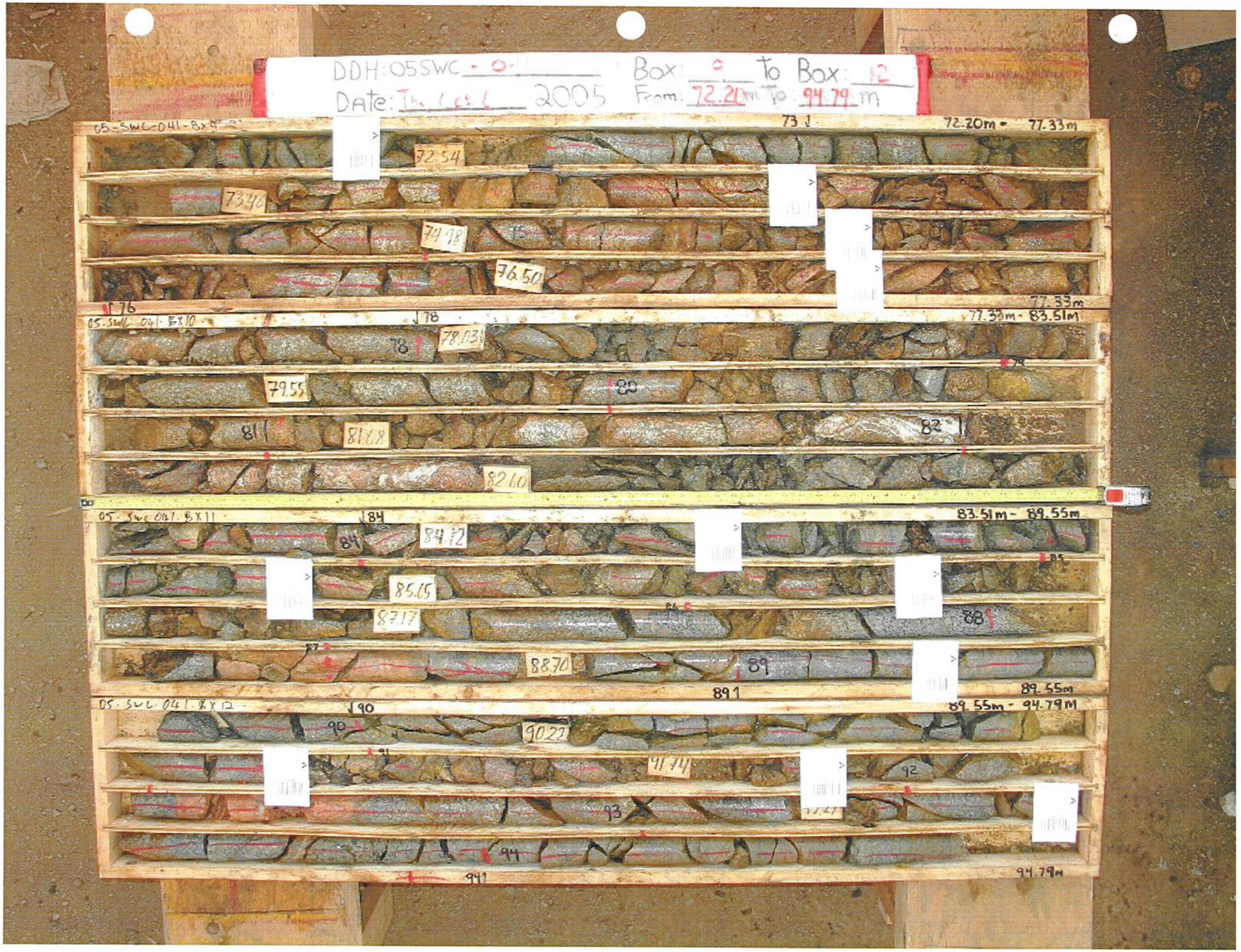
Recorded by: Matthew R. Kochtubajda

Project Number: _____ 05SWC-041

| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 15.24 | - | - | - | - | - | broken core- no test |
| 94.79 | - | - | - | - | - | broken core- no test |
| 96 | D | - | - | NQ | 10320 | broke along a fracture |
| 96 | A | - | 30 | NQ | 12520 | |
| 99 | D | - | - | NQ | 13140 | poor test |
| 99 | A | - | 30 | NQ | 11220 | |
| 107 | D | - | - | NQ | 15020 | |
| 107 | A | - | 30 | NQ | 6880 | broke along a weathered fracture |
| 111 | D | - | - | NQ | OFL | |
| 111 | A | - | 31.5 | NQ | 11060 | |
| 116 | D | - | - | NQ | 13300 | |
| 116 | A | - | 30 | NQ | 5740 | broke along a weathered fracture |
| 122 | D | - | - | NQ | 14380 | |
| 122 | A | - | 31 | NQ | 14120 | |
| 128 | D | - | - | NQ | 16280 | broke along a weathered fracture |
| 128 | A | - | 31 | NQ | 6840 | broke along a weathered fracture |
| 134 | D | - | - | NQ | 10080 | broke along a weathered fracture |
| 134 | A | - | 30 | NQ | 9820 | |
| 138 | D | - | - | NQ | 15580 | broke along a weathered fracture |
| 138 | A | - | 29 | NQ | 7740 | |
| 144 | D | - | - | NQ | OFL | sample would not break |
| 144 | A | - | 32.5 | NQ | 12200 | |
| 151 | D | - | - | NQ | 15920 | |
| 151 | A | - | 30 | NQ | 12600 | broke along a fracture |


DDH: 05SWC - 041
Box: 1 to Box: 4
Date: Thu Oct 6 2005
From: 15.24m To: 50.60m
05-SWC-041-Bx1
15.24m - 24.35m
24.35m - 33.83m
33.83m - 45.00m
45.00m - 50.60m
50.60m

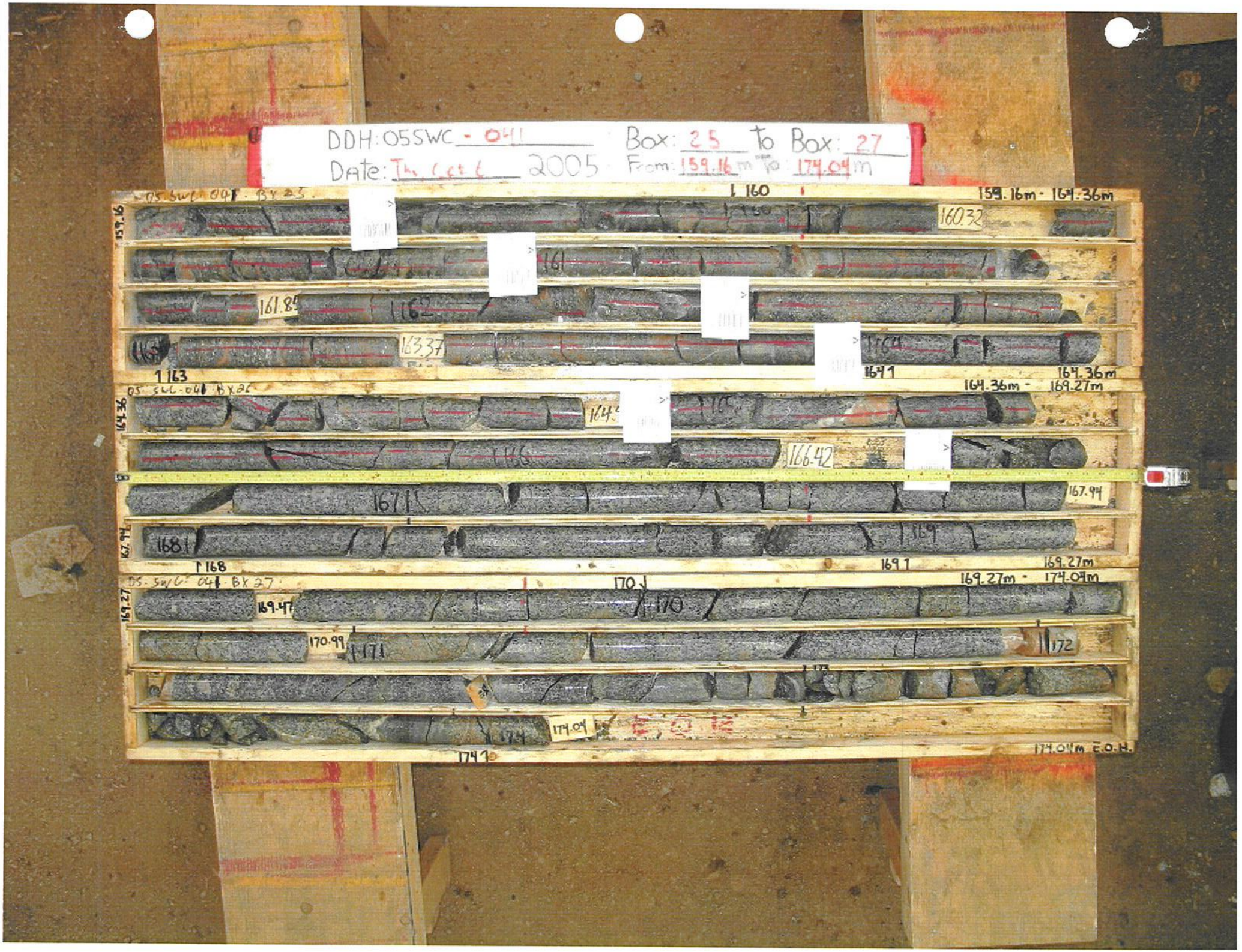
DDH: 05SWC - 01
Box: 5 to Box: 8
Date: [illegible] 2005
From: 50.60m To: 72.20m
50.60
56.52m
56.52m - 62.18m
62.18m - 67.32m
67.32m - 72.20m
72.20m


DDH: 05SWC-041 Box: 0 to Box: 12
Date: [illegible] 2005 From: 72.20m To: 94.79m
05-SWC-041-BX9
72.54
73.40
74.98
76.50
72.20m - 77.33m
05-SWC-041-BX10
78.03
79.55
81.08
82.60
77.33m - 83.51m
05-SWC-041-BX11
84.72
85.15
87.17
88.70
83.51m - 89.55m
05-SWC-041-BX12
90.22
91.74
89.55m - 94.79m
94.79m

DDH: 05SWC - 041
Box: 13 to Box: 16
Date: [illegible] 2005
From: 94.79m To: 115.87m
94.79m - 99.42m
99.42m - 104.77m
104.77m - 110.46m
110.46m - 115.87m
115.87m

DDH: 05SWC - 041
Box: 17 to Box: 20
Date: 2005
From 115.87m To 138.10m
05-SWC-041-Bx17
115.87m - 121.60m
119-18
121.60m
122
121.60
6.83m
123-44
124-97
126-49
05-SWC-041-Bx18
126.83m - 132.37m
128
129
130
132
132.37m
05-SWC-041-Bx20
132.37m - 138.10m
133
132.59
134-11
135.64
135.94
137.46
137
138.10m

DDH: 05SWC - 041 Box: 21 to Box: 24
Date: July 2005 From: 138.10m To: 159.16m
05-SWC-041-BX21
138.10m - 143.56m
138.99
139
140
142
142.04
143
143.56
143.56m
05-SWC-041 BX22
143.56m - 148.84m
144
145
145.08
146
146.81
147
148
148.13
05-SWC-041 BX23
148.84m - 153.99m
149
149.66
150
151
151.18
152
152.70
153
153.99m
05-SWC-041 BX24
153.99m - 159.16m
154.23
155
155.75
156
157.28
158
158.80
159.16m


DDH: 05SWC - 041 Box: 25 to Box: 27
Date: [illegible] 2005 From: 159.16 m To: 174.04 m
159.16m - 164.36m
164.36m - 169.27m
169.27m - 174.04m
160.32
161.85
163.37
166.42
167.94
169.47
170.99
174.04
174.04m E.O.H.

# APPENDIX

## APPENDIX B SURFACE DISCONTINUITY DATA

**Minto Discontinutiy Orientations from Outcrops**

NAD 83 datum

| | | | | Discontinuity | | |
|---|---|---|---|---|---|---|
| **Site no.** | **Location** | **Easting** | **Northing** | **Strike** | **Dip** | **Pegmatites** |
| 1 | behind camp | 385398 | 6945264 | 115 | 90 | 295/78 |
| 1 | behind camp | 385398 | 6945264 | 342 | 83 | 295/42 |
| 1 | behind camp | 385398 | 6945264 | 230 | 85 | 157/73 |
| 1 | behind camp | 385398 | 6945264 | 30 | 73 | 280/65 |
| 1 | behind camp | 385398 | 6945264 | 135 | 85 | 280/55 |
| 1 | behind camp | 385398 | 6945264 | 322 | 90 | 180/60 |
| 1 | behind camp | 385398 | 6945264 | 210 | 80 | 270/55 |
| 1 | behind camp | 385398 | 6945264 | 55 | 55 | |
| 1 | behind camp | 385398 | 6945264 | 142 | 85 | |
| 1 | behind camp | 385398 | 6945264 | 215 | 65 | |
| 1 | behind camp | 385398 | 6945264 | 140 | 90 | |
| 1 | behind camp | 385398 | 6945264 | 190 | 20 | |
| 1 | behind camp | 385398 | 6945264 | 125 | 72 | |
| 1 | behind camp | 385398 | 6945264 | 55 | 62 | |
| 1 | behind camp | 385398 | 6945264 | 105 | 85 | |
| 1 | behind camp | 385398 | 6945264 | 318 | 80 | |
| 1 | behind camp | 385398 | 6945264 | 318 | 70 | |
| 1 | behind camp | 385398 | 6945264 | 53 | 72 | |
| 1 | behind camp | 385398 | 6945264 | 290 | 85 | |
| 1 | behind camp | 385398 | 6945264 | 108 | 75 | |
| 1 | behind camp | 385398 | 6945264 | 210 | 65 | |
| range | | | | **30 to 342** | **20 to 90** | |
| average | | | | **177** | **75** | |
| 2 | behind mill | 385129 | 6945171 | 110 | 85 | 295/25 |
| 2 | behind mill | 385129 | 6945171 | 320 | 42 | 285/50 |
| 2 | behind mill | 385129 | 6945171 | 285 | 64 | |
| 2 | behind mill | 385129 | 6945171 | 115 | 55 | |
| 2 | behind mill | 385129 | 6945171 | 58 | 65 | |
| 2 | behind mill | 385129 | 6945171 | 330 | 90 | |
| 2 | behind mill | 385129 | 6945171 | 155 | 70 | |
| 2 | behind mill | 385129 | 6945171 | 340 | 90 | |
| 2 | behind mill | 385129 | 6945171 | 300 | 55 | |
| 2 | behind mill | 385129 | 6945171 | 185 | 70 | |
| 2 | behind mill | 385129 | 6945171 | 277 | 47 | |
| 2 | behind mill | 385129 | 6945171 | 170 | 73 | |
| 2 | behind mill | 385129 | 6945171 | 65 | 75 | |
| 2 | behind mill | 385129 | 6945171 | 190 | 40 | |
| 2 | behind mill | 385129 | 6945171 | 135 | 85 | |
| 2 | behind mill | 385129 | 6945171 | 135 | 45 | |
| 2 | behind mill | 385129 | 6945171 | 115 | 85 | |
| 2 | behind mill | 385129 | 6945171 | 185 | 55 | |
| 2 | behind mill | 385129 | 6945171 | 335 | 42 | |
| 2 | behind mill | 385129 | 6945171 | 275 | 45 | |
| 2 | behind mill | 385129 | 6945171 | 300 | 45 | |
| range | | | | 58 to 340 | 40 to 90 | |
| average | | | | **209** | **63** | |
| 3 | behind 05-48 | 384596 | 6945423 | 53 | 73 | 285/37 |
| 3 | behind 05-48 | 384596 | 6945423 | 180 | 60 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 3 | behind 05-48 | 384596 | 6945423 | 177 | 85 | |
| 3 | behind 05-48 | 384596 | 6945423 | 132 | 78 | |
| 3 | behind 05-48 | 384596 | 6945423 | 37 | 78 | |
| 3 | behind 05-48 | 384596 | 6945423 | 5 | 90 | |
| 3 | behind 05-48 | 384596 | 6945423 | 235 | 75 | |
| 3 | behind 05-48 | 384596 | 6945423 | 345 | 85 | |
| 3 | behind 05-48 | 384596 | 6945423 | 222 | 35 | |
| 3 | behind 05-48 | 384596 | 6945423 | 10 | 27 | |
| 3 | behind 05-48 | 384596 | 6945423 | 348 | 90 | |
| 3 | behind 05-48 | 384596 | 6945423 | 230 | 65 | |
| 3 | behind 05-48 | 384596 | 6945423 | 350 | 85 | |
| 3 | behind 05-48 | 384596 | 6945423 | 30 | 42 | |
| 3 | behind 05-48 | 384596 | 6945423 | 340 | 85 | |
| 3 | behind 05-48 | 384596 | 6945423 | 215 | 42 | |
| 3 | behind 05-48 | 384596 | 6945423 | 165 | 85 | |
| 3 | behind 05-48 | 384596 | 6945423 | 317 | 45 | |
| range | | | | 5 to 350 | 27 to 90 | |
| average | | | | **188** | **68** | |
| 4 | clearing/burrow pit | 384811 | 6945160 | 297 | 45 | |
| 4 | clearing/burrow pit | 384811 | 6945160 | 25 | 22 | |
| 4 | clearing/burrow pit | 384811 | 6945160 | 22 | 84 | |
| 4 | clearing/burrow pit | 384811 | 6945160 | 248 | 65 | |
| 4 | clearing/burrow pit | 384811 | 6945160 | 260 | 67 | |
| 4 | clearing/burrow pit | 384811 | 6945160 | 125 | 60 | |
| 4 | clearing/burrow pit | 384811 | 6945160 | 215 | 73 | |
| 4 | clearing/burrow pit | 384811 | 6945160 | 295 | 60 | |
| 4 | clearing/burrow pit | 384811 | 6945160 | 345 | 80 | |
| 4 | clearing/burrow pit | 384811 | 6945160 | 315 | 85 | |
| range | | | | **22 to 345** | **22 to 85** | |
| average | | | | **215** | **64** | |
| 5 | o/c by creek | 384687 | 6945018 | 42 | 78 | |
| 5 | o/c by creek | 384687 | 6945018 | 148 | 72 | |
| 5 | o/c by creek | 384687 | 6945018 | 210 | 37 | |
| 5 | o/c by creek | 384687 | 6945018 | 320 | 46 | |
| 5 | o/c by creek | 384687 | 6945018 | 7 | 80 | |
| 5 | o/c by creek | 384687 | 6945018 | 44 | 83 | |
| 5 | o/c by creek | 384687 | 6945018 | 50 | 26 | |
| 5 | o/c by creek | 384687 | 6945018 | 158 | 75 | |
| 5 | o/c by creek | 384687 | 6945018 | 222 | 85 | |
| 5 | o/c by creek | 384687 | 6945018 | 155 | 75 | |
| 5 | o/c by creek | 384687 | 6945018 | 37 | 75 | |
| 5 | o/c by creek | 384687 | 6945018 | 335 | 80 | |
| 5 | o/c by creek | 384687 | 6945018 | 42 | 75 | |
| 5 | o/c by creek | 384687 | 6945018 | 352 | 63 | |
| 5 | o/c by creek | 384687 | 6945018 | 342 | 83 | |
| 5 | o/c by creek | 384687 | 6945018 | 42 | 75 | |
| range | | | | **7 to 352** | **37 to 85** | |
| average | | | | **187** | **76** | |
| 6 | up from creek | 384636 | 6945023 | 222 | 85 | |
| 6 | up from creek | 384636 | 6945023 | 223 | 88 | |
| 6 | up from creek | 384636 | 6945023 | 230 | 65 | |
| 6 | up from creek | 384636 | 6945023 | 308 | 85 | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 6 | up from creek | 384636 | 6945023 | 215 | 85 | |
| 6 | up from creek | 384636 | 6945023 | 235 | 75 | |
| 6 | up from creek | 384636 | 6945023 | 27 | 75 | |
| 6 | up from creek | 384636 | 6945023 | 228 | 77 | |
| range<br>average | | | | **27 to 308**<br>**211** | **77 to 88**<br>**79** | |

# APPENDIX

## APPENDIX C ROCK QUALITY CRITERIA

# Rock Mass Characterization

Table 1 – Degree of Alteration and Weathering

| Degree of Weathering | Description | Rating |
|---|---|---|
| Residual Soil | Original fabric destroyed | W6 |
| Completely weathered / altered | Original fabric and relict structures remain, but rock is decomposed and friable | W5 |
| Highly weathered / altered | Rock is discoloured and strength is significantly reduced by weathering | W4 |
| Moderately weathered / altered | Rock is discoloured, but rock strength only slightly affected, discontinuous weathering | W3 |
| Slightly weathered / altered | Rock strength unchanged, weathering on joints only | W2 |
| Fresh and un-weathered | Alteration may result in an improvement in rock competency (e.g. silification) | W1 |

Table 2 – Field Hardness Classification (CFEM, 1992; ISRM, 1981)

| Description | SPT N | Field Identification | UCS | Point Load Index (MPa) | Grade |
|---|---|---|---|---|---|
| Extremely Strong | - | Specimen can only be chipped with geological hammer | > 250 | > 10 | R6 |
| Very Strong | - | Specimen requires many blows of geological hammer to fracture | 100-250 | 4-10 | R5 |
| Strong | - | Specimen requires more than one blow of geological hammer to fracture | 50-100 | 2-4 | R4 |
| Medium Strong | - | Cannot be scraped or peeled with pocket knife; can be fractured with single firm blow of geologic hammer | 25-50 | 1-2 | R3 |
| Weak | - | Can be peeled by a pocket knife with difficulty; shallow indentation made by firm blow with geological hammer | 5-25 | - | R2 |
| Very Weak | - | Crumbles under firm blow with point of geological hammer; can be peeled by a pocket knife | 1-5 | - | R1 |
| Extremely Weak | - | Indented by thumbnail | < 0.2-1 | - | R0 |
| Hard | > 30 | Indented with difficulty by thumbnail | > 200 | - | S6 |
| Very Stiff | 15-30 | Readily indented by thumbnail | 100-200 | - | S5 |
| Stiff | 8-15 | Readily indented by thumb but penetrated only with great effort | 50-100 | - | S4 |
| Firm | 4-8 | With moderate effort, penetrates several centimetres by thumb | 25-50 | - | S3 |
| Soft | 2-4 | Easily penetrated several centimetres by thumb | 12-25 | - | S2 |
| Very Soft | < 2 | Easily penetrated several centimetres by fist | < 12 | - | S1 |

Note: UCS values in MPa for rock (R6 to R0) and kPa for soil (S6 to S1).

Table 3 – Joint Set Number, $J_n$ (after Barton et al., 1974)

| Description | $J_n$ Rating |
|---|---|
| Massive, no or few joints | 0.5 to 1.0 |
| One joint set | 2 |
| One joint set, plus random | 3 |
| Two joint sets | 4 |
| Two joint sets plus random | 6 |
| Three joint sets | 9 |
| Three joint sets plus random | 12 |
| Four or more joint sets, random, heavily jointed, "sugar coated" | 15 |
| Crushed rock, earth-like | 20 |

Table 4 – Joint Condition for RMR (Bieniawski, 1976)

| Condition of Discontinuities | Rating |
|---|---|
| Very rough surfaces; not continuous; no separation; unweathered wall rock | 25 |
| Slightly rough surfaces; separation < 1 mm; slightly weathered walls | 20 |
| Slightly rough surfaces; separation < 1 mm; highly weathered walls | 12 |
| Slickensided surfaces or gouge < 5 mm thick or separation 1 to 5 mm; continuous | 6 |
| Soft gouge > 5 mm or separation > 5 mm; continuous | 0 |

Table 5 – Joint Roughness Number, $J_r$ (after Barton et al., 1974)

| Notes | Description | $J_r$ Rating |
|---|---|---|
| • Add 1.0 if the mean spacing of the relevant joint set is greater than 3 m<br>• $J_r$ = 0.5 can be used for planar, slickensided joints having lineations, provided that the lineations are oriented for minimum strength | Discontinuous joints | 4 |
| | Rough and irregular, undulating | 3 |
| | Smooth undulating | 2 |
| | Slickensided undulating | 1.5 |
| | Rough or irregular, planar | 1.5 |
| | Smooth, planar | 1.0 |
| | Slickensided, planar | 0.5 |
| | Zones containing clay minerals thick enough to prevent wall contact | 1.0 |
| | Sandy, gravely, or crushed zone thick enough to prevent rock wall contact | 1.0 |

Table 6 – Joint Alteration Number, $J_a$ (after Barton et al., 1974)

| Description | $\varphi_r$ (Note) | $J_a$ Rating |
|---|---|---|
| Tightly healed, hard, non-softening, impermeable filling | - | 0.75 |
| Unaltered joint walls, surface staining only | 25-35° | 1 |
| Slightly altered joint walls, non-softening mineral coatings, sandy particles, clay-free disintegrated rock | 25-30° | 2 |
| Silty or sandy clay coatings, small clay fraction (non-softening) | 20-25° | 3 |
| Softening or low-friction clay mineral coatings, i.e. kaolinite, mica, chlorite, talc, gypsum, graphite and small quantities of swelling clay (discontinuous coatings, 1-2 mm or less in thickness) | 8-16° | 4 |
| Sandy particles, clay-free, disintegrated rock | 25-30° | 4 |
| Strongly over-consolidated, non-softening clay mineral fillings (continuous < 5 mm thick) | 16-24° | 6 |
| Medium or low over-consolidated, softening clay mineral fillings (continuous < 5 mm thick) | 12-16° | 8 |
| Swelling clay fillings (continuous < 5 mm thick). Values of $J_a$ depend on percent of swelling clay-sized particles, and access to water | 6-12° | 8-12 |
| Zones or bands of disintegrated or crushed rock and clay | 6-24° | 6 |
| | | 8 |
| | | 8-12 |
| Zones or bands of silty or sandy clay, small clay fraction, non-softening | - | 5 |
| Thick continuous zones or bands of clay | - | 10-13 |
| | | 6-24 |

Note: Values of $\varphi_r$, the residual friction angle, are intended as an approximate guide to the mineralogical properties of the alteration products, if present.

# APPENDIX

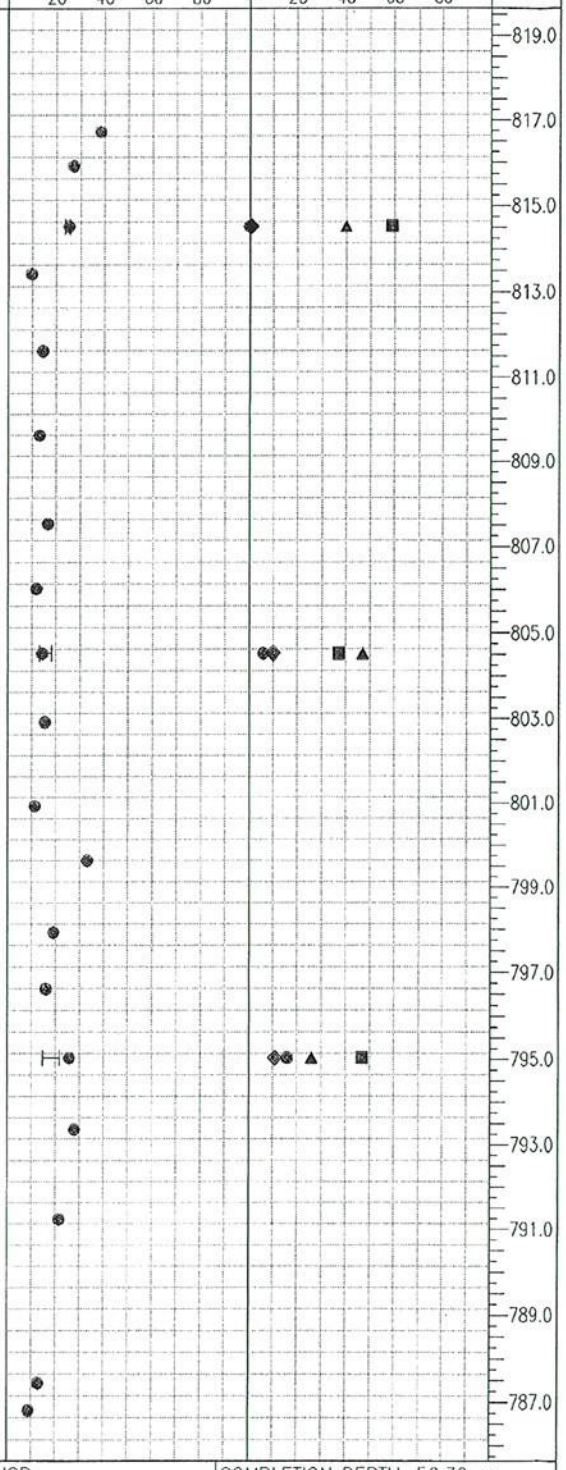
## APPENDIX D EBA COREHOLE LOGS AND PHOTOS

| | | |
|---|---|---|
| Minto Mine Development 2005 | Client: Sherwood Mining Corporation | BOREHOLE NO: 1200173-042 |
| Minto Copper Mine | DRILL: DD HQ | PROJECT NO: 1200173 |
| NW of Minto, YT | UTM ZONE: 8 N6944772.3 E384660.54 | ELEVATION: 819.64 m |

SAMPLE TYPE: GRAB SAMPLE | NO RECOVERY | HQ | NQ | CRREL BARREL

BACKFILL TYPE: BENTONITE | PEA GRAVEL | SLOUGH | GROUT | DRILL CUTTINGS | SAND

| Depth(m) | SAMPLE TYPE | SAMPLE NO | SOIL DESCRIPTION | GROUND ICE DESCRIPTION |
|---|---|---|---|---|
| 0.0 | | | ORGANIC ROOT MAT | |
| 1.0 | | | SILT – some sand, fine grained, dark brown | |
| 2.0 | | | | |
| 3.0 | | | – becomes sand, silty around 3.0 m | |
| 4.0 | | | – sand is fine to medium grained | Vx, trace 5–10% |
| 5.0 | | | – trace of fine to medium grained gravel below 3.7 m | |
| 6.0 | | | – silt, trace sand from 4.8 m to 5.2 m | |
| 7.0 | | | – SAND is well graded below 5.2 m | |
| 8.0 | | | – becomes gravelly, fine to medium grained around 5.2 m | |
| 9.0 | | | – colour changes to medium grey | |
| 10.0 | | | – some silt to silty | |
| 11.0 | | | – trace of fine angular gravel from 6.0 to 6.4 m | Vr, Vs 10–15% 75–100 mm apart 2–5 mm thick |
| 12.0 | | | – coarser gravels encountered from 8.5 m to 13.7 m | |
| 13.0 | | | – sand becomes coarser and angular around 10.0 m | |
| 14.0 | | | – cobble present from 14.3 m – 15.2 m | |
| 15.0 | | | | Vs, 10–15% |
| 16.0 | | | | |
| 17.0 | | | | |
| 18.0 | | | | |
| 19.0 | | | | |
| 20.0 | | | 13.7 m depth through to at least 24.0 m | Ice lens 100 mm thick, spaced 100–150 mm |
| 21.0 | | | – silt content increases, some sand to sandy, fine grained around 20.1 m | |
| 22.0 | | | | |
| 23.0 | | | | |
| 24.0 | | | | |
| 25.0 | | | – gravel from 24.7 – 26.2 m has caused drilling to wash majority of other solids and possible ice out of the core | |
| 26.0 | | | | Vs, trace <5% |
| 27.0 | | | | Vs, 10–15% 50–100 mm apart 2–5 mm thick |
| 28.0 | | | – poor recovery in this section but may be zone containing mainly gravels | |
| 29.0 | | | – becomes silt, some sand, some clay, trace of gravel | |
| 30.0 | | | – cobble encountered from 27.5 m – 32.0 m from 100–300 mm in size | |
| 31.0 | | | | |
| 32.0 | | | | |
| 33.0 | | | | |
| 34.0 | | | | |




EBA ENGINEERING CONSULTANTS LTD.
Vancouver, B.C.

LOGGED BY: JSB
REVIEWED BY: JRT

COMPLETION DEPTH: 56.39 m
COMPLETE:



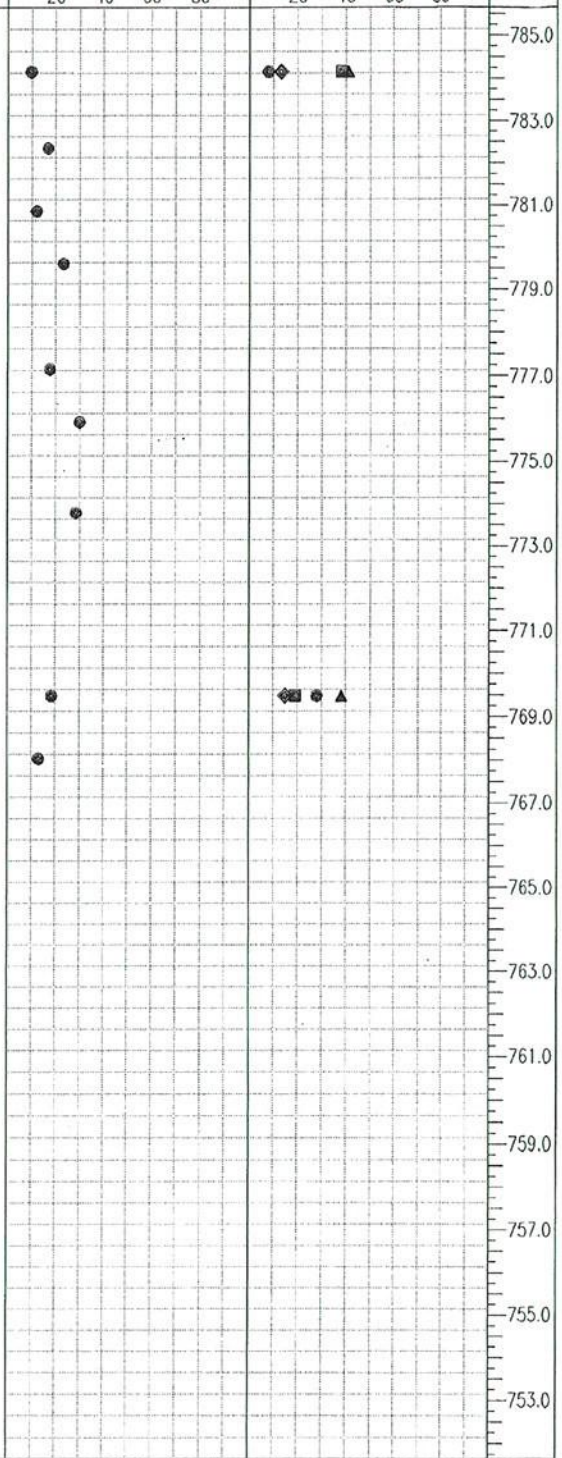
06/03/29 04:56PM (YUKONP65)

| | | |
|---|---|---|
| Minto Mine Development 2005 | Client: Sherwood Mining Corporation | BOREHOLE NO: 1200173-042 |
| Minto Copper Mine | DRILL: DD HQ | PROJECT NO: 1200173 |
| NW of Minto, YT | UTM ZONE: 8 N6944772.3 E384660.54 | ELEVATION: 819.64 m |

SAMPLE TYPE: GRAB SAMPLE | NO RECOVERY | HQ | NQ | CRREL BARREL

BACKFILL TYPE: BENTONITE | PEA GRAVEL | SLOUGH | GROUT | DRILL CUTTINGS | SAND

| Depth(m) | SAMPLE TYPE | SAMPLE NO | THERMISTOR STRING | SOIL DESCRIPTION | GROUND ICE DESCRIPTION |
|---|---|---|---|---|---|
| 34.0 | | | | | |
| 35.0 | | | | | |
| 36.0 | | | | | |
| 37.0 | | | | – trace to some gravel from 36.6 m to 37.8 m<br>– some gravel below 36.6 m | |
| 38.0 | | | | | |
| 39.0 | | | | | |
| 40.0 | | | | – sand becomes fine grained from 39.6 to 41.1 m<br>– silty, trace of fine gravel, trace of clay between 39.6 to 41.1 m | Vs, 5–10%,<br>Vx,< 5% |
| 41.0 | | | | | |
| 42.0 | | | | – colour becomes dark grey | |
| 43.0 | | | | – becomes silt, clayey, trace fo sand around 43.0 m<br>– colour changes to medium grey | Vs < 2 mm thick<br>100–200 mm apart |
| 44.0 | | | | | |
| 45.0 | | | | – trace of fine to medium grained gravel, intermittently spaced at 200 to 300 mm below 44.5 m | |
| 46.0 | | | | | |
| 47.0 | | | | | |
| 48.0 | | | | | |
| 49.0 | | | | | |
| 50.0 | | | | | |
| 51.0 | | | | – becomes some gravel, fine to medium grained below 50.6 m | |
| 52.0 | | | | BEDROCK (GRANITE) – poor quality, high fractures and oxidizing | |
| 53.0 | | | | | |
| 54.0 | | | | | |
| 55.0 | | | | | |
| 56.0 | | | | | |
| 57.0 | | | | END OF BOREHOLE 56.7 m<br>– no water encountered at time of drilling | |
| 58.0 | | | | | |
| 59.0 | | | | | |
| 60.0 | | | | | |
| 61.0 | | | | | |
| 62.0 | | | | | |
| 63.0 | | | | | |
| 64.0 | | | | | |
| 65.0 | | | | | |
| 66.0 | | | | | |
| 67.0 | | | | | |
| 68.0 | | | | | |




| | | |
|---|---|---|
| EBA ENGINEERING CONSULTANTS LTD. | LOGGED BY: JSB | COMPLETION DEPTH: 56.39 m |
| Vancouver, B.C. | REVIEWED BY: JRT | COMPLETE: |
| | | Page 2 of 2 |

06/03/29 04:56PM (YUKONP65)

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 042

Date Hole Started: Saturday, October 8, 2005
Date Hole Finished: Saturday, October 8, 2005
Total Hole Depth (m): 56.69
Depth of Casing (m): 52.12
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 52.12 | | | | | | | | | | | | | | | | | | | | | | | overburden - no measurements recorded |
| 53.64 | 1.52 | 1.00 | 1.50 | 98.68 | 0.16 | 10.53 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 10.0 | 3 | 4 | 12 | 3 | 4 | 0.18 | broken core; highly weathered |
| 55.17 | 1.53 | 2.00 | 1.43 | 93.46 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 10.0 | 3 | 4 | 12 | 1.5 | 4 | 1.39 | broken core; highly weathered |
| 56.69 | 1.52 | 3.00 | 0.92 | 60.53 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 10 | 3 | 4 | 7.5 | broken core; highly weathered |
| | -56.69 | 4.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | **geotech hole primarily concerned with overburden** |
| | 0.00 | 5.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 6.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 7.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 8.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 9.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 10.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
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| | 0.00 | 15.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 16.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 17.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 18.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 19.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 20.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 21.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 22.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 23.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 24.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 25.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 26.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 27.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 28.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 29.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 30.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 31.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 32.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 33.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 34.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 35.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 36.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 37.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 38.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 39.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 40.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |

08/03/2002

PGT 07
4.5-4.7m
Barrant
08/03/2002

PGT 07
6.1-6.3
Barnant
08/03/2002

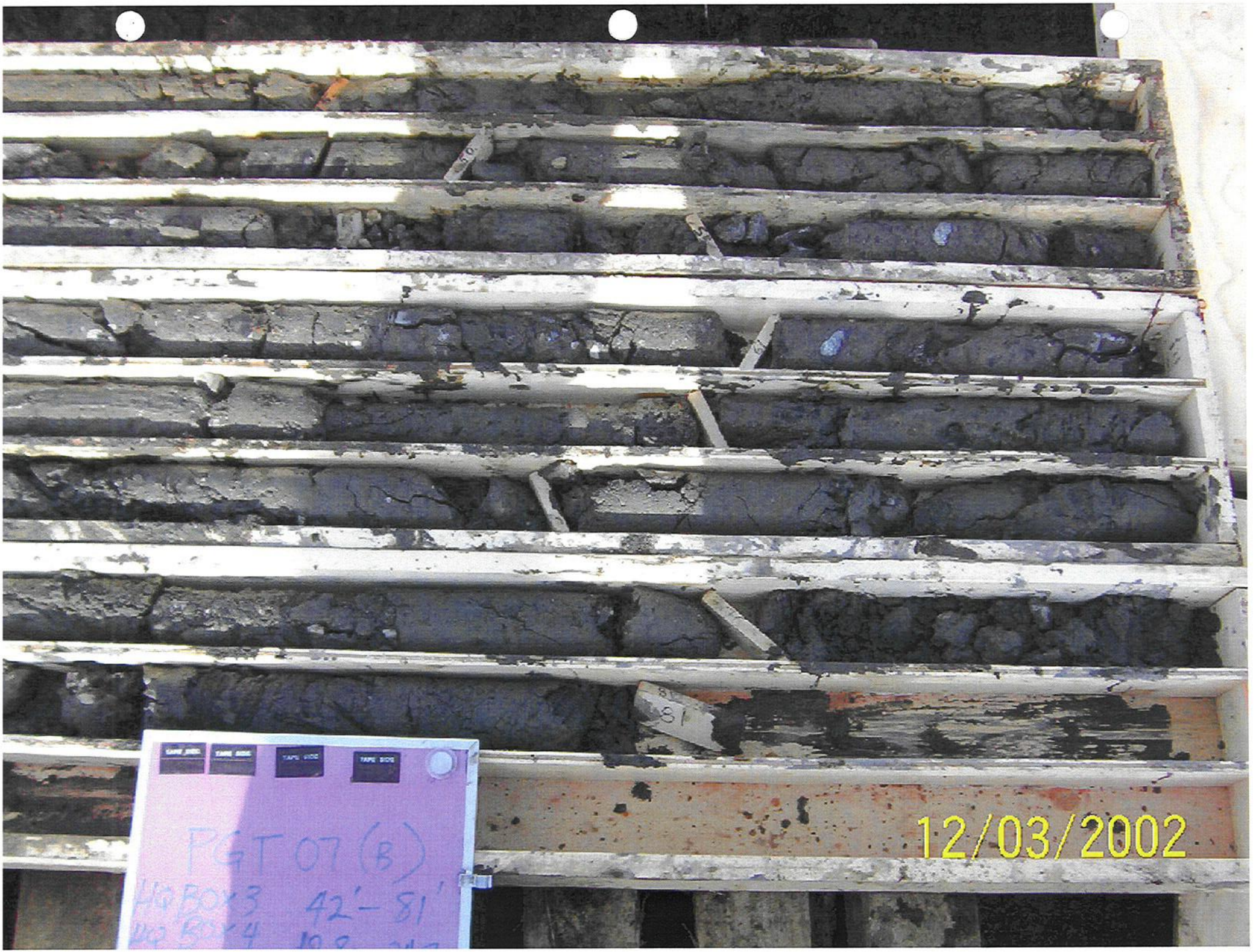
PGT 07
6.1-6.3
Barnant
08/03/2002

PGT 07
6.1-6.3
Barnant
08/03/2002

12/03/2002

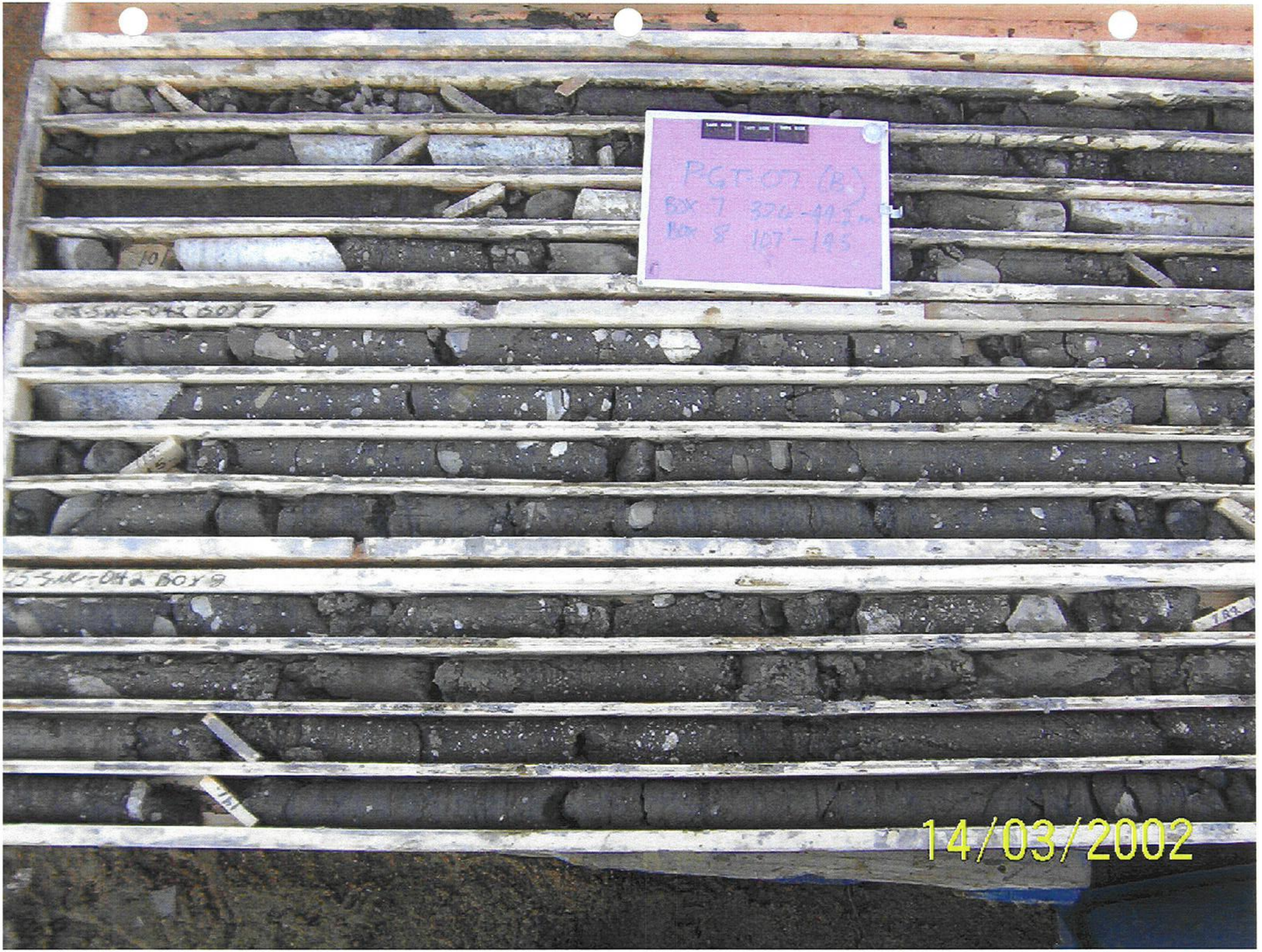
TAPE SIDE
PGT07
(SWC-072)
BOX 2 12.5m
12/03/2002

12/03/2002


PGT 07 (B)
12/03/2002

13/03/2002

PGT-07 (B)
Box 5 216m-232.5m
Box 6 7'-10½'
14/03/2002


PGT-07 (B)
BOX 7 326-441m
14/03/2002

TAPE SIDE
TAPE SIDE
TAPE SIDE
P-GT-07 (B)
BOX 7 35.4-35.55m
= 116'-116'-6"
14/03/2002

TAPE SIDE
TAPE SIDE
TAPE SIDE
P-GT-07 (B)
BOX 7 35.4-35.55m
= 116'-116'-6"
14/03/2002

PGT-07 (B)
Box 7 445-567'
Box 10 146'-186'
14/03/2002

PGT-07 (B.)
BOX 9 445-567m
BOX 10 146'-186'
166
186
14/03/2002

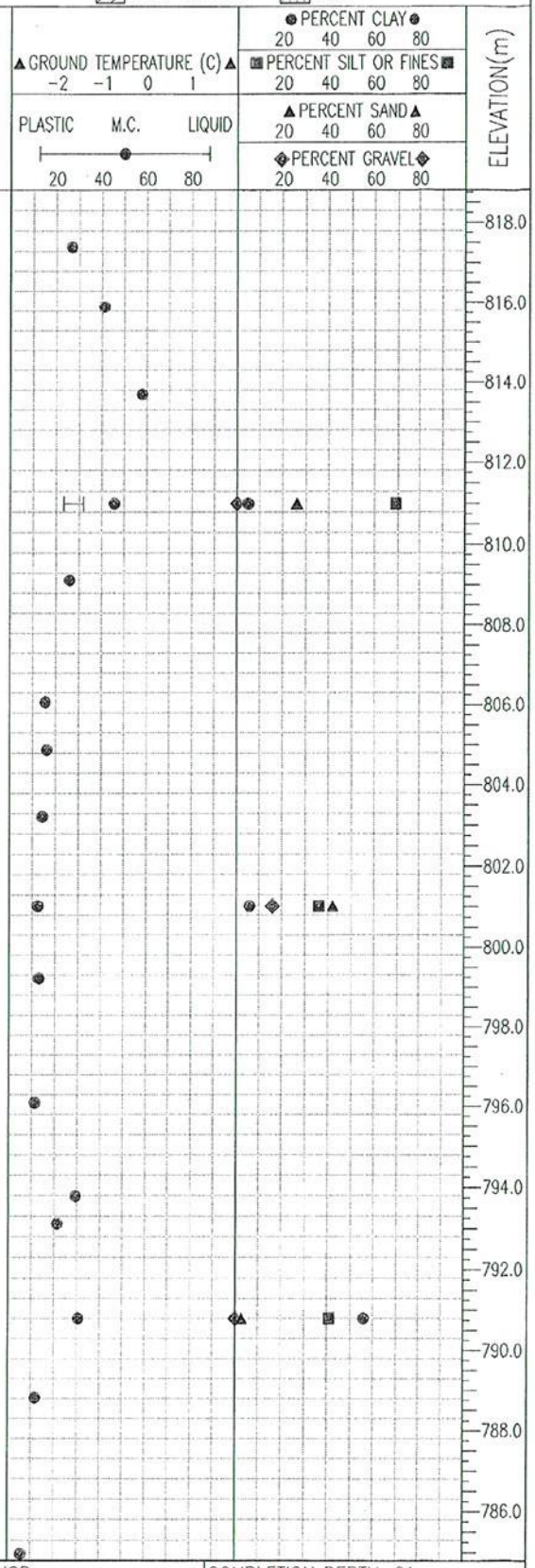
DDH: 05SWC-01-E
Box 10 To Box 10
DATE: 2005
From 50.12 m To 56.69 m
50.12 m - 56.69m
50.12
50.60
52.10
53.04
55.17
56.69
56.69m E.O.H.

| | | |
|---|---|---|
| Minto Mine Development 2005 | Client: Sherwood Mining Corporation | BOREHOLE NO: 1200173-043 |
| Minto Copper Mine | DRILL: DD HQ | PROJECT NO: 1200173 |
| NW of Minto, YT | UTM ZONE: 8 N6944780.92 E384730.74 | ELEVATION: 818.8 m |

SAMPLE TYPE: GRAB SAMPLE | NO RECOVERY | HQ | NQ | CRREL BARREL

BACKFILL TYPE: BENTONITE | PEA GRAVEL | SLOUGH | GROUT | DRILL CUTTINGS | SAND

| Depth(m) | SAMPLE TYPE | SAMPLE NO | WELL INSTALLATION | SOIL DESCRIPTION | GROUND ICE DESCRIPTION |
|---|---|---|---|---|---|
| 0.0 | | | | SILT – sandy, fine grained, dark brown | |
| 1.0 | | | | | Vx, trace < 5% well bonded below 1.5 m |
| 2.0 | | | | | |
| 3.0 | | | | SAND – some silt, trace of fine to medium grained gravel | Nbe, well bonded |
| 4.0 | | | | – colour changes to medium brown around 3.0 m | |
| 5.0 | | | | – sand becomes fine to medium grained below 3.5 m | |
| 6.0 | | | | – silty below 3.5 m | |
| 7.0 | | | | – trace of fine gravel around 3.5 m | |
| 8.0 | | | | – cobbles and coarse gravel, encountered around 6.1 m to 6.5 m | Vx 10–15% Vs, 20–25% 5–100 mm thick, spaced 5–100 mm |
| 9.0 | | | | – medium grey colour | |
| 10.0 | | | | – gravel content increases, becomes coarser around 8.8 m | |
| 11.0 | | | | | |
| 12.0 | | | | | |
| 13.0 | | | | | |
| 14.0 | | | | | |
| 15.0 | | | | | Vx, 10–15% med. bonded |
| 16.0 | | | | | |
| 17.0 | | | | | |
| 18.0 | | | | | |
| 19.0 | | | | | |
| 20.0 | | | | SILT – some clay, some sand, fine grained, medium grey | Vx, 5–10% Vs, 15–20% 2–5 mm thick spaced 150 – 300 mm |
| 21.0 | | | | – trace to some fine to medium gravel below 20.1 m | |
| 22.0 | | | | | |
| 23.0 | | | | | |
| 24.0 | | | | | |
| 25.0 | | | | – becomes clayey around 25.0 m | Vx, trace 5–10% |
| 26.0 | | | | – trace of sand around 25.0 m | becomes well bonded |
| 27.0 | | | | | |
| 28.0 | | | | | |
| 29.0 | | | | | |
| 30.0 | | | | – trace of fine to medium grained gravel from 29.3 to 32.3 m | |
| 31.0 | | | | | |
| 32.0 | | | | | |
| 33.0 | | | | | |
| 34.0 | | | | – some gravel encountered from | Vs, trace |




| | | |
|---|---|---|
| EBA ENGINEERING CONSULTANTS LTD. Vancouver, B.C. | LOGGED BY: JSB<br>REVIEWED BY: JRT | COMPLETION DEPTH: 61 m<br>COMPLETE: |
| | | Page 1 of 2 |

06/03/29 04:57PM (YUKONPES)

| | | |
|---|---|---|
| Minto Mine Development 2005 | Client: Sherwood Mining Corporation | BOREHOLE NO: 1200173-043 |
| Minto Copper Mine | DRILL: DD HQ | PROJECT NO: 1200173 |
| NW of Minto, YT | UTM ZONE: 8 N6944780.92 E384730.74 | ELEVATION: 818.8 m |

SAMPLE TYPE: GRAB SAMPLE | NO RECOVERY | HQ | NQ | CRREL BARREL

BACKFILL TYPE: BENTONITE | PEA GRAVEL | SLOUGH | GROUT | DRILL CUTTINGS | SAND

| Depth(m) | SAMPLE TYPE | SAMPLE NO | WELL INSTALLATION | SOIL DESCRIPTION | GROUND ICE DESCRIPTION |
|---|---|---|---|---|---|
| 34.0 | | | | 33.2 m to 37.2 m<br>– may have been ice rich with fine grained soils that would have been washed during drilling<br>– cobbles present below 33.2 m<br>– becomes sandy below 33.8 m<br>– some clay present below 33.8 m<br>– trace of fine gravel below 33.8 m | spaced 200 – 600 mm<br>2–75 mm thick |
| 44.0 | | | | SAND – silly, some clay, some gravel, well graded sand, fine to medium grained gravel, dark grey | Vx, trace<br>Vs, 10–15%<br>2–5 mm thick<br>spaced 200 – 300 mm<br>Nbe, well bonded |
| 53.0 | | | | SILT – clayey, trace of sand, fine grained, medium grey | Nbn |
| 57.0 | | | | BEDROCK (GRANITE) – poor quality, fractured, oxidized, rust coloured, coarse sand, trace to some silt infill<br>– becomes competent with depth around 59.4 m | |
| 61.0 | | | | END OF BOREHOLE 61.0 m | |

GROUND TEMPERATURE (C): −2 −1 0 1

PLASTIC M.C. LIQUID: 20 40 60 80

PERCENT CLAY: 20 40 60 80

PERCENT SILT OR FINES: 20 40 60 80

PERCENT SAND: 20 40 60 80

PERCENT GRAVEL: 20 40 60 80

ELEVATION(m): 784.0, 782.0, 780.0, 778.0, 776.0, 774.0, 772.0, 770.0, 768.0, 766.0, 764.0, 762.0, 760.0, 758.0, 756.0, 754.0, 752.0

| | | |
|---|---|---|
| EBA ENGINEERING CONSULTANTS LTD.<br>Vancouver, B.C. | LOGGED BY: JSB<br>REVIEWED BY: JRT | COMPLETION DEPTH: 61 m<br>COMPLETE: |
| | | Page 2 of 2 |

06/03/29 04:57PM (YUKONP65)

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 043

Date Hole Started: Saturday, October 8, 2005
Date Hole Finished: Saturday, October 8, 2005
Total Hole Depth (m): 61.06
Depth of Casing (m): 58.22
Core Size: HQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 58.22 | | | | | | | | | | | | | | | | | | | | | | | overburden - no measurments recorded |
| 59.74 | 1.52 | 1.00 | 1.48 | 97.37 | 0.45 | 29.61 | 10 | 1 | W4 | R | 2.0 | 3.0 | 5.0 | 52.0 | - | 0.0 | 1 | 12 | 14 | 1.5 | 4 | 0.1 | |
| 61.06 | 1.32 | 2.00 | 1.29 | 97.73 | 0.97 | 73.48 | 8 | 1 | W3 | R | 3.0 | 4.0 | 4.0 | 34.0 | - | 14.0 | 1.5 | 4 | 14 | 1.5 | 4 | 0.06 | E.O.H. |
| | -61.06 | 3.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | **geotech hole primarily concerend with overburden** |
| | 0.00 | 4.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 5.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 6.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 7.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 8.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 9.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 10.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 11.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 12.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
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| | 0.00 | 14.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 15.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 16.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 17.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 18.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 19.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 20.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 21.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 22.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 23.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 24.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 25.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 26.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 27.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 28.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 29.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 30.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 31.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
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| | 0.00 | 36.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 37.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 38.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
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| | 0.00 | 40.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |

# POINT LOAD TEST RECORD



Project Name: _____ Minto

Date: _____ Saturday, October 8, 2005

Recorded by: Matthew R. Kochtubajda

Project Number: _____ 05SWC-043

| Depth | Break Type | Parallel / Perpendicular | Width (mm) | Diameter (mm) | Pressure (kPa/PSI) | Rock Type / Comments |
|---|---|---|---|---|---|---|
| 60 | D | - | - | HQ | 11740 | crs-grained |
| 60 | A | - | 32 | HQ | 5440 | broke along a weathered fracture |

TYPE:

D - Diametral
A - Axial
L - Perpendicular
// - Parallel

14/03/2002

15/03/2002

15/03/2002

15/03/2002

560-610
184'-200'
15/03/2002

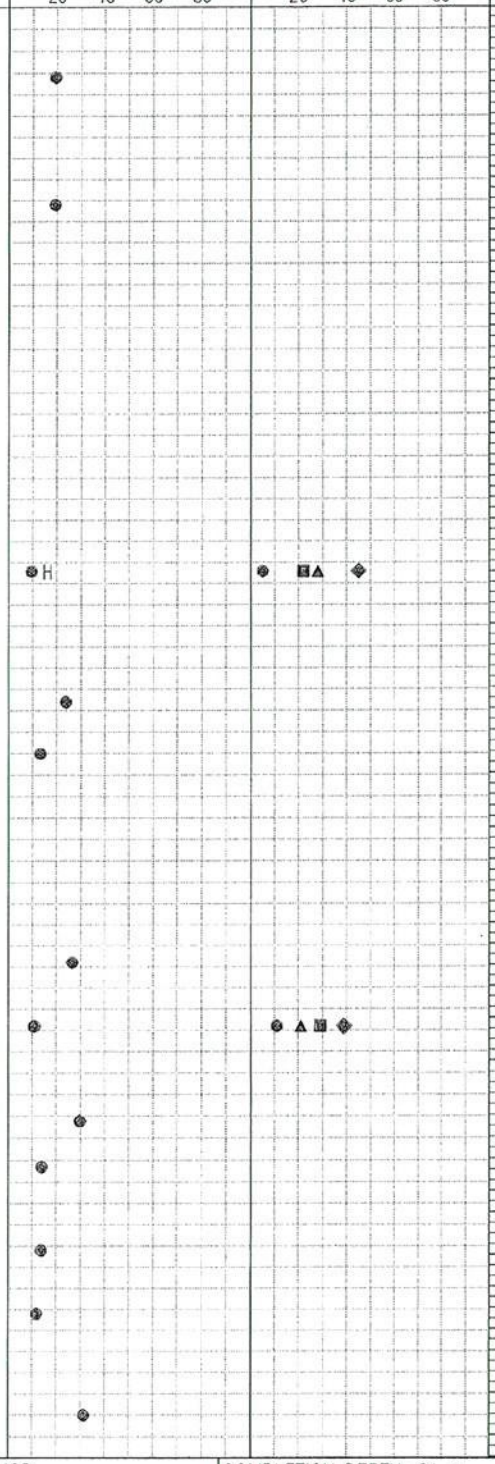
DDH: 05SWC - 043 Box: 12 to Box: 13
Date: Sat, Oct 8 2005 From: 56.10 m To: 61.06 m
05-SWC-043 - Box 12
56.10m - 59.80m
57.00
58.22
59.79
59.80m - 61.06m
61.06
EOH
62.06m

| | | |
|---|---|---|
| Minto Mine Development 2005 | Client: Sherwood Mining Corporation | BOREHOLE NO: 1200173-044 |
| Minto Copper Mine | DRILL: DD HQ | PROJECT NO: 1200173 |
| NW of Minto, YT | UTM ZONE: 8 N6944758.56 E384582.51 | ELEVATION: 824.96 m |

SAMPLE TYPE: GRAB SAMPLE | NO RECOVERY | HQ | NQ | CRREL BARREL

BACKFILL TYPE: BENTONITE | PEA GRAVEL | SLOUGH | GROUT | DRILL CUTTINGS | SAND

| Depth(m) | SAMPLE TYPE | SAMPLE NO | WELL INSTALLATION | SOIL DESCRIPTION | GROUND ICE DESCRIPTION |
|---|---|---|---|---|---|
| 0.0 | | | | ORGANIC ROOT AND MOSS COVER | |
| 1.0 | | | | SILT – trace to some sand<br>– poor to no recovery from 0.0 m to 22.0 m<br>– some gravel, fine to coarse grained encountered from 2.1 m to 21.9 m<br>– some cobbles are present between 2.1 to 21.9 m | |
| 13.0 | | | | GRAVEL – sandy, silty, trace of clay, well graded sand, fine to medium subrounded gravel, medium grey | Visible ice inclusions 10–15% clear ice, well bonded between 12.8 m – 16.2 m Vs, 2–75 mm thick, spaced 150 – 300 mm Vx, trace |
| 16.0 | | | | SILT – sandy, some gravel, some clay, medium to coarse angular sand, fine to medium grained gravel, grey | |
| 22.0 | | | | – gravel content increases around 23.0 m | mainly Vx trace below 22.0 m |
| 24.0 | | | | – poor recovery from 25.0 to 26.5 m | |
| 27.0 | | | | SAND – silty, some gravel to gravelly, well graded angular sand, well graded subangular and rounded gravel, dark grey<br>– visible ice from 27.3 to 40.2 m consists mainly of medium bonded | Vx, 10–15% med. bonded Vs, trace 2–5 mm thick |
| 33.0 | | | | – some intermittent layers of silt diamict are present from 32.6 to | |




ELEVATION(m): 824.0, 822.0, 820.0, 818.0, 816.0, 814.0, 812.0, 810.0, 808.0, 806.0, 804.0, 802.0, 800.0, 798.0, 796.0, 794.0, 792.0

| | | |
|---|---|---|
| EBA ENGINEERING CONSULTANTS LTD. Vancouver, B.C. | LOGGED BY: JSB | COMPLETION DEPTH: 61 m |
| | REVIEWED BY: JRT | COMPLETE: |
| | | Page 1 of 2 |

06/03/29 04:57PM (YUKONP65)

| | | |
|---|---|---|
| Minto Mine Development 2005 | Client: Sherwood Mining Corporation | BOREHOLE NO: 1200173-044 |
| Minto Copper Mine | DRILL: DD HQ | PROJECT NO: 1200173 |
| NW of Minto, YT | UTM ZONE: 8 N6944758.56 E384582.51 | ELEVATION: 824.96 m |

SAMPLE TYPE: GRAB SAMPLE | NO RECOVERY | HQ | NQ | CRREL BARREL

BACKFILL TYPE: BENTONITE | PEA GRAVEL | SLOUGH | GROUT | DRILL CUTTINGS | SAND

| Depth(m) | SAMPLE TYPE | SAMPLE NO | WELL INSTALLATION | SOIL DESCRIPTION | GROUND ICE DESCRIPTION | GROUND TEMPERATURE (C) -2 -1 0 1 / PLASTIC M.C. LIQUID 20 40 60 80 | PERCENT CLAY 20 40 60 80 / PERCENT SILT OR FINES 20 40 60 80 / PERCENT SAND 20 40 60 80 / PERCENT GRAVEL 20 40 60 80 | ELEVATION(m) |
|---|---|---|---|---|---|---|---|---|
| 34.0 | | | | 34.7 m | | | | 790.0 |
| 35.0 | | | | – colour changes to dark brown from 33.2 m to 36.2 m and 36.9 m to 40.2 | | | | |
| 36.0 | | | | | | | | 788.0 |
| 37.0 | | | | | | | | |
| 38.0 | | | | | | | | 786.0 |
| 39.0 | | | | | | | | |
| 40.0 | | | | | | | | 784.0 |
| 41.0 | | | | | Vs, well bonded spaced 200 – 500 mm | | | |
| 42.0 | | | | – some clay below 42.0 m | | | | 782.0 |
| 43.0 | | | | | | | | |
| 44.0 | | | | | | | | 780.0 |
| 45.0 | | | | – coarser gravels, cobbles from 44.5 to 45.7 m | | | | |
| 46.0 | | | | | | | | 778.0 |
| 47.0 | | | | | | | | |
| 48.0 | | | | | | | | 776.0 |
| 49.0 | | | | – gravelly below 48.4 m | | | | |
| 50.0 | | | | – becomes silt – sandy below 50.0 m | | | | 774.0 |
| 51.0 | | | | – dark grey | | | | |
| 52.0 | | | | BEDROCK (GRANITE) – poor quality, highly fractured oxidized, sand and silt infilled | | | | 772.0 |
| 53.0 | | | | | | | | |
| 54.0 | | | | | | | | 770.0 |
| 55.0 | | | | | | | | |
| 56.0 | | | | | | | | 768.0 |
| 57.0 | | | | END OF BOREHOLE 57.0 m | | | | |
| 58.0 | | | | | | | | 766.0 |
| 59.0 | | | | | | | | |
| 60.0 | | | | | | | | 764.0 |
| 61.0 | | | | | | | | |
| 62.0 | | | | | | | | 762.0 |
| 63.0 | | | | | | | | |
| 64.0 | | | | | | | | 760.0 |
| 65.0 | | | | | | | | |
| 66.0 | | | | | | | | 758.0 |
| 67.0 | | | | | | | | |
| 68.0 | | | | | | | | |

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Vancouver, B.C.

| | |
|---|---|
| LOGGED BY: JSB | COMPLETION DEPTH: 61 m |
| REVIEWED BY: JRT | COMPLETE: |



06/03/29 04:57PM (YUKONP65)

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 044

Date Hole Started: Saturday, October 8, 2005
Date Hole Finished: Saturday, October 8, 2005
Total Hole Depth (m): 57
Depth of Casing (m): 50.9
Core Size: HQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 50.90 | | | | | | | | | | | | | | | | | | | | | | | overburden - no measurements recorded |
| 52.43 | 1.53 | 1.00 | 1.25 | 81.70 | 0.00 | 0.00 | 9999 | - | W5 | S | 2.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.73 | broken core; mostly sand mixed with clay |
| 53.95 | 1.52 | 2.00 | 1.69 | 111.18 | 0.00 | 0.00 | 9999 | - | W6 | S | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.53 | broken core; mostly sand mixed with clay |
| 55.47 | 1.52 | 3.00 | 1.49 | 98.03 | 0.11 | 7.24 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 12 | 3 | 4 | 0.42 | broken core |
| 57.00 | 1.53 | 4.00 | 1.00 | 65.36 | 0.00 | 0.00 | 9999 | - | W4 | R | 3.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 12 | 3 | 4 | 0.2 | E.O.H. broken core; mostly crushed rock |
| | -57.00 | 5.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | **geotech hole primarily concerned with overburden** |
| | 0.00 | 6.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 7.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 8.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 9.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 10.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 11.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 12.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 13.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 14.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 15.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 16.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 17.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 18.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 19.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 20.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 21.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 22.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 23.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 24.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 25.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 26.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 27.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 28.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 29.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 30.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 31.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 32.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 33.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 34.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 35.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 36.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 37.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 38.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 39.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 40.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |

82
16/03/2002

16/03/2002

05-SWC 044 BOX 4
05 SWC 044 BX5
05-SWC-044 BX6
16/03/2002

P-GT-06
17/03/2002

P-GT-06
17/03/2002

DDH: 05SWC
Box: 9 To Box: 15
Date: 2005
From: 49.78m To: 57.00m
49.78m - 54.12m
54.12m - 57.00m
50.90
53.95
55.97
57.00
57.00m

| | | |
|---|---|---|
| Minto Mine Development 2005 | Client: Sherwood Mining Corporation | BOREHOLE NO: 1200173-045 |
| Minto Copper Mine | DRILL: DD HQ | PROJECT NO: 1200173 |
| NW of Minto, YT | UTM ZONE: 8 N6944772.1 E384515.45 | ELEVATION: 823.19 m |

SAMPLE TYPE: GRAB SAMPLE | NO RECOVERY | HQ | NQ | CRREL BARREL

BACKFILL TYPE: BENTONITE | PEA GRAVEL | SLOUGH | GROUT | DRILL CUTTINGS | SAND

| Depth(m) | SAMPLE TYPE | SAMPLE NO | THERMISTOR STRING | SOIL DESCRIPTION | GROUND ICE DESCRIPTION | GROUND TEMPERATURE (C) -2 -1 0 1 / PLASTIC M.C. LIQUID 20 40 60 80 | PERCENT CLAY 20 40 60 80 / PERCENT SILT OR FINES 20 40 60 80 / PERCENT SAND 20 40 60 80 / PERCENT GRAVEL 20 40 60 80 | ELEVATION(m) |
|---|---|---|---|---|---|---|---|---|
| 0.0 | | | | MOSS COVERED ORGANIC ROOT MAT | | | | 823.0 |
| 1.0 | | | | SILT – some sand, trace of clay | | | | |
| 2.0 | | | | – poor to no recovery from 0.0 m to 9.0 m | | | | |
| 3.0 | | | | – gravels present below 3.0 m to 12.5 m | | | | 821.0 |
| 4.0 | | | | | | | | |
| 5.0 | | | | | | | | 819.0 |
| 6.0 | | | | | | | | |
| 7.0 | | | | – visible ice below 6.4 m | Vx 10–15% | | | 817.0 |
| 8.0 | | | | SAND – gravelly, silty, trace of clay, well graded sand, fine to med. grained gravel, grey | Vs, 10–15% 2–5 mm thick, spaced 300 mm from 7.6–22.6 m | | | |
| 9.0 | | | | | | | | 815.0 |
| 10.0 | | | | – some cobbles encountered below 10.0 m to 15.5 m | | | | |
| 11.0 | | | | | | | | 813.0 |
| 12.0 | | | | | | | | |
| 13.0 | | | | | Vs 20–30% | | | 811.0 |
| 14.0 | | | | | | | | |
| 15.0 | | | | | | | | 809.0 |
| 16.0 | | | | SILT – clayey, trace sand, fine grained, medium to dark grey | | | | |
| 17.0 | | | | | | | | 807.0 |
| 18.0 | | | | SAND – gravelly, some silt, well graded sand, fine to medium grained gravel, med. to dark grey | | | | |
| 19.0 | | | | | | | | 805.0 |
| 20.0 | | | | – some gravel below 19.8 m | | | | |
| 21.0 | | | | – trace of clay below 19.8 m | | | | 803.0 |
| 22.0 | | | | – becomes silty below 21.3 m | | | | |
| 23.0 | | | | – occasional cobbles encountered below 22.9 m | Vs, 10–15% 2–75 mm thick spaced 75 to 500 mm | | | 801.0 |
| 24.0 | | | | | | | | |
| 25.0 | | | | | Vx, 10–15% from 22.9 – 49.1 m | | | 799.0 |
| 26.0 | | | | | | | | |
| 27.0 | | | | – poor to no recovery from 26.2 m to 27.7 m | | | | 797.0 |
| 28.0 | | | | | | | | |
| 29.0 | | | | | | | | 795.0 |
| 30.0 | | | | | | | | |
| 31.0 | | | | | | | | 793.0 |
| 32.0 | | | | | | | | |
| 33.0 | | | | – becomes silt, sandy around 32.0 m | | | | 791.0 |
| 34.0 | | | | – trace of gravel below 32.0 m | | | | |

| | | |
|---|---|---|
| EBA ENGINEERING CONSULTANTS LTD. Vancouver, B.C. | LOGGED BY: JSB | COMPLETION DEPTH: 60.96 m |
| | REVIEWED BY: JRT | COMPLETE: |
| | | Page 1 of 2 |

06/03/29 04:57PM (YUKONP65)

| | | |
|---|---|---|
| Minto Mine Development 2005 | Client: Sherwood Mining Corporation | BOREHOLE NO: 1200173-045 |
| Minto Copper Mine | DRILL: DD HQ | PROJECT NO: 1200173 |
| NW of Minto, YT | UTM ZONE: 8 N6944772.1 E384515.45 | ELEVATION: 823.19 m |

SAMPLE TYPE: GRAB SAMPLE | NO RECOVERY | HQ | NQ | CRREL BARREL

BACKFILL TYPE: BENTONITE | PEA GRAVEL | SLOUGH | GROUT | DRILL CUTTINGS | SAND

| Depth(m) | SAMPLE TYPE | SAMPLE NO | THERMISTOR STRING | SOIL DESCRIPTION | GROUND ICE DESCRIPTION |
|---|---|---|---|---|---|
| 34.0 | | | | – becomes clayey around 32.0 m | |
| 35.0 | | | | | |
| 36.0 | | | | – becomes sand, silty, some gravel, some clay below 35.4 m | |
| 37.0 | | | | – colour changes to dark brown | |
| 38.0 | | | | | |
| 39.0 | | | | | |
| 40.0 | | | | | |
| 41.0 | | | | | |
| 42.0 | | | | – becomes silt, sandy, clayey, trace of fine gravel | |
| 43.0 | | | | | |
| 44.0 | | | | | |
| 45.0 | | | | | Vs, 15–20% 5–10 mm thick spaced 300 to 600 mm |
| 46.0 | | | | | |
| 47.0 | | | | | |
| 48.0 | | | | | Vx, 10% from |
| 49.0 | | | | | 43.0 to 59.0 m |
| 50.0 | | | | | |
| 51.0 | | | | | |
| 52.0 | | | | – poor recovery from 52.0 to 53.6 m | |
| 53.0 | | | | | |
| 54.0 | | | | | |
| 55.0 | | | | | |
| 56.0 | | | | | |
| 57.0 | | | | | |
| 58.0 | | | | | |
| 59.0 | | | | | Vx, 20% |
| 60.0 | | | | SAND – silty, gravelly, trace of clay, well graded sand, fine to medium gravel, light to medium grey | |
| 61.0 | | | | | |
| 62.0 | | | | BEDROCK (GRANITE) – poor quality, highly fractured, decomposed | |
| 63.0 | | | | | |
| 64.0 | | | | | |
| 65.0 | | | | | |
| 66.0 | | | | | |
| 67.0 | | | | | |
| 68.0 | | | | | |

GROUND TEMPERATURE (C): −2 −1 0 1

PLASTIC M.C. LIQUID: 20 40 60 80

PERCENT CLAY: 20 40 60 80

PERCENT SILT OR FINES: 20 40 60 80

PERCENT SAND: 20 40 60 80

PERCENT GRAVEL: 20 40 60 80

ELEVATION(m): 789.0, 787.0, 785.0, 783.0, 781.0, 779.0, 777.0, 775.0, 773.0, 771.0, 769.0, 767.0, 765.0, 763.0, 761.0, 759.0, 757.0

EBA ENGINEERING CONSULTANTS LTD.
Vancouver, B.C.

LOGGED BY: JSB
REVIEWED BY: JRT

COMPLETION DEPTH: 60.96 m
COMPLETE:



06/03/29 04:57PM (YUKONP65)

| | | |
|---|---|---|
| Minto Mine Development 2005 | Client: Sherwood Mining Corporation | BOREHOLE NO: 1200173-045B |
| Minto Copper Mine | DRILL: CME 750 – Hollow Stem | PROJECT NO: 1200173 |
| NW of Minto, YT | UTM ZONE: 8 N6944772.1 E384515.45 | ELEVATION: 823.19 m |

SAMPLE TYPE: GRAB SAMPLE | NO RECOVERY | HQ | NQ | CRREL BARREL

BACKFILL TYPE: BENTONITE | PEA GRAVEL | SLOUGH | GROUT | DRILL CUTTINGS | SAND

| Depth(m) | SAMPLE TYPE | SAMPLE NO | THERMISTOR STRING | SOIL DESCRIPTION | GROUND ICE DESCRIPTION |
|---|---|---|---|---|---|
| 0.0 | | | | ORGANIC ROOT MAT | PERMAFROST |
| 1.0 | | | | SILT – sandy, trace of fine gravel, dark brown | |
| 2.0 | | | | – poor recovery CRREL has thawed sample during drilling | Vs, 10–15% crystals |
| 3.0 | | | | – becomes sand, gravelly, silty, well graded sand, fine to medium grained gravel | Vx trace < 5% |
| 4.0 | | | | | Vc trace < 5% |
| 5.0 | | | | – colour changes to medium grey around 2.5 m | |
| 6.0 | | | | – cobble encountered around 5.0 m | |
| 7.0 | | | | – more gravel and coarser around 5.0 m | |
| 8.0 | | | | – no recovery from 6.5 m to 7.5 m | |
| 9.0 | | | | SILT – sandy, trace to some fine to medium grained gravel, dark grey | |
| 10.0 | | | | – slough continues to fill CRREL | |
| 11.0 | | | | – some clay below 11.2 m | Vx 5–10% |
| 12.0 | | | | | |
| 13.0 | | | | | |
| 14.0 | | | | | |
| 15.0 | | | | | |
| 16.0 | | | | | Vx, Vx 5–10% |
| 17.0 | | | | | |
| 18.0 | | | | | Nbn |
| 19.0 | | | | – sand becomes angular, well graded around 18.9 m | |
| 20.0 | | | | – trace of fine angular gravel around 18.9 m | Nf |
| 21.0 | | | | – grinding, hard drilling around 20.4 m | |
| 22.0 | | | | | |
| 23.0 | | | | – becomes gravelly, fine to medium grained around 20.4 m | Vs, Vr 15–20% |
| 24.0 | | | | | VS, Vx 15–20% |
| 25.0 | | | | | |
| 26.0 | | | | | |
| 27.0 | | | | | Vs, Vx Trace 5% |
| 28.0 | | | | | |
| 29.0 | | | | | Nbe |
| 30.0 | | | | | Vs, 25–30% clear |
| 31.0 | | | | END OF BOREHOLE 30.1 m<br>NOTE: Hole advanced to 30.1 m, 0.6 m slough during 25 mm PVC install, backfilled with mine residuum | |
| 32.0 | | | | | |
| 33.0 | | | | | |
| 34.0 | | | | | |

GROUND TEMPERATURE (C): −2 −1 0 1

PLASTIC M.C. LIQUID: 20 40 60 80

PERCENT CLAY: 20 40 60 80

PERCENT SILT OR FINES: 20 40 60 80

PERCENT SAND: 20 40 60 80

PERCENT GRAVEL: 20 40 60 80

ELEVATION(m): 823.0, 821.0, 819.0, 817.0, 815.0, 813.0, 811.0, 809.0, 807.0, 805.0, 803.0, 801.0, 799.0, 797.0, 795.0, 793.0, 791.0

EBA ENGINEERING CONSULTANTS LTD.
Vancouver, B.C.

LOGGED BY: JSB
REVIEWED BY: JRT

COMPLETION DEPTH: 30.1 m
COMPLETE:



06/03/29 04:58PM (YUKONP65)

BGC ENGINEERING INC.
AN APPLIED EARTH SCIENCES COMPANY

# Geomechanics Log

Client: SHERWOOD COPPER
Project: MINTO
Project Number:
Logged By: MATTHEW KOCHTUBAJDA

Northing:
Easting:
Elevation:
Trend:
Plunge:

**Hole #** 05 SWC 045

Date Hole Started: Tuesday, October 11, 2005
Date Hole Finished: Tuesday, October 11, 2005
Total Hole Depth (m): 70.41
Depth of Casing (m): 59.74
Core Size: NQ

| Run Depth To (m) | Run Length (m) | Run No. | Recovery | | RQD | | No. Fractures | | Alt'n & Weath. | Hardness | | Jn | Average JRC | Alpha - Dominant | Alpha - Sub Dominant | Worst Case | | | Representative (Average) | | | MAG-SUS | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Length (m) | % | Length (m) | % | Joints | Mech Breaks | | Prefix | Value | | | | | Joint Condition | Jr | Ja | Joint Condition | Jr | Ja | | |
| 59.74 | | | | | | | | | | | | | | | | | | | | | | | overburden - no measurments recorded |
| 61.26 | 1.52 | 1.00 | 1.10 | 72.37 | 0.00 | 0.00 | 9999 | - | w5 | s | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 0.31 | broken core; mostly sand and gravel mixed with clay |
| 62.79 | 1.53 | 2.00 | 0.12 | 7.84 | 0.00 | 0.00 | 9999 | - | w5 | r | 3.0 | 9999.0 | - | - | - | 10.0 | 3 | 4 | 10 | 3 | 4 | 0.14 | broken core; couple bits of rock |
| 64.31 | 1.52 | 3.00 | 0.09 | 5.92 | 0.00 | 0.00 | 9999 | - | w5 | s | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 3.42 | broken core |
| 65.84 | 1.53 | 4.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9999 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | no sample for this interval |
| 67.36 | 1.52 | 5.00 | 0.27 | 17.76 | 0.00 | 0.00 | 9999 | - | w5 | s | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 0 | 1 | 6 | 7.37 | broken core; mostly crushed sand with bits of rock |
| 68.88 | 1.52 | 6.00 | 1.03 | 67.76 | 0.00 | 0.00 | 9999 | - | w5 | r | 1.0 | 9999.0 | - | - | - | 0.0 | 1 | 6 | 10 | 3 | 4 | 1.88 | broken core |
| 70.41 | 1.53 | 7.00 | 0.38 | 24.84 | 0.00 | 0.00 | 9999 | - | w5 | r | 1.0 | 9999.0 | - | - | - | 10.0 | 3 | 4 | 10 | 3 | 4 | 1.64 | broken core; E.O.H. |
| | -70.41 | 8.00 | | 0.00 | | 0.00 | | | | | | | | | | | | | | | | | geotech hole primarily concerned with overburden |
| | 0.00 | 9.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 10.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 11.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 12.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 13.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 14.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 15.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 16.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 17.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 18.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 19.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 20.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 21.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 22.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 23.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 24.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 25.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 26.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 27.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 28.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 29.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 30.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 31.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 32.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 33.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 34.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 35.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 36.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 37.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 38.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 39.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |
| | 0.00 | 40.00 | | #DIV/0! | | #DIV/0! | | | | | | | | | | | | | | | | | |

09/03/2002

GAS
PGT08(B)
2.7-37m
10/03/2002

TAPE SIDE
TAPE SIDE
10/03/2002

10/03/2002

GASOLINE
TAPE SIDE
TAPE SIDE
PGT08(B)
Barrant
10/03/2002

TAPE SIDE
TAPE SIDE
PGT08(B)
3.3-4.3m
Barnant
10/03/2002

TAPE SIDE
TAPE SIDE
PGT.
5.0-5.5m
10/03/2002

10/03/2002

PGT06(S)
10/03/2002

GASOLINE
TAPE SIDE
TAPE SIDE
PGTOS(S)
5.4-6.4m
10/03/2002

TAPE SIDE
TAPE SIDE
PGT08(B)
10/03/2002

PGT08(B)
10/03/2002

TAPE SIDE
TAPE SIDE
PGT08(B)
10/03/2002

10/03/2002

PGT08(B)
10.0 - 11.0m
10/03/2002

11/03/2002

11/03/2002

TAPE SIDE
TAPE SIDE
PGT08(B)
17.7-18.0m
11/03/2002

11/03/2002

TAPE SIDE
TAPE SIDE
PGT08(B)
18.9 — 19.5m
11/03/2002

18.9 – 19.5m
11/03/2002

TAPE SIDE
TAPE SIDE
PGT08(P)
20.1 — 20.7m
11/03/2002

PGT-08(P)
20.1 - 20.7m
11/03/2002

1200173
PGT08(B)
23.2-23.5m
12/03/2002

1200173
PGT08(B)
23.2-23.5m
12/03/2002

12/03/2002

12/03/2002

TAPE SIDE
TAPE SIDE
TAPE SIDE
PGT08(B)
235m-241m
12/03/2002

12/03/2002

TAPE SIDE
12/03/2002

66
12/03/2002

TAPE SIDE
TAPE SIDE
TAPE SIDE
TAPE SIDE
PGT08(B)
26.5-27.0m
87'-89'
12/03/2002

TAPE SIDE
TAPE SIDE
TAPE SIDE
TAPE SIDE
12/03/2002

PGT08(B)
26.5-27.0m
87'-89'
12/03/2002

TAPE SIDE
TAPE SIDE
TAPE SIDE
TAPE SIDE
PGT08(B)
287-964m
94'-96'5"
12/03/2002

TAPE SIDE
TAPE SIDE
TAPE SIDE
12/03/2002

17/03/2002

17/03/2002

17/03/2002

17/03/2002

17/03/2002

P-GT-08 (C)
BOX 8
60.0-70.4m
BOX
195'-6"-231'
59.74
62.79
65.84
67.36
68.88
70.41
E.O.H.
19/03/2002

DDH 05SWC
Box: 8 to Box:
Date: 2005
From 59.53 m To 70.41 m
59.53m - 70.41m
59.74
61.26
62.79
65.84
67.36
68.88
70.41
E.O.H.

| | | | |
|---|---|---|---|
| PROJECT: Minto Copper Mine | CLIENT: Sherwood Mining | | BOREHOLE NO.: 05-SWC-046 |
| EBA PROJECT NO.: 1200173 | UTM ZONE: 8 | NORTHING: 6945228.87 | DATE LOGGED: Nov. 28 - 29, 2005 |
| LOCATION: Minto, Yukon | | EASTING: 384592.14 | ELEVATION of COLLAR: 856.2 m |
| | CORE: HQ | BOREHOLE DIP: -63 | DRILL TYPE: Val Dor |
| | | | LOGGED BY: K.E.Kennedy |

PEGMATITIC GRANODIORITE | DATA ENTRY | AUTOMATIC CALCULATION | FOLIATED GRANODIORITE | DYKES

| DEPTH (m) | LITHOLOGY | DESCRIPTION | GRAIN SIZE | INTERVAL (m) | Depth (ft) start | Depth (ft) end | Depth (m) start | Depth (m) end | Interval (m) | Row Height | FRACTURE DENSITY | HARDNESS | DISCONTINUITY DATA: Total No. of Fractures | Natural | Drill Induced | FRACTURE ANGLES a | FRACTURE ANGLES b | FRACTURE ANGLES III | HARDNESS 1 2 3 4 5 | FRACTURE DENSITY (fractures per metre) 5 10 15 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21.6 | | | c | 1.52 | 66.00 | 71.00 | 20.1 | 21.6 | 1.52 | 38.1 | 26.2 | 1.0 | 40 | 40 | 0 | 50 | 2 | - | | |
| 22.4 | | | c | 0.76 | 71.00 | 73.50 | 21.6 | 22.4 | 0.76 | 19.1 | 0.0 | 1.0 | HF | | 0 | 5 | | - | | |
| 38.4 | | | c | 1.52 | 121.00 | 126.00 | 36.9 | 38.4 | 1.52 | 38.1 | 5.9 | 1.5 | 9 | 9 | 0 | 50 | | - | | |
| 47.3 | | | c | 1.22 | 151.00 | 155.00 | 46.0 | 47.3 | 1.22 | 30.5 | 13.9 | 2 | 18 | 17 | 1 | 22 | 3 | - | | |
| 48.5 | | | c | 1.22 | 155.00 | 159.00 | 47.3 | 48.5 | 1.22 | 30.5 | 5.7 | 2 | 9 | 7 | 2 | 0 | | - | | |
| 50.0 | | | c | 1.52 | 159.00 | 164.00 | 48.5 | 50.0 | 1.52 | 38.1 | 12.5 | 2 | 20 | 19 | 1 | 45 | | - | | |
| 51.2 | | | c | 1.22 | 164.00 | 168.00 | 50.0 | 51.2 | 1.22 | 30.5 | 7.4 | 2 | 11 | 9 | 2 | 33 | | - | | |
| 52.4 | | | c | 1.22 | 168.00 | 172.00 | 51.2 | 52.4 | 1.22 | 30.5 | 27.1 | 2 | 35 | 33 | 2 | 40 | | - | | |
| 56.7 | | | c | 1.52 | 181.00 | 186.00 | 55.2 | 56.7 | 1.52 | 38.1 | 5.2 | 2 | 8 | 8 | 0 | 50 | | - | | |
| 64.3 | | pegmatitic dyke; granodiorite | c | 0.91 | 208.00 | 211.00 | 63.4 | 64.3 | 0.91 | 22.9 | 5.5 | 3 | 7 | 5 | 2 | 0 | | - | | |
| 65.9 | | foliated granodiorite | c | 1.52 | 211.00 | 216.00 | 64.3 | 65.9 | 1.52 | 38.1 | 0.0 | 2.5 | HF | | 0 | 15 | | - | | |
| 68.6 | | | c | 1.22 | 221.00 | 225.00 | 67.4 | 68.6 | 1.22 | 30.5 | 19.7 | 2.5 | 29 | 24 | 5 | 10 | | 90 | | |
| 70.1 | | | c | 1.52 | 225.00 | 230.00 | 68.6 | 70.1 | 1.52 | 38.1 | 19.7 | 2.5 | 31 | 30 | 1 | 60 | 204 | 165 | | |
| 73.2 | | granodiorite; fault gouge | c | 1.52 | 235.00 | 240.00 | 71.6 | 73.2 | 1.52 | 38.1 | 0.0 | 2.5 | HF | | 0 | 50 | | 140 | | |
| 82.6 | | | c | 1.52 | 266.00 | 271.00 | 81.1 | 82.6 | 1.52 | 38.1 | 6.6 | 3 | 11 | 10 | 1 | 66 | 4 | 80 | | |
| 86.6 | | | c | 1.22 | 280.00 | 284.00 | 85.4 | 86.6 | 1.22 | 30.5 | 15.6 | 3 | 22 | 19 | 3 | 32 | | 69 | | |
| 89.3 | | foliated granodiorite | c | 1.22 | 289.00 | 293.00 | 88.1 | 89.3 | 1.22 | 30.5 | 7.4 | 3 | 14 | 9 | 5 | 30 | | 60 | | |
| 91.8 | | | c | 0.91 | 298.00 | 301.00 | 90.9 | 91.8 | 0.91 | 22.9 | 3.3 | 3 | 5 | 3 | 2 | 35 | | - | | |
| 93.3 | | weathered foliated granodiorite | c | 1.52 | 301.00 | 306.00 | 91.8 | 93.3 | 1.52 | 38.1 | 15.7 | 2.5 | 32 | 24 | 8 | 35 | | 170 | | |
| 94.2 | | granodiorite | c | 0.91 | 306.00 | 309.00 | 93.3 | 94.2 | 0.91 | 22.9 | 9.8 | 3 | 9 | 9 | 0 | 40 | | 140 | | |
| 95.7 | | | c | 1.52 | 309.00 | 314.00 | 94.2 | 95.7 | 1.52 | 38.1 | 4.6 | 3 | 8 | 7 | 1 | 30 | | 10 | | |
| 97.9 | | granodiorite | c | 1.07 | 317.50 | 321.00 | 96.8 | 97.9 | 1.07 | 26.7 | 0.0 | 2 | HF | | 0 | 12 | 5 | - | | |
| 99.1 | | | c | 1.22 | 321.00 | 325.00 | 97.9 | 99.1 | 1.22 | 30.5 | 9.0 | 3 | 11 | 11 | 0 | 60 | 195 | 25 | | |
| 100.3 | | weathered granodiorite | c | 1.22 | 325.00 | 329.00 | 99.1 | 100.3 | 1.22 | 30.5 | 0.0 | 1 | HF | | 0 | 0 | 13 | - | | |
| 101.8 | | granodiorite | c | 1.52 | 329.00 | 334.00 | 100.3 | 101.8 | 1.52 | 38.1 | 7.2 | 3 | 15 | 11 | 4 | 67 | 200 | - | | |
| 104.6 | | | c | 1.52 | 338.00 | 343.00 | 103.0 | 104.6 | 1.52 | 38.1 | 5.2 | 3 | 10 | 8 | 2 | 32 | | - | | |
| 109.8 | | | c | 1.52 | 355.00 | 360.00 | 108.2 | 109.8 | 1.52 | 38.1 | 11.8 | 4 | 24 | 18 | 6 | 80 | 187 | 155 | | |
| 112.5 | | | c | 1.52 | 364.00 | 369.00 | 111.0 | 112.5 | 1.52 | 38.1 | 12.5 | 4 | 25 | 19 | 6 | 80 | | 135 | | |
| 115.4 | | | c | 1.68 | 373.00 | 378.50 | 113.7 | 115.4 | 1.68 | 41.9 | 4.2 | 4 | 10 | 7 | 3 | 60 | | - | | |
| 116.8 | | | c | 1.37 | 378.50 | 383.00 | 115.4 | 116.8 | 1.37 | 34.3 | 7.3 | 4 | 21 | 10 | 11 | 70 | | 0 | | |
| 118.3 | | | c | 1.52 | 383.00 | 388.00 | 116.8 | 118.3 | 1.52 | 38.1 | 7.9 | 4 | 15 | 12 | 3 | 32 | 257 | 155 | | |
| 122.9 | | | c | 1.22 | 399.00 | 403.00 | 121.6 | 122.9 | 1.22 | 30.5 | 1.6 | 4 | 6 | 2 | 4 | 45 | | - | | |

HF highly fractured

Grain Size: a = aphanitic; f = fine; m = medium; c = coarse; p = pegmatite.

| | | | |
|---|---|---|---|
| PROJECT: Minto Copper Mine | CLIENT: Sherwood Mining | | BOREHOLE NO.: 05-SWC-046 |
| EBA PROJECT NO.: 1200173 | UTM ZONE: 8 | NORTHING: 6945228.87 | DATE LOGGED: Nov. 28 - 29, 2005 |
| LOCATION: Minto, Yukon | | EASTING: 384592.14 | ELEVATION of COLLAR: 856.2 m |
| | CORE: HQ | BOREHOLE DIP: -63 | DRILL TYPE: Val Dor |
| | | | LOGGED BY: K.E.Kennedy |

PEGMATITIC GRANODIORITE | DATA ENTRY | AUTOMATIC CALCULATION | FOLIATED GRANODIORITE | DYKES

| DEPTH (m) | LITHOLOGY | DESCRIPTION | GRAIN SIZE | INTERVAL (m) | Depth (ft) start | Depth (ft) end | Depth (m) start | Depth (m) end | Interval (m) | Row Height | FRACTURE DENSITY | HARDNESS | DISCONTINUITY DATA: Total No. of Fractures | Natural | Drill Induced | FRACTURE ANGLES a | FRACTURE ANGLES b | FRACTURE ANGLES III | HARDNESS 1 2 3 4 5 | FRACTURE DENSITY (fractures per metre) 5 10 15 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 123.8 | | granodiorite; pegmatitic dyke | c | 0.91 | 403.00 | 406.00 | 122.9 | 123.8 | 0.91 | 22.9 | 6.6 | 4 | 8 | 6 | 2 | 0 | | - | | |
| 126.2 | | granodiorite | c | 2.44 | 406.00 | 414.00 | 123.8 | 126.2 | 2.44 | 61.0 | 0.8 | 4 | 11 | 2 | 9 | 40 | 125 | 0 | | |
| 131.1 | | | c | 1.22 | 426.00 | 430.00 | 129.9 | 131.1 | 1.22 | 30.5 | 2.5 | 4 | 6 | 3 | 3 | 20 | 9 | - | | |
| 132.3 | | | c | 1.22 | 430.00 | 434.00 | 131.1 | 132.3 | 1.22 | 30.5 | 6.6 | 4 | 9 | 8 | 1 | 25 | | 0 | | |
| 134.5 | | | c | 0.91 | 438.00 | 441.00 | 133.5 | 134.5 | 0.91 | 22.9 | 10.9 | 4 | 11 | 10 | 1 | 20 | 15 | 142 | | |
| 137.2 | | | c | 1.52 | 445.00 | 450.00 | 135.7 | 137.2 | 1.52 | 38.1 | 4.6 | 4 | 10 | 7 | 3 | 55 | 222 | - | | |
| 138.9 | | | c | 1.68 | 450.00 | 455.50 | 137.2 | 138.9 | 1.68 | 41.9 | 3.6 | 4 | 6 | 6 | 0 | 55 | 167 | - | | |
| 140.1 | | | c | 1.22 | 455.50 | 459.50 | 138.9 | 140.1 | 1.22 | 30.5 | 5.7 | 4 | 7 | 7 | 0 | 60 | 176 | 0 | | |
| 141.2 | | | c | 1.07 | 459.50 | 463.00 | 140.1 | 141.2 | 1.07 | 26.7 | 5.6 | 4 | 8 | 6 | 2 | 80 | | - | | |
| 145.1 | | | p | 1.52 | 471.00 | 476.00 | 143.6 | 145.1 | 1.52 | 38.1 | 8.5 | 4 | 22 | 13 | 9 | 35 | 224 | - | | |
| 147.6 | | granodiorite | c | 0.91 | 481.00 | 484.00 | 146.6 | 147.6 | 0.91 | 22.9 | 1.1 | 4 | 11 | 1 | 10 | 55 | | - | | |
| 150.6 | | | c | 1.52 | 489.00 | 494.00 | 149.1 | 150.6 | 1.52 | 38.1 | 4.6 | 4 | 21 | 7 | 14 | 40 | | - | | |
| 154.6 | | | c | 1.52 | 502.00 | 507.00 | 153.0 | 154.6 | 1.52 | 38.1 | 3.3 | 4 | 9 | 5 | 4 | 75 | 139 | 135 | | |
| 156.1 | | | c | 1.52 | 507.00 | 512.00 | 154.6 | 156.1 | 1.52 | 38.1 | 13.1 | 4 | 29 | 20 | 9 | 35 | 22 | 60 | | |
| 157.6 | | granodiorite; fault gouge | c | 1.52 | 512.00 | 517.00 | 156.1 | 157.6 | 1.52 | 38.1 | 9.2 | 4 | 14 | 14 | 0 | 55 | 143 | 110 | | |
| 159.1 | | granodiorite | c | 1.52 | 517.00 | 522.00 | 157.6 | 159.1 | 1.52 | 38.1 | 9.2 | 4 | 20 | 14 | 6 | 75 | | 140 | | |
| 162.2 | | | c | 1.52 | 527.00 | 532.00 | 160.7 | 162.2 | 1.52 | 38.1 | 6.6 | 4 | 14 | 10 | 4 | 85 | 190 | 150 | | |
| 167.1 | | | c | 1.83 | 542.00 | 548.00 | 165.2 | 167.1 | 1.83 | 45.7 | 2.7 | 4 | 14 | 5 | 9 | 35 | 110 | 140 | | |
| 168.3 | | | c | 1.22 | 548.00 | 552.00 | 167.1 | 168.3 | 1.22 | 30.5 | 5.7 | 4 | 8 | 7 | 1 | 50 | 165 | 15 | | |
| 171.6 | | | c | 1.52 | 558.00 | 563.00 | 170.1 | 171.6 | 1.52 | 38.1 | 2.0 | 4 | 10 | 3 | 7 | 55 | 199 | - | | |

HF highly fractured

Grain Size: a = aphanitic; f = fine; m = medium; c = coarse; p = pegmatite.

DDH 05SWC - 046
Box 1 to Box 4
Date: Oct 2005
From 8.44 m to 32.15 m
8.53
36
05 SWC 046
05-SWC-046-Bx3
05-SWC-046-Bx3

DDH: 05SWC - 046 Box: 5 to Box: 8
Date: Tue Oct 11 2005 From: 32.80 m To: 50.20 m
05-SWC-046-BX 5
32.80
05-SWC-046-BX 6
05-SWC-046-BX 7
05-SWC-046-BX 8
50.2

DDH: 05SWC
Date: Oct 12, 2005
Box: 7 to Box: 12
From: 50.20 m to: 69.80 m
05-SWC-046 BX 9
50.2
05-SWC-046 BX10
SWC 046 BX 11
05-SWC-046-BX12
69.8

DDH: 05SWC 046 Box: 13 to Box: 16
Date: Oct 12, 2005 From: 69.80 m To: 89.30 m
05-SWC-046-BX13
69.80
05-SWC-046-BX14
05-SWC-046-BX15
05-SWC-046-BX16
893

DDH: 05SWC 046 Bc 17 to Box: 20
Date: Oct 16. 2005 From: 89.3m To: 106.45m
05-SWC-046-Bx-18
05-SWC-046-Bx-19
05-SWC-046-Bx-20
1030m
106.45

DDH: 05SWC 046 Box: 21 To Box: 24
Date: Oct 16. 2005 From: 98.45 m To: 122.43 m
05. SWC. 046. BX 21
05. SWC. 046. BX 22
05. SWC. 046. BX 23
116.74
118.26
05. SWC. 046. BX 24
122.43

DDH: 05SWC 046 Box: 25 to Box: 28
Date: Oct 15. 2005 From 122.93 m To: 139.03 m
403
122.93
05-SWC-046-Bx25
05-SWC-046-Bx26
05-SWC-046-Bx27
05-SWC-046-Bx28
139.03

DDH: 05SWC 046 Box: 29 to Box: 33
Date: Oct 15, 2005 From: 139.03m To: 155.25m
05-SWC-046 BOX 29
139.03
05-SWC-046 BOX 30
143.56
05-SWC-046-BOX 31
05-SWC-046 BOX 32
155.25

DDH: 05SWC 046 Box: 29 to Box: 33
Date: Oct 15. 2005 From: 155.25m To: 170.85m
05-SWC-046-BX33
155.25
522
552
170.85

| | | | |
|---|---|---|---|
| PROJECT: Minto Copper Mine | CLIENT: Sherwood Mining | | BOREHOLE NO.: **05-SWC-047** |
| EBA PROJECT NO.: 1200173 | UTM ZONE: 8 | NORTHING: 6945077.15 | DATE LOGGED: Dec. 06-08, 2005 |
| LOCATION: Minto, Yukon | | EASTING: 384511.84 | ELEVATION of COLLAR: 835.4 m |
| | CORE: HQ | BOREHOLE DIP: -60 | DRILL TYPE: Val Dor |
| | | | LOGGED BY: K.E.Kennedy |

PEGMATITIC GRANODIORITE | DATA ENTRY | AUTOMATIC CALCULATION | FOLIATED GRANODIORITE | DYKES

| DEPTH (m) | LITHOLOGY | DESCRIPTION | GRAIN SIZE | INTERVAL (m) | Depth (ft) start | Depth (ft) end | Depth (m) start | Depth (m) end | Interval (m) | Row Height | FRACTURE DENSITY | HARDNESS | DISCONTINUITY DATA: Total No. of Fractures | Natural | Drill Induced | FRACTURE ANGLES a | FRACTURE ANGLES b | FRACTURE ANGLES III |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | overburden; weathered granodiorite | c | 14.43 | 0.00 | | 0.0 | 14.4 | 14.43 | 360.8 | ##### | 1.0 | HF | HF | 0.0 | - | - | - |
| 15.9 | | granodiorite | c | 1.42 | | | 14.4 | 15.9 | 1.42 | 35.5 | 4.9 | 3 | 10 | 7 | 3 | 75 | 245 | 30 |
| 16.0 | | weathered granodiorite | c | 0.15 | | | 15.9 | 16.0 | 0.15 | 3.8 | 0.0 | 1 | HF | | 0 | - | - | - |
| 16.9 | | granodiorite | c | 0.88 | | | 16.0 | 16.9 | 0.88 | 22.0 | 6.8 | 3 | 11 | 6 | 4 | 50 | 250 | 155 |
| 17.8 | | foliated granodiorite | c | 0.90 | | | 16.9 | 17.8 | 0.90 | 22.5 | 27.8 | 2 | 25 | 25 | 0 | 140 | 30 | - |
| 18.2 | | | c | 0.40 | | | 17.8 | 18.2 | 0.40 | 10.0 | 0.0 | 1 | HF | | 0 | - | - | - |
| 19.1 | | | c | 0.90 | | | 18.2 | 19.1 | 0.90 | 22.5 | 23.3 | 2 | 29 | 21 | 8 | 50 | 300 | 80 |
| 19.8 | | | c | 0.73 | | | 19.1 | 19.8 | 0.73 | 18.3 | 0.0 | 1 | HF | | 0 | - | - | - |
| 20.5 | | | c | 0.69 | | | 19.8 | 20.5 | 0.69 | 17.3 | 10.1 | 2 | 15 | 7 | 8 | 165 | - | - |
| 21.9 | | pegmatitic diorite | c/p | 1.35 | | | 20.5 | 21.9 | 1.35 | 33.8 | 3.0 | 3 | 11 | 4 | 7 | 155 | - | - |
| 22.1 | | fault zone; pegmatitic dyke | a/p | 0.25 | | | 21.9 | 22.1 | 0.25 | 6.3 | 0.0 | 1 | HF | | 0 | | - | - |
| 23.0 | | pegmatitic diorite | c/p | 0.94 | | | 22.1 | 23.0 | 0.94 | 23.5 | 2.1 | 3 | 8 | 2 | 6 | 40 | 240 | - |
| 23.4 | | foliated granodiorite | c | 0.33 | | | 23.0 | 23.4 | 0.33 | 8.3 | 60.6 | 1 | 20 | 20 | 0 | 125 | 90 | - |
| 24.5 | | granodiorite | c | 1.13 | | | 23.4 | 24.5 | 1.13 | 28.3 | 8.8 | 2 | 21 | 10 | 11 | 60 | - | - |
| 25.0 | | foliated granodiorite | c | 0.50 | | | 24.5 | 25.0 | 0.50 | 12.5 | 44.0 | 1 | 22 | 22 | 0 | 125 | - | - |
| 26.3 | | granodiorite | c | 1.28 | | | 25.0 | 26.3 | 1.28 | 32.0 | 7.0 | 2 | 18 | 9 | 9 | 30 | 280 | - |
| 30.7 | | foliated granodiorite | p | 4.37 | | | 26.3 | 30.7 | 4.37 | 109.3 | 12.8 | 2 | 69 | 56 | 13 | 40 | 120 | 138 |
| 31.5 | | pegmatitic dyke | c | 0.84 | | | 30.7 | 31.5 | 0.84 | 21.0 | 0.0 | 3 | HF | | HF | 40 | - | - |
| 35.7 | | granodiorite | c | 4.17 | | | 31.5 | 35.7 | 4.17 | 104.3 | 6.2 | 3 | 35 | 26 | 9 | 110 | 130 | 155 |
| 36.7 | | foliated granodiorite | c | 1.00 | | | 35.7 | 36.7 | 1.00 | 25.0 | 23.0 | 1 | 25 | 23 | 2 | 0 | - | - |
| 37.2 | | granodiorite | c | 0.53 | | | 36.7 | 37.2 | 0.53 | 13.3 | 34.0 | 2 | 23 | 18 | 5 | 145 | 35 | - |
| 38.7 | | | c | 1.52 | | | 37.2 | 38.7 | 1.52 | 38.0 | 3.3 | 3 | 9 | 5 | 4 | 135 | 55 | - |
| 40.2 | | | c | 1.52 | | | 38.7 | 40.2 | 1.52 | 38.0 | 1.3 | 3 | 3 | 2 | 1 | 35 | 127 | - |

HARDNESS 1 2 3 4 5 | FRACTURE DENSITY (fractures per metre) 5 10 15 20

HF highly fractured

Grain Size: a = aphanitic; f = fine; m = medium; c = coarse; p = pegmatite.

| | | | |
|---|---|---|---|
| PROJECT: Minto Copper Mine | CLIENT: Sherwood Mining | | BOREHOLE NO.: 05-SWC-047 |
| EBA PROJECT NO.: 1200173 | UTM ZONE: 8 | NORTHING: 6945077.15 | DATE LOGGED: Dec. 06-08, 2005 |
| LOCATION: Minto, Yukon | | EASTING: 384511.84 | ELEVATION of COLLAR: 835.4 m |
| | CORE: HQ | BOREHOLE DIP: -60 | DRILL TYPE: Val Dor |
| | | | LOGGED BY: K.E.Kennedy |

PEGMATITIC GRANODIORITE | DATA ENTRY | AUTOMATIC CALCULATION | FOLIATED GRANODIORITE | DYKES

| DEPTH (m) | LITHOLOGY | DESCRIPTION | GRAIN SIZE | INTERVAL (m) | Depth (ft) start | Depth (ft) end | Depth (m) start | Depth (m) end | Interval (m) | Row Height | FRACTURE DENSITY | HARDNESS | DISCONTINUITY DATA: Total No. of Fractures | Natural | Drill Induced | FRACTURE ANGLES a | FRACTURE ANGLES b | FRACTURE ANGLES III | HARDNESS 1 2 3 4 5 | FRACTURE DENSITY (fractures per metre) 5 10 15 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 41.8 | | | c | 1.53 | | | 40.2 | 41.8 | 1.53 | 38.3 | 2.6 | 3 | 7 | 4 | 3 | 65 | 17 | - | | |
| 42.1 | | pegmatitic dyke | c | 0.37 | | | 41.8 | 42.1 | 0.37 | 9.3 | 2.7 | 3 | 2 | 1 | 1 | 20 | | - | | |
| 42.2 | | granodiorite | p | 0.05 | | | 42.1 | 42.2 | 0.05 | 1.2 | 0.0 | 3 | 0 | 0 | 0 | | - | - | | |
| 43.3 | | | c | 1.10 | | | 42.2 | 43.3 | 1.10 | 27.5 | 2.7 | 3 | 8 | 3 | 5 | 20 | 45 | - | | |
| 44.8 | | | c | 1.53 | | | 43.3 | 44.8 | 1.53 | 38.3 | 3.3 | 3 | 8 | 5 | 3 | 135 | 70 | - | | |
| 46.3 | | | c | 1.52 | | | 44.8 | 46.3 | 1.52 | 38.0 | 5.3 | 3 | 10 | 8 | 2 | 0 | 270 | 50 | | |
| 47.9 | | | c | 1.52 | | | 46.3 | 47.9 | 1.52 | 38.0 | 2.6 | 3 | 9 | 4 | 5 | 160 | 35 | - | | |
| 49.4 | | | c | 1.53 | | | 47.9 | 49.4 | 1.53 | 38.3 | 1.3 | 3 | 8 | 2 | 6 | 52 | - | - | | |
| 50.9 | | | c | 1.52 | | | 49.4 | 50.9 | 1.52 | 38.0 | 4.6 | 3 | 10 | 7 | 3 | 0 | 275 | - | | |
| 52.4 | | | c | 1.53 | | | 50.9 | 52.4 | 1.53 | 38.3 | 3.9 | 3 | 10 | 6 | 4 | 17 | 265 | - | | |
| 53.4 | | | c | 0.99 | | | 52.4 | 53.4 | 0.99 | 24.8 | 5.1 | 3 | 7 | 5 | 2 | 40 | 80 | - | | |
| 53.7 | | weathered granodiorite | c | 0.28 | | | 53.4 | 53.7 | 0.28 | 7.0 | 0.0 | 3 | HF | | 0 | 115 | - | - | | |
| 55.5 | | granodiorite | c | 1.77 | | | 53.7 | 55.5 | 1.77 | 44.2 | 3.4 | 2 | 11 | 6 | 5 | 65 | 135 | 0 | | |
| 58.4 | | | c | 2.95 | | | 55.5 | 58.4 | 2.95 | 73.8 | 2.4 | 3 | 16 | 7 | 9 | 30 | - | - | | |
| 58.6 | | weathered granodiorite | c | 0.18 | | | 58.4 | 58.6 | 0.18 | 4.5 | 0.0 | 3 | HF | | 0 | 135 | - | - | | |
| 60.1 | | granodiorite | p | 1.45 | | | 58.6 | 60.1 | 1.45 | 36.2 | 4.1 | 1.5 | 9 | 6 | 3 | 106 | 65 | - | | |
| 61.6 | | | c | 1.52 | | | 60.1 | 61.6 | 1.52 | 38.0 | 5.9 | 3 | 21 | 9 | 12 | 125 | - | - | | |
| 63.1 | | | c | 1.52 | | | 61.6 | 63.1 | 1.52 | 38.0 | 2.6 | 3 | 14 | 4 | 10 | 140 | 47 | - | | |
| 63.7 | | | c | 0.64 | | | 63.1 | 63.7 | 0.64 | 16.0 | 4.7 | 3 | 3 | 3 | 0 | 55 | 0 | 32 | | |
| 66.1 | | | c | 2.41 | | | 63.7 | 66.1 | 2.41 | 60.3 | 4.1 | 3 | 31 | 10 | 21 | 40 | 255 | - | | |
| 67.7 | | foliated granodiorite | c | 1.53 | | | 66.1 | 67.7 | 1.53 | 38.3 | 4.6 | 3 | 11 | 7 | 4 | 55 | 160 | - | | |
| 69.2 | | | c | 1.52 | | | 67.7 | 69.2 | 1.52 | 38.0 | 2.6 | 3 | 14 | 4 | 10 | 122 | 10 | - | | |
| 70.7 | | | c | 1.52 | | | 69.2 | 70.7 | 1.52 | 38.0 | 3.3 | 3 | 11 | 5 | 6 | 170 | 50 | - | | |
| 72.2 | | | c | 1.53 | | | 70.7 | 72.2 | 1.53 | 38.3 | 5.2 | 3 | 29 | 8 | 21 | 27 | 286 | 130 | | |
| 74.5 | | | c | 2.27 | | | 72.2 | 74.5 | 2.27 | 56.8 | 25.1 | 2 | 77 | 57 | 20 | 90 | 175 | 122 | | |
| 76.8 | | granodiorite | c | 2.30 | | | 74.5 | 76.8 | 2.30 | 57.5 | 3.5 | 3 | 18 | 8 | 11 | 85 | 140 | - | | |
| 78.3 | | | c/p | 1.52 | | | 76.8 | 78.3 | 1.52 | 38.0 | 4.6 | 3 | 13 | 7 | 6 | 120 | 85 | 10 | | |
| 80.1 | | | c/p | 1.73 | | | 78.3 | 80.1 | 1.73 | 43.3 | 8.7 | 3 | 25 | 15 | 10 | 125 | 52 | 85 | | |
| 80.3 | | pegmatitic dyke | c/p | 0.27 | | | 80.1 | 80.3 | 0.27 | 6.7 | 3.7 | 3 | 2 | 1 | 1 | 140 | - | - | | |

HF highly fractured

Grain Size: a = aphanitic; f = fine; m = medium; c = coarse; p = pegmatite.

| | | | |
|---|---|---|---|
| PROJECT: Minto Copper Mine | CLIENT: Sherwood Mining | | BOREHOLE NO.: 05-SWC-047 |
| EBA PROJECT NO.: 1200173 | UTM ZONE: 8 | NORTHING: 6945077.15 | DATE LOGGED: Dec. 06-08, 2005 |
| LOCATION: Minto, Yukon | | EASTING: 384511.84 | ELEVATION of COLLAR: 835.4 m |
| | CORE: HQ | BOREHOLE DIP: -60 | DRILL TYPE: Val Dor |
| | | | LOGGED BY: K.E.Kennedy |

PEGMATITIC GRANODIORITE | DATA ENTRY | AUTOMATIC CALCULATION | FOLIATED GRANODIORITE | DYKES

| DEPTH (m) | LITHOLOGY | DESCRIPTION | GRAIN SIZE | INTERVAL (m) | Depth (ft) start | Depth (ft) end | Depth (m) start | Depth (m) end | Interval (m) | Row Height | FRACTURE DENSITY | HARDNESS | DISCONTINUITY DATA: Total No. of Fractures | Natural | Drill Induced | FRACTURE ANGLES a | FRACTURE ANGLES b | FRACTURE ANGLES III | HARDNESS 1 2 3 4 5 | FRACTURE DENSITY (fractures per metre) 5 10 15 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 86.0 | | granodiorite | p | 5.62 | | | 80.3 | 86.0 | 5.62 | 140.5 | 3.6 | 3 | 33 | 20 | 13 | 40 | 253 | 120 | | |
| 87.5 | | | c/p | 1.52 | | | 86.0 | 87.5 | 1.52 | 38.0 | 2.0 | 3 | 12 | 3 | 9 | 30 | 271 | - | | |
| 89.0 | | | c/p | 1.53 | | | 87.5 | 89.0 | 1.53 | 38.3 | 3.9 | 3 | 8 | 6 | 2 | 133 | 0 | - | | |
| 90.8 | | | c | 1.82 | | | 89.0 | 90.8 | 1.82 | 45.5 | 5.5 | 3 | 14 | 10 | 4 | 50 | 140 | 95 | | |
| 92.4 | | | c | 1.53 | | | 90.8 | 92.4 | 1.53 | 38.3 | 9.2 | 3 | 21 | 14 | 7 | 70 | 160 | | | |
| 93.9 | | | c | 1.52 | | | 92.4 | 93.9 | 1.52 | 38.0 | 7.9 | 3 | 19 | 12 | 7 | 120 | 70 | 145 | | |
| 95.5 | | | c | 1.63 | | | 93.9 | 95.5 | 1.63 | 40.7 | 52.1 | 3 | 27 | 85 | 2 | 110 | - | - | | |
| 95.7 | | quartz vien | p | 0.20 | | | 95.5 | 95.7 | 0.20 | 5.0 | 0.0 | 3 | 0 | 0 | 0 | - | - | - | | |
| 98.4 | | granodiorite | c/p | 2.74 | | | 95.7 | 98.4 | 2.74 | 68.5 | 2.6 | 3 | 18 | 7 | 11 | 105 | 60 | 140 | | |
| 100.0 | | | c/p | 1.53 | | | 98.4 | 100.0 | 1.53 | 38.3 | 4.6 | 3 | 10 | 7 | 3 | 22 | 285 | | | |
| 101.5 | | | c/p | 1.52 | | | 100.0 | 101.5 | 1.52 | 38.0 | 3.9 | 3 | 26 | 6 | 20 | 40 | 243 | 0 | | |
| 103.0 | | | c/p | 1.53 | | | 101.5 | 103.0 | 1.53 | 38.3 | 3.9 | 3 | 8 | 6 | 2 | 82 | - | - | | |
| 104.9 | | | c/p | 1.85 | | | 103.0 | 104.9 | 1.85 | 46.3 | 3.2 | 3 | 9 | 6 | 3 | 142 | 39 | - | | |
| 107.6 | | foliated granodiorite | c | 2.72 | | | 104.9 | 107.6 | 2.72 | 68.0 | 4.0 | 2 | 44 | 11 | 33 | 140 | 40 | - | | |
| 109.1 | | | c | 1.53 | | | 107.6 | 109.1 | 1.53 | 38.3 | 5.9 | 2 | 15 | 9 | 6 | 115 | 60 | 10 | | |
| 110.6 | | | c | 1.52 | | | 109.1 | 110.6 | 1.52 | 38.0 | 10.5 | 2 | 30 | 16 | 14 | 55 | 65 | 145 | | |
| 112.2 | | | c | 1.52 | | | 110.6 | 112.2 | 1.52 | 38.0 | 14.5 | 2 | 35 | 22 | 13 | 40 | 130 | - | | |
| 113.7 | | | c | 1.53 | | | 112.2 | 113.7 | 1.53 | 38.3 | 14.4 | 2 | 31 | 22 | 9 | 145 | 60 | - | | |
| 115.2 | | granodiorite | c/p | 1.52 | | | 113.7 | 115.2 | 1.52 | 38.0 | 9.2 | 3 | 18 | 14 | 4 | 140 | - | - | | |
| 116.7 | | | c/p | 1.52 | | | 115.2 | 116.7 | 1.52 | 38.0 | 12.5 | 3 | 21 | 19 | 2 | 30 | 267 | 116 | | |
| 118.3 | | | c/p | 1.53 | | | 116.7 | 118.3 | 1.53 | 38.3 | 18.3 | 2 | 29 | 28 | 1 | 87 | 142 | - | | |
| 119.4 | | | c/p | 1.16 | | | 118.3 | 119.4 | 1.16 | 29.0 | 23.3 | 2 | 33 | 27 | 6 | 100 | 65 | 67 | | |
| 121.3 | | foliated granodiorite | c | 1.88 | | | 119.4 | 121.3 | 1.88 | 47.0 | 0.0 | 2 | HF | | 0 | 72 | 90 | - | | |

HF highly fractured

Grain Size: a = aphanitic; f = fine; m = medium; c = coarse; p = pegmatite.

| | | | |
|---|---|---|---|
| PROJECT: Minto Copper Mine | CLIENT: Sherwood Mining | | BOREHOLE NO.: 05-SWC-047 |
| EBA PROJECT NO.: 1200173 | UTM ZONE: 8 | NORTHING: 6945077.15 | DATE LOGGED: Dec. 06-08, 2005 |
| LOCATION: Minto, Yukon | | EASTING: 384511.84 | ELEVATION of COLLAR: 835.4 m |
| | CORE: HQ | BOREHOLE DIP: -60 | DRILL TYPE: Val Dor |
| | | | LOGGED BY: K.E.Kennedy |

PEGMATITIC GRANODIORITE | DATA ENTRY | AUTOMATIC CALCULATION | FOLIATED GRANODIORITE | DYKES

| DEPTH (m) | LITHOLOGY | DESCRIPTION | GRAIN SIZE | INTERVAL (m) | Depth (ft) start | Depth (ft) end | Depth (m) start | Depth (m) end | Interval (m) | Row Height | FRACTURE DENSITY | HARDNESS | DISCONTINUITY DATA: Total No. of Fractures | Natural | Drill Induced | FRACTURE ANGLES a | FRACTURE ANGLES b | FRACTURE ANGLES III | HARDNESS 1 2 3 4 5 | FRACTURE DENSITY (fractures per metre) 5 10 15 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 122.8 | | | c | 1.53 | | | 121.3 | 122.8 | 1.53 | 38.3 | 7.8 | 2 | 17 | 12 | 5 | 145 | 40 | 100 | | |
| 124.4 | | | c | 1.52 | | | 122.8 | 124.4 | 1.52 | 38.0 | 16.4 | 2 | 36 | 25 | 11 | 135 | 50 | 87 | | |
| 125.9 | | | c | 1.53 | | | 124.4 | 125.9 | 1.53 | 38.3 | 12.4 | 2 | 35 | 19 | 16 | 80 | 145 | 50 | | |
| 127.4 | | | c | 1.53 | | | 125.9 | 127.4 | 1.53 | 38.3 | 13.1 | 2 | 37 | 20 | 17 | 50 | 244 | 85 | | |
| 128.9 | | | c | 1.51 | | | 127.4 | 128.9 | 1.51 | 37.7 | 22.5 | 2 | 39 | 34 | 5 | 70 | 268 | 40 | | |
| 130.5 | | | c | 1.53 | | | 128.9 | 130.5 | 1.53 | 38.3 | 22.2 | 2 | 41 | 34 | 7 | 45 | 301 | - | | |
| 132.0 | | | c | 1.52 | | | 130.5 | 132.0 | 1.52 | 38.0 | 27.6 | 3 | 47 | 42 | 5 | 34 | 270 | - | | |
| 133.5 | | | c | 1.53 | | | 132.0 | 133.5 | 1.53 | 38.3 | 13.1 | 3 | 26 | 20 | 6 | 128 | 40 | 162 | | |
| 135.7 | | | c | 2.23 | | | 133.5 | 135.7 | 2.23 | 55.7 | 11.7 | 3 | 36 | 26 | 13 | 130 | 15 | 60 | | |
| 136.4 | | mafic intrusive (volcanic?) | c | 0.67 | | | 135.7 | 136.4 | 0.67 | 16.8 | 0.0 | 2 | HF | | HF | 110 | - | - | | |
| 138.1 | | foliated granodiorite | c | 1.67 | | | 136.4 | 138.1 | 1.67 | 41.7 | 0.0 | 2 | HF | | HF | 25 | - | - | | |
| 139.6 | | | c | 1.53 | | | 138.1 | 139.6 | 1.53 | 38.3 | 15.0 | 3 | 38 | 23 | 15 | 40 | 270 | - | | |
| 141.1 | | | c | 1.51 | | | 139.6 | 141.1 | 1.51 | 37.8 | 9.3 | 3 | 27 | 14 | 13 | 50 | 143 | - | | |
| 142.6 | | | c | 1.53 | | | 141.1 | 142.6 | 1.53 | 38.2 | 6.5 | 3 | 18 | 10 | 8 | 30 | 290 | - | | |
| 144.2 | | | c | 1.53 | | | 142.6 | 144.2 | 1.53 | 38.3 | 13.1 | 3 | 34 | 20 | 14 | 28 | 247 | 112 | | |
| 145.7 | | | c | 1.52 | | | 144.2 | 145.7 | 1.52 | 38.0 | 14.5 | 3 | 30 | 22 | 8 | 49 | 22 | 165 | | |
| 146.2 | | | c | 0.51 | | | 145.7 | 146.2 | 0.51 | 12.7 | 5.9 | 3 | 4 | 3 | 1 | 80 | 160 | - | | |
| 146.4 | | fault gouge | a | 0.16 | | | 146.2 | 146.4 | 0.16 | 4.0 | 0.0 | 1 | HF | | 0 | 80 | - | - | | |
| 147.2 | | foliated granodiorite | c | 0.85 | | | 146.4 | 147.2 | 0.85 | 21.2 | 14.1 | 3 | 23 | 12 | 11 | 22 | 248 | - | | |
| 148.7 | | | c | 1.53 | | | 147.2 | 148.7 | 1.53 | 38.3 | 3.3 | 3 | 15 | 5 | 10 | 135 | 30 | - | | |
| 150.6 | | | c | 1.82 | | | 148.7 | 150.6 | 1.82 | 45.5 | 6.6 | 3 | 16 | 12 | 4 | 70 | 10 | - | | |
| 153.9 | | mafic intrusive (volcanic?) | a | 3.35 | | | 150.6 | 153.9 | 3.35 | 83.7 | 0.0 | 5 | 12 | 0 | 12 | 10 | - | - | | |
| 156.4 | | foliated granodiorite | c | 2.45 | | | 153.9 | 156.4 | 2.45 | 61.3 | 3.3 | 3 | 24 | 8 | 16 | 135 | 100 | 30 | | |
| 157.9 | | | c | 1.53 | | | 156.4 | 157.9 | 1.53 | 38.2 | 1.3 | 3 | 9 | 2 | 7 | 80 | 100 | 0 | | |
| 159.4 | | | c | 1.52 | | | 157.9 | 159.4 | 1.52 | 38.0 | 0.0 | 2 | HF | | 0 | 140 | 55 | 0 | | |
| 160.9 | | | c | 1.52 | | | 159.4 | 160.9 | 1.52 | 38.0 | 0.0 | 2 | HF | | 0 | 90 | 120 | 10 | | |
| 162.5 | | | c | 1.53 | | | 160.9 | 162.5 | 1.53 | 38.3 | 9.8 | 3 | 29 | 15 | 14 | 105 | 0 | - | | |

HF highly fractured

Grain Size: a = aphanitic; f = fine; m = medium; c = coarse; p = pegmatite.

| | | | |
|---|---|---|---|
| PROJECT: Minto Copper Mine | CLIENT: Sherwood Mining | | BOREHOLE NO.: 05-SWC-047 |
| EBA PROJECT NO.: 1200173 | UTM ZONE: 8 | NORTHING: 6945077.15 | DATE LOGGED: Dec. 06-08, 2005 |
| LOCATION: Minto, Yukon | CORE: HQ | EASTING: 384511.84 | ELEVATION of COLLAR: 835.4 m |
| | | BOREHOLE DIP: -60 | DRILL TYPE: Val Dor |
| | | | LOGGED BY: K.E.Kennedy |

PEGMATITIC GRANODIORITE | DATA ENTRY | AUTOMATIC CALCULATION | FOLIATED GRANODIORITE | DYKES

| DEPTH (m) | LITHOLOGY | DESCRIPTION | GRAIN SIZE | INTERVAL (m) | Depth (ft) start | Depth (ft) end | Depth (m) start | Depth (m) end | Interval (m) | Row Height | FRACTURE DENSITY | HARDNESS | DISCONTINUITY DATA: Total No. of Fractures | Natural | Drill Induced | FRACTURE ANGLES a | FRACTURE ANGLES b | FRACTURE ANGLES III |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 164.0 | | | c | 1.52 | | | 162.5 | 164.0 | 1.52 | 38.0 | 11.8 | 3 | 25 | 18 | 7 | 20 | 291 | - |
| 165.5 | | | c | 1.52 | | | 164.0 | 165.5 | 1.52 | 38.0 | 7.9 | 3 | 22 | 12 | 10 | 125 | - | - |
| 166.4 | | | c | 0.85 | | | 165.5 | 166.4 | 0.85 | 21.2 | 0.0 | 2 | HF | | HF | - | - | - |
| 167.0 | | | c | 0.68 | | | 166.4 | 167.0 | 0.68 | 17.0 | 19.1 | 3 | 17 | 13 | 4 | 125 | 170 | - |
| 168.6 | | | c | 1.52 | | | 167.0 | 168.6 | 1.52 | 38.0 | 10.5 | 3 | 27 | 16 | 11 | 60 | 110 | 130 |
| 170.1 | | | c | 1.53 | | | 168.6 | 170.1 | 1.53 | 38.3 | 17.0 | 3 | 44 | 26 | 18 | 20 | 287 | - |
| 172.1 | | | c | 2.04 | | | 170.1 | 172.1 | 2.04 | 51.0 | 12.3 | 3 | 31 | 25 | 6 | 0 | 273 | 100 |
| 172.8 | | mafic intrusive (volcanic?) | a | 0.70 | | | 172.1 | 172.8 | 0.70 | 17.5 | 7.1 | 5 | 8 | 5 | 3 | 0 | 282 | - |
| 174.7 | | foliated granodiorite | c | 1.83 | | | 172.8 | 174.7 | 1.83 | 45.8 | 13.1 | 3 | 29 | 24 | 5 | 80 | 12 | 110 |
| 176.3 | | | c | 1.60 | | | 174.7 | 176.3 | 1.60 | 40.0 | 2.5 | 3 | 13 | 4 | 9 | 40 | 234 | - |
| 177.7 | | | c | 1.45 | | | 176.3 | 177.7 | 1.45 | 36.2 | 3.4 | 3 | 20 | 5 | 15 | 100 | 160 | 82 |
| 180.0 | | | c | 2.30 | | | 177.7 | 180.0 | 2.30 | 57.5 | 3.0 | 3 | 13 | 7 | 6 | 85 | 145 | 120 |

HARDNESS 1 2 3 4 5

FRACTURE DENSITY (fractures per metre) 5 10 15 20

HF highly fractured

Grain Size: a = aphanitic; f = fine; m = medium; c = coarse; p = pegmatite.

DDH 05SWC
Box 1 To Box 4
Date: Oct 12, 2005
From 0.00 m To 37.20 m
0.0 m
92
37.2

DDH: 05SWC 047
Box: 5 to Box: 8
Date: Oct 12, 2005
From: 37.20m To: 59.70m
37.20
05-SWC-047 BOX 6
172
177
05-SWC 047 BOX 8
182
59.70

DDH: 05SWC 047 Box: 9 to Box: 12
Date: Oct 15, 2005 From: 59.70 m To: 81.95 m
59.70
65.19
67.67
73.76
75.29
78.38
79.86
81.38
81.95

DDH: 05SWC 047 Box: 13 to Box: 16
Date: Oct 15, 2005 From: 81.95 m To: 107.14 m
05-SWC-047 BOX 13
282
05-SWC-047 BX 14
05-SWC-047 BX 15
05-SWC-047 BX 16
338
106.07
107.14

DDH: 05SWC 047 Box: 16 to Box: 19
Date: Oct 15. 2005 From: 107.14m To: 128.70m
05-SWC-47 BX 17
05-SWC-047 BOX 18
378
05-SWC-047 BOX 19
398
05-SWC-047 BOX 20
128.70

DDH 05SWC 047 Box 1 to Box 24
Date: Oct 15, 2005 From: 28.70m To: 148.98m
05-SWC-047-BX-21
05-SWC-047-BX-22
05-SWC-047-BX-23
05-SWC-047-BX-24
423
428
443
485

DDH: 05SWC 047
Box: 25 to Box: 28
Date: Oct 10 2005
From 148.70m to 171.0 m
153.31
05-SWC 047 BX 26
154.84
156.36
168.51
05. SWC. 044 - BX 29
153.98
171.0m

DDH: 05SWC 047
Box: 29 to Box: 30
Date: Oct 16. 2005
From: 171.00 m To: 180.00 m
05-SWC-047 Box 29
05-SWC-047 Box 30
176.25
180.0
EOH
180.00

| | | | |
|---|---|---|---|
| PROJECT: Minto Copper Mine | CLIENT: Sherwood Mining | | BOREHOLE NO.: 05-SWC-048 |
| EBA PROJECT NO.: 1200173 | UTM ZONE: 8 | NORTHING: 6945411 | DATE LOGGED: Oct. 28-31, 2005 |
| LOCATION: Minto, Yukon | CORE: HQ | EASTING: 384585 | ELEVATION of COLLAR: 902 m |
| | | BOREHOLE DIP: -50 | DRILL TYPE: Val Dor |
| | | | LOGGED BY: K.E.Kennedy |

PEGMATITIC GRANODIORITE | DATA ENTRY | AUTOMATIC CALCULATION | FOLIATED GRANODIORITE | DYKES

| DEPTH (m) | LITHOLOGY | DESCRIPTION | GRAIN SIZE | INTERVAL (m) | Depth (ft) start | Depth (ft) end | Depth (m) start | Depth (m) end | Interval (m) | Row Height | FRACTURE DENSITY | HARDNESS | DISCONTINUITY DATA: Total No. of Fractures | Natural | Drill Induced | FRACTURE ANGLES a | FRACTURE ANGLES b | FRACTURE ANGLES III | HARDNESS 1 2 3 4 5 | FRACTURE DENSITY (fractures per metre) 5 10 15 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | overburden; not in box | | 3.66 | 0.00 | 12.00 | 0.0 | 3.7 | 3.66 | 91.5 | 0.0 | | | | | | | | | |
| 5.2 | | granodiorite | c | 1.52 | 12.00 | 17.00 | 3.7 | 5.2 | 1.52 | 38.1 | 9.2 | 3 | 25 | 14 | 11 | 140 | - | - | | |
| 6.1 | | | c | 0.91 | 17.00 | 20.00 | 5.2 | 6.1 | 0.91 | 22.9 | 0.0 | 3 | HF | | 3 | 140 | - | - | | |
| 6.4 | | weathered granodiorite | m | 0.30 | 20.00 | 21.00 | 6.1 | 6.4 | 0.30 | 7.6 | 0.0 | 1 | HF | | | - | - | - | | |
| 7.2 | | granodiorite | c | 0.76 | 21.00 | 23.50 | 6.4 | 7.2 | 0.76 | 19.1 | 14.4 | 3 | 13 | 11 | 2 | 130 | 15 | - | | |
| 7.6 | | weathered granodiorite | m | 0.46 | 23.50 | 25.00 | 7.2 | 7.6 | 0.46 | 11.4 | 0.0 | 1 | HF | | | - | - | - | | |
| 8.5 | | granodiorite | c | 0.91 | 25.00 | 28.00 | 7.6 | 8.5 | 0.91 | 22.9 | 9.8 | 3 | 9 | 9 | 0 | 135 | 325 | - | | |
| 8.6 | | weathered granodiorite | m | 0.30 | 28.00 | 29.00 | 8.5 | 8.8 | 0.30 | 7.6 | 0.0 | 1 | HF | | | - | - | - | | |
| 8.9 | | feldspar dyke | p | 0.05 | 29.00 | 29.15 | 8.8 | 8.9 | 0.05 | 1.1 | 0.0 | 4 | HF | | 3 | - | - | - | | |
| 12.2 | | granodiorite | c | 3.31 | 29.15 | 40.00 | 8.9 | 12.2 | 3.31 | 82.7 | 15.4 | 3 | 59 | 51 | 8 | 35 | 15 | 180 | | |
| 12.5 | | feldspar dyke | p | 0.30 | 40.00 | 41.00 | 12.2 | 12.5 | 0.30 | 7.6 | 13.1 | 4 | 5 | 4 | 1 | 55 | 195 | - | | |
| 13.0 | | granodiorite | c | 0.46 | 41.00 | 42.50 | 12.5 | 13.0 | 0.46 | 11.4 | 21.9 | 2 | 13 | 10 | 3 | 340 | 25 | - | | |
| 18.3 | | | c | 5.34 | 42.50 | 60.00 | 13.0 | 18.3 | 5.34 | 133.4 | 7.3 | 3 | 54 | 39 | 15 | 45 | 200 | 225 | | |
| 22.9 | | | c | 4.57 | 60.00 | 75.00 | 18.3 | 22.9 | 4.57 | 114.3 | 24.7 | 2 | 124 | 113 | 11 | 25 | 135 | - | | |
| 26.2 | | | c | 3.35 | 75.00 | 86.00 | 22.9 | 26.2 | 3.35 | 83.8 | 6.3 | 3 | 31 | 21 | 10 | 130 | 45 | - | | |
| 27.9 | | weathered granodiorite | c | 1.68 | 86.00 | 91.50 | 26.2 | 27.9 | 1.68 | 41.9 | 0.0 | 2 | HF | | 2 | 115 | 50 | - | | |
| 29.6 | | granodiorite | c | 1.74 | 91.50 | 97.20 | 27.9 | 29.6 | 1.74 | 43.4 | 6.3 | 3 | 14 | 11 | 3 | 75 | 210 | - | | |
| 29.9 | | dioritic dyke | m | 0.24 | 97.20 | 98.00 | 29.6 | 29.9 | 0.24 | 6.1 | 4.1 | 3 | 3 | 1 | 2 | 115 | - | - | | |
| 33.1 | | granodiorite | c | 3.20 | 98.00 | 108.50 | 29.9 | 33.1 | 3.20 | 80.0 | 3.1 | 3 | 16 | 10 | 6 | 10 | 30 | 140 | | |
| 33.3 | | feldspar dyke | p | 0.21 | 108.50 | 109.20 | 33.1 | 33.3 | 0.21 | 5.3 | 14.1 | 4 | 3 | 3 | 0 | 55 | 205 | - | | |
| 36.6 | | granodiorite | c | 3.29 | 109.20 | 120.00 | 33.3 | 36.6 | 3.29 | 82.3 | 4.6 | 3 | 19 | 15 | 4 | 45 | 15 | - | | |
| 37.8 | | | c | 1.22 | 120.00 | 124.00 | 36.6 | 37.8 | 1.22 | 30.5 | 14.8 | 3 | 28 | 18 | 10 | 80 | - | - | | |

HF highly fractured

Grain Size: a = aphanitic; f = fine; m = medium; c = coarse; p = pegmatite.

| | | | |
|---|---|---|---|
| PROJECT: Minto Copper Mine | CLIENT: Sherwood Mining | | BOREHOLE NO.: 05-SWC-048 |
| EBA PROJECT NO.: 1200173 | UTM ZONE: 8 | NORTHING: 6945411 | DATE LOGGED: Oct. 28-31, 2005 |
| LOCATION: Minto, Yukon | CORE: HQ | EASTING: 384585 | ELEVATION of COLLAR: 902 m |
| | | BOREHOLE DIP: -50 | DRILL TYPE: Val Dor |
| | | | LOGGED BY: K.E.Kennedy |

PEGMATITIC GRANODIORITE | DATA ENTRY | AUTOMATIC CALCULATION | FOLIATED GRANODIORITE | DYKES

| DEPTH (m) | LITHOLOGY | DESCRIPTION | GRAIN SIZE | INTERVAL (m) | Depth (ft) start | Depth (ft) end | Depth (m) start | Depth (m) end | Interval (m) | Row Height | FRACTURE DENSITY | HARDNESS | DISCONTINUITY DATA: Total No. of Fractures | Natural | Drill Induced | FRACTURE ANGLES a | FRACTURE ANGLES b | FRACTURE ANGLES III | HARDNESS 1 2 3 4 5 | FRACTURE DENSITY (fractures per metre) 5 10 15 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | c | 6.10 | | | | | 6.10 | 152.4 | | | 29 | 17 | 12 | 15 | 125 | - | | |
| 43.9 | | | | | 124.00 | 144.00 | 37.8 | 43.9 | | | 2.8 | 3 | | | | | | | | |
| 44.5 | | | c | 0.61 | 144.00 | 146.00 | 43.9 | 44.5 | 0.61 | 15.2 | 42.6 | 4 | 28 | 26 | 2 | 15 | 125 | - | | |
| | | | c | 1.52 | | | | | 1.52 | 38.1 | | | 13 | 4 | 9 | 125 | 155 | - | | |
| 46.0 | | | | | 146.00 | 151.00 | 44.5 | 46.0 | | | 2.6 | 3 | | | | | | | | |
| | | | c | 7.93 | | | | | 7.93 | 198.2 | | | 52 | 32 | 20 | 150 | 140 | - | | |
| 54.0 | | | | | 151.00 | 177.00 | 46.0 | 54.0 | | | 4.0 | 3 | | | | | | | | |
| | | | c | 5.79 | | | | | 5.79 | 144.8 | | | 32 | 19 | 13 | 70 | 221 | 10 | | |
| 59.8 | | | | | 177.00 | 196.00 | 54.0 | 59.8 | | | 3.3 | 3 | | | | | | | | |
| 60.3 | | weathered granodiorite | c | 0.55 | 196.00 | 197.80 | 59.8 | 60.3 | 0.55 | 13.7 | 21.9 | 2 | 12 | 12 | 0 | 130 | - | - | | |
| 60.7 | | feldspar dyke | p | 0.37 | 197.80 | 199.00 | 60.3 | 60.7 | 0.37 | 9.1 | 0.0 | 4 | 1 | 0 | 1 | 0 | - | - | | |
| | | granodiorite | c | 2.13 | | | | | 2.13 | 53.4 | | | 14 | 12 | 2 | 165 | 125 | - | | |
| 62.8 | | | | | 199.00 | 206.00 | 60.7 | 62.8 | | | 5.6 | 3 | | | | | | | | |
| | | | c | 3.05 | | | | | 3.05 | 76.2 | | | 24 | 17 | 7 | 150 | 15 | - | | |
| 65.9 | | | | | 206.00 | 216.00 | 62.8 | 65.9 | | | 5.6 | 3 | | | | | | | | |
| | | | c | 4.57 | | | | | 4.57 | 114.3 | | | 39 | 26 | 13 | 150 | 35 | - | | |
| 70.4 | | | | | 216.00 | 231.00 | 65.9 | 70.4 | | | 5.7 | 3 | | | | | | | | |
| | | | c | 1.52 | | | | | 1.52 | 38.1 | | | 11 | 8 | 3 | 150 | 45 | - | | |
| 72.0 | | | | | 231.00 | 236.00 | 70.4 | 72.0 | | | 5.2 | 3 | | | | | | | | |
| | | | c | 1.52 | | | | | 1.52 | 38.1 | | | 11 | 11 | 0 | 145 | 40 | - | | |
| 73.5 | | | | | 236.00 | 241.00 | 72.0 | 73.5 | | | 7.2 | 3 | | | | | | | | |
| | | | c | 1.52 | | | | | 1.52 | 38.1 | | | 13 | 12 | 1 | 30 | 147 | - | | |
| 75.0 | | | | | 241.00 | 246.00 | 73.5 | 75.0 | | | 7.9 | 3 | | | | | | | | |
| | | | p | 1.52 | | | | | 1.52 | 38.1 | | | 30 | 30 | 0 | 130 | 145 | - | | |
| 76.5 | | | | | 246.00 | 251.00 | 75.0 | 76.5 | | | 19.7 | 3 | | | | | | | | |
| | | | p | 1.52 | | | | | 1.52 | 38.1 | | | 29 | 29 | 0 | 45 | 185 | - | | |
| 78.0 | | | | | 251.00 | 256.00 | 76.5 | 78.0 | | | 19.0 | 3 | | | | | | | | |

| | | | |
|---|---|---|---|
| PROJECT: Minto Copper Mine | CLIENT: Sherwood Mining | | BOREHOLE NO.: 05-SWC-048 |
| EBA PROJECT NO.: 1200173 | UTM ZONE: 8 | NORTHING: 6945411 | DATE LOGGED: Oct. 28-31, 2005 |
| LOCATION: Minto, Yukon | CORE: HQ | EASTING: 384585 | ELEVATION of COLLAR: 902 m |
| | | BOREHOLE DIP: -50 | DRILL TYPE: Val Dor |
| | | | LOGGED BY: K.E.Kennedy |

PEGMATITIC GRANODIORITE | DATA ENTRY | AUTOMATIC CALCULATION | FOLIATED GRANODIORITE | DYKES

| DEPTH (m) | LITHOLOGY | DESCRIPTION | GRAIN SIZE | INTERVAL (m) | Depth (ft) start | Depth (ft) end | Depth (m) start | Depth (m) end | Interval (m) | Row Height | FRACTURE DENSITY | HARDNESS | DISCONTINUITY DATA: Total No. of Fractures | Natural | Drill Induced | FRACTURE ANGLES a | FRACTURE ANGLES b | FRACTURE ANGLES III | HARDNESS 1 2 3 4 5 | FRACTURE DENSITY (fractures per metre) 5 10 15 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 79.6 | | | p | 1.52 | 256.00 | 261.00 | 78.0 | 79.6 | 1.52 | 38.1 | 10.5 | 3 | 19 | 16 | 3 | 125 | - | - | | |
| 81.1 | | | p | 1.52 | 261.00 | 266.00 | 79.6 | 81.1 | 1.52 | 38.1 | 9.2 | 3 | 20 | 14 | 6 | 120 | 145 | 50 | | |
| 82.6 | | | p | 1.52 | 266.00 | 271.00 | 81.1 | 82.6 | 1.52 | 38.1 | 27.6 | 3 | 47 | 42 | 5 | 120 | 58 | - | | |
| 83.8 | | | p | 1.22 | 271.00 | 275.00 | 82.6 | 83.8 | 1.22 | 30.5 | 23.0 | 3 | 28 | 28 | 0 | 35 | 140 | - | | |
| 85.7 | | fault gouge | m-a | 1.83 | 275.00 | 281.00 | 83.8 | 85.7 | 1.83 | 45.7 | 13.1 | 1 | 26 | 24 | 2 | 20 | 40 | - | | |
| 87.5 | | granodiorite | p | 1.83 | 281.00 | 287.00 | 85.7 | 87.5 | 1.83 | 45.7 | 7.7 | 3 | 18 | 14 | 4 | 25 | 155 | - | | |
| 88.7 | | foliated granodiorite | c | 1.22 | 287.00 | 291.00 | 87.5 | 88.7 | 1.22 | 30.5 | 6.6 | 3 | 9 | 8 | 1 | 20 | 150 | - | | |
| 90.2 | | weathered granodiorite | c | 1.52 | 291.00 | 296.00 | 88.7 | 90.2 | 1.52 | 38.1 | 10.5 | 2 | 19 | 16 | 3 | 150 | - | - | | |
| 90.6 | | feldspar dyke | p | 0.40 | 296.00 | 297.30 | 90.2 | 90.6 | 0.40 | 9.9 | 10.1 | 4 | 4 | 4 | 0 | 45 | 190 | - | | |
| 91.4 | | foliated granodiorite | c | 0.76 | 297.30 | 299.80 | 90.6 | 91.4 | 0.76 | 19.1 | 6.6 | 3 | 5 | 5 | 0 | 25 | 125 | - | | |
| 91.8 | | | c | 0.37 | 299.80 | 301.00 | 91.4 | 91.8 | 0.37 | 9.1 | 2.7 | 3 | 3 | 1 | 2 | 115 | - | - | | |
| 92.2 | | | c | 0.46 | 301.00 | 302.50 | 91.8 | 92.2 | 0.46 | 11.4 | 8.7 | 3 | 4 | 4 | 0 | 130 | 55 | - | | |
| 92.7 | | feldspar dyke | p | 0.52 | 302.50 | 304.20 | 92.2 | 92.7 | 0.52 | 13.0 | 1.9 | 4 | 1 | 1 | 0 | 0 | - | - | | |
| 93.3 | | granodiorite | c | 0.55 | 304.20 | 306.00 | 92.7 | 93.3 | 0.55 | 13.7 | 21.9 | 3 | 14 | 12 | 2 | 175 | 138 | - | | |
| 94.8 | | | c | 1.52 | 306.00 | 311.00 | 93.3 | 94.8 | 1.52 | 38.1 | 1.3 | 3 | 4 | 2 | 2 | 22 | 0 | - | | |
| 96.6 | | | c | 1.83 | 311.00 | 317.00 | 94.8 | 96.6 | 1.83 | 45.7 | 2.7 | 3 | 9 | 5 | 4 | 70 | 190 | - | | |
| 97.9 | | | c | 1.22 | 317.00 | 321.00 | 96.6 | 97.9 | 1.22 | 30.5 | 6.6 | 3 | 10 | 8 | 2 | 5 | 125 | - | | |
| 99.4 | | | c | 1.52 | 321.00 | 326.00 | 97.9 | 99.4 | 1.52 | 38.1 | 3.9 | 3 | 7 | 6 | 1 | 45 | 210 | - | | |
| 99.8 | | | c | 0.37 | 326.00 | 327.20 | 99.4 | 99.8 | 0.37 | 9.1 | 5.5 | 3 | 2 | 2 | 0 | 30 | - | - | | |
| 100.1 | | fault gouge | a | 0.30 | 327.20 | 328.20 | 99.8 | 100.1 | 0.30 | 7.6 | 13.1 | 1 | 4 | 4 | 0 | - | - | - | | |
| 100.9 | | granodiorite | c | 0.85 | 328.20 | 331.00 | 100.1 | 100.9 | 0.85 | 21.3 | 5.9 | 2 | 7 | 5 | 2 | 45 | - | - | | |
| 102.4 | | | c | 1.52 | 331.00 | 336.00 | 100.9 | 102.4 | 1.52 | 38.1 | 24.3 | 3 | 40 | 37 | 3 | 0 | 110 | - | | |
| 104.0 | | | c | 1.52 | 336.00 | 341.00 | 102.4 | 104.0 | 1.52 | 38.1 | 7.2 | 3 | 14 | 11 | 3 | 15 | 150 | 90 | | |
| 105.5 | | | c | 1.52 | 341.00 | 346.00 | 104.0 | 105.5 | 1.52 | 38.1 | 11.2 | 3 | 21 | 17 | 4 | 0 | 100 | 125 | | |
| 107.0 | | feldspar dyke | c | 1.52 | 346.00 | 351.00 | 105.5 | 107.0 | 1.52 | 38.1 | 2.0 | 3 | 6 | 3 | 3 | 0 | 85 | 30 | | |
| 108.5 | | foliated granodiorite | c | 1.52 | 351.00 | 356.00 | 107.0 | 108.5 | 1.52 | 38.1 | 9.8 | 3 | 19 | 15 | 4 | 0 | 45 | 125 | | |
| 110.1 | | granodiorite | c | 1.52 | 356.00 | 361.00 | 108.5 | 110.1 | 1.52 | 38.1 | 6.6 | 3 | 11 | 10 | 1 | 150 | 45 | - | | |
| 111.6 | | | c | 1.52 | 361.00 | 366.00 | 110.1 | 111.6 | 1.52 | 38.1 | 4.6 | 3 | 22 | 7 | 15 | 47 | 200 | - | | |
| 113.1 | | | c | 1.52 | 366.00 | 371.00 | 111.6 | 113.1 | 1.52 | 38.1 | 2.0 | 3 | 8 | 3 | 5 | 45 | 200 | - | | |
| 114.6 | | | c | 1.52 | 371.00 | 376.00 | 113.1 | 114.6 | 1.52 | 38.1 | 7.9 | 3 | 21 | 12 | 9 | 45 | 201 | 170 | | |
| 116.2 | | | c | 1.52 | 376.00 | 381.00 | 114.6 | 116.2 | 1.52 | 38.1 | 9.8 | 3 | 20 | 15 | 5 | 127 | 40 | - | | |
| 116.9 | | | c | 0.76 | 381.00 | 383.50 | 116.2 | 116.9 | 0.76 | 19.1 | 3.9 | 3 | 4 | 3 | 1 | 150 | - | - | | |
| 117.5 | | feldspar dyke | p | 0.61 | 383.50 | 385.50 | 116.9 | 117.5 | 0.61 | 15.2 | 4.9 | 3 | 3 | 3 | 0 | 0 | 35 | - | | |
| 117.7 | | granodiorite | c | 0.15 | 385.50 | 386.00 | 117.5 | 117.7 | 0.15 | 3.8 | 0.0 | 4 | 1 | 0 | 1 | - | - | - | | |
| 119.2 | | | c | 1.52 | 386.00 | 391.00 | 117.7 | 119.2 | 1.52 | 38.1 | 5.9 | 3 | 12 | 9 | 3 | 140 | - | - | | |

| | | | |
|---|---|---|---|
| PROJECT: Minto Copper Mine | CLIENT: Sherwood Mining | | BOREHOLE NO.: 05-SWC-048 |
| EBA PROJECT NO.: 1200173 | UTM ZONE: 8 | NORTHING: 6945411 | DATE LOGGED: Oct. 28-31, 2005 |
| LOCATION: Minto, Yukon | CORE: HQ | EASTING: 384585 | ELEVATION of COLLAR: 902 m |
| | | BOREHOLE DIP: -50 | DRILL TYPE: Val Dor |
| | | | LOGGED BY: K.E.Kennedy |

PEGMATITIC GRANODIORITE | DATA ENTRY | AUTOMATIC CALCULATION | FOLIATED GRANODIORITE | DYKES

| DEPTH (m) | LITHOLOGY | DESCRIPTION | GRAIN SIZE | INTERVAL (m) | Depth (ft) start | Depth (ft) end | Depth (m) start | Depth (m) end | Interval (m) | Row Height | FRACTURE DENSITY | HARDNESS | DISCONTINUITY DATA: Total No. of Fractures | Natural | Drill Induced | FRACTURE ANGLES a | FRACTURE ANGLES b | FRACTURE ANGLES III |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 120.7 | | | c | 1.52 | 391.00 | 396.00 | 119.2 | 120.7 | 1.52 | 38.1 | 3.9 | 3 | 11 | 6 | 5 | 10 | 47 | - |
| 120.9 | | | c | 0.18 | 396.00 | 396.60 | 120.7 | 120.9 | 0.18 | 4.6 | 0.0 | 3 | 0 | 0 | 0 | - | - | - |
| 121.4 | | dioritic dyke | f | 0.49 | 396.60 | 398.20 | 120.9 | 121.4 | 0.49 | 12.2 | 10.3 | 3 | 5 | 5 | 0 | 160 | - | - |
| 122.3 | | granodiorite | c | 0.85 | 398.20 | 401.00 | 121.4 | 122.3 | 0.85 | 21.3 | 5.9 | 3 | 7 | 5 | 2 | 25 | - | - |
| 123.8 | | | c | 1.52 | 401.00 | 406.00 | 122.3 | 123.8 | 1.52 | 38.1 | 2.6 | 3 | 9 | 4 | 5 | 20 | 145 | - |
| 125.3 | | | c | 1.52 | 406.00 | 411.00 | 123.8 | 125.3 | 1.52 | 38.1 | 2.6 | 3 | 7 | 4 | 3 | 40 | 197 | - |
| 126.8 | | | c | 1.52 | 411.00 | 416.00 | 125.3 | 126.8 | 1.52 | 38.1 | 1.3 | 3 | 4 | 2 | 2 | 0 | - | - |
| 128.4 | | | c | 1.52 | 416.00 | 421.00 | 126.8 | 128.4 | 1.52 | 38.1 | 3.3 | 3 | 5 | 5 | 0 | 111 | 200 | 140 |
| 130.2 | | weathered granodiorite | c | 1.83 | 421.00 | 427.00 | 128.4 | 130.2 | 1.83 | 45.7 | 0.0 | 2 | HF | | | 70 | 185 | 115 |
| 131.4 | | granodiorite | c | 1.22 | 427.00 | 431.00 | 130.2 | 131.4 | 1.22 | 30.5 | 5.7 | 3 | 11 | 7 | 4 | 70 | 198 | 40 |
| 132.8 | | | c | 1.37 | 431.00 | 435.50 | 131.4 | 132.8 | 1.37 | 34.3 | 2.9 | 3 | 11 | 4 | 7 | 10 | 130 | - |
| 134.5 | | | c | 1.68 | 435.50 | 441.00 | 132.8 | 134.5 | 1.68 | 41.9 | 7.2 | 3 | 16 | 12 | 4 | 5 | 170 | - |
| 136.0 | | granodiorite; plagioclase and dioritic dykes | c | 1.52 | 441.00 | 446.00 | 134.5 | 136.0 | 1.52 | 38.1 | 3.9 | 3 | 8 | 6 | 2 | 35 | 160 | - |
| 137.5 | | granodiorite | c | 1.52 | 446.00 | 451.00 | 136.0 | 137.5 | 1.52 | 38.1 | 2.0 | 3 | 5 | 3 | 2 | 40 | 160 | 0 |
| 139.3 | | | c | 1.83 | 451.00 | 457.00 | 137.5 | 139.3 | 1.83 | 45.7 | 3.3 | 3 | 9 | 6 | 3 | 0 | 25 | - |
| 140.5 | | | c | 1.22 | 457.00 | 461.00 | 139.3 | 140.5 | 1.22 | 30.5 | 4.1 | 3 | 9 | 5 | 4 | 105 | 165 | 15 |
| 142.4 | | | c | 1.83 | 461.00 | 467.00 | 140.5 | 142.4 | 1.83 | 45.7 | 4.9 | 3 | 11 | 9 | 2 | 160 | 32 | - |
| 143.6 | | | c | 1.22 | 467.00 | 471.00 | 142.4 | 143.6 | 1.22 | 30.5 | 3.3 | 3 | 9 | 4 | 5 | 160 | 0 | - |
| 145.1 | | granodiorite; plagioclase and dioritic dykes | c | 1.52 | 471.00 | 476.00 | 143.6 | 145.1 | 1.52 | 38.1 | 2.6 | 3 | 8 | 4 | 4 | 23 | 135 | - |
| 146.6 | | granodiorite | c | 1.52 | 476.00 | 481.00 | 145.1 | 146.6 | 1.52 | 38.1 | 5.2 | 3 | 9 | 8 | 1 | 162 | 130 | 30 |
| 148.2 | | | c | 1.52 | 481.00 | 486.00 | 146.6 | 148.2 | 1.52 | 38.1 | 7.9 | 3 | 21 | 12 | 9 | 160 | 150 | - |
| 149.7 | | | c | 1.52 | 486.00 | 491.00 | 148.2 | 149.7 | 1.52 | 38.1 | 3.3 | 3 | 7 | 5 | 2 | 12 | 140 | 70 |
| 151.2 | | foliated granodiorite | c | 1.52 | 491.00 | 496.00 | 149.7 | 151.2 | 1.52 | 38.1 | 3.9 | 2 | 6 | 6 | 0 | 125 | 150 | 64 |
| 152.7 | | | c | 1.52 | 496.00 | 501.00 | 151.2 | 152.7 | 1.52 | 38.1 | 7.9 | 3 | 19 | 12 | 7 | 160 | 65 | - |
| 154.3 | | | c | 1.52 | 501.00 | 506.00 | 152.7 | 154.3 | 1.52 | 38.1 | 3.3 | 3 | 14 | 5 | 9 | 5 | 40 | 125 |
| 155.8 | | | c | 1.52 | 506.00 | 511.00 | 154.3 | 155.8 | 1.52 | 38.1 | 8.5 | 3 | 14 | 13 | 1 | 160 | 70 | - |
| 157.3 | | | c | 1.52 | 511.00 | 516.00 | 155.8 | 157.3 | 1.52 | 38.1 | 5.2 | 3 | 14 | 8 | 6 | 120 | 15 | - |
| 158.8 | | | c | 1.52 | 516.00 | 521.00 | 157.3 | 158.8 | 1.52 | 38.1 | 3.3 | 3 | 10 | 5 | 5 | 160 | 0 | - |
| 160.4 | | | c | 1.52 | 521.00 | 526.00 | 158.8 | 160.4 | 1.52 | 38.1 | 1.3 | 3 | 18 | 2 | 16 | - | - | - |

HARDNESS 1 2 3 4 5 | FRACTURE DENSITY (fractures per metre) 5 10 15 20

HF highly fractured

Grain Size: a = aphanitic; f = fine; m = medium; c = coarse; p = pegmatite.

| | | | |
|---|---|---|---|
| PROJECT: Minto Copper Mine | CLIENT: Sherwood Mining | | BOREHOLE NO.: 05-SWC-048 |
| EBA PROJECT NO.: 1200173 | UTM ZONE: 8 | NORTHING: 6945411 | DATE LOGGED: Oct. 28-31, 2005 |
| LOCATION: Minto, Yukon | CORE: HQ | EASTING: 384585 | ELEVATION of COLLAR: 902 m |
| | | BOREHOLE DIP: -50 | DRILL TYPE: Val Dor |
| | | | LOGGED BY: K.E.Kennedy |

PEGMATITIC GRANODIORITE | DATA ENTRY | AUTOMATIC CALCULATION | FOLIATED GRANODIORITE | DYKES

| DEPTH (m) | LITHOLOGY | DESCRIPTION | GRAIN SIZE | INTERVAL (m) | Depth (ft) start | Depth (ft) end | Depth (m) start | Depth (m) end | Interval (m) | Row Height | FRACTURE DENSITY | HARDNESS | DISCONTINUITY DATA: Total No. of Fractures | Natural | Drill Induced | FRACTURE ANGLES a | FRACTURE ANGLES b | FRACTURE ANGLES III | HARDNESS 1 2 3 4 5 | FRACTURE DENSITY (fractures per metre) 5 10 15 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 161.9 | | | c | 1.52 | 526.00 | 531.00 | 160.4 | 161.9 | 1.52 | 38.1 | 5.2 | 3 | 11 | 8 | 3 | 160 | 35 | - | | |
| 163.4 | | | c | 1.52 | 531.00 | 536.00 | 161.9 | 163.4 | 1.52 | 38.1 | 7.9 | 3 | 13 | 12 | 1 | 150 | 10 | - | | |
| 164.9 | | | c | 1.52 | 536.00 | 541.00 | 163.4 | 164.9 | 1.52 | 38.1 | 0.7 | 3 | 14 | 1 | 13 | 30 | 130 | - | | |
| 166.8 | | granodiorite | c | 1.83 | 541.00 | 547.00 | 164.9 | 166.8 | 1.83 | 45.7 | 5.5 | 2 | 10 | 10 | 0 | 37 | 105 | - | | |
| 168.0 | | | c | 1.22 | 547.00 | 551.00 | 166.8 | 168.0 | 1.22 | 30.5 | 9.8 | 3 | 16 | 12 | 4 | 140 | 30 | - | | |
| 169.5 | | | c | 1.52 | 551.00 | 556.00 | 168.0 | 169.5 | 1.52 | 38.1 | 7.2 | 3 | 13 | 11 | 2 | 150 | 130 | 10 | | |
| 171.0 | | | c | 1.52 | 556.00 | 561.00 | 169.5 | 171.0 | 1.52 | 38.1 | 3.9 | 3 | 12 | 6 | 6 | 45 | 130 | 15 | | |
| 172.6 | | foliated granodiorite | c | 1.52 | 561.00 | 566.00 | 171.0 | 172.6 | 1.52 | 38.1 | 3.9 | 3 | 13 | 6 | 7 | 135 | 0 | - | | |
| 174.1 | | granodiorite | c | 1.52 | 566.00 | 571.00 | 172.6 | 174.1 | 1.52 | 38.1 | 7.2 | 3 | 14 | 11 | 3 | 35 | 70 | - | | |
| 175.6 | | | c | 1.52 | 571.00 | 576.00 | 174.1 | 175.6 | 1.52 | 38.1 | 7.2 | 3 | 18 | 11 | 7 | 150 | 120 | - | | |
| 177.1 | | | c | 1.52 | 576.00 | 581.00 | 175.6 | 177.1 | 1.52 | 38.1 | 5.2 | 3 | 13 | 8 | 5 | 55 | 221 | - | | |
| 178.7 | | | c | 1.52 | 581.00 | 586.00 | 177.1 | 178.7 | 1.52 | 38.1 | 5.2 | 3 | 13 | 8 | 5 | 150 | 125 | 60 | | |
| 180.2 | | | c | 1.52 | 586.00 | 591.00 | 178.7 | 180.2 | 1.52 | 38.1 | 3.9 | 3 | 7 | 6 | 1 | 65 | 200 | - | | |
| 181.7 | | | c | 1.52 | 591.00 | 596.00 | 180.2 | 181.7 | 1.52 | 38.1 | 3.9 | 3 | 13 | 6 | 7 | 0 | 60 | 120 | | |
| 183.2 | | | c | 1.52 | 596.00 | 601.00 | 181.7 | 183.2 | 1.52 | 38.1 | 10.5 | 3 | 22 | 16 | 6 | 155 | 40 | - | | |
| 184.8 | | foliated granodiorite | c | 1.52 | 601.00 | 606.00 | 183.2 | 184.8 | 1.52 | 38.1 | 19.7 | 3 | 38 | 30 | 8 | 135 | - | - | | |
| 186.3 | | | c | 1.52 | 606.00 | 611.00 | 184.8 | 186.3 | 1.52 | 38.1 | 12.5 | 3 | 26 | 19 | 7 | 0 | 27 | - | | |
| 187.8 | | | c | 1.52 | 611.00 | 616.00 | 186.3 | 187.8 | 1.52 | 38.1 | 5.2 | 3 | 9 | 8 | 1 | 10 | 120 | - | | |
| 189.3 | | dioritic dyke | m | 1.52 | 616.00 | 621.00 | 187.8 | 189.3 | 1.52 | 38.1 | 13.1 | 4 | 24 | 20 | 4 | 150 | 90 | - | | |
| 190.0 | | granodiorite | m | 0.67 | 621.00 | 623.20 | 189.3 | 190.0 | 0.67 | 16.8 | 4.5 | 4 | 3 | 3 | 0 | 20 | - | - | | |
| 190.3 | | feldspar dyke | p | 0.30 | 623.20 | 624.20 | 190.0 | 190.3 | 0.30 | 7.6 | 3.3 | 4 | 1 | 1 | 0 | 0 | - | - | | |
| 190.9 | | granodiorite | c | 0.55 | 624.20 | 626.00 | 190.3 | 190.9 | 0.55 | 13.7 | 5.5 | 3 | 4 | 3 | 1 | 42 | - | - | | |
| 192.4 | | foliated granodiorite | c | 1.52 | 626.00 | 631.00 | 190.9 | 192.4 | 1.52 | 38.1 | 9.2 | 3 | 18 | 14 | 4 | 140 | 30 | - | | |
| 193.9 | | | c | 1.52 | 631.00 | 636.00 | 192.4 | 193.9 | 1.52 | 38.1 | 7.9 | 3 | 17 | 12 | 5 | 140 | 35 | - | | |
| 195.4 | | | c | 1.52 | 636.00 | 641.00 | 193.9 | 195.4 | 1.52 | 38.1 | 5.9 | 3 | 12 | 9 | 3 | 135 | - | - | | |
| 197.0 | | | c | 1.52 | 641.00 | 646.00 | 195.4 | 197.0 | 1.52 | 38.1 | 5.2 | 3 | 11 | 8 | 3 | 0 | 50 | 175 | | |
| 198.5 | | | c | 1.52 | 646.00 | 651.00 | 197.0 | 198.5 | 1.52 | 38.1 | 8.5 | 3 | 17 | 13 | 4 | 55 | 188 | - | | |
| 200.0 | | granodiorite w/ intrusive dykes; fault gouge | c | 1.52 | 651.00 | 656.00 | 198.5 | 200.0 | 1.52 | 38.1 | 5.9 | 3 | 12 | 9 | 3 | 65 | 170 | - | | |
| 201.5 | | | c | 1.52 | 656.00 | 661.00 | 200.0 | 201.5 | 1.52 | 38.1 | 3.9 | 3 | 10 | 6 | 4 | 145 | 160 | - | | |

HF highly fractured

Grain Size: a = aphanitic; f = fine; m = medium; c = coarse; p = pegmatite.

| | | | |
|---|---|---|---|
| PROJECT: Minto Copper Mine | CLIENT: Sherwood Mining | | BOREHOLE NO.: 05-SWC-048 |
| EBA PROJECT NO.: 1200173 | UTM ZONE: 8 | NORTHING: 6945411 | DATE LOGGED: Oct. 28-31, 2005 |
| LOCATION: Minto, Yukon | CORE: HQ | EASTING: 384585 | ELEVATION of COLLAR: 902 m |
| | | BOREHOLE DIP: -50 | DRILL TYPE: Val Dor |
| | | | LOGGED BY: K.E.Kennedy |

PEGMATITIC GRANODIORITE | DATA ENTRY | AUTOMATIC CALCULATION | FOLIATED GRANODIORITE | DYKES

| DEPTH (m) | LITHOLOGY | DESCRIPTION | GRAIN SIZE | INTERVAL (m) | Depth (ft) start | Depth (ft) end | Depth (m) start | Depth (m) end | Interval (m) | Row Height | FRACTURE DENSITY | HARDNESS | DISCONTINUITY DATA: Total No. of Fractures | Natural | Drill Induced | FRACTURE ANGLES a | FRACTURE ANGLES b | FRACTURE ANGLES III | HARDNESS 1 2 3 4 5 | FRACTURE DENSITY (fractures per metre) 5 10 15 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 203.0 | | | c | 1.52 | 661.00 | 666.00 | 201.5 | 203.0 | 1.52 | 38.1 | 3.3 | 3 | 8 | 5 | 3 | 60 | 195 | - | | |
| 204.6 | | | c | 1.52 | 666.00 | 671.00 | 203.0 | 204.6 | 1.52 | 38.1 | 3.9 | 3 | 13 | 6 | 7 | 155 | 55 | - | | |
| 206.1 | | | c | 1.52 | 671.00 | 676.00 | 204.6 | 206.1 | 1.52 | 38.1 | 3.3 | 3 | 13 | 5 | 8 | 135 | 35 | 115 | | |
| 207.6 | | | c | 1.52 | 676.00 | 681.00 | 206.1 | 207.6 | 1.52 | 38.1 | 9.2 | 3 | 17 | 14 | 3 | 150 | 40 | - | | |
| 209.1 | | | c | 1.52 | 681.00 | 686.00 | 207.6 | 209.1 | 1.52 | 38.1 | 5.9 | 3 | 9 | 9 | 0 | 60 | - | - | | |
| 210.7 | | | c | 1.52 | 686.00 | 691.00 | 209.1 | 210.7 | 1.52 | 38.1 | 4.6 | 3 | 10 | 7 | 3 | 140 | - | - | | |
| 212.2 | | | c | 1.52 | 691.00 | 696.00 | 210.7 | 212.2 | 1.52 | 38.1 | 5.9 | 3 | 16 | 9 | 7 | 140 | 30 | - | | |
| 213.7 | | | c | 1.52 | 696.00 | 701.00 | 212.2 | 213.7 | 1.52 | 38.1 | 1.3 | 3 | 8 | 2 | 6 | 140 | - | - | | |
| 215.2 | | | c | 1.52 | 701.00 | 706.00 | 213.7 | 215.2 | 1.52 | 38.1 | 5.9 | 3 | 15 | 9 | 4 | 135 | - | - | | |
| 216.8 | | | c | 1.52 | 706.00 | 711.00 | 215.2 | 216.8 | 1.52 | 38.1 | 7.9 | 3 | 18 | 12 | 6 | 145 | 70 | 120 | | |
| 218.3 | | | c | 1.52 | 711.00 | 716.00 | 216.8 | 218.3 | 1.52 | 38.1 | 5.9 | 3 | 12 | 9 | 3 | 40 | 177 | - | | |
| 219.8 | | | c | 1.52 | 716.00 | 721.00 | 218.3 | 219.8 | 1.52 | 38.1 | 5.2 | 3 | 11 | 8 | 3 | 125 | 50 | - | | |
| 221.3 | | | c | 1.52 | 721.00 | 726.00 | 219.8 | 221.3 | 1.52 | 38.1 | 7.9 | 3 | 17 | 12 | 5 | 135 | - | - | | |
| 222.9 | | | c | 1.52 | 726.00 | 731.00 | 221.3 | 222.9 | 1.52 | 38.1 | 4.6 | 3 | 15 | 7 | 8 | 0 | - | - | | |
| 224.4 | | | c | 1.52 | 731.00 | 736.00 | 222.9 | 224.4 | 1.52 | 38.1 | 5.9 | 3 | 13 | 9 | 4 | 120 | 45 | - | | |
| 225.9 | | | c | 1.52 | 736.00 | 741.00 | 224.4 | 225.9 | 1.52 | 38.1 | 4.6 | 3 | 14 | 7 | 7 | 130 | 45 | - | | |
| 227.4 | | | c | 1.52 | 741.00 | 746.00 | 225.9 | 227.4 | 1.52 | 38.1 | 2.0 | 3 | 8 | 3 | 5 | 25 | 130 | - | | |
| 229.0 | | | c | 1.52 | 746.00 | 751.00 | 227.4 | 229.0 | 1.52 | 38.1 | 6.6 | 3 | 16 | 10 | 6 | 140 | 15 | - | | |
| 230.5 | | | c | 1.52 | 751.00 | 756.00 | 229.0 | 230.5 | 1.52 | 38.1 | 5.9 | 3 | 15 | 9 | 6 | 150 | 10 | - | | |
| 232.0 | | | c | 1.52 | 756.00 | 761.00 | 230.5 | 232.0 | 1.52 | 38.1 | 7.2 | 3 | 15 | 11 | 4 | 135 | 40 | - | | |
| 233.8 | | | c | 1.83 | 761.00 | 767.00 | 232.0 | 233.8 | 1.83 | 45.7 | 8.7 | 2 | 18 | 16 | 2 | 0 | 45 | 15 | | |
| 235.1 | | | c | 1.22 | 767.00 | 771.00 | 233.8 | 235.1 | 1.22 | 30.5 | 4.1 | 3 | 8 | 5 | 3 | 170 | 0 | - | | |
| 236.6 | | | c | 1.52 | 771.00 | 776.00 | 235.1 | 236.6 | 1.52 | 38.1 | 2.6 | 2 | 6 | 4 | 2 | 125 | 45 | - | | |
| 238.1 | | | c | 1.52 | 776.00 | 781.00 | 236.6 | 238.1 | 1.52 | 38.1 | 1.3 | 2 | 5 | 2 | 3 | 120 | - | - | | |
| 239.6 | | | c | 1.52 | 781.00 | 786.00 | 238.1 | 239.6 | 1.52 | 38.1 | 13.1 | 2 | 23 | 20 | 3 | 30 | 130 | - | | |
| 241.2 | | | c | 1.52 | 786.00 | 791.00 | 239.6 | 241.2 | 1.52 | 38.1 | 3.3 | 2 | 8 | 5 | 3 | 140 | 30 | - | | |
| 242.7 | | | c | 1.52 | 791.00 | 796.00 | 241.2 | 242.7 | 1.52 | 38.1 | 6.6 | 2 | 11 | 10 | 1 | 160 | 33 | - | | |

HF highly fractured

Grain Size: a = aphanitic; f = fine; m = medium; c = coarse; p = pegmatite.

| | | | |
|---|---|---|---|
| PROJECT: Minto Copper Mine | CLIENT: Sherwood Mining | | BOREHOLE NO.: **05-SWC-048** |
| EBA PROJECT NO.: 1200173 | UTM ZONE: 8 | NORTHING: 6945411 | DATE LOGGED: Oct. 28-31, 2005 |
| LOCATION: Minto, Yukon | CORE: HQ | EASTING: 384585 | ELEVATION of COLLAR: 902 m |
| | | BOREHOLE DIP: -50 | DRILL TYPE: Val Dor |
| | | | LOGGED BY: K.E.Kennedy |

PEGMATITIC GRANODIORITE | DATA ENTRY | AUTOMATIC CALCULATION | FOLIATED GRANODIORITE | DYKES

| DEPTH (m) | LITHOLOGY | DESCRIPTION | GRAIN SIZE | INTERVAL (m) | Depth (ft) start | Depth (ft) end | Depth (m) start | Depth (m) end | Interval (m) | Row Height | FRACTURE DENSITY | HARDNESS | DISCONTINUITY DATA: Total No. of Fractures | Natural | Drill Induced | FRACTURE ANGLES a | FRACTURE ANGLES b | FRACTURE ANGLES III | HARDNESS 1 2 3 4 5 | FRACTURE DENSITY (fractures per metre) 5 10 15 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 244.2 | | altered granodiorite | c | 1.52 | 796.00 | 801.00 | 242.7 | 244.2 | 1.52 | 38.1 | 7.9 | 2 | 13 | 12 | 1 | 140 | 20 | 90 | | |
| 245.7 | | | c | 1.52 | 801.00 | 806.00 | 244.2 | 245.7 | 1.52 | 38.1 | 16.4 | 2 | 27 | 25 | 2 | 120 | 17 | - | | |
| 247.3 | | | c | 1.52 | 806.00 | 811.00 | 245.7 | 247.3 | 1.52 | 38.1 | 23.6 | 2 | 36 | 36 | 0 | 35 | - | - | | |
| 248.8 | | | c | 1.52 | 811.00 | 816.00 | 247.3 | 248.8 | 1.52 | 38.1 | 17.1 | 2 | 28 | 26 | 2 | 160 | 30 | - | | |
| 250.3 | | | c | 1.52 | 816.00 | 821.00 | 248.8 | 250.3 | 1.52 | 38.1 | 13.1 | 2 | 21 | 20 | 1 | 130 | 45 | - | | |
| 251.8 | | | c | 1.52 | 821.00 | 826.00 | 250.3 | 251.8 | 1.52 | 38.1 | 22.3 | 2 | 34 | 34 | 0 | 167 | - | - | | |
| 253.4 | | granodiorite | c | 1.52 | 826.00 | 831.00 | 251.8 | 253.4 | 1.52 | 38.1 | 7.2 | 2 | 16 | 11 | 5 | 0 | 20 | - | | |
| 254.9 | | | c | 1.52 | 831.00 | 836.00 | 253.4 | 254.9 | 1.52 | 38.1 | 12.5 | 3 | 21 | 19 | 2 | 155 | 0 | - | | |
| 256.4 | | | c | 1.52 | 836.00 | 841.00 | 254.9 | 256.4 | 1.52 | 38.1 | 6.6 | 3 | 11 | 10 | 1 | 155 | 40 | - | | |
| 257.3 | | | c | 0.91 | 841.00 | 844.00 | 256.4 | 257.3 | 0.91 | 22.9 | 8.7 | 2 | 10 | 8 | 2 | 117 | - | - | | |
| 259.5 | | | c | 2.13 | 844.00 | 851.00 | 257.3 | 259.5 | 2.13 | 53.4 | 4.2 | 2 | 29 | 9 | 20 | 0 | 25 | 155 | | |
| 261.0 | | | c | 1.52 | 851.00 | 856.00 | 259.5 | 261.0 | 1.52 | 38.1 | 11.2 | 3 | 19 | 17 | 2 | 135 | 45 | - | | |
| 262.5 | | | c | 1.52 | 856.00 | 861.00 | 261.0 | 262.5 | 1.52 | 38.1 | 5.9 | 3 | 13 | 9 | 4 | 30 | 5 | - | | |
| 264.0 | | | c | 1.52 | 861.00 | 866.00 | 262.5 | 264.0 | 1.52 | 38.1 | 7.2 | 3 | 12 | 11 | 1 | 140 | 155 | - | | |
| 265.5 | | | c | 1.52 | 866.00 | 871.00 | 264.0 | 265.5 | 1.52 | 38.1 | 3.9 | 3 | 7 | 6 | 1 | 145 | 20 | - | | |
| 267.1 | | | c | 1.52 | 871.00 | 876.00 | 265.5 | 267.1 | 1.52 | 38.1 | 3.9 | 3 | 10 | 6 | 4 | 30 | - | - | | |
| 268.6 | | | c | 1.52 | 876.00 | 881.00 | 267.1 | 268.6 | 1.52 | 38.1 | 11.8 | 3 | 21 | 18 | 3 | 65 | 205 | - | | |
| 270.1 | | | c | 1.52 | 881.00 | 886.00 | 268.6 | 270.1 | 1.52 | 38.1 | 5.9 | 3 | 12 | 9 | 3 | 150 | 65 | - | | |
| 271.3 | | | c | 1.22 | 886.00 | 890.00 | 270.1 | 271.3 | 1.22 | 30.5 | 0.8 | 3 | 2 | 1 | 1 | 125 | - | - | | |

EOH

HF highly fractured

Grain Size: a = aphanitic; f = fine; m = medium; c = coarse; p = pegmatite.

DDH: 05SWC 048 Box: 1 to Box: 4
Date: Oct 22. 2005 From: 3.66 m To: 20.42 m
5.18
6.40
5
24
29
05-SWC-048-Bx3
05-SWC-048-Bx4

DDH: 05SWC 048 Box: 5 to Box: 8
Date: Oct 22, 2005 From: 20.42m To: 37.75m
05-SWC-048-BX5
05-SWC-048 BX6
86
05. SWC. 048. BX7.
05. SWC. 048. BX8.
116
1.75

DDH: 05SWC 048 Box: 9 to Box: 12
Date: Oct 22. 2005 From: 37.75m To: 54.20m
05. SWC. 048. BX9
37.75
126
42.82
05. SWC. 048. BX 10
147
151
05. SWC. 048. BX 11
156
149
05. SWC. 048 & XR2
54.20

DDH: 05SWC 048 Box: 13 to Box: 16
Date: Oct 22. 2005 From: 54.2 m To: 70.41 m
05-SWC-048-BX13
05-SWC-048-BX14
05-SWC-048 BX15
05. SWC. 048. BX16
70.41

DDH: 05SWC 048 Box: 19 to Box: 20
Date: Oct 22, 2005 From: 70.41m To: 85.95m
05. SWC. 048. BX 17.
05. SWC. 048. BX 18.
05. SWC. 048. BX 19.
05. SWC. 048. BX 20
85.95

DDH: 05SWC 048 Box: 21 to Box: 24
Date: Oct 22, 2005 From: 85.95m To: 102.20m
05-SWC-048-BX-21
05-SWC-048-BX-22
05-SWC-048-BX-23
05 SWC 048 BX 24
291
317
321
102.20

DDH: 05SWC 048
Box: 25 to Box: 28
Date: Oct 22, 2005
From: 102.20 m To: 116.53 m
05.SWC.048.BX25.
05.SWC.048.BX26.
05.SWC.048.BX27.
05.SWC.048.BX28.
118.53

DDH: 05SWC 048
Box: 29 to Box: 32
Date: Oct 22, 2005
From: 116.53m To: 133.60m
05-SWC-048 BX 30
05-SWC-048 BX-31
05-SWC-048 BX 32

DDH: 05SWC 048 Box: 33 to Box: 36
Date: Oct 22, 2005 From: 133.60m To: 149.66m
05 SWC 048 BX 33
05 SWC 048 BX 34
05 SWC 048 BX 35
05 SWC 048 BX 36

DDH: 05SWC 048 Box: 37 to Box: 40
Date: Oct 22. 2005 From: 149.66 m to: 167.43 m
05-SWC-048-BX37
05-SWC-048-BX38
05-SWC-048-BX39
05-SWC-048-BX40
167.43

DDH: 05SWC 048 Box: 41 To Box: 44
Date: Oct 22, 2005 From: 167.43 m To: 184.10 m
05-SWC-048 BX-41
05-SWC-048-BX-42
05-SWC-048-BX-43
05-SWC-048-BX-44
184.10

DDH: 05SWC 048 Box: 45 to Box: 48
Date: Oct 22. 2005 From: 184.10m To: 198.69m
05-SWC-048-Box-45
05-SWC-048-Bx-46
621'
05-SWC-048-Bx-47
05-SWC-048-Bx-48

DDH: 05SWC 048
Box: 49 to Box: 52
Date: Oct 22, 2005
From: 198.67m To: 214.35m
05.SWC.048.BX49
05:SWC.048 BX50
671'
676'
05.SWC.048.BX51
05-SWC-048.BX52
214.35

DDH: 05SWC 048
Box: 53 to Box: 56
Date: Oct 22, 2005
From: 214.35m To: 230.13m
05-SWC-048-Bx-53
05-SWC-048-Bx-54
05-SWC-048-Bx-55
05-SWC-048-Bx-56

DDH: 05SWC 048
Box: 57 to Box: 60
Date: Oct 22, 2005
From: 230.73m To: 246.32m
05-SWC-048 Bx 57
05-SWC-048 Bx 58
05.SWC.048.BX54.
05-SWC-048 Bx 60

DDH: 05SWC 048
Box: 61 to Box: 64
Date: Oct 22, 2005
From 246.32 m To 262.88 m
05-SWC-048 Bx 61
05-SWC-048 Bx 62
05-SWC-048 Bx 63
05-SWC-048 Bx 64

DDH: 05SWC 048
Box: 65 to Box: 66
Date: Oct 22, 2005
From: 262.80m To: 271.27m
05-SWC-048-BX-65
05-SWC-048-BX-66
EOH

| | | | |
|---|---|---|---|
| PROJECT: Minto Copper Mine | CLIENT: Sherwood Mining | | BOREHOLE NO.: 05-SWC-049 |
| | | | DATE LOGGED: Nov. 24 - 25, 2005 |
| EBA PROJECT NO.: 1200173 | UTM ZONE: 8 | NORTHING: 6945274 | ELEVATION of COLLAR: 850 m |
| LOCATION: Minto, Yukon | | EASTING: 384780 | DRILL TYPE: Val Dor |
| | CORE: HQ | BOREHOLE DIP: -50 | LOGGED BY: K.E.Kennedy |

PEGMATITIC GRANODIORITE | DATA ENTRY | AUTOMATIC CALCULATION | FOLIATED GRANODIORITE | DYKES

| DEPTH (m) | LITHOLOGY | DESCRIPTION | GRAIN SIZE | INTERVAL (m) | Depth (ft) start | Depth (ft) end | Depth (m) start | Depth (m) end | Interval (m) | Row Height | FRACTURE DENSITY | HARDNESS | DISCONTINUITY DATA: Total No. of Fractures | Natural | Drill Induced | FRACTURE ANGLES a | FRACTURE ANGLES b | FRACTURE ANGLES III | HARDNESS 1 2 3 4 5 | FRACTURE DENSITY (fractures per metre) 5 10 15 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | overburden | | 6.40 | 0.00 | 21.00 | 0.0 | 6.4 | 6.40 | 160.1 | 0.0 | | 0.0 | 0.0 | 0.0 | - | - | - | | |
| 7.9 | | granodiorite | m | 1.52 | 21.00 | 26.00 | 6.4 | 7.9 | 1.52 | 38.1 | 1.3 | 4 | 2 | 2 | 0 | 135 | 4 | 3 | | |
| 9.5 | | weathered granodiorite | c | 1.52 | 26.00 | 31.00 | 7.9 | 9.5 | 1.52 | 38.1 | 0.0 | 1 | HF | | | - | - | - | | |
| 11.0 | | granodiorite | c | 1.52 | 31.00 | 36.00 | 9.5 | 11.0 | 1.52 | 38.1 | 16.4 | 2 | 25 | 25 | 0 | - | - | - | | |
| 12.5 | | weathered granodiorite | c | 1.52 | 36.00 | 41.00 | 11.0 | 12.5 | 1.52 | 38.1 | 0.0 | 1 | HF | | | - | - | - | | |
| 41.2 | | granodiorite | c | 28.7 | 41.00 | 135.00 | 12.5 | 41.2 | 28.66 | 716.5 | 0.3 | 2 | HF | 10 | HF | 35 | 80 | - | | |
| 42.7 | | | | 1.52 | 135.00 | 140.00 | 41.2 | 42.7 | 1.52 | 38.1 | 0.0 | 2 | HF | | 0 | - | - | - | | |
| 44.2 | | mafic dyke | f | 1.52 | 140.00 | 145.00 | 42.7 | 44.2 | 1.52 | 38.1 | 0.0 | 3 | HF | | | - | - | - | | |
| 45.7 | | granodiorite | c | 1.52 | 145.00 | 150.00 | 44.2 | 45.7 | 1.52 | 38.1 | 0.0 | 2 | HF | | | - | - | - | | |
| 47.3 | | | c | 1.52 | 150.00 | 155.00 | 45.7 | 47.3 | 1.52 | 38.1 | 7.9 | 2 | 18 | 12 | 6 | 135 | - | - | | |
| 48.8 | | | c | 1.52 | 155.00 | 160.00 | 47.3 | 48.8 | 1.52 | 38.1 | 12.5 | 2 | 22 | 19 | 3 | 165 | 115 | - | | |
| 50.3 | | | c | 1.52 | 160.00 | 165.00 | 48.8 | 50.3 | 1.52 | 38.1 | 13.1 | 2 | 30 | 20 | 10 | 130 | - | - | | |
| 51.8 | | | c | 1.52 | 165.00 | 170.00 | 50.3 | 51.8 | 1.52 | 38.1 | 20.3 | 2 | 33 | 31 | 2 | 60 | 90 | - | | |
| 53.4 | | weathered granodiorite | c | 1.52 | 170.00 | 175.00 | 51.8 | 53.4 | 1.52 | 38.1 | 9.8 | 2 | 19 | 15 | 4 | 70 | 20 | 55 | | |

HF highly fractured

Grain Size: a = aphanitic; f = fine; m = medium; c = coarse; p = pegmatite.

| | | | |
|---|---|---|---|
| PROJECT: Minto Copper Mine | CLIENT: Sherwood Mining | | BOREHOLE NO.: 05-SWC-049 |
| | | | DATE LOGGED: Nov. 24 - 25, 2005 |
| EBA PROJECT NO.: 1200173 | UTM ZONE: 8 | NORTHING: 6945274 | ELEVATION of COLLAR: 850 m |
| LOCATION: Minto, Yukon | | EASTING: 384780 | DRILL TYPE: Val Dor |
| | CORE: HQ | BOREHOLE DIP: -50 | LOGGED BY: K.E.Kennedy |

PEGMATITIC GRANODIORITE | DATA ENTRY | AUTOMATIC CALCULATION | FOLIATED GRANODIORITE | DYKES

| DEPTH (m) | LITHOLOGY | DESCRIPTION | GRAIN SIZE | INTERVAL (m) | Depth (ft) start | Depth (ft) end | Depth (m) start | Depth (m) end | Interval (m) | Row Height | FRACTURE DENSITY | HARDNESS | DISCONTINUITY DATA: Total No. of Fractures | Natural | Drill induced | FRACTURE ANGLES a | FRACTURE ANGLES b | FRACTURE ANGLES III |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 54.9 | | granodiorite | c | 1.52 | 175.00 | 180.00 | 53.4 | 54.9 | 1.52 | 38.1 | 7.2 | 2 | 13 | 11 | 2 | 25 | 110 | 70 |
| 56.4 | | | c | 1.52 | 180.00 | 185.00 | 54.9 | 56.4 | 1.52 | 38.1 | 12.5 | 2 | 25 | 19 | 6 | 105 | 60 | - |
| 57.9 | | | c | 1.52 | 185.00 | 190.00 | 56.4 | 57.9 | 1.52 | 38.1 | 7.9 | 2 | 13 | 12 | 1 | 40 | - | - |
| 59.5 | | | c | 1.52 | 190.00 | 195.00 | 57.9 | 59.5 | 1.52 | 38.1 | 24.3 | 2 | 40 | 37 | 3 | 40 | 130 | 85 |
| 61.0 | | | c | 1.52 | 195.00 | 200.00 | 59.5 | 61.0 | 1.52 | 38.1 | 11.2 | 2 | 29 | 17 | 12 | 105 | 160 | - |
| 62.5 | | | c | 1.52 | 200.00 | 205.00 | 61.0 | 62.5 | 1.52 | 38.1 | 9.8 | 3 | 17 | 15 | 2 | 58 | 127 | - |
| 64.0 | | | c | 1.52 | 205.00 | 210.00 | 62.5 | 64.0 | 1.52 | 38.1 | 4.6 | 3 | 19 | 7 | 12 | 30 | 110 | - |
| 65.5 | | | c | 1.52 | 210.00 | 215.00 | 64.0 | 65.5 | 1.52 | 38.1 | 13.1 | 3 | HF | 20 | HF | 50 | 75 | - |
| 67.1 | | | c | 1.52 | 215.00 | 220.00 | 65.5 | 67.1 | 1.52 | 38.1 | 2.6 | 3 | 30 | 4 | 26 | 130 | 115 | - |
| 68.6 | | weathered granodiorite | c | 1.52 | 220.00 | 225.00 | 67.1 | 68.6 | 1.52 | 38.1 | 0.0 | 2 | HF | | 0 | 45 | - | - |
| 70.1 | | | c | 1.52 | 225.00 | 230.00 | 68.6 | 70.1 | 1.52 | 38.1 | 0.0 | 2 | HF | | 0 | 40 | 135 | - |
| 71.3 | | granodiorite | c | 1.22 | 230.00 | 234.00 | 70.1 | 71.3 | 1.22 | 30.5 | 18.0 | 2 | 24 | 22 | 2 | 90 | 45 | - |
| 73.2 | | | c | 1.83 | 234.00 | 240.00 | 71.3 | 73.2 | 1.83 | 45.7 | 20.8 | 2 | 38 | 38 | 0 | 44 | 90 | - |
| 74.7 | | | c | 1.52 | 240.00 | 245.00 | 73.2 | 74.7 | 1.52 | 38.1 | 12.5 | 3 | 25 | 19 | 6 | 147 | 80 | - |
| 76.2 | | | c | 1.52 | 245.00 | 250.00 | 74.7 | 76.2 | 1.52 | 38.1 | 7.2 | 3 | 21 | 11 | 10 | 150 | - | - |
| 77.7 | | | c | 1.52 | 250.00 | 255.00 | 76.2 | 77.7 | 1.52 | 38.1 | 0.0 | 3 | HF | | 0 | 40 | 150 | - |
| 79.3 | | | c | 1.52 | 255.00 | 260.00 | 77.7 | 79.3 | 1.52 | 38.1 | 17.1 | 3 | 30 | 26 | 4 | 60 | 45 | - |
| 80.8 | | | c | 1.52 | 260.00 | 265.00 | 79.3 | 80.8 | 1.52 | 38.1 | 9.2 | 3 | 21 | 14 | 7 | 80 | 120 | - |
| 82.3 | | | c | 1.52 | 265.00 | 270.00 | 80.8 | 82.3 | 1.52 | 38.1 | 0.0 | 3 | HF | | 15 | - | - | - |
| 83.8 | | | c | 1.52 | 270.00 | 275.00 | 82.3 | 83.8 | 1.52 | 38.1 | 16.4 | 3 | 28 | 25 | 3 | 60 | 145 | - |
| 85.4 | | | c | 1.52 | 275.00 | 280.00 | 83.8 | 85.4 | 1.52 | 38.1 | 9.8 | 3 | 22 | 15 | 7 | 25 | 135 | - |
| 86.9 | | | c | 1.52 | 280.00 | 285.00 | 85.4 | 86.9 | 1.52 | 38.1 | 13.1 | 3 | 21 | 20 | 1 | 28 | 145 | 10 |
| 88.4 | | | c | 1.52 | 285.00 | 290.00 | 86.9 | 88.4 | 1.52 | 38.1 | 21.0 | 3 | 37 | 32 | 5 | 120 | - | - |
| 89.9 | | | c | 1.52 | 290.00 | 295.00 | 88.4 | 89.9 | 1.52 | 38.1 | 6.6 | 3 | 14 | 10 | 4 | 140 | 50 | - |
| 91.5 | | | c | 1.52 | 295.00 | 300.00 | 89.9 | 91.5 | 1.52 | 38.1 | 7.2 | 3 | 14 | 11 | 3 | 130 | - | - |
| 93.0 | | | c | 1.52 | 300.00 | 305.00 | 91.5 | 93.0 | 1.52 | 38.1 | 7.9 | 2 | 13 | 12 | 1 | 0 | - | - |
| 93.6 | | | c | 0.61 | 305.00 | 307.00 | 93.0 | 93.6 | 0.61 | 15.2 | 0.0 | 2 | HF | | 0 | - | - | - |
| 94.4 | | pegmatitic dyke | p | 0.76 | 307.00 | 309.50 | 93.6 | 94.4 | 0.76 | 19.1 | 18.4 | 3 | 14 | 14 | 0 | 135 | 55 | - |
| 94.8 | | weathered granodiorite | c | 0.46 | 309.50 | 311.00 | 94.4 | 94.8 | 0.46 | 11.4 | 0.0 | 2 | HF | | 0 | - | - | - |

HARDNESS: 1 2 3 4 5

FRACTURE DENSITY (fractures per metre): 5 10 15 20

HF highly fractured

Grain Size: a = aphanitic; f = fine; m = medium; c = coarse; p = pegmatite.

| | | | |
|---|---|---|---|
| PROJECT: Minto Copper Mine | CLIENT: Sherwood Mining | | BOREHOLE NO.: 05-SWC-049 |
| EBA PROJECT NO.: 1200173 | UTM ZONE: 8 | NORTHING: 6945274 | DATE LOGGED: Nov. 24 - 25, 2005 |
| LOCATION: Minto, Yukon | | EASTING: 384780 | ELEVATION of COLLAR: 850 m |
| | CORE: HQ | BOREHOLE DIP: -50 | DRILL TYPE: Val Dor |
| | | | LOGGED BY: K.E.Kennedy |

PEGMATITIC GRANODIORITE | DATA ENTRY | AUTOMATIC CALCULATION | FOLIATED GRANODIORITE | DYKES

| DEPTH (m) | LITHOLOGY | DESCRIPTION | GRAIN SIZE | INTERVAL (m) | Depth (ft) start | Depth (ft) end | Depth (m) start | Depth (m) end | Interval (m) | Row Height | FRACTURE DENSITY | HARDNESS | DISCONTINUITY DATA: Total No. of Fractures | Natural | Drill Induced | FRACTURE ANGLES a | FRACTURE ANGLES b | FRACTURE ANGLES III | HARDNESS 1 2 3 4 5 | FRACTURE DENSITY (fractures per metre) 5 10 15 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 98.2 | | foliated granodiorite | m | 3.35 | 311.00 | 322.00 | 94.8 | 98.2 | 3.35 | 83.8 | 8.1 | 3 | 29 | 27 | 2 | 137 | 40 | - | | |
| 100.6 | | granodiorite | c | 2.44 | 322.00 | 330.00 | 98.2 | 100.6 | 2.44 | 61.0 | 6.2 | 2 | 18 | 15 | 3 | 0 | 75 | - | | |
| 102.7 | | | c | 2.13 | 330.00 | 337.00 | 100.6 | 102.7 | 2.13 | 53.4 | 7.5 | 2 | 21 | 16 | 5 | 0 | 15 | - | | |
| 103.7 | | | c | 0.91 | 337.00 | 340.00 | 102.7 | 103.7 | 0.91 | 22.9 | 0.0 | 1 | HF | | 0 | - | - | - | | |
| 105.2 | | | c | 1.52 | 340.00 | 345.00 | 103.7 | 105.2 | 1.52 | 38.1 | 0.0 | 1 | HF | | 0 | - | - | - | | |
| 106.7 | | | c | 1.52 | 345.00 | 350.00 | 105.2 | 106.7 | 1.52 | 38.1 | 10.5 | 2 | 16 | 16 | 0 | 140 | - | - | | |
| 108.2 | | | c | 1.52 | 350.00 | 355.00 | 106.7 | 108.2 | 1.52 | 38.1 | 5.9 | 2 | 10 | 9 | 1 | 35 | 55 | 0 | | |
| 109.8 | | | c | 1.52 | 355.00 | 360.00 | 108.2 | 109.8 | 1.52 | 38.1 | 0.0 | 1 | HF | | 0 | 130 | - | - | | |
| 111.3 | | weathered granodiorite | c | 1.52 | 360.00 | 365.00 | 109.8 | 111.3 | 1.52 | 38.1 | 26.2 | 1 | 40 | 40 | 0 | 70 | 40 | - | | |
| 112.8 | | | c | 1.52 | 365.00 | 370.00 | 111.3 | 112.8 | 1.52 | 38.1 | 22.3 | 1 | 34 | 34 | 0 | 35 | - | - | | |
| 114.3 | | | c | 1.52 | 370.00 | 375.00 | 112.8 | 114.3 | 1.52 | 38.1 | 19.0 | 2 | 31 | 29 | 2 | 165 | 52 | - | | |
| 115.9 | | granodiorite | c | 1.52 | 375.00 | 380.00 | 114.3 | 115.9 | 1.52 | 38.1 | 3.9 | 2 | 10 | 6 | 4 | 127 | 15 | - | | |
| 117.4 | | | c | 1.52 | 380.00 | 385.00 | 115.9 | 117.4 | 1.52 | 38.1 | 0.0 | 1 | HF | | 0 | 65 | - | - | | |
| 118.9 | | | c | 1.52 | 385.00 | 390.00 | 117.4 | 118.9 | 1.52 | 38.1 | 0.0 | 1 | HF | | 0 | 25 | - | - | | |
| 120.4 | | | c | 1.52 | 390.00 | 395.00 | 118.9 | 120.4 | 1.52 | 38.1 | 2.6 | 2 | 9 | 4 | 5 | 145 | - | - | | |
| 122.0 | | | c | 1.52 | 395.00 | 400.00 | 120.4 | 122.0 | 1.52 | 38.1 | 3.9 | 2 | 21 | 6 | 15 | 115 | 50 | - | | |
| 123.5 | | | c | 1.52 | 400.00 | 405.00 | 122.0 | 123.5 | 1.52 | 38.1 | 5.2 | 2 | 16 | 8 | 8 | 120 | 85 | - | | |
| 125.0 | | | c | 1.52 | 405.00 | 410.00 | 123.5 | 125.0 | 1.52 | 38.1 | 4.6 | 2 | 11 | 7 | 4 | 120 | 32 | - | | |
| 126.5 | | | c | 1.52 | 410.00 | 415.00 | 125.0 | 126.5 | 1.52 | 38.1 | 5.2 | 2 | 15 | 8 | 7 | 30 | 137 | - | | |
| 128.0 | | | c | 1.52 | 415.00 | 420.00 | 126.5 | 128.0 | 1.52 | 38.1 | 9.2 | 2 | 16 | 14 | 2 | 140 | 45 | - | | |
| 129.6 | | | c | 1.52 | 420.00 | 425.00 | 128.0 | 129.6 | 1.52 | 38.1 | 7.2 | 2 | 12 | 11 | 1 | 61 | 150 | - | | |
| 131.1 | | | c | 1.52 | 425.00 | 430.00 | 129.6 | 131.1 | 1.52 | 38.1 | 13.8 | 2 | 23 | 21 | 2 | 30 | 130 | - | | |
| 131.9 | | | c | 0.82 | 430.00 | 432.70 | 131.1 | 131.9 | 0.82 | 20.6 | 9.7 | 2 | 8 | 8 | 0 | 165 | 27 | - | | |
| 132.9 | | fault gouge | a | 0.93 | 432.70 | 435.75 | 131.9 | 132.9 | 0.93 | 23.2 | 0.0 | 1 | HF | | 0 | 40 | - | - | | |
| 134.1 | | foliated granodiorite | m | 1.30 | 435.75 | 440.00 | 132.9 | 134.1 | 1.30 | 32.4 | 8.5 | 2 | 14 | 11 | 3 | 170 | 140 | 25 | | |
| 135.7 | | | c | 1.52 | 440.00 | 445.00 | 134.1 | 135.7 | 1.52 | 38.1 | 18.4 | 2 | 29 | 28 | 1 | 25 | 145 | - | | |

HF highly fractured

Grain Size: a = aphanitic; f = fine; m = medium; c = coarse; p = pegmatite.

| | | | |
|---|---|---|---|
| PROJECT: Minto Copper Mine | CLIENT: Sherwood Mining | | BOREHOLE NO.: 05-SWC-049 |
| EBA PROJECT NO.: 1200173 | UTM ZONE: 8 | NORTHING: 6945274 | DATE LOGGED: Nov. 24 - 25, 2005 |
| LOCATION: Minto, Yukon | CORE: HQ | EASTING: 384780 | ELEVATION of COLLAR: 850 m |
| | | BOREHOLE DIP: -50 | DRILL TYPE: Val Dor |
| | | | LOGGED BY: K.E.Kennedy |

PEGMATITIC GRANODIORITE | DATA ENTRY | AUTOMATIC CALCULATION | FOLIATED GRANODIORITE | DYKES

| DEPTH (m) | LITHOLOGY | DESCRIPTION | GRAIN SIZE | INTERVAL (m) | Depth (ft) start | Depth (ft) end | Depth (m) start | Depth (m) end | Interval (m) | Row Height | FRACTURE DENSITY | HARDNESS | DISCONTINUITY DATA: Total No. of Fractures | Natural | Drill Induced | FRACTURE ANGLES a | FRACTURE ANGLES b | FRACTURE ANGLES III | HARDNESS 1 2 3 4 5 | FRACTURE DENSITY (fractures per metre) 5 10 15 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 137.2 | | | c | 1.52 | 445.00 | 450.00 | 135.7 | 137.2 | 1.52 | 38.1 | 0.0 | 2 | HF | | 0 | 145 | - | - | | |
| 138.7 | | | c | 1.52 | 450.00 | 455.00 | 137.2 | 138.7 | 1.52 | 38.1 | 28.9 | 2 | 44 | 44 | 0 | 25 | 160 | - | | |
| 140.2 | | | c | 1.52 | 455.00 | 460.00 | 138.7 | 140.2 | 1.52 | 38.1 | 0.0 | 2 | HF | | 0 | 155 | 30 | 60 | | |
| 141.8 | | | c | 1.52 | 460.00 | 465.00 | 140.2 | 141.8 | 1.52 | 38.1 | 0.0 | 2 | HF | | 0 | 155 | 23 | - | | |
| 143.3 | | | c | 1.52 | 465.00 | 470.00 | 141.8 | 143.3 | 1.52 | 38.1 | 19.0 | 2 | 30 | 29 | 1 | 25 | 150 | - | | |
| 143.8 | | mafic dyke | m | 0.46 | 470.00 | 471.50 | 143.3 | 143.8 | 0.46 | 11.4 | 37.2 | 3 | 17 | 17 | 0 | 130 | - | - | | |
| 144.8 | | foliated granodiorite | c | 1.07 | 471.50 | 475.00 | 143.8 | 144.8 | 1.07 | 26.7 | 14.1 | 3 | 18 | 15 | 3 | 145 | - | - | | |
| 146.3 | | | c | 1.52 | 475.00 | 480.00 | 144.8 | 146.3 | 1.52 | 38.1 | 23.0 | 2 | 45 | 35 | 10 | 140 | 40 | - | | |
| 147.9 | | | c | 1.52 | 480.00 | 485.00 | 146.3 | 147.9 | 1.52 | 38.1 | 25.6 | 2 | 40 | 39 | 1 | 41 | 137 | - | | |
| 149.4 | | | c | 1.52 | 485.00 | 490.00 | 147.9 | 149.4 | 1.52 | 38.1 | 12.5 | 2 | 24 | 19 | 5 | 25 | 150 | - | | |
| 150.9 | | | c | 1.52 | 490.00 | 495.00 | 149.4 | 150.9 | 1.52 | 38.1 | 0.0 | 2 | HF | | 0 | 45 | 15 | - | | |
| 152.4 | | | c | 1.52 | 495.00 | 500.00 | 150.9 | 152.4 | 1.52 | 38.1 | 0.0 | 2 | HF | | 0 | 140 | 127 | - | | |
| 154.0 | | | c | 1.52 | 500.00 | 505.00 | 152.4 | 154.0 | 1.52 | 38.1 | 13.8 | 2 | 24 | 21 | 3 | 0 | - | - | | |
| 155.5 | | | c | 1.52 | 505.00 | 510.00 | 154.0 | 155.5 | 1.52 | 38.1 | 16.4 | 2 | 29 | 25 | 4 | 0 | 110 | - | | |
| 157.0 | | | c | 1.52 | 510.00 | 515.00 | 155.5 | 157.0 | 1.52 | 38.1 | 18.4 | 2 | 33 | 28 | 5 | 40 | 130 | - | | |
| 158.5 | | | c | 1.52 | 515.00 | 520.00 | 157.0 | 158.5 | 1.52 | 38.1 | 5.2 | 2 | 21 | 8 | 13 | 130 | 0 | - | | |
| 160.1 | | pegmatitic dyke | p | 1.52 | 520.00 | 525.00 | 158.5 | 160.1 | 1.52 | 38.1 | 9.8 | 3 | 18 | 15 | 3 | 125 | 20 | - | | |
| 161.6 | | foliated granodiorite | c | 1.52 | 525.00 | 530.00 | 160.1 | 161.6 | 1.52 | 38.1 | 12.5 | 2 | 21 | 19 | 2 | 0 | 140 | 25 | | |
| 163.1 | | | c | 1.52 | 530.00 | 535.00 | 161.6 | 163.1 | 1.52 | 38.1 | 28.2 | 2 | 43 | 43 | 0 | 125 | - | - | | |
| 164.6 | | | c | 1.52 | 535.00 | 540.00 | 163.1 | 164.6 | 1.52 | 38.1 | 9.2 | 2 | 14 | 14 | 0 | 27 | 155 | - | | |
| 165.4 | | | c | 0.76 | 540.00 | 542.50 | 164.6 | 165.4 | 0.76 | 19.1 | 34.1 | 2 | 26 | 26 | 0 | 35 | 150 | - | | |
| 167.7 | | foliated diorite | c | 2.29 | 542.50 | 550.00 | 165.4 | 167.7 | 2.29 | 57.2 | 7.9 | 2 | 23 | 18 | 5 | 30 | 0 | - | | |
| 169.2 | | | c | 1.52 | 550.00 | 555.00 | 167.7 | 169.2 | 1.52 | 38.1 | 2.6 | 2 | 11 | 4 | 7 | - | - | - | | |
| 170.7 | | granodiorite w/ minor pegmatitic and mafic dykes | c | 1.52 | 555.00 | 560.00 | 169.2 | 170.7 | 1.52 | 38.1 | 1.3 | 2 | 15 | 2 | 13 | 130 | - | - | | |
| 172.3 | | | c | 1.52 | 560.00 | 565.00 | 170.7 | 172.3 | 1.52 | 38.1 | 5.2 | 3 | 15 | 8 | 7 | 25 | 140 | - | | |
| 173.8 | | | c | 1.52 | 565.00 | 570.00 | 172.3 | 173.8 | 1.52 | 38.1 | 2.6 | 3 | 11 | 4 | 7 | 0 | 20 | 135 | | |
| 175.3 | | | c | 1.52 | 570.00 | 575.00 | 173.8 | 175.3 | 1.52 | 38.1 | 1.3 | 3 | 11 | 2 | 9 | 0 | 35 | | | |
| 176.8 | | | c | 1.52 | 575.00 | 580.00 | 175.3 | 176.8 | 1.52 | 38.1 | 9.8 | 3 | 17 | 15 | 2 | 160 | 15 | 50 | | |

HF highly fractured

Grain Size: a = aphanitic; f = fine; m = medium; c = coarse; p = pegmatite.

| | | | |
|---|---|---|---|
| PROJECT: Minto Copper Mine | CLIENT: Sherwood Mining | | BOREHOLE NO.: 05-SWC-049 |
| EBA PROJECT NO.: 1200173 | UTM ZONE: 8 | NORTHING: 6945274 | DATE LOGGED: Nov. 24 - 25, 2005 |
| LOCATION: Minto, Yukon | CORE: HQ | EASTING: 384780 | ELEVATION of COLLAR: 850 m |
| | | BOREHOLE DIP: -50 | DRILL TYPE: Val Dor |
| | | | LOGGED BY: K.E.Kennedy |

PEGMATITIC GRANODIORITE | DATA ENTRY | AUTOMATIC CALCULATION | FOLIATED GRANODIORITE | DYKES

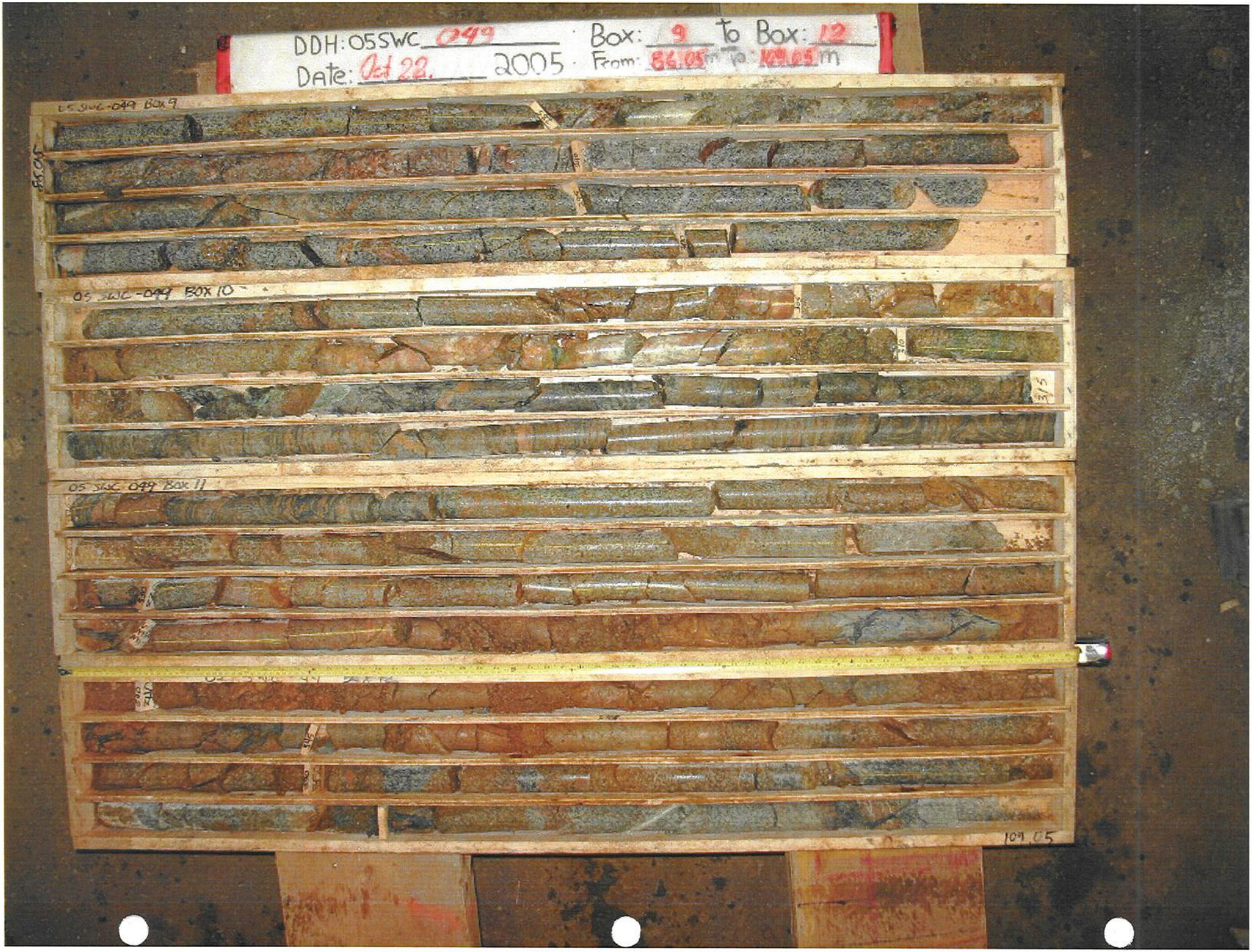
| DEPTH (m) | LITHOLOGY | DESCRIPTION | GRAIN SIZE | INTERVAL (m) | Depth (ft) start | Depth (ft) end | Depth (m) start | Depth (m) end | Interval (m) | Row Height | FRACTURE DENSITY | HARDNESS | DISCONTINUITY DATA: Total No. of Fractures | Natural | Drill Induced | FRACTURE ANGLES a | FRACTURE ANGLES b | FRACTURE ANGLES III | HARDNESS 1 2 3 4 5 | FRACTURE DENSITY (fractures per metre) 5 10 15 20 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 178.4 | | | c | 1.52 | 580.00 | 585.00 | 176.8 | 178.4 | 1.52 | 38.1 | 7.2 | 3 | 15 | 11 | 4 | 0 | 150 | - | | |
| 179.9 | | | c | 1.52 | 585.00 | 590.00 | 178.4 | 179.9 | 1.52 | 38.1 | 4.6 | 3 | 13 | 7 | 6 | 40 | 178 | - | | |
| 181.4 | | | c | 1.52 | 590.00 | 595.00 | 179.9 | 181.4 | 1.52 | 38.1 | 3.3 | 3 | 12 | 5 | 7 | 25 | - | - | | |
| 182.9 | | | c | 1.52 | 595.00 | 600.00 | 181.4 | 182.9 | 1.52 | 38.1 | 9.2 | 3 | 19 | 14 | 5 | 140 | 20 | - | | |
| 184.5 | | | c | 1.52 | 600.00 | 605.00 | 182.9 | 184.5 | 1.52 | 38.1 | 5.2 | 3 | 13 | 8 | 5 | 170 | 50 | - | | |
| 186.0 | | | c | 1.52 | 605.00 | 610.00 | 184.5 | 186.0 | 1.52 | 38.1 | 11.2 | 3 | 20 | 17 | 3 | 50 | 0 | 110 | | |
| 187.5 | | | c | 1.52 | 610.00 | 615.00 | 186.0 | 187.5 | 1.52 | 38.1 | 6.6 | 3 | 15 | 10 | 5 | 35 | - | - | | |
| 189.0 | | | c | 1.52 | 615.00 | 620.00 | 187.5 | 189.0 | 1.52 | 38.1 | 8.5 | 3 | 18 | 13 | 5 | 115 | 15 | - | | |
| 190.5 | | | c | 1.52 | 620.00 | 625.00 | 189.0 | 190.5 | 1.52 | 38.1 | 15.1 | 3 | 34 | 23 | 11 | 155 | 60 | 0 | | |
| 192.1 | | | c | 1.52 | 625.00 | 630.00 | 190.5 | 192.1 | 1.52 | 38.1 | 4.6 | 3 | 13 | 7 | 6 | 135 | 45 | - | | |
| 193.6 | | | c | 1.52 | 630.00 | 635.00 | 192.1 | 193.6 | 1.52 | 38.1 | 7.2 | 3 | 15 | 11 | 4 | 50 | 140 | - | | |
| 195.1 | | | c | 1.52 | 635.00 | 640.00 | 193.6 | 195.1 | 1.52 | 38.1 | 9.2 | 3 | 23 | 14 | 9 | 50 | 0 | - | | |
| 196.6 | | | c | 1.52 | 640.00 | 645.00 | 195.1 | 196.6 | 1.52 | 38.1 | 5.2 | 3 | 14 | 8 | 6 | 10 | 15 | - | | |
| 198.2 | | | c | 1.52 | 645.00 | 650.00 | 196.6 | 198.2 | 1.52 | 38.1 | 9.8 | 3 | 17 | 15 | 2 | 90 | 45 | - | | |
| 199.7 | | | c | 1.52 | 650.00 | 655.00 | 198.2 | 199.7 | 1.52 | 38.1 | 13.8 | 3 | 23 | 21 | 2 | 90 | 130 | - | | |
| 201.2 | | | c | 1.52 | 655.00 | 660.00 | 199.7 | 201.2 | 1.52 | 38.1 | 4.6 | 3 | 12 | 7 | 5 | 110 | 0 | 135 | | |
| 202.7 | | | c | 1.52 | 660.00 | 665.00 | 201.2 | 202.7 | 1.52 | 38.1 | 9.8 | 3 | 21 | 15 | 6 | 0 | 50 | - | | |
| 203.4 | | | c | 0.61 | 665.00 | 667.00 | 202.7 | 203.4 | 0.61 | 15.2 | 3.3 | 3 | 3 | 2 | 1 | 20 | - | - | | |

HF highly fractured

Grain Size: a = aphanitic; f = fine; m = medium; c = coarse; p = pegmatite.

DDH: 05SWC 049
Box: 1 to Box: 4
Date: Oct 22, 2005
From: 0 m To: 62.48 m
05-05 VGA-049 BOX 5

DDH: 05SWC 049
Box: 5 to Box: 8
Date: Oct 28, 2005
From: 62.48m To: 96.05m
05-05 SWC-49 BOX 5
215
220
225
05 SWC-49 BOX 6
05-05 SWC-49 BOX 7
250
255
05 SWC 049 BOX 8


DDH: 05SWC 049 Box: 9 to Box: 12
Date: Oct 22. 2005 From: 86.05 m to 109.05 m
05 SWC-049 BOX 9
05 SWC-049 BOX 10
05 SWC 049 BOX 11
109.05

DDH: 05SWC 049
Box: 12 to Box: 15
Date: Oct 23, 2005
From: 109.05 m To: 131.06 m
05 SWC 049 BOX 12
05 - SWC -49 BOX 14
05-SWC-049 BOX 15
130
131.06

DDH: 05SWC 049 Box: 17 to Box: 20
Date: Oct 23, 2005 From: 134.06 m to: 152.47 m
05 SWC 049 BOX 17
05 SWC 049 BOX 18
05 SWC 049 BOX # 19
05 SWC 049 BOX 20

DDH: 05SWC 049 Box: 21 to Box: 24
Date: Oct 23, 2005 From: 154.47 m To 178.56 m
05-SWC-049 BOX 21
05 SWC-049 BOX 22
05-SWC-049 BOX 23 24

DDH: 05SWC 049 Box: 25 to Box: 29
Date: Oct 23. 2005 From: 177.55m To: 203.30m
05-SWC-049 BOX 24
05-SWC-049 BOX 25
05-SWC-049 BOX 26
05-SWC-049 BOX 27
05-SWC-049 BOX 28
667 E.O.H.

# APPENDIX

## APPENDIX E SEISMIC HAZARD ASSESSMENT – MOUNT NANSEN MINE

# Seismic Hazard Analysis for Nansen Gold Mine Area

*prepared by Alison Bird, Seismologist*

What follows is the material required to perform an evaluation of the seismic stability of the tailings dam at the Nansen Gold Mine site. The seismic activity and major faults in the area are presented, along with a probabilistic and a deterministic analysis of associated seismic hazard.

It should be noted that neither site conditions nor structural engineering are considered in this analysis.

## Tectonic Setting

Convergence between the Pacific and North American Plates, in the region of the Gulf of Alaska, produces crustal shortening and uplift which extends well into Yukon Territory and into most northwestern British Columbia (Figure 1). A great proportion of the relative motion between these plates occurs on the Queen Charlotte–Fairweather transpressional fault system and westward on the subduction zone along Alaska's south coast. Additional transform motion is accommodated along the Denali Fault, further inland in southwestern Yukon.

The Tintina Fault lies along the Tintina Trench which severs the Yukon Plateau. It is believed that this fault has been an active transform boundary for a geologically significant length of time.

## Recorded Earthquakes

All seismicity which has been located in the region between 1980 and 2000 is shown in Figure 2, with all events larger than magnitude 5 represented by a star. Figure 3 shows all located events with a magnitude of at least 5 which have occured since 1898 (when the first seismographs were installed in western North America). In both maps, the Nansen Gold Mine site is indicated with a red triangle.

Superimposed on the above maps are the primary local faults to which the deterministic analysis will be applied. The closest of these is the Denali transform Fault with the largest recorded earthquake a magnitude 6.2. Further to the southwest is the complex subduction–transform plate boundary, of which the Fairweather Fault is the surface trace of the transform component, with a magnitude 8.0 earthquake recorded in 1899. To the northeast is the Tintina Fault, with no earthquake recorded above magnitude 5.

## Probabilistic Analysis

The probabilistic analysis of the Mount Nansen site (62.10°N, 137.31°W) is a standard procedure of the Geological Survey of Canada's Seismic Risk Calculation routine. The results from this are presented in Table 1.

If this data is presented in a log-log plot, it can easily be extrapolated to determine a peak ground acceleration (PGA) of 0.27 g and peak ground velocity (PGV) of 0.61 m/s, for a return period of 10,000 years (Figure 4).

Table 1: Results of probabilistic seismic hazard calculation.

| Return Period (years) | 100 | 200 | 475 | 1,000 |
|---|---|---|---|---|
| Probability of Exceedence per annum/ Probabilité de depassement par année | 0.010 | 0.005 | 0.0021 | 0.001 |
| Probability of Exceedence in 50 years/ Probabilité de depassement en 50 ans | 40% | 22% | 10% | 5% |
| Peak Horizontal Ground Acceleration (g) | 0.058 | 0.075 | 0.096 | 0.119 |
| Peak Horizontal Ground Velocity (m/s) | 0.127 | 0.164 | 0.218 | 0.265 |

The zoning for this site, using the 1990 NBCC/CNBC, is Acceleration Zone 3, corresponding to 0.15 g; Velocity Zone 4, corresponding to 0.20 m/s. These figures are for a probablility level of 10% in 50 years.

### Deterministic Analysis

Three faults are examined as posing significant seismic threat to the Mount Nansen site (Figure 1): Fairweather, Denali, Tintina. For the purposes of evaluating the maximum potential ground motion from each of these faults, determined using fault dimensions (Adams *et al.*, 1999), the attenuation relations of Youngs *et al.* (1997) are employed. These calculations provide an *upper* limit of ground shaking. Results are given in Table 2.

The closest of the three faults is the Denali Fault at a minimum distance of 125 km from the site. With a maximum predicted magnitude of 7.3, this would provide a PGA of roughly 0.125g. The Fairweather Fault, although farther at 254 km, suggests a similar threat as the predicted maximum magnitude 8.7 event within the adjacent subduction portion of the plate boundary could induce a PGA of 0.131g.

Finally, to the other side of the site, the Tintina Fault has the same postulated maximum magnitude as the Denali Fault, but at a slightly greater distance this naturally provides a lesser threat. The fault is included in the interest of completeness.

Table 2: Results of deterministic seismic hazard calculation.

| Fault | distance to site (km) | maximum magnitude | PGA ($cm/s^2$) | PGA (g) |
|---|---|---|---|---|
| Fairweather | 254 | 8.7 | 128.11 | 0.131 |
| Denali | 125 | 7.3 | 122.76 | 0.125 |
| Tintina | 132 | 7.3 | 114.45 | 0.117 |

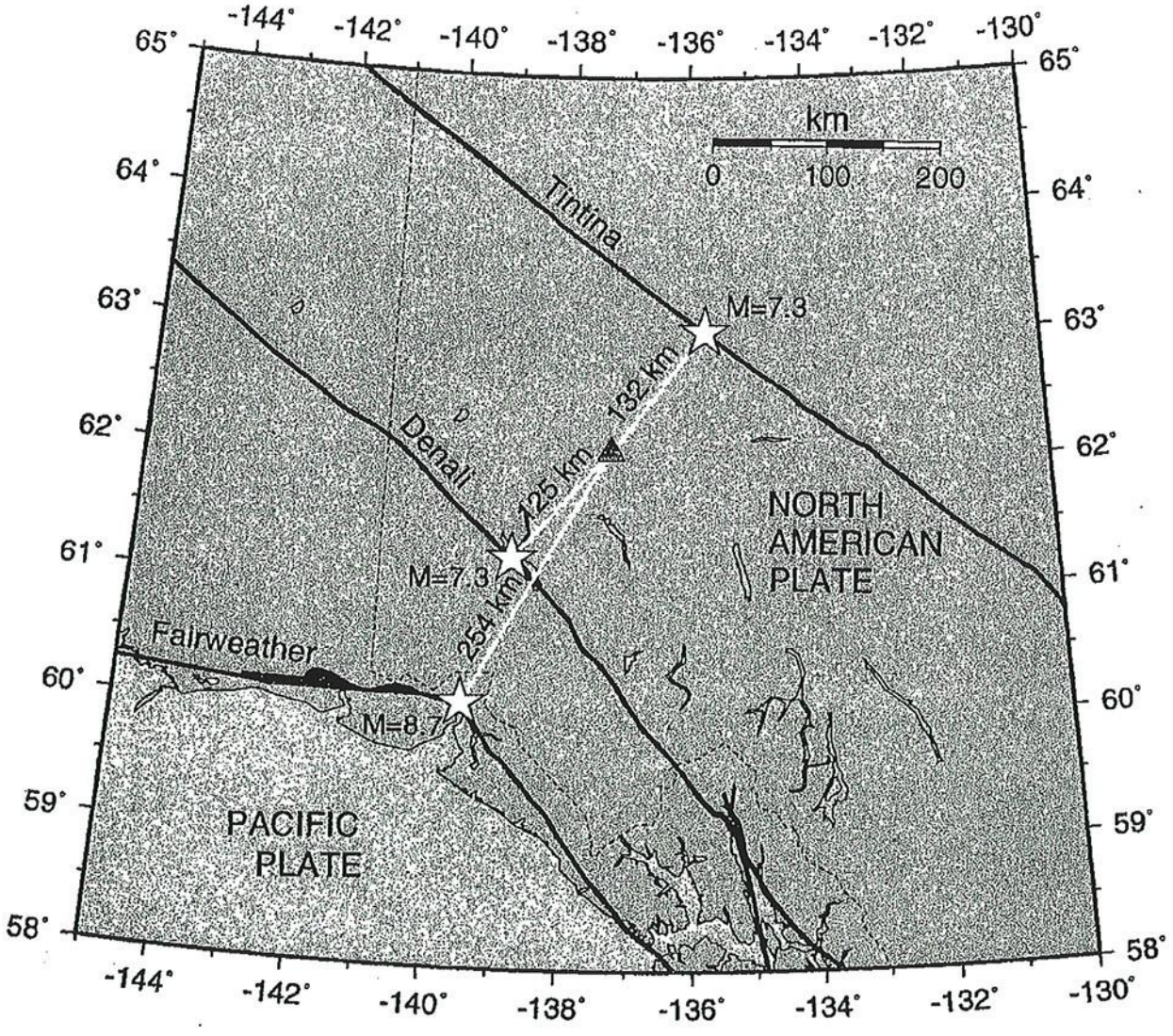



Figure 1: Tectonic setting of the Mount Nansen site, with faults of interest to a deterministic analysis of the site. Mount Nansen site is denoted by a red triangle; maximum postulated magnitude and site–fault distances are also noted.

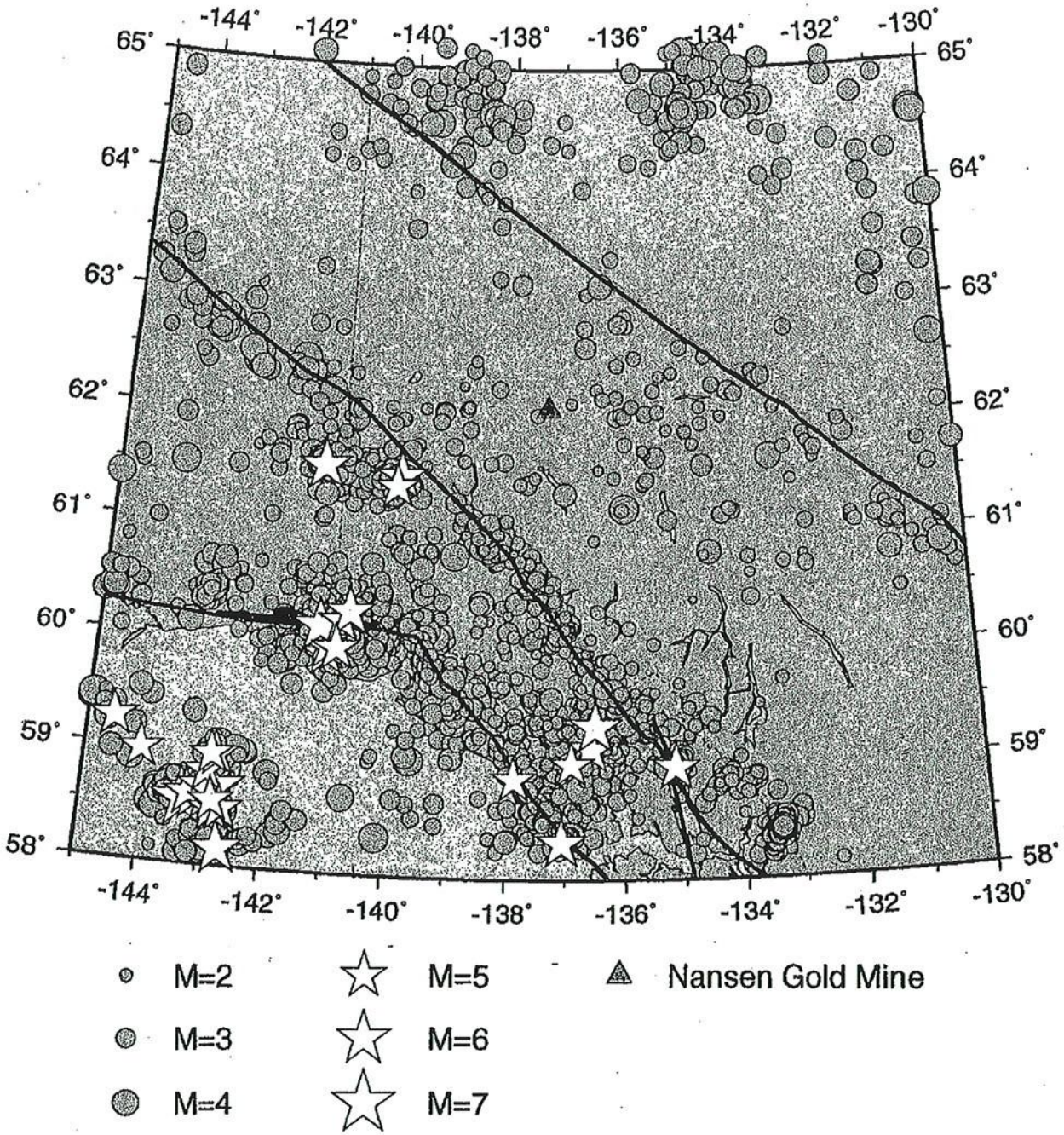



Figure 2: Map of area of study, showing seismic activity from 1980 to 2000.

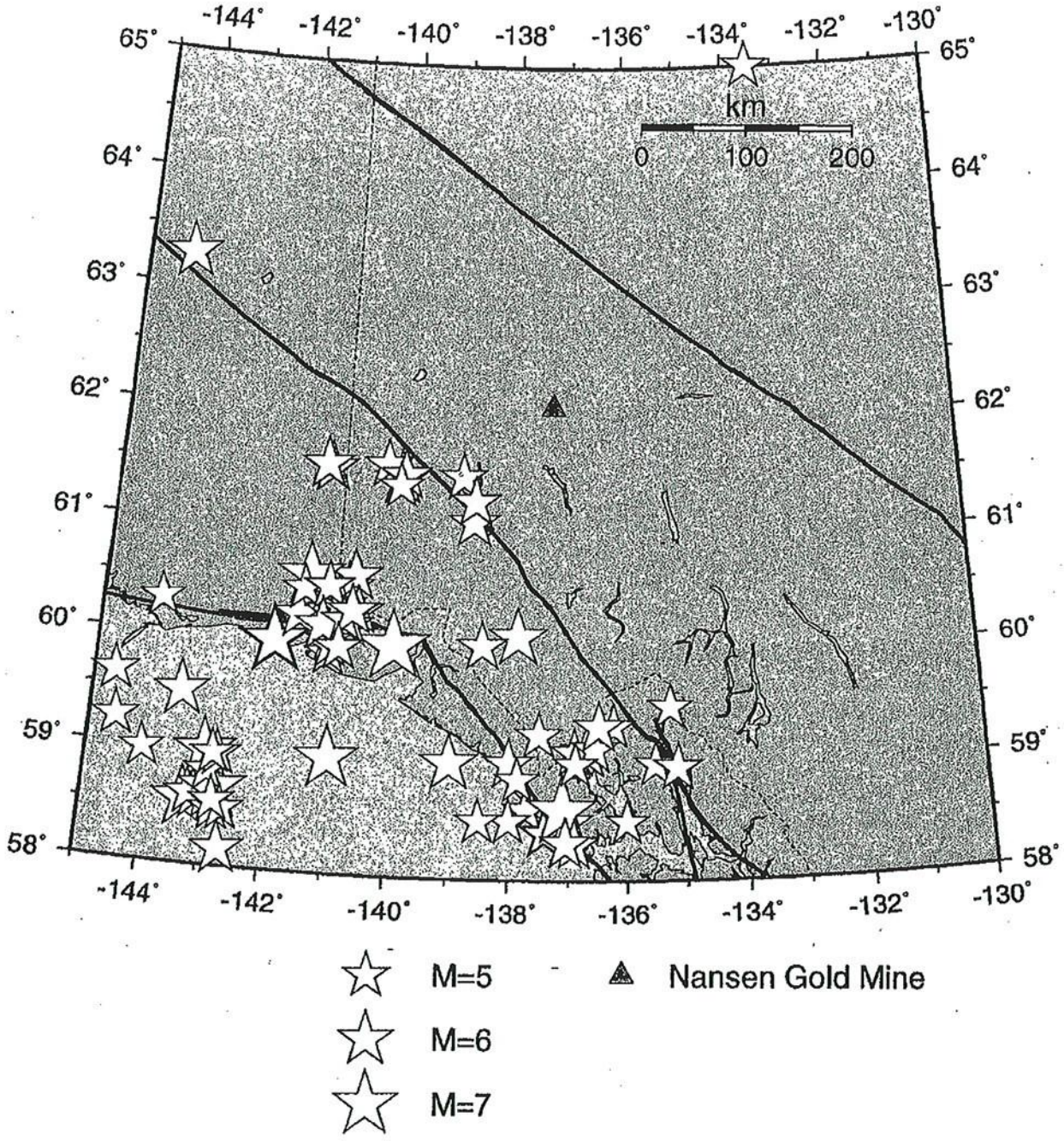



Figure 3: Area of study, showing all seismic activity of magnitude 5 and above, for the period 1898 to 2000.

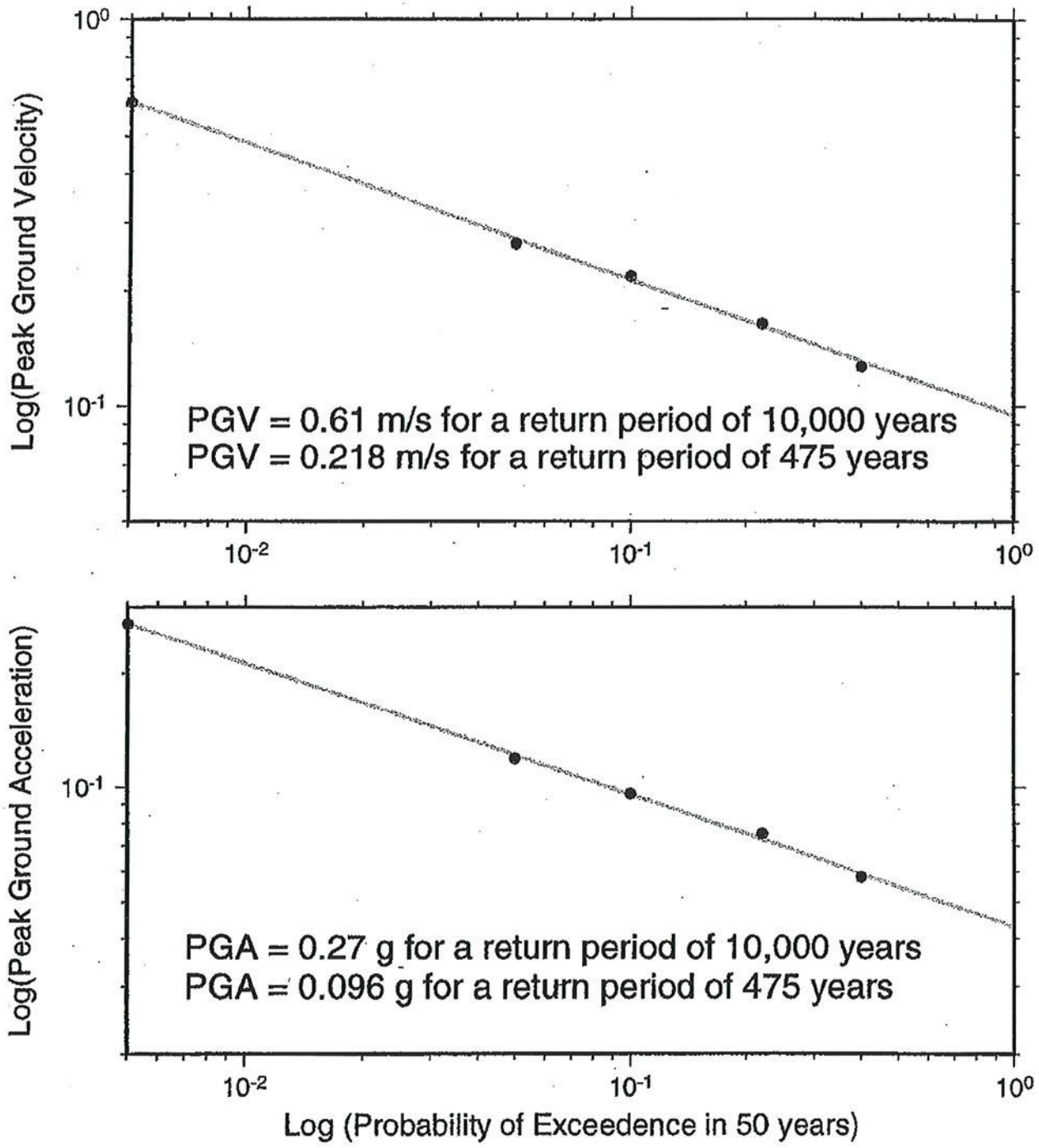



Figure 4: Log-log plots of Peak Ground Velocity and Peak Ground Acceleration versus Probablility of Exceedence.

## References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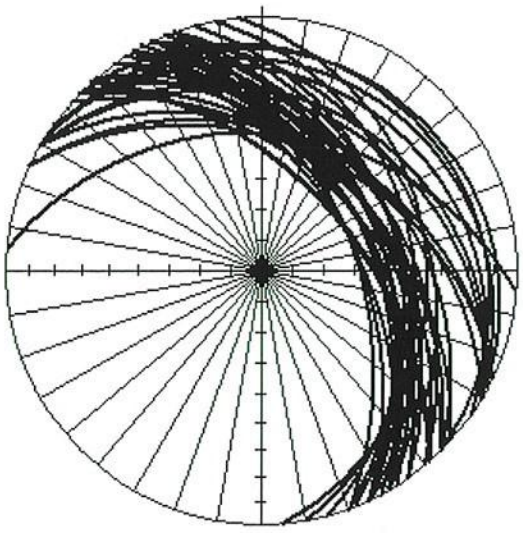
Supplement du Code National du Batiment du Canada 1990, CNRC No. 30629F. Chapitre 1: Donnes Climatiques pour le Calcul des Batiments au Canada; Chapitre 4: Commentaire J: Effets des Seismes.

# APPENDIX

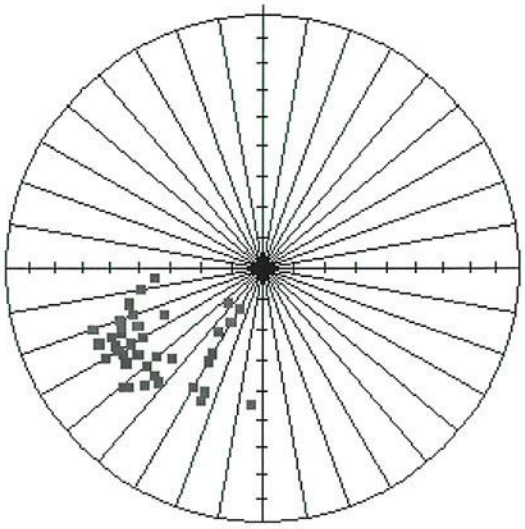
## APPENDIX F SURFACE MAPPING, ORIENTED CORE DATA AND ANALYSIS

**ORIENTATIONS FOR 05SWC-010**

**STEREONETS**

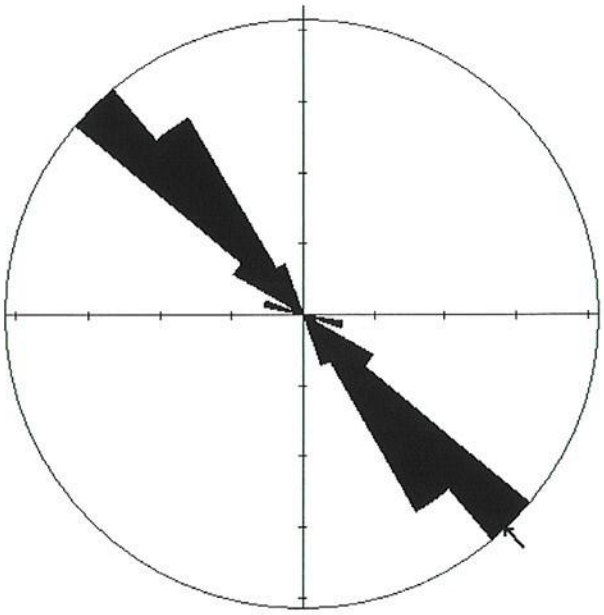


GREAT CIRCLES

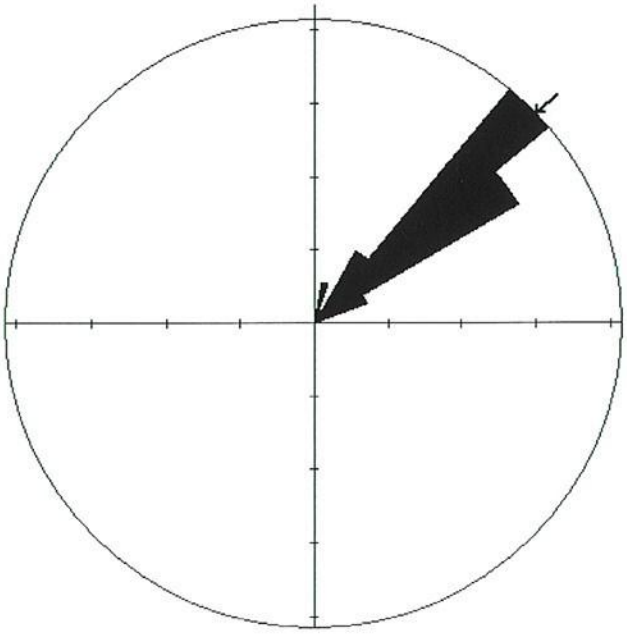


POLES

**ROSE DIAGRAMS**



PLANES



POLAR PLANES

## 05 SWC 010

| Run Depth To (m) | Run Length (m) | Alpha - Dominant | Alpha - Sub Dominant | TRUE DIP | TRUE DIP DIRECTION |
|---|---|---|---|---|---|
| 9.75 | 1.52 | 48 | 45 | 62 | 238 |
| 12.8 | 1.52 | 30 | 48 | 55 | 218 |
| 15.54 | 1.52 | 39 | 42 | 55 | 230 |
| 17.07 | 1.53 | 70 | 31 | 73 | 259 |
| 18.74 | 1.67 | 36 | 58 | 65 | 221 |
| 20.42 | 1.68 | 39 | 65 | 71 | 222 |
| 21.95 | 1.53 | 30 | 60 | 64 | 214 |
| 23.47 | 1.52 | 35 | 62 | 67 | 218 |
| 24.99 | 1.52 | 45 | 25 | 50 | 247 |
| 26.21 | 1.22 | 45 | 30 | 52 | 243 |
| 27.74 | 1.53 | 40 | 45 | 57 | 230 |
| 29.26 | 1.52 | 35 | 65 | 70 | 218 |
| 30.93 | 1.67 | 29 | 49 | 55 | 216 |
| 32.46 | 1.53 | 30 | 65 | 69 | 212 |
| 34.14 | 1.68 | 45 | 70 | 76 | 227 |
| 35.36 | 1.22 | 40 | 50 | 61 | 228 |
| 36.88 | 1.52 | 45 | 5 | 45 | 265 |
| 38.4 | 1.52 | 35 | 55 | 62 | 221 |
| 39.62 | 1.22 | 40 | 60 | 67 | 224 |
| 40.54 | 0.92 | 35 | 65 | 70 | 218 |
| 42.06 | 1.52 | 45 | 65 | 73 | 228 |
| 43.28 | 1.22 | 40 | 68 | 73 | 222 |
| 44.81 | 1.53 | 35 | 55 | 62 | 221 |
| 47.24 | 2.43 | 40 | 70 | 75 | 222 |
| 50.6 | 2.6 | 45 | 70 | 76 | 227 |
| 53.64 | 3.04 | 45 | 25 | 50 | 247 |
| 56.69 | 3.05 | 45 | 60 | 69 | 229 |
| 59.89 | 3.2 | 45 | 30 | 52 | 243 |
| 63.09 | 3.2 | 55 | 85 | 87 | 235 |
| 66.14 | 3.05 | 75 | 30 | 77 | 262 |
| 69.19 | 3.05 | 45 | 60 | 69 | 229 |
| 72.24 | 3.05 | 74 | 45 | 79 | 259 |
| 75.29 | 3.05 | 55 | 65 | 76 | 238 |
| 78.03 | 2.74 | 35 | 55 | 62 | 221 |
| 81.08 | 3.05 | 55 | 65 | 76 | 238 |
| 84.27 | 3.19 | 58 | 30 | 63 | 253 |
| 87.48 | 3.21 | 55 | 65 | 76 | 238 |
| 90.53 | 3.05 | 65 | 35 | 70 | 255 |
| 93.57 | 3.04 | 35 | 45 | 55 | 225 |
| 96.01 | 2.44 | 40 | 55 | 64 | 226 |
| 99.67 | 3.05 | 35 | 60 | 66 | 219 |
| 102.72 | 3.05 | 45 | 50 | 63 | 233 |
| 105.77 | 3.05 | 45 | 60 | 69 | 229 |
| 108.81 | 3.04 | 30 | 70 | 73 | 212 |
| 111.86 | 3.05 | 35 | 65 | 70 | 218 |
| 121.01 | 3.05 | 55 | 30 | 60 | 251 |
| 124.05 | 3.04 | 42 | 25 | 48 | 245 |
| 127.1 | 3.05 | 50 | 80 | 84 | 230 |
| 130.15 | 3.05 | 50 | 80 | 84 | 230 |
| 133.2 | 3.05 | 45 | 75 | 79 | 226 |
| 135.03 | 1.83 | 45 | 70 | 1 76 | 227 |

## 05 SWC 010

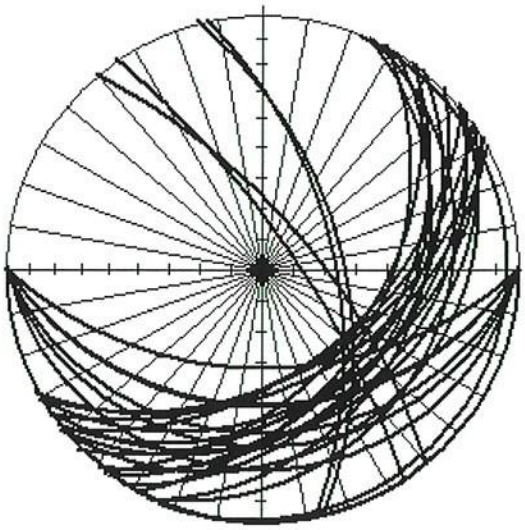
| Run Depth To (m) | Run Length (m) | Alpha - Dominant | Alpha - Sub Dominant | TRUE DIP | TRUE DIP DIRECTION |
|---|---|---|---|---|---|
| 136.25 | 1.22 | 45 | 70 | 76 | 227 |
| 139.29 | 3.04 | 45 | 70 | 76 | 227 |

## 05 SWC 010

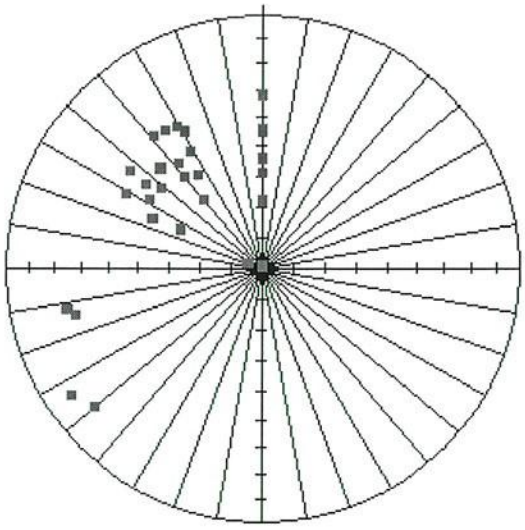
| Run Depth To (m) | Run Length (m) | Alpha - Dominant | Alpha - Sub Dominant | TRUE DIP | TRUE DIP DIRECTION |
|---|---|---|---|---|---|

**ORIENTATIONS FOR 05 SWC 022**

**STEREONETS**

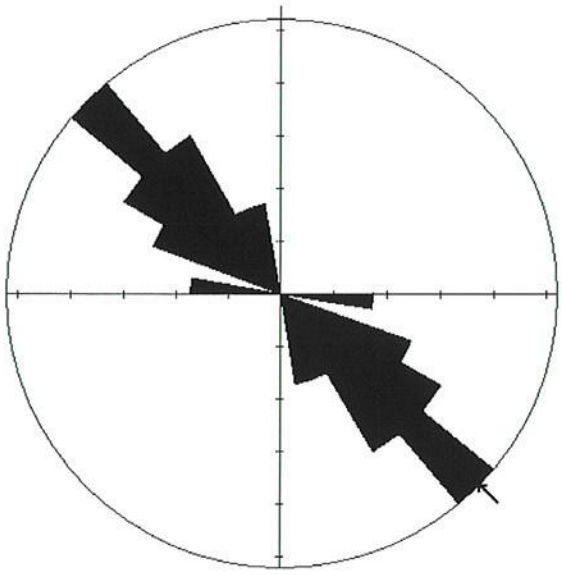


**GREAT CIRLCES**

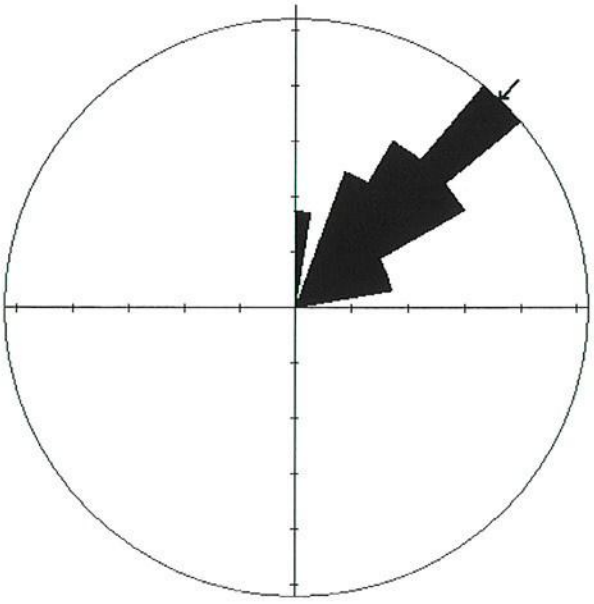


**POLES**

## ROSE DIAGRAMS



**PLANES**



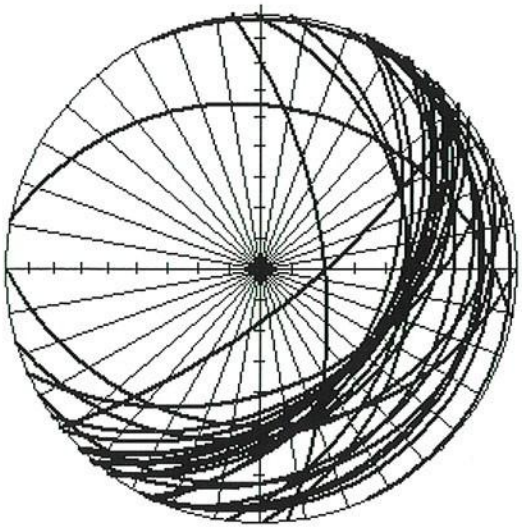
**POLAR LINES**

## 05 SWC 022

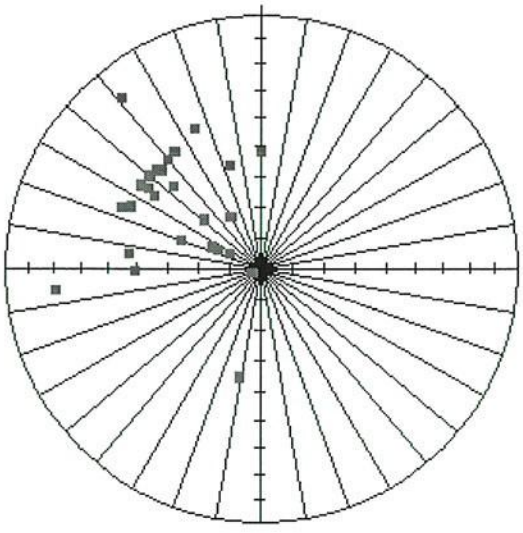
| Run Depth To (m) | Run Length (m) | Alpha - Dominant | Alpha - Sub Dominant | TRUE DIP | TRUE DIP DIRECTION |
|---|---|---|---|---|---|
| 63.09 | 1.22 | 23 | 78 | 67 | 78 |
| 64.62 | 1.53 | 45 | 149 | 45 | 149 |
| 65.53 | 0.91 | 16 | 50 | 74 | 50 |
| 69.19 | 1.72 | 26 | 76 | 64 | 76 |
| 70.71 | 1.52 | 51 | 140 | 39 | 140 |
| 72.24 | 1.53 | 11 | 56 | 79 | 56 |
| 74.07 | 1.53 | 44 | 180 | 46 | 180 |
| 75.59 | 1.52 | 68 | 180 | 22 | 180 |
| 77.11 | 1.52 | 43 | 126 | 47 | 126 |
| 81.69 | 1.53 | 51 | 115 | 39 | 115 |
| 83.21 | 1.52 | 61 | 116 | 29 | 116 |
| 84.73 | 1.52 | 53 | 146 | 37 | 146 |
| 86.26 | 1.53 | 47 | 122 | 43 | 122 |
| 90.83 | 1.52 | 36 | 127 | 54 | 127 |
| 92.35 | 1.52 | 59 | 180 | 31 | 180 |
| 93.88 | 1.53 | 45 | 180 | 45 | 180 |
| 98.45 | 1.52 | 48 | 129 | 42 | 129 |
| 99.97 | 1.52 | 33 | 141 | 57 | 141 |
| 101.5 | 1.53 | 85 | 113 | 5 | 113 |
| 103.02 | 1.52 | 180 | 32 | 58 | 180 |
| 104.55 | 1.53 | 38 | 151 | 52 | 151 |
| 106.07 | 1.52 | 180 | 89 | 1 | 180 |
| 107.29 | 1.22 | 61 | 140 | 29 | 140 |

## ORIENTATIONS FOR 05 SWC 028

## STEREONETS

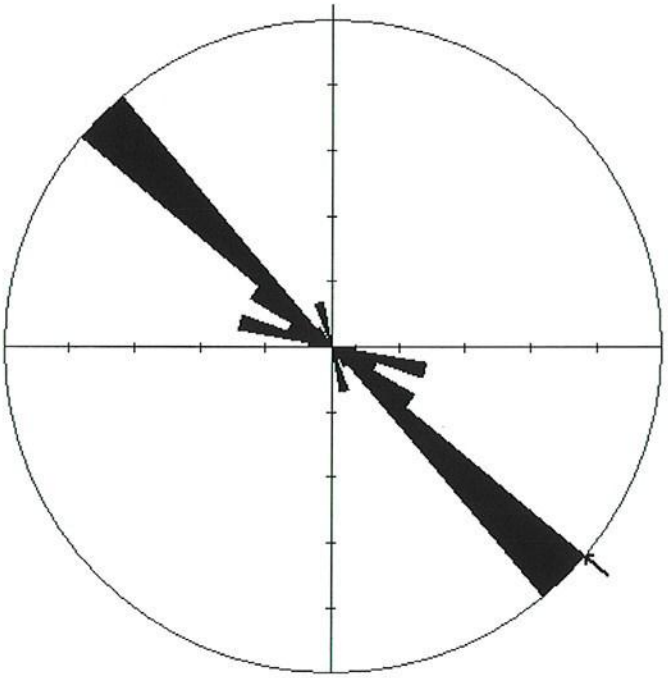


**GREAT CIRCLES**

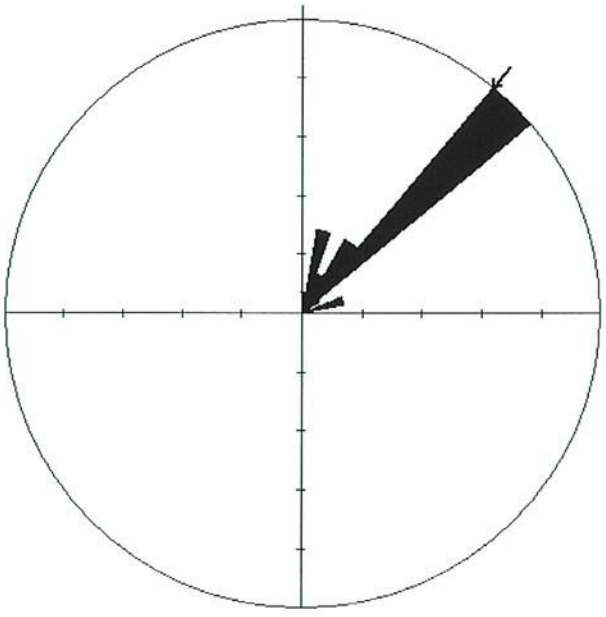


**POLARS**

## ROSE DIAGRAMS



**PLANES**



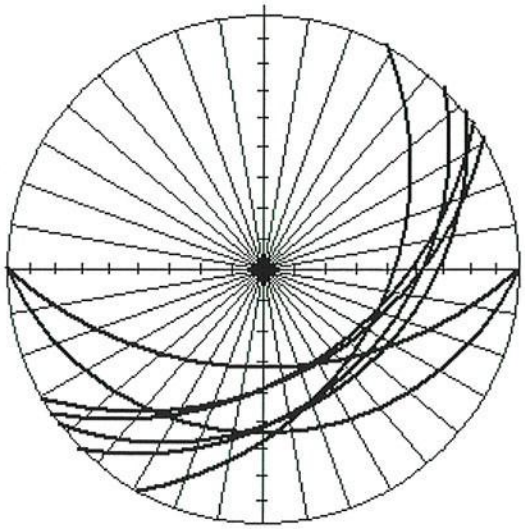
**POLAR PLANES**

## 05 SWC 028

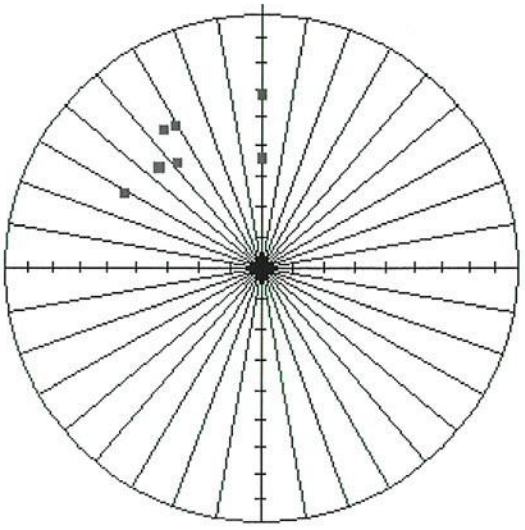
| Run Depth To (m) | Run Length (m) | Alpha - Dominant | Alpha - Sub Dominant | TRUE DIP | TRUE DIP DIRECTION |
|---|---|---|---|---|---|
| 73.76 | 1.52 | 73 | 115 | 17 | 115 |
| 75.59 | 1.83 | 87 | 65 | 3 | 65 |
| 79.86 | 1.68 | 63 | 110 | 27 | 110 |
| 82.91 | 1.53 | 51 | 134 | 39 | 134 |
| 84.12 | 1.21 | 47 | 97 | 43 | 97 |
| 85.95 | 1.52 | 79 | 117 | 11 | 117 |
| 86.87 | 0.92 | 66 | 131 | 24 | 131 |
| 90.53 | 2.14 | 42 | 144 | 48 | 144 |
| 91.44 | 0.91 | 43 | 134 | 47 | 134 |
| 93.27 | 1.83 | 43 | 116 | 47 | 116 |
| 94.18 | 0.91 | 55 | 163 | 35 | 163 |
| 97.23 | 1.52 | 20 | 84 | 70 | 84 |
| 99.97 | 1.52 | 42 | 125 | 48 | 125 |
| 101.19 | 1.22 | 75 | 115 | 15 | 115 |
| 102.72 | 1.53 | 39 | 155 | 51 | 155 |
| 104.24 | 1.52 | 71 | 150 | 19 | 150 |
| 105.77 | 1.53 | 49 | 89 | 41 | 89 |
| 107.29 | 1.52 | 43 | 140 | 47 | 140 |
| 108.81 | 1.52 | 14 | 141 | 76 | 141 |
| 110.34 | 1.53 | 52 | 180 | 38 | 180 |
| 111.86 | 1.52 | 43 | 116 | 47 | 116 |
| 113.39 | 1.53 | 42 | 130 | 48 | 130 |
| 114.91 | 1.52 | 43 | 130 | 47 | 130 |
| 116.43 | 1.52 | 48 | 125 | 42 | 125 |
| 117.96 | 1.53 | 40 | 114 | 50 | 114 |
| 120.4 | 2.44 | 54 | 11 | 36 | 11 |
| 121.31 | 0.91 | 44 | 135 | 46 | 135 |
| 122.53 | 1.22 | 45 | 126 | 45 | 126 |

# ORIENTATIONS FOR 05 SWC 033

STEREONETS

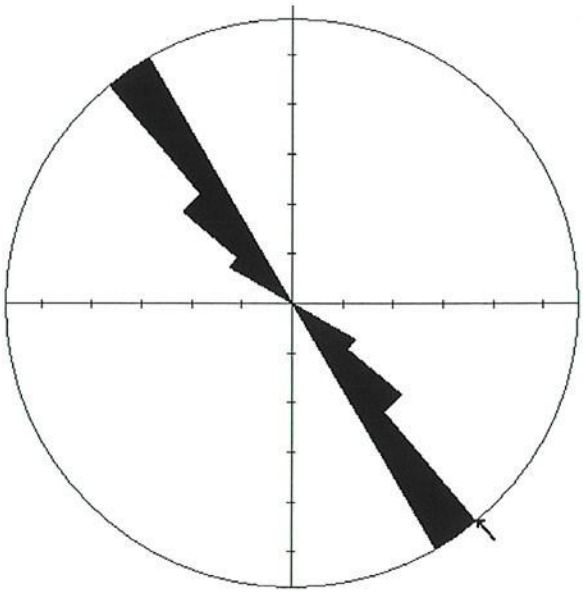


GREAT CIRCLES

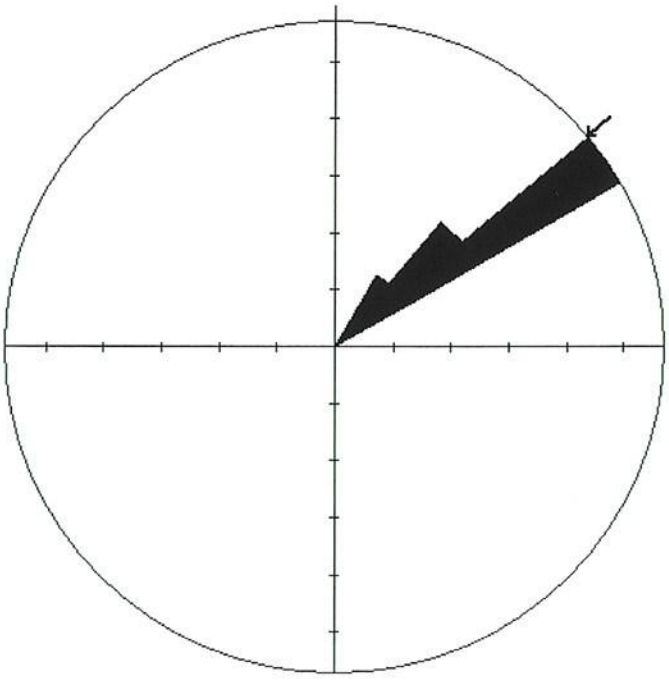


POLES

ROSE DIAGRAMS



PLANES



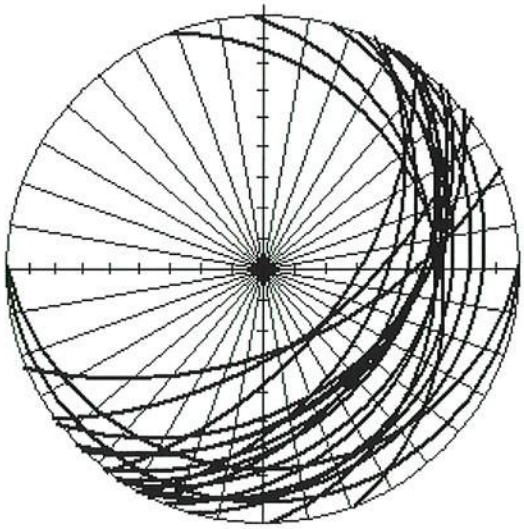
POLAR PLANES

## 05 SWC 033

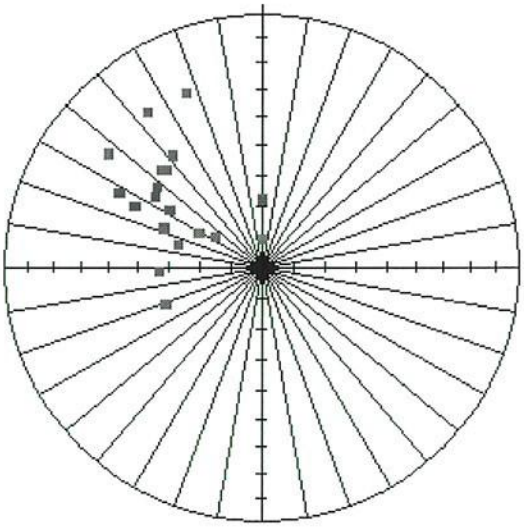
| Run Depth To (m) | Run Length (m) | Alpha - Dominant | Alpha - Sub Dominant | TRUE DIP | TRUE DIP DIRECTION |
|---|---|---|---|---|---|
| 70.71 | 1.52 | 32 | 180 | 58 | 180 |
| 92.05 | 1.52 | 34 | 145 | 56 | 145 |
| 95.1 | 1.53 | 43 | 135 | 47 | 135 |
| 96.62 | 1.52 | 46 | 142 | 44 | 142 |
| 99.67 | 1.52 | 39 | 119 | 51 | 119 |
| 107.29 | 1.52 | 35 | 149 | 55 | 149 |
| 110.34 | 1.53 | 54 | 180 | 36 | 180 |

# ORIENTATIONS FOR 05 SWC 036

STEREONETS

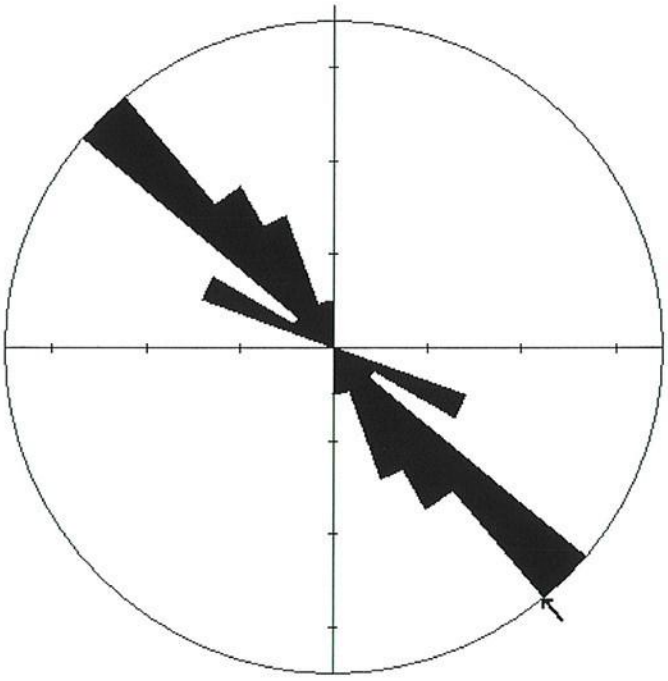


GREAT CIRCLES

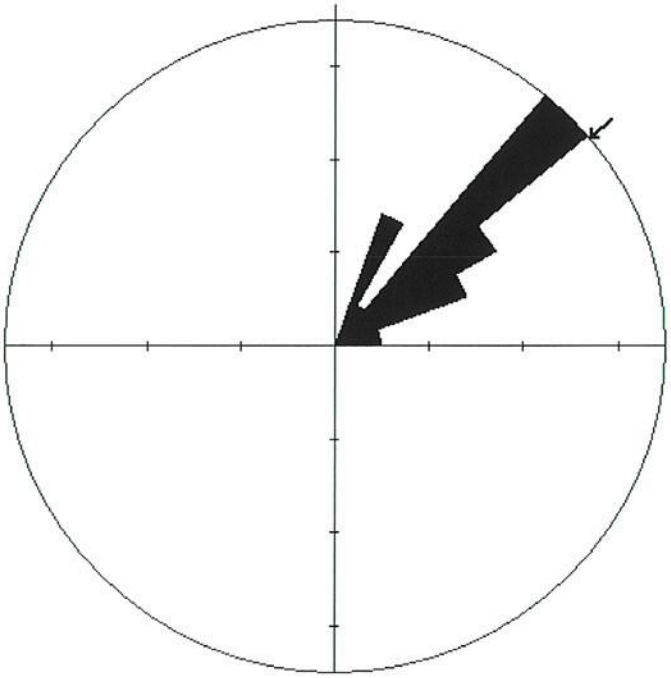


POLES

ROSE DIAGRAMS



PLANES



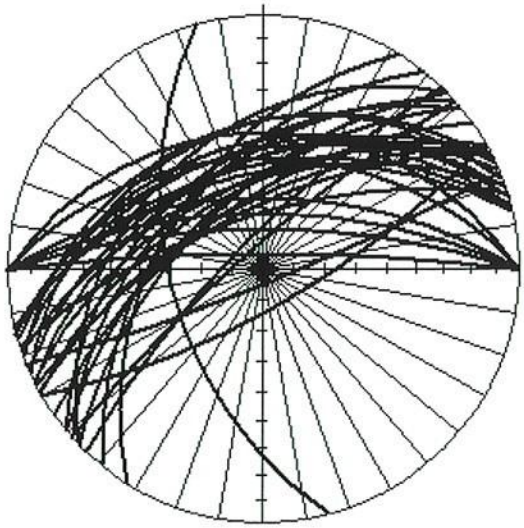
POLAR PLANES

## 05 SWC 036

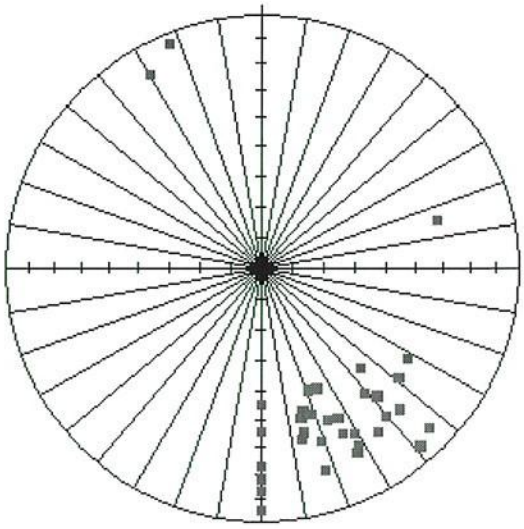
| Run Depth To (m) | Run Length (m) | Alpha - Dominant | Alpha - Sub Dominant | TRUE DIP | TRUE DIP DIRECTION |
|---|---|---|---|---|---|
| 61.57 | 1.22 | 25 | 144 | 65 | 144 |
| 62.48 | 0.91 | 37 | 118 | 53 | 118 |
| 67.06 | 1.53 | 26 | 127 | 64 | 127 |
| 69.19 | 1.52 | 55 | 122 | 35 | 122 |
| 70.71 | 1.52 | 45 | 136 | 45 | 136 |
| 72.24 | 1.53 | 48 | 124 | 42 | 124 |
| 73.76 | 1.52 | 45 | 136 | 45 | 136 |
| 75.29 | 1.53 | 47 | 128 | 43 | 128 |
| 76.81 | 1.52 | 26 | 157 | 64 | 157 |
| 78.33 | 1.52 | 67 | 119 | 23 | 119 |
| 79.86 | 1.53 | 44 | 134 | 46 | 134 |
| 81.38 | 1.52 | 44 | 116 | 46 | 116 |
| 89 | 1.52 | 81 | 180 | 9 | 180 |
| 91.74 | 1.21 | 68 | 180 | 22 | 180 |
| 95.86 | 1.53 | 43 | 142 | 47 | 142 |
| 100.89 | 1.53 | 57 | 88 | 33 | 88 |
| 102.11 | 1.22 | 57 | 69 | 33 | 69 |
| 105.16 | 1.53 | 72 | 124 | 18 | 124 |
| 106.68 | 1.52 | 56 | 112 | 34 | 112 |
| 109.27 | 1.37 | 62 | 106 | 28 | 106 |

**ORIENTATIONS FOR 05 SWC 038**

**STEREONETS**

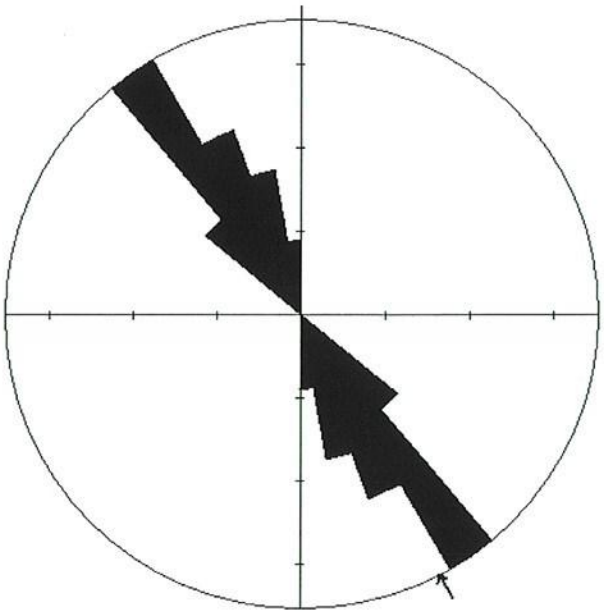


GREAT CIRCLES

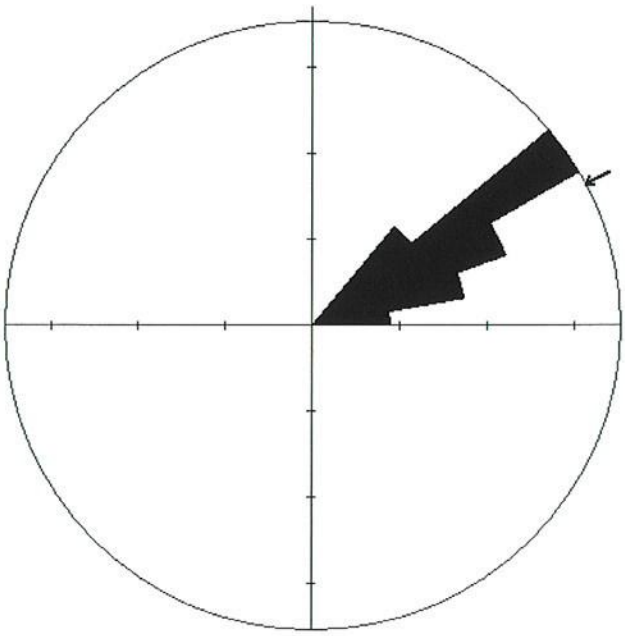


**POLES**

## ROSE DIAGRAMS



**PLANES**



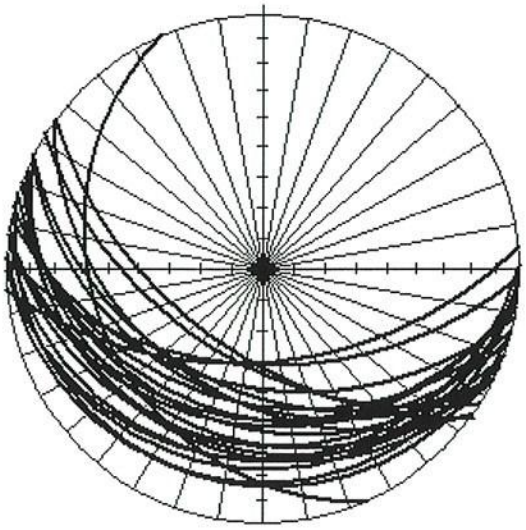
**POLAR LINES**

## 05 SWC 038

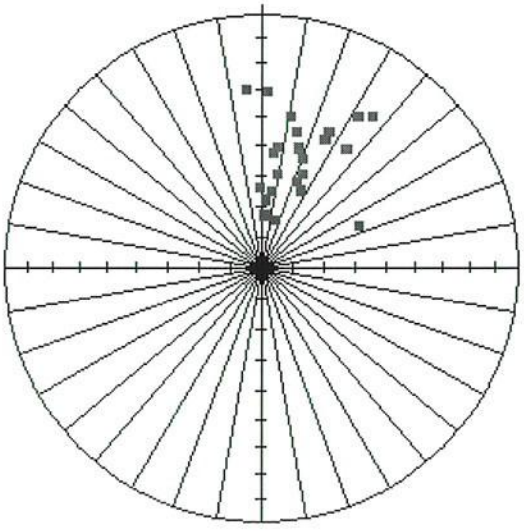
| Run Depth To (m) | Run Length (m) | Alpha - Dominant | Alpha - Sub Dominant | TRUE DIP | TRUE DIP DIRECTION |
|---|---|---|---|---|---|
| 30.78 | 1.52 | 60 | 140 | 55 | 337 |
| 35.36 | 1.53 | 59 | 103 | 46 | 316 |
| 36.88 | 1.52 | 72 | 130 | 43 | 340 |
| 42.98 | 1.53 | 59 | 158 | 59 | 347 |
| 44.5 | 1.52 | 45 | 156 | 72 | 342 |
| 46.02 | 1.52 | 65 | 144 | 51 | 341 |
| 49.07 | 1.52 | 46 | 108 | 58 | 309 |
| 50.6 | 1.53 | 47 | 180 | 72 | 0 |
| 59.74 | 1.52 | 42 | 180 | 77 | 0 |
| 64.31 | 1.52 | 61 | 155 | 56 | 346 |
| 65.84 | 1.53 | 55 | 117 | 54 | 321 |
| 67.36 | 1.52 | 45 | 125 | 65 | 320 |
| 68.88 | 1.52 | 70 | 124 | 43 | 336 |
| 70.41 | 1.53 | 44 | 100 | 57 | 302 |
| 73.46 | 1.53 | 44 | 132 | 68 | 325 |
| 76.5 | 1.52 | 51 | 117 | 57 | 318 |
| 79.25 | 1.22 | 28 | 132 | 83 | 319 |
| 80.77 | 1.52 | 58 | 135 | 56 | 333 |
| 82.3 | 1.53 | 53 | 140 | 62 | 334 |
| 83.82 | 1.52 | 68 | 146 | 49 | 344 |
| 86.87 | 1.53 | 22 | 156 | 85 | 158 |
| 88.39 | 1.52 | 13 | 150 | 78 | 150 |
| 105.46 | 1.52 | 29 | 126 | 80 | 314 |
| 108.51 | 1.53 | 42 | 121 | 66 | 316 |
| 117.65 | 1.52 | 55 | 150 | 62 | 341 |
| 122.22 | 1.52 | 74 | 180 | 45 | 0 |
| 123.75 | 1.53 | 52 | 180 | 67 | 0 |
| 126.8 | 1.53 | 180 | 34 | 85 | 0 |
| 128.32 | 1.52 | 50 | 137 | 64 | 331 |
| 133.81 | 1.53 | 44 | 143 | 71 | 333 |
| 135.33 | 1.52 | 46 | 140 | 68 | 331 |
| 142.04 | 1.53 | 19 | 62 | 60 | 255 |
| 149.66 | 1.53 | 66 | 151 | 51 | 345 |
| 160.32 | 1.52 | 180 | 65 | 54 | 0 |

**ORIENTATIONS FOR CORE HOLE 05SWC-041**

**STEREONETS**

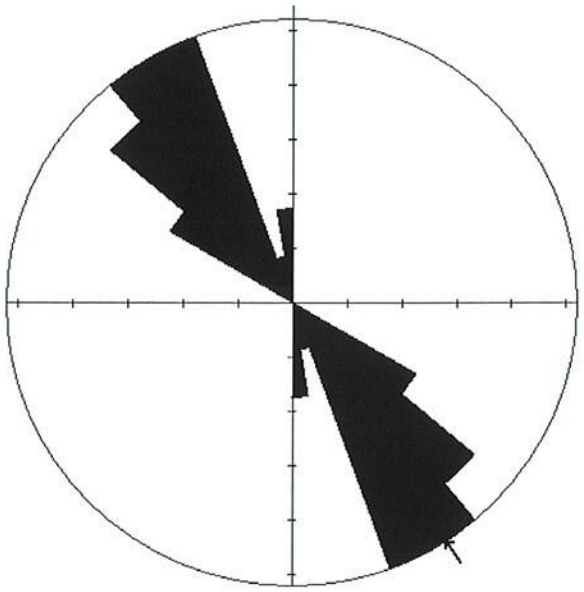


**GREAT CIRCLES**

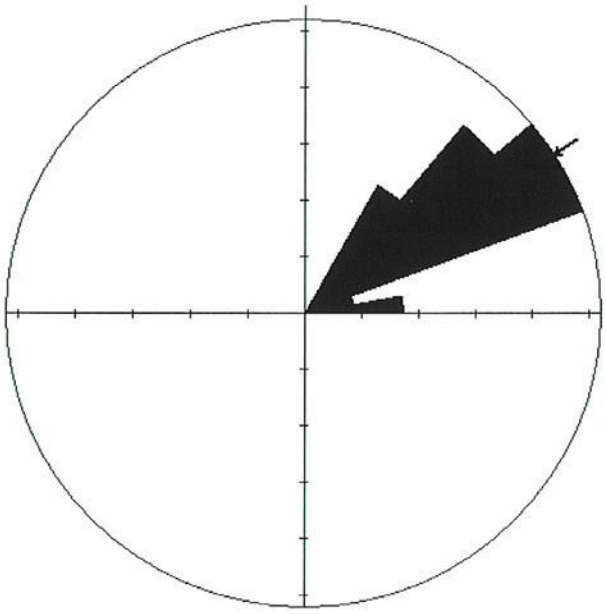


POLES

**ROSE DIAGRAMS**



PLANES



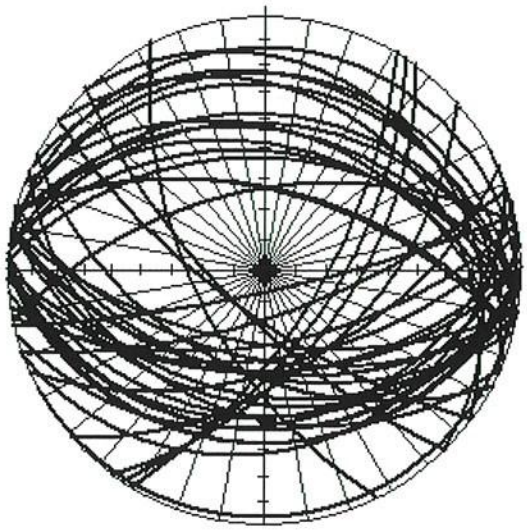
POLAR LINES

## 05 SWC 041

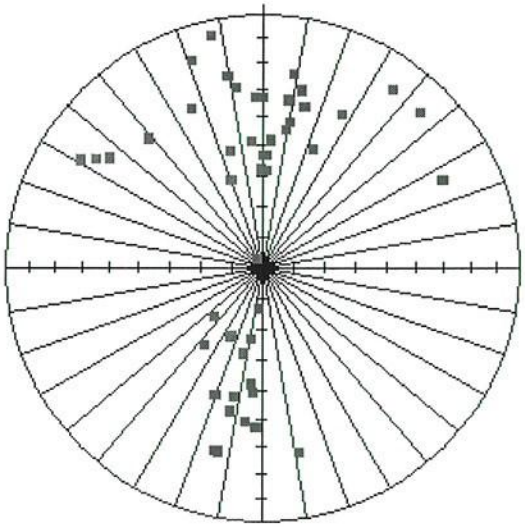
| Run Depth To (m) | Run Length (m) | Alpha - Dominant | Alpha - Sub Dominant | TRUE DIP | TRUE DIP DIRECTION |
|---|---|---|---|---|---|
| 88.7 | 1.53 | 52 | 134 | 57 | 238 |
| 99.36 | 1.52 | 42 | 149 | 69 | 246 |
| 100.89 | 1.53 | 43 | 140 | 67 | 239 |
| 102.41 | 1.52 | 60 | 136 | 50 | 243 |
| 103.33 | 0.92 | 64 | 113 | 41 | 232 |
| 106.98 | 1.52 | 49 | 131 | 59 | 235 |
| 108.51 | 1.53 | 68 | 117 | 39 | 238 |
| 110.03 | 1.52 | 39 | 125 | 67 | 226 |
| 113.08 | 1.52 | 27 | 150 | 84 | 243 |
| 121.92 | 1.52 | 44 | 128 | 63 | 230 |
| 128.02 | 1.53 | 31 | 116 | 71 | 216 |
| 129.54 | 1.52 | 30 | 146 | 81 | 241 |
| 131.06 | 1.52 | 30 | 109 | 70 | 209 |
| 135.64 | 1.53 | 62 | 140 | 49 | 246 |
| 152.7 | 1.52 | 40 | 140 | 70 | 238 |
| 155.75 | 1.52 | 73 | 117 | 35 | 243 |
| 157.28 | 1.53 | 180 | 56 | 58 | 270 |
| 160.32 | 1.52 | 50 | 121 | 56 | 228 |
| 161.85 | 1.53 | 74 | 129 | 36 | 249 |
| 164.9 | 1.53 | 57 | 137 | 53 | 242 |
| 167.94 | 1.52 | 59 | 123 | 48 | 234 |
| 169.47 | 1.53 | 65 | 121 | 42 | 237 |
| 172.52 | 1.53 | 52 | 120 | 54 | 228 |

**ORIENTATIONS FOR 05SWC-046**

**STEREONETS**

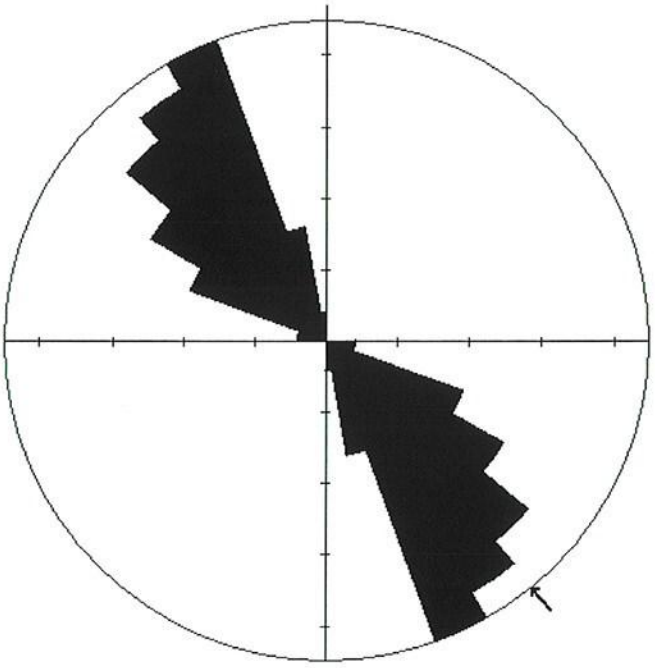


GREAT CIRCLES

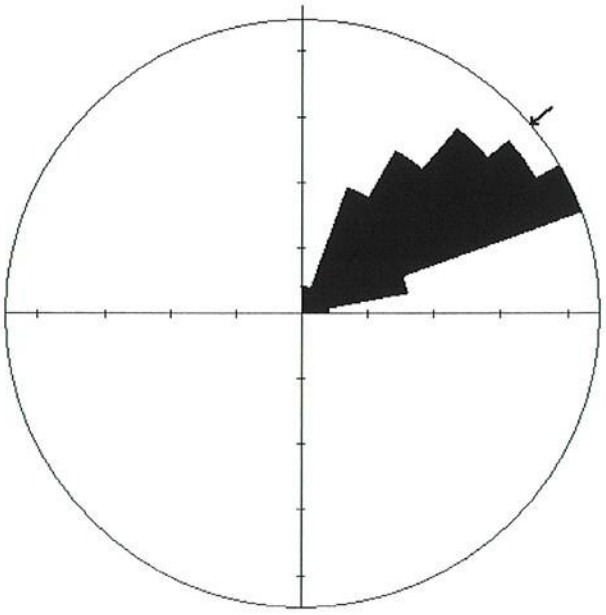


POLES

**ROSE DIAGRAMS**



PLANES



POLAR PLANES

05-SWC-046

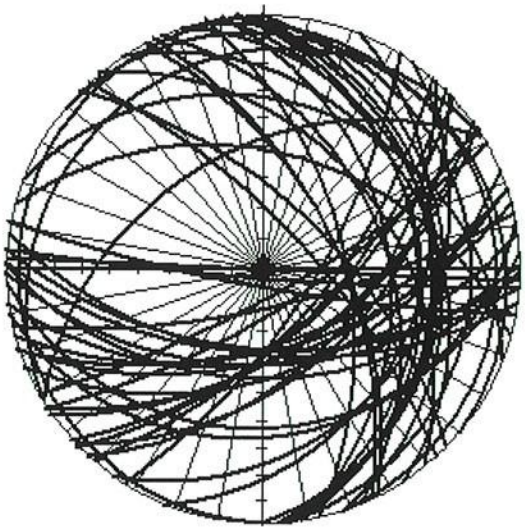
| Depth (m) | | FRACTURE ANGLES | | TRUE DIP | TRUE DIP DIRECTION |
|---|---|---|---|---|---|
| from | to | a | b | | |
| 36.89 | 38.41 | 50 | 130 | 13 | 6 |
| 46.04 | 47.26 | 22 | 65 | 41 | 4 |
| 47.26 | 48.48 | 0 | 135 | 64 | 13 |
| 48.48 | 50 | 45 | 130 | 22 | 45 |
| 50 | 51.22 | 33 | 165 | 83 | 167 |
| 51.22 | 52.44 | 40 | 170 | 24 | 25 |
| 55.18 | 56.71 | 50 | 120 | 58 | 139 |
| 63.41 | 64.33 | 0 | 17 | 63 | 349 |
| 64.33 | 65.85 | 15 | 10 | 49 | 13 |
| 67.38 | 68.6 | 10 | 45 | 53 | 2 |
| 68.6 | 70.12 | 60 | 145 | 57 | 180 |
| 71.65 | 73.17 | 50 | 0 | 66 | 170 |
| 79.57 | 81.1 | 50 | 115 | 67 | 189 |
| 81.1 | 82.62 | 60 | 25 | 56 | 194 |
| 85.37 | 86.59 | 32 | 12 | 42 | 203 |
| 88.11 | 89.33 | 30 | 110 | 72 | 121 |
| 90.85 | 91.77 | 35 | 0 | 32 | 179 |
| 91.77 | 93.29 | 35 | 84 | 28 | 12 |
| 93.29 | 94.21 | 40 | 169 | 23 | 10 |
| 94.21 | 95.73 | 30 | 160 | 3 | 152 |
| 96.8 | 97.87 | 12 | 120 | 51 | 6 |
| 97.87 | 99.09 | 60 | 170 | 56 | 189 |
| 99.09 | 100.3 | 0 | 50 | 64 | 15 |
| 100.3 | 101.83 | 67 | 15 | 49 | 190 |
| 103.05 | 104.57 | 32 | 0 | 76 | 225 |
| 108.23 | 109.76 | 80 | 115 | 37 | 182 |
| 110.98 | 112.5 | 80 | 160 | 30 | 160 |
| 113.72 | 115.4 | 60 | 140 | 57 | 188 |
| 115.4 | 116.77 | 70 | 30 | 46 | 189 |
| 116.77 | 118.29 | 32 | 80 | 67 | 244 |
| 123.78 | 126.22 | 40 | 125 | 75 | 161 |
| 129.88 | 131.1 | 20 | 145 | 43 | 12 |
| 131.1 | 132.32 | 25 | 45 | 38 | 6 |
| 132.32 | 133.54 | 95 | 0 | 39 | 165 |
| 133.54 | 134.45 | 20 | 70 | 44 | 20 |
| 135.67 | 137.2 | 55 | 145 | 58 | 207 |
| 137.2 | 138.87 | 55 | 135 | 62 | 172 |
| 138.87 | 140.09 | 60 | 130 | 57 | 178 |
| 140.09 | 141.16 | 80 | 135 | 37 | 180 |
| 143.6 | 145.12 | 35 | 130 | 76 | 216 |
| 149.09 | 150.61 | 40 | 110 | 63 | 126 |
| 153.05 | 154.57 | 75 | 115 | 42 | 175 |
| 154.57 | 156.1 | 35 | 145 | 31 | 36 |
| 156.1 | 157.62 | 55 | 142 | 59 | 156 |
| 157.62 | 159.15 | 75 | 160 | 42 | 183 |
| 160.67 | 162.2 | 85 | 125 | 32 | 182 |
| 165.24 | 167.07 | 35 | 110 | 67 | 124 |

**05-SWC-046**

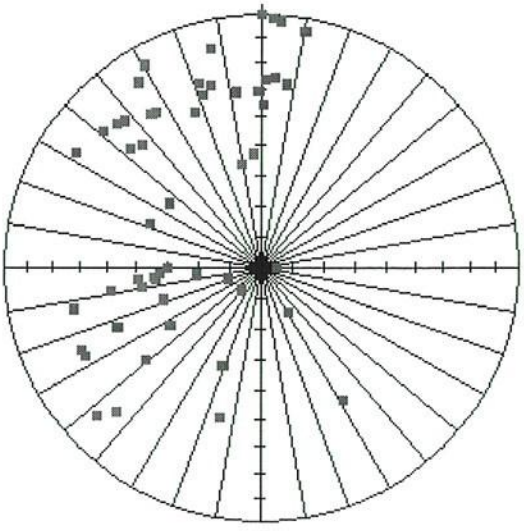
| Depth (m) | | FRACTURE ANGLES | | TRUE DIP | TRUE DIP DIRECTION |
|---|---|---|---|---|---|
| from | to | a | b | | |
| 167.07 | 168.29 | 50 | 140 | 66 | 170 |
| 170.12 | 171.65 | 55 | 120 | 61 | 192 |

**ORIENTATIONS FOR 05SWC-047**

**STEREONETS**

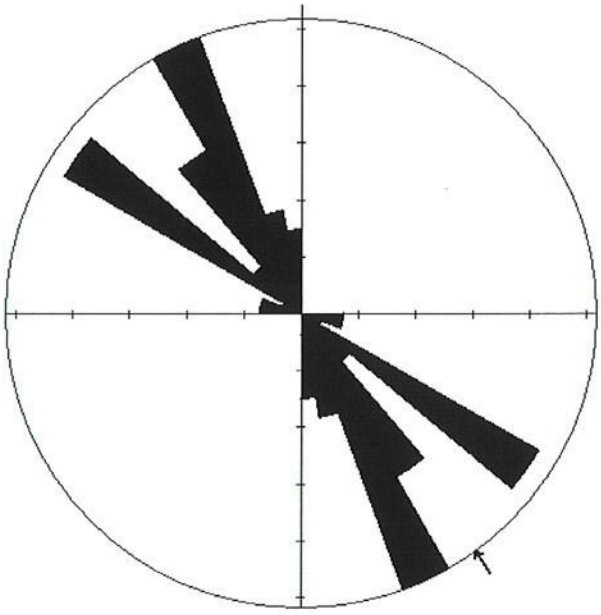


GREAT CIRCLES

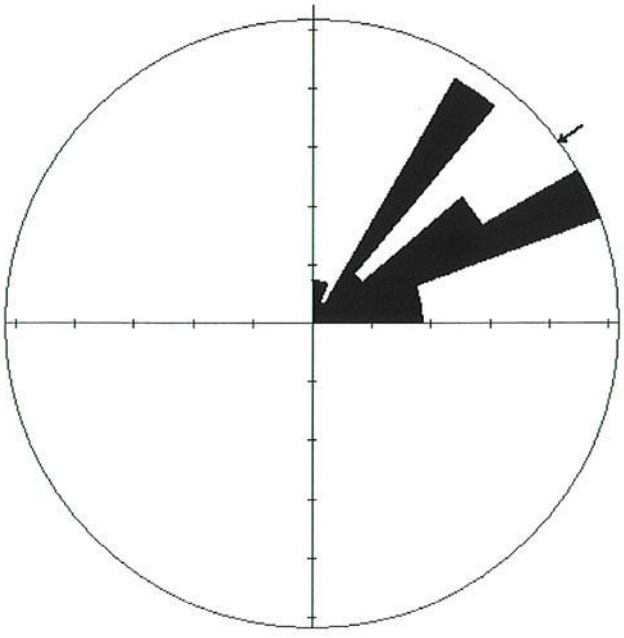


POLES

**ROSE DIAGRAMS**



PLANES



POLAR PLANES

05-SWC-047

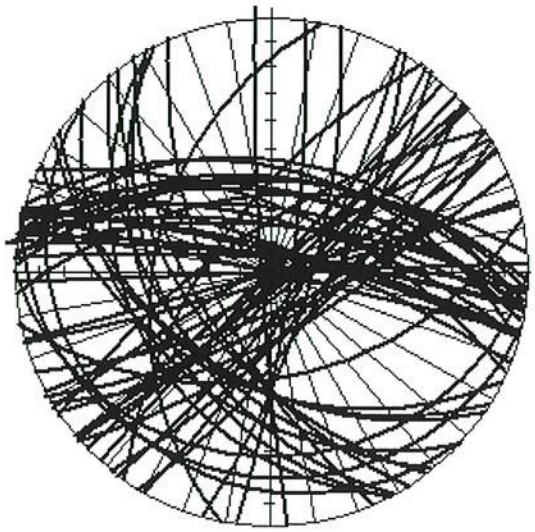
| Depth (m) | | FRACTURE ANGLES | | TRUE DIP | TRUE DIP DIRECTION |
|---|---|---|---|---|---|
| from | to | a | b | | |
| 14.43 | 15.85 | 75 | 150 | 39 | 112 |
| 16 | 16.88 | 50 | 110 | 56 | 136 |
| 18.18 | 19.08 | 50 | 140 | 35 | 169 |
| 22.1 | 23.04 | 40 | 120 | 69 | 135 |
| 25 | 26.28 | 30 | 120 | 59 | 172 |
| 26.28 | 30.65 | 40 | 120 | 69 | 45 |
| 38.71 | 40.23 | 35 | 127 | 76 | 47 |
| 40.23 | 41.76 | 65 | 17 | 9 | 40 |
| 42.18 | 43.28 | 20 | 45 | 51 | 329 |
| 44.81 | 46.33 | 0 | 80 | 90 | 180 |
| 49.38 | 50.9 | 0 | 125 | 88 | 184 |
| 50.9 | 52.43 | 17 | 115 | 78 | 167 |
| 52.43 | 53.42 | 40 | 80 | 51 | 15 |
| 53.7 | 55.47 | 65 | 135 | 51 | 67 |
| 63.09 | 63.73 | 55 | 0 | 5 | 270 |
| 63.73 | 66.14 | 40 | 130 | 63 | 146 |
| 66.14 | 67.67 | 55 | 160 | 64 | 77 |
| 70.71 | 72.24 | 27 | 150 | 59 | 179 |
| 72.24 | 74.51 | 90 | 175 | 30 | 90 |
| 74.51 | 76.81 | 85 | 140 | 34 | 84 |
| 80.33 | 85.95 | 40 | 60 | 64 | 145 |
| 85.95 | 87.47 | 30 | 130 | 64 | 165 |
| 89 | 90.82 | 50 | 140 | 65 | 63 |
| 90.82 | 92.35 | 70 | 160 | 49 | 81 |
| 98.44 | 99.97 | 22 | 130 | 64 | 181 |
| 99.97 | 101.49 | 40 | 125 | 74 | 122 |
| 109.12 | 110.64 | 55 | 65 | 34 | 21 |
| 110.64 | 112.16 | 40 | 130 | 67 | 138 |
| 115.21 | 116.73 | 30 | 60 | 66 | 162 |
| 116.73 | 118.26 | 87 | 142 | 32 | 87 |
| 119.42 | 121.3 | 72 | 90 | 35 | 57 |
| 124.35 | 125.88 | 80 | 145 | 39 | 81 |
| 125.88 | 127.41 | 50 | 125 | 58 | 133 |
| 127.41 | 128.92 | 70 | 143 | 36 | 125 |
| 128.92 | 130.45 | 45 | 90 | 37 | 176 |
| 130.45 | 131.97 | 34 | 150 | 61 | 161 |
| 138.07 | 139.6 | 40 | 135 | 56 | 157 |
| 139.6 | 141.11 | 50 | 143 | 66 | 65 |
| 141.11 | 142.64 | 30 | 60 | 54 | 180 |
| 142.64 | 144.17 | 28 | 170 | 76 | 147 |
| 144.17 | 145.69 | 49 | 22 | 17 | 329 |
| 145.69 | 146.2 | 80 | 160 | 40 | 85 |
| 146.36 | 147.21 | 22 | 148 | 81 | 150 |
| 148.74 | 150.56 | 70 | 10 | 11 | 72 |
| 156.36 | 157.89 | 80 | 100 | 33 | 72 |
| 159.41 | 160.93 | 90 | 120 | 30 | 90 |
| 162.46 | 163.98 | 20 | 60 | 62 | 188 |

05-SWC-047

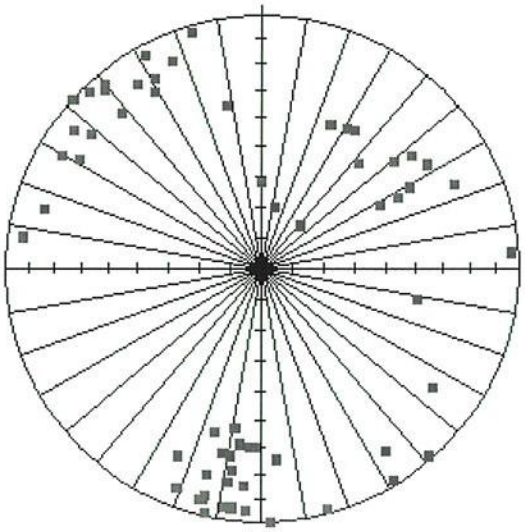
| Depth (m) | | FRACTURE ANGLES | | TRUE DIP | TRUE DIP DIRECTION |
|---|---|---|---|---|---|
| from | to | a | b | | |
| 167.03 | 168.55 | 60 | 110 | 48 | 51 |
| 168.55 | 170.08 | 20 | 160 | 64 | 184 |
| 170.08 | 172.12 | 0 | 120 | 89 | 183 |
| 172.12 | 172.82 | 0 | 89 | 84 | 190 |
| 172.82 | 174.65 | 80 | 12 | 20 | 84 |
| 174.65 | 176.25 | 40 | 175 | 71 | 131 |
| 177.7 | 180 | 85 | 145 | 34 | 85 |

**ORIENTATIONS FOR 05SWC-048**

**STEREONETS**

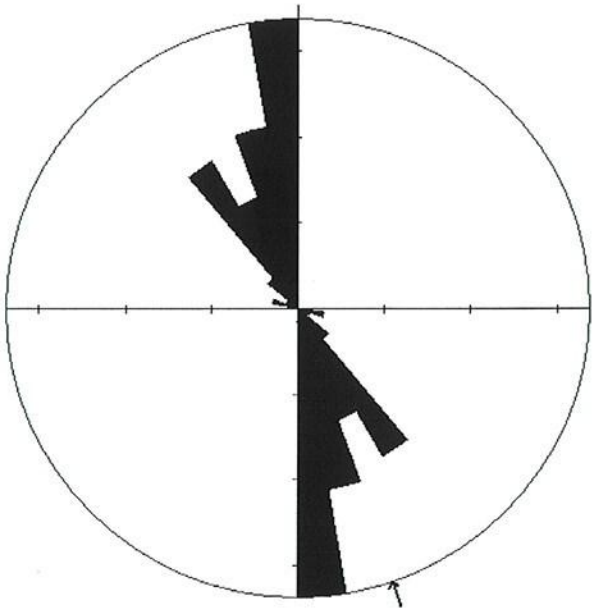


GREAT CIRCLES

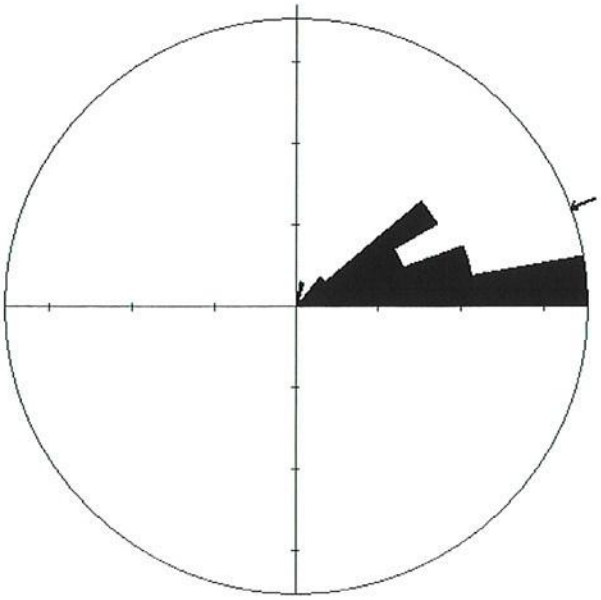


POLES

**ROSE DIAGRAMS**



PLANES



POLAR PLANES

05-SWC-048

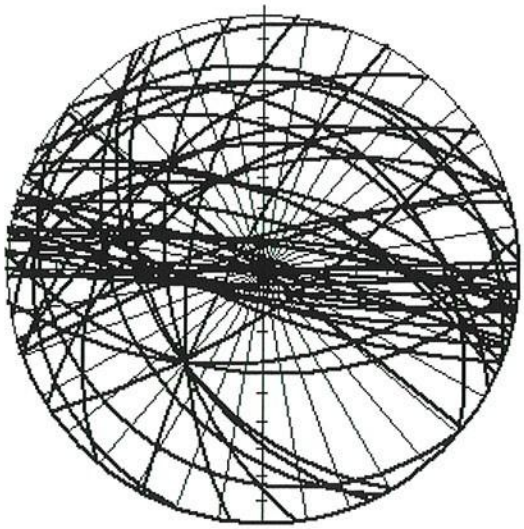
| Depth (m) | | FRACTURE ANGLES | | TRUE DIP | TRUE DIP DIRECTION |
|---|---|---|---|---|---|
| from | to | a | b | | |
| 8.89 | 12.2 | 35 | 15 | 19 | 222 |
| 12.2 | 12.5 | 55 | 15 | 74 | 9 |
| 12.96 | 18.29 | 45 | 355 | 83 | 14 |
| 18.29 | 22.87 | 25 | 135 | 85 | 140 |
| 27.9 | 29.63 | 75 | 55 | 53 | 9 |
| 29.88 | 33.08 | 10 | 30 | 47 | 222 |
| 33.08 | 33.29 | 55 | 25 | 73 | 15 |
| 33.29 | 36.59 | 45 | 15 | 84 | 8 |
| 37.8 | 43.9 | 15 | 45 | 50 | 242 |
| 43.9 | 44.51 | 15 | 125 | 81 | 127 |
| 53.96 | 59.76 | 70 | 135 | 56 | 16 |
| 73.48 | 75 | 30 | 147 | 85 | 152 |
| 76.52 | 78.05 | 45 | 135 | 85 | 4 |
| 82.62 | 83.84 | 35 | 140 | 88 | 328 |
| 83.84 | 85.67 | 20 | 40 | 44 | 241 |
| 85.67 | 87.5 | 25 | 155 | 78 | 157 |
| 87.5 | 88.72 | 20 | 150 | 75 | 151 |
| 90.24 | 90.64 | 45 | 50 | 85 | 7 |
| 90.64 | 91.4 | 25 | 125 | 89 | 132 |
| 93.29 | 94.82 | 22 | 0 | 28 | 180 |
| 94.82 | 96.65 | 70 | 150 | 60 | 4 |
| 96.65 | 97.87 | 5 | 125 | 73 | 121 |
| 97.87 | 99.39 | 45 | 0 | 81 | 21 |
| 100.91 | 102.44 | 0 | 110 | 77 | 106 |
| 102.44 | 103.96 | 15 | 150 | 70 | 149 |
| 103.96 | 105.49 | 0 | 100 | 84 | 98 |
| 105.49 | 107.01 | 0 | 85 | 87 | 266 |
| 107.01 | 108.54 | 0 | 45 | 63 | 233 |
| 110.06 | 111.59 | 47 | 135 | 81 | 14 |
| 111.59 | 113.11 | 45 | 125 | 83 | 14 |
| 113.11 | 114.63 | 45 | 120 | 83 | 15 |
| 119.21 | 120.73 | 10 | 47 | 56 | 241 |
| 122.26 | 123.78 | 20 | 145 | 77 | 146 |
| 123.78 | 125.3 | 40 | 140 | 89 | 13 |
| 128.35 | 130.18 | 70 | 0 | 60 | 2 |
| 130.18 | 131.4 | 70 | 120 | 59 | 7 |
| 131.4 | 132.77 | 10 | 130 | 74 | 128 |
| 132.77 | 134.45 | 5 | 170 | 56 | 168 |
| 134.45 | 135.98 | 35 | 160 | 87 | 164 |
| 135.98 | 137.5 | 40 | 160 | 88 | 345 |
| 137.5 | 139.33 | 0 | 25 | 54 | 211 |
| 143.6 | 145.12 | 23 | 135 | 83 | 139 |
| 148.17 | 149.7 | 12 | 140 | 71 | 138 |
| 152.74 | 154.27 | 5 | 40 | 56 | 230 |
| 163.41 | 164.94 | 30 | 130 | 89 | 318 |
| 164.94 | 166.77 | 37 | 105 | 71 | 305 |
| 169.51 | 171.04 | 45 | 130 | 76 | 326 |

05-SWC-048

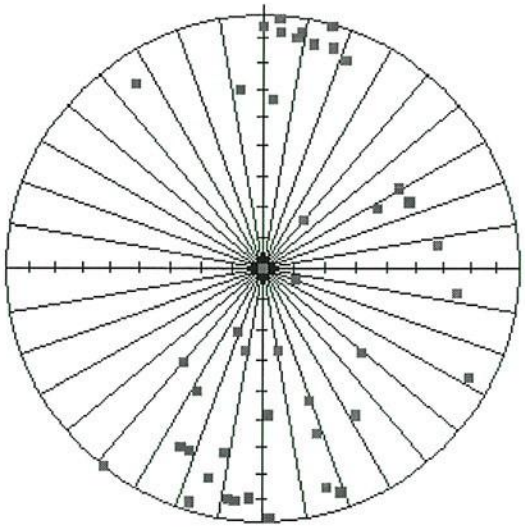
| Depth (m) | | FRACTURE ANGLES | | TRUE DIP | TRUE DIP DIRECTION |
|---|---|---|---|---|---|
| from | to | a | b | | |
| 172.56 | 174.09 | 35 | 70 | 52 | 281 |
| 175.61 | 177.13 | 55 | 140 | 70 | 24 |
| 178.66 | 180.18 | 65 | 150 | 64 | 9 |
| 180.18 | 181.71 | 0 | 60 | 71 | 246 |
| 184.76 | 186.28 | 0 | 27 | 55 | 214 |
| 186.28 | 187.8 | 10 | 120 | 79 | 120 |
| 195.43 | 196.95 | 0 | 50 | 66 | 237 |
| 196.95 | 198.48 | 55 | 140 | 75 | 5 |
| 198.48 | 200 | 65 | 170 | 65 | 355 |
| 201.52 | 203.05 | 60 | 0 | 69 | 8 |
| 216.77 | 218.29 | 40 | 120 | 90 | 358 |
| 225.91 | 227.44 | 25 | 130 | 87 | 136 |
| 232.01 | 233.84 | 0 | 45 | 63 | 233 |
| 238.11 | 239.63 | 30 | 130 | 89 | 318 |
| 251.83 | 253.35 | 0 | 20 | 53 | 205 |
| 257.32 | 259.45 | 0 | 25 | 54 | 211 |
| 260.98 | 262.5 | 30 | 5 | 20 | 193 |
| 267.07 | 268.6 | 65 | 25 | 63 | 12 |

**ORIENTATIONS FOR 05SWC-049**

**STEREONETS**

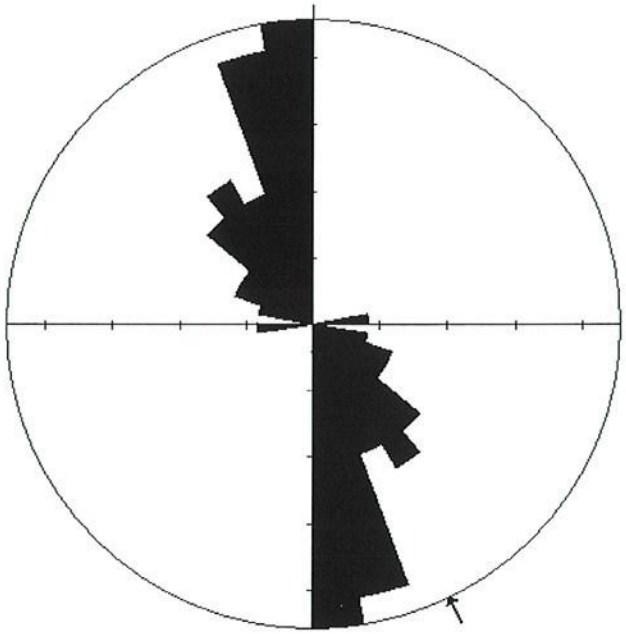


GREAT CIRCLES

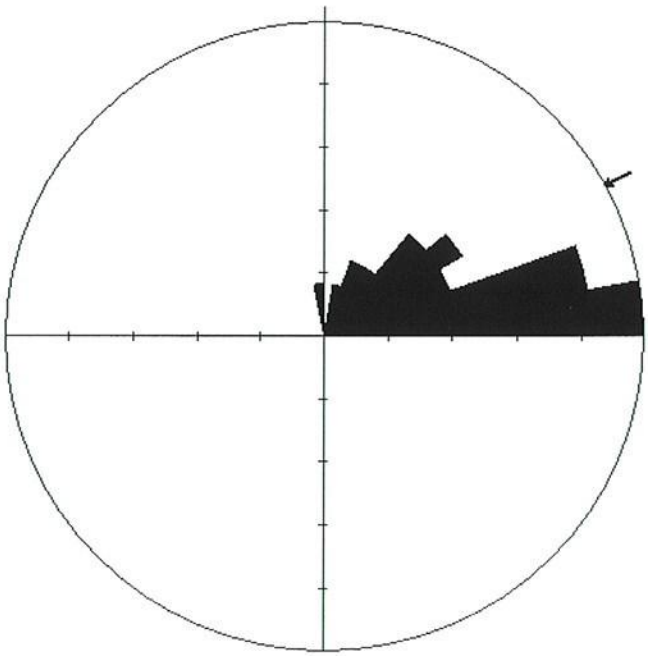


POLES

**ROSE DIAGRAMS**



PLANES



POLAR PLANES

**05-SWC-049**

| Depth (m) | | FRACTURE ANGLES | | TRUE DIP | TRUE DIP DIRECTION |
|---|---|---|---|---|---|
| from | to | a | b | | |
| 12.5 | 41.16 | 35 | 80 | 58 | 328 |
| 50.3 | 51.83 | 60 | 90 | 48 | 358 |
| 51.83 | 53.35 | 70 | 20 | 22 | 22 |
| 53.35 | 54.88 | 25 | 110 | 83 | 341 |
| 57.93 | 59.45 | 40 | 130 | 80 | 3 |
| 60.98 | 62.5 | 58 | 127 | 64 | 12 |
| 62.5 | 64.02 | 30 | 110 | 79 | 344 |
| 64.02 | 65.55 | 50 | 75 | 46 | 340 |
| 68.6 | 70.12 | 40 | 135 | 82 | 7 |
| 70.12 | 71.34 | 90 | 45 | 40 | 40 |
| 71.34 | 73.17 | 44 | 90 | 58 | 342 |
| 76.22 | 77.74 | 40 | 150 | 86 | 17 |
| 77.74 | 79.27 | 60 | 45 | 27 | 349 |
| 79.27 | 80.79 | 80 | 120 | 46 | 28 |
| 82.32 | 83.84 | 60 | 145 | 66 | 22 |
| 83.84 | 85.37 | 25 | 135 | 85 | 180 |
| 85.37 | 86.89 | 28 | 145 | 84 | 189 |
| 98.17 | 100.61 | 0 | 75 | 80 | 298 |
| 100.61 | 102.74 | 0 | 15 | 52 | 239 |
| 106.71 | 108.23 | 35 | 55 | 42 | 311 |
| 109.76 | 111.28 | 70 | 40 | 27 | 11 |
| 125 | 126.52 | 30 | 137 | 89 | 184 |
| 128.05 | 129.57 | 61 | 150 | 66 | 25 |
| 129.57 | 131.1 | 30 | 130 | 89 | 358 |
| 134.15 | 135.67 | 25 | 145 | 81 | 188 |
| 137.2 | 138.72 | 25 | 160 | 77 | 201 |
| 141.77 | 143.29 | 25 | 150 | 80 | 193 |
| 146.34 | 147.87 | 41 | 137 | 82 | 9 |
| 147.87 | 149.39 | 25 | 150 | 80 | 193 |
| 149.39 | 150.91 | 45 | 15 | 11 | 289 |
| 153.96 | 155.49 | 0 | 110 | 77 | 146 |
| 155.49 | 157.01 | 40 | 130 | 80 | 3 |
| 160.06 | 161.59 | 0 | 140 | 61 | 172 |
| 163.11 | 164.63 | 27 | 155 | 80 | 198 |
| 164.63 | 165.4 | 35 | 150 | 89 | 196 |
| 165.4 | 167.68 | 30 | 0 | 20 | 220 |
| 170.73 | 172.26 | 25 | 140 | 83 | 184 |
| 172.26 | 173.78 | 0 | 20 | 53 | 245 |
| 173.78 | 175.3 | 0 | 35 | 58 | 262 |
| 176.83 | 178.35 | 0 | 150 | 56 | 183 |
| 178.35 | 179.88 | 40 | 178 | 90 | 38 |
| 184.45 | 185.98 | 50 | 0 | 0 | 164 |
| 192.07 | 193.6 | 50 | 140 | 74 | 15 |
| 193.6 | 195.12 | 50 | 0 | 0 | 164 |
| 195.12 | 196.65 | 10 | 15 | 42 | 242 |
| 196.65 | 198.17 | 90 | 45 | 40 | 40 |
| 198.17 | 199.7 | 90 | 130 | 40 | 40 |

05-SWC-049

| Depth (m) | | FRACTURE ANGLES | | TRUE DIP | TRUE DIP DIRECTION |
|---|---|---|---|---|---|
| from | to | a | b | | |
| 201.22 | 202.74 | 0 | 50 | 66 | 277 |

# APPENDIX

## APPENDIX G RMR SPREADSHEET SUMMARY

| | | | | | | RQD | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | Length (m) | % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
| 05 SWC 035 | 0 | 67.67 | 67.67 | 0.0 | 0.0 | | 0.00 | 0.0 | 9999 | 148 | 7 | 5.0 | 0 | 10 | 15.00 | 1.0 | overburden- no measurments were recorded |
| 05 SWC 035 | 67.67 | 70.71 | 3.04 | 5.0 | 12.0 | 0.24 | 7.89 | 3.0 | 9999 | 3289 | 0 | 5.0 | 16 | 10 | 46.00 | 3.0 | broken core |
| 05 SWC 035 | 70.71 | 72.24 | 1.53 | 5.0 | 12.0 | 0.24 | 15.69 | 3.0 | 9999 | 6535 | 0 | 5.0 | 16 | 10 | 46.00 | 3.0 | broken core |
| 05 SWC 035 | 72.24 | 73.76 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | broken core, malachite on some joint surfaces |
| 05 SWC 035 | 73.76 | 74.98 | 1.22 | 4.0 | 7.0 | 0.27 | 22.13 | 3.0 | 19 | 16 | 64 | 8.0 | 16 | 10 | 44.00 | 3.0 | broken core, malachite on joint surfaces |
| 05 SWC 035 | 74.98 | 76.50 | 1.52 | 3.0 | 4.0 | 0.42 | 27.63 | 8.0 | 17 | 11 | 89 | 8.0 | 16 | 10 | 46.00 | 3.0 | malachite on joint surfaces |
| 05 SWC 035 | 76.50 | 77.72 | 1.22 | 3.0 | 4.0 | 0.68 | 55.74 | 13.0 | 18 | 15 | 68 | 8.0 | 16 | 10 | 51.00 | 3.0 | malachite on joint surfaces |
| 05 SWC 035 | 77.72 | 79.55 | 1.83 | 3.5 | 7.0 | 0.61 | 33.33 | 8.0 | 15 | 8 | 122 | 8.0 | 16 | 10 | 49.00 | 3.0 | specks of malachite |
| 05 SWC 035 | 79.55 | 81.08 | 1.53 | 3.5 | 7.0 | 0.42 | 27.45 | 8.0 | 13 | 8 | 118 | 8.0 | 16 | 10 | 49.00 | 3.0 | |
| 05 SWC 035 | 81.08 | 82.60 | 1.52 | 3.0 | 4.0 | 0.36 | 23.68 | 3.0 | 18 | 12 | 84 | 8.0 | 16 | 10 | 41.00 | 3.0 | malachite on joint surfaces |
| 05 SWC 035 | 82.60 | 84.12 | 1.52 | 2.0 | 2.0 | 0.36 | 23.68 | 3.0 | 20 | 13 | 76 | 8.0 | 16 | 10 | 39.00 | 2.0 | malachite on joint surfaces |
| 05 SWC 035 | 84.12 | 85.65 | 1.53 | 3.0 | 4.0 | 0.17 | 11.11 | 3.0 | 9 | 6 | 170 | 8.0 | 16 | 10 | 41.00 | 3.0 | part of run is very broken up |
| 05 SWC 035 | 85.65 | 86.87 | 1.22 | 3.0 | 4.0 | 0.74 | 60.66 | 13.0 | 5 | 4 | 244 | 10.0 | 18 | 10 | 55.00 | 3.0 | |
| 05 SWC 035 | 86.87 | 88.39 | 1.52 | 3.0 | 4.0 | 1.26 | 82.89 | 17.0 | 5 | 3 | 304 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 035 | 88.39 | 89.00 | 0.61 | 3.0 | 4.0 | 0.47 | 77.05 | 17.0 | 1 | 2 | 610 | 16.0 | 18 | 10 | 65.00 | 4.0 | |
| 05 SWC 035 | 89.00 | 90.53 | 1.53 | 3.0 | 4.0 | 1.33 | 86.93 | 17.0 | 5 | 3 | 306 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 035 | 90.53 | 92.05 | 1.52 | 3.0 | 4.0 | 1.28 | 84.21 | 17.0 | 7 | 5 | 217 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 035 | 92.05 | 93.57 | 1.52 | 3.0 | 4.0 | 0.95 | 62.50 | 13.0 | 6 | 4 | 253 | 10.0 | 18 | 10 | 55.00 | 3.0 | |
| 05 SWC 035 | 93.57 | 95.10 | 1.53 | 3.0 | 4.0 | 1.15 | 75.16 | 17.0 | 12 | 8 | 128 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 035 | 95.10 | 96.62 | 1.52 | 3.0 | 4.0 | 0.14 | 9.21 | 3.0 | 9999 | 6578 | 0 | 5.0 | 18 | 10 | 40.00 | 2.0 | broken core |
| 05 SWC 035 | 96.62 | 97.54 | 0.92 | 3.0 | 4.0 | 0.19 | 20.65 | 3.0 | 9999 | 10868 | 0 | 5.0 | 18 | 10 | 40.00 | 2.0 | broken core |
| 05 SWC 035 | 97.54 | 98.15 | 0.61 | 3.0 | 4.0 | 0.48 | 78.69 | 17.0 | 3 | 5 | 203 | 10.0 | 18 | 10 | 59.00 | 3.0 | malachite on joint surfaces |
| 05 SWC 035 | 98.15 | 99.67 | 1.52 | 3.0 | 4.0 | 0.46 | 30.26 | 8.0 | 18 | 12 | 84 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 035 | 99.67 | 101.19 | 1.52 | 3.0 | 4.0 | 1.17 | 76.97 | 17.0 | 7 | 5 | 217 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 035 | 101.19 | 102.72 | 1.53 | 3.0 | 4.0 | 0.95 | 62.09 | 13.0 | 11 | 7 | 139 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 035 | 102.72 | 104.24 | 1.52 | 3.0 | 4.0 | 1.12 | 73.68 | 13.0 | 8 | 5 | 190 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 035 | 104.24 | 105.77 | 1.53 | 3.0 | 4.0 | 0.32 | 20.92 | 3.0 | 15 | 10 | 102 | 8.0 | 18 | 10 | 43.00 | 3.0 | |
| 05 SWC 035 | 105.77 | 107.29 | 1.52 | 3.0 | 4.0 | 0.82 | 53.95 | 13.0 | 14 | 9 | 109 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 035 | 107.29 | 108.81 | 1.52 | 3.0 | 4.0 | 0.76 | 50.00 | 13.0 | 10 | 7 | 152 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 035 | 108.81 | 110.34 | 1.53 | 3.0 | 4.0 | 0.98 | 64.05 | 13.0 | 8 | 5 | 191 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 035 | 110.34 | 111.86 | 1.52 | 3.0 | 4.0 | 0.34 | 22.37 | 3.0 | 18 | 12 | 84 | 8.0 | 18 | 10 | 43.00 | 3.0 | |
| 05 SWC 035 | 111.86 | 113.39 | 1.53 | 3.0 | 4.0 | 1.17 | 76.47 | 17.0 | 10 | 7 | 153 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 035 | 113.39 | 114.91 | 1.52 | 3.0 | 4.0 | 1.17 | 76.97 | 17.0 | 6 | 4 | 253 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 035 | 114.91 | 116.43 | 1.52 | 3.0 | 4.0 | 0.34 | 22.37 | 3.0 | 15 | 10 | 101 | 8.0 | 18 | 10 | 43.00 | 3.0 | |
| 05 SWC 035 | 116.43 | 117.96 | 1.53 | 3.0 | 4.0 | 0.43 | 28.10 | 8.0 | 16 | 10 | 96 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 035 | 117.96 | 119.48 | 1.52 | 3.0 | 4.0 | 0.91 | 59.87 | 13.0 | 16 | 11 | 95 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 035 | 119.48 | 121.01 | 1.53 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 20 | 10 | 39.00 | 2.0 | broken core |
| 05 SWC 035 | 121.01 | 122.53 | 1.52 | 3.0 | 4.0 | 0.37 | 24.34 | 3.0 | 18 | 12 | 84 | 8.0 | 20 | 10 | 45.00 | 3.0 | |
| 05 SWC 035 | 122.53 | 124.05 | 1.52 | 3.0 | 4.0 | 0.87 | 57.24 | 13.0 | 9999 | 6578 | 0 | 5.0 | 20 | 10 | 52.00 | 3.0 | broken core |
| 05 SWC 035 | 124.05 | 125.58 | 1.53 | 3.0 | 4.0 | 0.53 | 34.64 | 8.0 | 9999 | 6535 | 0 | 5.0 | 20 | 10 | 47.00 | 3.0 | broken core |
| 05 SWC 035 | 125.58 | 127.10 | 1.52 | 3.0 | 4.0 | 0.11 | 7.24 | 3.0 | 9999 | 6578 | 0 | 5.0 | 20 | 10 | 42.00 | 3.0 | broken core |
| 05 SWC 035 | 127.10 | 128.63 | 1.53 | 4.0 | 7.0 | 0.24 | 15.69 | 3.0 | 16 | 10 | 96 | 8.0 | 20 | 10 | 48.00 | 3.0 | |
| 05 SWC 035 | 128.63 | 130.15 | 1.52 | 3.0 | 4.0 | 0.32 | 21.05 | 3.0 | 9999 | 6578 | 0 | 5.0 | 18 | 10 | 40.00 | 2.0 | broken core, visible sulphides possibly pyrite or pyritotite |
| 05 SWC 035 | 130.15 | 131.67 | 1.52 | 3.0 | 4.0 | 0.59 | 38.82 | 8.0 | 11 | 7 | 138 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05 SWC 035 | 131.67 | 133.20 | 1.53 | 4.0 | 7.0 | 0.17 | 11.11 | 3.0 | 13 | 8 | 118 | 8.0 | 20 | 10 | 48.00 | 3.0 | |
| 05 SWC 035 | 133.20 | 134.72 | 1.52 | 4.0 | 7.0 | 0.68 | 44.74 | 8.0 | 15 | 10 | 101 | 8.0 | 20 | 10 | 53.00 | 3.0 | |
| 05 SWC 035 | 134.72 | 136.25 | 1.53 | 4.0 | 7.0 | 0.55 | 35.95 | 8.0 | 14 | 9 | 109 | 8.0 | 20 | 10 | 53.00 | 3.0 | |
| 05 SWC 035 | 136.25 | 137.77 | 1.52 | 4.0 | 7.0 | 0.63 | 41.45 | 8.0 | 10 | 7 | 152 | 8.0 | 20 | 10 | 53.00 | 3.0 | |
| 05 SWC 035 | 137.77 | 139.29 | 1.52 | 3.0 | 4.0 | 0.83 | 54.61 | 13.0 | 13 | 9 | 117 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 035 | 139.29 | 140.82 | 1.53 | 3.0 | 4.0 | 0.88 | 57.52 | 13.0 | 12 | 8 | 128 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 035 | 140.82 | 142.34 | 1.52 | 4.0 | 7.0 | 0.24 | 15.79 | 3.0 | 10 | 7 | 152 | 8.0 | 20 | 10 | 48.00 | 3.0 | |
| 05 SWC 035 | 142.34 | 143.87 | 1.53 | 4.0 | 7.0 | 0.55 | 35.95 | 8.0 | 7 | 5 | 219 | 10.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 035 | 143.87 | 145.39 | 1.52 | 3.0 | 4.0 | 0.65 | 42.76 | 8.0 | 8 | 5 | 190 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05 SWC 035 | 145.39 | 146.91 | 1.52 | 3.0 | 4.0 | 0.87 | 57.24 | 13.0 | 13 | 9 | 117 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 035 | 146.91 | 148.44 | 1.53 | 3.0 | 4.0 | 0.99 | 64.71 | 13.0 | 12 | 8 | 128 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 035 | 148.44 | 149.96 | 1.52 | 3.0 | 4.0 | 0.97 | 63.82 | 13.0 | 9 | 6 | 169 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 035 | 149.96 | 151.49 | 1.53 | 3.0 | 4.0 | 0.86 | 56.21 | 13.0 | 10 | 7 | 153 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 035 | 151.49 | 152.40 | 0.91 | 3.0 | 4.0 | 0.50 | 54.95 | 13.0 | 8 | 9 | 114 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 035 | 152.40 | 153.01 | 0.61 | 3.0 | 4.0 | 0.21 | 34.43 | 8.0 | 8 | 13 | 76 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05 SWC 035 | 153.01 | 154.53 | 1.52 | 3.0 | 4.0 | 0.82 | 53.95 | 13.0 | 12 | 8 | 127 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 035 | 154.53 | 156.06 | 1.53 | 3.0 | 4.0 | 0.92 | 60.13 | 13.0 | 7 | 5 | 219 | 10.0 | 20 | 10 | 57.00 | 3.0 | |
| 05 SWC 035 | 156.06 | 157.28 | 1.22 | 3.0 | 4.0 | 0.27 | 22.13 | 3.0 | 11 | 9 | 111 | 8.0 | 20 | 10 | 45.00 | 3.0 | |
| 05 SWC 035 | 157.28 | 158.19 | 0.91 | 3.0 | 4.0 | 0.47 | 51.65 | 13.0 | 8 | 9 | 114 | 8.0 | 20 | 10 | 55.00 | 3.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 SWC 035 | 158.19 | 159.11 | 0.92 | 3.0 | 4.0 | 0.18 | 19.57 | 3.0 | 9999 | 10868 | 0 | 5.0 | 20 | 10 | 42.00 | 3.0 | broken core |
| 05 SWC 035 | 159.11 | 160.63 | 1.52 | 3.0 | 4.0 | 0.41 | 26.97 | 8.0 | 11 | 7 | 138 | 8.0 | 18 | 10 | 48.00 | 3.0 | visible sulphides on joint walls (pyrotite?) |
| 05 SWC 035 | 160.63 | 162.15 | 1.52 | 3.0 | 4.0 | 0.84 | 55.26 | 13.0 | 8 | 5 | 190 | 8.0 | 20 | 10 | 55.00 | 3.0 | E.O.H. |
| 05 SWC 020 | 0 | 15.24 | 15.24 | | 0.0 | | | 0.0 | 9999 | 656 | 2 | 5.0 | 0 | 10 | 15.00 | 1.0 | CASING DEPTH |
| 05 SWC 020 | 15.24 | 15.85 | 0.61 | | 0.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 020 | 15.85 | 17.37 | 1.52 | | 0.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 020 | 17.37 | 18.90 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 020 | 18.90 | 20.42 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 020 | 20.42 | 21.95 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 020 | 21.95 | 23.47 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 020 | 23.47 | 24.99 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 020 | 24.99 | 26.52 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 020 | 26.52 | 28.04 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 020 | 28.04 | 29.57 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 020 | 29.57 | 31.09 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 020 | 31.09 | 35.05 | 3.96 | | 0.0 | | 0.00 | 0.0 | 9999 | 2525 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 020 | 35.05 | 36.58 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 020 | 36.58 | 37.80 | 1.22 | | 0.0 | | 0.00 | 0.0 | 9999 | 8196 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 020 | 37.80 | 39.01 | 1.21 | | 0.0 | | 0.00 | 0.0 | 9999 | 8264 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 020 | 39.01 | 40.23 | 1.22 | | 0.0 | | 0.00 | 0.0 | 9999 | 8196 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 020 | 40.23 | 41.76 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 020 | 41.76 | 43.28 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 020 | 43.28 | 44.81 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 020 | 44.81 | 45.87 | 1.06 | 5.0 | 12.0 | 0.00 | 0.00 | 0.0 | 4 | 4 | 265 | 10.0 | 14 | 10 | 46.00 | 3.0 | |
| 05 SWC 020 | 45.87 | 46.48 | 0.61 | 3.0 | 4.0 | 0.21 | 34.43 | 8.0 | 2 | 3 | 305 | 10.0 | 14 | 10 | 46.00 | 3.0 | |
| 05 SWC 020 | 46.48 | 47.70 | 1.22 | 3.0 | 4.0 | 0.18 | 14.75 | 3.0 | 5 | 4 | 244 | 10.0 | 14 | 10 | 41.00 | 3.0 | |
| 05 SWC 020 | 47.70 | 48.77 | 1.07 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 9345 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | |
| 05 SWC 020 | 48.77 | 49.38 | 0.61 | 2.0 | 2.0 | 0.20 | 32.79 | 8.0 | 5 | 8 | 122 | 8.0 | 13 | 10 | 41.00 | 3.0 | |
| 05 SWC 020 | 49.38 | 50.60 | 1.22 | 2.0 | 2.0 | 0.24 | 19.67 | 3.0 | 15 | 12 | 81 | 8.0 | 14 | 10 | 37.00 | 2.0 | |
| 05 SWC 020 | 50.60 | 51.82 | 1.22 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 16 | 13 | 76 | 8.0 | 14 | 10 | 36.00 | 2.0 | BROKEN UP |
| 05 SWC 020 | 51.82 | 53.34 | 1.52 | 3.0 | 4.0 | 0.37 | 24.34 | 3.0 | 19 | 13 | 80 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05 SWC 020 | 53.34 | 54.86 | 1.52 | 3.0 | 4.0 | 0.36 | 23.68 | 3.0 | 7 | 5 | 217 | 10.0 | 14 | 10 | 41.00 | 3.0 | |
| 05 SWC 020 | 54.86 | 55.47 | 0.61 | 3.0 | 4.0 | 0.75 | 122.95 | 20.0 | 2 | 3 | 305 | 10.0 | 16 | 10 | 60.00 | 3.0 | |
| 05 SWC 020 | 55.47 | 57.00 | 1.53 | 3.0 | 4.0 | 0.77 | 50.33 | 13.0 | 15 | 10 | 102 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 020 | 57.00 | 58.22 | 1.22 | 3.0 | 4.0 | 0.57 | 46.72 | 8.0 | 8 | 7 | 153 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 020 | 58.22 | 59.74 | 1.52 | 3.0 | 4.0 | 1.06 | 69.74 | 13.0 | 9 | 6 | 169 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 020 | 59.74 | 60.96 | 1.22 | 3.0 | 4.0 | 0.70 | 57.38 | 13.0 | 6 | 5 | 203 | 10.0 | 14 | 10 | 51.00 | 3.0 | |
| 05 SWC 020 | 60.96 | 61.57 | 0.61 | 3.0 | 4.0 | 0.47 | 77.05 | 17.0 | 5 | 8 | 122 | 8.0 | 16 | 10 | 55.00 | 3.0 | |
| 05 SWC 020 | 61.57 | 63.09 | 1.52 | 3.0 | 4.0 | 0.92 | 60.53 | 13.0 | 14 | 9 | 109 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 020 | 63.09 | 66.14 | 3.05 | 3.0 | 4.0 | 2.18 | 71.48 | 13.0 | 19 | 6 | 161 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 020 | 66.14 | 69.19 | 3.05 | 3.0 | 4.0 | 1.99 | 65.25 | 13.0 | 19 | 6 | 161 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 020 | 69.19 | 71.63 | 2.44 | 3.0 | 4.0 | 1.98 | 81.15 | 17.0 | 10 | 4 | 244 | 10.0 | 16 | 10 | 57.00 | 3.0 | |
| 05 SWC 020 | 71.63 | 73.76 | 2.13 | 3.0 | 4.0 | 1.44 | 67.61 | 13.0 | 16 | 8 | 133 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 020 | 73.76 | 76.81 | 3.05 | 3.0 | 4.0 | 0.70 | 22.95 | 3.0 | 38 | 12 | 80 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 020 | 76.81 | 79.70 | 2.89 | 3.0 | 4.0 | 0.98 | 33.91 | 8.0 | 30 | 10 | 96 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 020 | 79.70 | 81.38 | 1.68 | 3.0 | 4.0 | 0.73 | 43.45 | 8.0 | 10 | 6 | 168 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 020 | 81.38 | 84.43 | 3.05 | 3.0 | 4.0 | 2.47 | 80.98 | 17.0 | 20 | 7 | 153 | 8.0 | 16 | 10 | 55.00 | 3.0 | |
| 05 SWC 020 | 84.43 | 87.48 | 3.05 | 3.0 | 4.0 | 2.04 | 66.89 | 13.0 | 21 | 7 | 145 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 020 | 87.48 | 90.53 | 3.05 | 3.0 | 4.0 | 2.80 | 91.80 | 20.0 | 11 | 4 | 277 | 10.0 | 16 | 10 | 60.00 | 3.0 | |
| 05 SWC 020 | 90.53 | 93.57 | 3.04 | 3.0 | 4.0 | 2.52 | 82.89 | 17.0 | 13 | 4 | 234 | 10.0 | 16 | 10 | 57.00 | 3.0 | |
| 05 SWC 020 | 93.57 | 96.62 | 3.05 | 3.0 | 4.0 | 2.27 | 74.43 | 13.0 | 19 | 6 | 161 | 8.0 | 16 | 10 | 51.00 | 3.0 | E.O.H |
| 05SWC-012 | 0 | 12.80 | 12.80 | | 0.0 | | | 0.0 | 9999 | 781 | 1 | 5.0 | | 10 | 15.00 | 1.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05SWC-012 | 12.80 | 14.63 | 1.83 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 5464 | 0 | 5.0 | 0 | 10 | 19.00 | 1.0 | |
| 05SWC-012 | 14.63 | 15.25 | 0.62 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 3 | 5 | 207 | 10.0 | 0 | 10 | 24.00 | 2.0 | |
| 05SWC-012 | 15.25 | 17.68 | 2.43 | 3.0 | 4.0 | 0.55 | 22.63 | 3.0 | 9 | 4 | 270 | 10.0 | 12 | 10 | 39.00 | 2.0 | |
| 05SWC-012 | 17.68 | 18.90 | 1.22 | 3.0 | 4.0 | 1.17 | 95.90 | 20.0 | 6 | 5 | 203 | 10.0 | 12 | 10 | 56.00 | 3.0 | |
| 05SWC-012 | 18.90 | 20.42 | 1.52 | 2.0 | 2.0 | 0.29 | 19.08 | 3.0 | 1 | 1 | 1520 | 16.0 | 6 | 10 | 37.00 | 2.0 | |
| 05SWC-012 | 20.42 | 21.95 | 1.53 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 6 | 10 | 23.00 | 2.0 | |
| 05SWC-012 | 21.95 | 23.47 | 1.52 | 3.5 | 7.0 | 0.00 | 0.00 | 0.0 | 11 | 7 | 138 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05SWC-012 | 23.47 | 24.99 | 1.52 | 3.0 | 4.0 | 0.99 | 65.13 | 13.0 | 7 | 5 | 217 | 10.0 | 14 | 10 | 51.00 | 3.0 | |
| 05SWC-012 | 24.99 | 26.52 | 1.53 | 3.0 | 4.0 | 1.00 | 65.36 | 13.0 | 11 | 7 | 139 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05SWC-012 | 26.52 | 28.04 | 1.52 | 3.0 | 4.0 | 0.37 | 24.34 | 3.0 | 26 | 17 | 58 | 5.0 | 12 | 10 | 34.00 | 2.0 | |
| 05SWC-012 | 28.04 | 29.57 | 1.53 | 3.0 | 4.0 | 0.86 | 56.21 | 13.0 | 20 | 13 | 77 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05SWC-012 | 29.57 | 31.09 | 1.52 | 3.0 | 4.0 | 0.79 | 51.97 | 13.0 | 16 | 11 | 95 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05SWC-012 | 31.09 | 32.61 | 1.52 | 3.0 | 4.0 | 0.61 | 40.13 | 8.0 | 20 | 13 | 76 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05SWC-012 | 32.61 | 34.14 | 1.52 | 3.0 | 4.0 | 1.44 | 94.74 | 20.0 | 5 | 3 | 304 | 10.0 | 1 | 10 | 45.00 | 3.0 | |
| 05SWC-012 | 34.14 | 35.66 | 1.52 | 3.0 | 4.0 | 1.44 | 94.74 | 20.0 | 6 | 4 | 253 | 10.0 | 12 | 10 | 56.00 | 3.0 | |
| 05SWC-012 | 35.66 | 37.19 | 1.53 | 3.5 | 7.0 | 0.90 | 58.82 | 13.0 | 12 | 8 | 128 | 8.0 | 12 | 10 | 50.00 | 3.0 | |
| 05SWC-012 | 37.19 | 38.71 | 1.52 | 3.0 | 4.0 | 1.06 | 69.74 | 13.0 | 10 | 7 | 152 | 8.0 | 12 | 10 | 47.00 | 3.0 | |
| 05SWC-012 | 38.71 | 40.23 | 1.52 | 3.0 | 4.0 | 1.09 | 71.71 | 13.0 | 8 | 5 | 190 | 8.0 | 12 | 10 | 47.00 | 3.0 | |
| 05SWC-012 | 40.23 | 41.76 | 1.53 | 3.0 | 4.0 | 1.00 | 65.36 | 13.0 | 10 | 7 | 153 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05SWC-012 | 41.76 | 44.81 | 3.05 | 3.0 | 4.0 | 2.82 | 92.46 | 20.0 | 6 | 2 | 508 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05SWC-012 | 44.81 | 47.85 | 3.04 | 4.0 | 7.0 | 2.85 | 93.75 | 20.0 | 6 | 2 | 507 | 10.0 | 16 | 10 | 63.00 | 4.0 | |
| 05SWC-012 | 47.85 | 50.90 | 3.05 | 4.0 | 7.0 | 2.97 | 97.38 | 20.0 | 2 | 1 | 1525 | 16.0 | 22 | 10 | 75.00 | 4.0 | |
| 05SWC-012 | 50.90 | 53.95 | 3.05 | 4.0 | 7.0 | 2.41 | 79.02 | 17.0 | 15 | 5 | 203 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05SWC-012 | 53.95 | 57.00 | 3.05 | 4.5 | 12.0 | 2.50 | 81.97 | 17.0 | 6 | 2 | 508 | 10.0 | 18 | 10 | 67.00 | 4.0 | |
| 05SWC-012 | 57.00 | 60.05 | 3.05 | 4.0 | 7.0 | 2.92 | 95.74 | 20.0 | 12 | 4 | 254 | 10.0 | 20 | 10 | 67.00 | 4.0 | |
| 05SWC-012 | 60.05 | 63.09 | 3.04 | 3.5 | 7.0 | 2.28 | 75.00 | 13.0 | 12 | 4 | 253 | 10.0 | 20 | 10 | 60.00 | 3.0 | |
| 05SWC-012 | 63.09 | 65.84 | 2.75 | 4.0 | 7.0 | 1.43 | 52.00 | 13.0 | 21 | 8 | 131 | 8.0 | 20 | 10 | 58.00 | 3.0 | |
| 05SWC-012 | 65.84 | 68.88 | 3.04 | 4.0 | 7.0 | 2.90 | 95.39 | 20.0 | 8 | 3 | 380 | 10.0 | 20 | 10 | 67.00 | 4.0 | |
| 05SWC-012 | 68.88 | 72.08 | 3.20 | 3.5 | 7.0 | 2.80 | 87.50 | 17.0 | 9 | 3 | 356 | 10.0 | 20 | 10 | 64.00 | 4.0 | |
| 05SWC-012 | 72.08 | 75.29 | 3.21 | 3.5 | 7.0 | 2.74 | 85.36 | 17.0 | 17 | 5 | 189 | 8.0 | 22 | 10 | 64.00 | 4.0 | |
| 05SWC-012 | 75.29 | 78.33 | 3.04 | 3.0 | 4.0 | 2.24 | 73.68 | 13.0 | 16 | 5 | 190 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05SWC-012 | 78.33 | 80.70 | 2.37 | 3.0 | 4.0 | 1.03 | 43.46 | 8.0 | 27 | 11 | 88 | 8.0 | 12 | 10 | 42.00 | 3.0 | |
| 05SWC-012 | 80.70 | 83.82 | 3.12 | 3.0 | 4.0 | 1.15 | 36.86 | 8.0 | 20 | 6 | 156 | 8.0 | 12 | 10 | 42.00 | 3.0 | |
| 05SWC-012 | 83.82 | 86.87 | 3.05 | 3.0 | 4.0 | 2.00 | 65.57 | 13.0 | 16 | 5 | 191 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05SWC-012 | 86.87 | 87.48 | 0.61 | 3.5 | 7.0 | 0.00 | 0.00 | 0.0 | 8 | 13 | 76 | 8.0 | 18 | 10 | 43.00 | 3.0 | |
| 05SWC-012 | 87.48 | 90.53 | 3.05 | 4.0 | 7.0 | 2.21 | 72.46 | 13.0 | 11 | 4 | 277 | 10.0 | 20 | 10 | 60.00 | 3.0 | |
| 05SWC-012 | 90.53 | 92.35 | 1.82 | 4.0 | 7.0 | 1.52 | 83.52 | 17.0 | 5 | 3 | 364 | 10.0 | 22 | 10 | 66.00 | 4.0 | |
| 05SWC-012 | 92.35 | 93.57 | 1.22 | 3.0 | 4.0 | 1.31 | 107.38 | 20.0 | 6 | 5 | 203 | 10.0 | 22 | 10 | 66.00 | 4.0 | |
| 05SWC-012 | 93.57 | 94.79 | 1.22 | 3.0 | 4.0 | 0.62 | 50.82 | 13.0 | 9 | 7 | 136 | 8.0 | 22 | 10 | 57.00 | 3.0 | |
| 05SWC-012 | 94.79 | 96.62 | 1.83 | 3.0 | 4.0 | 1.80 | 98.36 | 20.0 | 6 | 3 | 305 | 10.0 | 24 | 10 | 68.00 | 4.0 | |
| 05SWC-012 | 96.62 | 99.67 | 3.05 | 3.0 | 4.0 | 2.74 | 89.84 | 17.0 | 4 | 1 | 762 | 16.0 | 22 | 10 | 69.00 | 4.0 | |
| 05SWC-012 | 99.67 | 102.72 | 3.05 | 3.0 | 4.0 | 2.72 | 89.18 | 17.0 | 6 | 2 | 508 | 10.0 | 22 | 10 | 63.00 | 4.0 | |
| 05SWC-012 | 102.72 | 105.77 | 3.05 | 3.0 | 4.0 | 2.69 | 88.20 | 17.0 | 12 | 4 | 254 | 10.0 | 24 | 10 | 65.00 | 4.0 | |
| 05SWC-012 | 105.77 | 108.81 | 3.04 | 3.0 | 4.0 | 2.49 | 81.91 | 17.0 | 8 | 3 | 380 | 10.0 | 24 | 10 | 65.00 | 4.0 | |
| 05SWC-012 | 108.81 | 111.86 | 3.05 | 3.0 | 4.0 | 2.9 | 95.08 | 20.0 | 10 | 3 | 305 | 10.0 | 24 | 10 | 68.00 | 4.0 | |
| 05 SWC 044 | 0 | 50.90 | 50.90 | | 0.0 | | | 0.0 | 9999 | 196 | 5 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurements recorded |
| 05 SWC 044 | 50.90 | 52.43 | 1.53 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 0 | 10 | 17.00 | 1.0 | broken core; mostly sand mixed with clay |
| 05 SWC 044 | 52.43 | 53.95 | 1.52 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | broken core; mostly sand mixed with clay |
| 05 SWC 044 | 53.95 | 55.47 | 1.52 | 3.0 | 4.0 | 0.11 | 7.24 | 3.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 34.00 | 2.0 | broken core |
| 05 SWC 044 | 55.47 | 57.00 | 1.53 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | E.O.H. broken core; mostly crushed rock |
| 05 SWC 042 | 0.00 | 52.12 | 52.12 | | 0.0 | | | 0.0 | 9999 | 192 | 5 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurements recorded |

| | | | | | | RQD | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | Length (m) | % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
| 05 SWC 042 | 52.12 | 53.64 | 1.52 | 3.0 | 4.0 | 0.16 | 10.53 | 3.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 34.00 | 2.0 | broken core; highly weathered |
| 05 SWC 042 | 53.64 | 55.17 | 1.53 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken core; highly weathered |
| 05 SWC 042 | 55.17 | 56.69 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 10 | 10 | 29.00 | 2.0 | broken core; highly weathered |
| 05 SWC 043 | 56.69 | 58.22 | 1.53 | | 0.0 | | | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments recorded |
| 05 SWC 043 | 58.22 | 59.74 | 1.52 | 2.0 | 2.0 | 0.45 | 29.61 | 8.0 | 10 | 7 | 152 | 8.0 | 14 | 10 | 42.00 | 3.0 | |
| 05 SWC 043 | 59.74 | 61.06 | 1.32 | 3.0 | 4.0 | 0.97 | 73.48 | 13.0 | 8 | 6 | 165 | 8.0 | 14 | 10 | 49.00 | 3.0 | E.O.H. |
| 05 SWC 041 | 0 | 15.24 | 15.24 | | 0.0 | | | 0.0 | 9999 | 656 | 2 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments recorded |
| 05 SWC 041 | 15.24 | 15.54 | 0.30 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 33330 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 15.54 | 17.07 | 1.53 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 17.07 | 18.59 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 18.59 | 20.12 | 1.53 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 20.12 | 21.64 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 21.64 | 23.16 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 23.16 | 24.69 | 1.53 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 24.69 | 26.21 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 26.21 | 27.74 | 1.53 | 3.0 | 4.0 | 0.12 | 7.84 | 3.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core |
| 05 SWC 041 | 27.74 | 29.26 | 1.52 | 3.0 | 4.0 | 0.39 | 25.66 | 8.0 | 9 | 6 | 169 | 8.0 | 14 | 10 | 44.00 | 3.0 | no visible joint sets; joints are too weathered |
| 05 SWC 041 | 29.26 | 30.78 | 1.52 | 3.0 | 4.0 | 0.17 | 11.18 | 3.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core |
| 05 SWC 041 | 30.78 | 32.31 | 1.53 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 32.31 | 33.83 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 33.83 | 35.36 | 1.53 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 35.36 | 36.68 | 1.32 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 7575 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 36.68 | 38.40 | 1.72 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 5813 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 38.40 | 39.93 | 1.53 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 39.93 | 41.45 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 0 | 10 | 19.00 | 1.0 | broken core |
| 05 SWC 041 | 41.45 | 42.98 | 1.53 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 42.98 | 44.50 | 1.52 | 3.0 | 4.0 | 0.13 | 8.55 | 3.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core |
| 05 SWC 041 | 44.50 | 45.42 | 0.92 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10868 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 45.42 | 46.33 | 0.91 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 46.33 | 47.55 | 1.22 | 3.0 | 4.0 | 0.24 | 19.67 | 3.0 | 9999 | 8196 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core; malachite on joints |
| 05 SWC 041 | 47.55 | 49.07 | 1.52 | 3.0 | 4.0 | 0.14 | 9.21 | 3.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core; malachite on joints |
| 05 SWC 041 | 49.07 | 50.60 | 1.53 | 3.0 | 4.0 | 0.34 | 22.22 | 3.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core; malachite on joints |
| 05 SWC 041 | 50.60 | 51.21 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 51.21 | 52.12 | 0.91 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 52.12 | 53.04 | 0.92 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10868 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 53.04 | 54.56 | 1.52 | 3.0 | 4.0 | 0.37 | 24.34 | 3.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core |
| 05 SWC 041 | 54.56 | 56.08 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 56.08 | 56.69 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core (weathered biotite) |
| 05 SWC 041 | 56.69 | 57.61 | 0.92 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10868 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 57.61 | 58.83 | 1.22 | 3.0 | 4.0 | 0.11 | 9.02 | 3.0 | 9999 | 8196 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core |
| 05 SWC 041 | 58.83 | 60.05 | 1.22 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 8196 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core; malachite on joints |
| 05 SWC 041 | 60.05 | 61.26 | 1.21 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 8264 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 61.26 | 61.57 | 0.31 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 32255 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 61.57 | 62.18 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 62.18 | 62.79 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 62.79 | 63.70 | 0.91 | 3.0 | 4.0 | 0.14 | 15.38 | 3.0 | 9999 | 10988 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core |
| 05 SWC 041 | 63.70 | 64.31 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core, specks of malachite |
| 05 SWC 041 | 64.31 | 64.92 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 0 | 10 | 19.00 | 1.0 | broken core |
| 05 SWC 041 | 64.92 | 65.23 | 0.31 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 32255 | 0 | 5.0 | 0 | 10 | 19.00 | 1.0 | broken core |
| 05 SWC 041 | 65.23 | 66.14 | 0.91 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core; malachite on joints |
| 05 SWC 041 | 66.14 | 66.75 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |

| | | | | | | RQD | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | Length (m) | % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
| 05 SWC 041 | 66.75 | 67.67 | 0.92 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10868 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 67.67 | 68.28 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 68.28 | 69.19 | 0.91 | 3.0 | 4.0 | 0.24 | 26.37 | 8.0 | 9999 | 10988 | 0 | 5.0 | 14 | 10 | 41.00 | 3.0 | broken core |
| 05 SWC 041 | 69.19 | 70.10 | 0.91 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 70.10 | 70.71 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 70.71 | 71.63 | 0.92 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10868 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 71.63 | 72.54 | 0.91 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 72.54 | 73.46 | 0.92 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10868 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core; malachite on joints |
| 05 SWC 041 | 73.46 | 74.98 | 1.52 | 3.0 | 4.0 | 0.11 | 7.24 | 3.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core |
| 05 SWC 041 | 74.98 | 76.50 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 76.50 | 78.03 | 1.53 | 3.0 | 4.0 | 0.29 | 18.95 | 3.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core |
| 05 SWC 041 | 78.03 | 79.55 | 1.52 | 3.0 | 4.0 | 0.16 | 10.53 | 3.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core |
| 05 SWC 041 | 79.55 | 81.08 | 1.53 | 3.0 | 4.0 | 0.25 | 16.34 | 3.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core |
| 05 SWC 041 | 81.08 | 82.60 | 1.52 | 3.0 | 4.0 | 0.59 | 38.82 | 8.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 41.00 | 3.0 | broken core |
| 05 SWC 041 | 82.60 | 84.12 | 1.52 | 3.0 | 4.0 | 0.12 | 7.89 | 3.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core |
| 05 SWC 041 | 84.12 | 85.65 | 1.53 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core; malachite on joints |
| 05 SWC 041 | 85.65 | 87.17 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 041 | 87.17 | 88.70 | 1.53 | 3.0 | 4.0 | 0.81 | 52.94 | 13.0 | 10 | 7 | 153 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 041 | 88.70 | 90.22 | 1.52 | 3.0 | 4.0 | 0.11 | 7.24 | 3.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core |
| 05 SWC 041 | 90.22 | 91.74 | 1.52 | 3.0 | 4.0 | 0.22 | 14.47 | 3.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core |
| 05 SWC 041 | 91.74 | 93.27 | 1.53 | 3.0 | 4.0 | 0.63 | 41.18 | 8.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 41.00 | 3.0 | broken core |
| 05 SWC 041 | 93.27 | 94.79 | 1.52 | 3.0 | 4.0 | 0.39 | 25.66 | 8.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 41.00 | 3.0 | broken core |
| 05 SWC 041 | 94.79 | 96.32 | 1.53 | 3.0 | 4.0 | 0.31 | 20.26 | 3.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core |
| 05 SWC 041 | 96.32 | 97.84 | 1.52 | 3.0 | 4.0 | 0.88 | 57.89 | 13.0 | 8 | 5 | 190 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 041 | 97.84 | 99.36 | 1.52 | 3.0 | 4.0 | 0.62 | 40.79 | 8.0 | 11 | 7 | 138 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 041 | 99.36 | 100.89 | 1.53 | 3.0 | 4.0 | 0.39 | 25.49 | 8.0 | 14 | 9 | 109 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 041 | 100.89 | 102.41 | 1.52 | 3.0 | 4.0 | 0.84 | 55.26 | 13.0 | 11 | 7 | 138 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 041 | 102.41 | 103.33 | 0.92 | 3.0 | 4.0 | 0.49 | 53.26 | 13.0 | 10 | 11 | 92 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 041 | 103.33 | 104.85 | 1.52 | 3.0 | 4.0 | 0.87 | 57.24 | 13.0 | 11 | 7 | 138 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 041 | 104.85 | 105.46 | 0.61 | 3.0 | 4.0 | 0.16 | 26.23 | 8.0 | 4 | 7 | 153 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 041 | 105.46 | 106.98 | 1.52 | 3.0 | 4.0 | 0.90 | 59.21 | 13.0 | 10 | 7 | 152 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 041 | 106.98 | 108.51 | 1.53 | 3.0 | 4.0 | 1.30 | 84.97 | 17.0 | 7 | 5 | 219 | 10.0 | 16 | 10 | 57.00 | 3.0 | |
| 05 SWC 041 | 108.51 | 110.03 | 1.52 | 3.0 | 4.0 | 1.33 | 87.50 | 17.0 | 6 | 4 | 253 | 10.0 | 16 | 10 | 57.00 | 3.0 | |
| 05 SWC 041 | 110.03 | 111.56 | 1.53 | 3.0 | 4.0 | 1.35 | 88.24 | 17.0 | 5 | 3 | 306 | 10.0 | 16 | 10 | 57.00 | 3.0 | |
| 05 SWC 041 | 111.56 | 113.08 | 1.52 | 3.0 | 4.0 | 1.08 | 71.05 | 13.0 | 8 | 5 | 190 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 041 | 113.08 | 114.60 | 1.52 | 3.0 | 4.0 | 0.49 | 32.24 | 8.0 | 10 | 7 | 152 | 8.0 | 16 | 10 | 46.00 | 3.0 | possible fault (?) or slickenside (?) |
| 05 SWC 041 | 114.60 | 116.13 | 1.53 | 3.0 | 4.0 | 0.70 | 45.75 | 8.0 | 13 | 8 | 118 | 8.0 | 16 | 10 | 46.00 | 3.0 | no visible joint sets; specks of chalcopyrite |
| 05 SWC 041 | 116.13 | 117.65 | 1.52 | 3.0 | 4.0 | 0.85 | 55.92 | 13.0 | 12 | 8 | 127 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 041 | 117.65 | 119.18 | 1.53 | 3.0 | 4.0 | 0.27 | 17.65 | 3.0 | 11 | 7 | 139 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 041 | 119.18 | 120.40 | 1.22 | 3.0 | 4.0 | 0.50 | 40.98 | 8.0 | 9 | 7 | 136 | 8.0 | 16 | 10 | 46.00 | 3.0 | no visible joint sets |
| 05 SWC 041 | 120.40 | 121.92 | 1.52 | 3.0 | 4.0 | 0.37 | 24.34 | 3.0 | 17 | 11 | 89 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 041 | 121.92 | 123.44 | 1.52 | 3.0 | 4.0 | 0.79 | 51.97 | 13.0 | 10 | 7 | 152 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 041 | 123.44 | 124.97 | 1.53 | 3.0 | 4.0 | 0.54 | 35.29 | 8.0 | 8 | 5 | 191 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 041 | 124.97 | 126.49 | 1.52 | 3.0 | 4.0 | 0.33 | 21.71 | 3.0 | 17 | 11 | 89 | 8.0 | 6 | 10 | 31.00 | 2.0 | slickenside surface on joints (?) |
| 05 SWC 041 | 126.49 | 128.02 | 1.53 | 3.0 | 4.0 | 1.21 | 79.08 | 17.0 | 9 | 6 | 170 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 041 | 128.02 | 129.54 | 1.52 | 3.0 | 4.0 | 0.98 | 64.47 | 13.0 | 8 | 5 | 190 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 041 | 129.54 | 131.06 | 1.52 | 3.0 | 4.0 | 0.97 | 63.82 | 13.0 | 12 | 8 | 127 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 041 | 131.06 | 132.59 | 1.53 | 3.0 | 4.0 | 1.24 | 81.05 | 17.0 | 8 | 5 | 191 | 8.0 | 18 | 10 | 57.00 | 3.0 | no visible joint sets |
| 05 SWC 041 | 132.59 | 134.11 | 1.52 | 3.0 | 4.0 | 1.40 | 92.11 | 20.0 | 4 | 3 | 380 | 10.0 | 18 | 10 | 62.00 | 4.0 | no visible joint sets; visible bands of magnetite |
| 05 SWC 041 | 134.11 | 135.64 | 1.53 | 3.0 | 4.0 | 0.54 | 35.29 | 8.0 | 11 | 7 | 139 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 041 | 135.64 | 135.94 | 0.30 | 3.0 | 4.0 | 0.11 | 36.67 | 8.0 | 2 | 7 | 150 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 041 | 135.94 | 137.46 | 1.52 | 3.0 | 4.0 | 1.06 | 69.74 | 13.0 | 5 | 3 | 304 | 10.0 | 18 | 10 | 55.00 | 3.0 | |
| 05 SWC 041 | 137.46 | 138.99 | 1.53 | 3.0 | 4.0 | 0.76 | 49.67 | 8.0 | 13 | 8 | 118 | 8.0 | 18 | 10 | 48.00 | 3.0 | no visible joint sets |
| 05 SWC 041 | 138.99 | 140.51 | 1.52 | 3.0 | 4.0 | 1.43 | 94.08 | 20.0 | 5 | 3 | 304 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05 SWC 041 | 140.51 | 142.04 | 1.53 | 3.0 | 4.0 | 0.67 | 43.79 | 8.0 | 10 | 7 | 153 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 041 | 142.04 | 143.56 | 1.52 | 3.0 | 4.0 | 1.25 | 82.24 | 17.0 | 6 | 4 | 253 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 041 | 143.56 | 145.08 | 1.52 | 3.0 | 4.0 | 1.19 | 78.29 | 17.0 | 6 | 4 | 253 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 041 | 145.08 | 146.61 | 1.53 | 3.0 | 4.0 | 0.86 | 56.21 | 13.0 | 15 | 10 | 102 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 041 | 146.61 | 148.13 | 1.52 | 3.0 | 4.0 | 1.48 | 97.37 | 20.0 | 5 | 3 | 304 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05 SWC 041 | 148.13 | 149.66 | 1.53 | 3.0 | 4.0 | 1.09 | 71.24 | 13.0 | 12 | 8 | 128 | 8.0 | 18 | 10 | 53.00 | 3.0 | specks of chalcopyrite on joint surfaces |
| 05 SWC 041 | 149.66 | 151.18 | 1.52 | 3.0 | 4.0 | 0.31 | 20.39 | 3.0 | 16 | 11 | 95 | 8.0 | 18 | 10 | 43.00 | 3.0 | broken core |
| 05 SWC 041 | 151.18 | 152.70 | 1.52 | 3.0 | 4.0 | 1.22 | 80.26 | 17.0 | 8 | 5 | 190 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 041 | 152.70 | 154.23 | 1.53 | 3.0 | 4.0 | 0.45 | 29.41 | 8.0 | 19 | 12 | 81 | 8.0 | 18 | 10 | 48.00 | 3.0 | broken core |

| | | | | | | RQD | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | Length (m) | % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
| 05 SWC 041 | 154.23 | 155.75 | 1.52 | 3.0 | 4.0 | 0.95 | 62.50 | 13.0 | 10 | 7 | 152 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 041 | 155.75 | 157.28 | 1.53 | 3.0 | 4.0 | 0.33 | 21.57 | 3.0 | 22 | 14 | 70 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 041 | 157.28 | 158.80 | 1.52 | 3.0 | 4.0 | 0.25 | 16.45 | 3.0 | 9999 | 6578 | 0 | 5.0 | 16 | 10 | 38.00 | 2.0 | broken core |
| 05 SWC 041 | 158.80 | 160.32 | 1.52 | 3.0 | 4.0 | 0.75 | 49.34 | 8.0 | 12 | 8 | 127 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 041 | 160.32 | 161.85 | 1.53 | 3.0 | 4.0 | 0.70 | 45.75 | 8.0 | 16 | 10 | 96 | 8.0 | 18 | 10 | 48.00 | 3.0 | visible bands of magnetite |
| 05 SWC 041 | 161.85 | 163.37 | 1.52 | 3.0 | 4.0 | 1.12 | 73.68 | 13.0 | 11 | 7 | 138 | 8.0 | 18 | 10 | 53.00 | 3.0 | no visible joint sets |
| 05 SWC 041 | 163.37 | 164.90 | 1.53 | 3.0 | 4.0 | 0.73 | 47.71 | 8.0 | 17 | 11 | 90 | 8.0 | 18 | 10 | 48.00 | 3.0 | specks of chalcopyrite on joint surfaces |
| 05 SWC 041 | 164.90 | 166.42 | 1.52 | 3.0 | 4.0 | 0.87 | 57.24 | 13.0 | 12 | 8 | 127 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 041 | 166.42 | 167.94 | 1.52 | 3.0 | 4.0 | 1.07 | 70.39 | 13.0 | 11 | 7 | 138 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 041 | 167.94 | 169.47 | 1.53 | 3.0 | 4.0 | 1.12 | 73.20 | 13.0 | 10 | 7 | 153 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 041 | 169.47 | 170.99 | 1.52 | 3.0 | 4.0 | 1.14 | 75.00 | 13.0 | 9 | 6 | 169 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 041 | 170.99 | 172.52 | 1.53 | 3.0 | 4.0 | 1.24 | 81.05 | 17.0 | 13 | 8 | 118 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 041 | 172.52 | 174.04 | 1.52 | 3.0 | 4.0 | 0.12 | 7.89 | 3.0 | 9999 | 6578 | 0 | 5.0 | 18 | 10 | 40.00 | 2.0 | E.O.H. |
| 05 SWC 040 | 0 | 61.26 | 61.26 | | 0.0 | | | 0.0 | 9999 | 163 | 6 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments recrded |
| 05 SWC 040 | 61.26 | 64.31 | 3.05 | 3.0 | 4.0 | 0.13 | 4.26 | 3.0 | 9999 | 3278 | 0 | 5.0 | 12 | 10 | 34.00 | 2.0 | broken core |
| 05 SWC 040 | 64.31 | 67.36 | 3.05 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 3278 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken core |
| 05 SWC 040 | 67.36 | 69.80 | 2.44 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 4098 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | broken core; bits of crushed rock and sand |
| 05 SWC 040 | 69.80 | 70.41 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken core |
| 05 SWC 040 | 70.41 | 71.32 | 0.91 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken core |
| 05 SWC 040 | 71.32 | 73.15 | 1.83 | 3.0 | 4.0 | 0.58 | 31.69 | 8.0 | 11 | 6 | 166 | 8.0 | 12 | 10 | 42.00 | 3.0 | |
| 05 SWC 040 | 73.15 | 73.46 | 0.31 | 3.0 | 4.0 | 0.15 | 48.39 | 8.0 | 2 | 6 | 155 | 8.0 | 12 | 10 | 42.00 | 3.0 | visible azaurite between joints |
| 05 SWC 040 | 73.46 | 74.98 | 1.52 | 3.0 | 4.0 | 0.87 | 57.24 | 13.0 | 11 | 7 | 138 | 8.0 | 12 | 10 | 47.00 | 3.0 | visible azaurite and malachite on joint walls |
| 05 SWC 040 | 74.98 | 77.42 | 2.44 | 3.0 | 4.0 | 0.11 | 4.51 | 3.0 | 9999 | 4098 | 0 | 5.0 | 12 | 10 | 34.00 | 2.0 | broken core; visible malachite; lots of weathered biotite |
| 05 SWC 040 | 77.42 | 77.72 | 0.30 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 33330 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken core |
| 05 SWC 040 | 77.72 | 80.77 | 3.05 | 2.5 | 4.0 | 0.77 | 25.25 | 8.0 | 35 | 11 | 87 | 8.0 | 12 | 10 | 42.00 | 3.0 | visible malachite |
| 05 SWC 040 | 80.77 | 82.30 | 1.53 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 12 | 10 | 29.00 | 2.0 | broken core |
| 05 SWC 040 | 82.30 | 84.12 | 1.82 | 2.0 | 2.0 | 0.27 | 14.84 | 3.0 | 9999 | 5494 | 0 | 5.0 | 10 | 10 | 30.00 | 2.0 | broken core |
| 05 SWC 040 | 84.12 | 87.17 | 3.05 | 3.0 | 4.0 | 1.09 | 35.74 | 8.0 | 26 | 9 | 117 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 040 | 87.17 | 90.22 | 3.05 | 3.0 | 4.0 | 2.38 | 78.03 | 17.0 | 18 | 6 | 169 | 8.0 | 14 | 10 | 53.00 | 3.0 | |
| 05 SWC 040 | 90.22 | 91.14 | 0.92 | 3.0 | 4.0 | 0.51 | 55.43 | 13.0 | 4 | 4 | 230 | 10.0 | 16 | 10 | 53.00 | 3.0 | specks of malachite |
| 05 SWC 040 | 91.14 | 93.27 | 2.13 | 3.0 | 4.0 | 0.44 | 20.66 | 3.0 | 22 | 10 | 97 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 040 | 93.27 | 94.03 | 0.76 | 3.0 | 4.0 | 0.25 | 32.89 | 8.0 | 9999 | 13157 | 0 | 5.0 | 16 | 10 | 43.00 | 3.0 | broken core; visible chalcopyrite on joint walls |
| 05 SWC 040 | 94.03 | 95.40 | 1.37 | 3.0 | 4.0 | 0.32 | 23.36 | 3.0 | 9 | 7 | 152 | 8.0 | 16 | 10 | 41.00 | 3.0 | traces of chalcopyrite, visible magnetite |
| 05 SWC 040 | 95.40 | 97.54 | 2.14 | 3.0 | 4.0 | 0.80 | 37.38 | 8.0 | 22 | 10 | 97 | 8.0 | 16 | 10 | 46.00 | 3.0 | visible chalcopyrite |
| 05 SWC 040 | 97.54 | 99.36 | 1.82 | 3.0 | 4.0 | 0.23 | 12.64 | 3.0 | 21 | 12 | 87 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 040 | 99.36 | 100.89 | 1.53 | 3.0 | 4.0 | 0.28 | 18.30 | 3.0 | 20 | 13 | 77 | 8.0 | 16 | 10 | 41.00 | 3.0 | visible bands of magnetite |
| 05 SWC 040 | 100.89 | 102.41 | 1.52 | 3.0 | 4.0 | 0.58 | 38.16 | 8.0 | 13 | 9 | 117 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 040 | 102.41 | 105.46 | 3.05 | 3.0 | 4.0 | 1.83 | 60.00 | 13.0 | 32 | 10 | 95 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 040 | 105.46 | 108.51 | 3.05 | 3.0 | 4.0 | 1.63 | 53.44 | 13.0 | 33 | 11 | 92 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 040 | 108.51 | 111.56 | 3.05 | 3.0 | 4.0 | 1.18 | 38.69 | 8.0 | 34 | 11 | 90 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 040 | 111.56 | 114.60 | 3.04 | 3.0 | 4.0 | 1.39 | 45.72 | 8.0 | 29 | 10 | 105 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 040 | 114.60 | 117.65 | 3.05 | 3.0 | 4.0 | 2.63 | 86.23 | 17.0 | 15 | 5 | 203 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 040 | 117.65 | 120.70 | 3.05 | 3.0 | 4.0 | 2.20 | 72.13 | 13.0 | 18 | 6 | 169 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 040 | 120.70 | 123.75 | 3.05 | 3.0 | 4.0 | 2.46 | 80.66 | 17.0 | 14 | 5 | 218 | 10.0 | 20 | 10 | 61.00 | 4.0 | |
| 05 SWC 040 | 123.75 | 126.80 | 3.05 | 3.0 | 4.0 | 2.36 | 77.38 | 17.0 | 16 | 5 | 191 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 040 | 126.80 | 129.84 | 3.04 | 3.0 | 4.0 | 2.24 | 73.68 | 13.0 | 17 | 6 | 179 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 040 | 129.84 | 132.89 | 3.05 | 3.0 | 4.0 | 2.21 | 72.46 | 13.0 | 19 | 6 | 161 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 040 | 132.89 | 135.94 | 3.05 | 3.0 | 4.0 | 1.34 | 43.93 | 8.0 | 33 | 11 | 92 | 8.0 | 20 | 10 | 50.00 | 3.0 | starting to see chalcopyrite on joint walls again |
| 05 SWC 040 | 135.94 | 138.99 | 3.05 | 3.0 | 4.0 | 1.34 | 43.93 | 8.0 | 9999 | 3278 | 0 | 5.0 | 20 | 10 | 47.00 | 3.0 | broken core |
| 05 SWC 040 | 138.99 | 142.04 | 3.05 | 3.0 | 4.0 | 2.07 | 67.87 | 13.0 | 23 | 8 | 133 | 8.0 | 20 | 10 | 55.00 | 3.0 | visible chalcopyrite on joint walls |
| 05 SWC 040 | 142.04 | 145.08 | 3.04 | 3.0 | 4.0 | 2.27 | 74.67 | 13.0 | 23 | 8 | 132 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 040 | 145.08 | 148.13 | 3.05 | 3.0 | 4.0 | 1.68 | 55.08 | 13.0 | 28 | 9 | 109 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 040 | 148.13 | 150.88 | 2.75 | 3.0 | 4.0 | 1.17 | 42.55 | 8.0 | 18 | 7 | 153 | 8.0 | 20 | 10 | 50.00 | 3.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 SWC 040 | 150.88 | 152.70 | 1.82 | 3.0 | 4.0 | 0.39 | 21.43 | 3.0 | 18 | 10 | 101 | 8.0 | 20 | 10 | 45.00 | 3.0 | |
| 05 SWC 040 | 152.70 | 154.23 | 1.53 | 3.0 | 4.0 | 1.62 | 105.88 | 20.0 | 14 | 9 | 109 | 8.0 | 20 | 10 | 62.00 | 4.0 | |
| 05 SWC 040 | 154.23 | 157.28 | 3.05 | 3.0 | 4.0 | 1.20 | 39.34 | 8.0 | 16 | 5 | 191 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05 SWC 040 | 157.28 | 160.32 | 3.04 | 3.0 | 4.0 | 1.22 | 40.13 | 8.0 | 29 | 10 | 105 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 040 | 160.32 | 163.37 | 3.05 | 3.0 | 4.0 | 1.96 | 64.26 | 13.0 | 19 | 6 | 161 | 8.0 | 20 | 10 | 55.00 | 3.0 | E.O.H. |
| 05 SWC 039 | 0 | 15.24 | 15.24 | | 0.0 | | | 0.0 | 9999 | 656 | 2 | 5.0 | | 10 | 15.00 | 1.0 | overburden- no measurments recorded |
| 05 SWC 039 | 15.24 | 18.59 | 3.35 | 1.0 | 1.0 | 0.45 | 13.43 | 3.0 | 14 | 4 | 239 | 10.0 | 10 | 10 | 34.00 | 2.0 | very weathered rock |
| 05 SWC 039 | 18.59 | 19.51 | 0.92 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 10868 | 0 | 5.0 | 10 | 10 | 26.00 | 2.0 | crumbled up rock |
| 05 SWC 039 | 19.51 | 21.03 | 1.52 | 1.0 | 1.0 | 0.42 | 27.63 | 8.0 | 12 | 8 | 127 | 8.0 | 10 | 10 | 37.00 | 2.0 | very weathered rock |
| 05 SWC 039 | 21.03 | 21.64 | 0.61 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 10 | 10 | 26.00 | 2.0 | |
| 05 SWC 039 | 21.64 | 22.56 | 0.92 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 10868 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | crumbled up rock |
| 05 SWC 039 | 22.56 | 23.47 | 0.91 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | crumbled up rock |
| 05 SWC 039 | 23.47 | 24.69 | 1.22 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 8196 | 0 | 5.0 | 10 | 10 | 26.00 | 2.0 | very weathered rock |
| 05 SWC 039 | 24.69 | 25.91 | 1.22 | 1.0 | 1.0 | 0.47 | 38.52 | 8.0 | 6 | 5 | 203 | 10.0 | 10 | 10 | 39.00 | 2.0 | very weathered rock |
| 05 SWC 039 | 25.91 | 27.43 | 1.52 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 7 | 5 | 217 | 10.0 | 10 | 10 | 31.00 | 2.0 | very weathered rock |
| 05 SWC 039 | 27.43 | 28.96 | 1.53 | 1.0 | 1.0 | 0.11 | 7.19 | 3.0 | 9999 | 6535 | 0 | 5.0 | 10 | 10 | 29.00 | 2.0 | broken core |
| 05 SWC 039 | 28.96 | 30.18 | 1.22 | 1.0 | 1.0 | 0.15 | 12.30 | 3.0 | 9999 | 8196 | 0 | 5.0 | 10 | 10 | 29.00 | 2.0 | broken core |
| 05 SWC 039 | 30.18 | 30.78 | 0.60 | 2.0 | 2.0 | 0.14 | 23.33 | 3.0 | 9999 | 16665 | 0 | 5.0 | 10 | 10 | 30.00 | 2.0 | broken core |
| 05 SWC 039 | 30.78 | 32.31 | 1.53 | 2.0 | 2.0 | 0.25 | 16.34 | 3.0 | 7 | 5 | 219 | 10.0 | 10 | 10 | 35.00 | 2.0 | |
| 05 SWC 039 | 32.31 | 33.83 | 1.52 | 2.0 | 2.0 | 0.58 | 38.16 | 8.0 | 5 | 3 | 304 | 10.0 | 10 | 10 | 40.00 | 2.0 | |
| 05 SWC 039 | 33.83 | 35.36 | 1.53 | 3.0 | 4.0 | 0.31 | 20.26 | 3.0 | 10 | 7 | 153 | 8.0 | 12 | 10 | 37.00 | 2.0 | |
| 05 SWC 039 | 35.36 | 36.88 | 1.52 | 3.0 | 4.0 | 0.11 | 7.24 | 3.0 | 9999 | 6578 | 0 | 5.0 | 13 | 10 | 35.00 | 2.0 | broken core |
| 05 SWC 039 | 36.88 | 38.40 | 1.52 | 3.0 | 4.0 | 0.54 | 35.53 | 8.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 39.00 | 2.0 | broken core |
| 05 SWC 039 | 38.40 | 39.93 | 1.53 | 3.0 | 4.0 | 0.35 | 22.88 | 3.0 | 10 | 7 | 153 | 8.0 | 12 | 10 | 37.00 | 2.0 | |
| 05 SWC 039 | 39.93 | 41.45 | 1.52 | 3.0 | 4.0 | 0.48 | 31.58 | 8.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 39.00 | 2.0 | broken core |
| 05 SWC 039 | 41.45 | 42.98 | 1.53 | 3.0 | 4.0 | 0.37 | 24.18 | 3.0 | 9999 | 6535 | 0 | 5.0 | 12 | 10 | 34.00 | 2.0 | broken core |
| 05 SWC 039 | 42.98 | 44.50 | 1.52 | 3.0 | 4.0 | 0.25 | 16.45 | 3.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core |
| 05 SWC 039 | 44.50 | 46.02 | 1.52 | 3.0 | 4.0 | 0.60 | 39.47 | 8.0 | 9 | 6 | 169 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 039 | 46.02 | 47.55 | 1.53 | 3.0 | 4.0 | 0.46 | 30.07 | 8.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 41.00 | 3.0 | broken core |
| 05 SWC 039 | 47.55 | 49.07 | 1.52 | 3.0 | 4.0 | 0.46 | 30.26 | 8.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 41.00 | 3.0 | broken core |
| 05 SWC 039 | 49.07 | 50.60 | 1.53 | 3.0 | 4.0 | 0.72 | 47.06 | 8.0 | 11 | 7 | 139 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 039 | 50.60 | 52.12 | 1.52 | 3.0 | 4.0 | 0.65 | 42.76 | 8.0 | 8 | 5 | 190 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 039 | 52.12 | 53.64 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | malachite starting to show on joint surfaces |
| 05 SWC 039 | 53.64 | 55.17 | 1.53 | 3.0 | 4.0 | 0.12 | 7.84 | 3.0 | 9999 | 6535 | 0 | 5.0 | 16 | 10 | 38.00 | 2.0 | visible malachite |
| 05 SWC 039 | 55.17 | 56.69 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | visible malachite |
| 05 SWC 039 | 56.69 | 58.22 | 1.53 | 3.0 | 4.0 | 0.11 | 7.19 | 3.0 | 24 | 16 | 64 | 8.0 | 16 | 10 | 41.00 | 3.0 | visible malachite; starting to see bands of magnetite |
| 05 SWC 039 | 58.22 | 59.74 | 1.52 | 3.0 | 4.0 | 0.38 | 25.00 | 3.0 | 12 | 8 | 127 | 8.0 | 16 | 10 | 41.00 | 3.0 | malachite; bands of magnetite |
| 05 SWC 039 | 59.74 | 61.26 | 1.52 | 3.0 | 4.0 | 0.14 | 9.21 | 3.0 | 12 | 8 | 127 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 039 | 61.26 | 62.79 | 1.53 | 3.0 | 4.0 | 0.26 | 16.99 | 3.0 | 17 | 11 | 90 | 8.0 | 16 | 10 | 41.00 | 3.0 | starting to see chalcopyrite |
| 05 SWC 039 | 62.79 | 64.31 | 1.52 | 3.0 | 4.0 | 0.34 | 22.37 | 3.0 | 17 | 11 | 89 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 039 | 64.31 | 65.84 | 1.53 | 3.0 | 4.0 | 0.57 | 37.25 | 8.0 | 18 | 12 | 85 | 8.0 | 16 | 10 | 46.00 | 3.0 | visible malachite, bornite, chalcopyrite |
| 05 SWC 039 | 65.84 | 67.36 | 1.52 | 3.0 | 4.0 | 0.78 | 51.32 | 13.0 | 15 | 10 | 101 | 8.0 | 16 | 10 | 51.00 | 3.0 | visible malachite, bornite, chalcopyrite, magnetite |
| 05 SWC 039 | 67.36 | 68.88 | 1.52 | 3.0 | 4.0 | 1.11 | 73.03 | 13.0 | 11 | 7 | 138 | 8.0 | 18 | 10 | 53.00 | 3.0 | visible malachite, bornite, chalcopyrite, magnetite |
| 05 SWC 039 | 68.88 | 70.41 | 1.53 | 3.0 | 4.0 | 0.85 | 55.56 | 13.0 | 10 | 7 | 153 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 039 | 70.41 | 71.93 | 1.52 | 3.0 | 4.0 | 0.36 | 23.68 | 3.0 | 11 | 7 | 138 | 8.0 | 18 | 10 | 43.00 | 3.0 | |
| 05 SWC 039 | 71.93 | 73.46 | 1.53 | 3.0 | 4.0 | 0.66 | 43.14 | 8.0 | 14 | 9 | 109 | 8.0 | 18 | 10 | 48.00 | 3.0 | malachite on joint surfaces |
| 05 SWC 039 | 73.46 | 74.98 | 1.52 | 3.0 | 4.0 | 0.85 | 55.92 | 13.0 | 12 | 8 | 127 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 039 | 74.98 | 76.50 | 1.52 | 3.0 | 4.0 | 0.95 | 62.50 | 13.0 | 10 | 7 | 152 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 039 | 76.50 | 78.03 | 1.53 | 3.0 | 4.0 | 1.48 | 96.73 | 20.0 | 6 | 4 | 255 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05 SWC 039 | 78.03 | 79.55 | 1.52 | 3.0 | 4.0 | 0.85 | 55.92 | 13.0 | 13 | 9 | 117 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 039 | 79.55 | 81.08 | 1.53 | 3.0 | 4.0 | 0.78 | 50.98 | 13.0 | 10 | 7 | 153 | 8.0 | 18 | 10 | 53.00 | 3.0 | chalcopyrite on joint surfaces |
| 05 SWC 039 | 81.08 | 82.60 | 1.52 | 3.0 | 4.0 | 0.51 | 33.55 | 8.0 | 13 | 9 | 117 | 8.0 | 18 | 10 | 48.00 | 3.0 | chalcopyrite and bornite on joint surfaces |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 SWC 039 | 82.60 | 84.12 | 1.52 | 3.0 | 4.0 | 0.75 | 49.34 | 8.0 | 11 | 7 | 138 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 039 | 84.12 | 85.65 | 1.53 | 3.0 | 4.0 | 0.91 | 59.48 | 13.0 | 13 | 8 | 118 | 8.0 | 18 | 10 | 53.00 | 3.0 | chalcopyrite on joint surfaces |
| 05 SWC 039 | 85.65 | 87.17 | 1.52 | 3.0 | 4.0 | 1.00 | 65.79 | 13.0 | 10 | 7 | 152 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 039 | 87.17 | 88.70 | 1.53 | 3.0 | 4.0 | 1.19 | 77.78 | 17.0 | 8 | 5 | 191 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 039 | 88.70 | 90.22 | 1.52 | 3.0 | 4.0 | 1.49 | 98.03 | 20.0 | 4 | 3 | 380 | 10.0 | 20 | 10 | 64.00 | 4.0 | |
| 05 SWC 039 | 90.22 | 91.74 | 1.52 | 3.0 | 4.0 | 1.38 | 90.79 | 20.0 | 7 | 5 | 217 | 10.0 | 20 | 10 | 64.00 | 4.0 | |
| 05 SWC 039 | 91.74 | 93.27 | 1.53 | 3.0 | 4.0 | 1.28 | 83.66 | 17.0 | 5 | 3 | 306 | 10.0 | 20 | 10 | 61.00 | 4.0 | |
| 05 SWC 039 | 93.27 | 94.79 | 1.52 | 3.0 | 4.0 | 1.35 | 88.82 | 17.0 | 5 | 3 | 304 | 10.0 | 20 | 10 | 61.00 | 4.0 | |
| 05 SWC 039 | 94.79 | 96.32 | 1.53 | 3.0 | 4.0 | 1.07 | 69.93 | 13.0 | 5 | 3 | 306 | 10.0 | 20 | 10 | 57.00 | 3.0 | possible epidote on joint walls |
| 05 SWC 039 | 96.32 | 97.84 | 1.52 | 3.0 | 4.0 | 1.12 | 73.68 | 13.0 | 9 | 6 | 169 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 039 | 97.84 | 99.36 | 1.52 | 3.0 | 4.0 | 0.90 | 59.21 | 13.0 | 11 | 7 | 138 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 039 | 99.36 | 100.89 | 1.53 | 3.0 | 4.0 | 1.37 | 89.54 | 17.0 | 8 | 5 | 191 | 8.0 | 20 | 10 | 59.00 | 3.0 | |
| 05 SWC 039 | 100.89 | 102.41 | 1.52 | 3.0 | 4.0 | 1.31 | 86.18 | 17.0 | 8 | 5 | 190 | 8.0 | 20 | 10 | 59.00 | 3.0 | |
| 05 SWC 039 | 102.41 | 103.94 | 1.53 | 3.0 | 4.0 | 0.76 | 49.67 | 8.0 | 12 | 8 | 128 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05 SWC 039 | 103.94 | 105.46 | 1.52 | 3.0 | 4.0 | 0.74 | 48.68 | 8.0 | 10 | 7 | 152 | 8.0 | 20 | 10 | 50.00 | 3.0 | part of interval is very broken up |
| 05 SWC 039 | 105.46 | 106.98 | 1.52 | 3.0 | 4.0 | 0.80 | 52.63 | 13.0 | 10 | 7 | 152 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 039 | 106.98 | 108.51 | 1.53 | 3.0 | 4.0 | 0.80 | 52.29 | 13.0 | 10 | 7 | 153 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 039 | 108.51 | 110.03 | 1.52 | 3.0 | 4.0 | 0.85 | 55.92 | 13.0 | 11 | 7 | 138 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 039 | 110.03 | 111.56 | 1.53 | 3.0 | 4.0 | 0.91 | 59.48 | 13.0 | 11 | 7 | 139 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 039 | 111.56 | 113.08 | 1.52 | 3.0 | 4.0 | 1.01 | 66.45 | 13.0 | 11 | 7 | 138 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 039 | 113.08 | 114.60 | 1.52 | 3.0 | 4.0 | 1.35 | 88.82 | 17.0 | 8 | 5 | 190 | 8.0 | 20 | 10 | 59.00 | 3.0 | |
| 05 SWC 039 | 114.60 | 116.13 | 1.53 | 3.0 | 4.0 | 0.68 | 44.44 | 8.0 | 13 | 8 | 118 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05 SWC 039 | 116.13 | 117.65 | 1.52 | 3.0 | 4.0 | 1.30 | 85.53 | 17.0 | 6 | 4 | 253 | 10.0 | 20 | 10 | 61.00 | 4.0 | |
| 05 SWC 039 | 117.65 | 119.18 | 1.53 | 3.0 | 4.0 | 0.78 | 50.98 | 13.0 | 9 | 6 | 170 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 039 | 119.18 | 120.70 | 1.52 | 3.0 | 4.0 | 0.92 | 60.53 | 13.0 | 12 | 8 | 127 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 039 | 120.70 | 122.22 | 1.52 | 3.0 | 4.0 | 1.16 | 76.32 | 17.0 | 8 | 5 | 190 | 8.0 | 20 | 10 | 59.00 | 3.0 | |
| 05 SWC 039 | 122.22 | 123.75 | 1.53 | 3.0 | 4.0 | 1.41 | 92.16 | 20.0 | 7 | 5 | 219 | 10.0 | 20 | 10 | 64.00 | 4.0 | |
| 05 SWC 039 | 123.75 | 125.27 | 1.52 | 3.0 | 4.0 | 0.52 | 34.21 | 8.0 | 10 | 7 | 152 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05 SWC 039 | 125.27 | 126.80 | 1.53 | 3.0 | 4.0 | 1.28 | 83.66 | 17.0 | 5 | 3 | 306 | 10.0 | 20 | 10 | 61.00 | 4.0 | |
| 05 SWC 039 | 126.80 | 128.32 | 1.52 | 3.0 | 4.0 | 0.92 | 60.53 | 13.0 | 9 | 6 | 169 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 039 | 128.32 | 129.84 | 1.52 | 3.0 | 4.0 | 1.22 | 80.26 | 17.0 | 10 | 7 | 152 | 8.0 | 20 | 10 | 59.00 | 3.0 | |
| 05 SWC 039 | 129.84 | 131.37 | 1.53 | 3.0 | 4.0 | 0.66 | 43.14 | 8.0 | 22 | 14 | 70 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05 SWC 039 | 131.37 | 132.89 | 1.52 | 3.0 | 4.0 | 0.75 | 49.34 | 8.0 | 14 | 9 | 109 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05 SWC 039 | 132.89 | 134.42 | 1.53 | 3.0 | 4.0 | 0.72 | 47.06 | 8.0 | 12 | 8 | 128 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05 SWC 039 | 134.42 | 135.94 | 1.52 | 3.0 | 4.0 | 0.98 | 64.47 | 13.0 | 13 | 9 | 117 | 8.0 | 20 | 10 | 55.00 | 3.0 | part of interval is very broken up |
| 05 SWC 039 | 135.94 | 137.46 | 1.52 | 3.0 | 4.0 | 1.04 | 68.42 | 13.0 | 9 | 6 | 169 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 039 | 137.46 | 138.99 | 1.53 | 3.0 | 4.0 | 0.79 | 51.63 | 13.0 | 12 | 8 | 128 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 039 | 138.99 | 140.51 | 1.52 | 3.0 | 4.0 | 0.94 | 61.84 | 13.0 | 9 | 6 | 169 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 039 | 140.51 | 142.04 | 1.53 | 3.0 | 4.0 | 1.01 | 66.01 | 13.0 | 9 | 6 | 170 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 039 | 142.04 | 143.56 | 1.52 | 3.0 | 4.0 | 1.09 | 71.71 | 13.0 | 11 | 7 | 138 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 039 | 143.56 | 145.08 | 1.52 | 2.0 | 2.0 | 0.88 | 57.89 | 13.0 | 9 | 6 | 169 | 8.0 | 18 | 10 | 51.00 | 3.0 | fault |
| 05 SWC 039 | 145.08 | 146.61 | 1.53 | 3.0 | 4.0 | 0.14 | 9.15 | 3.0 | 9999 | 6535 | 0 | 5.0 | 18 | 10 | 40.00 | 2.0 | fault; broken core |
| 05 SWC 039 | 146.61 | 148.13 | 1.52 | 3.0 | 4.0 | 0.50 | 32.89 | 8.0 | 14 | 9 | 109 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 039 | 148.13 | 149.66 | 1.53 | 3.0 | 4.0 | 0.68 | 44.44 | 8.0 | 13 | 8 | 118 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 039 | 149.66 | 151.18 | 1.52 | 3.0 | 4.0 | 0.26 | 17.11 | 3.0 | 9999 | 6578 | 0 | 5.0 | 18 | 10 | 40.00 | 2.0 | broken core |
| 05 SWC 039 | 151.18 | 152.70 | 1.52 | 3.0 | 4.0 | 1.33 | 87.50 | 17.0 | 7 | 5 | 217 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 039 | 152.70 | 154.23 | 1.53 | 3.0 | 4.0 | 0.99 | 64.71 | 13.0 | 11 | 7 | 139 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 039 | 154.23 | 155.75 | 1.52 | 3.0 | 4.0 | 0.66 | 43.42 | 8.0 | 14 | 9 | 109 | 8.0 | 18 | 10 | 48.00 | 3.0 | chalcopyrite on joint surfaces |
| 05 SWC 039 | 155.75 | 157.28 | 1.53 | 3.0 | 4.0 | 0.70 | 45.75 | 8.0 | 14 | 9 | 109 | 8.0 | 18 | 10 | 48.00 | 3.0 | chalcopyrite on joint surfaces |
| 05 SWC 039 | 157.28 | 158.80 | 1.52 | 3.0 | 4.0 | 0.38 | 25.00 | 3.0 | 13 | 9 | 117 | 8.0 | 18 | 10 | 43.00 | 3.0 | |
| 05 SWC 039 | 158.80 | 160.32 | 1.52 | 3.0 | 4.0 | 1.17 | 76.97 | 17.0 | 11 | 7 | 138 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 039 | 160.32 | 161.85 | 1.53 | 3.0 | 4.0 | 1.15 | 75.16 | 17.0 | 6 | 4 | 255 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 039 | 161.85 | 163.37 | 1.52 | 3.0 | 4.0 | 1.10 | 72.37 | 13.0 | 13 | 9 | 117 | 8.0 | 18 | 10 | 53.00 | 3.0 | chalcopyrite on joint surfaces |
| 05 SWC 039 | 163.37 | 164.90 | 1.53 | 3.0 | 4.0 | 1.07 | 69.93 | 13.0 | 10 | 7 | 153 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 039 | 164.90 | 166.42 | 1.52 | 3.0 | 4.0 | 1.10 | 72.37 | 13.0 | 11 | 7 | 138 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 039 | 166.42 | 167.94 | 1.52 | 3.0 | 4.0 | 0.53 | 34.87 | 8.0 | 12 | 8 | 127 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 039 | 167.94 | 169.47 | 1.53 | 3.0 | 4.0 | 0.58 | 37.91 | 8.0 | 14 | 9 | 109 | 8.0 | 18 | 10 | 48.00 | 3.0 | E.O.H. |
| 05 SWC 037 | 0 | 66.14 | 66.14 | | 0.0 | | | 0.0 | 9999 | 151 | 7 | 5.0 | | 10 | 15.00 | 1.0 | overburden- no measurments recorded |
| 05 SWC 037 | 66.14 | 67.67 | 1.53 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | broken core- bits of crushed up rock and clay |
| 05 SWC 037 | 67.67 | 69.19 | 1.52 | 2.0 | 2.0 | 0.12 | 7.89 | 3.0 | 9999 | 6578 | 0 | 5.0 | 10 | 10 | 30.00 | 2.0 | broken core |
| 05 SWC 037 | 69.19 | 70.71 | 1.52 | 2.5 | 4.0 | 0.26 | 17.11 | 3.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 34.00 | 2.0 | broken core |
| 05 SWC 037 | 70.71 | 72.24 | 1.53 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken core |

| | | | | | | RQD | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | Length (m) | % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
| 05 SWC 037 | 72.24 | 73.76 | 1.52 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken core |
| 05 SWC 037 | 73.76 | 75.29 | 1.53 | 2.5 | 4.0 | 0.27 | 17.65 | 3.0 | 9999 | 6535 | 0 | 5.0 | 12 | 10 | 34.00 | 2.0 | broken core |
| 05 SWC 037 | 75.29 | 76.81 | 1.52 | 2.5 | 4.0 | 0.28 | 18.42 | 3.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 34.00 | 2.0 | broken core; starting to see some malachite |
| 05 SWC 037 | 76.81 | 78.33 | 1.52 | 3.0 | 4.0 | 0.98 | 64.47 | 13.0 | 11 | 7 | 138 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 037 | 78.33 | 79.86 | 1.53 | 3.0 | 4.0 | 0.93 | 60.78 | 13.0 | 12 | 8 | 128 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 037 | 79.86 | 81.38 | 1.52 | 3.0 | 4.0 | 1.35 | 88.82 | 17.0 | 8 | 5 | 190 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 037 | 81.38 | 82.91 | 1.53 | 3.0 | 4.0 | 1.20 | 78.43 | 17.0 | 6 | 4 | 255 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 037 | 82.91 | 84.43 | 1.52 | 3.0 | 4.0 | 1.19 | 78.29 | 17.0 | 10 | 7 | 152 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 037 | 84.43 | 85.95 | 1.52 | 3.0 | 4.0 | 0.52 | 34.21 | 8.0 | 14 | 9 | 109 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 037 | 85.95 | 87.48 | 1.53 | 3.0 | 4.0 | 0.74 | 48.37 | 8.0 | 11 | 7 | 139 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 037 | 87.48 | 89.00 | 1.52 | 3.0 | 4.0 | 0.83 | 54.61 | 13.0 | 10 | 7 | 152 | 8.0 | 18 | 10 | 53.00 | 3.0 | specks of malachite on joint surfaces |
| 05 SWC 037 | 89.00 | 90.53 | 1.53 | 3.0 | 4.0 | 0.71 | 46.41 | 8.0 | 10 | 7 | 153 | 8.0 | 18 | 10 | 48.00 | 3.0 | malachite on joint surfaces |
| 05 SWC 037 | 90.53 | 92.05 | 1.52 | 3.0 | 4.0 | 0.72 | 47.37 | 8.0 | 11 | 7 | 138 | 8.0 | 18 | 10 | 48.00 | 3.0 | visible malachite, chalcopyrite and bands of magnetite |
| 05 SWC 037 | 92.05 | 92.96 | 0.91 | 3.0 | 4.0 | 0.67 | 73.63 | 13.0 | 6 | 7 | 152 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 037 | 92.96 | 94.49 | 1.53 | 3.0 | 4.0 | 1.14 | 74.51 | 13.0 | 12 | 8 | 128 | 8.0 | 18 | 10 | 53.00 | 3.0 | visible bands of magnetite |
| 05 SWC 037 | 94.49 | 96.01 | 1.52 | 3.0 | 4.0 | 0.73 | 48.03 | 8.0 | 12 | 8 | 127 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 037 | 96.01 | 98.15 | 2.14 | 3.0 | 4.0 | 0.63 | 29.44 | 8.0 | 20 | 9 | 107 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 037 | 98.15 | 99.67 | 1.52 | 3.0 | 4.0 | 0.44 | 28.95 | 8.0 | 9999 | 6578 | 0 | 5.0 | 18 | 10 | 45.00 | 3.0 | broken core |
| 05 SWC 037 | 99.67 | 101.19 | 1.52 | 3.0 | 4.0 | 0.48 | 31.58 | 8.0 | 9999 | 6578 | 0 | 5.0 | 18 | 10 | 45.00 | 3.0 | broken core, specks of chalcopyrite on joint walls |
| 05 SWC 037 | 101.19 | 102.72 | 1.53 | 3.0 | 4.0 | 0.55 | 35.95 | 8.0 | 17 | 11 | 90 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 037 | 102.72 | 104.24 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 18 | 10 | 37.00 | 2.0 | broken core |
| 05 SWC 037 | 104.24 | 105.77 | 1.53 | 3.0 | 4.0 | 0.41 | 26.80 | 8.0 | 17 | 11 | 90 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 037 | 105.77 | 107.29 | 1.52 | 3.0 | 4.0 | 0.94 | 61.84 | 13.0 | 12 | 8 | 127 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 037 | 107.29 | 108.81 | 1.52 | 3.0 | 4.0 | 1.23 | 80.92 | 17.0 | 6 | 4 | 253 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 037 | 108.81 | 110.34 | 1.53 | 3.0 | 4.0 | 0.43 | 28.10 | 8.0 | 14 | 9 | 109 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 037 | 110.34 | 111.86 | 1.52 | 3.0 | 4.0 | 0.95 | 62.50 | 13.0 | 14 | 9 | 109 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 037 | 111.86 | 113.39 | 1.53 | 3.0 | 4.0 | 0.96 | 62.75 | 13.0 | 9 | 6 | 170 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 037 | 113.39 | 114.91 | 1.52 | 3.0 | 4.0 | 0.71 | 46.71 | 8.0 | 9 | 6 | 169 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 037 | 114.91 | 116.43 | 1.52 | 3.0 | 4.0 | 0.89 | 58.55 | 13.0 | 14 | 9 | 109 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 037 | 116.43 | 117.96 | 1.53 | 3.0 | 4.0 | 0.65 | 42.48 | 8.0 | 14 | 9 | 109 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 037 | 117.96 | 119.79 | 1.83 | 3.0 | 4.0 | 0.97 | 53.01 | 13.0 | 14 | 8 | 131 | 8.0 | 18 | 10 | 53.00 | 3.0 | visible epidote on joint surfaces |
| 05 SWC 037 | 119.79 | 122.83 | 3.04 | 3.0 | 4.0 | 2.00 | 65.79 | 13.0 | 17 | 6 | 179 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 037 | 122.83 | 125.27 | 2.44 | 3.0 | 4.0 | 1.66 | 68.03 | 13.0 | 15 | 6 | 163 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 037 | 125.27 | 127.41 | 2.14 | 3.0 | 4.0 | 1.70 | 79.44 | 17.0 | 24 | 11 | 89 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 037 | 127.41 | 130.15 | 2.74 | 3.0 | 4.0 | 1.08 | 39.42 | 8.0 | 24 | 9 | 114 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 037 | 130.15 | 133.20 | 3.05 | 3.0 | 4.0 | 2.01 | 65.90 | 13.0 | 25 | 8 | 122 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 037 | 133.20 | 136.25 | 3.05 | 3.0 | 4.0 | 1.22 | 40.00 | 8.0 | 29 | 10 | 105 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 037 | 136.25 | 138.07 | 1.82 | 3.0 | 4.0 | 0.85 | 46.70 | 8.0 | 19 | 10 | 96 | 8.0 | 18 | 10 | 48.00 | 3.0 | specks of chalcopyrite on joint surfaces |
| 05 SWC 037 | 138.07 | 139.29 | 1.22 | 3.0 | 4.0 | 0.22 | 18.03 | 3.0 | 9999 | 8196 | 0 | 5.0 | 18 | 10 | 40.00 | 2.0 | broken core |
| 05 SWC 037 | 139.29 | 142.34 | 3.05 | 3.0 | 4.0 | 1.72 | 56.39 | 13.0 | 20 | 7 | 153 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 037 | 142.34 | 145.39 | 3.05 | 3.0 | 4.0 | 1.37 | 44.92 | 8.0 | 28 | 9 | 109 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 037 | 145.39 | 148.44 | 3.05 | 3.0 | 4.0 | 0.76 | 24.92 | 3.0 | 22 | 7 | 139 | 8.0 | 18 | 10 | 43.00 | 3.0 | |
| 05 SWC 037 | 148.44 | 151.49 | 3.05 | 3.0 | 4.0 | 1.52 | 49.84 | 8.0 | 21 | 7 | 145 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 037 | 151.49 | 154.53 | 3.04 | 3.0 | 4.0 | 2.05 | 67.43 | 13.0 | 15 | 5 | 203 | 10.0 | 18 | 10 | 55.00 | 3.0 | |
| 05 SWC 037 | 154.53 | 155.75 | 1.22 | 3.0 | 4.0 | 1.06 | 86.89 | 17.0 | 8 | 7 | 153 | 8.0 | 18 | 10 | 57.00 | 3.0 | E.O.H. |
| 05 SWC 038 | 0 | 17.07 | 17.07 | | 0.0 | | | 0.0 | 9999 | 586 | 2 | 5.0 | | 10 | 15.00 | 1.0 | overburden- no measurments recorded |
| 05 SWC 038 | 17.07 | 20.73 | 3.66 | 1.0 | 1.0 | 0.13 | 3.55 | 3.0 | 9999 | 2732 | 0 | 5.0 | 0 | 10 | 19.00 | 1.0 | crushed up rock and sand |
| 05 SWC 038 | 20.73 | 21.64 | 0.91 | 1.0 | 1.0 | 0.14 | 15.38 | 3.0 | 9999 | 10988 | 0 | 5.0 | 10 | 10 | 29.00 | 2.0 | broken core |
| 05 SWC 038 | 21.64 | 23.16 | 1.52 | 1.0 | 1.0 | 0.18 | 11.84 | 3.0 | 9999 | 6578 | 0 | 5.0 | 10 | 10 | 29.00 | 2.0 | broken core |
| 05 SWC 038 | 23.16 | 24.69 | 1.53 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 10 | 10 | 29.00 | 2.0 | broken core |
| 05 SWC 038 | 24.69 | 26.21 | 1.52 | 3.0 | 4.0 | 0.11 | 7.24 | 3.0 | 9999 | 6578 | 0 | 5.0 | 10 | 10 | 32.00 | 2.0 | broken core |
| 05 SWC 038 | 26.21 | 27.74 | 1.53 | 3.0 | 4.0 | 0.50 | 32.68 | 8.0 | 9999 | 6535 | 0 | 5.0 | 10 | 10 | 37.00 | 2.0 | broken core |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 SWC 038 | 27.74 | 29.26 | 1.52 | 3.0 | 4.0 | 0.26 | 17.11 | 3.0 | 9999 | 6578 | 0 | 5.0 | 10 | 10 | 32.00 | 2.0 | broken core |
| 05 SWC 038 | 29.26 | 30.78 | 1.52 | 3.0 | 4.0 | 0.83 | 54.61 | 13.0 | 9 | 6 | 169 | 8.0 | 12 | 10 | 47.00 | 3.0 | |
| 05 SWC 038 | 30.78 | 32.31 | 1.53 | 3.0 | 4.0 | 0.28 | 18.30 | 3.0 | 8 | 5 | 191 | 8.0 | 12 | 10 | 37.00 | 2.0 | |
| 05 SWC 038 | 32.31 | 33.83 | 1.52 | 3.0 | 4.0 | 0.43 | 28.29 | 8.0 | 11 | 7 | 138 | 8.0 | 12 | 10 | 42.00 | 3.0 | |
| 05 SWC 038 | 33.83 | 35.36 | 1.53 | 3.0 | 4.0 | 0.86 | 56.21 | 13.0 | 14 | 9 | 109 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 038 | 35.36 | 36.88 | 1.52 | 3.0 | 4.0 | 0.88 | 57.89 | 13.0 | 15 | 10 | 101 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 038 | 36.88 | 38.40 | 1.52 | 3.0 | 4.0 | 1.07 | 70.39 | 13.0 | 9 | 6 | 169 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 038 | 38.40 | 39.93 | 1.53 | 3.0 | 4.0 | 1.09 | 71.24 | 13.0 | 8 | 5 | 191 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 038 | 39.93 | 41.45 | 1.52 | 3.0 | 4.0 | 0.98 | 64.47 | 13.0 | 6 | 4 | 253 | 10.0 | 16 | 10 | 53.00 | 3.0 | |
| 05 SWC 038 | 41.45 | 42.98 | 1.53 | 3.0 | 4.0 | 0.70 | 45.75 | 8.0 | 10 | 7 | 153 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 038 | 42.98 | 44.50 | 1.52 | 3.0 | 4.0 | 0.99 | 65.13 | 13.0 | 8 | 5 | 190 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 038 | 44.50 | 46.02 | 1.52 | 3.0 | 4.0 | 0.76 | 50.00 | 8.0 | 9 | 6 | 169 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 038 | 46.02 | 47.55 | 1.53 | 3.0 | 4.0 | 0.11 | 7.19 | 3.0 | 9999 | 6535 | 0 | 5.0 | 16 | 10 | 38.00 | 2.0 | broken core |
| 05 SWC 038 | 47.55 | 49.07 | 1.52 | 3.0 | 4.0 | 0.79 | 51.97 | 13.0 | 8 | 5 | 190 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 038 | 49.07 | 50.60 | 1.53 | 3.0 | 4.0 | 0.79 | 51.63 | 13.0 | 5 | 3 | 306 | 10.0 | 16 | 10 | 53.00 | 3.0 | |
| 05 SWC 038 | 50.60 | 52.12 | 1.52 | 3.0 | 4.0 | 0.12 | 7.89 | 3.0 | 9999 | 6578 | 0 | 5.0 | 16 | 10 | 38.00 | 2.0 | visible malachite on joint surfaces |
| 05 SWC 038 | 52.12 | 53.64 | 1.52 | 3.0 | 4.0 | 0.36 | 23.68 | 3.0 | 9 | 6 | 169 | 8.0 | 16 | 10 | 41.00 | 3.0 | visible malachite on joint surfaces |
| 05 SWC 038 | 53.64 | 55.17 | 1.53 | 3.0 | 4.0 | 0.50 | 32.68 | 8.0 | 9999 | 6535 | 0 | 5.0 | 16 | 10 | 43.00 | 3.0 | broken core |
| 05 SWC 038 | 55.17 | 56.69 | 1.52 | 3.0 | 4.0 | 0.28 | 18.42 | 3.0 | 9999 | 6578 | 0 | 5.0 | 16 | 10 | 38.00 | 2.0 | broken core |
| 05 SWC 038 | 56.69 | 58.22 | 1.53 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | broken core, specks of malachite |
| 05 SWC 038 | 58.22 | 59.74 | 1.52 | 3.0 | 4.0 | 0.34 | 22.37 | 3.0 | 15 | 10 | 101 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 038 | 59.74 | 61.26 | 1.52 | 3.0 | 4.0 | 0.24 | 15.79 | 3.0 | 9999 | 6578 | 0 | 5.0 | 16 | 10 | 38.00 | 2.0 | broken core |
| 05 SWC 038 | 61.26 | 62.79 | 1.53 | 3.0 | 4.0 | 0.30 | 19.61 | 3.0 | 9999 | 6535 | 0 | 5.0 | 16 | 10 | 38.00 | 2.0 | broken core |
| 05 SWC 038 | 62.79 | 64.31 | 1.52 | 3.0 | 4.0 | 0.43 | 28.29 | 8.0 | 7 | 5 | 217 | 10.0 | 14 | 10 | 46.00 | 3.0 | |
| 05 SWC 038 | 64.31 | 65.84 | 1.53 | 3.0 | 4.0 | 0.71 | 46.41 | 8.0 | 7 | 5 | 219 | 10.0 | 16 | 10 | 48.00 | 3.0 | |
| 05 SWC 038 | 65.84 | 67.36 | 1.52 | 3.0 | 4.0 | 1.22 | 80.26 | 17.0 | 8 | 5 | 190 | 8.0 | 16 | 10 | 55.00 | 3.0 | |
| 05 SWC 038 | 67.36 | 68.88 | 1.52 | 3.0 | 4.0 | 1.27 | 83.55 | 17.0 | 8 | 5 | 190 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 038 | 68.88 | 70.41 | 1.53 | 3.0 | 4.0 | 1.13 | 73.86 | 13.0 | 8 | 5 | 191 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 038 | 70.41 | 71.93 | 1.52 | 3.0 | 4.0 | 1.34 | 88.16 | 17.0 | 4 | 3 | 380 | 10.0 | 20 | 10 | 61.00 | 4.0 | visible epidote ? |
| 05 SWC 038 | 71.93 | 73.46 | 1.53 | 3.0 | 4.0 | 1.13 | 73.86 | 13.0 | 7 | 5 | 219 | 10.0 | 20 | 10 | 57.00 | 3.0 | specksof malachite on joint surfaces |
| 05 SWC 038 | 73.46 | 74.98 | 1.52 | 3.0 | 4.0 | 0.80 | 52.63 | 13.0 | 9 | 6 | 169 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 038 | 74.98 | 76.50 | 1.52 | 3.0 | 4.0 | 0.93 | 61.18 | 13.0 | 9 | 6 | 169 | 8.0 | 20 | 10 | 55.00 | 3.0 | epidote on joint walls |
| 05 SWC 038 | 76.50 | 78.03 | 1.53 | 3.0 | 4.0 | 1.02 | 66.67 | 13.0 | 10 | 7 | 153 | 8.0 | 20 | 10 | 55.00 | 3.0 | epidote on joint walls |
| 05 SWC 038 | 78.03 | 79.25 | 1.22 | 3.0 | 4.0 | 0.68 | 55.74 | 13.0 | 10 | 8 | 122 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 038 | 79.25 | 80.77 | 1.52 | 3.0 | 4.0 | 0.92 | 60.53 | 13.0 | 9 | 6 | 169 | 8.0 | 20 | 10 | 55.00 | 3.0 | starting to see malachite |
| 05 SWC 038 | 80.77 | 82.30 | 1.53 | 3.0 | 4.0 | 0.67 | 43.79 | 8.0 | 13 | 8 | 118 | 8.0 | 20 | 10 | 50.00 | 3.0 | visible malachite and chalcopyrite, visible bands of magne |
| 05 SWC 038 | 82.30 | 83.82 | 1.52 | 3.0 | 4.0 | 0.83 | 54.61 | 13.0 | 10 | 7 | 152 | 8.0 | 20 | 10 | 55.00 | 3.0 | visible malachite,bornite, chalcopyrite, magnetite |
| 05 SWC 038 | 83.82 | 85.34 | 1.52 | 3.0 | 4.0 | 0.95 | 62.50 | 13.0 | 9 | 6 | 169 | 8.0 | 20 | 10 | 55.00 | 3.0 | magnetite on joint walls |
| 05 SWC 038 | 85.34 | 86.87 | 1.53 | 3.0 | 4.0 | 0.78 | 50.98 | 13.0 | 11 | 7 | 139 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 038 | 86.87 | 88.39 | 1.52 | 3.0 | 4.0 | 0.81 | 53.29 | 13.0 | 11 | 7 | 138 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 038 | 88.39 | 89.92 | 1.53 | 3.0 | 4.0 | 0.61 | 39.87 | 8.0 | 12 | 8 | 128 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05 SWC 038 | 89.92 | 91.44 | 1.52 | 3.0 | 4.0 | 1.17 | 76.97 | 17.0 | 5 | 3 | 304 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 038 | 91.44 | 92.96 | 1.52 | 3.0 | 4.0 | 0.87 | 57.24 | 13.0 | 10 | 7 | 152 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 038 | 92.96 | 94.49 | 1.53 | 3.0 | 4.0 | 1.18 | 77.12 | 17.0 | 8 | 5 | 191 | 8.0 | 18 | 10 | 57.00 | 3.0 | lots of biotite on joint walls |
| 05 SWC 038 | 94.49 | 96.01 | 1.52 | 3.0 | 4.0 | 0.69 | 45.39 | 8.0 | 7 | 5 | 217 | 10.0 | 18 | 10 | 50.00 | 3.0 | |
| 05 SWC 038 | 96.01 | 97.54 | 1.53 | 2.5 | 4.0 | 0.47 | 30.72 | 8.0 | 9999 | 6535 | 0 | 5.0 | 12 | 10 | 39.00 | 2.0 | broken core; fault zone |
| 05 SWC 038 | 97.54 | 98.45 | 0.91 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 12 | 10 | 29.00 | 2.0 | broken core; fault zone |
| 05 SWC 038 | 98.45 | 99.36 | 0.91 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 12 | 10 | 29.00 | 2.0 | broken core; fault zone |
| 05 SWC 038 | 99.36 | 100.89 | 1.53 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken core |
| 05 SWC 038 | 100.89 | 102.41 | 1.52 | 3.0 | 4.0 | 0.12 | 7.89 | 3.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 34.00 | 2.0 | broken core |
| 05 SWC 038 | 102.41 | 103.94 | 1.53 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 038 | 103.94 | 105.46 | 1.52 | 3.0 | 4.0 | 0.63 | 41.45 | 8.0 | 7 | 5 | 217 | 10.0 | 14 | 10 | 46.00 | 3.0 | |
| 05 SWC 038 | 105.46 | 106.98 | 1.52 | 3.0 | 4.0 | 1.02 | 67.11 | 13.0 | 12 | 8 | 127 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 038 | 106.98 | 108.51 | 1.53 | 3.0 | 4.0 | 0.93 | 60.78 | 13.0 | 9 | 6 | 170 | 8.0 | 18 | 10 | 53.00 | 3.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 SWC 038 | 108.51 | 110.03 | 1.52 | 3.0 | 4.0 | 1.00 | 65.79 | 13.0 | 8 | 5 | 190 | 8.0 | 18 | 10 | 53.00 | 3.0 | magnetite on joint walls |
| 05 SWC 038 | 110.03 | 111.56 | 1.53 | 3.0 | 4.0 | 0.51 | 33.33 | 8.0 | 2 | 1 | 765 | 16.0 | 18 | 10 | 56.00 | 3.0 | part of the run is very broken up |
| 05 SWC 038 | 111.56 | 113.08 | 1.52 | 3.0 | 4.0 | 0.36 | 23.68 | 3.0 | 13 | 9 | 117 | 8.0 | 18 | 10 | 43.00 | 3.0 | part of the run is very broken up |
| 05 SWC 038 | 113.08 | 114.91 | 1.83 | 3.0 | 4.0 | 0.68 | 37.16 | 8.0 | 9 | 5 | 203 | 10.0 | 18 | 10 | 50.00 | 3.0 | |
| 05 SWC 038 | 114.91 | 116.13 | 1.22 | 3.0 | 4.0 | 0.24 | 19.67 | 3.0 | 9 | 7 | 136 | 8.0 | 18 | 10 | 43.00 | 3.0 | |
| 05 SWC 038 | 116.13 | 117.65 | 1.52 | 3.0 | 4.0 | 1.34 | 88.16 | 17.0 | 7 | 5 | 217 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 038 | 117.65 | 119.18 | 1.53 | 3.0 | 4.0 | 0.68 | 44.44 | 8.0 | 11 | 7 | 139 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 038 | 119.18 | 120.70 | 1.52 | 3.0 | 4.0 | 0.35 | 23.03 | 3.0 | 10 | 7 | 152 | 8.0 | 18 | 10 | 43.00 | 3.0 | broken up |
| 05 SWC 038 | 120.70 | 122.22 | 1.52 | 3.5 | 7.0 | 0.73 | 48.03 | 8.0 | 14 | 9 | 109 | 8.0 | 20 | 10 | 53.00 | 3.0 | |
| 05 SWC 038 | 122.22 | 123.75 | 1.53 | 3.5 | 7.0 | 0.90 | 58.82 | 13.0 | 9 | 6 | 170 | 8.0 | 20 | 10 | 58.00 | 3.0 | |
| 05 SWC 038 | 123.75 | 125.27 | 1.52 | 3.5 | 7.0 | 1.42 | 93.42 | 20.0 | 3 | 2 | 507 | 10.0 | 20 | 10 | 67.00 | 4.0 | |
| 05 SWC 038 | 125.27 | 126.80 | 1.53 | 3.5 | 7.0 | 0.29 | 18.95 | 3.0 | 13 | 8 | 118 | 8.0 | 20 | 10 | 48.00 | 3.0 | |
| 05 SWC 038 | 126.80 | 128.32 | 1.52 | 3.5 | 7.0 | 0.93 | 61.18 | 13.0 | 8 | 5 | 190 | 8.0 | 20 | 10 | 58.00 | 3.0 | |
| 05 SWC 038 | 128.32 | 129.84 | 1.52 | 3.5 | 7.0 | 0.85 | 55.92 | 13.0 | 10 | 7 | 152 | 8.0 | 20 | 10 | 58.00 | 3.0 | |
| 05 SWC 038 | 129.84 | 130.76 | 0.92 | 3.5 | 7.0 | 0.00 | 0.00 | 0.0 | 5 | 5 | 184 | 8.0 | 20 | 10 | 45.00 | 3.0 | |
| 05 SWC 038 | 130.76 | 132.28 | 1.52 | 3.0 | 4.0 | 1.12 | 73.68 | 13.0 | 9 | 6 | 169 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 038 | 132.28 | 133.81 | 1.53 | 3.0 | 4.0 | 1.18 | 77.12 | 17.0 | 7 | 5 | 219 | 10.0 | 20 | 10 | 61.00 | 4.0 | |
| 05 SWC 038 | 133.81 | 135.33 | 1.52 | 3.0 | 4.0 | 0.47 | 30.92 | 8.0 | 16 | 11 | 95 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05 SWC 038 | 135.33 | 136.55 | 1.22 | 3.0 | 4.0 | 0.13 | 10.66 | 3.0 | 9999 | 8196 | 0 | 5.0 | 20 | 10 | 42.00 | 3.0 | broken core |
| 05 SWC 038 | 136.55 | 137.46 | 0.91 | 3.0 | 4.0 | 0.17 | 18.68 | 3.0 | 8 | 9 | 114 | 8.0 | 18 | 10 | 43.00 | 3.0 | |
| 05 SWC 038 | 137.46 | 138.99 | 1.53 | 3.0 | 4.0 | 0.99 | 64.71 | 13.0 | 6 | 4 | 255 | 10.0 | 18 | 10 | 55.00 | 3.0 | possible epidote on joint walls |
| 05 SWC 038 | 138.99 | 140.51 | 1.52 | 3.0 | 4.0 | 1.07 | 70.39 | 13.0 | 7 | 5 | 217 | 10.0 | 20 | 10 | 57.00 | 3.0 | |
| 05 SWC 038 | 140.51 | 142.04 | 1.53 | 3.0 | 4.0 | 0.50 | 32.68 | 8.0 | 14 | 9 | 109 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05 SWC 038 | 142.04 | 143.56 | 1.52 | 3.0 | 4.0 | 0.94 | 61.84 | 13.0 | 9 | 6 | 169 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 038 | 143.56 | 145.08 | 1.52 | 3.0 | 4.0 | 1.08 | 71.05 | 13.0 | 9 | 6 | 169 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 038 | 145.08 | 146.61 | 1.53 | 3.0 | 4.0 | 1.25 | 81.70 | 17.0 | 7 | 5 | 219 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 038 | 146.61 | 148.13 | 1.52 | 3.0 | 4.0 | 0.83 | 54.61 | 13.0 | 6 | 4 | 253 | 10.0 | 18 | 10 | 55.00 | 3.0 | |
| 05 SWC 038 | 148.13 | 149.66 | 1.53 | 3.0 | 4.0 | 0.92 | 60.13 | 13.0 | 10 | 7 | 153 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 038 | 149.66 | 151.18 | 1.52 | 3.0 | 4.0 | 0.78 | 51.32 | 13.0 | 11 | 7 | 138 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 038 | 151.18 | 152.70 | 1.52 | 3.0 | 4.0 | 0.35 | 23.03 | 3.0 | 9999 | 6578 | 0 | 5.0 | 18 | 10 | 40.00 | 2.0 | broken core |
| 05 SWC 038 | 152.70 | 154.23 | 1.53 | 3.0 | 4.0 | 0.28 | 18.30 | 3.0 | 9999 | 6535 | 0 | 5.0 | 18 | 10 | 40.00 | 2.0 | broken core |
| 05 SWC 038 | 154.23 | 155.75 | 1.52 | 3.0 | 4.0 | 0.89 | 58.55 | 13.0 | 4 | 3 | 380 | 10.0 | 18 | 10 | 55.00 | 3.0 | |
| 05 SWC 038 | 155.75 | 157.28 | 1.53 | 3.0 | 4.0 | 0.19 | 12.42 | 3.0 | 9999 | 6535 | 0 | 5.0 | 18 | 10 | 40.00 | 2.0 | broken core |
| 05 SWC 038 | 157.28 | 158.80 | 1.52 | 3.0 | 4.0 | 1.02 | 67.11 | 13.0 | 4 | 3 | 380 | 10.0 | 18 | 10 | 55.00 | 3.0 | |
| 05 SWC 038 | 158.80 | 160.32 | 1.52 | 3.0 | 4.0 | 0.91 | 59.87 | 13.0 | 9 | 6 | 169 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 038 | 160.32 | 161.85 | 1.53 | 3.0 | 4.0 | 1.27 | 83.01 | 17.0 | 3 | 2 | 510 | 10.0 | 18 | 10 | 59.00 | 3.0 | E.O.H. |
| 05 SWC 036 | 0 | 29.57 | 29.57 | | 0.0 | | | 0.0 | 9999 | 338 | 3 | 5.0 | | 10 | 15.00 | 1.0 | overburden- no measurments recorded |
| 05 SWC 036 | 29.57 | 30.48 | 0.91 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 036 | 30.48 | 31.09 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core, visible malachite |
| 05 SWC 036 | 31.09 | 32.00 | 0.91 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 036 | 32.00 | 32.61 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 036 | 32.61 | 33.53 | 0.92 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10868 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 036 | 33.53 | 35.36 | 1.83 | 3.0 | 4.0 | 0.12 | 6.56 | 3.0 | 23 | 13 | 80 | 8.0 | 14 | 10 | 39.00 | 2.0 | broken core, visible malachite on joint surfaces |
| 05 SWC 036 | 35.36 | 36.88 | 1.52 | 3.0 | 4.0 | 0.45 | 29.61 | 8.0 | 20 | 13 | 76 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 036 | 36.88 | 37.49 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 036 | 37.49 | 38.71 | 1.22 | 3.0 | 4.0 | 0.11 | 9.02 | 3.0 | 9999 | 8196 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core, visible malachite |
| 05 SWC 036 | 38.71 | 39.01 | 0.30 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 33330 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | bits of crushed up rock with specks of malachite |
| 05 SWC 036 | 39.01 | 39.32 | 0.31 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 32255 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | bits of crushed up rock with specks of malachite |
| 05 SWC 036 | 39.32 | 40.23 | 0.91 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | bits of crushed up rock with specks of malachite |
| 05 SWC 036 | 40.23 | 40.84 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 036 | 40.84 | 42.06 | 1.22 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 8196 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 036 | 42.06 | 43.28 | 1.22 | 3.0 | 4.0 | 0.13 | 10.66 | 3.0 | 15 | 12 | 81 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05 SWC 036 | 43.28 | 43.89 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 036 | 43.89 | 44.50 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core, visible malachite |
| 05 SWC 036 | 44.50 | 45.42 | 0.92 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10868 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 036 | 45.42 | 46.33 | 0.91 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core, visible malachite and azurite |
| 05 SWC 036 | 46.33 | 47.85 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 SWC 036 | 47.85 | 48.77 | 0.92 | 2.5 | 4.0 | 0.26 | 28.26 | 8.0 | 9999 | 10868 | 0 | 5.0 | 14 | 10 | 41.00 | 3.0 | broken core |
| 05 SWC 036 | 48.77 | 49.22 | 0.45 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 22220 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 036 | 49.22 | 49.38 | 0.16 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 62494 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 036 | 49.38 | 50.90 | 1.52 | 3.0 | 4.0 | 0.13 | 8.55 | 3.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core, visible malachite and azurite |
| 05 SWC 036 | 50.90 | 51.82 | 0.92 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10868 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 036 | 51.82 | 52.12 | 0.30 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 33330 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 036 | 52.12 | 53.19 | 1.07 | 3.0 | 4.0 | 0.12 | 11.21 | 3.0 | 9999 | 9345 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core |
| 05 SWC 036 | 53.19 | 53.64 | 0.45 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 22220 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 036 | 53.64 | 53.95 | 0.31 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 32255 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 036 | 53.95 | 54.86 | 0.91 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken core |
| 05 SWC 036 | 54.86 | 55.47 | 0.61 | 3.0 | 4.0 | 0.11 | 18.03 | 3.0 | 9999 | 16392 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken core |
| 05 SWC 036 | 55.47 | 56.69 | 1.22 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 8196 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | broken core |
| 05 SWC 036 | 56.69 | 57.30 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | broken core |
| 05 SWC 036 | 57.30 | 57.61 | 0.31 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 32255 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | broken core |
| 05 SWC 036 | 57.61 | 57.91 | 0.30 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 33330 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | broken core |
| 05 SWC 036 | 57.91 | 59.44 | 1.53 | 3.0 | 4.0 | 0.22 | 14.38 | 3.0 | 9999 | 6535 | 0 | 5.0 | 16 | 10 | 38.00 | 2.0 | broken core, specks of malachite |
| 05 SWC 036 | 59.44 | 60.35 | 0.91 | 3.0 | 4.0 | 0.16 | 17.58 | 3.0 | 9999 | 10988 | 0 | 5.0 | 16 | 10 | 38.00 | 2.0 | broken core |
| 05 SWC 036 | 60.35 | 61.57 | 1.22 | 3.0 | 4.0 | 0.75 | 61.48 | 13.0 | 8 | 7 | 153 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 036 | 61.57 | 62.48 | 0.91 | 3.0 | 4.0 | 0.31 | 34.07 | 8.0 | 7 | 8 | 130 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 036 | 62.48 | 63.40 | 0.92 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10868 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | broken core |
| 05 SWC 036 | 63.40 | 64.62 | 1.22 | 3.0 | 4.0 | 0.26 | 21.31 | 3.0 | 9999 | 8196 | 0 | 5.0 | 16 | 10 | 38.00 | 2.0 | broken core, visible malachite |
| 05 SWC 036 | 64.62 | 65.53 | 0.91 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | broken core |
| 05 SWC 036 | 65.53 | 67.06 | 1.53 | 2.5 | 4.0 | 0.78 | 50.98 | 13.0 | 8 | 5 | 191 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 036 | 67.06 | 67.67 | 0.61 | 2.5 | 4.0 | 0.27 | 44.26 | 8.0 | 5 | 8 | 122 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 036 | 67.67 | 69.19 | 1.52 | 2.5 | 4.0 | 0.42 | 27.63 | 8.0 | 17 | 11 | 89 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 036 | 69.19 | 70.71 | 1.52 | 3.0 | 4.0 | 0.82 | 53.95 | 13.0 | 14 | 9 | 109 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 036 | 70.71 | 72.24 | 1.53 | 3.0 | 4.0 | 0.69 | 45.10 | 8.0 | 11 | 7 | 139 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 036 | 72.24 | 73.76 | 1.52 | 3.0 | 4.0 | 0.25 | 16.45 | 3.0 | 13 | 9 | 117 | 8.0 | 18 | 10 | 43.00 | 3.0 | |
| 05 SWC 036 | 73.76 | 75.29 | 1.53 | 3.0 | 4.0 | 0.22 | 14.38 | 3.0 | 18 | 12 | 85 | 8.0 | 18 | 10 | 43.00 | 3.0 | |
| 05 SWC 036 | 75.29 | 76.81 | 1.52 | 3.0 | 4.0 | 0.65 | 42.76 | 8.0 | 10 | 7 | 152 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 036 | 76.81 | 78.33 | 1.52 | 3.0 | 4.0 | 1.15 | 75.66 | 17.0 | 8 | 5 | 190 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 036 | 78.33 | 79.86 | 1.53 | 3.0 | 4.0 | 1.24 | 81.05 | 17.0 | 9 | 6 | 170 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 036 | 79.86 | 81.38 | 1.52 | 3.0 | 4.0 | 0.88 | 57.89 | 13.0 | 8 | 5 | 190 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 036 | 81.38 | 82.91 | 1.53 | 3.0 | 4.0 | 1.13 | 73.86 | 13.0 | 6 | 4 | 255 | 10.0 | 18 | 10 | 55.00 | 3.0 | |
| 05 SWC 036 | 82.91 | 84.43 | 1.52 | 3.0 | 4.0 | 1.38 | 90.79 | 20.0 | 6 | 4 | 253 | 10.0 | 20 | 10 | 64.00 | 4.0 | |
| 05 SWC 036 | 84.43 | 85.95 | 1.52 | 3.0 | 4.0 | 1.40 | 92.11 | 20.0 | 9 | 6 | 169 | 8.0 | 20 | 10 | 62.00 | 4.0 | |
| 05 SWC 036 | 85.95 | 87.48 | 1.53 | 3.0 | 4.0 | 1.00 | 65.36 | 13.0 | 7 | 5 | 219 | 10.0 | 20 | 10 | 57.00 | 3.0 | |
| 05 SWC 036 | 87.48 | 89.00 | 1.52 | 3.0 | 4.0 | 0.97 | 63.82 | 13.0 | 9 | 6 | 169 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 036 | 89.00 | 89.61 | 0.61 | 3.0 | 4.0 | 0.53 | 86.89 | 17.0 | 3 | 5 | 203 | 10.0 | 20 | 10 | 61.00 | 4.0 | |
| 05 SWC 036 | 89.61 | 90.53 | 0.92 | 3.0 | 4.0 | 0.75 | 81.52 | 17.0 | 2 | 2 | 460 | 10.0 | 20 | 10 | 61.00 | 4.0 | |
| 05 SWC 036 | 90.53 | 91.74 | 1.21 | 3.0 | 4.0 | 1.03 | 85.12 | 17.0 | 7 | 6 | 173 | 8.0 | 20 | 10 | 59.00 | 3.0 | |
| 05 SWC 036 | 91.74 | 92.96 | 1.22 | 3.0 | 4.0 | 0.56 | 45.90 | 8.0 | 5 | 4 | 244 | 10.0 | 20 | 10 | 52.00 | 3.0 | |
| 05 SWC 036 | 92.96 | 94.33 | 1.37 | 3.0 | 4.0 | 0.98 | 71.53 | 13.0 | 8 | 6 | 171 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 036 | 94.33 | 95.86 | 1.53 | 3.0 | 4.0 | 0.63 | 41.18 | 8.0 | 13 | 8 | 118 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05 SWC 036 | 95.86 | 97.08 | 1.22 | 3.0 | 4.0 | 0.35 | 28.69 | 8.0 | 7 | 6 | 174 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05 SWC 036 | 97.08 | 98.15 | 1.07 | 3.0 | 4.0 | 0.86 | 80.37 | 17.0 | 3 | 3 | 357 | 10.0 | 20 | 10 | 61.00 | 4.0 | |
| 05 SWC 036 | 98.15 | 99.36 | 1.21 | 3.0 | 4.0 | 0.31 | 25.62 | 8.0 | 10 | 8 | 121 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05 SWC 036 | 99.36 | 100.89 | 1.53 | 3.0 | 4.0 | 0.80 | 52.29 | 13.0 | 12 | 8 | 128 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 036 | 100.89 | 102.11 | 1.22 | 3.0 | 4.0 | 0.72 | 59.02 | 13.0 | 11 | 9 | 111 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 036 | 102.11 | 103.63 | 1.52 | 3.0 | 4.0 | 0.80 | 52.63 | 13.0 | 11 | 7 | 138 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 036 | 103.63 | 105.16 | 1.53 | 3.0 | 4.0 | 1.11 | 72.55 | 13.0 | 9 | 6 | 170 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 036 | 105.16 | 106.68 | 1.52 | 3.0 | 4.0 | 0.97 | 63.82 | 13.0 | 13 | 9 | 117 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 036 | 106.68 | 107.90 | 1.22 | 3.0 | 4.0 | 0.58 | 47.54 | 8.0 | 9 | 7 | 136 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05 SWC 036 | 107.90 | 109.27 | 1.37 | 3.0 | 4.0 | 0.69 | 50.36 | 13.0 | 10 | 7 | 137 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 036 | 109.27 | 110.34 | 1.07 | 3.0 | 4.0 | 0.55 | 51.40 | 13.0 | 6 | 6 | 178 | 8.0 | 20 | 10 | 55.00 | 3.0 | E.O.H. |
| 05 SWC 034 | 0 | 55.42 | 55.42 | | 0.0 | | | 0.0 | 9999 | 180 | 6 | 5.0 | | 10 | 15.00 | 1.0 | overburden- no measurments recorded |
| 05 SWC 034 | 55.42 | 55.47 | 0.05 | 5.0 | 12.0 | 0.00 | 0.00 | 0.0 | 9999 | 199980 | 0 | 5.0 | 0 | 10 | 27.00 | 2.0 | bits of rock with sand and clay |

| | | | | | | RQD | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | Length (m) | % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
| 05 SWC 034 | 55.47 | 56.08 | 0.61 | 3.0 | 4.0 | 0.35 | 57.38 | 13.0 | 2 | 3 | 305 | 10.0 | 14 | 10 | 51.00 | 3.0 | |
| 05 SWC 034 | 56.08 | 57.30 | 1.22 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 8196 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken up interval |
| 05 SWC 034 | 57.30 | 59.13 | 1.83 | 2.5 | 4.0 | 0.12 | 6.56 | 3.0 | 9999 | 5464 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken up interval |
| 05 SWC 034 | 59.13 | 60.35 | 1.22 | - | 17.0 | 0.00 | 0.00 | 0.0 | 9999 | 8196 | 0 | 5.0 | 0 | 10 | 32.00 | 2.0 | no core recovered in this interval |
| 05 SWC 034 | 60.35 | 61.57 | 1.22 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 8196 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken core |
| 05 SWC 034 | 61.57 | 63.09 | 1.52 | 2.5 | 4.0 | 0.11 | 7.24 | 3.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 34.00 | 2.0 | broken core with specks of malachite |
| 05 SWC 034 | 63.09 | 64.62 | 1.53 | 2.5 | 4.0 | 0.13 | 8.50 | 3.0 | 9999 | 6535 | 0 | 5.0 | 12 | 10 | 34.00 | 2.0 | broken core with specks of malachite |
| 05 SWC 034 | 64.62 | 66.45 | 1.83 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 5464 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken core with specks of malachite |
| 05 SWC 034 | 66.45 | 67.67 | 1.22 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 17 | 14 | 72 | 8.0 | 14 | 10 | 36.00 | 2.0 | broken up interval |
| 05 SWC 034 | 67.67 | 68.88 | 1.21 | 2.5 | 4.0 | 0.39 | 32.23 | 8.0 | 11 | 9 | 110 | 8.0 | 14 | 10 | 44.00 | 3.0 | broken up interval |
| 05 SWC 034 | 68.88 | 69.80 | 0.92 | 2.5 | 4.0 | 0.12 | 13.04 | 3.0 | 14 | 15 | 66 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 034 | 69.80 | 70.71 | 0.91 | 3.0 | 4.0 | 0.11 | 12.09 | 3.0 | 9 | 10 | 101 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 034 | 70.71 | 72.24 | 1.53 | 3.0 | 4.0 | 0.85 | 55.56 | 13.0 | 17 | 11 | 90 | 8.0 | 16 | 10 | 51.00 | 3.0 | specks of chalcopyrite on joint surfaces |
| 05 SWC 034 | 72.24 | 73.15 | 0.91 | 3.0 | 4.0 | 0.41 | 45.05 | 8.0 | 10 | 11 | 91 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 034 | 73.15 | 74.68 | 1.53 | 3.0 | 4.0 | 0.81 | 52.94 | 13.0 | 14 | 9 | 109 | 8.0 | 16 | 10 | 51.00 | 3.0 | specks of chalcopyrite on joint surfaces |
| 05 SWC 034 | 74.68 | 76.20 | 1.52 | 3.0 | 4.0 | 0.93 | 61.18 | 13.0 | 12 | 8 | 127 | 8.0 | 16 | 10 | 51.00 | 3.0 | chalcopyrite on joint surfaces, crs grained biotite |
| 05 SWC 034 | 76.20 | 76.81 | 0.61 | 3.0 | 4.0 | 0.28 | 45.90 | 8.0 | 2 | 3 | 305 | 10.0 | 16 | 10 | 48.00 | 3.0 | |
| 05 SWC 034 | 76.81 | 78.33 | 1.52 | 3.0 | 4.0 | 0.55 | 36.18 | 8.0 | 11 | 7 | 138 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 034 | 78.33 | 79.25 | 0.92 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 11 | 12 | 84 | 8.0 | 16 | 10 | 38.00 | 2.0 | |
| 05 SWC 034 | 79.25 | 80.77 | 1.52 | 3.0 | 4.0 | 0.33 | 21.71 | 3.0 | 19 | 13 | 80 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 034 | 80.77 | 82.14 | 1.37 | 3.0 | 4.0 | 0.48 | 35.04 | 8.0 | 11 | 8 | 125 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 034 | 82.14 | 82.91 | 0.77 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 12986 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | specks of malachite on joint surfaces |
| 05 SWC 034 | 82.91 | 84.12 | 1.21 | 3.0 | 4.0 | 0.26 | 21.49 | 3.0 | 10 | 8 | 121 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 034 | 84.12 | 85.34 | 1.22 | 3.0 | 4.0 | 0.93 | 76.23 | 17.0 | 8 | 7 | 153 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 034 | 85.34 | 86.87 | 1.53 | 3.0 | 4.0 | 1.30 | 84.97 | 17.0 | 6 | 4 | 255 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 034 | 86.87 | 88.39 | 1.52 | 3.0 | 4.0 | 0.82 | 53.95 | 13.0 | 6 | 4 | 253 | 10.0 | 18 | 10 | 55.00 | 3.0 | |
| 05 SWC 034 | 88.39 | 89.00 | 0.61 | 3.0 | 4.0 | 0.43 | 70.49 | 13.0 | 1 | 2 | 610 | 16.0 | 18 | 10 | 61.00 | 4.0 | only mechanicl breaks |
| 05 SWC 034 | 89.00 | 90.53 | 1.53 | 3.0 | 4.0 | 0.67 | 43.79 | 8.0 | 9 | 6 | 170 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 034 | 90.53 | 92.05 | 1.52 | 3.0 | 4.0 | 1.26 | 82.89 | 17.0 | 5 | 3 | 304 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 034 | 92.05 | 93.57 | 1.52 | 3.0 | 4.0 | 0.81 | 53.29 | 13.0 | 13 | 9 | 117 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 034 | 93.57 | 95.10 | 1.53 | 3.0 | 4.0 | 1.03 | 67.32 | 13.0 | 9 | 6 | 170 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 034 | 95.10 | 96.62 | 1.52 | 3.0 | 4.0 | 0.87 | 57.24 | 13.0 | 10 | 7 | 152 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 034 | 96.62 | 98.15 | 1.53 | 3.0 | 4.0 | 1.10 | 71.90 | 13.0 | 8 | 5 | 191 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 034 | 98.15 | 99.67 | 1.52 | 3.0 | 4.0 | 1.28 | 84.21 | 17.0 | 4 | 3 | 380 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 034 | 99.67 | 101.19 | 1.52 | 3.0 | 4.0 | 1.38 | 90.79 | 20.0 | 8 | 5 | 190 | 8.0 | 18 | 10 | 60.00 | 3.0 | |
| 05 SWC 034 | 101.19 | 102.72 | 1.53 | 3.0 | 4.0 | 1.21 | 79.08 | 17.0 | 9 | 6 | 170 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 034 | 102.72 | 104.24 | 1.52 | 3.5 | 7.0 | 1.08 | 71.05 | 13.0 | 6 | 4 | 253 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05 SWC 034 | 104.24 | 105.77 | 1.53 | 3.5 | 7.0 | 1.41 | 92.16 | 20.0 | 4 | 3 | 383 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05 SWC 034 | 105.77 | 107.29 | 1.52 | 3.5 | 7.0 | 0.97 | 63.82 | 13.0 | 10 | 7 | 152 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05 SWC 034 | 107.29 | 108.81 | 1.52 | 3.5 | 7.0 | 0.62 | 40.79 | 8.0 | 12 | 8 | 127 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05 SWC 034 | 108.81 | 110.34 | 1.53 | 3.5 | 7.0 | 0.33 | 21.57 | 3.0 | 16 | 10 | 96 | 8.0 | 18 | 10 | 46.00 | 3.0 | |
| 05 SWC 034 | 110.34 | 111.86 | 1.52 | 3.5 | 7.0 | 0.38 | 25.00 | 8.0 | 17 | 11 | 89 | 8.0 | 18 | 10 | 51.00 | 3.0 | broken up interval |
| 05 SWC 034 | 111.86 | 113.39 | 1.53 | 3.0 | 4.0 | 0.89 | 58.17 | 13.0 | 12 | 8 | 128 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 034 | 113.39 | 114.91 | 1.52 | 3.0 | 4.0 | 0.91 | 59.87 | 13.0 | 11 | 7 | 138 | 8.0 | 18 | 10 | 53.00 | 3.0 | visible specks of chalcopyrite |
| 05 SWC 034 | 114.91 | 116.43 | 1.52 | 3.0 | 4.0 | 0.44 | 28.95 | 8.0 | 13 | 9 | 117 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 034 | 116.43 | 117.96 | 1.53 | 3.0 | 4.0 | 0.84 | 54.90 | 13.0 | 13 | 8 | 118 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 034 | 117.96 | 119.48 | 1.52 | 3.0 | 4.0 | 0.44 | 28.95 | 8.0 | 16 | 11 | 95 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 034 | 119.48 | 121.01 | 1.53 | 3.0 | 4.0 | 1.31 | 85.62 | 17.0 | 5 | 3 | 306 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 034 | 121.01 | 122.53 | 1.52 | 3.0 | 4.0 | 0.83 | 54.61 | 13.0 | 13 | 9 | 117 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 034 | 122.53 | 124.05 | 1.52 | 3.0 | 4.0 | 1.02 | 67.11 | 13.0 | 11 | 7 | 138 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 034 | 124.05 | 125.58 | 1.53 | 3.0 | 4.0 | 1.02 | 66.67 | 13.0 | 8 | 5 | 191 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 034 | 125.58 | 127.10 | 1.52 | 3.0 | 4.0 | 0.72 | 47.37 | 8.0 | 11 | 7 | 138 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 034 | 127.10 | 128.63 | 1.53 | 3.0 | 4.0 | 1.16 | 75.82 | 17.0 | 8 | 5 | 191 | 8.0 | 18 | 10 | 57.00 | 3.0 | |

| | | | | | | RQD | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | Length (m) | % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
| 05 SWC 034 | 128.63 | 130.15 | 1.52 | 3.0 | 4.0 | 0.97 | 63.82 | 13.0 | 10 | 7 | 152 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 034 | 130.15 | 131.67 | 1.52 | 3.0 | 4.0 | 0.93 | 61.18 | 13.0 | 9 | 6 | 169 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 034 | 131.67 | 133.20 | 1.53 | 3.0 | 4.0 | 0.61 | 39.87 | 8.0 | 13 | 8 | 118 | 8.0 | 18 | 10 | 48.00 | 3.0 | E.O.H. |
| 05 SWC 032 | 0 | 64.62 | 64.62 | | 0.0 | | | 0.0 | 9999 | 155 | 6 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments recorded |
| 05 SWC 032 | 64.62 | 67.67 | 3.05 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 3278 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | mostly sand mixed with bits of rock |
| 05 SWC 032 | 67.67 | 68.58 | 0.91 | 1.5 | 2.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 12 | 10 | 29.00 | 2.0 | bits of rock with specks of malachite |
| 05 SWC 032 | 68.58 | 70.71 | 2.13 | 3.0 | 4.0 | 0.55 | 25.82 | 8.0 | 18 | 8 | 118 | 8.0 | 12 | 10 | 42.00 | 3.0 | very broken up, visible specks of malachite, lots of biotite |
| 05 SWC 032 | 70.71 | 71.32 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 6 | 10 | 102 | 8.0 | 12 | 10 | 34.00 | 2.0 | lots of biotite (crs grained) |
| 05 SWC 032 | 71.32 | 71.93 | 0.61 | 3.0 | 4.0 | 0.23 | 37.70 | 8.0 | 8 | 13 | 76 | 8.0 | 12 | 10 | 42.00 | 3.0 | |
| 05 SWC 032 | 71.93 | 72.54 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 3 | 5 | 203 | 10.0 | 14 | 10 | 38.00 | 2.0 | specks of chalcopyriteon joint surfaces |
| 05 SWC 032 | 72.54 | 73.76 | 1.22 | 3.0 | 4.0 | 0.11 | 9.02 | 3.0 | 9999 | 8196 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | very broken up |
| 05 SWC 032 | 73.76 | 75.29 | 1.53 | 3.0 | 4.0 | 0.58 | 37.91 | 8.0 | 15 | 10 | 102 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 032 | 75.29 | 76.81 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | bits of rockwith specks of malachite and chalcopyrite |
| 05 SWC 032 | 76.81 | 77.42 | 0.61 | 3.0 | 4.0 | 0.15 | 24.59 | 3.0 | 4 | 7 | 153 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05 SWC 032 | 77.42 | 78.64 | 1.22 | 3.0 | 4.0 | 0.68 | 55.74 | 13.0 | 5 | 4 | 244 | 10.0 | 14 | 10 | 51.00 | 3.0 | |
| 05 SWC 032 | 78.64 | 78.94 | 0.30 | 3.0 | 4.0 | 0.17 | 56.67 | 13.0 | 3 | 10 | 100 | 8.0 | 16 | 10 | 51.00 | 3.0 | very short run |
| 05 SWC 032 | 78.94 | 79.86 | 0.92 | 3.0 | 4.0 | 0.24 | 26.09 | 8.0 | 9 | 10 | 102 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 032 | 79.86 | 81.38 | 1.52 | 3.0 | 4.0 | 0.93 | 61.18 | 13.0 | 13 | 9 | 117 | 8.0 | 16 | 10 | 51.00 | 3.0 | lots of malachite on joint surfaces |
| 05 SWC 032 | 81.38 | 82.91 | 1.53 | 3.0 | 4.0 | 1.36 | 88.89 | 17.0 | 5 | 3 | 306 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 032 | 82.91 | 84.12 | 1.21 | 3.0 | 4.0 | 0.70 | 57.85 | 13.0 | 8 | 7 | 151 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 032 | 84.12 | 85.34 | 1.22 | 3.0 | 4.0 | 0.98 | 80.33 | 17.0 | 5 | 4 | 244 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 032 | 85.34 | 85.95 | 0.61 | 3.0 | 4.0 | 0.49 | 80.33 | 17.0 | 3 | 5 | 203 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 032 | 85.95 | 86.56 | 0.61 | 3.0 | 4.0 | 0.62 | 101.64 | 20.0 | 2 | 3 | 305 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05 SWC 032 | 86.56 | 88.09 | 1.53 | 3.0 | 4.0 | 0.80 | 52.29 | 13.0 | 10 | 7 | 153 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 032 | 88.09 | 89.00 | 0.91 | 3.0 | 4.0 | 0.45 | 49.45 | 8.0 | 6 | 7 | 152 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 032 | 89.00 | 89.92 | 0.92 | 3.0 | 4.0 | 0.73 | 79.35 | 17.0 | 2 | 2 | 460 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 032 | 89.92 | 90.22 | 0.30 | 3.0 | 4.0 | 0.37 | 123.33 | 20.0 | 1 | 3 | 300 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05 SWC 032 | 90.22 | 91.74 | 1.52 | 3.0 | 4.0 | 0.58 | 38.16 | 8.0 | 6 | 4 | 253 | 10.0 | 18 | 10 | 50.00 | 3.0 | |
| 05 SWC 032 | 91.74 | 93.27 | 1.53 | 3.0 | 4.0 | 1.33 | 86.93 | 17.0 | 7 | 5 | 219 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 032 | 93.27 | 94.79 | 1.52 | 3.0 | 4.0 | 1.47 | 96.71 | 20.0 | 6 | 4 | 253 | 10.0 | 18 | 10 | 62.00 | 4.0 | E.O.H. |
| 05 SWC 033 | 0 | 54.86 | 54.86 | | 0.0 | | | 0.0 | 9999 | 182 | 5 | 5.0 | | 10 | 15.00 | 1.0 | overburden- no measurments were recorded |
| 05 SWC 033 | 54.86 | 57.00 | 2.14 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 4672 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | mostly sand and gravel |
| 05 SWC 033 | 57.00 | 58.52 | 1.52 | 4.0 | 7.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 34.00 | 2.0 | bits of rock, visible malachite and azurite |
| 05 SWC 033 | 58.52 | 60.05 | 1.53 | 4.0 | 7.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 12 | 10 | 34.00 | 2.0 | bits of crushed up rock |
| 05 SWC 033 | 60.05 | 61.57 | 1.52 | - | 17.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 0 | 10 | 32.00 | 2.0 | block is in same spot as previous block |
| 05 SWC 033 | 61.57 | 63.09 | 1.52 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 28.00 | 2.0 | bits of crushed up rock |
| 05 SWC 033 | 63.09 | 64.01 | 0.92 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 9999 | 10868 | 0 | 5.0 | 12 | 10 | 29.00 | 2.0 | bits of crushed up rock |
| 05 SWC 033 | 64.01 | 64.62 | 0.61 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | visible malachite |
| 05 SWC 033 | 64.62 | 64.92 | 0.30 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 33330 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | visible malachite and azurite |
| 05 SWC 033 | 64.92 | 65.38 | 0.46 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 21737 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | visible malachite and azurite |
| 05 SWC 033 | 65.38 | 66.14 | 0.76 | 2.0 | 2.0 | 0.13 | 17.11 | 3.0 | 9999 | 13157 | 0 | 5.0 | 12 | 10 | 32.00 | 2.0 | very broken up, visible malachite |
| 05 SWC 033 | 66.14 | 67.67 | 1.53 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken up interval, visible malachite |
| 05 SWC 033 | 67.67 | 69.19 | 1.52 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken up interval, visible malachite |
| 05 SWC 033 | 69.19 | 70.71 | 1.52 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9 | 6 | 169 | 8.0 | 12 | 10 | 34.00 | 2.0 | broken up interval, visible malachite |
| 05 SWC 033 | 70.71 | 72.24 | 1.53 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken up interval |
| 05 SWC 033 | 72.24 | 73.76 | 1.52 | 2.5 | 4.0 | 0.23 | 15.13 | 3.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken up interval, visible malachite |
| 05 SWC 033 | 73.76 | 75.29 | 1.53 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | broken up interval |
| 05 SWC 033 | 75.29 | 76.81 | 1.52 | 2.5 | 4.0 | 0.24 | 15.79 | 3.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | broken up interval |
| 05 SWC 033 | 76.81 | 78.33 | 1.52 | 2.5 | 4.0 | 0.38 | 25.00 | 8.0 | 4 | 3 | 380 | 10.0 | 14 | 10 | 46.00 | 3.0 | broken up interval |
| 05 SWC 033 | 78.33 | 79.86 | 1.53 | 2.5 | 4.0 | 0.83 | 54.25 | 13.0 | 5 | 3 | 306 | 10.0 | 14 | 10 | 51.00 | 3.0 | |
| 05 SWC 033 | 79.86 | 81.38 | 1.52 | 2.0 | 2.0 | 0.90 | 59.21 | 13.0 | 7 | 5 | 217 | 10.0 | 14 | 10 | 49.00 | 3.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 SWC 033 | 81.38 | 82.91 | 1.53 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 31.00 | 2.0 | very broken up |
| 05 SWC 033 | 82.91 | 84.43 | 1.52 | 2.0 | 2.0 | 0.15 | 9.87 | 3.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 34.00 | 2.0 | very broken up |
| 05 SWC 033 | 84.43 | 85.95 | 1.52 | 2.0 | 2.0 | 0.25 | 16.45 | 3.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 34.00 | 2.0 | broken up |
| 05 SWC 033 | 85.95 | 87.48 | 1.53 | 2.0 | 2.0 | 0.22 | 14.38 | 3.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 34.00 | 2.0 | broken up |
| 05 SWC 033 | 87.48 | 89.00 | 1.52 | 2.0 | 2.0 | 0.45 | 29.61 | 8.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 39.00 | 2.0 | broken up |
| 05 SWC 033 | 89.00 | 90.53 | 1.53 | 2.0 | 2.0 | 0.51 | 33.33 | 8.0 | 6 | 4 | 255 | 10.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 033 | 90.53 | 92.05 | 1.52 | 2.0 | 2.0 | 0.92 | 60.53 | 13.0 | 10 | 7 | 152 | 8.0 | 14 | 10 | 47.00 | 3.0 | |
| 05 SWC 033 | 92.05 | 93.57 | 1.52 | 1.5 | 2.0 | 0.48 | 31.58 | 8.0 | 9 | 6 | 169 | 8.0 | 14 | 10 | 42.00 | 3.0 | broken up |
| 05 SWC 033 | 93.57 | 95.10 | 1.53 | 2.0 | 2.0 | 0.40 | 26.14 | 8.0 | 13 | 8 | 118 | 8.0 | 14 | 10 | 42.00 | 3.0 | broken up |
| 05 SWC 033 | 95.10 | 96.62 | 1.52 | 2.0 | 2.0 | 0.38 | 25.00 | 3.0 | 12 | 8 | 127 | 8.0 | 14 | 10 | 37.00 | 2.0 | |
| 05 SWC 033 | 96.62 | 98.15 | 1.53 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 14 | 10 | 31.00 | 2.0 | very broken up |
| 05 SWC 033 | 98.15 | 99.67 | 1.52 | 3.0 | 4.0 | 1.03 | 67.76 | 13.0 | 11 | 7 | 138 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 033 | 99.67 | 101.19 | 1.52 | 3.0 | 4.0 | 0.77 | 50.66 | 13.0 | 13 | 9 | 117 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 033 | 101.19 | 102.72 | 1.53 | 3.0 | 4.0 | 0.40 | 26.14 | 8.0 | 15 | 10 | 102 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 033 | 102.72 | 104.24 | 1.52 | 3.0 | 4.0 | 0.27 | 17.76 | 3.0 | 7 | 5 | 217 | 10.0 | 16 | 10 | 43.00 | 3.0 | very broken up |
| 05 SWC 033 | 104.24 | 105.77 | 1.53 | 3.0 | 4.0 | 0.11 | 7.19 | 3.0 | 9999 | 6535 | 0 | 5.0 | 16 | 10 | 38.00 | 2.0 | very broken up |
| 05 SWC 033 | 105.77 | 107.29 | 1.52 | 2.0 | 2.0 | 1.29 | 84.87 | 17.0 | 11 | 7 | 138 | 8.0 | 16 | 10 | 53.00 | 3.0 | |
| 05 SWC 033 | 107.29 | 108.81 | 1.52 | 2.0 | 2.0 | 1.13 | 74.34 | 13.0 | 7 | 5 | 217 | 10.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 033 | 108.81 | 110.34 | 1.53 | 3.0 | 4.0 | 0.31 | 20.26 | 3.0 | 11 | 7 | 139 | 8.0 | 14 | 10 | 39.00 | 2.0 | very broken up |
| 05 SWC 033 | 110.34 | 111.86 | 1.52 | 3.0 | 4.0 | 0.55 | 36.18 | 8.0 | 4 | 3 | 380 | 10.0 | 16 | 10 | 48.00 | 3.0 | |
| 05 SWC 033 | 111.86 | 113.23 | 1.37 | 3.0 | 4.0 | 0.15 | 10.95 | 3.0 | 9999 | 7299 | 0 | 5.0 | 16 | 10 | 38.00 | 2.0 | very broken up |
| 05 SWC 033 | 113.23 | 113.39 | 0.16 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 62494 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | very broken up |
| 05 SWC 033 | 113.39 | 113.69 | 0.30 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 33330 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | E.O.H ; very broken up |
| 05 SWC 031 | 0 | 63.86 | 63.86 | | 0.0 | | | 0.0 | 9999 | 157 | 6 | 5.0 | | 10 | 15.00 | 1.0 | overburden (no measurments were recorded) |
| 05 SWC 031 | 63.86 | 64.31 | 0.45 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 22220 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | very broken up interval |
| 05 SWC 031 | 64.31 | 64.62 | 0.31 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 32255 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken up interval |
| 05 SWC 031 | 64.62 | 66.14 | 1.52 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken up interval |
| 05 SWC 031 | 66.14 | 67.67 | 1.53 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken up interval |
| 05 SWC 031 | 67.67 | 69.19 | 1.52 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken up interval |
| 05 SWC 031 | 69.19 | 70.71 | 1.52 | 2.5 | 4.0 | 0.15 | 9.87 | 3.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 34.00 | 2.0 | broken up interval |
| 05 SWC 031 | 70.71 | 72.24 | 1.53 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken up interval |
| 05 SWC 031 | 72.24 | 73.76 | 1.52 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken up interval |
| 05 SWC 031 | 73.76 | 75.29 | 1.53 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken up interval |
| 05 SWC 031 | 75.29 | 76.81 | 1.52 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | visible malachite, broken up |
| 05 SWC 031 | 76.81 | 78.33 | 1.52 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | visible malachite and azaurite, broken up |
| 05 SWC 031 | 78.33 | 79.86 | 1.53 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | visible malachite, broken up |
| 05 SWC 031 | 79.86 | 81.38 | 1.52 | 3.0 | 4.0 | 0.13 | 8.55 | 3.0 | 9 | 6 | 169 | 8.0 | 12 | 10 | 37.00 | 2.0 | visible malachite |
| 05 SWC 031 | 81.38 | 82.91 | 1.53 | 3.0 | 4.0 | 1.32 | 86.27 | 17.0 | 8 | 5 | 191 | 8.0 | 14 | 10 | 53.00 | 3.0 | |
| 05 SWC 031 | 82.91 | 84.43 | 1.52 | 3.0 | 4.0 | 0.45 | 29.61 | 8.0 | 9 | 6 | 169 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 031 | 84.43 | 85.95 | 1.52 | 3.0 | 4.0 | 0.43 | 28.29 | 8.0 | 15 | 10 | 101 | 8.0 | 14 | 10 | 44.00 | 3.0 | visible malachite, broken up |
| 05 SWC 031 | 85.95 | 87.48 | 1.53 | 3.0 | 4.0 | 0.75 | 49.02 | 8.0 | 13 | 8 | 118 | 8.0 | 14 | 10 | 44.00 | 3.0 | visible malachite |
| 05 SWC 031 | 87.48 | 89.00 | 1.52 | 3.0 | 4.0 | 0.26 | 17.11 | 3.0 | 16 | 11 | 95 | 8.0 | 14 | 10 | 39.00 | 2.0 | visible malachite |
| 05 SWC 031 | 89.00 | 92.05 | 3.05 | 3.0 | 4.0 | 1.96 | 64.26 | 13.0 | 14 | 5 | 218 | 10.0 | 16 | 10 | 53.00 | 3.0 | |
| 05 SWC 031 | 92.05 | 93.57 | 1.52 | 3.0 | 4.0 | 1.14 | 75.00 | 17.0 | 5 | 3 | 304 | 10.0 | 16 | 10 | 57.00 | 3.0 | |
| 05 SWC 031 | 93.57 | 95.10 | 1.53 | 3.0 | 4.0 | 0.73 | 47.71 | 8.0 | 13 | 8 | 118 | 8.0 | 18 | 10 | 48.00 | 3.0 | visible malachite |
| 05 SWC 031 | 95.10 | 96.62 | 1.52 | 3.0 | 4.0 | 1.32 | 86.84 | 17.0 | 6 | 4 | 253 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 031 | 96.62 | 98.15 | 1.53 | 3.0 | 4.0 | 1.21 | 79.08 | 17.0 | 7 | 5 | 219 | 10.0 | 18 | 10 | 59.00 | 3.0 | visible malachite |
| 05 SWC 031 | 98.15 | 99.21 | 1.06 | 3.0 | 4.0 | 0.84 | 79.25 | 17.0 | 3 | 3 | 353 | 10.0 | 18 | 10 | 59.00 | 3.0 | E.O.H. |
| 05 SWC 030 | 0 | 72.24 | 72.24 | | 0.0 | | | 0.0 | 9999 | 138 | 7 | 5.0 | | 10 | 15.00 | 1.0 | overburden (no measurments recorded) |
| 05 SWC 030 | 72.24 | 73.46 | 1.22 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 8196 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | crushed up bits of rock with silt and sand |
| 05 SWC 030 | 73.46 | 74.98 | 1.52 | 1.0 | 1.0 | 0.44 | 28.95 | 8.0 | 19 | 12 | 80 | 8.0 | 12 | 10 | 39.00 | 2.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 SWC 030 | 74.98 | 76.20 | 1.22 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 12 | 10 | 102 | 8.0 | 12 | 10 | 31.00 | 2.0 | |
| 05 SWC 030 | 76.20 | 76.81 | 0.61 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 12 | 10 | 28.00 | 2.0 | interval consists of a couple bits of rock |
| 05 SWC 030 | 76.81 | 78.33 | 1.52 | 1.5 | 2.0 | 0.28 | 18.42 | 3.0 | 18 | 12 | 84 | 8.0 | 12 | 10 | 35.00 | 2.0 | |
| 05 SWC 030 | 78.33 | 79.86 | 1.53 | 2.0 | 2.0 | 0.26 | 16.99 | 3.0 | 18 | 12 | 85 | 8.0 | 12 | 10 | 35.00 | 2.0 | interval broken up |
| 05 SWC 030 | 79.86 | 80.47 | 0.61 | 2.0 | 2.0 | 0.18 | 29.51 | 8.0 | 4 | 7 | 153 | 8.0 | 12 | 10 | 40.00 | 2.0 | lots of weathered biotite |
| 05 SWC 030 | 80.47 | 81.99 | 1.52 | 3.0 | 4.0 | 0.73 | 48.03 | 8.0 | 10 | 7 | 152 | 8.0 | 12 | 10 | 42.00 | 3.0 | |
| 05 SWC 030 | 81.99 | 82.91 | 0.92 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 9999 | 10868 | 0 | 5.0 | 12 | 10 | 29.00 | 2.0 | interval very broken up |
| 05 SWC 030 | 82.91 | 84.43 | 1.52 | 2.5 | 4.0 | 0.91 | 59.87 | 13.0 | 11 | 7 | 138 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 030 | 84.43 | 85.95 | 1.52 | 2.5 | 4.0 | 0.40 | 26.32 | 8.0 | 5 | 3 | 304 | 10.0 | 14 | 10 | 46.00 | 3.0 | parts of interval are very broken up (crushed) |
| 05 SWC 030 | 85.95 | 87.17 | 1.22 | 2.5 | 4.0 | 0.50 | 40.98 | 8.0 | 4 | 3 | 305 | 10.0 | 0 | 10 | 32.00 | 2.0 | parts of interval are very broken up (crushed) |
| 05 SWC 030 | 87.17 | 88.70 | 1.53 | 2.5 | 4.0 | 0.65 | 42.48 | 8.0 | 12 | 8 | 128 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 030 | 88.70 | 90.53 | 1.83 | 2.5 | 4.0 | 0.95 | 51.91 | 13.0 | 10 | 5 | 183 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 030 | 90.53 | 90.83 | 0.30 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 33330 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | very broken up interval |
| 05 SWC 030 | 90.83 | 91.74 | 0.91 | 2.5 | 4.0 | 0.26 | 28.57 | 8.0 | 5 | 5 | 182 | 8.0 | 14 | 10 | 44.00 | 3.0 | broken up interval |
| 05 SWC 030 | 91.74 | 92.66 | 0.92 | 3.0 | 4.0 | 0.11 | 11.96 | 3.0 | 8 | 9 | 115 | 8.0 | 14 | 10 | 39.00 | 2.0 | broken up interval |
| 05 SWC 030 | 92.66 | 93.27 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 4 | 7 | 153 | 8.0 | 14 | 10 | 36.00 | 2.0 | broken up interval |
| 05 SWC 030 | 93.27 | 95.10 | 1.83 | 3.0 | 4.0 | 0.86 | 46.99 | 8.0 | 9 | 5 | 203 | 10.0 | 14 | 10 | 46.00 | 3.0 | |
| 05 SWC 030 | 95.10 | 96.62 | 1.52 | 3.0 | 4.0 | 0.90 | 59.21 | 13.0 | 9 | 6 | 169 | 8.0 | 16 | 10 | 51.00 | 3.0 | visible malachite on joint surfaces |
| 05 SWC 030 | 96.62 | 97.23 | 0.61 | 3.0 | 4.0 | 0.21 | 34.43 | 8.0 | 2 | 3 | 305 | 10.0 | 16 | 10 | 48.00 | 3.0 | visible malachite on joint surfaces, very broken up |
| 05 SWC 030 | 97.23 | 97.54 | 0.31 | 3.0 | 4.0 | 0.22 | 70.97 | 13.0 | 2 | 6 | 155 | 8.0 | 16 | 10 | 51.00 | 3.0 | E.O.H |
| 05 SWC 029 | 0 | 62.79 | 62.79 | | 0.0 | | | 0.0 | 9999 | 159 | 6 | 5.0 | | 10 | 15.00 | 1.0 | overburden ( no measurments recorded) |
| 05 SWC 029 | 62.79 | 63.09 | 0.30 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 33330 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | interval consists of fragments of rock, very broken up |
| 05 SWC 029 | 63.09 | 63.40 | 0.31 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 4 | 13 | 77 | 8.0 | 12 | 10 | 32.00 | 2.0 | interval very broken up |
| 05 SWC 029 | 63.40 | 64.62 | 1.22 | 2.5 | 4.0 | 0.17 | 13.93 | 3.0 | 10 | 8 | 122 | 8.0 | 12 | 10 | 37.00 | 2.0 | broken up |
| 05 SWC 029 | 64.62 | 66.14 | 1.52 | 2.5 | 4.0 | 0.26 | 17.11 | 3.0 | 14 | 9 | 109 | 8.0 | 12 | 10 | 37.00 | 2.0 | broken up |
| 05 SWC 029 | 66.14 | 67.67 | 1.53 | 2.5 | 4.0 | 0.28 | 18.30 | 3.0 | 4 | 3 | 383 | 10.0 | 12 | 10 | 39.00 | 2.0 | broken up |
| 05 SWC 029 | 67.67 | 69.19 | 1.52 | 3.0 | 4.0 | 0.25 | 16.45 | 3.0 | 23 | 15 | 66 | 8.0 | 12 | 10 | 37.00 | 2.0 | |
| 05 SWC 029 | 69.19 | 70.71 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 21 | 14 | 72 | 8.0 | 12 | 10 | 34.00 | 2.0 | |
| 05 SWC 029 | 70.71 | 72.24 | 1.53 | 3.0 | 4.0 | 0.74 | 48.37 | 8.0 | 14 | 9 | 109 | 8.0 | 14 | 10 | 44.00 | 3.0 | chalcopyrite on joint surfaces |
| 05 SWC 029 | 72.24 | 73.76 | 1.52 | 3.0 | 4.0 | 0.43 | 28.29 | 8.0 | 17 | 11 | 89 | 8.0 | 14 | 10 | 44.00 | 3.0 | chalcopyrite on joint surfaces |
| 05 SWC 029 | 73.76 | 75.29 | 1.53 | 3.0 | 4.0 | 0.30 | 19.61 | 3.0 | 18 | 12 | 85 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05 SWC 029 | 75.29 | 76.81 | 1.52 | 3.0 | 4.0 | 0.90 | 59.21 | 13.0 | 14 | 9 | 109 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 029 | 76.81 | 78.33 | 1.52 | 3.0 | 4.0 | 0.24 | 15.79 | 3.0 | 22 | 14 | 69 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05 SWC 029 | 78.33 | 79.86 | 1.53 | 3.0 | 4.0 | 0.99 | 64.71 | 13.0 | 11 | 7 | 139 | 8.0 | 14 | 10 | 49.00 | 3.0 | specks of malachite on joint surfaces |
| 05 SWC 029 | 79.86 | 81.38 | 1.52 | 3.0 | 4.0 | 0.56 | 36.84 | 8.0 | 15 | 10 | 101 | 8.0 | 14 | 10 | 44.00 | 3.0 | specks of malachite on joint surfaces |
| 05 SWC 029 | 81.38 | 82.91 | 1.53 | 3.0 | 4.0 | 1.20 | 78.43 | 17.0 | 7 | 5 | 219 | 10.0 | 14 | 10 | 55.00 | 3.0 | |
| 05 SWC 029 | 82.91 | 84.43 | 1.52 | 3.0 | 4.0 | 0.73 | 48.03 | 8.0 | 13 | 9 | 117 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 029 | 84.43 | 85.95 | 1.52 | 3.0 | 4.0 | 0.97 | 63.82 | 13.0 | 13 | 9 | 117 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 029 | 85.95 | 87.48 | 1.53 | 3.0 | 4.0 | 1.06 | 69.28 | 13.0 | 12 | 8 | 128 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 029 | 87.48 | 88.09 | 0.61 | 3.0 | 4.0 | 0.45 | 73.77 | 13.0 | 6 | 10 | 102 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 029 | 88.09 | 89.00 | 0.91 | 3.0 | 4.0 | 0.41 | 45.05 | 8.0 | 5 | 5 | 182 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 029 | 89.00 | 90.53 | 1.53 | 3.0 | 4.0 | 0.63 | 41.18 | 8.0 | 12 | 8 | 128 | 8.0 | 16 | 10 | 46.00 | 3.0 | specks of malachite on joint surfaces |
| 05 SWC 029 | 90.53 | 92.05 | 1.52 | 3.0 | 4.0 | 1.00 | 65.79 | 13.0 | 11 | 7 | 138 | 8.0 | 16 | 10 | 51.00 | 3.0 | specks of malachite on joint surfaces |
| 05 SWC 029 | 92.05 | 93.57 | 1.52 | 3.0 | 4.0 | 0.98 | 64.47 | 13.0 | 9 | 6 | 169 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 029 | 93.57 | 95.10 | 1.53 | 3.0 | 4.0 | 0.50 | 32.68 | 8.0 | 14 | 9 | 109 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 029 | 95.10 | 96.62 | 1.52 | 3.0 | 4.0 | 0.96 | 63.16 | 13.0 | 13 | 9 | 117 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 029 | 96.62 | 98.15 | 1.53 | 3.0 | 4.0 | 0.77 | 50.33 | 13.0 | 12 | 8 | 128 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 029 | 98.15 | 99.67 | 1.52 | 3.0 | 4.0 | 0.75 | 49.34 | 8.0 | 10 | 7 | 152 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 029 | 99.67 | 101.19 | 1.52 | 3.0 | 4.0 | 1.05 | 69.08 | 13.0 | 10 | 7 | 152 | 8.0 | 18 | 10 | 53.00 | 3.0 | possible epidote or chlorite on joint surfaces? |
| 05 SWC 029 | 101.19 | 102.72 | 1.53 | 3.0 | 4.0 | 0.74 | 48.37 | 8.0 | 11 | 7 | 139 | 8.0 | 18 | 10 | 48.00 | 3.0 | |

| | | | | | | RQD | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | Length (m) | % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
| 05 SWC 029 | 102.72 | 104.24 | 1.52 | 3.0 | 4.0 | 1.15 | 75.66 | 17.0 | 9 | 6 | 169 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 029 | 104.24 | 105.77 | 1.53 | 3.0 | 4.0 | 1.24 | 81.05 | 17.0 | 5 | 3 | 306 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 029 | 105.77 | 107.29 | 1.52 | 3.0 | 4.0 | 0.45 | 29.61 | 8.0 | 12 | 8 | 127 | 8.0 | 18 | 10 | 48.00 | 3.0 | part of interval is very broken up |
| 05 SWC 029 | 107.29 | 108.81 | 1.52 | 3.0 | 4.0 | 0.11 | 7.24 | 3.0 | 17 | 11 | 89 | 8.0 | 18 | 10 | 43.00 | 3.0 | part of interval is very broken up |
| 05 SWC 029 | 108.81 | 110.34 | 1.53 | 3.0 | 4.0 | 0.12 | 7.84 | 3.0 | 21 | 14 | 73 | 8.0 | 18 | 10 | 43.00 | 3.0 | chalcopyrite on joint surfaces |
| 05 SWC 029 | 110.34 | 111.86 | 1.52 | 3.0 | 4.0 | 0.25 | 16.45 | 3.0 | 23 | 15 | 66 | 8.0 | 18 | 10 | 43.00 | 3.0 | |
| 05 SWC 029 | 111.86 | 113.39 | 1.53 | 3.0 | 4.0 | 0.28 | 18.30 | 3.0 | 17 | 11 | 90 | 8.0 | 18 | 10 | 43.00 | 3.0 | |
| 05 SWC 029 | 113.39 | 114.91 | 1.52 | 3.0 | 4.0 | 0.53 | 34.87 | 8.0 | 17 | 11 | 89 | 8.0 | 18 | 10 | 48.00 | 3.0 | micas on joint surfaces |
| 05 SWC 029 | 114.91 | 116.43 | 1.52 | 3.0 | 4.0 | 0.69 | 45.39 | 8.0 | 11 | 7 | 138 | 8.0 | 18 | 10 | 48.00 | 3.0 | micas on joint surfaces |
| 05 SWC 029 | 116.43 | 117.96 | 1.53 | 3.0 | 4.0 | 0.76 | 49.67 | 8.0 | 9 | 6 | 170 | 8.0 | 18 | 10 | 48.00 | 3.0 | micas on joint surfaces |
| 05 SWC 029 | 117.96 | 119.48 | 1.52 | 3.0 | 4.0 | 0.86 | 56.58 | 13.0 | 14 | 9 | 109 | 8.0 | 18 | 10 | 53.00 | 3.0 | specks of malachite on joint surfaces |
| 05 SWC 029 | 119.48 | 121.01 | 1.53 | 3.0 | 4.0 | 1.09 | 71.24 | 13.0 | 10 | 7 | 153 | 8.0 | 18 | 10 | 53.00 | 3.0 | specks of malachite on joint surfaces |
| 05 SWC 029 | 121.01 | 122.53 | 1.52 | 3.0 | 4.0 | 1.32 | 86.84 | 17.0 | 9 | 6 | 169 | 8.0 | 18 | 10 | 57.00 | 3.0 | visible malachite on joint walls |
| 05 SWC 029 | 122.53 | 124.05 | 1.52 | 3.0 | 4.0 | 1.20 | 78.95 | 17.0 | 11 | 7 | 138 | 8.0 | 18 | 10 | 57.00 | 3.0 | visible malachite on joint walls |
| 05 SWC 029 | 124.05 | 125.58 | 1.53 | 3.0 | 4.0 | 0.83 | 54.25 | 13.0 | 11 | 7 | 139 | 8.0 | 18 | 10 | 53.00 | 3.0 | visible malachite on joint walls |
| 05 SWC 029 | 125.58 | 127.10 | 1.52 | 3.0 | 4.0 | 0.96 | 63.16 | 13.0 | 15 | 10 | 101 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 029 | 127.10 | 128.63 | 1.53 | 3.0 | 4.0 | 1.20 | 78.43 | 17.0 | 11 | 7 | 139 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 029 | 128.63 | 130.15 | 1.52 | 3.0 | 4.0 | 0.25 | 16.45 | 3.0 | 15 | 10 | 101 | 8.0 | 18 | 10 | 43.00 | 3.0 | interval broken up |
| 05 SWC 029 | 130.15 | 131.06 | 0.91 | 3.0 | 4.0 | 0.50 | 54.95 | 13.0 | 8 | 9 | 114 | 8.0 | 18 | 10 | 53.00 | 3.0 | E.O.H |
| 05 SWC 028 | 0 | 70.71 | 70.71 | | 0.0 | | | 0.0 | 9999 | 141 | 7 | 5.0 | | 10 | 15.00 | 1.0 | overburden (no measurments recorded) |
| 05 SWC 028 | 70.71 | 71.32 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9 | 15 | 68 | 8.0 | 14 | 10 | 36.00 | 2.0 | broken up interval, mica minerals on joint surfaces |
| 05 SWC 028 | 71.32 | 72.24 | 0.92 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9 | 10 | 102 | 8.0 | 14 | 10 | 36.00 | 2.0 | very broken up interval (crushed) |
| 05 SWC 028 | 72.24 | 73.76 | 1.52 | 2.5 | 4.0 | 0.22 | 14.47 | 3.0 | 18 | 12 | 84 | 8.0 | 14 | 10 | 39.00 | 2.0 | visible malachite on joint surfaces |
| 05 SWC 028 | 73.76 | 75.59 | 1.83 | 2.5 | 4.0 | 0.60 | 32.79 | 8.0 | 20 | 11 | 91 | 8.0 | 14 | 10 | 44.00 | 3.0 | wc joint is weathered biotite, visible malachite |
| 05 SWC 028 | 75.59 | 76.65 | 1.06 | 2.5 | 4.0 | 0.44 | 41.51 | 8.0 | 6 | 6 | 177 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 028 | 76.65 | 78.18 | 1.53 | 3.0 | 4.0 | 0.70 | 45.75 | 8.0 | 14 | 9 | 109 | 8.0 | 14 | 10 | 44.00 | 3.0 | visible malachite on joint surfaces |
| 05 SWC 028 | 78.18 | 79.86 | 1.68 | 3.0 | 4.0 | 0.99 | 58.93 | 13.0 | 9 | 5 | 187 | 8.0 | 14 | 10 | 49.00 | 3.0 | visible magnetite |
| 05 SWC 028 | 79.86 | 81.38 | 1.52 | 3.0 | 4.0 | 0.94 | 61.84 | 13.0 | 9 | 6 | 169 | 8.0 | 16 | 10 | 51.00 | 3.0 | visible magnetite on joint surface |
| 05 SWC 028 | 81.38 | 82.91 | 1.53 | 3.0 | 4.0 | 0.50 | 32.68 | 8.0 | 13 | 8 | 118 | 8.0 | 16 | 10 | 46.00 | 3.0 | visible magnetite on joint surface |
| 05 SWC 028 | 82.91 | 84.12 | 1.21 | 3.0 | 4.0 | 0.90 | 74.38 | 13.0 | 6 | 5 | 202 | 10.0 | 16 | 10 | 53.00 | 3.0 | specks of chalcopyrite on joint surface |
| 05 SWC 028 | 84.12 | 84.43 | 0.31 | 3.0 | 4.0 | 0.26 | 83.87 | 17.0 | 1 | 3 | 310 | 10.0 | 16 | 10 | 57.00 | 3.0 | chalcopyrite on joint surface, visible bands of magnetite |
| 05 SWC 028 | 84.43 | 85.95 | 1.52 | 3.0 | 4.0 | 1.05 | 69.08 | 13.0 | 12 | 8 | 127 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 028 | 85.95 | 86.87 | 0.92 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9 | 10 | 102 | 8.0 | 18 | 10 | 40.00 | 2.0 | possible flecks of native copper? |
| 05 SWC 028 | 86.87 | 88.39 | 1.52 | 3.0 | 4.0 | 0.66 | 43.42 | 8.0 | 11 | 7 | 138 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 028 | 88.39 | 90.53 | 2.14 | 3.5 | 7.0 | 1.33 | 62.15 | 13.0 | 18 | 8 | 119 | 8.0 | 18 | 10 | 56.00 | 3.0 | visible malachite on joint surfaces |
| 05 SWC 028 | 90.53 | 91.44 | 0.91 | 3.0 | 4.0 | 0.29 | 31.87 | 8.0 | 13 | 14 | 70 | 8.0 | 18 | 10 | 48.00 | 3.0 | visible malachite on joint surfaces |
| 05 SWC 028 | 91.44 | 93.27 | 1.83 | 3.0 | 4.0 | 0.88 | 48.09 | 8.0 | 13 | 7 | 141 | 8.0 | 18 | 10 | 48.00 | 3.0 | wc joint is weathered biotite |
| 05 SWC 028 | 93.27 | 94.18 | 0.91 | 3.0 | 4.0 | 0.34 | 37.36 | 8.0 | 8 | 9 | 114 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 028 | 94.18 | 95.71 | 1.53 | 3.0 | 4.0 | 1.20 | 78.43 | 17.0 | 5 | 3 | 306 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 028 | 95.71 | 97.23 | 1.52 | 3.0 | 4.0 | 1.48 | 97.37 | 20.0 | 3 | 2 | 507 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05 SWC 028 | 97.23 | 98.45 | 1.22 | 3.0 | 4.0 | 1.08 | 88.52 | 17.0 | 1 | 1 | 1220 | 16.0 | 18 | 10 | 65.00 | 4.0 | |
| 05 SWC 028 | 98.45 | 99.97 | 1.52 | 3.0 | 4.0 | 1.42 | 93.42 | 20.0 | 6 | 4 | 253 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05 SWC 028 | 99.97 | 101.19 | 1.22 | 3.0 | 4.0 | 0.42 | 34.43 | 8.0 | 9 | 7 | 136 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 028 | 101.19 | 102.72 | 1.53 | 3.0 | 4.0 | 1.06 | 69.28 | 13.0 | 9 | 6 | 170 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 028 | 102.72 | 104.24 | 1.52 | 3.0 | 4.0 | 1.37 | 90.13 | 20.0 | 4 | 3 | 380 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05 SWC 028 | 104.24 | 105.77 | 1.53 | 3.0 | 4.0 | 1.45 | 94.77 | 20.0 | 5 | 3 | 306 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05 SWC 028 | 105.77 | 107.29 | 1.52 | 3.0 | 4.0 | 1.11 | 73.03 | 13.0 | 10 | 7 | 152 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 028 | 107.29 | 108.81 | 1.52 | 3.0 | 4.0 | 1.11 | 73.03 | 13.0 | 9 | 6 | 169 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 028 | 108.81 | 110.34 | 1.53 | 3.0 | 4.0 | 0.69 | 45.10 | 8.0 | 12 | 8 | 128 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 028 | 110.34 | 111.86 | 1.52 | 3.0 | 4.0 | 0.80 | 52.63 | 13.0 | 10 | 7 | 152 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 028 | 111.86 | 113.39 | 1.53 | 3.0 | 4.0 | 1.06 | 69.28 | 13.0 | 9 | 6 | 170 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 028 | 113.39 | 114.91 | 1.52 | 3.0 | 4.0 | 0.65 | 42.76 | 8.0 | 13 | 9 | 117 | 8.0 | 18 | 10 | 48.00 | 3.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 SWC 028 | 114.91 | 116.43 | 1.52 | 3.0 | 4.0 | 1.09 | 71.71 | 13.0 | 9 | 6 | 169 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 028 | 116.43 | 117.96 | 1.53 | 3.0 | 4.0 | 1.28 | 83.66 | 17.0 | 9 | 6 | 170 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 028 | 117.96 | 120.40 | 2.44 | 3.0 | 4.0 | 0.97 | 39.75 | 8.0 | 14 | 6 | 174 | 8.0 | 18 | 10 | 48.00 | 3.0 | broken up interval |
| 05 SWC 028 | 120.40 | 121.31 | 0.91 | 3.0 | 4.0 | 0.43 | 47.25 | 8.0 | 8 | 9 | 114 | 8.0 | 16 | 10 | 46.00 | 3.0 | broken up interval |
| 05 SWC 028 | 121.31 | 122.53 | 1.22 | 3.0 | 4.0 | 0.47 | 38.52 | 8.0 | 16 | 13 | 76 | 8.0 | 16 | 10 | 46.00 | 3.0 | E.O.H |
| 05 SWC 027 | 0 | 36.88 | 36.88 | | 0.0 | | | 0.0 | 9999 | 271 | 4 | 5.0 | | 10 | 15.00 | 1.0 | overburden ( no measurments taken) |
| 05 SWC 027 | 36.88 | 37.80 | 0.92 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 10868 | 0 | 5.0 | 12 | 10 | 28.00 | 2.0 | very broken up interval |
| 05 SWC 027 | 37.80 | 39.01 | 1.21 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 13 | 11 | 93 | 8.0 | 12 | 10 | 34.00 | 2.0 | visible malachite on joint surfaces |
| 05 SWC 027 | 39.01 | 40.23 | 1.22 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 10 | 8 | 122 | 8.0 | 12 | 10 | 32.00 | 2.0 | visible malachite on joint surfaces, interval very broken up |
| 05 SWC 027 | 40.23 | 40.84 | 0.61 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 7 | 11 | 87 | 8.0 | 12 | 10 | 31.00 | 2.0 | broken up interval |
| 05 SWC 027 | 40.84 | 41.45 | 0.61 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9 | 15 | 68 | 8.0 | 12 | 10 | 31.00 | 2.0 | |
| 05 SWC 027 | 41.45 | 42.98 | 1.53 | 1.0 | 1.0 | 0.40 | 26.14 | 8.0 | 6 | 4 | 255 | 10.0 | 12 | 10 | 41.00 | 3.0 | |
| 05 SWC 027 | 42.98 | 43.59 | 0.61 | 1.0 | 1.0 | 0.11 | 18.03 | 3.0 | 9999 | 16392 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | broken up interval |
| 05 SWC 027 | 43.59 | 45.11 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | bits of broken up rock |
| 05 SWC 027 | 45.11 | 46.63 | 1.52 | 2.5 | 4.0 | 1.05 | 69.08 | 13.0 | 9 | 6 | 169 | 8.0 | 12 | 10 | 47.00 | 3.0 | |
| 05 SWC 027 | 46.63 | 47.85 | 1.22 | 2.5 | 4.0 | 0.67 | 54.92 | 13.0 | 12 | 10 | 102 | 8.0 | 12 | 10 | 47.00 | 3.0 | |
| 05 SWC 027 | 47.85 | 49.38 | 1.53 | 2.5 | 4.0 | 0.59 | 38.56 | 8.0 | 14 | 9 | 109 | 8.0 | 12 | 10 | 42.00 | 3.0 | |
| 05 SWC 027 | 49.38 | 49.99 | 0.61 | 4.0 | 7.0 | 0.31 | 50.82 | 13.0 | 4 | 7 | 153 | 8.0 | 14 | 10 | 52.00 | 3.0 | |
| 05 SWC 027 | 49.99 | 51.51 | 1.52 | 3.0 | 4.0 | 1.09 | 71.71 | 13.0 | 10 | 7 | 152 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 027 | 51.51 | 52.43 | 0.92 | 3.0 | 4.0 | 0.80 | 86.96 | 17.0 | 5 | 5 | 184 | 8.0 | 14 | 10 | 53.00 | 3.0 | |
| 05 SWC 027 | 52.43 | 53.95 | 1.52 | 3.0 | 4.0 | 1.05 | 69.08 | 13.0 | 7 | 5 | 217 | 10.0 | 14 | 10 | 51.00 | 3.0 | |
| 05 SWC 027 | 53.95 | 55.47 | 1.52 | 3.0 | 4.0 | 0.20 | 13.16 | 3.0 | 10 | 7 | 152 | 8.0 | 12 | 10 | 37.00 | 2.0 | |
| 05 SWC 027 | 55.47 | 56.08 | 0.61 | 1.0 | 1.0 | 0.49 | 80.33 | 17.0 | 2 | 3 | 305 | 10.0 | 12 | 10 | 50.00 | 3.0 | |
| 05 SWC 027 | 56.08 | 57.61 | 1.53 | 3.0 | 4.0 | 0.44 | 28.76 | 8.0 | 4 | 3 | 383 | 10.0 | 14 | 10 | 46.00 | 3.0 | most of the interval is very broken up |
| 05 SWC 027 | 57.61 | 58.52 | 0.91 | 3.0 | 4.0 | 0.13 | 14.29 | 3.0 | 13 | 14 | 70 | 8.0 | 14 | 10 | 39.00 | 2.0 | visible malachite on joint surfaces |
| 05 SWC 027 | 58.52 | 59.74 | 1.22 | 3.0 | 4.0 | 0.77 | 63.11 | 13.0 | 10 | 8 | 122 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 027 | 59.74 | 61.57 | 1.83 | 3.0 | 4.0 | 1.50 | 81.97 | 17.0 | 10 | 5 | 183 | 8.0 | 14 | 10 | 53.00 | 3.0 | |
| 05 SWC 027 | 61.57 | 63.09 | 1.52 | 3.0 | 4.0 | 0.76 | 50.00 | 8.0 | 6 | 4 | 253 | 10.0 | 14 | 10 | 46.00 | 3.0 | |
| 05 SWC 027 | 63.09 | 64.62 | 1.53 | 3.0 | 4.0 | 1.00 | 65.36 | 13.0 | 13 | 8 | 118 | 8.0 | 14 | 10 | 49.00 | 3.0 | visible magnetite |
| 05 SWC 027 | 64.62 | 65.23 | 0.61 | 3.0 | 4.0 | 0.28 | 45.90 | 8.0 | 7 | 11 | 87 | 8.0 | 14 | 10 | 44.00 | 3.0 | visible magnetite |
| 05 SWC 027 | 65.23 | 66.45 | 1.22 | 3.0 | 4.0 | 0.81 | 66.39 | 13.0 | 8 | 7 | 153 | 8.0 | 14 | 10 | 49.00 | 3.0 | visible magnetite |
| 05 SWC 027 | 66.45 | 67.67 | 1.22 | 3.0 | 4.0 | 0.76 | 62.30 | 13.0 | 6 | 5 | 203 | 10.0 | 14 | 10 | 51.00 | 3.0 | |
| 05 SWC 027 | 67.67 | 69.19 | 1.52 | 3.0 | 4.0 | 0.84 | 55.26 | 13.0 | 10 | 7 | 152 | 8.0 | 16 | 10 | 51.00 | 3.0 | visible chalcopyrite, bornite on joint surfaces |
| 05 SWC 027 | 69.19 | 70.71 | 1.52 | 3.0 | 4.0 | 1.10 | 72.37 | 13.0 | 9 | 6 | 169 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 027 | 70.71 | 72.24 | 1.53 | 3.0 | 4.0 | 0.93 | 60.78 | 13.0 | 9 | 6 | 170 | 8.0 | 16 | 10 | 51.00 | 3.0 | visible chalcopyrite on joint surfaces |
| 05 SWC 027 | 72.24 | 73.46 | 1.22 | 3.0 | 4.0 | 0.63 | 51.64 | 13.0 | 8 | 7 | 153 | 8.0 | 16 | 10 | 51.00 | 3.0 | altered micas on joint surfaces |
| 05 SWC 027 | 73.46 | 74.98 | 1.52 | 3.0 | 4.0 | 0.86 | 56.58 | 13.0 | 10 | 7 | 152 | 8.0 | 16 | 10 | 51.00 | 3.0 | visible chalcopyrite and bornite on joint surfaces |
| 05 SWC 027 | 74.98 | 76.50 | 1.52 | 3.0 | 4.0 | 1.35 | 88.82 | 17.0 | 5 | 3 | 304 | 10.0 | 16 | 10 | 57.00 | 3.0 | |
| 05 SWC 027 | 76.50 | 78.03 | 1.53 | 3.0 | 4.0 | 0.87 | 56.86 | 13.0 | 8 | 5 | 191 | 8.0 | 16 | 10 | 51.00 | 3.0 | visible magnetite, altered micas on some joint surfaces |
| 05 SWC 027 | 78.03 | 78.94 | 0.91 | 3.0 | 4.0 | 0.14 | 15.38 | 3.0 | 8 | 9 | 114 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 027 | 78.94 | 79.86 | 0.92 | 3.0 | 4.0 | 0.32 | 34.78 | 8.0 | 4 | 4 | 230 | 10.0 | 16 | 10 | 48.00 | 3.0 | flecks of chalcopyrite on joint surfaces |
| 05 SWC 027 | 79.86 | 81.38 | 1.52 | 3.0 | 4.0 | 1.32 | 86.84 | 17.0 | 8 | 5 | 190 | 8.0 | 16 | 10 | 55.00 | 3.0 | |
| 05 SWC 027 | 81.38 | 82.91 | 1.53 | 3.0 | 4.0 | 0.41 | 26.80 | 8.0 | 15 | 10 | 102 | 8.0 | 16 | 10 | 46.00 | 3.0 | altered micas on joint surfaces |
| 05 SWC 027 | 82.91 | 84.43 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 16 | 11 | 95 | 8.0 | 14 | 10 | 36.00 | 2.0 | altered micas on joint surfaces |
| 05 SWC 027 | 84.43 | 85.95 | 1.52 | 3.0 | 4.0 | 0.30 | 19.74 | 3.0 | 19 | 13 | 80 | 8.0 | 16 | 10 | 41.00 | 3.0 | altered micas on some of the joint surfaces |
| 05 SWC 027 | 85.95 | 86.56 | 0.61 | 2.5 | 4.0 | 0.12 | 19.67 | 3.0 | 6 | 10 | 102 | 8.0 | 16 | 10 | 41.00 | 3.0 | no visible joint sets |
| 05 SWC 027 | 86.56 | 87.48 | 0.92 | 3.0 | 4.0 | 0.12 | 13.04 | 3.0 | 5 | 5 | 184 | 8.0 | 16 | 10 | 41.00 | 3.0 | no visible joint sets, broken up interval, altered micas on j |
| 05 SWC 027 | 87.48 | 88.70 | 1.22 | 3.0 | 4.0 | 0.35 | 28.69 | 8.0 | 10 | 8 | 122 | 8.0 | 16 | 10 | 46.00 | 3.0 | very broken up interval |
| 05 SWC 027 | 88.70 | 89.00 | 0.30 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 1 | 3 | 300 | 10.0 | 16 | 10 | 40.00 | 2.0 | interval consists of a couple fragments of rock |
| 05 SWC 027 | 89.00 | 90.53 | 1.53 | 2.0 | 2.0 | 0.24 | 15.69 | 3.0 | 20 | 13 | 77 | 8.0 | 16 | 10 | 39.00 | 2.0 | |
| 05 SWC 027 | 90.53 | 91.44 | 0.91 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 7 | 8 | 130 | 8.0 | 16 | 10 | 38.00 | 2.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD | | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Length (m) | % | | | | | | | | | | |
| 05 SWC 027 | 91.44 | 92.05 | 0.61 | 3.0 | 4.0 | 0.12 | 19.67 | 3.0 | 7 | 11 | 87 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 027 | 92.05 | 92.96 | 0.91 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 12 | 13 | 76 | 8.0 | 16 | 10 | 38.00 | 2.0 | altered micas on joint surfaces |
| 05 SWC 027 | 92.96 | 93.57 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9 | 15 | 68 | 8.0 | 16 | 10 | 38.00 | 2.0 | |
| 05 SWC 027 | 93.57 | 94.03 | 0.46 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 7 | 15 | 66 | 8.0 | 16 | 10 | 38.00 | 2.0 | |
| 05 SWC 027 | 94.03 | 95.10 | 1.07 | 3.0 | 4.0 | 0.48 | 44.86 | 8.0 | 6 | 6 | 178 | 8.0 | 16 | 10 | 46.00 | 3.0 | epidote on joint surfaces |
| 05 SWC 027 | 95.10 | 96.62 | 1.52 | 3.0 | 4.0 | 0.26 | 17.11 | 3.0 | 9 | 6 | 169 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 027 | 96.62 | 97.84 | 1.22 | 3.0 | 4.0 | 0.70 | 57.38 | 13.0 | 7 | 6 | 174 | 8.0 | 16 | 10 | 51.00 | 3.0 | no visible joint sets |
| 05 SWC 027 | 97.84 | 99.36 | 1.52 | 3.0 | 4.0 | 0.13 | 8.55 | 3.0 | 8 | 5 | 190 | 8.0 | 18 | 10 | 43.00 | 3.0 | interval very broken up |
| 05 SWC 027 | 99.36 | 99.97 | 0.61 | 3.0 | 4.0 | 0.12 | 19.67 | 3.0 | 9 | 15 | 68 | 8.0 | 18 | 10 | 43.00 | 3.0 | |
| 05 SWC 027 | 99.97 | 100.58 | 0.61 | 3.0 | 4.0 | 0.22 | 36.07 | 8.0 | 6 | 10 | 102 | 8.0 | 18 | 10 | 48.00 | 3.0 | E.O.H |
| 05 SWC 026 | 0 | 50.58 | 50.58 | | 0.0 | | | 0.0 | 9999 | 198 | 5 | 5.0 | | 10 | 15.00 | 1.0 | overburden (no measurments were taken) |
| 05 SWC 026 | 50.58 | 50.90 | 0.32 | 4.0 | 7.0 | 0.00 | 0.00 | 0.0 | 9999 | 31247 | 0 | 5.0 | | 10 | 22.00 | 2.0 | rocks the drill has been grinding on |
| 05 SWC 026 | 50.90 | 52.43 | 1.53 | 4.0 | 7.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 22.00 | 2.0 | this run consists of a few pieces of rock |
| 05 SWC 026 | 52.43 | 55.47 | 3.04 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 3289 | 0 | 5.0 | 10 | 10 | 26.00 | 2.0 | |
| 05 SWC 026 | 55.47 | 57.00 | 1.53 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 12 | 10 | 28.00 | 2.0 | |
| 05 SWC 026 | 57.00 | 58.52 | 1.52 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 13 | 9 | 117 | 8.0 | 12 | 10 | 32.00 | 2.0 | broken up run |
| 05 SWC 026 | 58.52 | 60.05 | 1.53 | 2.5 | 4.0 | 0.20 | 13.07 | 3.0 | 3 | 2 | 510 | 10.0 | 12 | 10 | 39.00 | 2.0 | |
| 05 SWC 026 | 60.05 | 61.57 | 1.52 | 2.5 | 4.0 | 0.38 | 25.00 | 3.0 | 7 | 5 | 217 | 10.0 | 12 | 10 | 39.00 | 2.0 | |
| 05 SWC 026 | 61.57 | 63.09 | 1.52 | 3.0 | 4.0 | 0.38 | 25.00 | 3.0 | 9 | 6 | 169 | 8.0 | 12 | 10 | 37.00 | 2.0 | |
| 05 SWC 026 | 63.09 | 64.62 | 1.53 | 3.5 | 7.0 | 0.00 | 0.00 | 0.0 | 19 | 12 | 81 | 8.0 | 12 | 10 | 37.00 | 2.0 | visible malachite on joint walls |
| 05 SWC 026 | 64.62 | 66.14 | 1.52 | 3.0 | 4.0 | 0.52 | 34.21 | 8.0 | 14 | 9 | 109 | 8.0 | 12 | 10 | 42.00 | 3.0 | visible bornite |
| 05 SWC 026 | 66.14 | 67.67 | 1.53 | 2.5 | 4.0 | 0.22 | 14.38 | 3.0 | 12 | 8 | 128 | 8.0 | 12 | 10 | 37.00 | 2.0 | |
| 05 SWC 026 | 67.67 | 69.19 | 1.52 | 3.0 | 4.0 | 0.89 | 58.55 | 13.0 | 8 | 5 | 190 | 8.0 | 12 | 10 | 47.00 | 3.0 | |
| 05 SWC 026 | 69.19 | 70.71 | 1.52 | 3.0 | 4.0 | 0.11 | 7.24 | 3.0 | 10 | 7 | 152 | 8.0 | 12 | 10 | 37.00 | 2.0 | |
| 05 SWC 026 | 70.71 | 72.24 | 1.53 | 3.0 | 4.0 | 0.39 | 25.49 | 8.0 | 9 | 6 | 170 | 8.0 | 12 | 10 | 42.00 | 3.0 | soft mineral coating on joint walls (altered micas) |
| 05 SWC 026 | 72.24 | 73.76 | 1.52 | 3.0 | 4.0 | 0.42 | 27.63 | 8.0 | 14 | 9 | 109 | 8.0 | 12 | 10 | 42.00 | 3.0 | |
| 05 SWC 026 | 73.76 | 75.29 | 1.53 | 3.0 | 4.0 | 1.27 | 83.01 | 17.0 | 7 | 5 | 219 | 10.0 | 12 | 10 | 53.00 | 3.0 | visible sulphides on joint walls (chalcopyrite) |
| 05 SWC 026 | 75.29 | 76.81 | 1.52 | 3.0 | 4.0 | 0.94 | 61.84 | 13.0 | 8 | 5 | 190 | 8.0 | 12 | 10 | 47.00 | 3.0 | |
| 05 SWC 026 | 76.81 | 78.33 | 1.52 | 3.0 | 4.0 | 0.69 | 45.39 | 8.0 | 13 | 9 | 117 | 8.0 | 14 | 10 | 44.00 | 3.0 | visible sulphides on joint walls |
| 05 SWC 026 | 78.33 | 79.55 | 1.22 | 3.0 | 4.0 | 0.40 | 32.79 | 8.0 | 13 | 11 | 94 | 8.0 | 14 | 10 | 44.00 | 3.0 | visible sulphides on joint walls |
| 05 SWC 026 | 79.55 | 79.86 | 0.31 | 4.0 | 7.0 | 0.00 | 0.00 | 0.0 | 9999 | 32255 | 0 | 5.0 | 14 | 10 | 36.00 | 2.0 | very broken up interval |
| 05 SWC 026 | 79.86 | 81.38 | 1.52 | 3.0 | 4.0 | 0.34 | 22.37 | 3.0 | 20 | 13 | 76 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05 SWC 026 | 81.38 | 82.91 | 1.53 | 3.0 | 4.0 | 0.79 | 51.63 | 13.0 | 10 | 7 | 153 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 026 | 82.91 | 84.43 | 1.52 | 3.0 | 4.0 | 0.76 | 50.00 | 8.0 | 12 | 8 | 127 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 026 | 84.43 | 85.34 | 0.91 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 15 | 16 | 61 | 8.0 | 14 | 10 | 36.00 | 2.0 | visible epidote on joint walls |
| 05 SWC 026 | 85.34 | 86.87 | 1.53 | 3.0 | 4.0 | 0.62 | 40.52 | 8.0 | 13 | 8 | 118 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 026 | 86.87 | 88.39 | 1.52 | 4.0 | 7.0 | 0.53 | 34.87 | 8.0 | 16 | 11 | 95 | 8.0 | 16 | 10 | 49.00 | 3.0 | |
| 05 SWC 026 | 88.39 | 89.00 | 0.61 | 5.0 | 12.0 | 0.15 | 24.59 | 3.0 | 5 | 8 | 122 | 8.0 | 16 | 10 | 49.00 | 3.0 | |
| 05 SWC 026 | 89.00 | 90.53 | 1.53 | 5.0 | 12.0 | 0.59 | 38.56 | 8.0 | 18 | 12 | 85 | 8.0 | 16 | 10 | 54.00 | 3.0 | |
| 05 SWC 026 | 90.53 | 92.05 | 1.52 | 3.0 | 4.0 | 0.68 | 44.74 | 8.0 | 6 | 4 | 253 | 10.0 | 14 | 10 | 46.00 | 3.0 | |
| 05 SWC 026 | 92.05 | 93.57 | 1.52 | 3.0 | 4.0 | 0.46 | 30.26 | 8.0 | 14 | 9 | 109 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 026 | 93.57 | 95.10 | 1.53 | 3.0 | 4.0 | 0.49 | 32.03 | 8.0 | 13 | 8 | 118 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 026 | 95.10 | 96.62 | 1.52 | 3.0 | 4.0 | 0.65 | 42.76 | 8.0 | 9 | 6 | 169 | 8.0 | 16 | 10 | 46.00 | 3.0 | visible epidote on joint walls |
| 05 SWC 026 | 96.62 | 97.84 | 1.22 | 3.0 | 4.0 | 0.99 | 81.15 | 17.0 | 8 | 7 | 153 | 8.0 | 16 | 10 | 55.00 | 3.0 | |
| 05 SWC 026 | 97.84 | 98.15 | 0.31 | 3.0 | 4.0 | 0.12 | 38.71 | 8.0 | 2 | 6 | 155 | 8.0 | 16 | 10 | 46.00 | 3.0 | run too short no visible joint sets |
| 05 SWC 026 | 98.15 | 99.67 | 1.52 | 3.0 | 4.0 | 0.73 | 48.03 | 8.0 | 13 | 9 | 117 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 026 | 99.67 | 101.19 | 1.52 | 3.0 | 4.0 | 0.38 | 25.00 | 8.0 | 11 | 7 | 138 | 8.0 | 14 | 10 | 44.00 | 3.0 | very broken up interval |
| 05 SWC 026 | 101.19 | 102.72 | 1.53 | 3.0 | 4.0 | 0.86 | 56.21 | 13.0 | 12 | 8 | 128 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 026 | 102.72 | 104.24 | 1.52 | 3.0 | 4.0 | 0.45 | 29.61 | 8.0 | 15 | 10 | 101 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 026 | 104.24 | 105.77 | 1.53 | 3.0 | 4.0 | 0.85 | 55.56 | 13.0 | 11 | 7 | 139 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 026 | 105.77 | 107.29 | 1.52 | 3.0 | 4.0 | 1.07 | 70.39 | 13.0 | 8 | 5 | 190 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 026 | 107.29 | 108.81 | 1.52 | 3.0 | 4.0 | 0.51 | 33.55 | 8.0 | 15 | 10 | 101 | 8.0 | 16 | 10 | 46.00 | 3.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 SWC 026 | 108.81 | 110.34 | 1.53 | 3.0 | 4.0 | 0.63 | 41.18 | 8.0 | 10 | 7 | 153 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 026 | 110.34 | 111.86 | 1.52 | 3.0 | 4.0 | 0.30 | 19.74 | 3.0 | 13 | 9 | 117 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 026 | 111.86 | 113.39 | 1.53 | 3.0 | 4.0 | 0.22 | 14.38 | 3.0 | 11 | 7 | 139 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05 SWC 026 | 113.39 | 114.91 | 1.52 | 1.5 | 2.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 29.00 | 2.0 | very broken up interval, (altered micas on joint surfaces?) |
| 05 SWC 026 | 114.91 | 116.43 | 1.52 | 1.5 | 2.0 | 0.53 | 34.87 | 8.0 | 8 | 5 | 190 | 8.0 | 12 | 10 | 40.00 | 2.0 | interval mostly broken up ( crushed ) |
| 05 SWC 026 | 116.43 | 117.96 | 1.53 | 1.5 | 2.0 | 0.42 | 27.45 | 8.0 | 11 | 7 | 139 | 8.0 | 14 | 10 | 42.00 | 3.0 | altered micas on joint walls |
| 05 SWC 026 | 117.96 | 119.48 | 1.52 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 13 | 9 | 117 | 8.0 | 12 | 10 | 34.00 | 2.0 | broken up interval |
| 05 SWC 026 | 119.48 | 121.01 | 1.53 | 3.0 | 4.0 | 0.18 | 11.76 | 3.0 | 13 | 8 | 118 | 8.0 | 16 | 10 | 41.00 | 3.0 | broken up interval |
| 05 SWC 026 | 121.01 | 122.53 | 1.52 | 3.0 | 4.0 | 0.62 | 40.79 | 8.0 | 13 | 9 | 117 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 026 | 122.53 | 124.05 | 1.52 | 3.0 | 4.0 | 0.25 | 16.45 | 3.0 | 17 | 11 | 89 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 026 | 124.05 | 125.58 | 1.53 | 3.0 | 4.0 | 0.40 | 26.14 | 8.0 | 13 | 8 | 118 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 026 | 125.58 | 127.10 | 1.52 | 3.0 | 4.0 | 0.66 | 43.42 | 8.0 | 14 | 9 | 109 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 026 | 127.10 | 128.63 | 1.53 | 3.0 | 4.0 | 0.67 | 43.79 | 8.0 | 11 | 7 | 139 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 026 | 128.63 | 130.15 | 1.52 | 3.0 | 4.0 | 0.43 | 28.29 | 8.0 | 10 | 7 | 152 | 8.0 | 16 | 10 | 46.00 | 3.0 | possible epidote on joint walls |
| 05 SWC 026 | 130.15 | 131.67 | 1.52 | 3.0 | 4.0 | 0.48 | 31.58 | 8.0 | 11 | 7 | 138 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 026 | 131.67 | 133.20 | 1.53 | 3.0 | 4.0 | 1.17 | 76.47 | 17.0 | 5 | 3 | 306 | 10.0 | 16 | 10 | 57.00 | 3.0 | part of interval is very broken up |
| 05 SWC 026 | 133.20 | 134.72 | 1.52 | 3.0 | 4.0 | 0.53 | 34.87 | 8.0 | 12 | 8 | 127 | 8.0 | 16 | 10 | 46.00 | 3.0 | part of interval is very broken up |
| 05 SWC 026 | 134.72 | 136.25 | 1.53 | 3.0 | 4.0 | 0.30 | 19.61 | 3.0 | 11 | 7 | 139 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 026 | 136.25 | 137.77 | 1.52 | 3.0 | 4.0 | 0.94 | 61.84 | 13.0 | 9 | 6 | 169 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 026 | 137.77 | 138.99 | 1.22 | 3.0 | 4.0 | 0.59 | 48.36 | 8.0 | 9 | 7 | 136 | 8.0 | 16 | 10 | 46.00 | 3.0 | epidote on joint walls |
| 05 SWC 026 | 138.99 | 139.90 | 0.91 | 3.0 | 4.0 | 0.60 | 65.93 | 13.0 | 7 | 8 | 130 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 026 | 139.90 | 140.82 | 0.92 | 3.0 | 4.0 | 0.56 | 60.87 | 13.0 | 5 | 5 | 184 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 026 | 140.82 | 142.34 | 1.52 | 3.0 | 4.0 | 0.92 | 60.53 | 13.0 | 10 | 7 | 152 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 026 | 142.34 | 143.87 | 1.53 | 3.0 | 4.0 | 0.47 | 30.72 | 8.0 | 10 | 7 | 153 | 8.0 | 16 | 10 | 46.00 | 3.0 | altered chlorite on some of the joint walls |
| 05 SWC 026 | 143.87 | 144.78 | 0.91 | 3.0 | 4.0 | 0.48 | 52.75 | 13.0 | 6 | 7 | 152 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 026 | 144.78 | 146.30 | 1.52 | 3.0 | 4.0 | 0.68 | 44.74 | 8.0 | 14 | 9 | 109 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 026 | 146.30 | 147.52 | 1.22 | 3.0 | 4.0 | 0.39 | 31.97 | 8.0 | 8 | 7 | 153 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 026 | 147.52 | 149.05 | 1.53 | 3.5 | 7.0 | 0.29 | 18.95 | 3.0 | 18 | 12 | 85 | 8.0 | 18 | 10 | 46.00 | 3.0 | very broken up interval |
| 05 SWC 026 | 149.05 | 150.57 | 1.52 | 3.5 | 7.0 | 0.52 | 34.21 | 8.0 | 18 | 12 | 84 | 8.0 | 16 | 10 | 49.00 | 3.0 | very broken up interval |
| 05 SWC 026 | 150.57 | 152.10 | 1.53 | 3.5 | 7.0 | 0.43 | 28.10 | 8.0 | 8 | 5 | 191 | 8.0 | 16 | 10 | 49.00 | 3.0 | altered chlorite on some of the joint walls |
| 05 SWC 026 | 152.10 | 153.01 | 0.91 | 3.5 | 7.0 | 0.42 | 46.15 | 8.0 | 11 | 12 | 83 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05 SWC 026 | 153.01 | 154.53 | 1.52 | 3.0 | 4.0 | 0.96 | 63.16 | 13.0 | 9 | 6 | 169 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 026 | 154.53 | 156.06 | 1.53 | 3.0 | 4.0 | 0.37 | 24.18 | 3.0 | 12 | 8 | 128 | 8.0 | 18 | 10 | 43.00 | 3.0 | |
| 05 SWC 026 | 156.06 | 157.58 | 1.52 | 3.5 | 7.0 | 0.54 | 35.53 | 8.0 | 10 | 7 | 152 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05 SWC 026 | 157.58 | 158.80 | 1.22 | 3.0 | 4.0 | 0.11 | 9.02 | 3.0 | 14 | 11 | 87 | 8.0 | 18 | 10 | 43.00 | 3.0 | |
| 05 SWC 026 | 158.80 | 159.11 | 0.31 | 3.0 | 4.0 | 0.12 | 38.71 | 8.0 | 3 | 10 | 103 | 8.0 | 18 | 10 | 48.00 | 3.0 | visible epidote on joint walls |
| 05 SWC 026 | 159.11 | 160.63 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 11 | 7 | 138 | 8.0 | 18 | 10 | 40.00 | 2.0 | very broken up interval, visible epidote on joint surfaces |
| 05 SWC 026 | 160.63 | 162.15 | 1.52 | 3.5 | 7.0 | 0.75 | 49.34 | 8.0 | 13 | 9 | 117 | 8.0 | 18 | 10 | 51.00 | 3.0 | interval very broken up in some parts |
| 05 SWC 026 | 162.15 | 163.68 | 1.53 | 4.0 | 7.0 | 0.71 | 46.41 | 8.0 | 20 | 13 | 77 | 8.0 | 18 | 10 | 51.00 | 3.0 | epidote on joint surfaces |
| 05 SWC 026 | 163.68 | 165.20 | 1.52 | 3.0 | 4.0 | 0.74 | 48.68 | 8.0 | 13 | 9 | 117 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 026 | 165.20 | 166.73 | 1.53 | 3.0 | 4.0 | 0.43 | 28.10 | 8.0 | 19 | 12 | 81 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 026 | 166.73 | 168.25 | 1.52 | 2.5 | 4.0 | 0.64 | 42.11 | 8.0 | 11 | 7 | 138 | 8.0 | 18 | 10 | 48.00 | 3.0 | altered micas on some of the joint surfaces, part of the int |
| 05 SWC 026 | 168.25 | 169.77 | 1.52 | 3.0 | 4.0 | 0.68 | 44.74 | 8.0 | 15 | 10 | 101 | 8.0 | 18 | 10 | 48.00 | 3.0 | altered micas on joint surfaces |
| 05 SWC 026 | 169.77 | 171.30 | 1.53 | 3.0 | 4.0 | 1.19 | 77.78 | 17.0 | 7 | 5 | 219 | 10.0 | 18 | 10 | 59.00 | 3.0 | altered micas on joint surfaces |
| 05 SWC 026 | 171.30 | 172.82 | 1.52 | 3.0 | 4.0 | 0.83 | 54.61 | 13.0 | 12 | 8 | 127 | 8.0 | 18 | 10 | 53.00 | 3.0 | altered micas on joint surfaces |
| 05 SWC 026 | 172.82 | 174.35 | 1.53 | 3.0 | 4.0 | 0.73 | 47.71 | 8.0 | 10 | 7 | 153 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 026 | 174.35 | 175.87 | 1.52 | 3.0 | 4.0 | 1.25 | 82.24 | 17.0 | 8 | 5 | 190 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 026 | 175.87 | 177.39 | 1.52 | 3.0 | 4.0 | 0.55 | 36.18 | 8.0 | 11 | 7 | 138 | 8.0 | 16 | 10 | 46.00 | 3.0 | altered micas on joint surfaces |
| 05 SWC 026 | 177.39 | 178.92 | 1.53 | 3.0 | 4.0 | 1.59 | 103.92 | 20.0 | 4 | 3 | 383 | 10.0 | 18 | 10 | 62.00 | 4.0 | epidote on joint surfaces |
| 05 SWC 026 | 178.92 | 180.44 | 1.52 | 3.0 | 4.0 | 1.23 | 80.92 | 17.0 | 7 | 5 | 217 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 026 | 180.44 | 181.97 | 1.53 | 3.0 | 4.0 | 1.16 | 75.82 | 17.0 | 10 | 7 | 153 | 8.0 | 18 | 10 | 57.00 | 3.0 | altered micas on joint surfaces |
| 05 SWC 026 | 181.97 | 183.49 | 1.52 | 3.0 | 4.0 | 1.15 | 75.66 | 17.0 | 8 | 5 | 190 | 8.0 | 18 | 10 | 57.00 | 3.0 | E.O.H |
| 05 SWC 024 | 0 | 9.75 | 9.75 | | 0.0 | | | 0.0 | 9999 | 1026 | 1 | 5.0 | | 10 | 15.00 | 1.0 | |
| 05 SWC 024 | 9.75 | 11.28 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | |
| 05 SWC 024 | 11.28 | 12.80 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | |
| 05 SWC 024 | 12.80 | 14.33 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | |
| 05 SWC 024 | 14.33 | 15.85 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | |
| 05 SWC 024 | 15.85 | 17.37 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | |
| 05 SWC 024 | 17.37 | 18.90 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | |
| 05 SWC 024 | 18.90 | 19.81 | 0.91 | | 0.0 | | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | | 10 | 15.00 | 1.0 | |
| 05 SWC 024 | 19.81 | 20.73 | 0.92 | | 0.0 | | 0.00 | 0.0 | 9999 | 10868 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | RQD J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 SWC 024 | 20.73 | 21.03 | 0.30 | | 0.0 | | 0.00 | 0.0 | 9999 | 33330 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 21.03 | 22.86 | 1.83 | | 0.0 | | 0.00 | 0.0 | 9999 | 5464 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 22.86 | 24.99 | 2.13 | | 0.0 | | 0.00 | 0.0 | 9999 | 4694 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 24.99 | 26.57 | 1.58 | | 0.0 | | 0.00 | 0.0 | 9999 | 6328 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 26.57 | 28.04 | 1.47 | | 0.0 | | 0.00 | 0.0 | 9999 | 6802 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 28.04 | 29.57 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 29.57 | 31.70 | 2.13 | | 0.0 | | 0.00 | 0.0 | 9999 | 4694 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 31.70 | 33.53 | 1.83 | | 0.0 | | 0.00 | 0.0 | 9999 | 5464 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 33.53 | 35.36 | 1.83 | | 0.0 | | 0.00 | 0.0 | 9999 | 5464 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 35.36 | 36.88 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 36.88 | 38.40 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 38.40 | 39.93 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 39.93 | 41.76 | 1.83 | | 0.0 | | 0.00 | 0.0 | 9999 | 5464 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 41.76 | 44.81 | 3.05 | | 0.0 | | 0.00 | 0.0 | 9999 | 3278 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 44.81 | 45.72 | 0.91 | | 0.0 | | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 45.72 | 46.63 | 0.91 | | 0.0 | | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 46.63 | 48.46 | 1.83 | | 0.0 | | 0.00 | 0.0 | 9999 | 5464 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 48.46 | 49.38 | 0.92 | | 0.0 | | 0.00 | 0.0 | 9999 | 10868 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 49.38 | 51.21 | 1.83 | | 0.0 | | 0.00 | 0.0 | 9999 | 5464 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 51.21 | 51.82 | 0.61 | | 0.0 | | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | | 10 | 15.00 | 1.0 | overburden - no measurments were taken |
| 05 SWC 024 | 51.82 | 53.64 | 1.82 | 3.0 | 4.0 | 0.99 | 54.40 | 13.0 | 13 | 7 | 140 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 024 | 53.64 | 55.17 | 1.53 | 3.0 | 4.0 | 0.14 | 9.15 | 3.0 | 16 | 10 | 96 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05 SWC 024 | 55.17 | 56.39 | 1.22 | 3.0 | 4.0 | 0.55 | 45.08 | 8.0 | 9 | 7 | 136 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 024 | 56.39 | 58.22 | 1.83 | 3.0 | 4.0 | 0.92 | 50.27 | 13.0 | 14 | 8 | 131 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 024 | 58.22 | 58.83 | 0.61 | 3.0 | 4.0 | 0.14 | 22.95 | 3.0 | 8 | 13 | 76 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05 SWC 024 | 58.83 | 60.35 | 1.52 | 3.0 | 4.0 | 0.23 | 15.13 | 3.0 | 18 | 12 | 84 | 8.0 | 14 | 10 | 39.00 | 2.0 | very broken up , visible malachite |
| 05 SWC 024 | 60.35 | 61.57 | 1.22 | 3.0 | 4.0 | 0.11 | 9.02 | 3.0 | 12 | 10 | 102 | 8.0 | 14 | 10 | 39.00 | 2.0 | visible malachite on joint walls |
| 05 SWC 024 | 61.57 | 62.48 | 0.91 | 2.5 | 4.0 | 0.11 | 12.09 | 3.0 | 15 | 16 | 61 | 8.0 | 14 | 10 | 39.00 | 2.0 | visible malachite and azurite on joint walls |
| 05 SWC 024 | 62.48 | 64.01 | 1.53 | 2.5 | 4.0 | 0.24 | 15.69 | 3.0 | 15 | 10 | 102 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05 SWC 024 | 64.01 | 65.53 | 1.52 | 2.5 | 4.0 | 0.26 | 17.11 | 3.0 | 18 | 12 | 84 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05 SWC 024 | 65.53 | 67.06 | 1.53 | 3.0 | 4.0 | 0.72 | 47.06 | 8.0 | 13 | 8 | 118 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 024 | 67.06 | 68.58 | 1.52 | 3.0 | 4.0 | 0.36 | 23.68 | 3.0 | 16 | 11 | 95 | 8.0 | 14 | 10 | 39.00 | 2.0 | visible malachite on joint walls |
| 05 SWC 024 | 68.58 | 70.10 | 1.52 | 3.0 | 4.0 | 0.53 | 34.87 | 8.0 | 14 | 9 | 109 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 024 | 70.10 | 71.63 | 1.53 | 3.0 | 4.0 | 0.67 | 43.79 | 8.0 | 16 | 10 | 96 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 024 | 71.63 | 73.15 | 1.52 | 3.0 | 4.0 | 0.64 | 42.11 | 8.0 | 17 | 11 | 89 | 8.0 | 14 | 10 | 44.00 | 3.0 | massive magnetite |
| 05 SWC 024 | 73.15 | 74.68 | 1.53 | 3.0 | 4.0 | 0.56 | 36.60 | 8.0 | 12 | 8 | 128 | 8.0 | 14 | 10 | 44.00 | 3.0 | visible malachite and azurite on joint walls |
| 05 SWC 024 | 74.68 | 76.20 | 1.52 | 3.0 | 4.0 | 0.98 | 64.47 | 13.0 | 11 | 7 | 138 | 8.0 | 14 | 10 | 49.00 | 3.0 | visible malachite on joint walls |
| 05 SWC 024 | 76.20 | 77.11 | 0.91 | 3.0 | 4.0 | 0.30 | 32.97 | 8.0 | 6 | 7 | 152 | 8.0 | 14 | 10 | 44.00 | 3.0 | visible malachite on joint walls |
| 05 SWC 024 | 77.11 | 78.64 | 1.53 | 3.0 | 4.0 | 1.34 | 87.58 | 17.0 | 5 | 3 | 306 | 10.0 | 16 | 10 | 57.00 | 3.0 | |
| 05 SWC 024 | 78.64 | 79.86 | 1.22 | 3.0 | 4.0 | 0.93 | 76.23 | 17.0 | 9 | 7 | 136 | 8.0 | 14 | 10 | 53.00 | 3.0 | visible malachite on joint walls |
| 05 SWC 024 | 79.86 | 81.38 | 1.52 | 3.0 | 4.0 | 1.28 | 84.21 | 17.0 | 6 | 4 | 253 | 10.0 | 16 | 10 | 57.00 | 3.0 | E.O.H. |
| 05 SWC 025 | 0 | 48.16 | 48.16 | | 0.0 | | | 0.0 | 9999 | 208 | 5 | 5.0 | | 10 | 15.00 | 1.0 | overburden no measurments taken |
| 05 SWC 025 | 48.16 | 49.38 | 1.22 | 4.5 | 12.0 | 0.12 | 9.84 | 3.0 | 4 | 3 | 305 | 10.0 | 12 | 10 | 47.00 | 3.0 | mostly overburden |
| 05 SWC 025 | 49.38 | 52.43 | 3.05 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 9999 | 3278 | 0 | 5.0 | 12 | 10 | 29.00 | 2.0 | very broken up, brittle, crs grained |
| 05 SWC 025 | 52.43 | 53.73 | 1.30 | 2.0 | 2.0 | 0.13 | 10.00 | 3.0 | 2 | 2 | 650 | 16.0 | 12 | 10 | 43.00 | 3.0 | |
| 05 SWC 025 | 53.73 | 55.47 | 1.74 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 7 | 4 | 249 | 10.0 | 12 | 10 | 36.00 | 2.0 | very broken up |
| 05 SWC 025 | 55.47 | 57.00 | 1.53 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | very broken up |
| 05 SWC 025 | 57.00 | 58.52 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | very broken up |
| 05 SWC 025 | 58.52 | 60.05 | 1.53 | 3.0 | 4.0 | 0.18 | 11.76 | 3.0 | 9999 | 6535 | 0 | 5.0 | 12 | 10 | 34.00 | 2.0 | |
| 05 SWC 025 | 60.05 | 61.57 | 1.52 | 3.0 | 4.0 | 0.51 | 33.55 | 8.0 | 16 | 11 | 95 | 8.0 | 14 | 10 | 44.00 | 3.0 | massive magnetite |
| 05 SWC 025 | 61.57 | 63.09 | 1.52 | 2.0 | 2.0 | 0.37 | 24.34 | 3.0 | 12 | 8 | 127 | 8.0 | 12 | 10 | 35.00 | 2.0 | |
| 05 SWC 025 | 63.09 | 64.62 | 1.53 | 2.0 | 2.0 | 0.13 | 8.50 | 3.0 | 14 | 9 | 109 | 8.0 | 12 | 10 | 35.00 | 2.0 | visible malachite on joint walls |

| | | | | | | RQD | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | Length (m) | % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
| 05 SWC 025 | 64.62 | 65.53 | 0.91 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | very broken up |
| 05 SWC 025 | 65.53 | 66.45 | 0.92 | 2.5 | 4.0 | 0.12 | 13.04 | 3.0 | 9999 | 10868 | 0 | 5.0 | 12 | 10 | 34.00 | 2.0 | very broken up |
| 05 SWC 025 | 66.45 | 67.67 | 1.22 | 1.5 | 2.0 | 0.35 | 28.69 | 8.0 | 10 | 8 | 122 | 8.0 | 12 | 10 | 40.00 | 2.0 | |
| 05 SWC 025 | 67.67 | 68.28 | 0.61 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 6 | 10 | 102 | 8.0 | 12 | 10 | 32.00 | 2.0 | |
| 05 SWC 025 | 68.28 | 68.58 | 0.30 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 9999 | 33330 | 0 | 5.0 | 12 | 10 | 29.00 | 2.0 | very broken up |
| 05 SWC 025 | 68.58 | 69.49 | 0.91 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 5 | 5 | 182 | 8.0 | 12 | 10 | 31.00 | 2.0 | |
| 05 SWC 025 | 69.49 | 70.41 | 0.92 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 6 | 7 | 153 | 8.0 | 12 | 10 | 32.00 | 2.0 | broken up run |
| 05 SWC 025 | 70.41 | 71.02 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 11 | 18 | 55 | 5.0 | 12 | 10 | 31.00 | 2.0 | |
| 05 SWC 025 | 71.02 | 72.24 | 1.22 | 3.0 | 4.0 | 0.12 | 9.84 | 3.0 | 7 | 6 | 174 | 8.0 | 12 | 10 | 37.00 | 2.0 | |
| 05 SWC 025 | 72.24 | 73.76 | 1.52 | 3.0 | 4.0 | 0.33 | 21.71 | 3.0 | 14 | 9 | 109 | 8.0 | 12 | 10 | 37.00 | 2.0 | broken up run |
| 05 SWC 025 | 73.76 | 74.98 | 1.22 | 3.0 | 4.0 | 0.29 | 23.77 | 3.0 | 11 | 9 | 111 | 8.0 | 12 | 10 | 37.00 | 2.0 | |
| 05 SWC 025 | 74.98 | 75.59 | 0.61 | 2.5 | 4.0 | 0.13 | 21.31 | 3.0 | 2 | 3 | 305 | 10.0 | 12 | 10 | 39.00 | 2.0 | |
| 05 SWC 025 | 75.59 | 76.81 | 1.22 | 2.5 | 4.0 | 0.23 | 18.85 | 3.0 | 7 | 6 | 174 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05 SWC 025 | 76.81 | 77.42 | 0.61 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 2 | 3 | 305 | 10.0 | 12 | 10 | 34.00 | 2.0 | very broken up |
| 05 SWC 025 | 77.42 | 78.33 | 0.91 | 2.5 | 4.0 | 0.13 | 14.29 | 3.0 | 8 | 9 | 114 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05 SWC 025 | 78.33 | 79.86 | 1.53 | 3.0 | 4.0 | 0.29 | 18.95 | 3.0 | 12 | 8 | 128 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05 SWC 025 | 79.86 | 81.38 | 1.52 | 3.0 | 4.0 | 0.45 | 29.61 | 8.0 | 11 | 7 | 138 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 025 | 81.38 | 82.91 | 1.53 | 3.0 | 4.0 | 0.90 | 58.82 | 13.0 | 13 | 8 | 118 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 025 | 82.91 | 84.43 | 1.52 | 3.0 | 4.0 | 0.54 | 35.53 | 8.0 | 15 | 10 | 101 | 8.0 | 14 | 10 | 44.00 | 3.0 | E.O.H |
| 05 SWC 022 | 0 | 46.33 | 46.33 | | 0.0 | | | 0.0 | 9999 | 216 | 5 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN NOTHING RECOVERED |
| 05 SWC 022 | 46.33 | 47.85 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 0 | 10 | 19.00 | 1.0 | |
| 05 SWC 022 | 47.85 | 51.82 | 3.97 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | 9999 | 2519 | 0 | 5.0 | 0 | 10 | 15.00 | 1.0 | MOSTLY SAND (CASING DEPTH) |
| 05 SWC 022 | 51.82 | 52.73 | 0.91 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 0 | 10 | 15.00 | 1.0 | BITS OF GROUND UP ROCK |
| 05 SWC 022 | 52.73 | 54.52 | 1.79 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 9999 | 5586 | 0 | 5.0 | 0 | 10 | 17.00 | 1.0 | |
| 05 SWC 022 | 54.52 | 55.78 | 1.26 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 9999 | 7936 | 0 | 5.0 | 0 | 10 | 17.00 | 1.0 | |
| 05 SWC 022 | 55.78 | 57.30 | 1.52 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 0 | 10 | 17.00 | 1.0 | |
| 05 SWC 022 | 57.30 | 58.83 | 1.53 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | |
| 05 SWC 022 | 58.83 | 60.35 | 1.52 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | |
| 05 SWC 022 | 60.35 | 61.87 | 1.52 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | |
| 05 SWC 022 | 61.87 | 63.09 | 1.22 | 2.0 | 2.0 | 0.24 | 19.67 | 3.0 | 11 | 9 | 111 | 8.0 | 14 | 10 | 37.00 | 2.0 | |
| 05 SWC 022 | 63.09 | 64.62 | 1.53 | 2.5 | 4.0 | 0.80 | 52.29 | 13.0 | 14 | 9 | 109 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 022 | 64.62 | 65.53 | 0.91 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9 | 10 | 101 | 8.0 | 14 | 10 | 36.00 | 2.0 | VERY BROKEN UP INTERVAL |
| 05 SWC 022 | 65.53 | 67.06 | 1.53 | 2.5 | 4.0 | 0.12 | 7.84 | 3.0 | 2 | 1 | 765 | 16.0 | 14 | 10 | 47.00 | 3.0 | |
| 05 SWC 022 | 67.06 | 67.47 | 0.41 | 3.0 | 4.0 | 0.16 | 39.02 | 8.0 | 9999 | 24388 | 0 | 5.0 | 14 | 10 | 41.00 | 3.0 | |
| 05 SWC 022 | 67.47 | 69.19 | 1.72 | 3.0 | 4.0 | 0.59 | 34.30 | 8.0 | 6 | 3 | 287 | 10.0 | 14 | 10 | 46.00 | 3.0 | |
| 05 SWC 022 | 69.19 | 70.71 | 1.52 | 3.0 | 4.0 | 1.47 | 96.71 | 20.0 | 8 | 5 | 190 | 8.0 | 14 | 10 | 56.00 | 3.0 | |
| 05 SWC 022 | 70.71 | 72.24 | 1.53 | 2.5 | 4.0 | 0.80 | 52.29 | 13.0 | 19 | 12 | 81 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 022 | 72.24 | 72.54 | 0.30 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 5 | 17 | 60 | 8.0 | 14 | 10 | 36.00 | 2.0 | VISIBLE MALACHITE (BROKEN UP INTERVAL) |
| 05 SWC 022 | 72.54 | 74.07 | 1.53 | 2.5 | 4.0 | 0.11 | 7.19 | 3.0 | 10 | 7 | 153 | 8.0 | 0 | 10 | 25.00 | 2.0 | VERY BROKEN UP INTERVAL |
| 05 SWC 022 | 74.07 | 75.59 | 1.52 | 2.5 | 4.0 | 0.11 | 7.24 | 3.0 | 20 | 13 | 76 | 8.0 | 13 | 10 | 38.00 | 2.0 | very broken up interval ( malachite on joint walls) |
| 05 SWC 022 | 75.59 | 77.11 | 1.52 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 22 | 14 | 69 | 8.0 | 14 | 10 | 36.00 | 2.0 | VERY BROKEN UP INTERVAL |
| 05 SWC 022 | 77.11 | 78.64 | 1.53 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 13 | 8 | 118 | 8.0 | 14 | 10 | 36.00 | 2.0 | VERY BROKEN UP INTERVAL |
| 05 SWC 022 | 78.64 | 80.16 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 23 | 15 | 66 | 8.0 | 14 | 10 | 36.00 | 2.0 | VERY BROKEN UP INTERVAL |
| 05 SWC 022 | 80.16 | 81.69 | 1.53 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 15 | 10 | 102 | 8.0 | 14 | 10 | 36.00 | 2.0 | very broken up interval ( malachite on joint walls) |
| 05 SWC 022 | 81.69 | 83.21 | 1.52 | 3.0 | 4.0 | 0.55 | 36.18 | 8.0 | 11 | 7 | 138 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 022 | 83.21 | 84.73 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 17 | 11 | 89 | 8.0 | 16 | 10 | 38.00 | 2.0 | |
| 05 SWC 022 | 84.73 | 86.26 | 1.53 | 3.0 | 4.0 | 0.37 | 24.18 | 3.0 | 12 | 8 | 128 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05 SWC 022 | 86.26 | 87.78 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | 14 | 10 | 33.00 | 2.0 | VERY BROKEN UP INTERVAL |
| 05 SWC 022 | 87.78 | 89.31 | 1.53 | 3.0 | 4.0 | 0.43 | 28.10 | 8.0 | 20 | 13 | 77 | 8.0 | 14 | 10 | 44.00 | 3.0 | BROKEN INTERVAL |
| 05 SWC 022 | 89.31 | 90.83 | 1.52 | 3.0 | 4.0 | 0.45 | 29.61 | 8.0 | 17 | 11 | 89 | 8.0 | 14 | 10 | 44.00 | 3.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 SWC 022 | 90.83 | 92.35 | 1.52 | 3.0 | 4.0 | 0.67 | 44.08 | 8.0 | 13 | 9 | 117 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 022 | 92.35 | 93.88 | 1.53 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 14 | 9 | 109 | 8.0 | 14 | 10 | 36.00 | 2.0 | VERY BROKEN UP INTERVAL |
| 05 SWC 022 | 93.88 | 95.40 | 1.52 | 3.0 | 4.0 | 0.38 | 25.00 | 3.0 | 16 | 11 | 95 | 8.0 | 14 | 10 | 39.00 | 2.0 | VERY BROKEN UP INTERVAL |
| 05 SWC 022 | 95.40 | 96.93 | 1.53 | 2.5 | 4.0 | 0.52 | 33.99 | 8.0 | 8 | 5 | 191 | 8.0 | 14 | 10 | 44.00 | 3.0 | BROKEN INTERVAL |
| 05 SWC 022 | 96.93 | 98.45 | 1.52 | 3.0 | 4.0 | 1.19 | 78.29 | 17.0 | 9 | 6 | 169 | 8.0 | 14 | 10 | 53.00 | 3.0 | |
| 05 SWC 022 | 98.45 | 99.97 | 1.52 | 3.0 | 4.0 | 1.03 | 67.76 | 13.0 | 9 | 6 | 169 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 022 | 99.97 | 101.50 | 1.53 | 3.0 | 4.0 | 0.79 | 51.63 | 13.0 | 8 | 5 | 191 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 022 | 101.50 | 103.02 | 1.52 | 3.0 | 4.0 | 1.05 | 69.08 | 13.0 | 11 | 7 | 138 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 022 | 103.02 | 104.55 | 1.53 | 3.0 | 4.0 | 1.33 | 86.93 | 17.0 | 3 | 2 | 510 | 10.0 | 16 | 10 | 57.00 | 3.0 | |
| 05 SWC 022 | 104.55 | 106.07 | 1.52 | 3.0 | 4.0 | 1.46 | 96.05 | 20.0 | 8 | 5 | 190 | 8.0 | 16 | 10 | 58.00 | 3.0 | |
| 05 SWC 022 | 106.07 | 107.29 | 1.22 | 3.0 | 4.0 | 1.34 | 109.84 | 20.0 | 5 | 4 | 244 | 10.0 | 16 | 10 | 60.00 | 3.0 | E.O.H |
| 05 SWC 021 | 0 | 6.10 | 6.10 | | 0.0 | | | 0.0 | 9999 | 1639 | 1 | 5.0 | | 10 | 15.00 | 1.0 | CASING DEPTH |
| 05 SWC 021 | 6.10 | 6.71 | 0.61 | | 0.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 6.71 | 8.23 | 1.52 | | 0.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 8.23 | 9.75 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 9.75 | 11.28 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 11.28 | 12.80 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 12.80 | 14.33 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 14.33 | 15.85 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 15.85 | 17.37 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 17.37 | 18.90 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 18.90 | 20.42 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 20.42 | 21.95 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 21.95 | 23.47 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 23.47 | 24.99 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 24.99 | 26.52 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 26.52 | 28.04 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 28.04 | 29.57 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 29.57 | 31.09 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 31.09 | 32.61 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 32.61 | 34.14 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 34.14 | 35.66 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 35.66 | 38.71 | 3.05 | | 0.0 | | 0.00 | 0.0 | 9999 | 3278 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 38.71 | 40.23 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 40.23 | 41.76 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 41.76 | 43.28 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 43.28 | 44.81 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 44.81 | 46.33 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 46.33 | 47.85 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 47.85 | 49.38 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 49.38 | 50.90 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 50.90 | 53.34 | 2.44 | | 0.0 | | 0.00 | 0.0 | 9999 | 4098 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 53.34 | 54.86 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 54.86 | 55.47 | 0.61 | | 0.0 | | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 55.47 | 56.69 | 1.22 | | 0.0 | | 0.00 | 0.0 | 9999 | 8196 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 56.69 | 58.52 | 1.83 | | 0.0 | | 0.00 | 0.0 | 9999 | 5464 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 58.52 | 60.05 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 60.05 | 61.26 | 1.21 | | 0.0 | | 0.00 | 0.0 | 9999 | 8264 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 61.26 | 62.79 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | OVERBURDEN (NO MEASURMENTS TAKEN) |
| 05 SWC 021 | 62.79 | 64.01 | 1.22 | 4.5 | 12.0 | 0.00 | 0.00 | 0.0 | 9999 | 8196 | 0 | 5.0 | 0 | 10 | 27.00 | 2.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 SWC 021 | 64.01 | 65.53 | 1.52 | 2.5 | 4.0 | 0.40 | 26.32 | 8.0 | 8 | 5 | 190 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 021 | 65.53 | 67.06 | 1.53 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | |
| 05 SWC 021 | 67.06 | 68.58 | 1.52 | 2.5 | 4.0 | 0.13 | 8.55 | 3.0 | 5 | 3 | 304 | 10.0 | 14 | 10 | 41.00 | 3.0 | |
| 05 SWC 021 | 68.58 | 70.71 | 2.13 | 3.0 | 4.0 | 0.47 | 22.07 | 3.0 | 9 | 4 | 237 | 10.0 | 14 | 10 | 41.00 | 3.0 | |
| 05 SWC 021 | 70.71 | 72.24 | 1.53 | 3.0 | 4.0 | 0.15 | 9.80 | 3.0 | 9 | 6 | 170 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05 SWC 021 | 72.24 | 73.76 | 1.52 | 3.0 | 4.0 | 0.39 | 25.66 | 8.0 | 15 | 10 | 101 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 021 | 73.76 | 75.29 | 1.53 | 3.0 | 4.0 | 0.41 | 26.80 | 8.0 | 17 | 11 | 90 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 021 | 75.29 | 76.81 | 1.52 | 3.0 | 4.0 | 0.74 | 48.68 | 8.0 | 14 | 9 | 109 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 021 | 76.81 | 78.33 | 1.52 | 3.0 | 4.0 | 0.84 | 55.26 | 13.0 | 12 | 8 | 127 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 021 | 78.33 | 79.86 | 1.53 | 3.0 | 4.0 | 0.23 | 15.03 | 3.0 | 21 | 14 | 73 | 8.0 | 14 | 10 | 39.00 | 2.0 | VISIBLE MALACHITE ON JOINT WALLS |
| 05 SWC 021 | 79.86 | 81.38 | 1.52 | 3.0 | 4.0 | 0.89 | 58.55 | 13.0 | 19 | 13 | 80 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 021 | 81.38 | 83.82 | 2.44 | 3.0 | 4.0 | 1.12 | 45.90 | 8.0 | 27 | 11 | 90 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 021 | 83.82 | 87.17 | 3.35 | 3.0 | 4.0 | 1.72 | 51.34 | 13.0 | 24 | 7 | 140 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 021 | 87.17 | 90.22 | 3.05 | 3.0 | 4.0 | 2.13 | 69.84 | 13.0 | 16 | 5 | 191 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 021 | 90.22 | 93.27 | 3.05 | 3.0 | 4.0 | 2.72 | 89.18 | 17.0 | 11 | 4 | 277 | 10.0 | 16 | 10 | 57.00 | 3.0 | |
| 05 SWC 021 | 93.27 | 96.01 | 2.74 | 3.0 | 4.0 | 2.23 | 81.39 | 17.0 | 15 | 5 | 183 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 021 | 96.01 | 99.06 | 3.05 | 3.0 | 4.0 | 1.94 | 63.61 | 13.0 | 26 | 9 | 117 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 021 | 99.06 | 99.97 | 0.91 | 3.0 | 4.0 | 0.85 | 93.41 | 20.0 | 3 | 3 | 303 | 10.0 | 16 | 10 | 60.00 | 3.0 | |
| 05 SWC 021 | 99.97 | 102.11 | 2.14 | 3.0 | 4.0 | 1.38 | 64.49 | 13.0 | 9 | 4 | 238 | 10.0 | 16 | 10 | 53.00 | 3.0 | |
| 05 SWC 021 | 102.11 | 104.24 | 2.13 | 3.0 | 4.0 | 1.54 | 72.30 | 13.0 | 10 | 5 | 213 | 10.0 | 14 | 10 | 51.00 | 3.0 | |
| 05 SWC 021 | 104.24 | 106.38 | 2.14 | 3.0 | 4.0 | 1.76 | 82.24 | 17.0 | 12 | 6 | 178 | 8.0 | 14 | 10 | 53.00 | 3.0 | |
| 05 SWC 021 | 106.38 | 108.81 | 2.43 | 3.0 | 4.0 | 1.81 | 74.49 | 13.0 | 10 | 4 | 243 | 10.0 | 14 | 10 | 51.00 | 3.0 | |
| 05 SWC 021 | 108.81 | 110.34 | 1.53 | 3.0 | 4.0 | 1.03 | 67.32 | 13.0 | 11 | 7 | 139 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 021 | 110.34 | 112.47 | 2.13 | 3.0 | 4.0 | 1.69 | 79.34 | 17.0 | 10 | 5 | 213 | 10.0 | 16 | 10 | 57.00 | 3.0 | E.O.H |
| 05 SWC 019 | 0 | 12.19 | 12.19 | | 0.0 | | | 0.0 | 9999 | 820 | 1 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (No measurments taken) |
| 05 SWC 019 | 12.19 | 12.80 | 0.61 | | 0.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (No measurments taken) |
| 05 SWC 019 | 12.80 | 14.33 | 1.53 | | 0.0 | 0.00 | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (No measurments taken) |
| 05 SWC 019 | 14.33 | 15.85 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (No measurments taken) |
| 05 SWC 019 | 15.85 | 17.37 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (No measurments taken) |
| 05 SWC 019 | 17.37 | 18.90 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (No measurments taken) |
| 05 SWC 019 | 18.90 | 20.42 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (No measurments taken) |
| 05 SWC 019 | 20.42 | 21.95 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (No measurments taken) |
| 05 SWC 019 | 21.95 | 24.99 | 3.04 | | 0.0 | | 0.00 | 0.0 | 9999 | 3289 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (No measurments taken) |
| 05 SWC 019 | 24.99 | 26.21 | 1.22 | | 0.0 | | 0.00 | 0.0 | 9999 | 8196 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (No measurments taken) |
| 05 SWC 019 | 26.21 | 27.74 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (No measurments taken) |
| 05 SWC 019 | 27.74 | 29.57 | 1.83 | | 0.0 | | 0.00 | 0.0 | 9999 | 5464 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (No measurments taken) |
| 05 SWC 019 | 29.57 | 31.09 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (No measurments taken) |
| 05 SWC 019 | 31.09 | 32.61 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (No measurments taken) |
| 05 SWC 019 | 32.61 | 34.14 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (No measurments taken) |
| 05 SWC 019 | 34.14 | 36.58 | 2.44 | | 0.0 | | 0.00 | 0.0 | 9999 | 4098 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (No measurments taken) |
| 05 SWC 019 | 36.58 | 38.10 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (No measurments taken) |
| 05 SWC 019 | 38.10 | 44.20 | 6.10 | | 0.0 | | 0.00 | 0.0 | 9999 | 1639 | 1 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (No measurments taken) |
| 05 SWC 019 | 44.20 | 45.72 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (No measurments taken) |
| 05 SWC 019 | 45.72 | 46.94 | 1.22 | 1.0 | 1.0 | 0.15 | 12.30 | 3.0 | 5 | 4 | 244 | 10.0 | 0 | 10 | 24.00 | 2.0 | VERY WEATHERED/ BRITTLE |
| 05 SWC 019 | 46.94 | 47.55 | 0.61 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 2 | 3 | 305 | 10.0 | 0 | 10 | 21.00 | 1.0 | |
| 05 SWC 019 | 47.55 | 49.07 | 1.52 | 2.5 | 4.0 | 0.58 | 38.16 | 8.0 | 14 | 9 | 109 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 019 | 49.07 | 49.99 | 0.92 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 4 | 4 | 230 | 10.0 | 0 | 10 | 24.00 | 2.0 | |
| 05 SWC 019 | 49.99 | 51.21 | 1.22 | 2.5 | 4.0 | 0.12 | 9.84 | 3.0 | 6 | 5 | 203 | 10.0 | 14 | 10 | 41.00 | 3.0 | |
| 05 SWC 019 | 51.21 | 52.43 | 1.22 | 2.5 | 4.0 | 0.12 | 9.84 | 3.0 | 5 | 4 | 244 | 10.0 | 14 | 10 | 41.00 | 3.0 | |
| 05 SWC 019 | 52.43 | 53.64 | 1.21 | 2.5 | 4.0 | 0.13 | 10.74 | 3.0 | 8 | 7 | 151 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 019 | 53.64 | 55.17 | 1.53 | 3.0 | 4.0 | 0.35 | 22.88 | 3.0 | 12 | 8 | 128 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 019 | 55.17 | 56.69 | 1.52 | 3.0 | 4.0 | 0.34 | 22.37 | 3.0 | 10 | 7 | 152 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05 SWC 019 | 56.69 | 58.52 | 1.83 | 3.0 | 4.0 | 0.70 | 38.25 | 8.0 | 13 | 7 | 141 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 019 | 58.52 | 60.05 | 1.53 | 3.0 | 4.0 | 0.45 | 29.41 | 8.0 | 16 | 10 | 96 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 019 | 60.05 | 61.57 | 1.52 | 3.0 | 4.0 | 0.37 | 24.34 | 3.0 | 16 | 11 | 95 | 8.0 | 16 | 10 | 41.00 | 3.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD | | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Length (m) | % | | | | | | | | | | |
| 05 SWC 019 | 61.57 | 63.09 | 1.52 | 3.0 | 4.0 | 1.47 | 96.71 | 20.0 | 4 | 3 | 380 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05 SWC 019 | 63.09 | 64.62 | 1.53 | 3.0 | 4.0 | 1.23 | 80.39 | 17.0 | 9 | 6 | 170 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 019 | 64.62 | 66.14 | 1.52 | 3.0 | 4.0 | 1.26 | 82.89 | 17.0 | 6 | 4 | 253 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 019 | 66.14 | 69.19 | 3.05 | 3.0 | 4.0 | 2.58 | 84.59 | 17.0 | 16 | 5 | 191 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 019 | 69.19 | 72.24 | 3.05 | 3.0 | 4.0 | 1.32 | 43.28 | 8.0 | 20 | 7 | 153 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 019 | 72.24 | 73.76 | 1.52 | 3.0 | 4.0 | 0.36 | 23.68 | 3.0 | 16 | 11 | 95 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 019 | 73.76 | 75.29 | 1.53 | 3.0 | 4.0 | 0.75 | 49.02 | 8.0 | 17 | 11 | 90 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05 SWC 019 | 75.29 | 78.03 | 2.74 | 3.0 | 4.0 | 1.51 | 55.11 | 13.0 | 20 | 7 | 137 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 019 | 78.03 | 81.08 | 3.05 | 3.0 | 4.0 | 1.81 | 59.34 | 13.0 | 21 | 7 | 145 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 019 | 81.08 | 84.12 | 3.04 | 3.0 | 4.0 | 2.28 | 75.00 | 13.0 | 19 | 6 | 160 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 019 | 84.12 | 87.17 | 3.05 | 3.0 | 4.0 | 2.48 | 81.31 | 17.0 | 14 | 5 | 218 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 019 | 87.17 | 90.22 | 3.05 | 3.0 | 4.0 | 2.61 | 85.57 | 17.0 | 13 | 4 | 235 | 10.0 | 16 | 10 | 57.00 | 3.0 | |
| 05 SWC 019 | 90.22 | 93.42 | 3.20 | 3.0 | 4.0 | 2.57 | 80.31 | 17.0 | 16 | 5 | 200 | 8.0 | 18 | 10 | 57.00 | 3.0 | |
| 05 SWC 019 | 93.42 | 96.16 | 2.74 | 3.0 | 4.0 | 2.22 | 81.02 | 17.0 | 14 | 5 | 196 | 8.0 | 16 | 10 | 55.00 | 3.0 | |
| 05 SWC 019 | 96.16 | 97.38 | 1.22 | 3.0 | 4.0 | 0.52 | 42.62 | 8.0 | 10 | 8 | 122 | 8.0 | 12 | 10 | 42.00 | 3.0 | VERY FRACTURED UP ROCK |
| 05 SWC 019 | 97.38 | 99.67 | 2.29 | 3.0 | 4.0 | 1.49 | 65.07 | 13.0 | 14 | 6 | 164 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 019 | 99.67 | 102.72 | 3.05 | 3.0 | 4.0 | 2.30 | 75.41 | 17.0 | 19 | 6 | 161 | 8.0 | 16 | 10 | 55.00 | 3.0 | |
| 05 SWC 019 | 102.72 | 104.55 | 1.83 | 3.0 | 4.0 | 1.06 | 57.92 | 13.0 | 10 | 5 | 183 | 8.0 | 16 | 10 | 51.00 | 3.0 | E.O.H. TOTAL DEPTH 104.55M |
| 05SWC-017 | 0 | 2.65 | 2.65 | | 0.0 | | | 0.0 | 9999 | 3773 | 0 | 5.0 | | 10 | 15.00 | 1.0 | |
| 05SWC-017 | 2.65 | 2.74 | 0.09 | 3.5 | 7.0 | 0.00 | 0.00 | 0.0 | 2 | 22 | 45 | 5.0 | 14.00 | 10 | 36.00 | 2.0 | |
| 05SWC-017 | 2.74 | 3.66 | 0.92 | 3.5 | 7.0 | 0.26 | 28.26 | 8.0 | 6 | 7 | 153 | 8.0 | 14.00 | 10 | 47.00 | 3.0 | |
| 05SWC-017 | 3.66 | 5.18 | 1.52 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 4 | 3 | 380 | 10.0 | 0.00 | 10 | 21.00 | 1.0 | |
| 05SWC-017 | 5.18 | 6.71 | 1.53 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 99 | 65 | 15 | 5.0 | 12.00 | 10 | 29.00 | 2.0 | |
| 05SWC-017 | 6.71 | 8.23 | 1.52 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 99 | 65 | 15 | 5.0 | 0.00 | 10 | 17.00 | 1.0 | |
| 05SWC-017 | 8.23 | 9.75 | 1.52 | 2.0 | 2.0 | 0.82 | 53.95 | 13.0 | 15 | 10 | 101 | 8.0 | 12.00 | 10 | 45.00 | 3.0 | |
| 05SWC-017 | 9.75 | 11.28 | 1.53 | 2.0 | 2.0 | 0.35 | 22.88 | 3.0 | 15 | 10 | 102 | 8.0 | 12.00 | 10 | 35.00 | 2.0 | |
| 05SWC-017 | 11.28 | 12.80 | 1.52 | 2.0 | 2.0 | 0.00 | 0.00 | 0.0 | 99 | 65 | 15 | 5.0 | 0.00 | 10 | 17.00 | 1.0 | |
| 05SWC-017 | 12.80 | 14.02 | 1.22 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 14 | 11 | 87 | 8.0 | 12.00 | 10 | 34.00 | 2.0 | |
| 05SWC-017 | 14.02 | 15.54 | 1.52 | 2.0 | 2.0 | 0.44 | 28.95 | 8.0 | 14 | 9 | 109 | 8.0 | 4.00 | 10 | 32.00 | 2.0 | |
| 05SWC-017 | 15.54 | 17.07 | 1.53 | 2.0 | 2.0 | 0.39 | 25.49 | 8.0 | 17 | 11 | 90 | 8.0 | 12.00 | 10 | 40.00 | 2.0 | |
| 05SWC-017 | 17.07 | 18.74 | 1.67 | 2.0 | 2.0 | 0.75 | 44.91 | 8.0 | 16 | 10 | 104 | 8.0 | 16.00 | 10 | 44.00 | 3.0 | |
| 05SWC-017 | 18.74 | 20.27 | 1.53 | 3.0 | 4.0 | 0.84 | 54.90 | 13.0 | 14 | 9 | 109 | 8.0 | 16.00 | 10 | 51.00 | 3.0 | |
| 05SWC-017 | 20.27 | 21.95 | 1.68 | 3.0 | 4.0 | 0.82 | 48.81 | 8.0 | 12 | 7 | 140 | 8.0 | 16.00 | 10 | 46.00 | 3.0 | |
| 05SWC-017 | 21.95 | 23.47 | 1.52 | 3.0 | 4.0 | 0.74 | 48.68 | 8.0 | 14 | 9 | 109 | 8.0 | 16.00 | 10 | 46.00 | 3.0 | |
| 05SWC-017 | 23.47 | 24.99 | 1.52 | 3.0 | 4.0 | 0.26 | 17.11 | 3.0 | 22 | 14 | 69 | 8.0 | 14.00 | 10 | 39.00 | 2.0 | |
| 05SWC-017 | 24.99 | 26.52 | 1.53 | 3.0 | 4.0 | 0.24 | 15.69 | 3.0 | 15 | 10 | 102 | 8.0 | 12.00 | 10 | 37.00 | 2.0 | |
| 05SWC-017 | 26.52 | 28.04 | 1.52 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 14 | 9 | 109 | 8.0 | 12.00 | 10 | 34.00 | 2.0 | |
| 05SWC-017 | 28.04 | 29.57 | 1.53 | 3.0 | 4.0 | 1.03 | 67.32 | 13.0 | 6 | 4 | 255 | 10.0 | 12.00 | 10 | 49.00 | 3.0 | |
| 05SWC-017 | 29.57 | 31.09 | 1.52 | 3.0 | 4.0 | 0.79 | 51.97 | 13.0 | 10 | 7 | 152 | 8.0 | 14.00 | 10 | 49.00 | 3.0 | |
| 05SWC-017 | 31.09 | 32.61 | 1.52 | 3.0 | 4.0 | 1.19 | 78.29 | 17.0 | 7 | 5 | 217 | 10.0 | 18.00 | 10 | 59.00 | 3.0 | |
| 05SWC-017 | 32.61 | 34.14 | 1.53 | 3.0 | 4.0 | 0.94 | 61.44 | 13.0 | 8 | 5 | 191 | 8.0 | 14.00 | 10 | 49.00 | 3.0 | |
| 05SWC-017 | 34.14 | 35.66 | 1.52 | 3.5 | 7.0 | 1.13 | 74.34 | 13.0 | 10 | 7 | 152 | 8.0 | 16.00 | 10 | 54.00 | 3.0 | |
| 05SWC-017 | 35.66 | 37.19 | 1.53 | 3.5 | 7.0 | 0.94 | 61.44 | 13.0 | 14 | 9 | 109 | 8.0 | 20.00 | 10 | 58.00 | 3.0 | |
| 05SWC-017 | 37.19 | 38.71 | 1.52 | 3.5 | 7.0 | 0.93 | 61.18 | 13.0 | 12 | 8 | 127 | 8.0 | 16.00 | 10 | 54.00 | 3.0 | |
| 05SWC-017 | 38.71 | 40.23 | 1.52 | 4.0 | 7.0 | 0.73 | 48.03 | 8.0 | 10 | 7 | 152 | 8.0 | 12.00 | 10 | 45.00 | 3.0 | |
| 05SWC-017 | 40.23 | 41.76 | 1.53 | 4.0 | 7.0 | 1.32 | 86.27 | 17.0 | 11 | 7 | 139 | 8.0 | 14.00 | 10 | 56.00 | 3.0 | |
| 05SWC-017 | 41.76 | 43.28 | 1.52 | 4.0 | 7.0 | 1.16 | 76.32 | 17.0 | 8 | 5 | 190 | 8.0 | 18.00 | 10 | 60.00 | 3.0 | |
| 05SWC-017 | 43.28 | 44.81 | 1.53 | 4.0 | 7.0 | 1.42 | 92.81 | 20.0 | 7 | 5 | 219 | 10.0 | 18.00 | 10 | 65.00 | 4.0 | |
| 05SWC-017 | 44.81 | 46.33 | 1.52 | 4.0 | 7.0 | 1.42 | 93.42 | 20.0 | 5 | 3 | 304 | 10.0 | 16.00 | 10 | 63.00 | 4.0 | |
| 05SWC-017 | 46.33 | 47.85 | 1.52 | 4.0 | 7.0 | 0.82 | 53.95 | 13.0 | 13 | 9 | 117 | 8.0 | 16.00 | 10 | 54.00 | 3.0 | |
| 05SWC-017 | 47.85 | 49.38 | 1.53 | 4.0 | 7.0 | 0.92 | 60.13 | 13.0 | 15 | 10 | 102 | 8.0 | 16.00 | 10 | 54.00 | 3.0 | |
| 05SWC-017 | 49.38 | 50.90 | 1.52 | 4.0 | 7.0 | 0.72 | 47.37 | 8.0 | 17 | 11 | 89 | 8.0 | 18.00 | 10 | 51.00 | 3.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05SWC-017 | 50.90 | 52.43 | 1.53 | 4.0 | 7.0 | 1.09 | 71.24 | 13.0 | 6 | 4 | 255 | 10.0 | 18.00 | 10 | 58.00 | 3.0 | |
| 05SWC-017 | 52.43 | 53.95 | 1.52 | 4.0 | 7.0 | 0.98 | 64.47 | 13.0 | 15 | 10 | 101 | 8.0 | 20.00 | 10 | 58.00 | 3.0 | |
| 05SWC-017 | 53.95 | 55.47 | 1.52 | 4.0 | 7.0 | 0.92 | 60.53 | 13.0 | 13 | 9 | 117 | 8.0 | 22.00 | 10 | 60.00 | 3.0 | |
| 05SWC-017 | 55.47 | 57.00 | 1.53 | 4.0 | 7.0 | 1.30 | 84.97 | 17.0 | 9 | 6 | 170 | 8.0 | 20.00 | 10 | 62.00 | 4.0 | |
| 05SWC-017 | 57.00 | 58.52 | 1.52 | 4.0 | 7.0 | 1.51 | 99.34 | 20.0 | 5 | 3 | 304 | 10.0 | 22.00 | 10 | 69.00 | 4.0 | |
| 05SWC-017 | 58.52 | 60.05 | 1.53 | 4.0 | 7.0 | 1.41 | 92.16 | 20.0 | 8 | 5 | 191 | 8.0 | 22.00 | 10 | 67.00 | 4.0 | |
| 05SWC-017 | 60.05 | 61.57 | 1.52 | 4.0 | 7.0 | 1.30 | 85.53 | 17.0 | 5 | 3 | 304 | 10.0 | 22.00 | 10 | 66.00 | 4.0 | |
| 05SWC-017 | 61.57 | 63.09 | 1.52 | 4.0 | 7.0 | 1.51 | 99.34 | 20.0 | 3 | 2 | 507 | 10.0 | 22.00 | 10 | 69.00 | 4.0 | |
| 05SWC-017 | 63.09 | 64.62 | 1.53 | 4.0 | 7.0 | 1.45 | 94.77 | 20.0 | 3 | 2 | 510 | 10.0 | 22.00 | 10 | 69.00 | 4.0 | |
| 05SWC-017 | 64.62 | 66.14 | 1.52 | 4.0 | 7.0 | 1.32 | 86.84 | 17.0 | 4 | 3 | 380 | 10.0 | 22.00 | 10 | 66.00 | 4.0 | |
| 05SWC-017 | 66.14 | 67.67 | 1.53 | 4.0 | 7.0 | 1.18 | 77.12 | 17.0 | 6 | 4 | 255 | 10.0 | 22.00 | 10 | 66.00 | 4.0 | |
| 05SWC-017 | 67.67 | 69.19 | 1.52 | 4.0 | 7.0 | 1.57 | 103.29 | 20.0 | 7 | 5 | 217 | 10.0 | 24.00 | 10 | 71.00 | 4.0 | |
| 05SWC-017 | 69.19 | 70.71 | 1.52 | 4.0 | 7.0 | 1.26 | 82.89 | 17.0 | 9 | 6 | 169 | 8.0 | 22.00 | 10 | 64.00 | 4.0 | |
| 05SWC-017 | 70.71 | 72.24 | 1.53 | 4.0 | 7.0 | 1.26 | 82.35 | 17.0 | 8 | 5 | 191 | 8.0 | 24.00 | 10 | 66.00 | 4.0 | |
| 05SWC-017 | 72.24 | 73.76 | 1.52 | 4.0 | 7.0 | 1.34 | 88.16 | 17.0 | 10 | 7 | 152 | 8.0 | 20.00 | 10 | 62.00 | 4.0 | |
| 05SWC-017 | 73.76 | 75.29 | 1.53 | 4.0 | 7.0 | 0.87 | 56.86 | 13.0 | 13 | 8 | 118 | 8.0 | 22.00 | 10 | 60.00 | 3.0 | |
| 05SWC-017 | 75.29 | 76.81 | 1.52 | 4.0 | 7.0 | 0.88 | 57.89 | 13.0 | 11 | 7 | 138 | 8.0 | 22.00 | 10 | 60.00 | 3.0 | |
| 05SWC-017 | 76.81 | 78.33 | 1.52 | 4.0 | 7.0 | 0.50 | 32.89 | 8.0 | 17 | 11 | 89 | 8.0 | 22.00 | 10 | 55.00 | 3.0 | |
| 05SWC-017 | 78.33 | 79.86 | 1.53 | 4.0 | 7.0 | 1.30 | 84.97 | 17.0 | 8 | 5 | 191 | 8.0 | 22.00 | 10 | 64.00 | 4.0 | |
| 05SWC-017 | 79.86 | 80.77 | 0.91 | 4.0 | 7.0 | 0.84 | 92.31 | 20.0 | 5 | 5 | 182 | 8.0 | 24.00 | 10 | 69.00 | 4.0 | |
| 05SWC-017 | 80.77 | 82.30 | 1.53 | 4.0 | 7.0 | 0.81 | 52.94 | 13.0 | 16 | 10 | 96 | 8.0 | 22.00 | 10 | 60.00 | 3.0 | |
| 05SWC-017 | 82.30 | 83.62 | 1.32 | 4.0 | 7.0 | 0.66 | 50.00 | 8.0 | 12 | 9 | 110 | 8.0 | 22.00 | 10 | 55.00 | 3.0 | |
| 05SWC-017 | 83.62 | 85.34 | 1.72 | 4.0 | 7.0 | 1.38 | 80.23 | 17.0 | 10 | 6 | 172 | 8.0 | 24.00 | 10 | 66.00 | 4.0 | |
| 05SWC-017 | 85.34 | 86.87 | 1.53 | 4.0 | 7.0 | 1.49 | 97.39 | 20.0 | 3 | 2 | 510 | 10.0 | 22.00 | 10 | 69.00 | 4.0 | |
| 05SWC-017 | 86.87 | 88.70 | 1.83 | 4.0 | 7.0 | 1.38 | 75.41 | 17.0 | 3 | 2 | 610 | 16.0 | 22.00 | 10 | 72.00 | 4.0 | |
| 05SWC-017 | 88.70 | 90.22 | 1.52 | 4.0 | 7.0 | 0.91 | 59.87 | 13.0 | 10 | 7 | 152 | 8.0 | 22.00 | 10 | 60.00 | 3.0 | |
| 05SWC-017 | 90.22 | 91.74 | 1.52 | 4.0 | 7.0 | 1.15 | 75.66 | 17.0 | 9 | 6 | 169 | 8.0 | 22.00 | 10 | 64.00 | 4.0 | END OF HOLE 05SWC-017 |
| 05 SWC 018 | 0 | 6.50 | 6.50 | | 0.0 | | | 0.0 | 9999 | 1538 | 1 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 6.50 | 6.71 | 0.21 | | 0.0 | 0.00 | 0.00 | 0.0 | 9999 | 47614 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 6.71 | 8.23 | 1.52 | | 0.0 | 0.00 | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 8.23 | 13.41 | 5.18 | | 0.0 | | 0.00 | 0.0 | 9999 | 1930 | 1 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 13.41 | 14.94 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 14.94 | 15.85 | 0.91 | | 0.0 | | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 15.85 | 18.90 | 3.05 | | 0.0 | | 0.00 | 0.0 | 9999 | 3278 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 18.90 | 21.95 | 3.05 | | 0.0 | | 0.00 | 0.0 | 9999 | 3278 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 21.95 | 22.86 | 0.91 | | 0.0 | | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 22.86 | 24.08 | 1.22 | | 0.0 | | 0.00 | 0.0 | 9999 | 8196 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 24.08 | 24.99 | 0.91 | | 0.0 | | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 24.99 | 26.52 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 26.52 | 28.04 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 28.04 | 29.57 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 29.57 | 31.09 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 31.09 | 32.61 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 32.61 | 34.14 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 34.14 | 35.66 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 35.66 | 37.19 | 1.53 | | 0.0 | | 0.00 | 0.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 37.19 | 38.71 | 1.52 | | 0.0 | | 0.00 | 0.0 | 9999 | 6578 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 38.71 | 39.32 | 0.61 | | 0.0 | | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | | 10 | 15.00 | 1.0 | Overburden (no measurments taken) |
| 05 SWC 018 | 39.32 | 40.54 | 1.22 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 8 | 7 | 153 | 8.0 | 12 | 10 | 31.00 | 2.0 | |
| 05 SWC 018 | 40.54 | 41.45 | 0.91 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 1 | 1 | 910 | 16.0 | 12 | 10 | 39.00 | 2.0 | |
| 05 SWC 018 | 41.45 | 41.76 | 0.31 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 32255 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | |
| 05 SWC 018 | 41.76 | 42.37 | 0.61 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | |
| 05 SWC 018 | 42.37 | 42.98 | 0.61 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | |
| 05 SWC 018 | 42.98 | 44.20 | 1.22 | 0.5 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 8196 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05 SWC 018 | 44.20 | 45.42 | 1.22 | 0.5 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 8196 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | |
| 05 SWC 018 | 45.42 | 46.33 | 0.91 | 0.5 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | |
| 05 SWC 018 | 46.33 | 47.85 | 1.52 | 0.5 | 1.0 | 0.00 | 0.00 | 0.0 | 1 | 1 | 1520 | 16.0 | 0 | 10 | 27.00 | 2.0 | |
| 05 SWC 018 | 47.85 | 49.07 | 1.22 | 0.5 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 8196 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | |
| 05 SWC 018 | 49.07 | 50.90 | 1.83 | 0.0 | 0.0 | 0.00 | 0.00 | 0.0 | 9999 | 5464 | 0 | 5.0 | 0 | 10 | 15.00 | 1.0 | |
| 05 SWC 018 | 50.90 | 51.51 | 0.61 | 1.0 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | |
| 05 SWC 018 | 51.51 | 53.34 | 1.83 | 0.5 | 1.0 | 0.00 | 0.00 | 0.0 | 9999 | 5464 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | |
| 05 SWC 018 | 53.34 | 55.47 | 2.13 | 6.0 | 17.0 | 0.42 | 19.72 | 3.0 | 15 | 7 | 142 | 8.0 | 0 | 10 | 38.00 | 2.0 | |
| 05 SWC 018 | 55.47 | 57.00 | 1.53 | 0.5 | 1.0 | 0.12 | 7.84 | 3.0 | 5 | 3 | 306 | 10.0 | 6 | 10 | 30.00 | 2.0 | |
| 05 SWC 018 | 57.00 | 58.52 | 1.52 | 0.5 | 1.0 | 0.00 | 0.00 | 0.0 | 3 | 2 | 507 | 10.0 | 0 | 10 | 21.00 | 1.0 | |
| 05 SWC 018 | 58.52 | 59.13 | 0.61 | 1.0 | 1.0 | 0.15 | 24.59 | 3.0 | 1 | 2 | 610 | 16.0 | 0 | 10 | 30.00 | 2.0 | |
| 05 SWC 018 | 59.13 | 60.96 | 1.83 | 1.0 | 1.0 | 0.43 | 23.50 | 3.0 | 3 | 2 | 610 | 16.0 | 0 | 10 | 30.00 | 2.0 | |
| 05 SWC 018 | 60.96 | 61.87 | 0.91 | 1.0 | 1.0 | 0.13 | 14.29 | 3.0 | 4 | 4 | 227 | 10.0 | 20 | 10 | 44.00 | 3.0 | |
| 05 SWC 018 | 61.87 | 63.40 | 1.53 | 1.0 | 1.0 | 0.11 | 7.19 | 3.0 | 2 | 1 | 765 | 16.0 | 17 | 10 | 47.00 | 3.0 | |
| 05 SWC 018 | 63.40 | 64.62 | 1.22 | 1.0 | 1.0 | 0.13 | 10.66 | 3.0 | 11 | 9 | 111 | 8.0 | 6 | 10 | 28.00 | 2.0 | |
| 05 SWC 018 | 64.62 | 66.14 | 1.52 | 1.0 | 1.0 | 0.77 | 50.66 | 13.0 | 5 | 3 | 304 | 10.0 | 6 | 10 | 40.00 | 2.0 | |
| 05 SWC 018 | 66.14 | 67.67 | 1.53 | 1.0 | 1.0 | 0.86 | 56.21 | 13.0 | 7 | 5 | 219 | 10.0 | 6 | 10 | 40.00 | 2.0 | |
| 05 SWC 018 | 67.67 | 69.19 | 1.52 | 3.5 | 7.0 | 1.21 | 79.61 | 17.0 | 11 | 7 | 138 | 8.0 | 16 | 10 | 58.00 | 3.0 | |
| 05 SWC 018 | 69.19 | 70.71 | 1.52 | 3.0 | 4.0 | 0.65 | 42.76 | 8.0 | 13 | 9 | 117 | 8.0 | 6 | 10 | 36.00 | 2.0 | |
| 05 SWC 018 | 70.71 | 71.63 | 0.92 | 3.0 | 4.0 | 0.43 | 46.74 | 8.0 | 9 | 10 | 102 | 8.0 | 6 | 10 | 36.00 | 2.0 | |
| 05 SWC 018 | 71.63 | 73.15 | 1.52 | 3.0 | 4.0 | 0.73 | 48.03 | 8.0 | 16 | 11 | 95 | 8.0 | 6 | 10 | 36.00 | 2.0 | |
| 05 SWC 018 | 73.15 | 74.68 | 1.53 | 3.0 | 4.0 | 1.25 | 81.70 | 17.0 | 6 | 4 | 255 | 10.0 | 10 | 10 | 51.00 | 3.0 | |
| 05 SWC 018 | 74.68 | 76.81 | 2.13 | 3.0 | 4.0 | 0.56 | 26.29 | 8.0 | 30 | 14 | 71 | 8.0 | 10 | 10 | 40.00 | 2.0 | |
| 05 SWC 018 | 76.81 | 78.33 | 1.52 | 3.0 | 4.0 | 0.91 | 59.87 | 13.0 | 13 | 9 | 117 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 018 | 78.33 | 79.86 | 1.53 | 3.0 | 4.0 | 0.35 | 22.88 | 3.0 | 15 | 10 | 102 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05 SWC 018 | 79.86 | 81.38 | 1.52 | 3.0 | 4.0 | 1.07 | 70.39 | 13.0 | 9 | 6 | 169 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 018 | 81.38 | 82.91 | 1.53 | 3.0 | 4.0 | 1.03 | 67.32 | 13.0 | 12 | 8 | 128 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05 SWC 018 | 82.91 | 84.43 | 1.52 | 3.0 | 4.0 | 1.02 | 67.11 | 13.0 | 15 | 10 | 101 | 8.0 | 6 | 10 | 41.00 | 3.0 | |
| 05 SWC 018 | 84.43 | 85.95 | 1.52 | 3.5 | 7.0 | 0.75 | 49.34 | 8.0 | 15 | 10 | 101 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05 SWC 018 | 85.95 | 87.48 | 1.53 | 3.5 | 7.0 | 0.39 | 25.49 | 8.0 | 23 | 15 | 67 | 8.0 | 20 | 10 | 53.00 | 3.0 | |
| 05 SWC 018 | 87.48 | 88.39 | 0.91 | 4.0 | 7.0 | 0.25 | 27.47 | 8.0 | 8 | 9 | 114 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05 SWC 018 | 88.39 | 89.31 | 0.92 | 4.0 | 7.0 | 0.28 | 30.43 | 8.0 | 6 | 7 | 153 | 8.0 | 14 | 10 | 47.00 | 3.0 | |
| 05 SWC 018 | 89.31 | 91.14 | 1.83 | 3.0 | 4.0 | 0.50 | 27.32 | 8.0 | 22 | 12 | 83 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05 SWC 018 | 91.14 | 92.96 | 1.82 | 3.0 | 4.0 | 0.30 | 16.48 | 3.0 | 4 | 2 | 455 | 10.0 | 6 | 10 | 33.00 | 2.0 | |
| 05 SWC 018 | 92.96 | 93.27 | 0.31 | 3.0 | 4.0 | 0.12 | 38.71 | 8.0 | 1 | 3 | 310 | 10.0 | 16 | 10 | 48.00 | 3.0 | |
| 05 SWC 018 | 93.27 | 95.71 | 2.44 | 4.0 | 7.0 | 1.22 | 50.00 | 8.0 | 26 | 11 | 94 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05 SWC 018 | 95.71 | 98.76 | 3.05 | 3.0 | 4.0 | 1.25 | 40.98 | 8.0 | 25 | 8 | 122 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 018 | 98.76 | 101.50 | 2.74 | 3.0 | 4.0 | 1.46 | 53.28 | 13.0 | 17 | 6 | 161 | 8.0 | 6 | 10 | 41.00 | 3.0 | |
| 05 SWC 018 | 101.50 | 103.94 | 2.44 | 3.0 | 4.0 | 1.14 | 46.72 | 8.0 | 16 | 7 | 153 | 8.0 | 12 | 10 | 42.00 | 3.0 | |
| 05 SWC 018 | 103.94 | 104.85 | 0.91 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 8 | 9 | 114 | 8.0 | 6 | 10 | 28.00 | 2.0 | |
| 05 SWC 018 | 104.85 | 105.77 | 0.92 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 4 | 4 | 230 | 10.0 | 12 | 10 | 36.00 | 2.0 | |
| 05 SWC 018 | 105.77 | 106.98 | 1.21 | 3.0 | 4.0 | 0.45 | 37.19 | 8.0 | 7 | 6 | 173 | 8.0 | 6 | 10 | 36.00 | 2.0 | |
| 05 SWC 018 | 106.98 | 108.81 | 1.83 | 3.0 | 4.0 | 0.85 | 46.45 | 8.0 | 17 | 9 | 108 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 018 | 108.81 | 111.25 | 2.44 | 3.0 | 4.0 | 1.01 | 41.39 | 8.0 | 23 | 9 | 106 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 018 | 111.25 | 114.30 | 3.05 | 3.0 | 4.0 | 1.89 | 61.97 | 13.0 | 24 | 8 | 127 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 018 | 114.30 | 117.35 | 3.05 | 3.0 | 4.0 | 1.99 | 65.25 | 13.0 | 23 | 8 | 133 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 018 | 117.35 | 120.40 | 3.05 | 3.0 | 4.0 | 2.50 | 81.97 | 17.0 | 15 | 5 | 203 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05 SWC 018 | 120.40 | 123.44 | 3.04 | 3.0 | 4.0 | 2.20 | 72.37 | 13.0 | 18 | 6 | 169 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05 SWC 018 | 123.44 | 126.49 | 3.05 | 3.5 | 7.0 | 1.73 | 56.72 | 13.0 | 22 | 7 | 139 | 8.0 | 16 | 10 | 54.00 | 3.0 | |
| 05 SWC 018 | 126.49 | 128.63 | 2.14 | 3.0 | 4.0 | 1.18 | 55.14 | 13.0 | 16 | 7 | 134 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 018 | 128.63 | 129.24 | 0.61 | 3.0 | 4.0 | 0.23 | 37.70 | 8.0 | 5 | 8 | 122 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05 SWC 018 | 129.24 | 132.28 | 3.04 | 3.0 | 4.0 | 1.83 | 60.20 | 13.0 | 21 | 7 | 145 | 8.0 | 12 | 10 | 47.00 | 3.0 | |
| 05 SWC 018 | 132.28 | 133.20 | 0.92 | 3.0 | 4.0 | 0.53 | 57.61 | 13.0 | 7 | 8 | 131 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05 SWC 018 | 133.20 | 135.33 | 2.13 | 3.0 | 4.0 | 0.77 | 36.15 | 8.0 | 18 | 8 | 118 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 018 | 135.33 | 137.77 | 2.44 | 3.0 | 4.0 | 1.59 | 65.16 | 13.0 | 20 | 8 | 122 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05 SWC 018 | 137.77 | 140.82 | 3.05 | 3.0 | 4.0 | 1.02 | 33.44 | 8.0 | 29 | 10 | 105 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05 SWC 018 | 140.82 | 142.34 | 1.52 | 3.0 | 4.0 | 0.57 | 37.50 | 8.0 | 12 | 8 | 127 | 8.0 | 18 | 10 | 48.00 | 3.0 | E.O.H. 05 SWC 018 |
| 05SWC-015 | 0 | 6.40 | 6.40 | | 0.0 | | | 0.0 | 9999 | 1562 | 1 | 5.0 | | 10 | 15.00 | 1.0 | |
| 05SWC-015 | 6.40 | 7.01 | 0.61 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 16392 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD | | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Length (m) | % | | | | | | | | | | |
| 05SWC-015 | 7.01 | 8.84 | 1.83 | 3.5 | 7.0 | 0.23 | 12.57 | 3.0 | 25 | 14 | 73 | 8.0 | 12 | 10 | 40.00 | 2.0 | |
| 05SWC-015 | 8.84 | 9.75 | 0.91 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | |
| 05SWC-015 | 9.75 | 10.97 | 1.22 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 8196 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | |
| 05SWC-015 | 10.97 | 11.28 | 0.31 | - | 17.0 | 0.00 | 0.00 | 0.0 | 9999 | 32255 | 0 | 5.0 | 0 | 10 | 32.00 | 2.0 | |
| 05SWC-015 | 11.28 | 11.58 | 0.30 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 33330 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | |
| 05SWC-015 | 11.58 | 11.89 | 0.31 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 32255 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | |
| 05SWC-015 | 11.89 | 12.80 | 0.91 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10988 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | |
| 05SWC-015 | 12.80 | 14.33 | 1.53 | 2.5 | 4.0 | 0.41 | 26.80 | 8.0 | 23 | 15 | 67 | 8.0 | 12 | 10 | 42.00 | 3.0 | |
| 05SWC-015 | 14.33 | 15.24 | 0.91 | 3.0 | 4.0 | 0.15 | 16.48 | 3.0 | 15 | 16 | 61 | 8.0 | 12 | 10 | 37.00 | 2.0 | |
| 05SWC-015 | 15.24 | 16.76 | 1.52 | 3.0 | 4.0 | 0.32 | 21.05 | 3.0 | 23 | 15 | 66 | 8.0 | 12 | 10 | 37.00 | 2.0 | |
| 05SWC-015 | 16.76 | 17.83 | 1.07 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 9345 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | |
| 05SWC-015 | 17.83 | 18.90 | 1.07 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 18 | 17 | 59 | 5.0 | 16 | 10 | 35.00 | 2.0 | |
| 05SWC-015 | 18.90 | 20.42 | 1.52 | 4.0 | 7.0 | 0.92 | 60.53 | 13.0 | 12 | 8 | 127 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05SWC-015 | 20.42 | 21.95 | 1.53 | 4.0 | 7.0 | 0.76 | 49.67 | 8.0 | 8 | 5 | 191 | 8.0 | 16 | 10 | 49.00 | 3.0 | |
| 05SWC-015 | 21.95 | 24.08 | 2.13 | 4.0 | 7.0 | 0.90 | 42.25 | 8.0 | 6 | 3 | 355 | 10.0 | 18 | 10 | 53.00 | 3.0 | |
| 05SWC-015 | 24.08 | 24.99 | 0.91 | 4.0 | 7.0 | 0.74 | 81.32 | 17.0 | 5 | 5 | 182 | 8.0 | 18 | 10 | 60.00 | 3.0 | |
| 05SWC-015 | 24.99 | 26.52 | 1.53 | 4.0 | 7.0 | 1.43 | 93.46 | 20.0 | 5 | 3 | 306 | 10.0 | 22 | 10 | 69.00 | 4.0 | |
| 05SWC-015 | 26.52 | 28.04 | 1.52 | 4.0 | 7.0 | 1.19 | 78.29 | 17.0 | 6 | 4 | 253 | 10.0 | 22 | 10 | 66.00 | 4.0 | |
| 05SWC-015 | 28.04 | 29.57 | 1.53 | 4.0 | 7.0 | 1.05 | 68.63 | 13.0 | 13 | 8 | 118 | 8.0 | 22 | 10 | 60.00 | 3.0 | |
| 05SWC-015 | 29.57 | 31.09 | 1.52 | 4.0 | 7.0 | 1.14 | 75.00 | 13.0 | 8 | 5 | 190 | 8.0 | 22 | 10 | 60.00 | 3.0 | |
| 05SWC-015 | 31.09 | 32.61 | 1.52 | 4.0 | 7.0 | 1.50 | 98.68 | 20.0 | 9 | 6 | 169 | 8.0 | 22 | 10 | 67.00 | 4.0 | |
| 05SWC-015 | 32.61 | 34.14 | 1.53 | 4.0 | 7.0 | 0.86 | 56.21 | 13.0 | 12 | 8 | 128 | 8.0 | 20 | 10 | 58.00 | 3.0 | |
| 05SWC-015 | 34.14 | 35.66 | 1.52 | 4.0 | 7.0 | 0.98 | 64.47 | 13.0 | 8 | 5 | 190 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05SWC-015 | 35.66 | 37.19 | 1.53 | 4.0 | 7.0 | 0.77 | 50.33 | 13.0 | 13 | 8 | 118 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05SWC-015 | 37.19 | 38.71 | 1.52 | 4.0 | 7.0 | 0.74 | 48.68 | 8.0 | 15 | 10 | 101 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05SWC-015 | 38.71 | 40.23 | 1.52 | 4.0 | 7.0 | 0.94 | 61.84 | 13.0 | 10 | 7 | 152 | 8.0 | 14 | 10 | 52.00 | 3.0 | |
| 05SWC-015 | 40.23 | 41.76 | 1.53 | 4.0 | 7.0 | 0.68 | 44.44 | 8.0 | 12 | 8 | 128 | 8.0 | 14 | 10 | 47.00 | 3.0 | |
| 05SWC-015 | 41.76 | 43.28 | 1.52 | 4.0 | 7.0 | 1.38 | 90.79 | 20.0 | 5 | 3 | 304 | 10.0 | 16 | 10 | 63.00 | 4.0 | |
| 05SWC-015 | 43.28 | 44.81 | 1.53 | 4.0 | 7.0 | 1.22 | 79.74 | 17.0 | 8 | 5 | 191 | 8.0 | 20 | 10 | 62.00 | 4.0 | |
| 05SWC-015 | 44.81 | 46.33 | 1.52 | 4.5 | 12.0 | 1.42 | 93.42 | 20.0 | 5 | 3 | 304 | 10.0 | 23 | 10 | 75.00 | 4.0 | |
| 05SWC-015 | 46.33 | 47.85 | 1.52 | 4 | 7.0 | 1.34 | 88.16 | 17.0 | 9 | 6 | 169 | 8.0 | 23 | 10 | 65.00 | 4.0 | |
| 05SWC-015 | 47.85 | 49.38 | 1.53 | 4 | 7.0 | 1.10 | 71.90 | 13.0 | 9 | 6 | 170 | 8.0 | 23 | 10 | 61.00 | 4.0 | |
| 05SWC-015 | 49.38 | 50.90 | 1.52 | 4.0 | 7.0 | 1.03 | 67.76 | 13.0 | 6 | 4 | 253 | 10.0 | 23 | 10 | 63.00 | 4.0 | |
| 05SWC-015 | 50.90 | 52.43 | 1.53 | 4.0 | 7.0 | 1.07 | 69.93 | 13.0 | 5 | 3 | 306 | 10.0 | 20 | 10 | 60.00 | 3.0 | |
| 05SWC-015 | 52.43 | 53.95 | 1.52 | 4.0 | 7.0 | 1.55 | 101.97 | 20.0 | 6 | 4 | 253 | 10.0 | 22 | 10 | 69.00 | 4.0 | |
| 05SWC-015 | 53.95 | 55.47 | 1.52 | 4.0 | 7.0 | 1.42 | 93.42 | 20.0 | 6 | 4 | 253 | 10.0 | 20 | 10 | 67.00 | 4.0 | |
| 05SWC-015 | 55.47 | 57.00 | 1.53 | 4.0 | 7.0 | 1.43 | 93.46 | 20.0 | 7 | 5 | 219 | 10.0 | 20 | 10 | 67.00 | 4.0 | |
| 05SWC-015 | 57.00 | 58.52 | 1.52 | 4.0 | 7.0 | 1.08 | 71.05 | 13.0 | 4 | 3 | 380 | 10.0 | 22.0 | 10 | 62.00 | 4.0 | |
| 05SWC-015 | 58.52 | 60.05 | 1.53 | 4.0 | 7.0 | 1.54 | 100.65 | 20.0 | 12 | 8 | 128 | 8.0 | 22.0 | 10 | 67.00 | 4.0 | |
| 05SWC-015 | 60.05 | 61.57 | 1.52 | 4.0 | 7.0 | 0.90 | 59.21 | 13.0 | 6 | 4 | 253 | 10.0 | 22.0 | 10 | 62.00 | 4.0 | |
| 05SWC-015 | 61.57 | 63.09 | 1.52 | 4.5 | 12.0 | 1.41 | 92.76 | 20.0 | 4 | 3 | 380 | 10.0 | 22.0 | 10 | 74.00 | 4.0 | |
| 05SWC-015 | 63.09 | 64.62 | 1.53 | 4.5 | 12.0 | 0.88 | 57.52 | 13.0 | 10 | 7 | 153 | 8.0 | 22.0 | 10 | 65.00 | 4.0 | |
| 05SWC-015 | 64.62 | 66.14 | 1.52 | 4.5 | 12.0 | 1.37 | 90.13 | 20.0 | 2 | 1 | 760 | 16.0 | 22.0 | 10 | 80.00 | 4.0 | |
| 05SWC-015 | 66.14 | 67.67 | 1.53 | 4.5 | 12.0 | 1.40 | 91.50 | 20.0 | 3 | 2 | 510 | 10.0 | 22.0 | 10 | 74.00 | 4.0 | |
| 05SWC-015 | 67.67 | 69.19 | 1.52 | 4.0 | 7.0 | 1.50 | 98.68 | 20.0 | 1 | 1 | 1520 | 16.0 | 22.0 | 10 | 75.00 | 4.0 | |
| 05SWC-015 | 69.19 | 70.71 | 1.52 | 3.5 | 7.0 | 1.20 | 78.95 | 17.0 | 4 | 3 | 380 | 10.0 | 22.0 | 10 | 66.00 | 4.0 | |
| 05SWC-015 | 70.71 | 72.24 | 1.53 | 3.5 | 7.0 | 1.47 | 96.08 | 20.0 | 4 | 3 | 383 | 10.0 | 20.0 | 10 | 67.00 | 4.0 | |
| 05SWC-015 | 72.24 | 73.76 | 1.52 | 3.5 | 7.0 | 0.40 | 26.32 | 8.0 | 20 | 13 | 76 | 8.0 | 20.0 | 10 | 53.00 | 3.0 | |
| 05SWC-015 | 73.76 | 74.37 | 0.61 | 3.5 | 7.0 | 0.00 | 0.00 | 0.0 | 10 | 16 | 61 | 8.0 | 20.0 | 10 | 45.00 | 3.0 | |
| 05SWC-015 | 74.37 | 75.90 | 1.53 | 3.5 | 7.0 | 0.74 | 48.37 | 8.0 | 13 | 8 | 118 | 8.0 | 20.0 | 10 | 53.00 | 3.0 | |
| 05SWC-015 | 75.90 | 76.81 | 0.91 | 4.0 | 7.0 | 0.73 | 80.22 | 17.0 | 5 | 5 | 182 | 8.0 | 20.0 | 10 | 62.00 | 4.0 | |
| 05SWC-015 | 76.81 | 78.33 | 1.52 | 4.0 | 7.0 | 1.15 | 75.66 | 17.0 | 4 | 3 | 380 | 10.0 | 20.0 | 10 | 64.00 | 4.0 | |
| 05SWC-015 | 78.33 | 79.86 | 1.53 | 4.0 | 7.0 | 1.45 | 94.77 | 20.0 | 5 | 3 | 306 | 10.0 | 22.0 | 10 | 69.00 | 4.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD | | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Length (m) | % | | | | | | | | | | |
| 05SWC-015 | 79.86 | 81.38 | 1.52 | 3.5 | 7.0 | 1.27 | 83.55 | 17.0 | 7 | 5 | 217 | 10.0 | 20.0 | 10 | 64.00 | 4.0 | |
| 05SWC-015 | 81.38 | 82.91 | 1.53 | 3.5 | 7.0 | 1.22 | 79.74 | 17.0 | 7 | 5 | 219 | 10.0 | 20.0 | 10 | 64.00 | 4.0 | |
| 05SWC-016 | 0 | 4.27 | 4.27 | | 0.0 | | | 0.0 | 9999 | 2342 | 0 | 5.0 | | 10 | 15.00 | 1.0 | |
| 05SWC-016 | 4.27 | 5.75 | 1.48 | 3.0 | 4.0 | 0.87 | 58.78 | 13.0 | 10 | 7 | 148 | 8.0 | 12 | 10 | 47.00 | 3.0 | |
| 05SWC-016 | 5.75 | 6.71 | 0.96 | 3.0 | 4.0 | 0.36 | 37.50 | 8.0 | 8 | 8 | 120 | 8.0 | 12 | 10 | 42.00 | 3.0 | |
| 05SWC-016 | 6.71 | 8.23 | 1.52 | 3.0 | 4.0 | 0.86 | 56.58 | 13.0 | 13 | 9 | 117 | 8.0 | 12 | 10 | 47.00 | 3.0 | |
| 05SWC-016 | 8.23 | 9.75 | 1.52 | 2.0 | 2.0 | 0.86 | 56.58 | 13.0 | 18 | 12 | 84 | 8.0 | 12 | 10 | 45.00 | 3.0 | |
| 05SWC-016 | 9.75 | 11.28 | 1.53 | 2.0 | 2.0 | 1.12 | 73.20 | 13.0 | 11 | 7 | 139 | 8.0 | 12 | 10 | 45.00 | 3.0 | |
| 05SWC-016 | 11.28 | 12.80 | 1.52 | 3.0 | 4.0 | 0.46 | 30.26 | 8.0 | 13 | 9 | 117 | 8.0 | 12 | 10 | 42.00 | 3.0 | |
| 05SWC-016 | 12.80 | 14.33 | 1.53 | 2.5 | 4.0 | 0.50 | 32.68 | 8.0 | 20 | 13 | 77 | 8.0 | 12 | 10 | 42.00 | 3.0 | |
| 05SWC-016 | 14.33 | 15.85 | 1.52 | 3.0 | 4.0 | 0.42 | 27.63 | 8.0 | 11 | 7 | 138 | 8.0 | 12 | 10 | 42.00 | 3.0 | |
| 05SWC-016 | 15.85 | 17.35 | 1.50 | 2.5 | 4.0 | 0.18 | 12.00 | 3.0 | 13 | 9 | 115 | 8.0 | 12 | 10 | 37.00 | 2.0 | |
| 05SWC-016 | 17.35 | 18.90 | 1.55 | 3.0 | 4.0 | 0.26 | 16.77 | 3.0 | 11 | 7 | 141 | 8.0 | 12 | 10 | 37.00 | 2.0 | |
| 05SWC-016 | 18.90 | 20.40 | 1.50 | 3.0 | 4.0 | 0.25 | 16.67 | 3.0 | 19 | 13 | 79 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05SWC-016 | 20.40 | 21.95 | 1.55 | 3.5 | 7.0 | 1.31 | 84.52 | 17.0 | 10 | 6 | 155 | 8.0 | 16 | 10 | 58.00 | 3.0 | |
| 05SWC-016 | 21.95 | 23.47 | 1.52 | 3.5 | 7.0 | 0.60 | 39.47 | 8.0 | 17 | 11 | 89 | 8.0 | 12 | 10 | 45.00 | 3.0 | |
| 05SWC-016 | 23.47 | 24.99 | 1.52 | 3.5 | 7.0 | 1.03 | 67.76 | 13.0 | 12 | 8 | 127 | 8.0 | 12 | 10 | 50.00 | 3.0 | |
| 05SWC-016 | 24.99 | 26.52 | 1.53 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 13 | 8 | 118 | 8.0 | 14 | 10 | 36.00 | 2.0 | |
| 05SWC-016 | 26.52 | 28.04 | 1.52 | 3.0 | 4.0 | 0.73 | 48.03 | 8.0 | 18 | 12 | 84 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05SWC-016 | 28.04 | 29.57 | 1.53 | 3.0 | 4.0 | 0.92 | 60.13 | 13.0 | 12 | 8 | 128 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05SWC-016 | 29.57 | 31.09 | 1.52 | 3.0 | 4.0 | 0.85 | 55.92 | 13.0 | 9 | 6 | 169 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05SWC-016 | 31.09 | 32.61 | 1.52 | 4.0 | 7.0 | 0.32 | 21.05 | 3.0 | 13 | 9 | 117 | 8.0 | 14 | 10 | 42.00 | 3.0 | |
| 05SWC-016 | 32.61 | 34.14 | 1.53 | 4.0 | 7.0 | 0.90 | 58.82 | 13.0 | 12 | 8 | 128 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05SWC-016 | 34.14 | 35.66 | 1.52 | 4.0 | 7.0 | 0.00 | 0.00 | 0.0 | 26 | 17 | 58 | 5.0 | 16 | 10 | 38.00 | 2.0 | |
| 05SWC-016 | 35.66 | 37.19 | 1.53 | 4.0 | 7.0 | 0.93 | 60.78 | 13.0 | 12 | 8 | 128 | 8.0 | 20 | 10 | 58.00 | 3.0 | |
| 05SWC-016 | 37.19 | 38.71 | 1.52 | 4.0 | 7.0 | 0.33 | 21.71 | 3.0 | 16 | 11 | 95 | 8.0 | 20 | 10 | 48.00 | 3.0 | |
| 05SWC-016 | 38.71 | 40.23 | 1.52 | 4.0 | 7.0 | 0.72 | 47.37 | 8.0 | 12 | 8 | 127 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05SWC-016 | 40.23 | 41.76 | 1.53 | 4.0 | 7.0 | 0.93 | 60.78 | 13.0 | 10 | 7 | 153 | 8.0 | 20 | 10 | 58.00 | 3.0 | |
| 05SWC-016 | 41.76 | 43.28 | 1.52 | 4.0 | 7.0 | 0.86 | 56.58 | 13.0 | 17 | 11 | 89 | 8.0 | 20 | 10 | 58.00 | 3.0 | |
| 05SWC-016 | 43.28 | 44.81 | 1.53 | 4.0 | 7.0 | 0.91 | 59.48 | 13.0 | 11 | 7 | 139 | 8.0 | 22 | 10 | 60.00 | 3.0 | |
| 05SWC-016 | 44.81 | 46.33 | 1.52 | 3.5 | 7.0 | 1.36 | 89.47 | 17.0 | 3 | 2 | 507 | 10.0 | 22 | 10 | 66.00 | 4.0 | |
| 05SWC-016 | 46.33 | 47.85 | 1.52 | 4.0 | 7.0 | 1.56 | 102.63 | 20.0 | 6 | 4 | 253 | 10.0 | 22 | 10 | 69.00 | 4.0 | |
| 05SWC-016 | 47.85 | 49.38 | 1.53 | 4.0 | 7.0 | 0.83 | 54.25 | 13.0 | 10 | 7 | 153 | 8.0 | 20 | 10 | 58.00 | 3.0 | |
| 05SWC-016 | 49.38 | 50.90 | 1.52 | 4.0 | 7.0 | 0.82 | 53.95 | 13.0 | 5 | 3 | 304 | 10.0 | 20 | 10 | 60.00 | 3.0 | |
| 05SWC-016 | 50.90 | 52.43 | 1.53 | 4.0 | 7.0 | 1.04 | 67.97 | 13.0 | 5 | 3 | 306 | 10.0 | 22 | 10 | 62.00 | 4.0 | |
| 05SWC-016 | 52.43 | 53.95 | 1.52 | 4.0 | 7.0 | 1.10 | 72.37 | 13.0 | 5 | 3 | 304 | 10.0 | 22 | 10 | 62.00 | 4.0 | |
| 05SWC-016 | 53.95 | 55.47 | 1.52 | 4.0 | 7.0 | 1.14 | 75.00 | 17.0 | 4 | 3 | 380 | 10.0 | 24 | 10 | 68.00 | 4.0 | |
| 05SWC-016 | 55.47 | 57.00 | 1.53 | 4.0 | 7.0 | 0.95 | 62.09 | 13.0 | 5 | 3 | 306 | 10.0 | 22 | 10 | 62.00 | 4.0 | |
| 05SWC-016 | 57.00 | 58.52 | 1.52 | 4.0 | 7.0 | 1.10 | 72.37 | 13.0 | 4 | 3 | 380 | 10.0 | 22 | 10 | 62.00 | 4.0 | |
| 05SWC-016 | 58.52 | 60.05 | 1.53 | 4.0 | 7.0 | 0.92 | 60.13 | 13.0 | 4 | 3 | 382 | 10.0 | 22 | 10 | 62.00 | 4.0 | |
| 05SWC-016 | 60.05 | 61.57 | 1.52 | 4.0 | 7.0 | 1.25 | 82.24 | 17.0 | 7 | 5 | 217 | 10.0 | 24 | 10 | 68.00 | 4.0 | |
| 05SWC-016 | 61.57 | 63.09 | 1.52 | 4.0 | 7.0 | 1.20 | 78.95 | 17.0 | 6 | 4 | 253 | 10.0 | 24 | 10 | 68.00 | 4.0 | |
| 05SWC-016 | 63.09 | 64.62 | 1.53 | 4.0 | 7.0 | 1.31 | 85.62 | 17.0 | 5 | 3 | 306 | 10.0 | 24 | 10 | 68.00 | 4.0 | |
| 05SWC-016 | 64.62 | 66.14 | 1.52 | 4.0 | 7.0 | 1.14 | 75.00 | 17.0 | 3 | 2 | 507 | 10.0 | 24 | 10 | 68.00 | 4.0 | |
| 05SWC-016 | 66.14 | 67.67 | 1.53 | 4.0 | 7.0 | 1.06 | 69.28 | 13.0 | 5 | 3 | 306 | 10.0 | 24 | 10 | 64.00 | 4.0 | |
| 05SWC-016 | 67.67 | 69.19 | 1.52 | 4.0 | 7.0 | 1.31 | 86.18 | 17.0 | 5 | 3 | 304 | 10.0 | 22 | 10 | 66.00 | 4.0 | |
| 05SWC-016 | 69.19 | 70.71 | 1.52 | 4.0 | 7.0 | 1.22 | 80.26 | 17.0 | 4 | 3 | 380 | 10.0 | 22 | 10 | 66.00 | 4.0 | |
| 05SWC-016 | 70.71 | 72.24 | 1.53 | 4.0 | 7.0 | 0.98 | 64.05 | 13.0 | 10 | 7 | 153 | 8.0 | 22 | 10 | 60.00 | 3.0 | |
| 05SWC-016 | 72.24 | 73.76 | 1.52 | 4.0 | 7.0 | 1.25 | 82.24 | 17.0 | 3 | 2 | 507 | 10.0 | 24 | 10 | 68.00 | 4.0 | |
| 05SWC-016 | 73.76 | 74.98 | 1.22 | 4.0 | 7.0 | 0.18 | 14.75 | 3.0 | 3 | 2 | 407 | 10.0 | 24 | 10 | 54.00 | 3.0 | |
| 05SWC-013 | 0 | 6.15 | 6.15 | | 0.0 | | | 0.0 | 9999 | 1626 | 1 | 5.0 | 0 | 10 | 15.00 | 1.0 | |
| 05SWC-013 | 6.15 | 6.25 | 0.10 | 3.0 | 4.0 | 0.10 | 100.00 | 20.0 | 16 | 160 | 6 | 5.0 | 0 | 10 | 39.00 | 2.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD | | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Length (m) | % | | | | | | | | | | |
| 05SWC-013 | 6.25 | 7.77 | 1.52 | 3.0 | 4.0 | 0.45 | 29.61 | 8.0 | 16 | 11 | 95 | 8.0 | 12.0 | 10 | 42.00 | 3.0 | |
| 05SWC-013 | 7.77 | 8.53 | 0.76 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 13 | 17 | 58 | 5.0 | 12.0 | 10 | 31.00 | 2.0 | |
| 05SWC-013 | 8.53 | 9.75 | 1.22 | 3.0 | 4.0 | 0.12 | 9.84 | 3.0 | 12 | 10 | 102 | 8.0 | 12.0 | 10 | 37.00 | 2.0 | |
| 05SWC-013 | 9.75 | 10.72 | 0.97 | 2.5 | 4.0 | 0.00 | 0.00 | 0.0 | 9999 | 10308 | 0 | 5.0 | 12.0 | 10 | 31.00 | 2.0 | |
| 05SWC-013 | 10.72 | 11.58 | 0.86 | 3.0 | 4.0 | 0.18 | 20.93 | 3.0 | 3 | 3 | 287 | 10.0 | 12.0 | 10 | 39.00 | 2.0 | |
| 05SWC-013 | 11.58 | 11.73 | 0.15 | 3.0 | 4.0 | 0.00 | 0.00 | 0.0 | 3 | 20 | 50 | 5.0 | 12.0 | 10 | 31.00 | 2.0 | |
| 05SWC-013 | 11.73 | 12.80 | 1.07 | 4.0 | 7.0 | 0.68 | 63.55 | 13.0 | 18 | 17 | 59 | 5.0 | 12.0 | 10 | 47.00 | 3.0 | |
| 05SWC-013 | 12.80 | 13.26 | 0.46 | 4.0 | 7.0 | 0.00 | 0.00 | 0.0 | 11 | 24 | 42 | 5.0 | 12.0 | 10 | 34.00 | 2.0 | |
| 05SWC-013 | 13.26 | 14.81 | 1.55 | 3.5 | 7.0 | 0.41 | 26.45 | 8.0 | 25 | 16 | 62 | 8.0 | 12.0 | 10 | 45.00 | 3.0 | |
| 05SWC-013 | 14.81 | 15.85 | 1.04 | 3.0 | 4.0 | 0.31 | 29.81 | 8.0 | 21 | 20 | 50 | 5.0 | 12.0 | 10 | 39.00 | 2.0 | |
| 05SWC-013 | 15.85 | 17.32 | 1.47 | 3.0 | 4.0 | 0.31 | 21.09 | 3.0 | 9999 | 6802 | 0 | 5.0 | 12.0 | 10 | 34.00 | 2.0 | |
| 05SWC-013 | 17.32 | 18.90 | 1.58 | 3.0 | 4.0 | 0.74 | 46.84 | 8.0 | 13 | 8 | 122 | 8.0 | 12.0 | 10 | 42.00 | 3.0 | |
| 05SWC-013 | 18.90 | 20.42 | 1.52 | 3.0 | 4.0 | 0.66 | 43.42 | 8.0 | 25 | 16 | 61 | 8.0 | 12.0 | 10 | 42.00 | 3.0 | |
| 05SWC-013 | 20.42 | 21.95 | 1.53 | 3.0 | 4.0 | 0.78 | 50.98 | 13.0 | 19 | 12 | 81 | 8.0 | 12.0 | 10 | 47.00 | 3.0 | |
| 05SWC-013 | 21.95 | 23.47 | 1.52 | 3.5 | 7.0 | 0.57 | 37.50 | 8.0 | 20 | 13 | 76 | 8.0 | 16.0 | 10 | 49.00 | 3.0 | |
| 05SWC-013 | 23.47 | 24.69 | 1.22 | 3.0 | 4.0 | 0.24 | 19.67 | 3.0 | 25 | 20 | 49 | 5.0 | 14.0 | 10 | 36.00 | 2.0 | |
| 05SWC-013 | 24.69 | 26.21 | 1.52 | 3.0 | 4.0 | 0.59 | 38.82 | 8.0 | 28 | 18 | 54 | 5.0 | 12.0 | 10 | 39.00 | 2.0 | |
| 05SWC-013 | 26.21 | 27.89 | 1.68 | 3.0 | 4.0 | 0.64 | 38.10 | 8.0 | 25 | 15 | 67 | 8.0 | 12.0 | 10 | 42.00 | 3.0 | |
| 05SWC-013 | 27.89 | 29.41 | 1.52 | 2.5 | 4.0 | 0.32 | 21.05 | 3.0 | 30 | 20 | 51 | 5.0 | 12.0 | 10 | 34.00 | 2.0 | |
| 05SWC-013 | 29.41 | 31.09 | 1.68 | 3.0 | 4.0 | 0.73 | 43.45 | 8.0 | 29 | 17 | 58 | 5.0 | 12.0 | 10 | 39.00 | 2.0 | |
| 05SWC-013 | 31.09 | 32.61 | 1.52 | 3.5 | 7.0 | 0.96 | 63.16 | 13.0 | 23 | 15 | 66 | 8.0 | 12.0 | 10 | 50.00 | 3.0 | |
| 05SWC-013 | 32.61 | 34.14 | 1.53 | 3.0 | 4.0 | 0.75 | 49.02 | 8.0 | 17 | 11 | 90 | 8.0 | 14.0 | 10 | 44.00 | 3.0 | |
| 05SWC-013 | 34.14 | 35.66 | 1.52 | 3.0 | 4.0 | 1.08 | 71.05 | 13.0 | 11 | 7 | 138 | 8.0 | 12.0 | 10 | 47.00 | 3.0 | |
| 05SWC-013 | 35.66 | 37.19 | 1.53 | 3.5 | 7.0 | 1.12 | 73.20 | 13.0 | 9 | 6 | 170 | 8.0 | 14.0 | 10 | 52.00 | 3.0 | |
| 05SWC-013 | 37.19 | 38.71 | 1.52 | 4.0 | 7.0 | 1.44 | 94.74 | 20.0 | 5 | 3 | 304 | 10.0 | 20.0 | 10 | 67.00 | 4.0 | |
| 05SWC-013 | 38.71 | 40.23 | 1.52 | 4.0 | 7.0 | 1.50 | 98.68 | 20.0 | 5 | 3 | 304 | 10.0 | 20.0 | 10 | 67.00 | 4.0 | |
| 05SWC-013 | 40.23 | 41.76 | 1.53 | 3.5 | 7.0 | 1.37 | 89.54 | 17.0 | 5 | 3 | 306 | 10.0 | 20.0 | 10 | 64.00 | 4.0 | |
| 05SWC-013 | 41.76 | 44.81 | 3.05 | 3.0 | 4.0 | 2.10 | 68.85 | 13.0 | 19 | 6 | 161 | 8.0 | 14.0 | 10 | 49.00 | 3.0 | |
| 05SWC-013 | 44.81 | 46.33 | 1.52 | 4.0 | 7.0 | 1.07 | 70.39 | 13.0 | 8 | 5 | 190 | 8.0 | 14.0 | 10 | 52.00 | 3.0 | |
| 05SWC-013 | 46.33 | 49.38 | 3.05 | 3.5 | 7.0 | 1.47 | 48.20 | 8.0 | 25 | 8 | 122 | 8.0 | 20.0 | 10 | 53.00 | 3.0 | |
| 05SWC-013 | 49.38 | 50.90 | 1.52 | 4.5 | 12.0 | 1.13 | 74.34 | 13.0 | 10 | 7 | 152 | 8.0 | 18.0 | 10 | 61.00 | 4.0 | |
| 05SWC-013 | 50.90 | 52.43 | 1.53 | 3.5 | 7.0 | 1.17 | 76.47 | 17.0 | 9 | 6 | 170 | 8.0 | 20.0 | 10 | 62.00 | 4.0 | |
| 05SWC-013 | 52.43 | 53.95 | 1.52 | 3.0 | 4.0 | 1.44 | 94.74 | 20.0 | 7 | 5 | 217 | 10.0 | 20.0 | 10 | 64.00 | 4.0 | |
| 05SWC-013 | 53.95 | 55.47 | 1.52 | 4.0 | 7.0 | 0.86 | 56.58 | 13.0 | 9 | 6 | 169 | 8.0 | 18.0 | 10 | 56.00 | 3.0 | |
| 05SWC-013 | 55.47 | 57.00 | 1.53 | 3.5 | 7.0 | 1.20 | 78.43 | 17.0 | 6 | 4 | 255 | 10.0 | 18.0 | 10 | 62.00 | 4.0 | |
| 05SWC-013 | 57.00 | 58.52 | 1.52 | 4.0 | 7.0 | 1.09 | 71.71 | 13.0 | 11 | 7 | 138 | 8.0 | 16.0 | 10 | 54.00 | 3.0 | |
| 05SWC-013 | 58.52 | 60.05 | 1.53 | 4.0 | 7.0 | 0.96 | 62.75 | 13.0 | 5 | 3 | 306 | 10.0 | 12.0 | 10 | 52.00 | 3.0 | |
| 05SWC-013 | 60.05 | 61.57 | 1.52 | 3.5 | 7.0 | 1.02 | 67.11 | 13.0 | 12 | 8 | 127 | 8.0 | 14.0 | 10 | 52.00 | 3.0 | |
| 05SWC-013 | 61.57 | 63.09 | 1.52 | 3.5 | 7.0 | 1.14 | 75.00 | 13.0 | 11 | 7 | 138 | 8.0 | 14.0 | 10 | 52.00 | 3.0 | |
| 05SWC-013 | 63.09 | 64.62 | 1.53 | 4.0 | 7.0 | 1.26 | 82.35 | 17.0 | 8 | 5 | 191 | 8.0 | 18.0 | 10 | 60.00 | 3.0 | |
| 05SWC-013 | 64.62 | 66.14 | 1.52 | 4.0 | 7.0 | 0.88 | 57.89 | 13.0 | 10 | 7 | 152 | 8.0 | 20.0 | 10 | 58.00 | 3.0 | |
| 05SWC-013 | 66.14 | 67.67 | 1.53 | 3.5 | 7.0 | 1.39 | 90.85 | 20.0 | 3 | 2 | 510 | 10.0 | 20.0 | 10 | 67.00 | 4.0 | |
| 05SWC-013 | 67.67 | 69.19 | 1.52 | 4.0 | 7.0 | 1.41 | 92.76 | 20.0 | 2 | 1 | 760 | 16.0 | 22.0 | 10 | 75.00 | 4.0 | |
| 05SWC-013 | 69.19 | 70.71 | 1.52 | 4.0 | 7.0 | 1.06 | 69.74 | 13.0 | 7 | 5 | 217 | 10.0 | 22.0 | 10 | 62.00 | 4.0 | |
| 05SWC-013 | 70.71 | 72.24 | 1.53 | 4.0 | 7.0 | 1.10 | 71.90 | 13.0 | 10 | 7 | 153 | 8.0 | 22.0 | 10 | 60.00 | 3.0 | |
| 05SWC-013 | 72.24 | 73.76 | 1.52 | 4.0 | 7.0 | 1.21 | 79.61 | 17.0 | 6 | 4 | 253 | 10.0 | 22.0 | 10 | 66.00 | 4.0 | |
| 05SWC-013 | 73.76 | 75.29 | 1.53 | 4.0 | 7.0 | 1.00 | 65.36 | 13.0 | 10 | 7 | 153 | 8.0 | 20.0 | 10 | 58.00 | 3.0 | |
| 05SWC-013 | 75.29 | 76.81 | 1.52 | 3.0 | 4.0 | 1.36 | 89.47 | 17.0 | 5 | 3 | 304 | 10.0 | 20.0 | 10 | 61.00 | 4.0 | |
| 05SWC-013 | 76.81 | 78.33 | 1.52 | 3.0 | 4.0 | 1.43 | 94.08 | 20.0 | 1 | 1 | 1520 | 16.0 | 22.0 | 10 | 72.00 | 4.0 | |
| 05SWC-013 | 78.33 | 79.86 | 1.53 | 3.0 | 4.0 | 1.59 | 103.92 | 20.0 | 1 | 1 | 1530 | 16.0 | 22.0 | 10 | 72.00 | 4.0 | |
| 05SWC-013 | 79.86 | 81.38 | 1.52 | 3.0 | 4.0 | 1.58 | 103.95 | 20.0 | 1 | 1 | 1520 | 16.0 | 22.0 | 10 | 72.00 | 4.0 | |
| 05SWC-013 | 81.38 | 82.91 | 1.53 | 4.0 | 7.0 | 1.42 | 92.81 | 20.0 | 3 | 2 | 510 | 10.0 | 22.0 | 10 | 69.00 | 4.0 | |
| 05SWC-013 | 82.91 | 84.43 | 1.52 | 4.0 | 7.0 | 1.59 | 104.61 | 20.0 | 2 | 1 | 760 | 16.0 | 22.0 | 10 | 75.00 | 4.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05SWC-013 | 84.43 | 87.48 | 3.05 | 4.0 | 7.0 | 2.47 | 80.98 | 17.0 | 12 | 4 | 254 | 10.0 | 18.0 | 10 | 62.00 | 4.0 | |
| 05SWC-013 | 87.48 | 89.00 | 1.52 | 4.0 | 7.0 | 1.38 | 90.79 | 20.0 | 2 | 1 | 760 | 16.0 | 22.0 | 10 | 75.00 | 4.0 | |
| 05SWC-013 | 89.00 | 90.22 | 1.22 | 4.0 | 7.0 | 1.22 | 100.00 | 20.0 | 1 | 1 | 1220 | 16.0 | 22.0 | 10 | 75.00 | 4.0 | |
| 05SWC-013 | 90.22 | 92.00 | 1.78 | 4.0 | 7.0 | 1.68 | 94.38 | 20.0 | 7 | 4 | 254 | 10.0 | 22.0 | 10 | 69.00 | 4.0 | |
| 05SWC-010 | 0 | 6.10 | 6.10 | | 0.0 | | | 0.0 | 9999 | 1639 | 1 | 5.0 | | 10 | 15.00 | 1.0 | |
| 05SWC-010 | 6.10 | 6.71 | 0.61 | 2.5 | 4.0 | 0.00 | 0 | 0.0 | 9999 | 16392 | 0 | 5.0 | 0 | 10 | 19.00 | 1.0 | |
| 05SWC-010 | 6.71 | 8.23 | 1.52 | 1.0 | 1.0 | 0.00 | 0 | 0.0 | 9999 | 6578 | 0 | 5.0 | 0 | 10 | 16.00 | 1.0 | |
| 05SWC-010 | 8.23 | 9.75 | 1.52 | 1.0 | 1.0 | 0.10 | 7 | 3.0 | 9999 | 6578 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | |
| 05SWC-010 | 9.75 | 11.28 | 1.53 | 1.0 | 1.0 | 0.11 | 7 | 3.0 | 9999 | 6535 | 0 | 5.0 | 6 | 10 | 25.00 | 2.0 | |
| 05SWC-010 | 11.28 | 12.80 | 1.52 | 2.0 | 2.0 | 0.12 | 8 | 3.0 | 17 | 11 | 89 | 8.0 | 12 | 10 | 35.00 | 2.0 | |
| 05SWC-010 | 12.80 | 14.02 | 1.22 | 2.0 | 2.0 | 0.00 | 0 | 0.0 | 12 | 10 | 102 | 8.0 | 12 | 10 | 32.00 | 2.0 | |
| 05SWC-010 | 14.02 | 15.54 | 1.52 | 2.5 | 4.0 | 0.22 | 14 | 3.0 | 12 | 8 | 127 | 8.0 | 12 | 10 | 37.00 | 2.0 | |
| 05SWC-010 | 15.54 | 17.07 | 1.53 | 2.5 | 4.0 | 0.12 | 8 | 3.0 | 16 | 10 | 96 | 8.0 | 12 | 10 | 37.00 | 2.0 | |
| 05SWC-010 | 17.07 | 18.74 | 1.67 | 1.5 | 2.0 | 0.11 | 7 | 3.0 | 11 | 7 | 152 | 8.0 | 6 | 10 | 29.00 | 2.0 | |
| 05SWC-010 | 18.74 | 20.42 | 1.68 | 2.5 | 4.0 | 0.00 | 0 | 0.0 | 20 | 12 | 84 | 8.0 | 6 | 10 | 28.00 | 2.0 | |
| 05SWC-010 | 20.42 | 21.95 | 1.53 | 2.5 | 4.0 | 0.13 | 8 | 3.0 | 9 | 6 | 170 | 8.0 | 6 | 10 | 31.00 | 2.0 | |
| 05SWC-010 | 21.95 | 23.47 | 1.52 | 2.5 | 4.0 | 0.66 | 43 | 8.0 | 13 | 9 | 117 | 8.0 | 6 | 10 | 36.00 | 2.0 | |
| 05SWC-010 | 23.47 | 24.99 | 1.52 | 1.0 | 1.0 | 0.12 | 8 | 3.0 | 15 | 10 | 101 | 8.0 | 12 | 10 | 34.00 | 2.0 | |
| 05SWC-010 | 24.99 | 26.21 | 1.22 | 1.0 | 1.0 | 0.12 | 10 | 3.0 | 13 | 11 | 94 | 8.0 | 6 | 10 | 28.00 | 2.0 | |
| 05SWC-010 | 26.21 | 27.74 | 1.53 | 1.0 | 1.0 | 0.71 | 46 | 8.0 | 6 | 4 | 255 | 10.0 | 14 | 10 | 43.00 | 3.0 | |
| 05SWC-010 | 27.74 | 29.26 | 1.52 | 2.5 | 4.0 | 0.78 | 51 | 13.0 | 10 | 7 | 152 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05SWC-010 | 29.26 | 30.93 | 1.67 | 2.0 | 2.0 | 0.91 | 54 | 13.0 | 11 | 7 | 152 | 8.0 | 12 | 10 | 45.00 | 3.0 | |
| 05SWC-010 | 30.93 | 32.46 | 1.53 | 2.5 | 4.0 | 1.03 | 67 | 13.0 | 8 | 5 | 191 | 8.0 | 6 | 10 | 41.00 | 3.0 | |
| 05SWC-010 | 32.46 | 34.14 | 1.68 | 2.5 | 4.0 | 1.11 | 66 | 13.0 | 7 | 4 | 240 | 10.0 | 16 | 10 | 53.00 | 3.0 | |
| 05SWC-010 | 34.14 | 35.36 | 1.22 | 2.5 | 4.0 | 1.14 | 93 | 20.0 | 5 | 4 | 244 | 10.0 | 14 | 10 | 58.00 | 3.0 | |
| 05SWC-010 | 35.36 | 36.88 | 1.52 | 2.5 | 4.0 | 0.94 | 62 | 13.0 | 8 | 5 | 190 | 8.0 | 6 | 10 | 41.00 | 3.0 | |
| 05SWC-010 | 36.88 | 38.40 | 1.52 | 2.5 | 4.0 | 0.66 | 43 | 8.0 | 12 | 8 | 127 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05SWC-010 | 38.40 | 39.62 | 1.22 | 2.0 | 2.0 | 0.34 | 28 | 8.0 | 11 | 9 | 111 | 8.0 | 14 | 10 | 42.00 | 3.0 | |
| 05SWC-010 | 39.62 | 40.54 | 0.92 | 2.0 | 2.0 | 0.70 | 76 | 17.0 | 5 | 5 | 184 | 8.0 | 14 | 10 | 51.00 | 3.0 | |
| 05SWC-010 | 40.54 | 42.06 | 1.52 | 2.0 | 2.0 | 1.25 | 82 | 17.0 | 8 | 5 | 190 | 8.0 | 12 | 10 | 49.00 | 3.0 | |
| 05SWC-010 | 42.06 | 43.28 | 1.22 | 2.0 | 2.0 | 0.92 | 75 | 17.0 | 7 | 6 | 174 | 8.0 | 12 | 10 | 49.00 | 3.0 | |
| 05SWC-010 | 43.28 | 44.81 | 1.53 | 2.5 | 4.0 | 0.83 | 54 | 13.0 | 10 | 7 | 153 | 8.0 | 12 | 10 | 47.00 | 3.0 | |
| 05SWC-010 | 44.81 | 47.24 | 2.43 | 2.5 | 4.0 | 1.40 | 58 | 13.0 | 14 | 6 | 174 | 8.0 | 12 | 10 | 47.00 | 3.0 | |
| 05SWC-010 | 47.24 | 48.00 | 0.76 | 2.5 | 4.0 | 0.71 | 93 | 20.0 | 2 | 3 | 380 | 10.0 | 12 | 10 | 56.00 | 3.0 | |
| 05SWC-010 | 48.00 | 50.60 | 2.60 | 3.5 | 7.0 | 1.51 | 58 | 13.0 | 11 | 4 | 236 | 10.0 | 12 | 10 | 52.00 | 3.0 | |
| 05SWC-010 | 50.60 | 53.64 | 3.04 | 2.0 | 2.0 | 2.66 | 88 | 17.0 | 9 | 3 | 338 | 10.0 | 14 | 10 | 53.00 | 3.0 | |
| 05SWC-010 | 53.64 | 56.69 | 3.05 | 2.5 | 4.0 | 2.61 | 86 | 17.0 | 12 | 4 | 254 | 10.0 | 12 | 10 | 53.00 | 3.0 | |
| 05SWC-010 | 56.69 | 59.89 | 3.20 | 2.5 | 4.0 | 2.33 | 73 | 13.0 | 25 | 8 | 128 | 8.0 | 12 | 10 | 47.00 | 3.0 | |
| 05SWC-010 | 59.89 | 63.09 | 3.20 | 3.0 | 4.0 | 2.55 | 80 | 17.0 | 11 | 3 | 291 | 10.0 | 12 | 10 | 53.00 | 3.0 | |
| 05SWC-010 | 63.09 | 66.14 | 3.05 | 3.0 | 4.0 | 2.36 | 77 | 17.0 | 11 | 4 | 277 | 10.0 | 12 | 10 | 53.00 | 3.0 | |
| 05SWC-010 | 66.14 | 69.19 | 3.05 | 3.5 | 7.0 | 2.30 | 75 | 17.0 | 16 | 5 | 191 | 8.0 | 14 | 10 | 56.00 | 3.0 | |
| 05SWC-010 | 69.19 | 72.24 | 3.05 | 3.0 | 4.0 | 2.16 | 71 | 13.0 | 14 | 5 | 218 | 10.0 | 12 | 10 | 49.00 | 3.0 | |
| 05SWC-010 | 72.24 | 75.29 | 3.05 | 3.0 | 4.0 | 2.58 | 85 | 17.0 | 11 | 4 | 277 | 10.0 | 12 | 10 | 53.00 | 3.0 | |
| 05SWC-010 | 75.29 | 78.03 | 2.74 | 3.0 | 4.0 | 1.80 | 66 | 13.0 | 24 | 9 | 114 | 8.0 | 6 | 10 | 41.00 | 3.0 | |
| 05SWC-010 | 78.03 | 81.08 | 3.05 | 3.5 | 7.0 | 2.07 | 68 | 13.0 | 17 | 6 | 179 | 8.0 | 12 | 10 | 50.00 | 3.0 | |
| 05SWC-010 | 81.08 | 84.27 | 3.19 | 4.0 | 7.0 | 2.65 | 83 | 17.0 | 13 | 4 | 245 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05SWC-010 | 84.27 | 87.48 | 3.21 | 4.0 | 7.0 | 2.52 | 79 | 17.0 | 8 | 2 | 401 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05SWC-010 | 87.48 | 90.53 | 3.05 | 4.5 | 12.0 | 2.83 | 93 | 20.0 | 13 | 4 | 235 | 10.0 | 16 | 10 | 68.00 | 4.0 | |
| 05SWC-010 | 90.53 | 93.57 | 3.04 | 4.0 | 7.0 | 2.41 | 79 | 17.0 | 12 | 4 | 253 | 10.0 | 20 | 10 | 64.00 | 4.0 | |
| 05SWC-010 | 93.57 | 96.01 | 2.44 | 4.0 | 7.0 | 1.79 | 73 | 13.0 | 12 | 5 | 203 | 10.0 | 14 | 10 | 54.00 | 3.0 | |
| 05SWC-010 | 96.01 | 96.62 | 0.61 | 4.0 | 7.0 | 0.52 | 85 | 17.0 | 1 | 2 | 610 | 16.0 | 14 | 10 | 64.00 | 4.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05SWC-010 | 96.62 | 99.67 | 3.05 | 3.0 | 4.0 | 2.67 | 88 | 17.0 | 13 | 4 | 235 | 10.0 | 16 | 10 | 57.00 | 3.0 | | |
| 05SWC-010 | 99.67 | 102.72 | 3.05 | 3.0 | 4.0 | 2.92 | 96 | 20.0 | 6 | 2 | 508 | 10.0 | 18 | 10 | 62.00 | 4.0 | | |
| 05SWC-010 | 102.72 | 105.77 | 3.05 | 3.5 | 7.0 | 2.69 | 88 | 17.0 | 6 | 2 | 508 | 10.0 | 18 | 10 | 62.00 | 4.0 | | |
| 05SWC-010 | 105.77 | 108.81 | 3.04 | 3.0 | 4.0 | 2.57 | 85 | 17.0 | 16 | 5 | 190 | 8.0 | 20 | 10 | 59.00 | 3.0 | | |
| 05SWC-010 | 108.81 | 111.86 | 3.05 | 1.0 | 1.0 | 2.36 | 77 | 17.0 | 17 | 6 | 179 | 8.0 | 20 | 10 | 56.00 | 3.0 | | |
| 05SWC-010 | 111.86 | 114.91 | 3.05 | 1.0 | 1.0 | 2.68 | 88 | 17.0 | 9 | 3 | 339 | 10.0 | 20 | 10 | 58.00 | 3.0 | | |
| 05SWC-010 | 114.91 | 117.96 | 3.05 | 4.0 | 7.0 | 2.45 | 80 | 17.0 | 12 | 4 | 254 | 10.0 | 22 | 10 | 66.00 | 4.0 | | |
| 05SWC-010 | 117.96 | 121.01 | 3.05 | 3.0 | 4.0 | 2.67 | 88 | 17.0 | 8 | 3 | 381 | 10.0 | 18 | 10 | 59.00 | 3.0 | | |
| 05SWC-010 | 121.01 | 124.05 | 3.04 | 3.0 | 4.0 | 2.66 | 88 | 17.0 | 7 | 2 | 434 | 10.0 | 18 | 10 | 59.00 | 3.0 | | |
| 05SWC-010 | 124.05 | 127.10 | 3.05 | 3.0 | 4.0 | 1.60 | 52 | 13.0 | 27 | 9 | 113 | 8.0 | 12 | 10 | 47.00 | 3.0 | | |
| 05SWC-010 | 127.10 | 130.15 | 3.05 | 3.0 | 4.0 | 2.13 | 70 | 13.0 | 15 | 5 | 203 | 10.0 | 20 | 10 | 57.00 | 3.0 | | |
| 05SWC-010 | 130.15 | 133.20 | 3.05 | 3.0 | 4.0 | 1.31 | 43 | 8.0 | 33 | 11 | 92 | 8.0 | 20 | 10 | 50.00 | 3.0 | | |
| 05SWC-010 | 133.20 | 135.03 | 1.83 | 3.0 | 4.0 | 1.11 | 61 | 13.0 | 7 | 4 | 261 | 10.0 | 18 | 10 | 55.00 | 3.0 | | |
| 05SWC-010 | 135.03 | 136.25 | 1.22 | 3.0 | 4.0 | 0.88 | 72 | 13.0 | 6 | 5 | 203 | 10.0 | 22 | 10 | 59.00 | 3.0 | | |
| 05SWC-010 | 136.25 | 139.29 | 3.04 | 4.0 | 7.0 | 1.62 | 53 | 13.0 | 24 | 8 | 127 | 8.0 | 22 | 10 | 60.00 | 3.0 | | |
| 05-SWC-041 | 0 | 15.24 | 15.24 | 0.0 | | | 0.0 | 0.0 | 9999 | 656 | 2 | 5.0 | 0 | 10 | 15.00 | 1.0 | vpr | |
| 05-SWC-041 | 15.24 | 15.54 | 0.30 | 0.0 | | | 0.0 | 0.0 | 9999 | 33330 | 0 | 5.0 | 16 | 10 | 31.00 | 2.0 | vpr | |
| 05-SWC-041 | 15.54 | 17.07 | 1.53 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 6535 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | vpr | |
| 05-SWC-041 | 17.07 | 18.59 | 1.52 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 6578 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | vpr | |
| 05-SWC-041 | 18.59 | 20.12 | 1.53 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 6535 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | vpr | |
| 05-SWC-041 | 20.12 | 21.64 | 1.52 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 6578 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | vpr | |
| 05-SWC-041 | 21.64 | 23.16 | 1.52 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 6578 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | vpr | |
| 05-SWC-041 | 23.16 | 24.69 | 1.53 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 6535 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | vpr | |
| 05-SWC-041 | 24.69 | 26.21 | 1.52 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 6578 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | vpr | |
| 05-SWC-041 | 26.21 | 27.74 | 1.53 | 2.5 | 4 | | 8.5 | 3.0 | 0.00 | 1 | 1000 | 16.0 | 16 | 10 | 49.00 | 3.0 | vpr | |
| 05-SWC-041 | 27.74 | 29.26 | 1.52 | 2.5 | 4 | | 32.8 | 8.0 | 0.00 | 1 | 1000 | 16.0 | 16 | 10 | 54.00 | 3.0 | vpr | |
| 05-SWC-041 | 29.26 | 30.78 | 1.52 | 2.5 | 4 | | 12.2 | 3.0 | 0.00 | 1 | 1000 | 16.0 | 16 | 10 | 49.00 | 3.0 | vpr | |
| 05-SWC-041 | 30.78 | 32.31 | 1.53 | 2.5 | 4 | | 6.9 | 3.0 | 0.00 | 1 | 1000 | 16.0 | 18 | 10 | 51.00 | 3.0 | vpr | |
| 05-SWC-041 | 32.31 | 33.83 | 1.52 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 6578 | 0 | 5.0 | 18 | 10 | 37.00 | 2.0 | vpr | |
| 05-SWC-041 | 33.83 | 35.36 | 1.53 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 6535 | 0 | 5.0 | 18 | 10 | 37.00 | 2.0 | vpr | |
| 05-SWC-041 | 35.36 | 36.68 | 1.32 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 7575 | 0 | 5.0 | 18 | 10 | 37.00 | 2.0 | vpr | |
| 05-SWC-041 | 36.68 | 38.4 | 1.72 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 5813 | 0 | 5.0 | 18 | 10 | 37.00 | 2.0 | vpr | |
| 05-SWC-041 | 38.4 | 39.93 | 1.53 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 6535 | 0 | 5.0 | 18 | 10 | 37.00 | 2.0 | vpr | |
| 05-SWC-041 | 39.93 | 41.45 | 1.52 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 6578 | 0 | 5.0 | 18 | 10 | 37.00 | 2.0 | vpr | |
| 05-SWC-041 | 41.45 | 42.98 | 1.53 | 2.5 | 4 | | 6.6 | 3.0 | 0.00 | 0 | 1 | 5.0 | 18 | 10 | 40.00 | 2.0 | vpr | |
| 05-SWC-041 | 42.98 | 44.5 | 1.52 | 2.5 | 4 | | 8.8 | 3.0 | 0.00 | 0 | 1 | 5.0 | 18 | 10 | 40.00 | 2.0 | vpr | |
| 05-SWC-041 | 44.5 | 45.42 | 0.92 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 10868 | 0 | 5.0 | 18 | 10 | 37.00 | 2.0 | vpr | |
| 05-SWC-041 | 45.42 | 46.33 | 0.91 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 10988 | 0 | 5.0 | 18 | 10 | 37.00 | 2.0 | vpr | |
| 05-SWC-041 | 46.33 | 47.55 | 1.22 | 2.5 | 4 | | 14.8 | 3.0 | 0.00 | 0 | 1 | 5.0 | 18 | 10 | 40.00 | 2.0 | vpr | |
| 05-SWC-041 | 47.55 | 49.07 | 1.52 | 2.5 | 4 | | 13.8 | 3.0 | 0.00 | 0 | 1 | 5.0 | 18 | 10 | 40.00 | 2.0 | vpr | |
| 05-SWC-041 | 49.07 | 50.6 | 1.53 | 2.5 | 4 | | 28.2 | 8.0 | 0.00 | 0 | 1 | 5.0 | 18 | 10 | 45.00 | 3.0 | vpr | |
| 05-SWC-041 | 50.6 | 51.21 | 0.61 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 16392 | 0 | 5.0 | 18 | 10 | 37.00 | 2.0 | vpr | |
| 05-SWC-041 | 51.21 | 52.12 | 0.91 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 10988 | 0 | 5.0 | 18 | 10 | 37.00 | 2.0 | vpr | |
| 05-SWC-041 | 52.12 | 53.04 | 0.92 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 10868 | 0 | 5.0 | 18 | 10 | 37.00 | 2.0 | vpr | |
| 05-SWC-041 | 53.04 | 54.56 | 1.52 | 2.5 | 4 | | 16.4 | 3.0 | 0.00 | 0 | 1 | 5.0 | 18 | 10 | 40.00 | 2.0 | vpr | |
| 05-SWC-041 | 54.56 | 56.08 | 1.52 | 2.5 | 4 | | 6.6 | 3.0 | 0.00 | 0 | 1 | 5.0 | 18 | 10 | 40.00 | 2.0 | vpr | |
| 05-SWC-041 | 56.08 | 56.96 | 0.88 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 11363 | 0 | 5.0 | 18 | 10 | 37.00 | 2.0 | vpr | |
| 05-SWC-041 | 56.96 | 57.61 | 0.65 | 2.5 | 4 | | 16.9 | 3.0 | 0.00 | 0 | 1 | 5.0 | 18 | 10 | 40.00 | 2.0 | vpr | |
| 05-SWC-041 | 57.61 | 58.83 | 1.22 | 2.5 | 4 | | 8.6 | 3.0 | 0.00 | 0 | 1 | 5.0 | 18 | 10 | 40.00 | 2.0 | vpr | |
| 05-SWC-041 | 58.83 | 60.05 | 1.22 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 8196 | 0 | 5.0 | 18 | 10 | 37.00 | 2.0 | vpr | |
| 05-SWC-041 | 60.05 | 61.26 | 1.21 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 8264 | 0 | 5.0 | 20 | 10 | 39.00 | 2.0 | vpr | |
| 05-SWC-041 | 61.26 | 61.57 | 0.31 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 32255 | 0 | 5.0 | 20 | 10 | 39.00 | 2.0 | vpr | |
| 05-SWC-041 | 61.57 | 62.18 | 0.61 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 16392 | 0 | 5.0 | 20 | 10 | 39.00 | 2.0 | vpr | |
| 05-SWC-041 | 62.18 | 62.79 | 0.61 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 16392 | 0 | 5.0 | 20 | 10 | 39.00 | 2.0 | vpr | |
| 05-SWC-041 | 62.79 | 63.7 | 0.91 | 2.5 | 4 | | 14.3 | 3.0 | 0.00 | 0 | 1 | 5.0 | 20 | 10 | 42.00 | 3.0 | vpr | |
| 05-SWC-041 | 63.7 | 64.31 | 0.61 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 16392 | 0 | 5.0 | 20 | 10 | 39.00 | 2.0 | vpr | |
| 05-SWC-041 | 64.31 | 64.92 | 0.61 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 16392 | 0 | 5.0 | 20 | 10 | 39.00 | 2.0 | vpr | |
| 05-SWC-041 | 64.92 | 65.23 | 0.31 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 32255 | 0 | 5.0 | 18 | 10 | 37.00 | 2.0 | vpr | |
| 05-SWC-041 | 65.23 | 66.14 | 0.91 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 10988 | 0 | 5.0 | 20 | 10 | 39.00 | 2.0 | vpr | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05-SWC-041 | 66.14 | 66.75 | 0.61 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 16392 | 0 | 5.0 | 20 | 10 | 39.00 | 2.0 | vpr | |
| 05-SWC-041 | 66.75 | 67.67 | 0.92 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 10868 | 0 | 5.0 | 20 | 10 | 39.00 | 2.0 | vpr | |
| 05-SWC-041 | 67.67 | 68.28 | 0.61 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 16392 | 0 | 5.0 | 20 | 10 | 39.00 | 2.0 | vpr | |
| 05-SWC-041 | 68.28 | 69.91 | 1.63 | 2.5 | 4 | | 16.6 | 3.0 | 1.00 | 1 | 1630 | 16.0 | 20 | 10 | 53.00 | 3.0 | vpr | |
| 05-SWC-041 | 69.91 | 70.1 | 0.19 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 52626 | 0 | 5.0 | 20 | 10 | 39.00 | 2.0 | vpr | |
| 05-SWC-041 | 70.1 | 70.71 | 0.61 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 16392 | 0 | 5.0 | 20 | 10 | 39.00 | 2.0 | vpr | |
| 05-SWC-041 | 70.71 | 71.63 | 0.92 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 10868 | 0 | 5.0 | 20 | 10 | 39.00 | 2.0 | vpr | |
| 05-SWC-041 | 71.63 | 72.54 | 0.91 | 2.5 | 4 | | 0.0 | 0.0 | 9999 | 10988 | 0 | 5.0 | 20 | 10 | 39.00 | 2.0 | vpr | |
| 05-SWC-041 | 72.54 | 73.46 | 0.92 | 2.5 | 4 | | 15.2 | 3.0 | 9999 | 10868 | 0 | 5.0 | 20 | 10 | 42.00 | 3.0 | vpr | |
| 05-SWC-041 | 73.46 | 74.98 | 1.52 | 2.5 | 4 | | 8.6 | 3.0 | 9999 | 6578 | 0 | 5.0 | 20 | 10 | 42.00 | 3.0 | vpr | |
| 05-SWC-041 | 74.98 | 76.5 | 1.52 | 2.5 | 4 | | 7.9 | 3.0 | 9999 | 6578 | 0 | 5.0 | 20 | 10 | 42.00 | 3.0 | vpr | |
| 05-SWC-041 | 76.5 | 78.03 | 1.53 | 2.5 | 4 | | 19.6 | 3.0 | 9999 | 6535 | 0 | 5.0 | 20 | 10 | 42.00 | 3.0 | vpr | |
| 05-SWC-041 | 78.03 | 79.55 | 1.52 | 2.5 | 4 | | 11.8 | 3.0 | 9999 | 6578 | 0 | 5.0 | 20 | 10 | 42.00 | 3.0 | vpr | |
| 05-SWC-041 | 79.55 | 81.08 | 1.53 | 2.5 | 4 | | 25.5 | 8.0 | 9999 | 6535 | 0 | 5.0 | 20 | 10 | 47.00 | 3.0 | pr | |
| 05-SWC-041 | 81.08 | 82.6 | 1.52 | 2 | 4 | | 48.7 | 8.0 | 9999 | 6578 | 0 | 5.0 | 20 | 10 | 47.00 | 3.0 | pr | |
| 05-SWC-041 | 82.6 | 84.12 | 1.52 | 3 | 7 | | 15.5 | 3.0 | 9999 | 6578 | 0 | 5.0 | 20 | 10 | 45.00 | 3.0 | pr | |
| 05-SWC-041 | 84.12 | 85.65 | 1.53 | 3 | 7 | | 0.0 | 0.0 | 9999 | 6535 | 0 | 5.0 | 20 | 10 | 42.00 | 3.0 | pr | |
| 05-SWC-041 | 85.65 | 87.17 | 1.52 | 3 | 7 | | 8.6 | 3.0 | 9999 | 6578 | 0 | 5.0 | 20 | 10 | 45.00 | 3.0 | pr | |
| 05-SWC-041 | 87.17 | 88.7 | 1.53 | 3 | 7 | | 50.4 | 13.0 | 13.07 | 9 | 117 | 8.0 | 20 | 10 | 58.00 | 3.0 | pr | |
| 05-SWC-041 | 88.7 | 90.22 | 1.52 | 3 | 7 | | 9.0 | 3.0 | 13.82 | 9 | 110 | 8.0 | 20 | 10 | 48.00 | 3.0 | pr | |
| 05-SWC-041 | 90.22 | 91.74 | 1.52 | 3 | 7 | | 15.5 | 3.0 | 9999 | 6578 | 0 | 5.0 | 18 | 10 | 43.00 | 3.0 | pr | |
| 05-SWC-041 | 91.74 | 92.04 | 0.30 | 3 | 7 | | 100.0 | 20.0 | 9999 | 33330 | 0 | 5.0 | 20 | 10 | 62.00 | 4.0 | pr | |
| 05-SWC-041 | 92.04 | 94.79 | 2.75 | 3 | 7 | | 19.5 | 3.0 | 9999 | 3636 | 0 | 5.0 | 0 | 10 | 25.00 | 2.0 | pr | |
| 05-SWC-041 | 94.79 | 96.32 | 1.53 | 3 | 7 | | 18.4 | 3.0 | 9999 | 6535 | 0 | 5.0 | | 10 | 25.00 | 2.0 | pr | |
| 05-SWC-041 | 96.32 | 97.84 | 1.52 | 3 | 7 | | 45.9 | 8.0 | 6.58 | 4 | 231 | 10.0 | | 10 | 35.00 | 2.0 | pr | |
| 05-SWC-041 | 97.84 | 99.36 | 1.52 | 3 | 7 | | 27.0 | 8.0 | 19.74 | 13 | 77 | 8.0 | | 10 | 33.00 | 2.0 | pr | |
| 05-SWC-041 | 99.36 | 100.89 | 1.53 | 3 | 7 | | 28.8 | 8.0 | 6.54 | 4 | 234 | 10.0 | | 10 | 35.00 | 2.0 | pr | |
| 05-SWC-041 | 100.89 | 102.41 | 1.52 | 3 | 7 | | 53.9 | 13.0 | 7.89 | 5 | 193 | 8.0 | | 10 | 38.00 | 2.0 | pr | |
| 05-SWC-041 | 102.41 | 103.33 | 0.92 | 3 | 7 | | 80.3 | 17.0 | 15.22 | 17 | 60 | 8.0 | | 10 | 42.00 | 3.0 | pr | |
| 05-SWC-041 | 103.33 | 104.85 | 1.52 | 3 | 7 | | 66.7 | 13.0 | 9.21 | 6 | 165 | 8.0 | | 10 | 38.00 | 2.0 | pr | |
| 05-SWC-041 | 104.85 | 105.46 | 0.61 | 3 | 7 | | 25.4 | 8.0 | 6.56 | 11 | 93 | 8.0 | | 10 | 33.00 | 2.0 | pr | |
| 05-SWC-041 | 105.46 | 106.98 | 1.52 | 3 | 7 | | 63.6 | 13.0 | 5.92 | 4 | 257 | 10.0 | | 10 | 40.00 | 2.0 | pr | |
| 05-SWC-041 | 106.98 | 108.57 | 1.59 | 3 | 7 | | 73.1 | 13.0 | 3.92 | 2 | 405 | 10.0 | | 10 | 40.00 | 2.0 | pr | |
| 05-SWC-041 | 108.57 | 110.03 | 1.46 | 3 | 7 | | 93.4 | 20.0 | 3.29 | 2 | 444 | 10.0 | | 10 | 47.00 | 3.0 | pr | |
| 05-SWC-041 | 110.03 | 111.56 | 1.53 | 3 | 7 | | 92.2 | 20.0 | 7.84 | 5 | 195 | 8.0 | | 10 | 45.00 | 3.0 | pr | |
| 05-SWC-041 | 111.56 | 113.08 | 1.52 | 3 | 7 | | 63.2 | 13.0 | 8.55 | 6 | 178 | 8.0 | | 10 | 38.00 | 2.0 | pr | |
| 05-SWC-041 | 113.08 | 114.6 | 1.52 | 3 | 7 | | 50.5 | 13.0 | 5.92 | 4 | 257 | 10.0 | | 10 | 40.00 | 2.0 | pr | |
| 05-SWC-041 | 114.6 | 116.13 | 1.53 | 3 | 7 | | 47.5 | 8.0 | 7.84 | 5 | 195 | 8.0 | | 10 | 33.00 | 2.0 | pr | |
| 05-SWC-041 | 116.13 | 117.65 | 1.52 | 3 | 7 | | 41.4 | 8.0 | 11.18 | 7 | 136 | 8.0 | | 10 | 33.00 | 2.0 | pr | |
| 05-SWC-041 | 117.65 | 119.18 | 1.53 | 3 | 7 | | 15.9 | 3.0 | 1.00 | 1 | 1530 | 16.0 | | 10 | 36.00 | 2.0 | pr | |
| 05-SWC-041 | 119.18 | 120.4 | 1.22 | 3 | 7 | | 61.6 | 13.0 | 7.38 | 6 | 165 | 8.0 | | 10 | 38.00 | 2.0 | pr | |
| 05-SWC-041 | 120.4 | 121.92 | 1.52 | 2 | 4 | | 30.6 | 8.0 | 11.84 | 8 | 128 | 8.0 | | 10 | 30.00 | 2.0 | pr | |
| 05-SWC-041 | 121.92 | 123.44 | 1.52 | 2 | 4 | | 47.0 | 8.0 | 1.00 | 1 | 1520 | 16.0 | 14 | 10 | 52.00 | 3.0 | pr | |
| 05-SWC-041 | 123.44 | 124.97 | 1.53 | 2 | 4 | | 35.9 | 8.0 | 18.95 | 12 | 81 | 8.0 | 14 | 10 | 44.00 | 3.0 | pr | |
| 05-SWC-041 | 124.97 | 126.49 | 1.52 | 3 | 7 | | 21.7 | 3.0 | 1.00 | 1 | 1520 | 16.0 | 14 | 10 | 50.00 | 3.0 | pr | |
| 05-SWC-041 | 126.49 | 128.02 | 1.53 | 3 | 7 | | 88.6 | 17.0 | 3.92 | 3 | 390 | 10.0 | 14 | 10 | 58.00 | 3.0 | pr | |
| 05-SWC-041 | 128.02 | 129.54 | 1.52 | 3 | 7 | | 52.4 | 13.0 | 9.87 | 6 | 154 | 8.0 | 13 | 10 | 51.00 | 3.0 | pr | |
| 05-SWC-041 | 129.54 | 131.06 | 1.52 | 3 | 7 | | 64.8 | 13.0 | 6.58 | 4 | 231 | 10.0 | 14 | 10 | 54.00 | 3.0 | pr | |
| 05-SWC-041 | 131.06 | 132.5 | 1.44 | 3 | 7 | | 95.6 | 20.0 | 2.61 | 2 | 551 | 10.0 | 14 | 10 | 61.00 | 4.0 | pr | |
| 05-SWC-041 | 132.5 | 134.11 | 1.61 | 3 | 7 | | 87.8 | 17.0 | 1.97 | 1 | 816 | 16.0 | 14 | 10 | 64.00 | 4.0 | pr | |
| 05-SWC-041 | 134.11 | 135.64 | 1.53 | 3 | 7 | | 34.0 | 8.0 | 6.54 | 4 | 234 | 10.0 | 14 | 10 | 49.00 | 3.0 | pr | |
| 05-SWC-041 | 135.64 | 135.94 | 0.30 | 3 | 7 | | 38.3 | 8.0 | 3.33 | 11 | 90 | 8.0 | 16 | 10 | 49.00 | 3.0 | pr | |
| 05-SWC-041 | 135.94 | 137.46 | 1.52 | 3 | 7 | | 81.2 | 17.0 | 2.63 | 2 | 578 | 10.0 | 16 | 10 | 60.00 | 3.0 | pr | |
| 05-SWC-041 | 137.46 | 138.99 | 1.53 | 3 | 7 | | 50.3 | 13.0 | 6.54 | 4 | 234 | 10.0 | 14 | 10 | 54.00 | 3.0 | pr | |
| 05-SWC-041 | 138.99 | 140.51 | 1.52 | 3 | 7 | | 95.4 | 20.0 | 3.29 | 2 | 462 | 10.0 | 16 | 10 | 63.00 | 4.0 | pr | |
| 05-SWC-041 | 140.51 | 142.04 | 1.53 | 3 | 7 | | 36.4 | 8.0 | 24.18 | 16 | 63 | 8.0 | 14 | 10 | 47.00 | 3.0 | pr | |
| 05-SWC-041 | 142.04 | 143.56 | 1.52 | 3 | 7 | | 85.2 | 17.0 | 3.95 | 3 | 385 | 10.0 | 16 | 10 | 60.00 | 3.0 | pr | |
| 05-SWC-041 | 143.56 | 145.08 | 1.52 | 3 | 7 | | 77.3 | 17.0 | 7.24 | 5 | 210 | 10.0 | 14 | 10 | 58.00 | 3.0 | pr | |
| 05-SWC-041 | 145.08 | 146.61 | 1.53 | 3 | 7 | | 57.6 | 13.0 | 11.76 | 8 | 130 | 8.0 | 16 | 10 | 54.00 | 3.0 | pr | |
| 05-SWC-041 | 146.61 | 148.13 | 1.52 | 3 | 7 | | 44.7 | 8.0 | 10.53 | 7 | 144 | 8.0 | 16 | 10 | 49.00 | 3.0 | pr | |
| 05-SWC-041 | 148.13 | 149.66 | 1.53 | 3 | 7 | | 70.5 | 13.0 | 2.61 | 2 | 585 | 10.0 | 16 | 10 | 56.00 | 3.0 | pr | |
| 05-SWC-041 | 149.66 | 151.18 | 1.52 | 3 | 7 | | 7.2 | 3.0 | 1.00 | 1 | 1520 | 16.0 | 16 | 10 | 52.00 | 3.0 | pr | |
| 05-SWC-041 | 151.18 | 152.7 | 1.52 | 3 | 7 | | 57.9 | 13.0 | 5.92 | 4 | 257 | 10.0 | 16 | 10 | 56.00 | 3.0 | pr | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05-SWC-041 | 152.7 | 154.23 | 1.53 | 3 | 7 | | 23.6 | 3.0 | 13.73 | 9 | 111 | 8.0 | 16 | 10 | 44.00 | 3.0 | pr | |
| 05-SWC-041 | 154.23 | 155.75 | 1.52 | 3 | 7 | | 44.3 | 8.0 | 3.95 | 3 | 385 | 10.0 | 18 | 10 | 53.00 | 3.0 | pr | |
| 05-SWC-041 | 155.75 | 157.28 | 1.53 | 3 | 7 | | 34.6 | 8.0 | 1.00 | 1 | 1530 | 16.0 | 16 | 10 | 57.00 | 3.0 | pr | |
| 05-SWC-041 | 157.28 | 158.8 | 1.52 | 3 | 7 | | 17.6 | 3.0 | 1.00 | 1 | 1520 | 16.0 | 14 | 10 | 50.00 | 3.0 | pr | |
| 05-SWC-041 | 158.8 | 160.32 | 1.52 | 3 | 7 | | 29.4 | 8.0 | 5.92 | 4 | 257 | 10.0 | 16 | 10 | 51.00 | 3.0 | pr | |
| 05-SWC-041 | 160.32 | 161.85 | 1.53 | 3 | 7 | | 42.2 | 8.0 | 4.58 | 3 | 334 | 10.0 | 16 | 10 | 51.00 | 3.0 | pr | |
| 05-SWC-041 | 161.85 | 163.37 | 1.52 | 3 | 7 | | 64.5 | 13.0 | 3.29 | 2 | 462 | 10.0 | 16 | 10 | 56.00 | 3.0 | pr | |
| 05-SWC-041 | 163.37 | 164.9 | 1.53 | 3 | 7 | | 48.0 | 8.0 | 4.58 | 3 | 334 | 10.0 | | 10 | 35.00 | 2.0 | pr | |
| 05-SWC-041 | 164.9 | 166.42 | 1.52 | 3 | 7 | | 49.1 | 8.0 | 6.58 | 4 | 231 | 10.0 | 0 | 10 | 35.00 | 2.0 | pr | |
| 05-SWC-041 | 166.42 | 167.94 | 1.52 | 3 | 7 | | 63.2 | 13.0 | 6.58 | 4 | 231 | 10.0 | 0 | 10 | 40.00 | 2.0 | pr | |
| 05-SWC-041 | 167.94 | 169.47 | 1.53 | 3 | 7 | | 71.4 | 13.0 | 1.31 | 1 | 1170 | 16.0 | 12 | 10 | 58.00 | 3.0 | pr | |
| 05-SWC-041 | 169.47 | 170.99 | 1.52 | 3 | 7 | | 73.1 | 13.0 | 1.97 | 1 | 770 | 16.0 | 12 | 10 | 58.00 | 3.0 | pr | |
| 05-SWC-041 | 170.99 | 172.52 | 1.53 | 3 | 7 | | 82.2 | 17.0 | 3.92 | 3 | 390 | 10.0 | 6 | 10 | 50.00 | 3.0 | pr | |
| 05-SWC-041 | 172.52 | 174.04 | 1.52 | 3 | 7 | | 16.4 | 3.0 | 9.87 | 6 | 154 | 8.0 | 6 | 10 | 34.00 | 2.0 | pr | |
| 05-SWC-046 | 0.0 | 8.5 | 8.54 | 1.0 | 1 | | 0.0 | 0.0 | 9999 | 1171 | 1 | 5.0 | 16 | 10 | 32.00 | 2.0 | vpr | |
| 05-SWC-046 | 8.5 | 9.5 | 0.91 | 1.0 | 1 | | 0.0 | 0.0 | 9999 | 10932 | 0 | 5.0 | 14 | 10 | 30.00 | 2.0 | vpr | |
| 05-SWC-046 | 9.5 | 11.0 | 1.52 | 1.0 | 1 | | 0.0 | 0.0 | 9999 | 6559 | 0 | 5.0 | 14 | 10 | 30.00 | 2.0 | vpr | |
| 05-SWC-046 | 11.0 | 12.5 | 1.52 | 1.0 | 1 | | 8.3 | 3.0 | 9999 | 6559 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | vpr | |
| 05-SWC-046 | 12.5 | 14.0 | 1.52 | 1.0 | 1 | | 0.0 | 0.0 | 9999 | 6559 | 0 | 5.0 | 16 | 10 | 32.00 | 2.0 | vpr | |
| 05-SWC-046 | 14.0 | 15.5 | 1.52 | 1.0 | 1 | | 0.0 | 0.0 | 9999 | 6559 | 0 | 5.0 | 16 | 10 | 32.00 | 2.0 | vpr | |
| 05-SWC-046 | 15.5 | 17.1 | 1.52 | 1.0 | 1 | | 0.0 | 0.0 | 9999 | 6559 | 0 | 5.0 | 16 | 10 | 32.00 | 2.0 | vpr | |
| 05-SWC-046 | 17.1 | 18.6 | 1.52 | 1.0 | 1 | | 29.3 | 8.0 | 9999 | 6559 | 0 | 5.0 | 1 | 10 | 25.00 | 2.0 | vpr | |
| 05-SWC-046 | 18.6 | 20.1 | 1.52 | 1.0 | 1 | | 30.7 | 8.0 | 9999 | 6559 | 0 | 5.0 | 12 | 10 | 36.00 | 2.0 | vpr | |
| 05-SWC-046 | 20.1 | 21.6 | 1.52 | 1.0 | 1 | | 21.6 | 3.0 | 26.24 | 17 | 58 | 5.0 | 12 | 10 | 31.00 | 2.0 | vpr | |
| 05-SWC-046 | 21.6 | 22.4 | 0.76 | 1.0 | 1 | | 34.1 | 8.0 | 9999 | 13119 | 0 | 5.0 | 12 | 10 | 36.00 | 2.0 | vpr | |
| 05-SWC-046 | 22.4 | 23.9 | 1.52 | 1.0 | 1 | | 15.2 | 3.0 | 9999 | 6559 | 0 | 5.0 | 12 | 10 | 31.00 | 2.0 | vpr | |
| 05-SWC-046 | 23.9 | 25.3 | 1.37 | 1.0 | 1 | | 10.2 | 3.0 | 9999 | 7288 | 0 | 5.0 | 16 | 10 | 35.00 | 2.0 | vpr | |
| 05-SWC-046 | 25.3 | 26.2 | 0.91 | 1.0 | 1 | | 56.0 | 13.0 | 9999 | 10932 | 0 | 5.0 | 18 | 10 | 47.00 | 3.0 | vpr | |
| 05-SWC-046 | 26.2 | 27.7 | 1.52 | 1.0 | 1 | | 64.7 | 13.0 | 10.50 | 7 | 145 | 8.0 | 16 | 10 | 48.00 | 3.0 | vpr | |
| 05-SWC-046 | 27.7 | 29.3 | 1.52 | 1.5 | 1 | | 70.1 | 13.0 | 9.84 | 6 | 155 | 8.0 | 22 | 10 | 54.00 | 3.0 | vpr | |
| 05-SWC-046 | 29.3 | 30.5 | 1.22 | 1.5 | 1 | | 70.5 | 13.0 | 6.56 | 5 | 186 | 8.0 | 18 | 10 | 50.00 | 3.0 | vpr | |
| 05-SWC-046 | 30.5 | 31.7 | 1.22 | 1.5 | 1 | | 72.2 | 13.0 | 8.20 | 7 | 149 | 8.0 | 18 | 10 | 50.00 | 3.0 | vpr | |
| 05-SWC-046 | 31.7 | 32.9 | 1.22 | 1.5 | 1 | | 46.2 | 8.0 | 4.10 | 3 | 297 | 10.0 | 20 | 10 | 49.00 | 3.0 | vpr | |
| 05-SWC-046 | 32.9 | 33.8 | 0.91 | 1.5 | 1 | | 59.9 | 13.0 | 12.03 | 13 | 76 | 8.0 | 20 | 10 | 52.00 | 3.0 | vpr | |
| 05-SWC-046 | 33.8 | 35.4 | 1.52 | 1.5 | 1 | | 25.6 | 8.0 | 9999 | 6559 | 0 | 5.0 | 20 | 10 | 44.00 | 3.0 | vpr | |
| 05-SWC-046 | 35.4 | 36.9 | 1.52 | 1.5 | 1 | | 73.3 | 13.0 | 9999 | 6559 | 0 | 5.0 | 20 | 10 | 49.00 | 3.0 | vpr | |
| 05-SWC-046 | 36.9 | 38.4 | 1.52 | 1.5 | 1 | | 95.1 | 20.0 | 5.90 | 4 | 258 | 10.0 | 20 | 10 | 61.00 | 4.0 | vpr | |
| 05-SWC-046 | 38.4 | 39.9 | 1.52 | 1.5 | 1 | | 57.4 | 13.0 | 9999 | 6559 | 0 | 5.0 | 22 | 10 | 51.00 | 3.0 | vpr | |
| 05-SWC-046 | 39.9 | 41.5 | 1.52 | 2.5 | 2 | | 0.0 | 0.0 | 9999 | 6559 | 0 | 5.0 | 20 | 10 | 37.00 | 2.0 | vpr | |
| 05-SWC-046 | 41.5 | 43.0 | 1.52 | 1.5 | 1 | | 0.0 | 0.0 | 9999 | 6559 | 0 | 5.0 | 12 | 10 | 28.00 | 2.0 | vpr | |
| 05-SWC-046 | 43.0 | 44.5 | 1.52 | 1.5 | 1 | | 26.9 | 8.0 | 9999 | 6559 | 0 | 5.0 | 12 | 10 | 36.00 | 2.0 | vpr | |
| 05-SWC-046 | 44.5 | 46.0 | 1.52 | 1.5 | 1 | | 45.1 | 8.0 | 9999 | 6559 | 0 | 5.0 | 18 | 10 | 42.00 | 3.0 | vpr | |
| 05-SWC-046 | 46.0 | 47.3 | 1.22 | 2 | 4 | | 79.1 | 17.0 | 13.94 | 11 | 87 | 8.0 | 18 | 10 | 57.00 | 3.0 | | |
| 05-SWC-046 | 47.3 | 48.5 | 1.22 | 2 | 4 | | 69.9 | 13.0 | 5.74 | 5 | 212 | 10.0 | 20 | 10 | 57.00 | 3.0 | | |
| 05-SWC-046 | 48.5 | 50.0 | 1.52 | 2 | 4 | | 58.7 | 13.0 | 12.46 | 8 | 122 | 8.0 | 22 | 10 | 57.00 | 3.0 | | |
| 05-SWC-046 | 50.0 | 51.2 | 1.22 | 2 | 4 | | 45.9 | 8.0 | 7.38 | 6 | 165 | 8.0 | 22 | 10 | 52.00 | 3.0 | | |
| 05-SWC-046 | 51.2 | 52.4 | 1.22 | 2 | 4 | | 47.6 | 8.0 | 27.06 | 22 | 45 | 5.0 | 22 | 10 | 49.00 | 3.0 | | |
| 05-SWC-046 | 52.4 | 53.7 | 1.22 | 2 | 4 | | 50.0 | 13.0 | 21.32 | 17 | 57 | 5.0 | 24 | 10 | 56.00 | 3.0 | | |
| 05-SWC-046 | 53.7 | 55.2 | 1.52 | 2 | 4 | | 54.3 | 13.0 | 19.02 | 12 | 80 | 8.0 | 22 | 10 | 57.00 | 3.0 | | |
| 05-SWC-046 | 55.2 | 56.7 | 1.52 | 2 | 4 | | 56.4 | 13.0 | 5.25 | 3 | 290 | 10.0 | 22 | 10 | 59.00 | 3.0 | | |
| 05-SWC-046 | 56.7 | 57.6 | 0.91 | 2 | 4 | | 43.4 | 8.0 | 4.37 | 5 | 209 | 10.0 | 24 | 10 | 56.00 | 3.0 | | |
| 05-SWC-046 | 57.6 | 60.1 | 2.44 | 3 | 7 | | 18.7 | 3.0 | 10.25 | 4 | 238 | 10.0 | 24 | 10 | 54.00 | 3.0 | | |
| 05-SWC-046 | 60.1 | 61.3 | 1.22 | 3 | 7 | | 48.8 | 8.0 | 1.64 | 1 | 744 | 16.0 | 24 | 10 | 65.00 | 4.0 | | |
| 05-SWC-046 | 61.3 | 62.2 | 0.91 | 3 | 7 | | 63.5 | 13.0 | 3.28 | 4 | 279 | 10.0 | | 10 | 40.00 | 2.0 | | |
| 05-SWC-046 | 62.2 | 63.4 | 1.22 | 3 | 7 | | 81.2 | 17.0 | 0.82 | 1 | 1487 | 16.0 | 0 | 10 | 50.00 | 3.0 | | |
| 05-SWC-046 | 63.4 | 64.3 | 0.91 | 3 | 7 | | 54.0 | 13.0 | 5.47 | 6 | 167 | 8.0 | 0 | 10 | 38.00 | 2.0 | | |
| 05-SWC-046 | 64.3 | 65.9 | 1.52 | 2.5 | 4 | | 50.2 | 13.0 | 0.00 | 1 | 1000 | 16.0 | 12 | 10 | 55.00 | 3.0 | | |
| 05-SWC-046 | 65.9 | 67.4 | 1.52 | 3.5 | 7 | | 21.1 | 3.0 | 0.00 | 1 | 1000 | 16.0 | 12 | 10 | 48.00 | 3.0 | | |
| 05-SWC-046 | 67.4 | 68.6 | 1.22 | 2.5 | 4 | | 47.0 | 8.0 | 19.68 | 16 | 62 | 8.0 | | 10 | 30.00 | 2.0 | | |
| 05-SWC-046 | 68.6 | 70.1 | 1.52 | 2.5 | 4 | | 49.2 | 8.0 | 19.68 | 13 | 77 | 8.0 | 12 | 10 | 42.00 | 3.0 | | |
| 05-SWC-046 | 70.1 | 71.6 | 1.52 | 2.5 | 4 | | 74.8 | 13.0 | 7.87 | 5 | 194 | 8.0 | 12 | 10 | 47.00 | 3.0 | | |
| 05-SWC-046 | 71.6 | 73.2 | 1.52 | 2.5 | 4 | | 52.9 | 13.0 | 0.00 | 1 | 1000 | 16.0 | 10 | 10 | 53.00 | 3.0 | | |
| 05-SWC-046 | 73.2 | 75.6 | 2.44 | 2.5 | 4 | | 20.0 | 3.0 | 1.23 | 1 | 1983 | 16.0 | | 10 | 33.00 | 2.0 | | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05-SWC-046 | 75.6 | 76.5 | 0.91 | 3 | 7 | | 0.0 | 0.0 | 0.00 | 1 | 1000 | 16.0 | 14 | 10 | 47.00 | 3.0 | |
| 05-SWC-046 | 76.5 | 78.0 | 1.52 | | 7 | | 28.5 | 8.0 | | 1 | 1000 | 16.0 | 14 | 10 | 55.00 | 3.0 | |
| 05-SWC-046 | 78.0 | 79.6 | 1.52 | 3 | 7 | | 29.1 | 8.0 | 0.00 | 1 | 1000 | 16.0 | | 10 | 41.00 | 3.0 | |
| 05-SWC-046 | 79.6 | 81.1 | 1.52 | 3 | 7 | | 78.1 | 17.0 | 11.15 | 7 | 137 | 8.0 | 14 | 10 | 56.00 | 3.0 | |
| 05-SWC-046 | 81.1 | 82.6 | 1.52 | 3 | 7 | | 55.1 | 13.0 | 6.56 | 4 | 232 | 10.0 | 14 | 10 | 54.00 | 3.0 | |
| 05-SWC-046 | 82.6 | 83.8 | 1.22 | 3 | 7 | | 93.0 | 20.0 | 13.12 | 11 | 93 | 8.0 | 14 | 10 | 59.00 | 3.0 | |
| 05-SWC-046 | 83.8 | 85.4 | 1.52 | 3 | 7 | | 40.7 | 8.0 | 23.62 | 15 | 65 | 8.0 | 14 | 10 | 47.00 | 3.0 | |
| 05-SWC-046 | 85.4 | 86.6 | 1.22 | 3 | 7 | | 43.1 | 8.0 | 15.58 | 13 | 78 | 8.0 | 14 | 10 | 47.00 | 3.0 | |
| 05-SWC-046 | 86.6 | 88.1 | 1.52 | 3 | 7 | | 72.6 | 13.0 | 7.22 | 5 | 211 | 10.0 | 14 | 10 | 54.00 | 3.0 | |
| 05-SWC-046 | 88.1 | 89.3 | 1.22 | 3 | 7 | | 69.3 | 13.0 | 7.38 | 6 | 165 | 8.0 | 14 | 10 | 52.00 | 3.0 | |
| 05-SWC-046 | 89.3 | 90.9 | 1.52 | 3 | 7 | | 59.0 | 13.0 | 8.53 | 6 | 179 | 8.0 | 14 | 10 | 52.00 | 3.0 | |
| 05-SWC-046 | 90.9 | 91.8 | 0.91 | 3 | 7 | | 62.5 | 13.0 | 3.28 | 4 | 279 | 10.0 | 14 | 10 | 54.00 | 3.0 | |
| 05-SWC-046 | 91.8 | 93.3 | 1.52 | 2.5 | 4 | | 32.8 | 8.0 | 15.74 | 10 | 97 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05-SWC-046 | 93.3 | 94.2 | 0.91 | 3 | 7 | | 100.0 | 20.0 | 9.84 | 11 | 93 | 8.0 | 14 | 10 | 59.00 | 3.0 | |
| 05-SWC-046 | 94.2 | 95.7 | 1.52 | 3 | 7 | | 77.3 | 17.0 | 4.59 | 3 | 332 | 10.0 | 14 | 10 | 58.00 | 3.0 | |
| 05-SWC-046 | 95.7 | 96.8 | 1.07 | 1 | 1 | | 0.0 | 0.0 | 0.00 | 1 | 1000 | 16.0 | 14 | 10 | 41.00 | 3.0 | |
| 05-SWC-046 | 96.8 | 97.9 | 1.07 | 2 | 4 | | 41.7 | 8.0 | 0.00 | 1 | 1000 | 16.0 | 14 | 10 | 52.00 | 3.0 | |
| 05-SWC-046 | 97.9 | 99.1 | 1.22 | 3 | 7 | | 81.7 | 17.0 | 9.02 | 7 | 135 | 8.0 | 14 | 10 | 56.00 | 3.0 | |
| 05-SWC-046 | 99.1 | 100.3 | 1.22 | 1 | 1 | | 25.7 | 8.0 | 0.00 | 1 | 1000 | 16.0 | 14 | 10 | 49.00 | 3.0 | |
| 05-SWC-046 | 100.3 | 101.8 | 1.52 | 3 | 7 | | 68.9 | 13.0 | 7.22 | 5 | 211 | 10.0 | 14 | 10 | 54.00 | 3.0 | |
| 05-SWC-046 | 101.8 | 103.0 | 1.22 | 3 | 7 | | 55.7 | 13.0 | 6.56 | 5 | 186 | 8.0 | 0 | 10 | 38.00 | 2.0 | |
| 05-SWC-046 | 103.0 | 104.6 | 1.52 | 3 | 7 | | 78.3 | 17.0 | 5.25 | 3 | 290 | 10.0 | 14 | 10 | 58.00 | 3.0 | |
| 05-SWC-046 | 104.6 | 105.8 | 1.22 | 3 | 7 | | 97.3 | 20.0 | 7.38 | 6 | 165 | 8.0 | 14 | 10 | 59.00 | 3.0 | |
| 05-SWC-046 | 105.8 | 107.0 | 1.22 | 3 | 7 | | 83.8 | 17.0 | 9.84 | 8 | 124 | 8.0 | 14 | 10 | 56.00 | 3.0 | |
| 05-SWC-046 | 107.0 | 108.2 | 1.22 | 4 | 12 | | 86.1 | 17.0 | 9.02 | 7 | 135 | 8.0 | 14 | 10 | 61.00 | 4.0 | |
| 05-SWC-046 | 108.2 | 109.8 | 1.52 | 4 | 12 | | 49.1 | 8.0 | 11.81 | 8 | 129 | 8.0 | 14 | 10 | 52.00 | 3.0 | |
| 05-SWC-046 | 109.8 | 111.0 | 1.22 | 4 | 12 | | 82.0 | 17.0 | 7.38 | 6 | 165 | 8.0 | 14 | 10 | 61.00 | 4.0 | |
| 05-SWC-046 | 111.0 | 112.5 | 1.52 | 4 | 12 | | 75.4 | 17.0 | 12.46 | 8 | 122 | 8.0 | 14 | 10 | 61.00 | 4.0 | |
| 05-SWC-046 | 112.5 | 113.7 | 1.22 | 4 | 12 | | 76.8 | 17.0 | 4.10 | 3 | 297 | 10.0 | 14 | 10 | 63.00 | 4.0 | |
| 05-SWC-046 | 113.7 | 115.4 | 1.68 | 4 | 12 | | 76.8 | 17.0 | 4.17 | 2 | 402 | 10.0 | 14 | 10 | 63.00 | 4.0 | |
| 05-SWC-046 | 115.4 | 116.8 | 1.37 | 4 | 12 | | 57.1 | 13.0 | 7.29 | 5 | 188 | 8.0 | 14 | 10 | 57.00 | 3.0 | |
| 05-SWC-046 | 116.8 | 118.3 | 1.52 | 4 | 12 | | 95.3 | 20.0 | 7.87 | 5 | 194 | 8.0 | 14 | 10 | 64.00 | 4.0 | |
| 05-SWC-046 | 118.3 | 119.2 | 0.91 | 4 | 12 | | 58.7 | 13.0 | 7.65 | 8 | 120 | 8.0 | 14 | 10 | 57.00 | 3.0 | |
| 05-SWC-046 | 119.2 | 120.7 | 1.52 | 4 | 12 | | 88.8 | 17.0 | 5.90 | 4 | 258 | 10.0 | 14 | 10 | 63.00 | 4.0 | |
| 05-SWC-046 | 120.7 | 121.6 | 0.91 | 4 | 12 | | 70.4 | 13.0 | 4.37 | 5 | 209 | 10.0 | 14 | 10 | 59.00 | 3.0 | |
| 05-SWC-046 | 121.6 | 122.9 | 1.22 | 4 | 12 | | 77.2 | 17.0 | 1.64 | 1 | 744 | 16.0 | 14 | 10 | 69.00 | 4.0 | |
| 05-SWC-046 | 122.9 | 123.8 | 0.91 | 4 | 12 | | 79.6 | 17.0 | 6.56 | 7 | 139 | 8.0 | 14 | 10 | 61.00 | 4.0 | |
| 05-SWC-046 | 123.8 | 125.3 | 1.52 | | 12 | | 84.8 | 17.0 | | 1 | 1000 | 16.0 | 14 | 10 | 69.00 | 4.0 | |
| 05-SWC-046 | 125.3 | 126.2 | 0.91 | 4 | 12 | | 84.4 | 17.0 | 0.82 | 1 | 1115 | 16.0 | 14 | 10 | 69.00 | 4.0 | |
| 05-SWC-046 | 126.2 | 127.7 | 1.52 | 4 | 12 | | 67.6 | 13.0 | 6.56 | 4 | 232 | 10.0 | 14 | 10 | 59.00 | 3.0 | |
| 05-SWC-046 | 127.7 | 128.4 | 0.61 | 4 | 12 | | 58.1 | 13.0 | 1.64 | 3 | 372 | 10.0 | 14 | 10 | 59.00 | 3.0 | |
| 05-SWC-046 | 128.4 | 129.9 | 1.52 | 4 | 12 | | 84.0 | 17.0 | 3.94 | 3 | 387 | 10.0 | 14 | 10 | 63.00 | 4.0 | |
| 05-SWC-046 | 129.9 | 131.1 | 1.22 | 4 | 12 | | 75.2 | 17.0 | 2.46 | 2 | 496 | 10.0 | 14 | 10 | 63.00 | 4.0 | |
| 05-SWC-046 | 131.1 | 132.3 | 1.22 | 4 | 12 | | 71.3 | 13.0 | 6.56 | 5 | 186 | 8.0 | 0 | 10 | 43.00 | 3.0 | |
| 05-SWC-046 | 132.3 | 133.5 | 1.22 | 4 | 12 | | 54.2 | 13.0 | 24.60 | 20 | 50 | 5.0 | 0 | 10 | 40.00 | 2.0 | |
| 05-SWC-046 | 133.5 | 134.5 | 0.91 | 4 | 12 | | 91.8 | 20.0 | 10.93 | 12 | 84 | 8.0 | 14 | 10 | 64.00 | 4.0 | |
| 05-SWC-046 | 134.5 | 135.7 | 1.22 | 4 | 12 | | 77.9 | 17.0 | 4.10 | 3 | 297 | 10.0 | 14 | 10 | 63.00 | 4.0 | |
| 05-SWC-046 | 135.7 | 137.2 | 1.52 | 4 | 12 | | 77.9 | 17.0 | 4.59 | 3 | 332 | 10.0 | 14 | 10 | 63.00 | 4.0 | |
| 05-SWC-046 | 137.2 | 138.9 | 1.68 | 4 | 12 | | 70.4 | 13.0 | 3.58 | 2 | 469 | 10.0 | 14 | 10 | 59.00 | 3.0 | |
| 05-SWC-046 | 138.9 | 140.1 | 1.22 | 4 | 12 | | 123.2 | 20.0 | 5.74 | 5 | 212 | 10.0 | 14 | 10 | 66.00 | 4.0 | |
| 05-SWC-046 | 140.1 | 141.2 | 1.07 | 4 | 12 | | 57.4 | 13.0 | 5.62 | 5 | 190 | 8.0 | 14 | 10 | 57.00 | 3.0 | |
| 05-SWC-046 | 141.2 | 142.7 | 1.52 | 4 | 12 | | 93.8 | 20.0 | 3.94 | 3 | 387 | 10.0 | 14 | 10 | 66.00 | 4.0 | |
| 05-SWC-046 | 142.7 | 143.6 | 0.91 | 4 | 12 | | 41.0 | 8.0 | 10.93 | 12 | 84 | 8.0 | 14 | 10 | 52.00 | 3.0 | |
| 05-SWC-046 | 143.6 | 145.1 | 1.52 | 4 | 12 | | 70.3 | 13.0 | 8.53 | 6 | 179 | 8.0 | 14 | 10 | 57.00 | 3.0 | |
| 05-SWC-046 | 145.1 | 146.6 | 1.52 | 4 | 12 | | 78.3 | 17.0 | 4.59 | 3 | 332 | 10.0 | 14 | 10 | 63.00 | 4.0 | |
| 05-SWC-046 | 146.6 | 147.6 | 0.91 | 4 | 12 | | 62.5 | 13.0 | 1.09 | 1 | 837 | 16.0 | 14 | 10 | 65.00 | 4.0 | |
| 05-SWC-046 | 147.6 | 149.1 | 1.52 | 4 | 12 | | 57.4 | 13.0 | 5.25 | 3 | 290 | 10.0 | 14 | 10 | 59.00 | 3.0 | |
| 05-SWC-046 | 149.1 | 150.6 | 1.52 | 4 | 12 | | 80.7 | 17.0 | 4.59 | 3 | 332 | 10.0 | 14 | 10 | 63.00 | 4.0 | |
| 05-SWC-046 | 150.6 | 153.0 | 2.44 | 4 | 12 | | 49.7 | 8.0 | 6.97 | 3 | 350 | 10.0 | 14 | 10 | 54.00 | 3.0 | |
| 05-SWC-046 | 153.0 | 154.6 | 1.52 | 4 | 12 | | 69.3 | 13.0 | 3.28 | 2 | 465 | 10.0 | 14 | 10 | 59.00 | 3.0 | |
| 05-SWC-046 | 154.6 | 156.1 | 1.52 | 4 | 12 | | 49.2 | 8.0 | 13.12 | 9 | 116 | 8.0 | 14 | 10 | 52.00 | 3.0 | |
| 05-SWC-046 | 156.1 | 157.6 | 1.52 | 4 | 12 | | 71.4 | 13.0 | 9.18 | 6 | 166 | 8.0 | 14 | 10 | 57.00 | 3.0 | |
| 05-SWC-046 | 157.6 | 159.1 | 1.52 | 4 | 12 | | 60.7 | 13.0 | 9.18 | 6 | 166 | 8.0 | 14 | 10 | 57.00 | 3.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05-SWC-046 | 159.1 | 160.7 | 1.52 | 4 | 12 | | 83.0 | 17.0 | 0.00 | 1 | 1000 | 16.0 | 14 | 10 | 69.00 | 4.0 | |
| 05-SWC-046 | 160.7 | 162.2 | 1.52 | 4 | 12 | | 82.5 | 17.0 | 6.56 | 4 | 232 | 10.0 | 14 | 10 | 63.00 | 4.0 | |
| 05-SWC-046 | 162.2 | 163.7 | 1.52 | 4 | 12 | | 82.1 | 17.0 | 5.25 | 3 | 290 | 10.0 | 14 | 10 | 63.00 | 4.0 | |
| 05-SWC-046 | 163.7 | 165.2 | 1.52 | 4 | 12 | | 93.2 | 20.0 | 3.94 | 3 | 387 | 10.0 | 14 | 10 | 66.00 | 4.0 | |
| 05-SWC-046 | 165.2 | 167.1 | 1.83 | 4 | 12 | | 72.3 | 13.0 | 2.73 | 1 | 669 | 16.0 | 14 | 10 | 65.00 | 4.0 | |
| 05-SWC-046 | 167.1 | 168.3 | 1.22 | 4 | 12 | | 83.6 | 17.0 | 5.74 | 5 | 212 | 10.0 | 14 | 10 | 63.00 | 4.0 | |
| 05-SWC-046 | 168.3 | 170.1 | 1.83 | 4 | 12 | | 87.5 | 17.0 | 8.20 | 4 | 223 | 10.0 | 14 | 10 | 63.00 | 4.0 | |
| 05-SWC-046 | 170.1 | 171.6 | 1.52 | 4 | 12 | | 71.5 | 13.0 | 1.97 | 1 | 775 | 16.0 | 16 | 10 | 67.00 | 4.0 | |
| 05-SWC-047 | 0 | 12.8 | 12.80 | 0 | 0 | | 0.0 | 0.0 | 9999 | 781 | 1 | 5.0 | 16 | 10 | 31.00 | 2.0 | |
| 05-SWC-047 | 12.8 | 14.33 | 1.53 | 0 | 0 | | 0.0 | 0.0 | 9999 | 6535 | 0 | 5.0 | 16 | 10 | 31.00 | 2.0 | |
| 05-SWC-047 | 14.33 | 15.85 | 1.52 | 3 | 7 | | 27.0 | 8.0 | 4.9 | 3 | 308 | 10.0 | 16 | 10 | 51.00 | 3.0 | |
| 05-SWC-047 | 15.85 | 16.76 | 0.91 | 1 | 1 | | 44.0 | 8.0 | 0.0 | 1 | 1000 | 16.0 | 16 | 10 | 51.00 | 3.0 | |
| 05-SWC-047 | 16.76 | 17.98 | 1.22 | 2 | 4 | | 20.5 | 3.0 | 27.8 | 23 | 44 | 5.0 | 16 | 10 | 38.00 | 2.0 | |
| 05-SWC-047 | 17.98 | 19.81 | 1.83 | 1 | 1 | | 0.0 | 0.0 | 0.00 | 1 | 1000 | 16.0 | 16 | 10 | 43.00 | 3.0 | |
| 05-SWC-047 | 19.81 | 21.95 | 2.14 | 2 | 4 | | 30.7 | 8.0 | 10.1 | 5 | 211 | 10.0 | 16 | 10 | 48.00 | 3.0 | |
| 05-SWC-047 | 21.95 | 23.47 | 1.52 | 3 | 7 | | 45.4 | 8.0 | 2.1 | 1 | 714 | 16.0 | 16 | 10 | 57.00 | 3.0 | |
| 05-SWC-047 | 23.47 | 24.99 | 1.52 | 2 | 4 | | 14.5 | 3.0 | 8.8 | 6 | 172 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05-SWC-047 | 24.99 | 26.52 | 1.53 | 2 | 4 | | 14.7 | 3.0 | 7.0 | 5 | 218 | 10.0 | 16 | 10 | 43.00 | 3.0 | |
| 05-SWC-047 | 26.52 | 28.04 | 1.52 | 2 | 4 | | 68.0 | 13.0 | 12.8 | 8 | 119 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05-SWC-047 | 28.04 | 29.57 | 1.53 | 2 | 4 | | 64.8 | 13.0 | 12.8 | 8 | 119 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05-SWC-047 | 29.57 | 31.09 | 1.52 | 3 | 7 | | 10.9 | 3.0 | 0.0 | 1 | 1000 | 16.0 | 16 | 10 | 52.00 | 3.0 | |
| 05-SWC-047 | 31.09 | 32.61 | 1.52 | 3 | 7 | | 38.5 | 8.0 | 6.2 | 4 | 244 | 10.0 | 16 | 10 | 51.00 | 3.0 | |
| 05-SWC-047 | 32.61 | 34.14 | 1.53 | 3 | 7 | | 44.4 | 8.0 | 6.2 | 4 | 245 | 10.0 | 16 | 10 | 51.00 | 3.0 | |
| 05-SWC-047 | 34.14 | 35.66 | 1.52 | 3 | 7 | | 16.9 | 3.0 | 6.2 | 4 | 244 | 10.0 | 16 | 10 | 46.00 | 3.0 | |
| 05-SWC-047 | 35.66 | 37.19 | 1.53 | 1 | 1 | | 51.0 | 13.0 | 23.0 | 15 | 67 | 8.0 | 16 | 10 | 48.00 | 3.0 | |
| 05-SWC-047 | 37.19 | 38.71 | 1.52 | 3 | 7 | | 98.4 | 20.0 | 3.3 | 2 | 462 | 10.0 | 16 | 10 | 63.00 | 4.0 | |
| 05-SWC-047 | 38.71 | 40.23 | 1.52 | 3 | 7 | | 90.8 | 20.0 | 1.3 | 1 | 1155 | 16.0 | 16 | 10 | 69.00 | 4.0 | |
| 05-SWC-047 | 40.23 | 41.76 | 1.53 | 3 | 7 | | 79.0 | 17.0 | 2.6 | 2 | 585 | 10.0 | 6 | 10 | 50.00 | 3.0 | |
| 05-SWC-047 | 41.76 | 43.28 | 1.52 | 3 | 7 | | 97.9 | 20.0 | 2.70 | 2 | 563 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 43.28 | 44.81 | 1.53 | 3 | 7 | | 92.7 | 20.0 | 3.30 | 2 | 464 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 44.81 | 46.33 | 1.52 | 3 | 7 | | 73.4 | 13.0 | 5.3 | 3 | 289 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 46.33 | 47.85 | 1.52 | 3 | 7 | | 88.8 | 17.0 | 2.6 | 2 | 578 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 47.85 | 49.38 | 1.53 | 3 | 7 | | 84.0 | 17.0 | 1.3 | 1 | 1170 | 16.0 | 18 | 10 | 68.00 | 4.0 | |
| 05-SWC-047 | 49.38 | 50.9 | 1.52 | 3 | 7 | | 91.1 | 20.0 | 4.6 | 3 | 330 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 50.9 | 52.43 | 1.53 | 3 | 7 | | 53.6 | 13.0 | 3.9 | 3 | 390 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 52.43 | 53.95 | 1.52 | 3 | 7 | | 109.2 | 20.0 | 5.1 | 3 | 301 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 53.95 | 55.47 | 1.52 | 3 | 7 | | 94.6 | 20.0 | 0.0 | 1 | 1000 | 16.0 | 18 | 10 | 71.00 | 4.0 | |
| 05-SWC-047 | 55.47 | 57 | 1.53 | 2 | 4 | | 77.0 | 17.0 | 3.4 | 2 | 451 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05-SWC-047 | 57 | 58.52 | 1.52 | 3 | 7 | | 75.7 | 17.0 | 2.4 | 2 | 641 | 16.0 | 18 | 10 | 68.00 | 4.0 | |
| 05-SWC-047 | 58.52 | 60.05 | 1.53 | 3 | 7 | | 69.3 | 13.0 | 0.0 | 1 | 1000 | 16.0 | 18 | 10 | 64.00 | 4.0 | |
| 05-SWC-047 | 60.05 | 61.57 | 1.52 | 1.5 | 1 | | 87.6 | 17.0 | 4.1 | 3 | 367 | 10.0 | 18 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 61.57 | 63.09 | 1.52 | 3 | 7 | | 73.0 | 13.0 | 5.9 | 4 | 257 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 63.09 | 64.62 | 1.53 | 3 | 7 | | 68.5 | 13.0 | 2.6 | 2 | 581 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 64.62 | 66.15 | 1.53 | 3 | 7 | | 64.4 | 13.0 | 4.7 | 3 | 326 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 66.15 | 67.67 | 1.52 | 3 | 7 | | 80.9 | 17.0 | 4.6 | 3 | 332 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 67.67 | 69.19 | 1.52 | 3 | 7 | | 75.1 | 17.0 | 2.6 | 2 | 578 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 69.19 | 70.71 | 1.52 | 3 | 7 | | 94.8 | 20.0 | 3.3 | 2 | 462 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 70.71 | 72.24 | 1.53 | 3 | 7 | | 69.6 | 13.0 | 5.2 | 3 | 293 | 10.0 | 16 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 72.24 | 73.76 | 1.52 | 2 | 4 | | 30.9 | 8.0 | 25.1 | 17 | 61 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05-SWC-047 | 73.76 | 75.29 | 1.53 | 3 | 7 | | 64.6 | 13.0 | 3.5 | 2 | 440 | 10.0 | 16 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 75.29 | 76.81 | 1.52 | 3 | 7 | | 77.5 | 17.0 | 4.6 | 3 | 330 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 76.81 | 78.33 | 1.52 | 3 | 7 | | 72.0 | 13.0 | 8.7 | 6 | 175 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 78.33 | 79.86 | 1.53 | 3 | 7 | | 35.8 | 8.0 | 3.7 | 2 | 413 | 10.0 | 18 | 10 | 53.00 | 3.0 | |
| 05-SWC-047 | 79.86 | 81.38 | 1.52 | 3 | 7 | | 68.4 | 13.0 | 3.6 | 2 | 427 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 81.38 | 85.95 | 4.57 | 3 | 7 | | 29.2 | 8.0 | 2.0 | 0 | 2315 | 20.0 | 18 | 10 | 63.00 | 4.0 | |
| 05-SWC-047 | 85.95 | 87.47 | 1.52 | 3 | 7 | | 92.8 | 20.0 | 3.9 | 3 | 388 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 87.47 | 89 | 1.53 | 3 | 7 | | 80.4 | 17.0 | 5.5 | 4 | 278 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 89 | 90.82 | 1.82 | 3 | 7 | | 77.5 | 17.0 | 5.5 | 3 | 331 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 90.82 | 92.35 | 1.53 | 3 | 7 | | 49.0 | 8.0 | 9.2 | 6 | 167 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05-SWC-047 | 92.35 | 93.87 | 1.52 | 3 | 7 | | 63.4 | 13.0 | 7.9 | 5 | 193 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 93.87 | 95.4 | 1.53 | 3 | 7 | | 63.4 | 13.0 | 52.1 | 34 | 29 | 5.0 | | 10 | 35.00 | 2.0 | |
| 05-SWC-047 | 95.4 | 96.92 | 1.52 | 3 | 7 | | 85.1 | 17.0 | 0.0 | 1 | 1000 | 16.0 | 12 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 96.92 | 98.44 | 1.52 | 3 | 7 | | 86.8 | 17.0 | 2.6 | 2 | 595 | 10.0 | 12 | 10 | 56.00 | 3.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05-SWC-047 | 98.44 | 99.97 | 1.53 | 3 | 7 | | 74.5 | 13.0 | 4.6 | 3 | 334 | 10.0 | 0 | 10 | 40.00 | 2.0 | |
| 05-SWC-047 | 99.97 | 101.49 | 1.52 | 3 | 7 | | 75.9 | 17.0 | 3.9 | 3 | 385 | 10.0 | 12 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 101.49 | 103.02 | 1.53 | 3 | 7 | | 81.0 | 17.0 | 3.9 | 3 | 390 | 10.0 | 12 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 103.02 | 104.55 | 1.53 | 3 | 7 | | 93.1 | 20.0 | 3.2 | 2 | 472 | 10.0 | 12 | 10 | 59.00 | 3.0 | |
| 05-SWC-047 | 104.55 | 106.07 | 1.52 | 2 | 4 | | 67.4 | 13.0 | 4.0 | 3 | 376 | 10.0 | 12 | 10 | 49.00 | 3.0 | |
| 05-SWC-047 | 106.07 | 107.59 | 1.52 | 2 | 4 | | 63.5 | 13.0 | 5.9 | 4 | 258 | 10.0 | 12 | 10 | 49.00 | 3.0 | |
| 05-SWC-047 | 107.59 | 109.12 | 1.53 | 2 | 4 | | 66.5 | 13.0 | 10.5 | 7 | 145 | 8.0 | 12 | 10 | 47.00 | 3.0 | |
| 05-SWC-047 | 109.12 | 110.64 | 1.52 | 2 | 4 | | 32.6 | 8.0 | 14.5 | 10 | 105 | 8.0 | 12 | 10 | 42.00 | 3.0 | |
| 05-SWC-047 | 110.64 | 112.16 | 1.52 | 2 | 4 | | 21.3 | 3.0 | 14.4 | 9 | 106 | 8.0 | 12 | 10 | 37.00 | 2.0 | |
| 05-SWC-047 | 112.16 | 113.69 | 1.53 | 3 | 7 | | 26.4 | 8.0 | 9.2 | 6 | 166 | 8.0 | 12 | 10 | 45.00 | 3.0 | |
| 05-SWC-047 | 113.69 | 115.21 | 1.52 | 3 | 7 | | 49.3 | 8.0 | 12.5 | 8 | 122 | 8.0 | 10 | 10 | 43.00 | 3.0 | |
| 05-SWC-047 | 115.21 | 116.73 | 1.52 | 2 | 4 | | 33.6 | 8.0 | 18.3 | 12 | 83 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05-SWC-047 | 116.73 | 118.26 | 1.53 | 2 | 4 | | 32.7 | 8.0 | 23.3 | 15 | 66 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05-SWC-047 | 118.26 | 119.79 | 1.53 | 2 | 4 | | 47.6 | 8.0 | 0.0 | 1 | 1000 | 16.0 | 16 | 10 | 54.00 | 3.0 | |
| 05-SWC-047 | 119.79 | 121.3 | 1.51 | 2 | 4 | | 6.7 | 3.0 | 7.8 | 5 | 193 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05-SWC-047 | 121.3 | 122.83 | 1.53 | 2 | 4 | | 43.1 | 8.0 | 16.4 | 11 | 93 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05-SWC-047 | 122.83 | 124.35 | 1.52 | 2 | 4 | | 17.6 | 3.0 | 12.4 | 8 | 122 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05-SWC-047 | 124.35 | 125.88 | 1.53 | 2 | 4 | | 0.0 | 0.0 | 13.1 | 9 | 117 | 8.0 | 16 | 10 | 38.00 | 2.0 | |
| 05-SWC-047 | 125.88 | 127.41 | 1.53 | 2 | 4 | | 0.0 | 0.0 | 22.5 | 15 | 68 | 8.0 | 16 | 10 | 38.00 | 2.0 | |
| 05-SWC-047 | 127.41 | 128.92 | 1.51 | 2 | 4 | | 35.8 | 8.0 | 22.2 | 15 | 68 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05-SWC-047 | 128.92 | 130.45 | 1.53 | 3 | 7 | | 22.2 | 3.0 | 27.6 | 18 | 55 | 5.0 | 16 | 10 | 41.00 | 3.0 | |
| 05-SWC-047 | 130.45 | 131.97 | 1.52 | 3 | 7 | | 42.8 | 8.0 | 13.1 | 9 | 116 | 8.0 | 16 | 10 | 49.00 | 3.0 | |
| 05-SWC-047 | 131.97 | 133.5 | 1.53 | 3 | 7 | | 45.1 | 8.0 | 11.7 | 8 | 131 | 8.0 | 16 | 10 | 49.00 | 3.0 | |
| 05-SWC-047 | 133.5 | 135.03 | 1.53 | 2 | 4 | | 69.6 | 13.0 | 0.0 | 1 | 1000 | 16.0 | 16 | 10 | 59.00 | 3.0 | |
| 05-SWC-047 | 135.03 | 136.55 | 1.52 | 2 | 4 | | 21.3 | 3.0 | 0.0 | 1 | 1000 | 16.0 | 16 | 10 | 49.00 | 3.0 | |
| 05-SWC-047 | 136.55 | 138.07 | 1.52 | 3 | 7 | | 9.2 | 3.0 | 15.0 | 10 | 101 | 8.0 | 18 | 10 | 46.00 | 3.0 | |
| 05-SWC-047 | 138.07 | 139.6 | 1.53 | 3 | 7 | | 30.1 | 8.0 | 9.3 | 6 | 165 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05-SWC-047 | 139.6 | 141.11 | 1.51 | 3 | 7 | | 36.6 | 8.0 | 6.5 | 4 | 231 | 10.0 | 20 | 10 | 55.00 | 3.0 | |
| 05-SWC-047 | 141.11 | 142.64 | 1.53 | 3 | 7 | | 66.1 | 13.0 | 13.1 | 9 | 117 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 142.64 | 144.17 | 1.53 | 3 | 7 | | 41.2 | 8.0 | 14.5 | 9 | 106 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05-SWC-047 | 144.17 | 145.69 | 1.52 | 3 | 7 | | 17.8 | 3.0 | 5.9 | 4 | 258 | 10.0 | 18 | 10 | 48.00 | 3.0 | |
| 05-SWC-047 | 145.69 | 147.21 | 1.52 | 1 | 1 | | 46.7 | 8.0 | 0.0 | 1 | 1000 | 16.0 | 20 | 10 | 55.00 | 3.0 | |
| 05-SWC-047 | 147.21 | 148.74 | 1.53 | 3 | 7 | | 77.2 | 17.0 | 14.1 | 9 | 108 | 8.0 | 20 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 148.74 | 150.27 | 1.53 | 3 | 7 | | 55.7 | 13.0 | 3.3 | 2 | 468 | 10.0 | 20 | 10 | 60.00 | 3.0 | |
| 05-SWC-047 | 150.27 | 151.79 | 1.52 | 3 | 7 | | 91.3 | 20.0 | 6.6 | 4 | 231 | 10.0 | 20 | 10 | 67.00 | 4.0 | |
| 05-SWC-047 | 151.79 | 153.31 | 1.52 | 5 | 15 | | 94.0 | 20.0 | 0.0 | 1 | 1000 | 16.0 | 20 | 10 | 81.00 | 5.0 | |
| 05-SWC-047 | 153.31 | 154.84 | 1.53 | 3 | 7 | | 68.4 | 13.0 | 3.3 | 2 | 469 | 10.0 | 20 | 10 | 60.00 | 3.0 | |
| 05-SWC-047 | 154.84 | 156.36 | 1.52 | 3 | 7 | | 76.7 | 17.0 | 1.3 | 1 | 1163 | 16.0 | 20 | 10 | 70.00 | 4.0 | |
| 05-SWC-047 | 156.36 | 157.89 | 1.53 | 2 | 4 | | 86.1 | 17.0 | 0.0 | 1 | 1000 | 16.0 | 20 | 10 | 67.00 | 4.0 | |
| 05-SWC-047 | 157.89 | 159.41 | 1.52 | 2 | 4 | | 20.9 | 3.0 | 0.0 | 1 | 1000 | 16.0 | 20 | 10 | 53.00 | 3.0 | |
| 05-SWC-047 | 159.41 | 160.93 | 1.52 | 3 | 7 | | 10.7 | 3.0 | 9.8 | 6 | 155 | 8.0 | 18 | 10 | 46.00 | 3.0 | |
| 05-SWC-047 | 160.93 | 162.46 | 1.53 | 3 | 7 | | 72.9 | 13.0 | 11.8 | 8 | 129 | 8.0 | 20 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 162.46 | 163.98 | 1.52 | 3 | 7 | | 52.6 | 13.0 | 7.9 | 5 | 193 | 8.0 | | 10 | 38.00 | 2.0 | |
| 05-SWC-047 | 163.98 | 165.5 | 1.52 | 2 | 4 | | 65.1 | 13.0 | 0.0 | 1 | 1000 | 16.0 | 10 | 10 | 53.00 | 3.0 | |
| 05-SWC-047 | 165.5 | 167.02 | 1.52 | 3 | 7 | | 18.0 | 3.0 | 19.1 | 13 | 80 | 8.0 | 10 | 10 | 38.00 | 2.0 | |
| 05-SWC-047 | 167.02 | 168.55 | 1.53 | 3 | 7 | | 46.5 | 8.0 | 10.5 | 7 | 145 | 8.0 | 10 | 10 | 43.00 | 3.0 | |
| 05-SWC-047 | 168.55 | 170.08 | 1.53 | 3 | 7 | | 23.5 | 3.0 | 17.0 | 11 | 90 | 8.0 | 10 | 10 | 38.00 | 2.0 | |
| 05-SWC-047 | 170.08 | 171.6 | 1.52 | 3 | 7 | | 40.8 | 8.0 | 12.3 | 8 | 124 | 8.0 | 0 | 10 | 33.00 | 2.0 | |
| 05-SWC-047 | 171.6 | 173.13 | 1.53 | 5 | 15 | | 31.8 | 8.0 | 7.1 | 5 | 214 | 10.0 | 0 | 10 | 43.00 | 3.0 | |
| 05-SWC-047 | 173.13 | 174.65 | 1.52 | 3 | 7 | | 53.2 | 13.0 | 13.1 | 9 | 116 | 8.0 | 10 | 10 | 48.00 | 3.0 | |
| 05-SWC-047 | 174.65 | 176.25 | 1.60 | 3 | 7 | | 72.4 | 13.0 | 2.5 | 2 | 640 | 16.0 | 10 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 176.25 | 177.7 | 1.45 | 3 | 7 | | 58.3 | 13.0 | 3.4 | 2 | 420 | 10.0 | 10 | 10 | 50.00 | 3.0 | |
| 05-SWC-047 | 177.7 | 180 | 2.30 | 3 | 7 | | 70.5 | 13.0 | 3.0 | 1 | 756 | 16.0 | 10 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 0.0 | 3.7 | 3.66 | | 0 | | 0.0 | 0.0 | 0.00 | 1 | 1000 | 16.0 | 10 | 10 | 36.00 | 2.0 | |
| 05-SWC-047 | 3.7 | 5.2 | 1.52 | 3 | 7 | | 32.8 | 8.0 | 9.18 | 6 | 166 | 8.0 | 10 | 10 | 43.00 | 3.0 | |
| 05-SWC-047 | 5.2 | 5.8 | 0.61 | 3 | 7 | | 19.7 | 3.0 | 0.00 | 1 | 1000 | 16.0 | 10 | 10 | 46.00 | 3.0 | |
| 05-SWC-047 | 5.8 | 6.4 | 0.61 | 1 | 1 | | 23.0 | 3.0 | 0.00 | 1 | 1000 | 16.0 | 10 | 10 | 40.00 | 2.0 | |
| 05-SWC-047 | 6.4 | 7.3 | 0.91 | 3 | 7 | | 30.6 | 8.0 | 14.43 | 16 | 63 | 8.0 | 12 | 10 | 45.00 | 3.0 | |
| 05-SWC-047 | 7.3 | 8.8 | 1.52 | 1 | 1 | | 36.1 | 8.0 | 0.00 | 1 | 1000 | 16.0 | 13 | 10 | 48.00 | 3.0 | |
| 05-SWC-047 | 8.8 | 10.1 | 1.22 | 3 | 7 | | 18.9 | 3.0 | 9.84 | 8 | 124 | 8.0 | 12 | 10 | 40.00 | 2.0 | |
| 05-SWC-047 | 10.1 | 11.6 | 1.52 | 1 | 1 | | 15.1 | 3.0 | 0.00 | 1 | 1000 | 16.0 | 12 | 10 | 42.00 | 3.0 | |
| 05-SWC-047 | 11.6 | 12.5 | 0.91 | 4 | 12 | | 39.4 | 8.0 | 0.00 | 1 | 1000 | 16.0 | 12 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 12.5 | 13.6 | 1.07 | 3 | 7 | | 69.3 | 13.0 | 15.42 | 14 | 69 | 8.0 | 12 | 10 | 50.00 | 3.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05-SWC-047 | 13.6 | 15.5 | 1.98 | 4 | 12 | | 69.6 | 13.0 | 13.12 | 7 | 151 | 8.0 | 14 | 10 | 57.00 | 3.0 | |
| 05-SWC-047 | 15.5 | 16.2 | 0.61 | 2 | 4 | | 19.7 | 3.0 | 21.87 | 36 | 28 | 5.0 | 14 | 10 | 36.00 | 2.0 | |
| 05-SWC-047 | 16.2 | 18.0 | 1.83 | 3 | 7 | | 60.1 | 13.0 | 7.31 | 4 | 250 | 10.0 | 14 | 10 | 54.00 | 3.0 | |
| 05-SWC-047 | 18.0 | 18.6 | 0.61 | 2 | 4 | | 47.6 | 8.0 | 24.71 | 41 | 25 | 5.0 | 14 | 10 | 41.00 | 3.0 | |
| 05-SWC-047 | 18.6 | 20.4 | 1.83 | 2 | 4 | | 18.6 | 3.0 | 24.71 | 14 | 74 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05-SWC-047 | 20.4 | 21.6 | 1.22 | 2 | 4 | | 31.2 | 8.0 | 24.71 | 20 | 49 | 5.0 | 16 | 10 | 43.00 | 3.0 | |
| 05-SWC-047 | 21.6 | 23.5 | 1.83 | 2 | 4 | | 44.8 | 8.0 | 24.71 | 14 | 74 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05-SWC-047 | 23.5 | 24.7 | 1.22 | 2 | 4 | | 73.0 | 13.0 | 24.71 | 20 | 49 | 5.0 | 16 | 10 | 48.00 | 3.0 | |
| 05-SWC-047 | 24.7 | 26.2 | 1.52 | 3 | 7 | | 11.8 | 3.0 | 6.26 | 4 | 243 | 10.0 | 16 | 10 | 46.00 | 3.0 | |
| 05-SWC-047 | 26.2 | 27.7 | 1.52 | 2 | 4 | | 9.8 | 3.0 | 0.00 | 1 | 1000 | 16.0 | 16 | 10 | 49.00 | 3.0 | |
| 05-SWC-047 | 27.7 | 29.6 | 1.83 | 3 | 7 | | 70.8 | 13.0 | 6.33 | 3 | 289 | 10.0 | 16 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 29.6 | 30.8 | 1.22 | 3 | 7 | | 95.9 | 20.0 | 4.10 | 3 | 297 | 10.0 | 16 | 10 | 63.00 | 4.0 | |
| 05-SWC-047 | 30.8 | 32.3 | 1.52 | 3 | 7 | | 90.5 | 20.0 | 3.12 | 2 | 488 | 10.0 | 16 | 10 | 63.00 | 4.0 | |
| 05-SWC-047 | 32.3 | 33.8 | 1.52 | 4 | 12 | | 85.3 | 17.0 | 14.06 | 9 | 108 | 8.0 | 16 | 10 | 63.00 | 4.0 | |
| 05-SWC-047 | 33.8 | 35.4 | 1.52 | 4 | 12 | | 72.2 | 13.0 | 14.06 | 9 | 108 | 8.0 | 16 | 10 | 59.00 | 3.0 | |
| 05-SWC-047 | 35.4 | 36.9 | 1.52 | 3 | 7 | | 60.4 | 13.0 | 4.56 | 3 | 335 | 10.0 | 16 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 36.9 | 38.4 | 1.52 | 3 | 7 | | 34.1 | 8.0 | 14.76 | 10 | 103 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05-SWC-047 | 38.4 | 39.9 | 1.52 | 3 | 7 | | 78.7 | 17.0 | 2.79 | 2 | 547 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 39.9 | 41.5 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 2.79 | 2 | 547 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 41.5 | 43.0 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 2.79 | 2 | 547 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 43.0 | 44.5 | 1.52 | 4 | 12 | | 100.0 | 20.0 | 42.64 | 28 | 36 | 5.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 44.5 | 46.0 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 2.62 | 2 | 581 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 46.0 | 47.6 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 4.04 | 3 | 378 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 47.6 | 49.1 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 4.04 | 3 | 378 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 49.1 | 50.6 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 4.04 | 3 | 378 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 50.6 | 52.1 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 4.04 | 3 | 378 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 52.1 | 53.7 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 4.04 | 3 | 378 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 53.7 | 55.2 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 4.04 | 3 | 378 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 55.2 | 56.7 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 3.28 | 2 | 465 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 56.7 | 58.2 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 3.28 | 2 | 465 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 58.2 | 59.8 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 3.28 | 2 | 465 | 10.0 | 20 | 10 | 67.00 | 4.0 | |
| 05-SWC-047 | 59.8 | 61.3 | 1.52 | 2 | 4 | | 100.0 | 20.0 | 21.87 | 14 | 70 | 8.0 | 20 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 61.3 | 62.8 | 1.52 | 4 | 12 | | 100.0 | 20.0 | 0.00 | 1 | 1000 | 16.0 | 20 | 10 | 78.00 | 4.0 | |
| 05-SWC-047 | 62.8 | 64.3 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 5.62 | 4 | 271 | 10.0 | 20 | 10 | 67.00 | 4.0 | |
| 05-SWC-047 | 64.3 | 65.9 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 5.58 | 4 | 273 | 10.0 | 20 | 10 | 67.00 | 4.0 | |
| 05-SWC-047 | 65.9 | 67.4 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 5.69 | 4 | 268 | 10.0 | 20 | 10 | 67.00 | 4.0 | |
| 05-SWC-047 | 67.4 | 68.9 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 5.69 | 4 | 268 | 10.0 | 20 | 10 | 67.00 | 4.0 | |
| 05-SWC-047 | 68.9 | 70.4 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 5.69 | 4 | 268 | 10.0 | 20 | 10 | 67.00 | 4.0 | |
| 05-SWC-047 | 70.4 | 72.0 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 5.25 | 3 | 290 | 10.0 | 20 | 10 | 67.00 | 4.0 | |
| 05-SWC-047 | 72.0 | 73.5 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 7.22 | 5 | 211 | 10.0 | 20 | 10 | 67.00 | 4.0 | |
| 05-SWC-047 | 73.5 | 75.0 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 7.87 | 5 | 194 | 8.0 | 20 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 75.0 | 76.5 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 19.68 | 13 | 77 | 8.0 | 20 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 76.5 | 78.0 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 19.02 | 12 | 80 | 8.0 | 20 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 78.0 | 79.6 | 1.52 | 3 | 7 | | 69.5 | 13.0 | 10.50 | 7 | 145 | 8.0 | 20 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 79.6 | 81.1 | 1.52 | 3 | 7 | | 59.7 | 13.0 | 9.18 | 6 | 166 | 8.0 | 20 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 81.1 | 82.6 | 1.52 | 3 | 7 | | 26.2 | 8.0 | 27.55 | 18 | 55 | 5.0 | 20 | 10 | 50.00 | 3.0 | |
| 05-SWC-047 | 82.6 | 83.8 | 1.22 | 3 | 7 | | 32.4 | 8.0 | 22.96 | 19 | 53 | 5.0 | 20 | 10 | 50.00 | 3.0 | |
| 05-SWC-047 | 83.8 | 85.7 | 1.83 | 1 | 1 | | 32.8 | 8.0 | 13.12 | 7 | 139 | 8.0 | 20 | 10 | 47.00 | 3.0 | |
| 05-SWC-047 | 85.7 | 87.5 | 1.83 | 3 | 7 | | 65.1 | 13.0 | 7.65 | 4 | 239 | 10.0 | 20 | 10 | 60.00 | 3.0 | |
| 05-SWC-047 | 87.5 | 88.7 | 1.22 | 3 | 7 | | 71.3 | 13.0 | 6.56 | 5 | 186 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 88.7 | 90.2 | 1.52 | 2 | 4 | | 73.8 | 13.0 | 10.50 | 7 | 145 | 8.0 | 18 | 10 | 53.00 | 3.0 | |
| 05-SWC-047 | 90.2 | 91.8 | 1.52 | 3 | 7 | | 70.8 | 13.0 | 2.73 | 2 | 558 | 10.0 | 20 | 10 | 60.00 | 3.0 | |
| 05-SWC-047 | 91.8 | 93.3 | 1.52 | 3 | 7 | | 63.3 | 13.0 | 21.87 | 14 | 70 | 8.0 | 20 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 93.3 | 94.8 | 1.52 | 3 | 7 | | 77.4 | 17.0 | 1.31 | 1 | 1162 | 16.0 | 20 | 10 | 70.00 | 4.0 | |
| 05-SWC-047 | 94.8 | 96.6 | 1.83 | 3 | 7 | | 97.3 | 20.0 | 2.73 | 1 | 669 | 16.0 | 20 | 10 | 73.00 | 4.0 | |
| 05-SWC-047 | 96.6 | 97.9 | 1.22 | 3 | 7 | | 63.6 | 13.0 | 6.56 | 5 | 186 | 8.0 | 20 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 97.9 | 99.4 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 3.94 | 3 | 387 | 10.0 | 20 | 10 | 67.00 | 4.0 | |
| 05-SWC-047 | 99.4 | 100.9 | 1.52 | 2 | 4 | | 58.7 | 13.0 | 5.86 | 4 | 260 | 10.0 | 20 | 10 | 57.00 | 3.0 | |
| 05-SWC-047 | 100.9 | 102.4 | 1.52 | 3 | 7 | | 62.3 | 13.0 | 24.27 | 16 | 63 | 8.0 | 20 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 102.4 | 104.0 | 1.52 | 3 | 7 | | 77.7 | 17.0 | 7.22 | 5 | 211 | 10.0 | 20 | 10 | 64.00 | 4.0 | |
| 05-SWC-047 | 104.0 | 105.5 | 1.52 | 3 | 7 | | 57.7 | 13.0 | 11.15 | 7 | 137 | 8.0 | 20 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 105.5 | 107.0 | 1.52 | 3 | 7 | | 92.2 | 20.0 | 1.97 | 1 | 775 | 16.0 | 20 | 10 | 73.00 | 4.0 | |
| 05-SWC-047 | 107.0 | 108.5 | 1.52 | 3 | 7 | | 71.5 | 13.0 | 9.84 | 6 | 155 | 8.0 | 20 | 10 | 58.00 | 3.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05-SWC-047 | 108.5 | 110.1 | 1.52 | 3 | 7 | | 86.6 | 17.0 | 6.56 | 4 | 232 | 10.0 | 20 | 10 | 64.00 | 4.0 | |
| 05-SWC-047 | 110.1 | 111.6 | 1.52 | 3 | 7 | | 55.8 | 13.0 | 4.59 | 3 | 332 | 10.0 | 20 | 10 | 60.00 | 3.0 | |
| 05-SWC-047 | 111.6 | 113.1 | 1.52 | 3 | 7 | | 74.8 | 13.0 | 1.97 | 1 | 775 | 16.0 | 20 | 10 | 66.00 | 4.0 | |
| 05-SWC-047 | 113.1 | 114.6 | 1.52 | 3 | 7 | | 66.9 | 13.0 | 7.87 | 5 | 194 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 114.6 | 116.2 | 1.52 | 3 | 7 | | 51.2 | 13.0 | 9.84 | 6 | 155 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 116.2 | 117.7 | 1.52 | 3 | 7 | | 99.1 | 20.0 | 4.92 | 3 | 310 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 117.7 | 119.2 | 1.52 | 3 | 7 | | 74.8 | 13.0 | 5.90 | 4 | 258 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 119.2 | 120.7 | 1.52 | 3 | 7 | | 95.4 | 20.0 | 3.94 | 3 | 387 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 120.7 | 122.3 | 1.52 | 3 | 7 | | 52.8 | 13.0 | 5.86 | 4 | 260 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 122.3 | 123.8 | 1.52 | 3 | 7 | | 93.2 | 20.0 | 2.62 | 2 | 581 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 123.8 | 125.3 | 1.52 | 3 | 7 | | 90.5 | 20.0 | 2.62 | 2 | 581 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 125.3 | 126.8 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 1.31 | 1 | 1162 | 16.0 | 18 | 10 | 71.00 | 4.0 | |
| 05-SWC-047 | 126.8 | 128.4 | 1.52 | 3 | 7 | | 63.6 | 13.0 | 3.28 | 2 | 465 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 128.4 | 130.2 | 1.83 | 2 | 4 | | 32.8 | 8.0 | 0.00 | 1 | 1000 | 16.0 | 18 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 130.2 | 131.4 | 1.22 | 3 | 7 | | 56.6 | 13.0 | 5.74 | 5 | 212 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 131.4 | 132.8 | 1.37 | 3 | 7 | | 59.8 | 13.0 | 2.92 | 2 | 471 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 132.8 | 134.5 | 1.68 | 3 | 7 | | 76.3 | 17.0 | 7.16 | 4 | 234 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 134.5 | 136.0 | 1.52 | 3 | 7 | | 97.7 | 20.0 | 3.94 | 3 | 387 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 136.0 | 137.5 | 1.52 | 3 | 7 | | 98.7 | 20.0 | 1.97 | 1 | 775 | 16.0 | 18 | 10 | 71.00 | 4.0 | |
| 05-SWC-047 | 137.5 | 139.3 | 1.83 | 3 | 7 | | 100.0 | 20.0 | 3.28 | 2 | 558 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 139.3 | 140.5 | 1.22 | 3 | 7 | | 75.0 | 17.0 | 4.10 | 3 | 297 | 10.0 | | 10 | 44.00 | 3.0 | |
| 05-SWC-047 | 140.5 | 142.4 | 1.83 | 3 | 7 | | 91.3 | 20.0 | 4.92 | 3 | 372 | 10.0 | 0 | 10 | 47.00 | 3.0 | |
| 05-SWC-047 | 142.4 | 143.6 | 1.22 | 3 | 7 | | 80.8 | 17.0 | 3.28 | 3 | 372 | 10.0 | 10 | 10 | 54.00 | 3.0 | |
| 05-SWC-047 | 143.6 | 145.1 | 1.52 | 3 | 7 | | 95.8 | 20.0 | 2.62 | 2 | 581 | 10.0 | 12 | 10 | 59.00 | 3.0 | |
| 05-SWC-047 | 145.1 | 146.6 | 1.52 | 3 | 7 | | 63.0 | 13.0 | 5.25 | 3 | 290 | 10.0 | 12 | 10 | 52.00 | 3.0 | |
| 05-SWC-047 | 146.6 | 148.2 | 1.52 | 3 | 7 | | 71.2 | 13.0 | 7.87 | 5 | 194 | 8.0 | 12 | 10 | 50.00 | 3.0 | |
| 05-SWC-047 | 148.2 | 149.7 | 1.52 | 3 | 7 | | 100.0 | 20.0 | 3.28 | 2 | 465 | 10.0 | 12 | 10 | 59.00 | 3.0 | |
| 05-SWC-047 | 149.7 | 151.2 | 1.52 | 2 | 4 | | 49.2 | 8.0 | 3.94 | 3 | 387 | 10.0 | 12 | 10 | 44.00 | 3.0 | |
| 05-SWC-047 | 151.2 | 152.7 | 1.52 | 3 | 7 | | 47.2 | 8.0 | 7.87 | 5 | 194 | 8.0 | 14 | 10 | 47.00 | 3.0 | |
| 05-SWC-047 | 152.7 | 154.3 | 1.52 | 3 | 7 | | 79.0 | 17.0 | 3.28 | 2 | 465 | 10.0 | 16 | 10 | 60.00 | 3.0 | |
| 05-SWC-047 | 154.3 | 155.8 | 1.52 | 3 | 7 | | 47.2 | 8.0 | 8.53 | 6 | 179 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05-SWC-047 | 155.8 | 157.3 | 1.52 | 3 | 7 | | 76.8 | 17.0 | 5.25 | 3 | 290 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 157.3 | 158.8 | 1.52 | 3 | 7 | | 90.5 | 20.0 | 3.28 | 2 | 465 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 158.8 | 160.4 | 1.52 | 3 | 7 | | 52.2 | 13.0 | 1.31 | 1 | 1162 | 16.0 | 18 | 10 | 64.00 | 4.0 | |
| 05-SWC-047 | 160.4 | 161.9 | 1.52 | 3 | 7 | | 49.2 | 8.0 | 5.25 | 3 | 290 | 10.0 | 18 | 10 | 53.00 | 3.0 | |
| 05-SWC-047 | 161.9 | 163.4 | 1.52 | 3 | 7 | | 33.5 | 8.0 | 7.87 | 5 | 194 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05-SWC-047 | 163.4 | 164.9 | 1.52 | 3 | 7 | | 44.0 | 8.0 | 0.66 | 0 | 2324 | 20.0 | 18 | 10 | 63.00 | 4.0 | |
| 05-SWC-047 | 164.9 | 166.8 | 1.83 | 2 | 4 | | 87.5 | 17.0 | 5.47 | 3 | 335 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05-SWC-047 | 166.8 | 168.0 | 1.22 | 3 | 7 | | 55.8 | 13.0 | 9.84 | 8 | 124 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 168.0 | 169.5 | 1.52 | 3 | 7 | | 84.0 | 17.0 | 7.22 | 5 | 211 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 169.5 | 171.0 | 1.52 | 3 | 7 | | 63.0 | 13.0 | 3.94 | 3 | 387 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 171.0 | 172.6 | 1.52 | 3 | 7 | | 83.6 | 17.0 | 3.94 | 3 | 387 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 172.6 | 174.1 | 1.52 | 3 | 7 | | 62.0 | 13.0 | 7.22 | 5 | 211 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 174.1 | 175.6 | 1.52 | 3 | 7 | | 58.4 | 13.0 | 7.22 | 5 | 211 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 175.6 | 177.1 | 1.52 | 3 | 7 | | 84.0 | 17.0 | 5.25 | 3 | 290 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 177.1 | 178.7 | 1.52 | 3 | 7 | | 85.3 | 17.0 | 5.25 | 3 | 290 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 178.7 | 180.2 | 1.52 | 3 | 7 | | 84.0 | 17.0 | 3.94 | 3 | 387 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 180.2 | 181.7 | 1.52 | 3 | 7 | | 70.2 | 13.0 | 3.94 | 3 | 387 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 181.7 | 183.2 | 1.52 | 3 | 7 | | 7.2 | 3.0 | 10.50 | 7 | 145 | 8.0 | 18 | 10 | 46.00 | 3.0 | |
| 05-SWC-047 | 183.2 | 184.8 | 1.52 | 3 | 7 | | 62.6 | 13.0 | 19.68 | 13 | 77 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 184.8 | 186.3 | 1.52 | 3 | 7 | | 38.7 | 8.0 | 12.46 | 8 | 122 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05-SWC-047 | 186.3 | 187.8 | 1.52 | 3 | 7 | | 75.4 | 17.0 | 5.25 | 3 | 290 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 187.8 | 189.3 | 1.52 | 4 | 12 | | 66.3 | 13.0 | 13.12 | 9 | 116 | 8.0 | 18 | 10 | 61.00 | 4.0 | |
| 05-SWC-047 | 189.3 | 190.9 | 1.52 | 3 | 7 | | 98.4 | 20.0 | 5.47 | 4 | 279 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 190.9 | 192.4 | 1.52 | 3 | 7 | | 57.7 | 13.0 | 9.18 | 6 | 166 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 192.4 | 193.9 | 1.52 | 3 | 7 | | 76.1 | 17.0 | 7.87 | 5 | 194 | 8.0 | 18 | 10 | 60.00 | 3.0 | |
| 05-SWC-047 | 193.9 | 195.4 | 1.52 | 3 | 7 | | 66.3 | 13.0 | 5.90 | 4 | 258 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 195.4 | 197.0 | 1.52 | 3 | 7 | | 77.4 | 17.0 | 5.25 | 3 | 290 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 197.0 | 198.5 | 1.52 | 3 | 7 | | 49.2 | 8.0 | 8.53 | 6 | 179 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05-SWC-047 | 198.5 | 200.0 | 1.52 | 3 | 7 | | 68.9 | 13.0 | 5.90 | 4 | 258 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 200.0 | 201.5 | 1.52 | 3 | 7 | | 75.4 | 17.0 | 3.94 | 3 | 387 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 201.5 | 203.0 | 1.52 | 3 | 7 | | 94.5 | 20.0 | 3.28 | 2 | 465 | 10.0 | 18 | 10 | 65.00 | 4.0 | |
| 05-SWC-047 | 203.0 | 204.6 | 1.52 | 3 | 7 | | 38.0 | 8.0 | 3.94 | 3 | 387 | 10.0 | 18 | 10 | 53.00 | 3.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05-SWC-047 | 204.6 | 206.1 | 1.52 | 3 | 7 | | 63.3 | 13.0 | 3.28 | 2 | 465 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 206.1 | 207.6 | 1.52 | 3 | 7 | | 62.0 | 13.0 | 9.18 | 6 | 166 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 207.6 | 209.1 | 1.52 | 3 | 7 | | 80.7 | 17.0 | 5.90 | 4 | 258 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 209.1 | 210.7 | 1.52 | 3 | 7 | | 76.8 | 17.0 | 4.59 | 3 | 332 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 210.7 | 212.2 | 1.52 | 3 | 7 | | 63.0 | 13.0 | 5.90 | 4 | 258 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 212.2 | 213.7 | 1.52 | 3 | 7 | | 87.9 | 17.0 | 1.31 | 1 | 1162 | 16.0 | 18 | 10 | 68.00 | 4.0 | |
| 05-SWC-047 | 213.7 | 215.2 | 1.52 | 3 | 7 | | 63.6 | 13.0 | 5.90 | 4 | 258 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 215.2 | 216.8 | 1.52 | 3 | 7 | | 55.8 | 13.0 | 7.87 | 5 | 194 | 8.0 | | 10 | 38.00 | 2.0 | |
| 05-SWC-047 | 216.8 | 218.3 | 1.52 | 3 | 7 | | 74.1 | 13.0 | 5.90 | 4 | 258 | 10.0 | 0 | 10 | 40.00 | 2.0 | |
| 05-SWC-047 | 218.3 | 219.8 | 1.52 | 3 | 7 | | 82.7 | 17.0 | 5.25 | 3 | 290 | 10.0 | 10 | 10 | 54.00 | 3.0 | |
| 05-SWC-047 | 219.8 | 221.3 | 1.52 | 3 | 7 | | 62.3 | 13.0 | 7.87 | 5 | 194 | 8.0 | 10 | 10 | 48.00 | 3.0 | |
| 05-SWC-047 | 221.3 | 222.9 | 1.52 | 3 | 7 | | 64.3 | 13.0 | 4.59 | 3 | 332 | 10.0 | 10 | 10 | 50.00 | 3.0 | |
| 05-SWC-047 | 222.9 | 224.4 | 1.52 | 3 | 7 | | 76.8 | 17.0 | 5.90 | 4 | 258 | 10.0 | 10 | 10 | 54.00 | 3.0 | |
| 05-SWC-047 | 224.4 | 225.9 | 1.52 | 3 | 7 | | 68.9 | 13.0 | 4.59 | 3 | 332 | 10.0 | 10 | 10 | 50.00 | 3.0 | |
| 05-SWC-047 | 225.9 | 227.4 | 1.52 | 3 | 7 | | 96.4 | 20.0 | 1.97 | 1 | 775 | 16.0 | 10 | 10 | 63.00 | 4.0 | |
| 05-SWC-047 | 227.4 | 229.0 | 1.52 | 3 | 7 | | 51.2 | 13.0 | 6.56 | 4 | 232 | 10.0 | 12 | 10 | 52.00 | 3.0 | |
| 05-SWC-047 | 229.0 | 230.5 | 1.52 | 3 | 7 | | 68.9 | 13.0 | 5.90 | 4 | 258 | 10.0 | 12 | 10 | 52.00 | 3.0 | |
| 05-SWC-047 | 230.5 | 232.0 | 1.52 | 3 | 7 | | 68.9 | 13.0 | 7.22 | 5 | 211 | 10.0 | 12 | 10 | 52.00 | 3.0 | |
| 05-SWC-047 | 232.0 | 233.8 | 1.83 | 2 | 4 | | 55.8 | 13.0 | 8.75 | 5 | 209 | 10.0 | 14 | 10 | 51.00 | 3.0 | |
| 05-SWC-047 | 233.8 | 235.1 | 1.22 | 3 | 7 | | 83.6 | 17.0 | 4.10 | 3 | 297 | 10.0 | 14 | 10 | 58.00 | 3.0 | |
| 05-SWC-047 | 235.1 | 236.6 | 1.52 | 2 | 4 | | 89.9 | 17.0 | 2.62 | 2 | 581 | 10.0 | 14 | 10 | 55.00 | 3.0 | |
| 05-SWC-047 | 236.6 | 238.1 | 1.52 | 2 | 4 | | 100.0 | 20.0 | 1.31 | 1 | 1162 | 16.0 | 14 | 10 | 64.00 | 4.0 | |
| 05-SWC-047 | 238.1 | 239.6 | 1.52 | 2 | 4 | | 36.7 | 8.0 | 13.12 | 9 | 116 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05-SWC-047 | 239.6 | 241.2 | 1.52 | 2 | 4 | | 73.1 | 13.0 | 3.28 | 2 | 465 | 10.0 | 16 | 10 | 53.00 | 3.0 | |
| 05-SWC-047 | 241.2 | 242.7 | 1.52 | 2 | 4 | | 75.1 | 17.0 | 6.56 | 4 | 232 | 10.0 | 16 | 10 | 57.00 | 3.0 | |
| 05-SWC-047 | 242.7 | 244.2 | 1.52 | 2 | 4 | | 54.4 | 13.0 | 7.87 | 5 | 194 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05-SWC-047 | 244.2 | 245.7 | 1.52 | 2 | 4 | | 44.9 | 8.0 | 16.40 | 11 | 93 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05-SWC-047 | 245.7 | 247.3 | 1.52 | 2 | 4 | | 19.4 | 3.0 | 23.62 | 15 | 65 | 8.0 | 16 | 10 | 41.00 | 3.0 | |
| 05-SWC-047 | 247.3 | 248.8 | 1.52 | 2 | 4 | | 39.4 | 8.0 | 17.06 | 11 | 89 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05-SWC-047 | 248.8 | 250.3 | 1.52 | 2 | 4 | | 53.8 | 13.0 | 13.12 | 9 | 116 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05-SWC-047 | 250.3 | 251.8 | 1.52 | 2 | 4 | | 29.8 | 8.0 | 22.30 | 15 | 68 | 8.0 | 16 | 10 | 46.00 | 3.0 | |
| 05-SWC-047 | 251.8 | 253.4 | 1.52 | 2 | 4 | | 24.9 | 3.0 | 7.22 | 5 | 211 | 10.0 | 16 | 10 | 43.00 | 3.0 | |
| 05-SWC-047 | 253.4 | 254.9 | 1.52 | 3 | 7 | | 58.1 | 13.0 | 12.46 | 8 | 122 | 8.0 | 16 | 10 | 54.00 | 3.0 | |
| 05-SWC-047 | 254.9 | 256.4 | 1.52 | 3 | 7 | | 70.8 | 13.0 | 6.56 | 4 | 232 | 10.0 | 16 | 10 | 56.00 | 3.0 | |
| 05-SWC-047 | 256.4 | 257.3 | 0.91 | 2 | 4 | | 59.6 | 13.0 | 8.75 | 10 | 105 | 8.0 | 16 | 10 | 51.00 | 3.0 | |
| 05-SWC-047 | 257.3 | 259.5 | 2.13 | 2 | 4 | | 44.5 | 8.0 | 4.22 | 2 | 506 | 10.0 | 16 | 10 | 48.00 | 3.0 | |
| 05-SWC-047 | 259.5 | 261.0 | 1.52 | 3 | 7 | | 43.3 | 8.0 | 11.15 | 7 | 137 | 8.0 | 16 | 10 | 49.00 | 3.0 | |
| 05-SWC-047 | 261.0 | 262.5 | 1.52 | 3 | 7 | | 63.0 | 13.0 | 5.90 | 4 | 258 | 10.0 | 14 | 10 | 54.00 | 3.0 | |
| 05-SWC-047 | 262.5 | 264.0 | 1.52 | 3 | 7 | | 85.0 | 17.0 | 7.22 | 5 | 211 | 10.0 | 16 | 10 | 60.00 | 3.0 | |
| 05-SWC-047 | 264.0 | 265.5 | 1.52 | 3 | 7 | | 90.5 | 20.0 | 3.94 | 3 | 387 | 10.0 | 16 | 10 | 63.00 | 4.0 | |
| 05-SWC-047 | 265.5 | 267.1 | 1.52 | 3 | 7 | | 83.3 | 17.0 | 3.94 | 3 | 387 | 10.0 | 18 | 10 | 62.00 | 4.0 | |
| 05-SWC-047 | 267.1 | 268.6 | 1.52 | 3 | 7 | | 48.2 | 8.0 | 11.81 | 8 | 129 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05-SWC-047 | 268.6 | 270.1 | 1.52 | 3 | 7 | | 71.8 | 13.0 | 5.90 | 4 | 258 | 10.0 | 20 | 10 | 60.00 | 3.0 | |
| 05-SWC-047 | 270.1 | 271.3 | 1.22 | 3 | 7 | | 95.5 | 20.0 | 0.82 | 1 | 1487 | 16.0 | 20 | 10 | 73.00 | 4.0 | |
| 05-SWC-049 | 0.0 | 6.4 | 6.40 | | 0 | | 0.0 | 0.0 | 0.00 | 1 | 1000 | 16.0 | 20 | 10 | 46.00 | 3.0 | |
| 05-SWC-049 | 6.4 | 7.9 | 1.52 | 4 | 12 | | 17.7 | 3.0 | 1.31 | 1 | 1162 | 16.0 | 20 | 10 | 61.00 | 4.0 | |
| 05-SWC-049 | 7.9 | 9.5 | 1.52 | 1 | 1 | | 0.0 | 0.0 | 0.00 | 1 | 1000 | 16.0 | 20 | 10 | 47.00 | 3.0 | |
| 05-SWC-049 | 9.5 | 11.0 | 1.52 | 2 | 4 | | 28.9 | 8.0 | 16.40 | 11 | 93 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05-SWC-049 | 11.0 | 12.5 | 1.52 | 1 | 1 | | 0.0 | 0.0 | 0.00 | 1 | 1000 | 16.0 | 20 | 10 | 47.00 | 3.0 | |
| 05-SWC-049 | 12.5 | 41.2 | 28.66 | 2 | 4 | | 2.1 | 3.0 | 0.35 | 1 | 1000 | 16.0 | 20 | 10 | 53.00 | 3.0 | |
| 05-SWC-049 | 41.2 | 42.7 | 1.52 | 2 | 4 | | 6.6 | 3.0 | 0.00 | 1 | 1000 | 16.0 | 20 | 10 | 53.00 | 3.0 | |
| 05-SWC-049 | 42.7 | 44.2 | 1.52 | 3 | 7 | | 0.0 | 0.0 | 0.00 | 1 | 1000 | 16.0 | 20 | 10 | 53.00 | 3.0 | |
| 05-SWC-049 | 44.2 | 45.7 | 1.52 | 2 | 4 | | 0.0 | 0.0 | 0.00 | 1 | 1000 | 16.0 | 20 | 10 | 50.00 | 3.0 | |
| 05-SWC-049 | 45.7 | 47.3 | 1.52 | 2 | 4 | | 14.8 | 3.0 | 7.87 | 5 | 194 | 8.0 | 20 | 10 | 45.00 | 3.0 | |
| 05-SWC-049 | 47.3 | 48.8 | 1.52 | 2 | 4 | | 26.9 | 8.0 | 12.46 | 8 | 122 | 8.0 | 20 | 10 | 50.00 | 3.0 | |
| 05-SWC-049 | 48.8 | 50.3 | 1.52 | 2 | 4 | | 15.7 | 3.0 | 13.12 | 9 | 116 | 8.0 | 18 | 10 | 43.00 | 3.0 | |
| 05-SWC-049 | 50.3 | 51.8 | 1.52 | 2 | 4 | | 0.0 | 0.0 | 20.34 | 13 | 75 | 8.0 | 20 | 10 | 42.00 | 3.0 | |
| 05-SWC-049 | 51.8 | 53.4 | 1.52 | 2 | 4 | | 42.6 | 8.0 | 9.84 | 6 | 155 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05-SWC-049 | 53.4 | 54.9 | 1.52 | 2 | 4 | | 18.4 | 3.0 | 7.22 | 5 | 211 | 10.0 | 18 | 10 | 45.00 | 3.0 | |
| 05-SWC-049 | 54.9 | 56.4 | 1.52 | 2 | 4 | | 21.6 | 3.0 | 12.46 | 8 | 122 | 8.0 | 12 | 10 | 37.00 | 2.0 | |
| 05-SWC-049 | 56.4 | 57.9 | 1.52 | 2 | 4 | | 67.9 | 13.0 | 7.87 | 5 | 194 | 8.0 | 12 | 10 | 47.00 | 3.0 | |
| 05-SWC-049 | 57.9 | 59.5 | 1.52 | 2 | 4 | | 7.9 | 3.0 | 24.27 | 16 | 63 | 8.0 | 12 | 10 | 37.00 | 2.0 | |
| 05-SWC-049 | 59.5 | 61.0 | 1.52 | 2 | 4 | | 23.0 | 3.0 | 11.15 | 7 | 137 | 8.0 | 12 | 10 | 37.00 | 2.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Conditi on/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05-SWC-049 | 61.0 | 62.5 | 1.52 | 3 | 7 | | 70.8 | 13.0 | 9.84 | 6 | 155 | 8.0 | 12 | 10 | 50.00 | 3.0 | |
| 05-SWC-049 | 62.5 | 64.0 | 1.52 | 3 | 7 | | 41.4 | 8.0 | 4.59 | 3 | 332 | 10.0 | 14 | 10 | 49.00 | 3.0 | |
| 05-SWC-049 | 64.0 | 65.5 | 1.52 | 3 | 7 | | 14.8 | 3.0 | 13.12 | 9 | 116 | 8.0 | 14 | 10 | 42.00 | 3.0 | |
| 05-SWC-049 | 65.5 | 67.1 | 1.52 | 3 | 7 | | 54.1 | 13.0 | 2.62 | 2 | 581 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-049 | 67.1 | 68.6 | 1.52 | 2 | 4 | | 0.0 | 0.0 | 9999.00 | 6559 | 0 | 5.0 | 18 | 10 | 37.00 | 2.0 | |
| 05-SWC-049 | 68.6 | 70.1 | 1.52 | 2 | 4 | | 34.4 | 8.0 | 9999.00 | 6559 | 0 | 5.0 | 18 | 10 | 45.00 | 3.0 | |
| 05-SWC-049 | 70.1 | 71.3 | 1.22 | 2 | 4 | | 36.1 | 8.0 | 18.04 | 15 | 68 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05-SWC-049 | 71.3 | 73.2 | 1.83 | 2 | 4 | | 15.6 | 3.0 | 20.77 | 11 | 88 | 8.0 | 18 | 10 | 43.00 | 3.0 | |
| 05-SWC-049 | 73.2 | 74.7 | 1.52 | 3 | 7 | | 52.8 | 13.0 | 12.46 | 8 | 122 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05-SWC-049 | 74.7 | 76.2 | 1.52 | 3 | 7 | | 53.1 | 13.0 | 7.22 | 5 | 211 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-049 | 76.2 | 77.7 | 1.52 | 3 | 7 | | 28.2 | 8.0 | 9.00 | 6 | 169 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05-SWC-049 | 77.7 | 79.3 | 1.52 | 3 | 7 | | 45.9 | 8.0 | 17.06 | 11 | 89 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05-SWC-049 | 79.3 | 80.8 | 1.52 | 3 | 7 | | 64.3 | 13.0 | 9.18 | 6 | 166 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05-SWC-049 | 80.8 | 82.3 | 1.52 | 3 | 7 | | 20.4 | 3.0 | 1.00 | 1 | 1524 | 16.0 | 20 | 10 | 56.00 | 3.0 | |
| 05-SWC-049 | 82.3 | 83.8 | 1.52 | 3 | 7 | | 32.8 | 8.0 | 16.40 | 11 | 93 | 8.0 | 20 | 10 | 53.00 | 3.0 | |
| 05-SWC-049 | 83.8 | 85.4 | 1.52 | 3 | 7 | | 52.2 | 13.0 | 9.84 | 6 | 155 | 8.0 | 20 | 10 | 58.00 | 3.0 | |
| 05-SWC-049 | 85.4 | 86.9 | 1.52 | 3 | 7 | | 67.7 | 13.0 | 13.12 | 9 | 116 | 8.0 | 20 | 10 | 58.00 | 3.0 | |
| 05-SWC-049 | 86.9 | 88.4 | 1.52 | 3 | 7 | | 42.3 | 8.0 | 20.99 | 14 | 73 | 8.0 | 20 | 10 | 53.00 | 3.0 | |
| 05-SWC-049 | 88.4 | 89.9 | 1.52 | 3 | 7 | | 71.2 | 13.0 | 6.56 | 4 | 232 | 10.0 | 20 | 10 | 60.00 | 3.0 | |
| 05-SWC-049 | 89.9 | 91.5 | 1.52 | 3 | 7 | | 65.0 | 13.0 | 7.22 | 5 | 211 | 10.0 | 20 | 10 | 60.00 | 3.0 | |
| 05-SWC-049 | 91.5 | 93.0 | 1.52 | 2 | 4 | | 64.3 | 13.0 | 7.87 | 5 | 194 | 8.0 | 20 | 10 | 55.00 | 3.0 | |
| 05-SWC-049 | 93.0 | 94.5 | 1.52 | 2 | 4 | | 25.9 | 8.0 | 1.00 | 1 | 1524 | 16.0 | 20 | 10 | 58.00 | 3.0 | |
| 05-SWC-049 | 94.5 | 96.0 | 1.52 | 3 | 7 | | 45.9 | 8.0 | 18.37 | 12 | 83 | 8.0 | 20 | 10 | 53.00 | 3.0 | |
| 05-SWC-049 | 96.0 | 97.6 | 1.52 | 2 | 4 | | 95.1 | 20.0 | 1.00 | 1 | 1524 | 16.0 | 20 | 10 | 70.00 | 4.0 | |
| 05-SWC-049 | 97.6 | 99.1 | 1.52 | 3 | 7 | | 68.4 | 13.0 | 8.05 | 5 | 189 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05-SWC-049 | 99.1 | 100.6 | 1.52 | 2 | 4 | | 68.9 | 13.0 | 6.15 | 4 | 248 | 10.0 | 18 | 10 | 55.00 | 3.0 | |
| 05-SWC-049 | 100.6 | 102.1 | 1.52 | 2 | 4 | | 54.1 | 13.0 | 7.50 | 5 | 203 | 10.0 | 20 | 10 | 57.00 | 3.0 | |
| 05-SWC-049 | 102.1 | 103.7 | 1.52 | 1 | 1 | | 14.4 | 3.0 | 1.00 | 1 | 1524 | 16.0 | 20 | 10 | 50.00 | 3.0 | |
| 05-SWC-049 | 103.7 | 105.2 | 1.52 | 1 | 1 | | 0.0 | 0.0 | 1.00 | 1 | 1524 | 16.0 | 20 | 10 | 47.00 | 3.0 | |
| 05-SWC-049 | 105.2 | 106.7 | 1.52 | 2 | 4 | | 35.1 | 8.0 | 10.50 | 7 | 145 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05-SWC-049 | 106.7 | 108.2 | 1.52 | 2 | 4 | | 67.2 | 13.0 | 5.90 | 4 | 258 | 10.0 | 18 | 10 | 55.00 | 3.0 | |
| 05-SWC-049 | 108.2 | 109.8 | 1.52 | 1 | 1 | | 30.2 | 8.0 | 1.00 | 1 | 1524 | 16.0 | 18 | 10 | 53.00 | 3.0 | |
| 05-SWC-049 | 109.8 | 111.3 | 1.52 | 1 | 1 | | 39.7 | 8.0 | 26.24 | 17 | 58 | 5.0 | 18 | 10 | 42.00 | 3.0 | |
| 05-SWC-049 | 111.3 | 112.8 | 1.52 | 1 | 1 | | 17.7 | 3.0 | 22.30 | 15 | 68 | 8.0 | 18 | 10 | 40.00 | 2.0 | |
| 05-SWC-049 | 112.8 | 114.3 | 1.52 | 2 | 4 | | 49.5 | 8.0 | 19.02 | 12 | 80 | 8.0 | 18 | 10 | 48.00 | 3.0 | |
| 05-SWC-049 | 114.3 | 115.9 | 1.52 | 2 | 4 | | 75.0 | 17.0 | 3.94 | 3 | 387 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05-SWC-049 | 115.9 | 117.4 | 1.52 | 1 | 1 | | 7.7 | 3.0 | 1.00 | 1 | 1524 | 16.0 | 18 | 10 | 48.00 | 3.0 | |
| 05-SWC-049 | 117.4 | 118.9 | 1.52 | 1 | 1 | | 34.8 | 8.0 | 1.00 | 1 | 1524 | 16.0 | 18 | 10 | 53.00 | 3.0 | |
| 05-SWC-049 | 118.9 | 120.4 | 1.52 | 2 | 4 | | 89.2 | 17.0 | 2.62 | 2 | 581 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05-SWC-049 | 120.4 | 122.0 | 1.52 | 2 | 4 | | 67.8 | 13.0 | 3.94 | 3 | 387 | 10.0 | 18 | 10 | 55.00 | 3.0 | |
| 05-SWC-049 | 122.0 | 123.5 | 1.52 | 2 | 4 | | 81.3 | 17.0 | 5.25 | 3 | 290 | 10.0 | 18 | 10 | 59.00 | 3.0 | |
| 05-SWC-049 | 123.5 | 125.0 | 1.52 | 2 | 4 | | 77.4 | 17.0 | 4.59 | 3 | 332 | 10.0 | | 10 | 41.00 | 3.0 | |
| 05-SWC-049 | 125.0 | 126.5 | 1.52 | 2 | 4 | | 80.4 | 17.0 | 5.25 | 3 | 290 | 10.0 | 14 | 10 | 55.00 | 3.0 | |
| 05-SWC-049 | 126.5 | 128.0 | 1.52 | 2 | 4 | | 68.6 | 13.0 | 9.18 | 6 | 166 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05-SWC-049 | 128.0 | 129.6 | 1.52 | 2 | 4 | | 82.3 | 17.0 | 7.22 | 5 | 211 | 10.0 | 14 | 10 | 55.00 | 3.0 | |
| 05-SWC-049 | 129.6 | 131.1 | 1.52 | 2 | 4 | | 23.6 | 3.0 | 13.78 | 9 | 111 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05-SWC-049 | 131.1 | 132.6 | 1.52 | 2 | 4 | | 33.7 | 8.0 | 9.72 | 6 | 157 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05-SWC-049 | 132.6 | 134.1 | 1.52 | 2 | 4 | | 61.0 | 13.0 | 8.49 | 6 | 180 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05-SWC-049 | 134.1 | 135.7 | 1.52 | 2 | 4 | | 7.1 | 3.0 | 18.37 | 12 | 83 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05-SWC-049 | 135.7 | 137.2 | 1.52 | 2 | 4 | | 19.9 | 3.0 | 1.00 | 1 | 1524 | 16.0 | 14 | 10 | 47.00 | 3.0 | |
| 05-SWC-049 | 137.2 | 138.7 | 1.52 | 2 | 4 | | 9.8 | 3.0 | 28.86 | 19 | 53 | 5.0 | 14 | 10 | 36.00 | 2.0 | |
| 05-SWC-049 | 138.7 | 140.2 | 1.52 | 2 | 4 | | 35.4 | 8.0 | 1.00 | 1 | 1524 | 16.0 | 14 | 10 | 52.00 | 3.0 | |
| 05-SWC-049 | 140.2 | 141.8 | 1.52 | 2 | 4 | | 7.9 | 3.0 | 1.00 | 1 | 1524 | 16.0 | 14 | 10 | 47.00 | 3.0 | |
| 05-SWC-049 | 141.8 | 143.3 | 1.52 | 2 | 4 | | 16.7 | 3.0 | 19.02 | 12 | 80 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05-SWC-049 | 143.3 | 144.8 | 1.52 | 3 | 7 | | 33.5 | 8.0 | 37.17 | 24 | 41 | 5.0 | 14 | 10 | 44.00 | 3.0 | |
| 05-SWC-049 | 144.8 | 146.3 | 1.52 | 2 | 4 | | 14.8 | 3.0 | 22.96 | 15 | 66 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05-SWC-049 | 146.3 | 147.9 | 1.52 | 2 | 4 | | 16.4 | 3.0 | 25.58 | 17 | 60 | 5.0 | 14 | 10 | 36.00 | 2.0 | |
| 05-SWC-049 | 147.9 | 149.4 | 1.52 | 2 | 4 | | 22.0 | 3.0 | 12.46 | 8 | 122 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05-SWC-049 | 149.4 | 150.9 | 1.52 | 2 | 4 | | 0.0 | 0.0 | 1.00 | 1 | 1524 | 16.0 | 14 | 10 | 44.00 | 3.0 | |
| 05-SWC-049 | 150.9 | 152.4 | 1.52 | 2 | 4 | | 35.1 | 8.0 | 1.00 | 1 | 1524 | 16.0 | 14 | 10 | 52.00 | 3.0 | |
| 05-SWC-049 | 152.4 | 154.0 | 1.52 | 2 | 4 | | 53.1 | 13.0 | 13.78 | 9 | 111 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05-SWC-049 | 154.0 | 155.5 | 1.52 | 2 | 4 | | 22.3 | 3.0 | 16.40 | 11 | 93 | 8.0 | 14 | 10 | 39.00 | 2.0 | |
| 05-SWC-049 | 155.5 | 157.0 | 1.52 | 2 | 4 | | 31.8 | 8.0 | 18.37 | 12 | 83 | 8.0 | 14 | 10 | 44.00 | 3.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 05-SWC-049 | 157.0 | 158.5 | 1.52 | 2 | 4 | | 61.0 | 13.0 | 5.25 | 3 | 290 | 10.0 | 14 | 10 | 51.00 | 3.0 | |
| 05-SWC-049 | 158.5 | 160.1 | 1.52 | 3 | 7 | | 48.5 | 8.0 | 9.84 | 6 | 155 | 8.0 | 14 | 10 | 47.00 | 3.0 | |
| 05-SWC-049 | 160.1 | 161.6 | 1.52 | 2 | 4 | | 47.5 | 8.0 | 12.46 | 8 | 122 | 8.0 | 14 | 10 | 44.00 | 3.0 | |
| 05-SWC-049 | 161.6 | 163.1 | 1.52 | 2 | 4 | | 27.2 | 8.0 | 28.21 | 19 | 54 | 5.0 | 14 | 10 | 41.00 | 3.0 | |
| 05-SWC-049 | 163.1 | 164.6 | 1.52 | 2 | 4 | | 79.6 | 17.0 | 9.18 | 6 | 166 | 8.0 | 14 | 10 | 53.00 | 3.0 | |
| 05-SWC-049 | 164.6 | 166.2 | 1.52 | 2 | 4 | | 10.8 | 3.0 | 34.11 | 22 | 45 | 5.0 | 14 | 10 | 36.00 | 2.0 | |
| 05-SWC-049 | 166.2 | 167.7 | 1.52 | 2 | 4 | | 74.3 | 13.0 | 7.87 | 5 | 194 | 8.0 | 14 | 10 | 49.00 | 3.0 | |
| 05-SWC-049 | 167.7 | 169.2 | 1.52 | 2 | 4 | | 78.0 | 17.0 | 2.62 | 2 | 581 | 10.0 | 14 | 10 | 55.00 | 3.0 | |
| 05-SWC-049 | 169.2 | 170.7 | 1.52 | 2 | 4 | | 61.4 | 13.0 | 1.31 | 1 | 1162 | 16.0 | 14 | 10 | 57.00 | 3.0 | |
| 05-SWC-049 | 170.7 | 172.3 | 1.52 | 3 | 7 | | 99.0 | 20.0 | 5.25 | 3 | 290 | 10.0 | 14 | 10 | 61.00 | 4.0 | |
| 05-SWC-049 | 172.3 | 173.8 | 1.52 | 3 | 7 | | 64.8 | 13.0 | 2.62 | 2 | 581 | 10.0 | 16 | 10 | 56.00 | 3.0 | |
| 05-SWC-049 | 173.8 | 175.3 | 1.52 | 3 | 7 | | 76.2 | 17.0 | 1.31 | 1 | 1162 | 16.0 | 16 | 10 | 66.00 | 4.0 | |
| 05-SWC-049 | 175.3 | 176.8 | 1.52 | 3 | 7 | | 61.3 | 13.0 | 9.84 | 6 | 155 | 8.0 | 16 | 10 | 54.00 | 3.0 | |
| 05-SWC-049 | 176.8 | 178.4 | 1.52 | 3 | 7 | | 79.4 | 17.0 | 7.22 | 5 | 211 | 10.0 | 16 | 10 | 60.00 | 3.0 | |
| 05-SWC-049 | 178.4 | 179.9 | 1.52 | 3 | 7 | | 72.0 | 13.0 | 4.59 | 3 | 332 | 10.0 | 16 | 10 | 56.00 | 3.0 | |
| 05-SWC-049 | 179.9 | 181.4 | 1.52 | 3 | 7 | | 77.3 | 17.0 | 3.28 | 2 | 465 | 10.0 | 16 | 10 | 60.00 | 3.0 | |
| 05-SWC-049 | 181.4 | 182.9 | 1.52 | 3 | 7 | | 66.3 | 13.0 | 9.18 | 6 | 166 | 8.0 | 16 | 10 | 54.00 | 3.0 | |
| 05-SWC-049 | 182.9 | 184.5 | 1.52 | 3 | 7 | | 58.4 | 13.0 | 5.25 | 3 | 290 | 10.0 | 16 | 10 | 56.00 | 3.0 | |
| 05-SWC-049 | 184.5 | 186.0 | 1.52 | 3 | 7 | | 70.8 | 13.0 | 11.15 | 7 | 137 | 8.0 | 16 | 10 | 54.00 | 3.0 | |
| 05-SWC-049 | 186.0 | 187.5 | 1.52 | 3 | 7 | | 66.8 | 13.0 | 6.56 | 4 | 232 | 10.0 | 16 | 10 | 56.00 | 3.0 | |
| 05-SWC-049 | 187.5 | 189.0 | 1.52 | 3 | 7 | | 45.7 | 8.0 | 8.53 | 6 | 179 | 8.0 | 16 | 10 | 49.00 | 3.0 | |
| 05-SWC-049 | 189.0 | 190.5 | 1.52 | 3 | 7 | | 41.0 | 8.0 | 15.09 | 10 | 101 | 8.0 | 16 | 10 | 49.00 | 3.0 | |
| 05-SWC-049 | 190.5 | 192.1 | 1.52 | 3 | 7 | | 73.7 | 13.0 | 4.59 | 3 | 332 | 10.0 | 16 | 10 | 56.00 | 3.0 | |
| 05-SWC-049 | 192.1 | 193.6 | 1.52 | 3 | 7 | | 75.8 | 17.0 | 7.22 | 5 | 211 | 10.0 | 16 | 10 | 60.00 | 3.0 | |
| 05-SWC-049 | 193.6 | 195.1 | 1.52 | 3 | 7 | | 50.5 | 13.0 | 9.18 | 6 | 166 | 8.0 | 16 | 10 | 54.00 | 3.0 | |
| 05-SWC-049 | 195.1 | 196.6 | 1.52 | 3 | 7 | | 71.2 | 13.0 | 5.25 | 3 | 290 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-049 | 196.6 | 198.2 | 1.52 | 3 | 7 | | 55.8 | 13.0 | 9.84 | 6 | 155 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05-SWC-049 | 198.2 | 199.7 | 1.52 | 3 | 7 | | 36.7 | 8.0 | 13.78 | 9 | 111 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 05-SWC-049 | 199.7 | 201.2 | 1.52 | 3 | 7 | | 70.2 | 13.0 | 4.59 | 3 | 332 | 10.0 | 18 | 10 | 58.00 | 3.0 | |
| 05-SWC-049 | 201.2 | 202.7 | 1.52 | 3 | 7 | | 68.3 | 13.0 | 9.84 | 6 | 155 | 8.0 | 18 | 10 | 56.00 | 3.0 | |
| 05-SWC-049 | 202.7 | 203.4 | 0.61 | 3 | 7 | | 43.5 | 8.0 | 3.28 | 5 | 186 | 8.0 | 18 | 10 | 51.00 | 3.0 | |
| 93A | 0 | 13 | | | | | | | | | | | | | 0 | 0.0 | |
| 93A | 13 | 30 | | | | | | | | | | | | | 37 | 2.0 | |
| 93A | 30 | 57 | | | | | | | | | | | | | 23 | 2.0 | |
| 93A | 57 | 60 | | | | | | | | | | | | | 20 | 1.0 | |
| 93A | 60 | 73 | | | | | | | | | | | | | 32 | 2.0 | |
| 93A | 73 | 77 | | | | | | | | | | | | | 40 | 2.0 | |
| 93A | 77 | 81 | | | | | | | | | | | | | 15 | 1.0 | |
| 93A | 81 | 85 | | | | | | | | | | | | | 25 | 2.0 | |
| 93A | 85 | 114 | | | | | | | | | | | | | 36 | 2.0 | |
| 93A | 114 | 119 | | | | | | | | | | | | | 10 | 1.0 | |
| 93A | 119.5 | 123.5 | | | | | | | | | | | | | 38 | 2.0 | |
| 93A | 123.5 | 140 | | | | | | | | | | | | | 52 | 3.0 | |
| 93A | 140 | 146 | | | | | | | | | | | | | 33 | 2.0 | |
| 93A | 146 | 178 | | | | | | | | | | | | | 60 | 3.0 | |
| 93A | 178 | 184 | | | | | | | | | | | | | 52 | 3.0 | |
| 93A | 184 | 187 | | | | | | | | | | | | | 42 | 3.0 | |
| 93A | 187 | 194 | | | | | | | | | | | | | 54 | 3.0 | |
| 93A | 194 | 202 | | | | | | | | | | | | | 52 | 3.0 | |
| 93A | 202 | 278 | | | | | | | | | | | | | 70 | 4.0 | |
| 93A | 278 | 284 | | | | | | | | | | | | | 59 | 3.0 | |
| 93A | 284 | 301 | | | | | | | | | | | | | 55 | 3.0 | |
| 93A | 301 | 316 | | | | | | | | | | | | | 58 | 3.0 | |
| 93A | 316 | 326 | | | | | | | | | | | | | 20 | 1.0 | |
| 93A | 326 | 331 | | | | | | | | | | | | | 66 | 4.0 | |
| 93B | 0 | 20 | | | | | | | | | | | | | 0 | 0.0 | |
| 93B | 20 | 60 | | | | | | | | | | | | | 28 | 2.0 | |
| 93B | 60 | 63 | | | | | | | | | | | | | 15 | 1.0 | |
| 93B | 63 | 114 | | | | | | | | | | | | | 31 | 2.0 | |
| 93B | 114 | 127 | | | | | | | | | | | | | 15 | 1.0 | |
| 93B | 127 | 178 | | | | | | | | | | | | | 37 | 2.0 | |
| 93B | 178 | 186 | | | | | | | | | | | | | 48 | 3.0 | |
| 93B | 186 | 206 | | | | | | | | | | | | | 30 | 2.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 93B | 206 | 216 | | | | | | | | | | | | | 15 | 1.0 | |
| 93B | 216 | 236 | | | | | | | | | | | | | 20 | 1.0 | |
| 93B | 236 | 247 | | | | | | | | | | | | | 30 | 2.0 | |
| 93B | 247 | 258 | | | | | | | | | | | | | 46 | 3.0 | |
| 93B | 258 | 263 | | | | | | | | | | | | | 17 | 1.0 | |
| 93B | 263 | 270 | | | | | | | | | | | | | 40 | 2.0 | |
| 93B | 270 | 272 | | | | | | | | | | | | | 64 | 4.0 | |
| 93B | 272 | 279 | | | | | | | | | | | | | 25 | 2.0 | |
| 93B | 279 | 289 | | | | | | | | | | | | | 65 | 4.0 | |
| 93B | 294 | 312 | | | | | | | | | | | | | 55 | 3.0 | |
| 93B | 312 | 317 | | | | | | | | | | | | | 29 | 2.0 | |
| 93B | 317 | 340 | | | | | | | | | | | | | 54 | 3.0 | |
| 93B | 340 | 344 | | | | | | | | | | | | | 22 | 2.0 | |
| 93B | 344 | 350 | | | | | | | | | | | | | 50 | 3.0 | |
| 93B | 350 | 357 | | | | | | | | | | | | | 51 | 3.0 | |
| 93B | 357 | 362 | | | | | | | | | | | | | 41 | 3.0 | |
| 93B | 362 | 408 | | | | | | | | | | | | | 61 | 4.0 | |
| 93B | 408 | 409 | | | | | | | | | | | | | 28 | 2.0 | |
| 93B | 409 | 417 | | | | | | | | | | | | | 58 | 3.0 | |
| 93B | 417 | 421 | | | | | | | | | | | | | 47 | 3.0 | |
| 93B | 421 | 432 | | | | | | | | | | | | | 27 | 2.0 | |
| 93B | 432 | 459 | | | | | | | | | | | | | 58 | 3.0 | |
| 93C | 0 | 40 | | | | | | | | | | | | | 0 | 0.0 | |
| 93C | 40 | 65 | | | | | | | | | | | | | 23 | 2.0 | |
| 93C | 65 | 75 | | | | | | | | | | | | | 39 | 2.0 | |
| 93C | 75 | 92 | | | | | | | | | | | | | 31 | 2.0 | |
| 93C | 92 | 124 | | | | | | | | | | | | | 26 | 2.0 | |
| 93C | 124 | 142 | | | | | | | | | | | | | 44 | 3.0 | |
| 93C | 142 | 154 | | | | | | | | | | | | | 53 | 3.0 | |
| 93C | 154 | 159 | | | | | | | | | | | | | 23 | 2.0 | |
| 93C | 159 | 165 | | | | | | | | | | | | | 48 | 3.0 | |
| 93C | 165 | 202 | | | | | | | | | | | | | 54 | 3.0 | |
| 93C | 202 | 215 | | | | | | | | | | | | | 49 | 3.0 | |
| 93C | 215 | 240 | | | | | | | | | | | | | 58 | 3.0 | |
| 93D | 0 | 59 | | | | | | | | | | | | | 0 | 0.0 | |
| 93D | 59 | 62 | | | | | | | | | | | | | 30 | 2.0 | |
| 93D | 62 | 72 | | | | | | | | | | | | | 15 | 1.0 | |
| 93D | 72 | 104 | | | | | | | | | | | | | 30 | 2.0 | |
| 93D | 104 | 125 | | | | | | | | | | | | | 55 | 3.0 | |
| 93D | 125 | 134 | | | | | | | | | | | | | 43 | 3.0 | |
| 93D | 134 | 157 | | | | | | | | | | | | | 54 | 3.0 | |
| 93D | 157 | 165 | | | | | | | | | | | | | 44 | 3.0 | |
| 93D | 165 | 171 | | | | | | | | | | | | | 49 | 3.0 | |
| 93D | 171 | 175 | | | | | | | | | | | | | 34 | 2.0 | |
| 93D | 175 | 189 | | | | | | | | | | | | | 58 | 3.0 | |
| 93D | 189 | 200 | | | | | | | | | | | | | 45 | 3.0 | |
| 93D | 200 | 217 | | | | | | | | | | | | | 56 | 3.0 | |
| 93D | 217 | 241 | | | | | | | | | | | | | 51 | 3.0 | |
| 93D | 241 | 243 | | | | | | | | | | | | | 39 | 2.0 | |
| 93D | 243 | 257 | | | | | | | | | | | | | 66 | 4.0 | |
| 93D | 257 | 302 | | | | | | | | | | | | | 58 | 3.0 | |
| 93D | 302 | 342 | | | | | | | | | | | | | 59 | 3.0 | |
| 93E | 0 | 19 | | | | | | | | | | | | | 0 | 0.0 | |
| 93E | 19 | 72 | | | | | | | | | | | | | 18 | 1.0 | |
| 93E | 72 | 82 | | | | | | | | | | | | | 38 | 2.0 | |
| 93E | 82 | 104 | | | | | | | | | | | | | 48 | 3.0 | |
| 93E | 104 | 117 | | | | | | | | | | | | | 22 | 2.0 | |
| 93E | 117 | 124 | | | | | | | | | | | | | 34 | 2.0 | |
| 93E | 124 | 159 | | | | | | | | | | | | | 52 | 3.0 | |
| 93E | 159 | 171 | | | | | | | | | | | | | 59 | 3.0 | |
| 93E | 171 | 173 | | | | | | | | | | | | | 25 | 2.0 | |
| 93E | 173 | 228 | | | | | | | | | | | | | 46 | 3.0 | |
| 93E | 228 | 237 | | | | | | | | | | | | | 25 | 2.0 | |

| Drill Hole | From | Run Depth To (m) | Run Length (m) | Hardness | J1 | RQD Length (m) | RQD % | J2 | Fractures | Fract/m | Spacing mm | J3 | Joint Condition/J4 | water/J5 | RMR | Rippability Index | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 93E | 237 | 245 | | | | | | | | | | | | | 48 | 3.0 | |
| 93E | 245 | 255 | | | | | | | | | | | | | 28 | 2.0 | |
| 93E | 255 | 272 | | | | | | | | | | | | | 30 | 2.0 | |
| 93E | 272 | 297 | | | | | | | | | | | | | 40 | 2.0 | |
| 93E | 297 | 300 | | | | | | | | | | | | | 20 | 1.0 | |
| 93E | 300 | 315 | | | | | | | | | | | | | 40 | 2.0 | |
| 93F | 0 | 29 | | | | | | | | | | | | | 0 | 0.0 | |
| 93F | 29 | 53 | | | | | | | | | | | | | 19 | 1.0 | |
| 93F | 53 | 64 | | | | | | | | | | | | | 40 | 2.0 | |
| 93F | 64 | 69 | | | | | | | | | | | | | 32 | 2.0 | |
| 93F | 69 | 74 | | | | | | | | | | | | | 49 | 3.0 | |
| 93F | 74 | 110 | | | | | | | | | | | | | 44 | 3.0 | |
| 93F | 110 | 131 | | | | | | | | | | | | | 46 | 3.0 | |
| 93F | 131 | 147 | | | | | | | | | | | | | 20 | 1.0 | |
| 93F | 147 | 194 | | | | | | | | | | | | | 43 | 3.0 | |
| 93F | 194 | 211 | | | | | | | | | | | | | 35 | 2.0 | |
| 93F | 211 | 241 | | | | | | | | | | | | | 48 | 3.0 | |
| 93F | 241 | 274 | | | | | | | | | | | | | 55 | 3.0 | |
| 93G | 0 | 42 | | | | | | | | | | | | | 0 | 0.0 | |
| 93G | 42 | 62 | | | | | | | | | | | | | 15 | 1.0 | |
| 93G | 62 | 109 | | | | | | | | | | | | | 40 | 2.0 | |
| 93G | 109 | 117 | | | | | | | | | | | | | 55 | 3.0 | |
| 93G | 117 | 157 | | | | | | | | | | | | | 37 | 2.0 | |
| 93G | 157 | 170 | | | | | | | | | | | | | 46 | 3.0 | |
| 93G | 170 | 172 | | | | | | | | | | | | | 15 | 1.0 | |
| 93G | 172 | 177 | | | | | | | | | | | | | 37 | 2.0 | |
| 93G | 177 | 188 | | | | | | | | | | | | | 49 | 3.0 | |
| 93G | 188 | 206 | | | | | | | | | | | | | 50 | 3.0 | |
| 93G | 206 | 225 | | | | | | | | | | | | | 58 | 3.0 | |
| 93G | 225 | 252 | | | | | | | | | | | | | 63 | 4.0 | |
| 93H | 0 | 50 | | | | | | | | | | | | | 0 | 0.0 | |
| 93H | 50 | 87.5 | | | | | | | | | | | | | 21 | 1.0 | |
| 93H | 87.5 | 96 | | | | | | | | | | | | | 29 | 2.0 | |
| 93H | 96 | 104 | | | | | | | | | | | | | 20 | 1.0 | |
| 93H | 104 | 125 | | | | | | | | | | | | | 23 | 2.0 | |
| 93H | **125** | **139** | | | | | | | | | | | | | 24 | 2.0 | |
| 93H | 139 | 159 | | | | | | | | | | | | | 15 | 1.0 | |
| 93H | 159 | 167 | | | | | | | | | | | | | 32 | 2.0 | |
| 93H | **167** | **175** | | | | | | | | | | | | | 38 | 2.0 | |
| 93H | 175 | 177 | | | | | | | | | | | | | 20 | 1.0 | |
| 93H | 177 | 180 | | | | | | | | | | | | | 29 | 2.0 | |
| 93H | 180 | 237 | | | | | | | | | | | | | 44 | 3.0 | |
| 93H | 237 | 242 | | | | | | | | | | | | | 30 | 2.0 | |
| 93H | 242 | 260 | | | | | | | | | | | | | 42 | 3.0 | |
| 93H | 260 | 300 | | | | | | | | | | | | | 57 | 3.0 | |

# APPENDIX

## APPENDIX H EBA TERMS AND CONDITIONS

## GEOTECHNICAL REPORT – GENERAL CONDITIONS

This report incorporates and is subject to these "General Conditions".

### 1.0 USE OF REPORT AND OWNERSHIP

This geotechnical report pertains to a specific site, a specific development and a specific scope of work. It is not applicable to any other sites nor should it be relied upon for types of development other than that to which it refers. Any variation from the site or development would necessitate a supplementary geotechnical assessment.

This report and the recommendations contained in it are intended for the sole use of EBA's client. EBA does not accept any responsibility for the accuracy of any of the data, the analyses or the recommendations contained or referenced in the report when the report is used or relied upon by any party other than EBA's client unless otherwise authorized in writing by EBA. Any unauthorized use of the report is at the sole risk of the user.

This report is subject to copyright and shall not be reproduced either wholly or in part without the prior, written permission of EBA. Additional copies of the report, if required, may be obtained upon request.

### 2.0 NATURE AND EXACTNESS OF SOIL AND ROCK DESCRIPTIONS

Classification and identification of soils and rocks are based upon commonly accepted systems and methods employed in professional geotechnical practice. This report contains descriptions of the systems and methods used. Where deviations from the system or method prevail, they are specifically mentioned.

Classification and identification of geological units are judgmental in nature as to both type and condition. EBA does not warrant conditions represented herein as exact, but infers accuracy only to the extent that is common in practice.

Where subsurface conditions encountered during development are different from those described in this report, qualified geotechnical personnel should revisit the site and review recommendations in light of the actual conditions encountered.

### 3.0 LOGS OF TESTHOLES

The testhole logs are a compilation of conditions and classification of soils and rocks as obtained from field observations and laboratory testing of selected samples. Soil and rock zones have been interpreted. Change from one geological zone to the other, indicated on the logs as a distinct line, can be, in fact, transitional. The extent of transition is interpretive. Any circumstance which requires precise definition of soil or rock zone transition elevations may require further investigation and review.

### 4.0 STRATIGRAPHIC AND GEOLOGICAL INFORMATION

The stratigraphic and geological information indicated on drawings contained in this report are inferred from logs of test holes and/or soil/rock exposures. Stratigraphy is known only at the locations of the test hole or exposure. Actual geology and stratigraphy between test holes and/or exposures may vary from that shown on these drawings. Natural variations in geological conditions are inherent and are a function of the historic environment. EBA does not represent the conditions illustrated as exact but recognizes that variations will exist. Where knowledge of more precise locations of geological units is necessary, additional investigation and review may be necessary.

### 5.0 SURFACE WATER AND GROUNDWATER CONDITIONS

Surface and groundwater conditions mentioned in this report are those observed at the times recorded in the report. These conditions vary with geological detail between observation sites; annual, seasonal and special meteorologic conditions; and with development activity. Interpretation of water conditions from observations and records is judgmental and constitutes an evaluation of circumstances as influenced by geology, meteorology and development activity. Deviations from these observations may occur during the course of development activities.

### 6.0 PROTECTION OF EXPOSED GROUND

Excavation and construction operations expose geological materials to climatic elements (freeze/thaw, wet/dry) and/or mechanical disturbance which can cause severe deterioration. Unless otherwise specifically indicated in this report, the walls and floors of excavations must be protected from the elements, particularly moisture, desiccation, frost action and construction traffic.

### 7.0 SUPPORT OF ADJACENT GROUND AND STRUCTURES

Unless otherwise specifically advised, support of ground and structures adjacent to the anticipated construction and preservation of adjacent ground and structures from the adverse impact of construction activity is required.

## 8.0 INFLUENCE OF CONSTRUCTION ACTIVITY

There is a direct correlation between construction activity and structural performance of adjacent buildings and other installations. The influence of all anticipated construction activities should be considered by the contractor, owner, architect and prime engineer in consultation with a geotechnical engineer when the final design and construction techniques are known.

## 9.0 OBSERVATIONS DURING CONSTRUCTION

Because of the nature of geological deposits, the judgmental nature of geotechnical engineering, as well as the potential of adverse circumstances arising from construction activity, observations during site preparation, excavation and construction should be carried out by a geotechnical engineer. These observations may then serve as the basis for confirmation and/or alteration of geotechnical recommendations or design guidelines presented herein.

## 10.0 DRAINAGE SYSTEMS

Where temporary or permanent drainage systems are installed within or around a structure, the systems which will be installed must protect the structure from loss of ground due to internal erosion and must be designed so as to assure continued performance of the drains. Specific design detail of such systems should be developed or reviewed by the geotechnical engineer. Unless otherwise specified, it is a condition of this report that effective temporary and permanent drainage systems are required and that they must be considered in relation to project purpose and function.

## 11.0 BEARING CAPACITY

Design bearing capacities, loads and allowable stresses quoted in this report relate to a specific soil or rock type and condition. Construction activity and environmental circumstances can materially change the condition of soil or rock. The elevation at which a soil or rock type occurs is variable. It is a requirement of this report that structural elements be founded in and/or upon geological materials of the type and in the condition assumed. Sufficient observations should be made by qualified geotechnical personnel during construction to assure that the soil and/or rock conditions assumed in this report in fact exist at the site.

## 12.0 SAMPLES

EBA will retain all soil and rock samples for 30 days after this report is issued. Further storage or transfer of samples can be made at the client's expense upon written request, otherwise samples will be discarded.

## 13.0 STANDARD OF CARE

Services performed by EBA for this report have been conducted in a manner consistent with the level of skill ordinarily exercised by members of the profession currently practising under similar conditions in the jurisdiction in which the services are provided. Engineering judgement has been applied in developing the conclusions and/or recommendations provided in this report. No warranty or guarantee, express or implied, is made concerning the test results, comments, recommendations, or any other portion of this report.

## 14.0 ENVIRONMENTAL AND REGULATORY ISSUES

Unless stipulated in the report, EBA has not been retained to investigate, address or consider and has not investigated, addressed or considered any environmental or regulatory issues associated with development on the subject site.

## 15.0 ALTERNATE REPORT FORMAT

Where EBA submits both electronic file and hard copy versions of reports, drawings and other project-related documents and deliverables (collectively termed EBA's instruments of professional service), the Client agrees that only the signed and sealed hard copy versions shall be considered final and legally binding. The hard copy versions submitted by EBA shall be the original documents for record and working purposes, and, in the event of a dispute or discrepancies, the hard copy versions shall govern over the electronic versions. Furthermore, the Client agrees and waives all future right of dispute that the original hard copy signed version archived by EBA shall be deemed to be the overall original for the Project.

The Client agrees that both electronic file and hard copy versions of EBA's instruments of professional service shall not, under any circumstances, no matter who owns or uses them, be altered by any party except EBA. The Client warrants that EBA's instruments of professional service will be used only and exactly as submitted by EBA.

The Client recognizes and agrees that electronic files submitted by EBA have been prepared and submitted using specific software and hardware systems. EBA makes no representation about the compatibility of these files with the Client's current or future software and hardware systems.