Shape

Term	Symbol	Description
Planar	PL	Forms a continuous plane without variation in orientation.
Curved	CU	Has a gradual change in orientation.
Undulating	UN	Has a wavy surface shape.
Stepped	ST	Has one or more well defined steps
Irregular	IR	Many changes of orientation.

Roughness

Term	Symbol	Description
Slickensided or polished	Ro1	Very smooth, reflects light.
Smooth	Ro2	Roughness not detected with finger.
Defined ridges	Ro3	Sandpaper feel (fine to medium sandpaper).
Small steps	Ro4	Sandpaper feel (medium to coarse sandpaper).
Very rough	Ro5	Very well defined ridges and/or steps.

Infill Type

Symbol	Description
KL	Clean
CA	Calcite
CB	Carbonaceous
CHL	Chlorite
FE	Iron oxide
QZ	Quartz
MG	Manganese
SU	Sulphides
SE	Sericite
RF	Rock fragments
G	Gravel
S	Sand
Z	Silt
CL	Clay

Infill Thickness

Where infilling is present, the thickness of infill is recorded using the following convention:

ST Iron oxide staining of less than 1 mm
VN Veneer coating of less than 1 mm

If the infilling is greater than 1 mm, the actual thickness of infill is recorded in millimeters.

If infill is not present, a dash (-) is recorded

Number

Number of defects with similar characteristics.

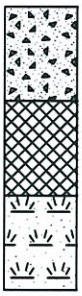
Miscellaneous

CATACLASTIC – FAULT GOUGE: soft puggy, possibly foliated fault infill

CAVITY: cavity – as indicated by driller

NO_CORE: No Core

Man-Made

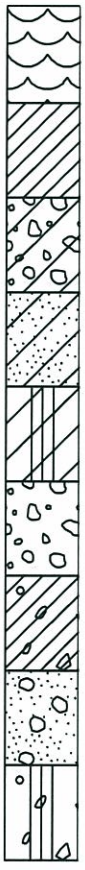


MAN-MADE – CONCRETE/ASPHALT: man-made surface paving

MAN-MADE – FILL: Fill (made ground)

MAN-MADE TOPSOIL: Topsoil

Soil



SOIL – ALLUVIUM: reworked material deposited by water in the past

SOIL – CLAY: Clay

SOIL – CLAYEY GRAVEL: Clayey Gravel

SOIL – CLAYEY SAND: Clayey Sand

SOIL – CLAYEY SILT: Clayey Silt

SOIL – GRAVEL: Gravel

SOIL – GRAVELLY CLAY: Gravelly Clay

SOIL – GRAVELLY SAND: Gravelly Sand

SOIL – GRAVELLY SILT: Gravelly Silt

SOIL – SAND: Sand

SOIL – SANDY CLAY: Sandy Clay

SOIL – SANDY GRAVEL: Sandy Gravel

SOIL – SANDY SILT: Sandy Silt

SOIL – SHELLS: unconsolidated marine material

SOIL – SILT: Silt

SOIL – SILTY CLAY: Silty Clay

SOIL – SILTY SAND: Silty Sand

SOIL – SILTY GRAVEL: Silty Gravel

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LITHOLOGY GRAPHIC SYMBOLS
SOIL, MAN-MADE & MISCELLANEOUS

Igneous

IGNEOUS – ANDESITE: mid range mafic to felsic igneous fine grained rock (moderate in quartz and in colour)

IGNEOUS – BASALT (MAFIC): mafic igneous fine grained rock (dark in colour)

IGNEOUS – DIORITE: mid range felsic to mafic igneous coarse grained rock (moderate quartz)

IGNEOUS – DOLERITE: dolerite

IGNEOUS – GABBRO (MAFIC): mafic igneous coarse grained rock (low quartz, dark in colour)

IGNEOUS – GRANITE (FELSIC): felsic igneous coarse grained rock (light in colour)

IGNEOUS – RHYOLITE (FELSIC): felsic igneous fine grained rock (light in colour)

IGNEOUS – TUFF/IGNIMBRITE: extremely fine grained air fall volcanic

Metamorphic

METAMORPHIC – AMPHIBOLITE: non-foliated metamorphic rock formed by regional metamorphism of mafic igneous rocks

METAMORPHIC – GNEISS: a foliated high grade metamorphic rock

METAMORPHIC – HORNFELS: contact metamorphic rock

METAMORPHIC – MARBLE: metamorphosed limestone

METAMORPHIC – SCHIST: a foliated high grade metamorphic rock

METAMORPHIC – SKARN: contact metamorphosed carbonate body

METAMORPHIC – SLATE/PHYLLITE: low grade regionally metamorphosed rock

Sedimentary

SEDIMENTARY – BRECCIA: consolidated clastic rock made up of angular clasts

SEDIMENTARY – CALCRETE/SILCRETE: Calcrete or silcrete

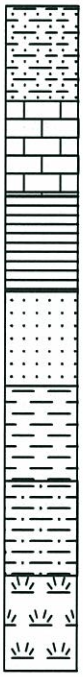
SEDIMENTARY – CHERT: chert/quartz

SEDIMENTARY – COAL: Coal

SEDIMENTARY – CONGLOMERATE: consolidated rounded clastic material

SEDIMENTARY – DOLOMITE: Dolomite

SEDIMENTARY – IRONSTONE: hard iron enriched layer



SEDIMENTARY – LAMINITE: interbedded sandstone and siltstone

SEDIMENTARY – LIMESTONE: Limestone

SEDIMENTARY – MUDSTONE: Mudstone

SEDIMENTARY – SANDSTONE: Sandstone

SEDIMENTARY – SHALE: Shale

SEDIMENTARY – SILTSTONE: Siltstone

SEDIMENTARY – SWAMP/PEAT: Peat (Swamp Symbol)

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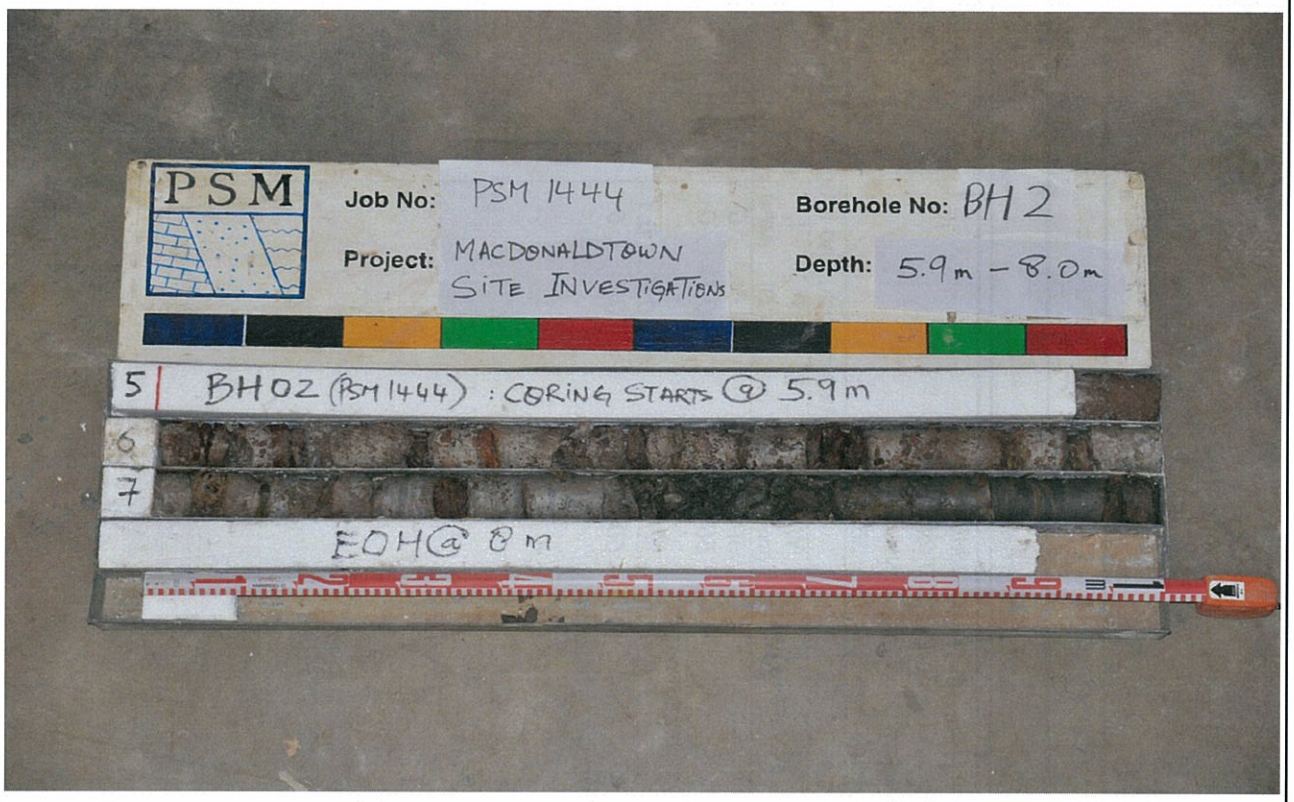
LITHOLOGY GRAPHIC SYMBOLS
IGNEOUS, METMORPHIC & SEDIMENTARY



Incoll Pty Ltd **MacDonaldtown Gasworks Remediation Project** **Geotechnical Investigation** **CORE PHOTOGRAPH OF BH02**	
PSM 1444.R1	**Appendix A**

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POINT LOAD STRENGTH INDEX TEST RESULTS

Job No. *PSM1444* **Sheet** 1 of 1

Project *Geotechnical Investigation For Macdonaldtown Gasworks Remediation Project*

Test Method *AS 4133.4.1 - 1993 Methods of Testing Rocks for Engineering Purposes, Determination of Point Load Strength Index*
Test Machine *Model 6500*
Calibration Date *30/11/2007*

Sampling Technique *NMLC*
Storage History *Tested on site*
Moisture Condition *Natural*
Loading Rate *< 30 seconds*

Sampling Date *16/6/2010*
Testing Date *2/07/2010*
Tested By *HCH*

Rock Type	Location	Depth (m)	Diametral Tests					Axial, Block, and Irregular Lump Tests							AS 1726 Strength Class
			D (mm)	L (mm)	P (kN)	$I_{s(50)}$ (MPa)	Failure Mode	W (mm)	D (mm)	L (mm)	P (kN)	I_s (MPa)	$I_{s(50)}$ (MPa)	Failure Mode	
Shale	***BH02***	***6.21***						*50*	*49*		*0*	*0*	***0***	*Through substance*	***VL***
Shale	***BH02***	***6.30***						*50*	*49*		*0.1*	*0*	***0***	*Through substance*	***VL***
Shale	***BH02***	***6.79***	*50*	*130*	*0*	***0***	*Through substance*								***VL***
Shale	***BH02***	***7.35***						*50*	*49*		*0.2*	*0.1*	***0.1***	*Through substance*	***VL***
Shale	***BH02***	***7.81***						*50*	*49*		*0.1*	*0*	***0***	*Through substance*	***VL***
Shale	***BH02***	***7.90***	*50*	*110*	*0*	***0***	*Through substance*								***VL***

By: ***HCH*** **Checked:** ***AS*** **Date:** ***7/8/2009***