

# **Sloane Weldon** Pty. Ltd.

**Engineering & Groundwater Geologists**

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**SW Report: 1998/15**

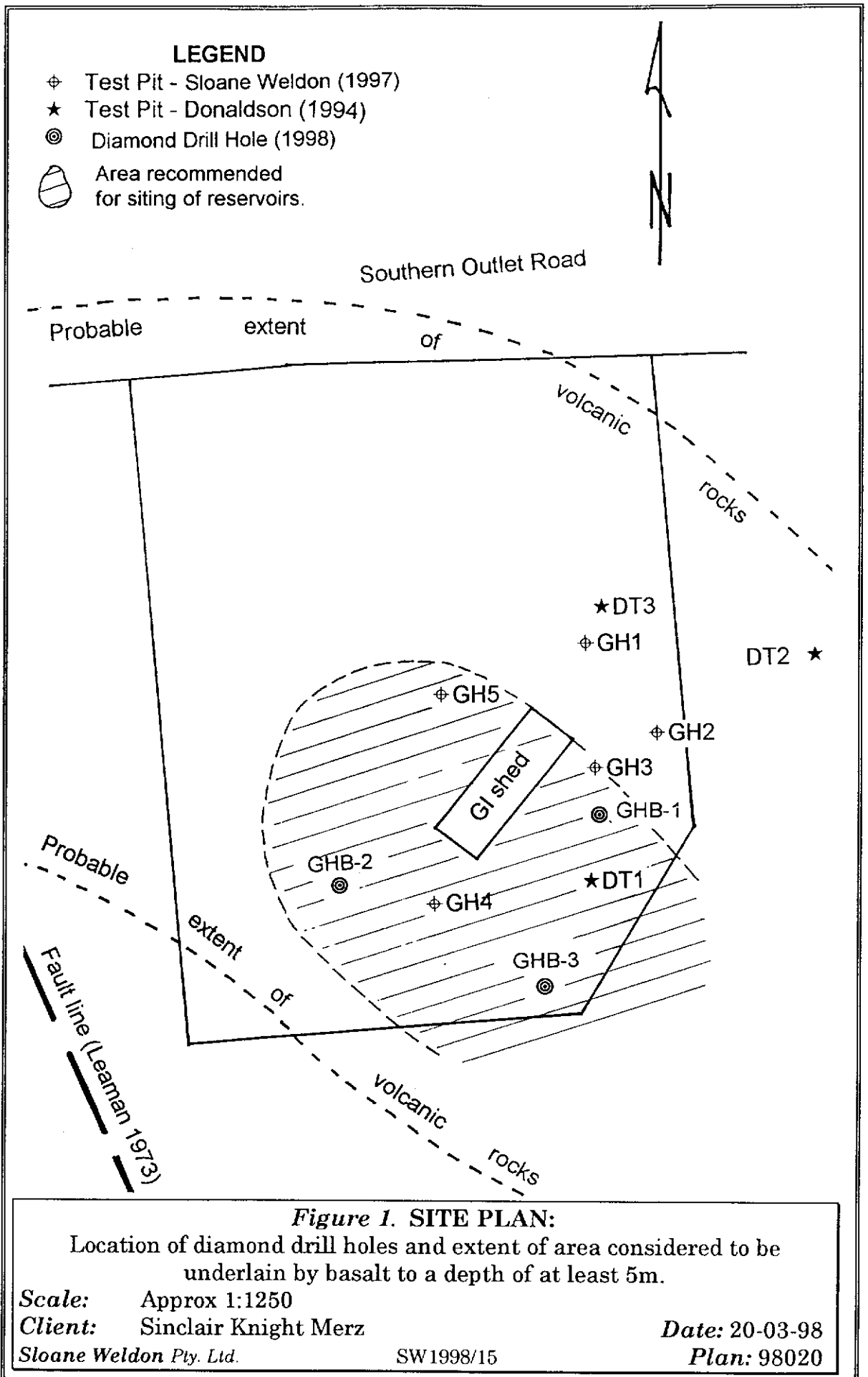
## **GEOTECHNICAL ASSESSMENT:**

**Diamond Drill Holes: Proposed Reservoirs,  
'Glenhall' KINGSTON**

**Client: Sinclair Knight Merz**

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43 049



REF 19327

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**ENGINEERING LOG - Cored Borehole**

Borehole no.:  
**GHB-1**  
 sheet: 1 of 1

Project : **Proposed 4.5ML Reservoir.** *E. 524005* Location : **Glenhall, Kingston.**  
*N. 5242740*

Co-ordinates : Refer to Site plan Drill type : Mobile B40 Hole Commenced : 16/3/98  
 R.L. : Approx 96.5m A.H.D. Drill method : NMLC Hole Completed : 16/3/98  
 Inclination : Vertical Drill fluid : Water Logged by : BDW  
 Bearing : - Contractor : Stacpoole Checked by : NJH

Drilling Information					Rock substance					Rock mass defects						
case lift	fluid loss	water	notes	depth metres	graphic log	substance description rock type: grain characteristics; colour; structure and minor components.	weathering	strength					defect spacing mm	defect description		
								EL	VL	L	W	H		SH	30	100
				0.5		CLAY: Dark brown; some sand & gravel in washing returns.										
				0.80												
				0.87	VVVV	BASALT: Fine grained; grey; vesicular with dull yellow - vesicle in-filling.	Fr-SW									
				1.0	VVVV											
				1.34	VVVV											
				1.47	VVVV											
				1.5	VVVV											
				2.0	VVVV											
				2.5	VVVV											
				2.97	VVVV											
				3.0	VVVV											
				3.5	VVVV											
				4.0	VVVV											
				4.30	VVVV											
				4.5	VVVV											
				5.0	VVVV											

Roller Tricone  
 II  
 II  
 NMLC  
 I

Generally rough joints at 15°-40° with some rough subvertical, planar to curved joints.

2-3mm clay lining at 1.33m depth.

White powdery coating on mostly rough, planar, subhorizontal joints at 2.26, 2.35, 2.50, 3.13, 3.17, 3.30, 4.0 & 5.0m depth.

Subvertical, rough, planar to curved at 2.4m depth.

Subvertical, rough, curved at 3.35m depth.

Subvertical, rough, curved at 5.0m depth.

43 051

REF 19328

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**ENGINEERING LOG - Cored Borehole**

Borehole no.:  
**GHB-2**  
 sheet: 1 of 2

Project : **Proposed 4.5ML Reservoir.** *E. 523 960*  
*N. 524 2725* Location : **Glenhall, Kingston.**  
 Co-ordinates : Refer to Site plan Drill type : Mobile B40 Hole Commenced : 17/3/98  
 R.L. : Approx 96.5m A.H.D. Drill method : NMLC Hole Completed : 17/3/98  
 Inclination : Vertical Drill fluid : Water Logged by : BDW  
 Bearing : - Contractor : Stacpoole Checked by : NJH

Drilling Information					Rock substance				Rock mass defects							
case lift	fluid loss	water	notes	depth metres	graphic log	substance description rock type: grain characteristics; colour; structure and minor components.	weathering	strength				defect spacing mm	defect description			
								EL	VL	L	M		H	VH	EH	30
				0.5		CLAY: Dark brown; some sand & gravel in washing returns.										
				0.63												
				1.0	V V V V	BASALT: Fine grained; grey; vesicular.	Fr-SW									Generally rough subhorizontal to 40° joints, irregular surfaces, occasional 60°-70° rough joints irregular surfaces often with some weathering (iron staining).
				1.40	V V V V											
				1.5	V V V V											
				2.0	V V V V											White powdery coating on mostly subhorizontal joints at 1.7, 2.17, 2.7, 3.95, 4.2, 4.4 & 4.5m depth.
				2.5	V V V V											
				3.00	V V V V											
				3.5	V V V V											
				4.0	V V V V											
				4.50	V V V V											
				5.0	V V V V											

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Borehole no.:

**GHB-2**

sheet: **2** of: **2**

**ENGINEERING LOG - Cored Borehole**

Project : **Proposed 4.5ML Reservoir.**

Location : **Glenhall, Kingston.**

Co-ordinates : Refer to Site plan	Drill type : Mobile B40	Hole Commenced : 17/3/98
R.L. : Approx 96.5m A.H.D.	Drill method : NMLC	Hole Completed : 17/3/98
Inclination : Vertical	Drill fluid : Water	Logged by : BDW
Bearing : -	Contractor : Stacpoole	Checked by : NJH

Drilling Information				Rock substance				Rock mass defects									
case lift	fluid loss	water	notes	depth metres	graphic log	substance description rock type: grain characteristics; colour; structure and minor components.	weathering	strength				defect spacing mm		defect description thickness, type, inclination, planarity, roughness, coating.			
								CI	UC	L	M	H	UC	CI	30	100	300
NMLC				5.0	V V V V	BASALT: Fine grained; grey; vesicular.	Fr-SW										
				5.2	V V V V	TERMINATED at 5.2m depth.											
				5.5													
				6.0													

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Borehole no.:

**GHB-3**

sheet: **1** of: **1**

**ENGINEERING LOG - Cored Borehole**

Project : **Proposed 4.5ML Reservoir.** *E. 524005* Location : **Glenhall, Kingston.**  
*N. 5242700*

Co-ordinates : Refer to Site plan Drill type : Mobile B40 Hole Commenced : 17/3/98  
 R.L. : Approx 98.5m A.H.D. Drill method : NMLC Hole Completed : 17/3/98  
 Inclination : Vertical Drill fluid : Water Logged by : BDW  
 Bearing : - Contractor : Stacpoole Checked by : NJH

Drilling Information				Rock substance				Rock mass defects								
case lift	fluid loss	water	notes	depth metres	graphic log	substance description rock type: grain characteristics; colour; structure and minor components.	weathering	strength					defect spacing mm	defect description		
								EL	SL	UL	WH	BT		30	100	300
				0.5		CLAY: Dark brown; some sand & gravel in washing returns.										
				1.05												
				1.5	VVVVV	BASALT: Fine grained; grey; vesicular.	Fr-SW									Generally subhorizontal rough irregular to planar joints. White powdery coating (secondary mineralization) at 1.2, 1.3, 1.5, 1.6, 1.7, 1.86, 1.92, 2.0, 2.12, 2.21, 2.27 & 2.39m depth.
				2.0	VVVVV											
				2.5	VVVVV											
				2.57	VVVVV											
				3.03		CORE LOSS										
				3.5	VVVVV											Generally subhorizontal rough irregular to planar joints. White powdery subhorizontal joints at 3.45, 3.52, 3.58, 3.6, & 3.67m depth.
				4.07	VVVVV											
				4.85		CORE LOSS										
				5.0		End of hole ( bit worn out & no replacement)										

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