

EBA Engineering Consultants Ltd.

Civil, Geotechnical and Materials Engineers



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EBA Engineering Consultants Ltd.

Civil, Geotechnical and Materials Engineers

1992 02 06

Mr. Rick Quinn
Terra Surveys Ltd.
1962 Mills Road
Sidney, B.C.

EBA File: 0306-34786

Dear Mr. Quinn,

Subject: Beaufort Sea Granular Resources Workshop

The enclosed Preview Volume is intended to generally familiarize you with some of the material which will be presented at the workshop. We want to achieve a higher level of informed discussion by providing key people with a chance to review the presentations in advance.

We hope to see you on February 13th, 1992.

Respectfully submitted,
EBA Engineering Consultants Ltd.



Neil R. MacLeod, P.Eng.,
Sr. Engineering Geologist

NRM/jy

Encl.

SOUTH TARSUT BORROW AREA		ORIGINAL BOREHOLE NO. C-TAR-3		BOREHOLE No. STCS3	
DOME PETROLEUM LTD.		WATER DEPTH - 10.00m (approximately)		Project No: EBA # 101-3210	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED		ELEVATION -10.00 (m)	
SAMPLE TYPE ☐ SHELLY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	A.D.P. (mm) & 10000 30000 50000 60000			USC	DEPTH (m)
				PLASTIC	M.C.	LIQUID		
0.0		3	SILT (CL) - clayey, some sand, angular gravel and cobbles up to 150 mm diameter, soft, low to medium plasticity				CL	0.0
			END OF CLAMSHELL SAMPLE					
1.0								1.0
2.0								2.0
3.0								3.0

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		LOGGED BY JPR	DWG NO. Page 1 of 1

SOUTH TARSUT BORROW AREA		ORIGINAL BOREHOLE NO. C-TAR-4		BOREHOLE No. STCS4	
DOME PETROLEUM LTD.		WATER DEPTH - 10.00m (approximately)		Project No: EBA # 101-3210	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED		ELEVATION -10.00 (m)	
SAMPLE TYPE ☐ SHELLY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	A.D.P. (mm) & 10000 30000 50000 60000			USC	DEPTH (m)
				PLASTIC	M.C.	LIQUID		
0.0		4	SILT (CL) - clayey, trace of sand, soft to firm, low to medium plasticity, sand layer 5 mm thick with some gravel at surface				CL	0.0
			END OF CLAMSHELL SAMPLE					
1.0								1.0
2.0								2.0
3.0								3.0

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		LOGGED BY JPR	DWG NO. Page 1 of 1

SOUTH TARSUUT BORROW AREA		ORIGINAL BOREHOLE NO. C-TAR-5		BOREHOLE No. STCS5	
DOME PETROLEUM LTD.		WATER DEPTH - 10.00m (approximately)		Project No: EBA # 101-3210	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED		ELEVATION - 10.00 (m)	
SAMPLE TYPE ☐ SHREIBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISBURBED ☐ PISTON ☐ CLAMSHELL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO.	SOIL DESCRIPTION	PLASTIC	MC	LIQUID	USC	DEPTH (m)
0.0		5	SILT - clayey, some sand, trace of gravel very soft, low to medium plasticity					0.0
			END OF CLAMSHELL SAMPLE					
								1.0
								2.0
								3.0
1.0								

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LOGGED BY JPR	DWG NO.	Page 1 of 1	

SOUTH TARSUUT BORROW AREA		ORIGINAL BOREHOLE NO. C-TAR-6		BOREHOLE No. STCS6	
DOME PETROLEUM LTD.		WATER DEPTH - 10.00m (approximately)		Project No: EBA # 101-3210	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED		ELEVATION - 10.00 (m)	
SAMPLE TYPE ☐ SHREIBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISBURBED ☐ PISTON ☐ CLAMSHELL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO.	SOIL DESCRIPTION	PLASTIC	MC	LIQUID	USC	DEPTH (m)
0.0		1	SILT AND CLAY (CL) - trace of sand and gravel, very soft, medium plasticity					0.0
			END OF CLAMSHELL SAMPLE					
								1.0
								2.0
								3.0
1.0								

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LOGGED BY JPR	DWG NO.	Page 1 of 1	

SOUTH THARSUAT BORROW AREA		ORIGINAL BOREHOLE NO. C-TAR-8		BOREHOLE No. STCS8		
DOME PETROLEUM LTD.		WATER DEPTH - 10.00m (approximately)		Project No. EBA / 101-3210		
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED		ELEVATION - 10.00 (m)		
SAMPLE TYPE		SHELBY TUBE		NO RECOVERY		
SAMPLE TYPE		SPLIT SPOON		DISTURBED		
SAMPLE TYPE		PISTON		CLAMSHELL		
DEPTH (m)	SAMPLE TYPE	SAMPLE NO.	SOIL DESCRIPTION	10000 20000 30000 40000	5000 10000 15000 20000 25000 30000 35000 40000	DEPTH (m)
0.0			SAND (SP) - trace of gravel sizes up to 25mm diameter, fine to medium grained, uniformly to gap graded			0.0
1.0			END OF CLAMSHELL SAMPLE			1.0
						2.0
						3.0

SOUTH TARSUT BORROW AREA		ORIGINAL BOREHOLE NO. C-TAR-9		BOREHOLE No. STCS9	
DOME PETROLEUM LTD.		WATER DEPTH - 10.00m (approximately)		Project No: EBA # 101-3210	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED		ELEVATION -10.00 (m)	
SAMPLE TYPE ☒ SHIELD TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	A 100 (mm) A			USC			DEPTH (ft)
				10000	20000	40000	20	40	80	
0.0		8	GRAVEL AND COBBLES (GP) - between 10 mm and 120 mm diameter, uniformly graded							0.0
			END OF CLAMHELL SAMPLE							
1.0										1.0
2.0										2.0
3.0										3.0
1.4										

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LOGGED BY JPR	DWG NO.	Page 1 of 1	

SOUTH TARSUT BORROW AREA		ORIGINAL BOREHOLE NO. C-TAR-10		BOREHOLE No. STCS10	
DOME PETROLEUM LTD.		WATER DEPTH - 10.00m (approximately)		Project No: EBA # 101-3210	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED		ELEVATION -10.00 (m)	
SAMPLE TYPE ☒ SHIELD TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	A 100 (mm) A			USC			DEPTH (ft)
				10000	20000	40000	20	40	80	
0.0		10	GRAVEL AND COBBLES (GP) - between 10 mm and 120 mm diameter, uniformly graded							0.0
			END OF CLAMHELL SAMPLE							
1.0										1.0
2.0										2.0
3.0										3.0
1.8										

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LOGGED BY JPR	DWG NO.	Page 1 of 1	

SOUTH TARSUUT BORROW AREA		ORIGINAL BOREHOLE NO. C-TAR-13		BOREHOLE No. STCS13	
DOME PETROLEUM LTD.		WATER DEPTH - 10.00m (approximately)		Project No: EBA # 101-3210	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED		ELEVATION -10.00 (m)	
SAMPLE TYPE ☒ SHELLY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	1000 2000 3000 4000	PLASTIC	M.C.	LIQUID	USC	DEPTH (m)
0.0		13	SAND (SP) - fine to medium grained, uniformly graded						0.0
			END OF CLAMSHELL SAMPLE						
1.0									1.0
2.0									2.0
3.0									3.0

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LOGGED BY JFR		DWC NO.		Page 1 of 1	

SOUTH TARSUUT BORROW AREA		ORIGINAL BOREHOLE NO. C-TAR-14		BOREHOLE No. STCS14	
DOME PETROLEUM LTD.		WATER DEPTH - 10.00m (approximately)		Project No: EBA # 101-3210	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED		ELEVATION -10.00 (m)	
SAMPLE TYPE ☒ SHELLY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	1000 2000 3000 4000	PLASTIC	M.C.	LIQUID	USC	DEPTH (m)
0.0		14	SAND (SP) - gravelly, trace silt, particle sizes up to 30mm diameter, gap graded						0.0
			END OF CLAMSHELL SAMPLE						
1.0									1.0
2.0									2.0
3.0									3.0

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LOGGED BY JFR		DWC NO.		Page 1 of 1	

SOUTH TARSUT BORROW AREA		ORIGINAL BOREHOLE NO. C-TAR-15		BOREHOLE No. STCS15	
DOME PETROLEUM LTD.		WATER DEPTH - 18.00m (approximately)		Project No: EBA / 101-3210	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED		ELEVATION - 10.00 (m)	
SAMPLE TYPE ☒ SHIELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO.	SOIL DESCRIPTION	A 000 (mm) A 10000 20000 30000 40000 PLASTIC M.C. LIQUID 20 40 60 80	20 40 60 80 CLAY 20 40 60 80 SILT 20 40 60 80 SAND 20 40 60 80 GRAVEL	USC	DEPTH (m)
0.0		10	SILT (CL) - clayey, some sand, trace gravel sizes, one 150mm diameter cobble, strong organic odour, low plasticity, soft (with 10 mm thick layers of sand near surface) END OF CLAMSHELL SAMPLE			CL	0.0
1.0							1.0
2.0							2.0
3.0							3.0

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LOGGED BY JFR		DWG NO.	Page 1 of 1

SOUTH TARSUT BORROW AREA		ORIGINAL BOREHOLE NO. C-TAR-16		BOREHOLE No. STCS16	
DOME PETROLEUM LTD.		WATER DEPTH - 10.00m (approximately)		Project No: EBA / 101-3210	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED		ELEVATION - 10.00 (m)	
SAMPLE TYPE ☒ SHIELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO.	SOIL DESCRIPTION	A 000 (mm) A 10000 20000 30000 40000 PLASTIC M.C. LIQUID 20 40 60 80	20 40 60 80 CLAY 20 40 60 80 SILT 20 40 60 80 SAND 20 40 60 80 GRAVEL	USC	DEPTH (m)
0.0		10	SAND (SP) - some gravel, some organics, trace silt, soft, 6mm thick layers of sand at surface, black END OF CLAMSHELL SAMPLE			SP	0.0
1.0							1.0
2.0							2.0
3.0							3.0

EBA Engineering Consultants Ltd. Calgary, Alberta		COMPLETION DEPTH ** m	COMPLETE 81/07/08
LOGGED BY JFR		DWG NO.	Page 1 of 1

SOUTH TARSUT BORROW AREA		ORIGINAL BOREHOLE NO. C-TAR-17		BOREHOLE No. STCS17	
DOME PETROLEUM LTD.		WATER DEPTH - 10.00m (approximately)		Project No: EBA # 101-3210	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED		ELEVATION - 10.00 (m)	
SAMPLE TYPE ☒ SHELLY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL					
DEPTH (m)	SAMPLE NO.	SOIL DESCRIPTION	LOG (mm)	USC	DEPTH (m)
0.0	17	SILT (CL) - clayey, trace to some sand, low to medium plasticity, 20mm thick layers of fine sand at surface, black	PLASTIC M.C. LIQID 30 40 50 60	CL	0.0
		END OF CLAMSHELL SAMPLE			
1.0					1.0
2.0					2.0
3.0					3.0
1.0					
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		LOGGED BY JPR		DWC NO.	
				Page 1 of 1	

SOUTH TARSUT BORROW AREA		ORIGINAL BOREHOLE NO. C-TAR-18		BOREHOLE No. STCS18	
DOME PETROLEUM LTD.		WATER DEPTH - 10.00m (approximately)		Project No: EBA # 101-3210	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED		ELEVATION - 10.00 (m)	
SAMPLE TYPE ☒ SHELLY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL					
DEPTH (m)	SAMPLE NO.	SOIL DESCRIPTION	LOG (mm)	USC	DEPTH (m)
0.0	18	GRAVEL (GP) - trace silt, up to 100mm diameter, well rounded, poorly graded	PLASTIC M.C. LIQID 30 40 50 60	GP	0.0
		END OF CLAMSHELL SAMPLE			
1.0					1.0
2.0					2.0
3.0					3.0
1.0					
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		LOGGED BY JPR		DWC NO.	
				Page 1 of 1	

SOUTH TARSUIT BORROW AREA		ORIGINAL BOREHOLE NO. C-TAR-19		BOREHOLE No. STCS19		
DOME PETROLEUM LTD.		WATER DEPTH - 10.00m (approximately)		Project No: EBA # 101-3210		
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED		ELEVATION -10.00 (m)		
SAMPLE TYPE ☐ SHIELD TUBE ☒ NO RECOVERY ☒ SPUR SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL						
DEPTH (m)	SAMPLE NO	SOIL DESCRIPTION	10000 5000 2500 1000 500 PLASTIC M.C. LIQUID 20 40 60 80	20 40 60 80 CLAY (C) A SILT (M) B SAND (S) C GRAVEL (G) D	USC	DEPTH (m)
0.0	19	SAND (SP) - gravelly, trace silt, cobbles up to 200mm diameter, gap graded			SP	0.0
		END OF CLAMSHELL SAMPLE				
						-1.0
						-2.0
						-3.0
1.0						
EBA Engineering Consultants Ltd. Calgary, Alberta		COMPLETION DEPTH ** m		COMPLETE 81/07/08		
		LOGGED BY JFR		DWC NO. Page 1 of 1		

SOUTH TARSUIT BORROW AREA		ORIGINAL BOREHOLE NO. C-TAR-2019		BOREHOLE No. STCS20		
DOME PETROLEUM LTD.		WATER DEPTH - 10.00m (approximately)		Project No: EBA # 101-3210		
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED		ELEVATION -10.00 (m)		
SAMPLE TYPE ☐ SHIELD TUBE ☒ NO RECOVERY ☒ SPUR SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL						
DEPTH (m)	SAMPLE NO	SOIL DESCRIPTION	10000 5000 2500 1000 500 PLASTIC M.C. LIQUID 20 40 60 80	20 40 60 80 CLAY (C) A SILT (M) B SAND (S) C GRAVEL (G) D	USC	DEPTH (m)
0.0	20	GRAVEL AND SAND (GP) - rounded particles up to 50mm diameter, gap graded			GP	0.0
		END OF CLAMSHELL SAMPLE				
						-1.0
						-2.0
						-3.0
1.0						
EBA Engineering Consultants Ltd. Calgary, Alberta		COMPLETION DEPTH ** m		COMPLETE 81/07/08		
		LOGGED BY JFR		DWC NO. Page 1 of 1		

BAILLIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-3		BOREHOLE No. BICS-3	
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - 24.9m		Project No: EBA # 101-3606	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION -24.90 (m)	
SAMPLE TYPE ☒ SHELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL					
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	USC	DEPTH (m)
0.0			SAND - ice scours noted on video recording CLAY - firm to stiff		0.0
			END OF CLAMSHELL SAMPLE		
					-1.0
					-2.0
					-3.0
1.0					
EBA Engineering Consultants Ltd. Calgary, Alberta			COMPLETION DEPTH ** m	COMPLETE 82/07/21	
			LOGGED BY MDW	DWG NO.	Page 1 of 1

BAILLIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-4		BOREHOLE No. BICS-4	
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - 19.8m		Project No: EBA # 101-3606	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION -19.80 (m)	
SAMPLE TYPE ☒ SHELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL					
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	USC	DEPTH (m)
0.0			GRAVEL - trace clay, 50mm maximum size		0.0
			END OF CLAMSHELL SAMPLE		
					-1.0
					-2.0
					-3.0
1.0					
EBA Engineering Consultants Ltd. Calgary, Alberta			COMPLETION DEPTH ** m	COMPLETE 82/07/21	
			LOGGED BY MDW	DWG NO.	Page 1 of 1

DEPTH (m)		SAMPLE TYPE		SAMPLE NO.		SOIL DESCRIPTION		USC		DEPTH (m)	
0.0						CLAY				0.0	
1.0						END OF CLAMSHELL SAMPLE				1.0	
2.0										2.0	
3.0										3.0	

BAILIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-8		BOREHOLE No. BICS-8		
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - 27.6m		Project Nor EBA # 101-3606		
DRILL SHIP - CANMAR SUPPLIER V		DEPTHS ARE REFERENCED TO SEASIDE.		ELEVATION - 27.40 (m)		
SAMPLE TYPE	☐ SHELBY TUBE	☒ NO RECOVERY	☒ SPLIT SPOON	☐ DISTURBED	Piston ☐	CLAMSHELL ☐
DEPTH (m) SAMPLE TYPE SAMPLE NO.	SOIL DESCRIPTION			A.O.D.S. (mm) A. 10000 50000 100000 400000 PLASTIC M.C. LIQUID —●— 30 40 60 80	USC A D.U.F. C.G.M. SALT CGM SAND CO ● GRAVEL GO ● 20 40 60 80	DEPTH (ft.)
0.0	GRAVEL — trace of clay, most particles less than 20mm size, 50mm maximum size.					0.0
	END OF CLAM SHELL SAMPLE					-1.0
						-2.0
						-3.0
1.0						

Page 1 of 1

BAILLIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-9		BOREHOLE No. BICS-9			
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - 34.7m		Project No: EBA # 101-3606			
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION -34.70 (m)			
SAMPLE TYPE ☒ SHELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL							
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	10000 20000 30000 40000 PLASTIC M.C. LIQUID 20 40 60 80	20 40 60 80 CLAY SILT SAND GRAVEL 20 40 60 80	USC	DEPTH (m)
0.0			GRAVEL - trace of clay.				0.0
			END OF CLAMSHELL SAMPLE				
							-1.0
							-2.0
							-3.0
1.0							
EBA Engineering Consultants Ltd. Calgary, Alberta			COMPLETION DEPTH ** m		COMPLETE 82/07/21		
			LOGGED BY MDW		DWG NO. Page 1 of 1		

BAILLIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-10		BOREHOLE No. BICS-10			
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - 34.7m		Project No: EBA # 101-3606			
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION -34.70 (m)			
SAMPLE TYPE ☒ SHELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL							
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	10000 20000 30000 40000 PLASTIC M.C. LIQUID 20 40 60 80	20 40 60 80 CLAY SILT SAND GRAVEL 20 40 60 80	USC	DEPTH (m)
0.0			SAND - trace of gravel, silt, and clay, well graded, maximum gravel size of 50mm				0.0
			CLAY				
			END OF CLAMSHELL SAMPLE				
							-1.0
							-2.0
							-3.0
1.0							
EBA Engineering Consultants Ltd. Calgary, Alberta			COMPLETION DEPTH ** m		COMPLETE 82/07/21		
			LOGGED BY MDW		DWG NO. Page 1 of 1		

BALLIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-11		BOREHOLE No. BICS-11	
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - 42.0m		Project No: EBA # 101-3606	
DRILL SHIP - CAMMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION -42.00 (m)	
SAMPLE TYPE ☒ SHELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	A.D.P. (mm) &			USC		DEPTH (m)
				10000	20000	30000	40000	PLASTIC	
0.0			SAND - trace of gravel, silt, and clay, well graded, maximum gravel size of 50mm						0.0
			CLAY						
			END OF CLAMSHELL SAMPLE						
									-1.0
									-2.0
									-3.0
1.0									

EBA Engineering Consultants Ltd. Calgary, Alberta		COMPLETION DEPTH ** m	COMPLETE 82/07/21
LOGGED BY MDW	DWG NO.	Page 1 of 1	

BALLIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-12		BOREHOLE No. BICS-12	
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - 36.8m		Project No: EBA # 101-3606	
DRILL SHIP - CAMMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION -36.60 (m)	
SAMPLE TYPE ☒ SHELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	A.D.P. (mm) &			USC		DEPTH (m)
				10000	20000	30000	40000	PLASTIC	
0.0			SAND - trace of silt and clay, well graded.						0.0
			CLAY						
			END OF CLAMSHELL SAMPLE						
									-1.0
									-2.0
									-3.0
1.0									

EBA Engineering Consultants Ltd. Calgary, Alberta		COMPLETION DEPTH ** m	COMPLETE 82/07/21
LOGGED BY MDW	DWG NO.	Page 1 of 1	

BAILIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-13		BOREHOLE No. BICS-13	
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - 34.7m		Project No: EBA # 101-3605	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION - 34.70 (m)	
SAMPLE TYPE ☒ SHIELD TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL					
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	USC	DEPTH (m)
0.0			SAND AND GRAVEL - sand is well graded, gravel is fine graded. CLAY		0.0
			END OF CLAMSHELL SAMPLE		
					-1.0
					-2.0
					-3.0
1.0					
EBA Engineering Consultants Ltd. Calgary, Alberta			COMPLETION DEPTH ** m COMPLETE 02/07/21 LOGGED BY MDW DMC NO. Page 1 of 1		

BAILIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-14		BOREHOLE No. BICS-14	
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - 36.5m		Project No: EBA # 101-3605	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION - 36.50 (m)	
SAMPLE TYPE ☒ SHIELD TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL					
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	USC	DEPTH (m)
0.0			SAND - trace of gravel, well graded. CLAY - firm to stiff.		0.0
			END OF CLAMSHELL SAMPLE		
					-1.0
					-2.0
					-3.0
1.0					
EBA Engineering Consultants Ltd. Calgary, Alberta			COMPLETION DEPTH ** m COMPLETE 02/07/21 LOGGED BY MDW DMC NO. Page 1 of 1		

BAILIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-15		BOREHOLE No. BICS-15			
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - 34.7m		Project No: EBA / 101-3606			
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION -34.70 (m)			
SAMPLE TYPE ☒ SHIELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL							
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	PLASTIC	LIQUID	USC	DEPTH (m)
0.0			SAND - trace of gravel, well graded. CLAY - firm to stiff.				0.0
			END OF CLAMSHELL SAMPLE				
							-1.0
							-2.0
							-3.0
1.0							
EBA Engineering Consultants Ltd. Calgary, Alberta			COMPLETION DEPTH ** m		COMPLETE 82/07/21		
			LOGGED BY MDW		DWC NO. Page 1 of 1		

BAILIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-16		BOREHOLE No. BICS-16			
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - 18.2m		Project No: EBA / 101-3606			
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION -18.20 (m)			
SAMPLE TYPE ☒ SHIELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL							
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	PLASTIC	LIQUID	USC	DEPTH (m)
0.0			CLAY - trace of gravel.				0.0
			END OF CLAMSHELL SAMPLE				
							-1.0
							-2.0
							-3.0
1.0							
EBA Engineering Consultants Ltd. Calgary, Alberta			COMPLETION DEPTH ** m		COMPLETE 82/07/21		
			LOGGED BY MDW		DWC NO. Page 1 of 1		

BAILIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-17		BOREHOLE No. BICS-17	
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - 20.0m		Project No: EBA / 101-3605	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION -20.00 (m)	
SAMPLE TYPE ☒ SHIELD TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAM SHELL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	A.D.S. (mm) A			USC			DEPTH (m)
				10000	20000	30000	40000	50000	60000	
0.0			CLAY							0.0
			END OF CLAM SHELL SAMPLE							
										1.0
										2.0
										3.0
1.0										

EBA Engineering Consultants Ltd. Calgary, Alberta		COMPLETION DEPTH ** m	COMPLETE 82/07/21
LOGGED BY MDW		DWG NO.	Page 1 of 1

BAILIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-18		BOREHOLE No. BICS-18	
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - 13.7m		Project No: EBA / 101-3605	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION -13.70 (m)	
SAMPLE TYPE ☒ SHIELD TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAM SHELL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	A.D.S. (mm) A			USC			DEPTH (m)
				10000	20000	30000	40000	50000	60000	
0.0			SAND - trace gravel, well graded CLAY - firm to stiff							0.0
			END OF CLAM SHELL SAMPLE							
										1.0
										2.0
										3.0
1.0										

EBA Engineering Consultants Ltd. Calgary, Alberta		COMPLETION DEPTH ** m	COMPLETE 82/07/21
LOGGED BY MDW		DWG NO.	Page 1 of 1

BAILIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-19		BOREHOLE No. BICS-19	
CANADIAN MARINE DRILLING LTD.		WATER DEPTH -		Project No: EBA # 101-3606	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION 0.00 (m)	
SAMPLE TYPE		☒ SHELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL			
DEPTH (m)	SAMPLE TYPE	SAMPLE NO.	SOIL DESCRIPTION	USC	DEPTH (m)
0.0			SMALL BATHYMETRIC FEATURE NOT FOUND		0.0
1.0					1.0
2.0					2.0
3.0					3.0
EBA Engineering Consultants Ltd. Calgary, Alberta			COMPLETION DEPTH ** m	COMPLETE 82/07/21	
LOGGED BY MDW			DWG NO.	Page 1 of 1	

BAILIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-20		BOREHOLE No. BICS-20	
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - 21.9m		Project No: EBA # 101-3606	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION -21.90 (m)	
SAMPLE TYPE		☒ SHELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL			
DEPTH (m)	SAMPLE TYPE	SAMPLE NO.	SOIL DESCRIPTION	USC	DEPTH (m)
0.0			CLAY		0.0
1.0			END OF CLAMSHELL SAMPLE		1.0
2.0					2.0
3.0					3.0
EBA Engineering Consultants Ltd. Calgary, Alberta			COMPLETION DEPTH ** m	COMPLETE 82/07/21	
LOGGED BY MDW			DWG NO.	Page 1 of 1	

BALLIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-21		BOREHOLE No. BICS-21	
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - unknown		Project No: EBA # 101-3606	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION 0.00 (m)	
SAMPLE TYPE ☐ SHELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	A 500 (mm) A			USC			DEPTH (m)
				10000	20000	30000	20	40	60	
0.0			CLAY							0.0
			END OF CLAMSHELL SAMPLE							
										-1.0
										-2.0
										-3.0
1.0										

EBA Engineering Consultants Ltd. Calgary, Alberta		COMPLETION DEPTH ** m	COMPLETE 02/07/21
LOGGED BY MDW	DWG NO.	Page 1 of 1	

BALLIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-22		BOREHOLE No. BICS-22	
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - 7.3m		Project No: EBA # 101-3606	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION -7.30 (m)	
SAMPLE TYPE ☐ SHELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	A 500 (mm) A			USC			DEPTH (m)
				10000	20000	30000	20	40	60	
0.0			SAND - trace gravel, well graded, gravel of maximum size 12 mm							0.0
			END OF CLAMSHELL SAMPLE							
										-1.0
										-2.0
										-3.0
1.0										

EBA Engineering Consultants Ltd. Calgary, Alberta		COMPLETION DEPTH ** m	COMPLETE 02/07/21
LOGGED BY MDW	DWG NO.	Page 1 of 1	

BALLIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. CANMAR SCOOP 1		BOREHOLE No. BIDS-1		
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - unknown		Project No. EBA # 101-3606		
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION 0.00 (m)		
SAMPLE TYPE ☐ SHIELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ DREDGE SAMPLE ☐ GRAVITY CORE						
DEPTH (m)	SAMPLE TYPE	SAMPLE NO.	SOIL DESCRIPTION	A D50 (mm) A 2000 4500 6500 8000 PLASTIC N.C. LIQUID 20 40 60 80 20 40 60 80 20 40 60 80	USC	DEPTH (m)
0.0			CLAY			0.0
			END OF DREDGE SAMPLE			
						-1.0
						-2.0
						-3.0
1.0						
EBA Engineering Consultants Ltd. Calgary, Alberta			COMPLETION DEPTH ** m		COMPLETE 02/07/21	
			LOGGED BY MDW		DWG NO. Page 1 of 1	

BALLIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. CANMAR SCOOP 2		BOREHOLE No. BIDS-2		
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - unknown		Project No. EBA # 101-3606		
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION 0.00 (m)		
SAMPLE TYPE ☐ SHIELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ DREDGE SAMPLE ☐ GRAVITY CORE						
DEPTH (m)	SAMPLE TYPE	SAMPLE NO.	SOIL DESCRIPTION	A D50 (mm) A 2000 4500 6500 8000 PLASTIC N.C. LIQUID 20 40 60 80 20 40 60 80 20 40 60 80	USC	DEPTH (m)
0.0			SAND - some gravel up to 20 mm diameter, trace of silt and clay, well graded			0.0
			END OF DREDGE SAMPLE			
						-1.0
						-2.0
						-3.0
1.0						
EBA Engineering Consultants Ltd. Calgary, Alberta			COMPLETION DEPTH ** m		COMPLETE 02/07/21	
			LOGGED BY MDW		DWG NO. Page 1 of 1	

BALLIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. CANMAR SCOOP 3		BOREHOLE No. BIDS-3	
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - unknown		Project No: EBA # 101-3605	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION 0.00 (m)	
SAMPLE TYPE ☐ SHIELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED		☐ DREDGE SAMPLE ☐ GRAVITY CORE			

DEPTH (m)	SAMPLE TYPE	SAMPLE NO.	SOIL DESCRIPTION	A BCD (mm) A			FINES (%)			USC	DEPTH (m)
				2000	5000	8000	20	40	60		
0.0			SAND - well graded CLAY								0.0
			END OF DREDGE SAMPLE								
											-1.0
											-2.0
											-3.0
1.0											

EBA Engineering Consultants Ltd. Calgary, Alberta		COMPLETION DEPTH •• m	COMPLETE 82/07/21
LOGGED BY MDW	DWG NO.	Page 1 of 1	

BALLIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-1		BOREHOLE No. BICS-1	
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - 38.4m		Project No: EBA # 101-3605	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED		ELEVATION -38.40 (m)	
SAMPLE TYPE ☒ SHIELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON CORE ☐ CLAMSHELL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO.	SOIL DESCRIPTION	A.D.P. (mm) A				USC	DEPTH (m)
				10000	20000	30000	40000		
0.0			CLAY						0.0
			END OF CLAMSHELL SAMPLE						
									-1.0
									-2.0
									-3.0
1.0									

EBA Engineering Consultants Ltd. Calgary, Alberta		COMPLETION DEPTH ** m	COMPLETE 82/07/21
LOGGED BY MDV	DWG NO.	Page 1 of 1	

BALLIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-2		BOREHOLE No. BICS-2	
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - 25.0m		Project No: EBA # 101-3605	
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED		ELEVATION -25.90 (m)	
SAMPLE TYPE ☒ SHIELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL					

DEPTH (m)	SAMPLE TYPE	SAMPLE NO.	SOIL DESCRIPTION	A.D.P. (mm) A				USC	DEPTH (m)
				10000	20000	30000	40000		
0.0			SAND - trace of gravel CLAY - firm to stiff						0.0
			END OF CLAMSHELL SAMPLE						
									-1.0
									-2.0
									-3.0
1.0									

EBA Engineering Consultants Ltd. Calgary, Alberta		COMPLETION DEPTH ** m	COMPLETE 82/07/21
LOGGED BY MDV	DWG NO.	Page 1 of 1	

BAILLIE ISLAND GRAVEL SEARCH			ORIGINAL BOREHOLE NO. GS-3		BOREHOLE No. BICS-3		
CANADIAN MARINE DRILLING LTD.			WATER DEPTH - 24.9m		Project No: EBA # 101-3606		
DRILL SHIP - CANMAR, SUPPLIER V			DEPTHS ARE REFERENCED TO SEABED.		ELEVATION - 24.90 (m)		
SAMPLE TYPE			SHELBY TUBE		NO RECOVERY		
			SPLIT SPOON		DISTURBED		
			PISTON		CLAMSHELL		
DEPTH (m)	SAMPLE TYPE	SAMPLE NO.	SOIL DESCRIPTION			USC	DEPTH (m)
			10000 20000 30000 40000 PLASTIC M.C. LIQUID 20 40 60 80			20 40 60 80 20 40 60 80 20 40 60 80 20 40 60 80	
0.0			SAND - ice scours noted on video recording CLAY - firm to stiff END OF CLAMSHELL SAMPLE				0.0
1.0							1.0
2.0							2.0
3.0							3.0

[illegible]

BAILLIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-5		BOREHOLE No. BICS-5			
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - 18.6m		Project No: EBA # 101-3606			
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION -18.60 (m)			
SAMPLE TYPE ☒ SHIELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL							
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	A.D.S. (mm) Δ 10000 20000 30000 40000 PLASTIC M.C. LIQUID 20 40 60 80	Δ CLAY (%) Δ 20 40 60 80 ■ SILT (%) ■ 20 40 60 80 ◆ SAND (%) ◆ 20 40 60 80 ● GRAVEL (%) ● 20 40 60 80	USC	DEPTH (m)
0.0			SAND - trace of gravel, coarse grained, gravel up to 12mm maximum size				0.0
			CLAY				-1.0
			END OF CLAMSHELL SAMPLE				-2.0
							-3.0
1.0			EBA Engineering Consultants Ltd. Calgary, Alberta		COMPLETION DEPTH 0.3 m	COMPLETE 82/07/21	
			LOGGED BY MDW		DWG NO.	Page 1 of 1	

BAILLIE ISLAND GRAVEL SEARCH		ORIGINAL BOREHOLE NO. GS-6		BOREHOLE No. BICS-6			
CANADIAN MARINE DRILLING LTD.		WATER DEPTH - 21.3m		Project No: EBA # 101-3606			
DRILL SHIP - CANMAR, SUPPLIER V		DEPTHS ARE REFERENCED TO SEABED.		ELEVATION -21.30 (m)			
SAMPLE TYPE ☒ SHIELBY TUBE ☒ NO RECOVERY ☒ SPLIT SPOON ☐ DISTURBED ☐ PISTON ☐ CLAMSHELL							
DEPTH (m)	SAMPLE TYPE	SAMPLE NO	SOIL DESCRIPTION	A.D.S. (mm) Δ 10000 20000 30000 40000 PLASTIC M.C. LIQUID 20 40 60 80	Δ CLAY (%) Δ 20 40 60 80 ■ SILT (%) ■ 20 40 60 80 ◆ SAND (%) ◆ 20 40 60 80 ● GRAVEL (%) ● 20 40 60 80	USC	DEPTH (m)
0.0			SAND - some gravel, coarse grained, gravel up to 55mm maximum size.				0.0
			END OF CLAMSHELL SAMPLE				-1.0
							-2.0
							-3.0
1.0			EBA Engineering Consultants Ltd. Calgary, Alberta		COMPLETION DEPTH 0.0 m	COMPLETE 82/07/21	
			LOGGED BY MDW		DWG NO.	Page 1 of 1	