

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 37-II 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 11 February 1992 GEOLOGIST SMA ELEVATION 192.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)							
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD											
											25	50	75	100	25	50	75	100			
0.4		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, locally laminated with dolostone. -Dolostone bed from about 0.4 to 1.2 m, moderate shale content locally. -Dolostone content increasing below about 3.8 m.																			
1.2																					
2																					
3																					
4.9		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers and calcite nodules, gypsum infilled seams locally, trace fossils.																			
6.1																					
6.3		SHALE Dark brownish grey, aphanitic to very fine crystalline, thick bedded shale interlaminated with dolostone. Borehole terminated at 6.30 m in shale. NOTE: Borehole drilled using an Air Track Percussion Drill. Stratigraphy inferred from adjacent borehole 37-I.																			

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 38-I 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 5 February 1992 GEOLOGIST TLC ELEVATION 192.4 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE				RECOVERY (%)				RQD (%)								
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
0.8		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, occasionally interlaminated to interbedded with dolostone, moderate dolostone content and fossiliferous locally.		1	HQ			92	36											
1.4				2	HQ			100	94											
2		-Dolostone bed from about 0.8 to 1.4 m.		3	HQ			100	90											
3				4	HQ			100	100											
4		-Dolostone content increasing below about 4.7 m.		5	HQ			100	93											
5.0		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers, some small calcite infilled vugs, minor occurrences of sphalerite mineralization.		6	HQ			100	79											
6.0				7	HQ			100	99											
6.8		SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, occasionally interlaminated with dolostone, bioturbation at upper contact.		8	HQ			100	99											
7																				
8																				
9																				
10		-Becoming massive bedded below about 9.4 m.																		
11																				
12.2		Borehole terminated at 12.21 m in dolostone.																		



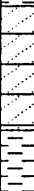

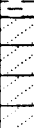

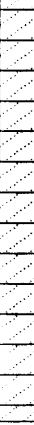
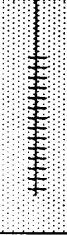
BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 38-II 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 10 February 1992 GEOLOGIST SMA ELEVATION 192.4 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY				RQD								
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	RECOVERY (%)				RQD (%)							
											25	50	75	100	25	50	75	100				
0.8		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, occasionally interlaminated to interbedded with dolostone, moderate dolostone content and fossiliferous locally. -Dolostone bed from about 0.8 to 1.4 m.																				
1.4																						
2																						
3																						
4																						
5.0		-Dolostone content increasing below about 4.7 m.																				
6.0		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers, some small calcite infilled vugs, minor occurrences of sphalerite mineralization.																				
6.1		SHALE Borehole terminated at 6.10 m in shale. NOTE: Borehole drilled using an Air Track Percussion Drill. Stratigraphy inferred from adjacent borehole 38-I.																				





BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 38-III 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 11 February 1992 GEOLOGIST SMA ELEVATION 192.5 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE				RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
0.8 1 1.4 2 3 3.6		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, occasionally inter laminated to interbedded with dolostone, moderate dolostone content and fossiliferous locally. -Dolostone bed from about 0.8 to 1.4 m.																
		Borehole terminated at 3.55 m in shale. NOTE: Borehole drilled using an Air Track Percussion Drill. Stratigraphy inferred from adjacent borehole 38-I.																

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 39-1 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 6 February 1992 GEOLOGIST TLC ELEVATION 191.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE				RECOVERY (%)				RQD (%)										
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD												
											25	50	75	100	25	50	75	100				
0.8		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, occasional thin dolostone beds accompanied by bioturbation, trace fossils. -Dolostone bed from about 0.8 to 1.4 m.		1	HQ			100	46													
1.4				2	HQ			100	98													
2				3	HQ			99	91													
3				4	HQ			100	97													
4.7		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers, locally interlaminated with shale. -Occasional gypsum infilled vugs to about 6 m.		5	HQ			99	89													
6.0				6	HQ			100	100													
6.8		SHALE Dark brownish grey, aphanitic to very fine crystalline, medium bedded shale, occasional dolostone laminae, bioturbation at upper contact.		7	HQ			100	100													
7				8	HQ			100	100													
8		Borehole terminated at 12.33 m in dolostone.		9																		
9				10																		
10				11																		
11				12																		
12.3																						

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 39-II 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 11 February 1992 GEOLOGIST SMA ELEVATION 191.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE				RECOVERY (%)				RQD (%)								
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
0.8 1 1.4 2 3 4 4.7		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, occasional thin dolostone beds accompanied by bioturbation, trace fossils. -Dolostone bed from about 0.8 to 1.4 m.																		
5 6.0 6.1		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers. Shale below about 6.0 m.																		
		Borehole terminated at 6.10 m in shale. NOTE: Borehole drilled using an Air Track Percussion Drill. Stratigraphy inferred from adjacent borehole 39-I.																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 40-I	1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 10 February 1992 GEOLOGIST TLC ELEVATION 193.6 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
0.9		ROAD BASE Brown gravelly sand.																		
1		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, occasionally interlaminated to interbedded with dolostone, bioturbation associated with dolostone beds, minor dolomitic content, trace fossils.																		
1.7				1		HQ				98	14									
2.2				2		HQ				100	88									
3		-Dolostone bed from about 1.7 to 2.3 m.		3		HQ				100	97									
4				4		HQ				100	93									
5				5		HQ				100	100									
6.0		-Dolomitic content increasing below about 5.7 m.		6		HQ				100	89									
7.2		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers, some gypsum infilled vugs, minor occurrences of galena and sphalerite mineralization.		7		HQ				98	92									
8.0		SHALE Dark brownish grey, aphanitic to very fine crystalline, medium bedded shale interlaminated with dolostone, bioturbation at upper contact.		8		HQ				100	100									
9		-Becoming massive bedded below about 9.4 m.																		
10																				
11																				
12.2		Borehole terminated at 12.20 m in dolostone.																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 40-II 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 11 February 1992 GEOLOGIST SMA ELEVATION 193.6 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE				RECOVERY (%)				RQD (%)								
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
0.9		ROAD BASE Brown gravelly sand.																		
1.7		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, occasionally inter laminated to interbedded with dolostone, bioturbation associated with dolostone beds, minor dolomitic content, trace fossils.																		
2.2		-Dolostone bed from about 1.7 to 2.3 m.																		
3.0																				
4.0																				
5.0																				
6.0		-Dolomitic content increasing below about 5.7 m.																		
7.2		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers, some gypsum infilled vugs.																		
		Borehole terminated at 7.19 m in dolostone.																		
		NOTE: Borehole drilled using an Air Track Percussion Drill. Stratigraphy inferred from adjacent borehole 40-I.																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 40-III 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 11 February 1992 GEOLOGIST SMA ELEVATION 193.6 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE				RECOVERY				RQD								
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	%									
											25	50	75	100	25	50	75	100		
0.9		ROAD BASE Brown gravelly sand.																		
1.7		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, occasionally interlaminated to interbedded with dolostone, bioturbation associated with dolostone beds, minor dolomitic content, trace fossils.																		
2.2		-Dolostone bed from about 1.7 to 2.3 m.																		
3																				
4																				
5																				
5.6		Borehole terminated at 5.60 m in shale.																		
		NOTE: Borehole drilled using an Air Track Precussion Drill. Stratigraphy inferred from adjacent borehole 40-I.																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 41-I 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 14 February 1992 GEOLOGIST TLC ELEVATION 191.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE				RECOVERY (%)				RQD (%)							
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											25	50	75	100	25	50	75	100	
0.4		TOPSOIL Dark brown silty topsoil, trace clay, rootlets, moist, compact.		1	SS	14		52											
1		CLAYEY SILT Brown clayey silt, trace fine sand, laminated, DTPL to APL, stiff to very stiff. Reworked from about 0.4 to 1.2 m. -Rust staining along laminae planes below about 1.9 m.		2	SS	16		74											
2				3	SS	9		100											
2.7				4	SS	21		100											
3		SANDY SILT TILL Brown fine sandy silt, some clay and fine subangular gravel to coarse sand, moist becoming saturated below about 3.1 m, compact to dense. -Brownish grey with rust stained fractures from about 3.2 to 3.3 m. -Grey below about 3.3 m.		5	SS	28		72											
4				6	SS	42		72											
5				7	SS	44		59											
5.5		-Till mixed with weathered dolostone below about 5.3 m.		8	SS	50/		100											
6		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, shale stringers and calcite infilled vugs locally, numerous occurrences of sphalerite mineralization.		1	HQ	0.07m		100	62										
7				2	HQ			100	80										
8				3	HQ			100	99										
9				4	HQ			100	94										
10		-Minor occurrences of chert nodules with sphalerite mineralization below about 9.5 m.		5	HQ			100	93										
10.4		ANCASTER CHERT BEDS Light brownish grey, very fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and layers, minor occurrences of sphalerite mineralization associated with the chert. -Large fracture encountered at around 11.8 m, approximately 4 cm thick.																	
11																			
12																			
12.5		Borehole terminated at 12.48 m in a siliceous dolostone with chert.																	

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 41-II 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 15 February 1992 GEOLOGIST SMA ELEVATION 191.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE				RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
0.4		TOPSOIL Dark brown silty topsoil, trace clay, rootlets, moist, compact.																
1		CLAYEY SILT Brown clayey silt, trace fine sand, laminated, DTPL to APL, stiff to very stiff. Reworked from about 0.4 to 1.2 m. -Rust staining along laminae planes below about 1.9 m.																
2.7		SANDY SILT TILL Brown fine sandy silt, some clay and fine subangular gravel to coarse sand, moist becoming saturated below about 3.1 m, compact to dense. -Brownish grey with rust stained fractures from about 3.2 to 3.3 m. -Grey below about 3.3 m.																
5.5		-Till mixed withh weathered dolostone below about 5.3 m.																
6		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, shale stringers and calcite infilled vugs locally, numerous occurrences of sphalerite mineralization.																
7.8		Borehole terminated at 7.77 m in dolostone. NOTE: Borehole augered directly to 5.56 m, without sampling. Stratigraphy inferred from adjacent borehole 41-I.																

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 41-III 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 15 February 1992 GEOLOGIST SMA ELEVATION 191.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE							RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N	VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
0.4		TOPSOIL Dark brown silty topsoil, trace clay, rootlets, moist, compact.																	
1		CLAYEY SILT Brown clayey silt, trace fine sand, laminated, DTPL to APL, stiff to very stiff. Reworked from about 0.4 to 1.2 m. -Rust staining along laminae planes below about 1.9 m.																	
2.7																			
3		SANDY SILT TILL Brown fine sandy silt, some clay and fine subangular gravel to coarse sand, moist becoming saturated below about 3.1 m, compact to dense. -Brownish grey with rust stained fractures from about 3.2 to 3.3 m. -Grey below about 3.3 m. -Till mixed with weathered dolostone below about 5.3 m.																	
4																			
5																			
5.6		Borehole terminated at 5.56 m in sandy silt till.																	
		NOTE: Borehole augered directly to 5.56 m, without sampling. Stratigraphy inferred from adjacent borehole 41-I.																	

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 42-I 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 11 February 1992 GEOLOGIST TLC ELEVATION 193.6 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE				RECOVERY (%)				RQD (%)								
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
1.2		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, occasional dolostone beds and laminae, trace fossils.		1		HQ				100	11									
1.6		-Dolostone bed from about 1.2 to 1.7 m.																		
2				2		HQ				100	82									
3				3		HQ				100	91									
4				4		HQ				100	100									
5.4		-Increasing dolostone content below about 4.8 m.																		
6		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional vertical to subvertical fractures, some calcite infilled vugs, minor occurrences of sphalerite and galena mineralization, trace fossils.		5		HQ				100	72									
7.2				6		HQ				100	92									
8		SHALE Dark brownish grey, aphanitic to very fine crystalline, medium bedded shale, occasional dolostone laminae, bioturbation at upper contact.		7		HQ				100	97									
9				8		HQ				94	94									
10																				
11																				
12																				
12.5		Borehole terminated at 12.47 m in dolostone.																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 42-III 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 12 February 1992 GEOLOGIST SMA ELEVATION 193.6 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
1.2	1	VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, occasional dolostone beds and laminae, trace fossils.																
1.6		-Dolostone bed from about 1.2 to 1.7 m.																
2																		
3																		
4																		
4.8		Borehole terminated at 4.75 m in shale.																
		NOTE: Borehole drilled using an Air Track Percussion Drill. Stratigraphy inferred from adjacent borehole 42-I.																

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 43-1 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 12 February 1992 GEOLOGIST TLC ELEVATION 192.4 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)					
				NUMBER	INTERVAL	TYPE	N	VALUE	% WATER	% REC	% RQD								
												25	50	75	100	25	50	75	100
0.5		TOPSOIL Dark brown to brown fine sandy silt, rootlets, some fine subangular gravel and clay, moist, compact.		1		SS	14			65									
1.3		CLAYEY SILT Brown clayey silt, reworked, trace fine sand, APL, stiff.		2		SS	10			57									
2.0		SANDY SILT Brown, slightly mottled light grey, fine sandy silt, trace clay, slightly laminated, moist, compact.		3		SS	21			65									
3.0		SANDY SILT TILL Brown, slightly mottled light grey, fine sandy silt, trace clay, slightly laminated, moist, compact.		4		SS	50			74									
3.5		SANDY SILT TILL Brown fine sandy silt, trace to some fine subangular gravel to coarse sand, horizontal to vertical fracturing with black oxidation, occasional dolostone fragments, moist, very dense.		5		SS	82			80									
3.6		-Till with weathered dolostone below about 3.4 m.		1		HQ				99	45								
4.0		GOAT ISLAND DOLOSTONE		2		HQ				100	81								
5.0		SHALE Dark brownish grey, aphanitic to very fine crystalline, thin bedded shale, some horizontal and vertical fracturing, locally interlaminated to thinly interbedded with dolostone.		3		HQ				100	82								
7.0		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers, minor occurrences of sphalerite mineralization and small calcite infilled vugs locally.		4		HQ				100	96								
8.0		-Locally interlaminated with shale below about 6.3 m.		5		HQ				90	83								
9.0		-3 cm cavity lined with well formed calcite crystals at about 6.6 m.		6		HQ				100	96								
10.0		-1 cm cavity infilled with calcite crystallization at about 10.6 m.		7		HQ				100	90								
10.8		ANCASTER CHERT BEDS Light brownish grey, very fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and layers, minor occurrences of sphalerite and galena mineralization usually associated with the chert, some fossils.																	
12.0		-Large fracture encountered at about 12.3 m.																	
14.0		Borehole terminated at 14.00 m in siliceous dolostone with chert.																	







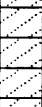

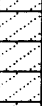





BOREHOLE LOG	PROJECT: 20-654	BOREHOLE: 43-II 1 of 1
Further Monitor Installations Taro East and West landfills FOR: PSC	DATE: 11 July 2000 GEOLOGIST MEW ELEVATION 192.1 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
0.5		TOPSOIL Dark brown to brown fine sandy silt, rootlets, some fine subangular gravel and clay, moist, compact																
1.3	1	CLAYEY SILT Brown clayey silt, reworked, trace fine sand, APL, stiff																
2.0	2	SANDY SILT Brown, slightly mottled light grey, fine sandy silt, trace clay, slightly laminated, moist, compact.																
3.3	3	SANDY SILT TILL Brown fine sandy silt, trace to some subangular gravel to coarse sand, horizontal to vertical fracturing with black oxidation, occasional dolostone fragments, moist, very dense.																
3.7	4	GOAT ISLAND DOLOSTONE Medium grey, fine crystalline thin-bedded dolostone with high shale content, localised vugs.																
4.5	5	SHALE Dark grey, aphanetic to very fine crystalline, thinly bedded shale, bioturbation observed at upper contact.																
6	6	GOAT ISLAND DOLOSTONE Medium grey, fine crystalline thin-bedded dolostone, localised vugs present.																
7	7	-Becoming blue-grey and thinly interlaminated with shale below about 5.4 m.																
8	8																	
9	9																	
10	10																	
11	11																	
11.5		Borehole terminated at 11.48 m in Dolostone, overburden stratigraphy inferred from adjacent Borehole 43-I. Monitor replaces 5-I, which was decommissioned.																

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 44-I 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 18 February 1992 GEOLOGIST SMA ELEVATION 188.1 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY (%)			RQD (%)						
				NUMBER	INTERVAL TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100	
1.2		CLAYEY SILT Medium brown clayey silt, orange and black mottling, rootlets, APL, firm to stiff.		1	SS	12			50									
2		SANDY SILT TILL Light to medium brown sandy silt, trace clay, oxidized fractures, saturated, compact.		2	SS	6			50									
2.8				3	SS	19			83									
3		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers.		4	SS	15			100									
4				1	HQ				92	52								
5				2	HQ				100	99								
6				3	HQ				92	83								
6.7				4	HQ				100	99								
7		ANCASTER CHERT BEDS Light brownish grey, very fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and layers.			HQ				5	100	86							
8					HQ				6	100	92							
9		-Large fracture encountered at about 8.9 m.																
9.4		Borehole terminated at 9.35 m in siliceous dolostone with chert.																

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 44-II 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 18 February 1992 GEOLOGIST SMA ELEVATION 188.1 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100	
1.2		CLAYEY SILT Medium brown clayey silt, orange and black mottling, rootlets, APL, firm to stiff.																	
2		SANDY SILT TILL Light to medium brown sandy silt, trace clay, oxidized fractures, saturated, compact.																	
2.8		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers.																	
3																			
4																			
5																			
6.2																			
		Borehole terminated at 6.10 m in dolostone. NOTE: Drilled directly to 6.20 m, stratigraphy inferred from adjacent borehole 44-I.																	

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 45-I	1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 20 May 1992 GEOLOGIST SMA ELEVATION 188.5 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)			RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100	
0.5		TOPSOIL Brown fine clayey silt with some sand, and trace gravel, rust staining, rootlets throughout, DTPL, firm to stiff.		1		SS	8				60								
1		SILTY SAND TILL Brown fine to medium sand with some silt and trace gravel and rootlets, moist, compact to dense.		2		SS	23				80								
2				3		SS	31				80								
2.4				4		SS	32				100	0							
3		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers, locally vuggy with some vugs infilled with calcite.		1		HQ					88								
4				2		HQ					100	63							
5				3		HQ					100	75							
6				4		HQ					100	53							
6.3		ANCASTER CHERT BEDS Light brownish grey, very fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and layers, minor occurrences of shale stringers and vugs.		5		HQ					100	73							
7				6		HQ					100	81							
8																			
9																			
10																			
10.6																			
10.9		GASPORT DOLOSTONE Medium to dark grey, coarse crystalline, medium bedded dolostone, porous. Borehole terminated at 10.90 m in dolostone.																	

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 45-II 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 20 May 1992 GEOLOGIST SMA ELEVATION 188.5 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N	VALUE	% WATER	% REC	% RQD									
												25	50	75	100	25	50	75	100	
0.5		TOPSOIL Brown fine clayey silt with some sand, and trace gravel, rust staining, rootlets throughout, DTPL, firm to stiff.																		
1		SILTY SAND TILL Brown fine to medium sand with some silt and trace gravel and rootlets, moist, compact to dense.																		
2.4		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers, locally vuggy with some vugs infilled with calcite.																		
3																				
4																				
5																				
6.3																				
7.1		ANCASTER CHERT BED Light brownish grey, very fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and layers, minor occurrences of shale stringers and vugs. Borehole terminated at 7.10 m in siliceous dolostone with chert. NOTE: Borehole drilled directly to 7.10 m, stratigraphy inferred from adjacent borehole 45-I																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 46-I 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 21 May 1992 GEOLOGIST SMA ELEVATION 190.6 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											25	50	75	100	25	50	75	100	
0.8		TOPSOIL Dark brown fine sandy silt to silty fine sand, some clay and trace gravel, rootlets, moist, loose.		1		SS	8			50									
1		CLAYEY SILT Dark brown clayey silt with trace coarse sand, some rootlets, DTPL, firm.		2		SS	23			75									
1.5				3		SS	31			100									
2		SILTY SAND TILL Brown silty sand with grey mottling, moist, dense. -mixed with weathered dolostone below 1.7 m.		4		SS	32			100	18								
2.4				1		HQ				90									
2.8				2		HQ				100	40								
3.3		GOAT ISLAND DOLOSTONE SHALE Dark brownish grey, aphanitic to very fine crystalline, thin bedded shale, locally interlaminated to interbedded with dolostone, trace fossils.		3		HQ				100	80								
4				4		HQ				100	100								
5		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers and vugs infilled with calcite.		5		HQ				100	100								
6				6		HQ				100	83								
7		-chert nodules below about 7.0 m.		7		HQ				100	90								
8				8		HQ				100	94								
9				9		HQ				100	100								
10.3		ANCASTER CHERT BEDS Light brownish grey, very fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and beds, minor occurrences of shale stringers.		7		HQ				100	90								
11				8		HQ				100	94								
12				9		HQ				100	100								
13																			
14																			

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 46-I 2 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 21 May 1992 GEOLOGIST SMA ELEVATION 190.6 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											25	50	75	100	25	50	75	100	
15.4		ANCASTER CHERT BEDS (continued)																	
16.0		GASPORT DOLOSTONE Medium blue grey, coarse crystalline, medium bedded dolostone. Borehole terminated at 15.95 m. in dolostone.																	

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 46-II 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 24 May 1992 GEOLOGIST SMA ELEVATION 190.6 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
0.8		TOPSOIL Dark brown fine sandy silt to silty fine sand, some clay and trace gravel, rootlets, moist, loose.																		
1.5		CLAYEY SILT Dark brown clayey silt with trace coarse sand, some rootlets, DTPL, firm.																		
2.4		SILTY SAND TILL Brown silty sand with grey mottling, moist, dense. -mixed with weathered dolostone below 1.7 m.																		
3.3		GOAT ISLAND DOLOSTONE SHALE Dark brownish grey, aphanitic to very fine crystalline, thin bedded shale, locally interlaminated to interbedded with dolostone, trace fossils.																		
5.0		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, occasional shale stringers and vugs infilled with calcite.																		
6.4		Borehole terminated at 6.35 m in dolostone.																		
		NOTE: Borehole drilled directly to 6.35 m. Stratigraphy inferred from adjacent borehole 46-1.																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 47-I 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 20 October 1992 GEOLOGIST PW ELEVATION 201.7 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	Z VALUE	WATER %	REC %	RQD %	25	50	75	100	25	50	75	100
0.6		TOPSOIL Dark brown mottled rust brown to reddish brown clayey silt with gravel, some rootlets, moist, compact.		1		SS	17	22	35									
1		FILL Dark brown, mottled, clayey silt, some gravel, DTPL, firm to stiff.		2		SS	14	17	40									
2				3		SS	24	19	35									
3				4		SS	17	15	30									
4				5		SS	11	22	30									
4.5				6		SS	10	21	15									
5		CLAYEY SILT Dark brown mottled rust brown, reddish brown and grey, clayey silt, trace gravel, DTPL, firm.		7		SS	9	8	20									
6				8		SS	13	24	30									
6.3				9		SS	26/	4	14									
7		ERAMOSIA DOLOSTONE Brownish grey to grey, fine crystalline, thin bedded dolostone, occasional vertical fractures, moderate shale content, locally weathered.		1	HQ	0.10m			100	17								
8				2	HQ				99	66								
8.4																		
9		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to locally interbedded with dolostone, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact.		3	HQ				100	66								
9.4																		
10.3				4	HQ				100	82								
11		-Grey dolostone bed from about 9.4 to 10.3 m, numerous clay seams.																
12				5	HQ				100	85								
13																		
13.9																		
14		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, trace fossils.		5	HQ				99	73								
15.0																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 47-II 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 21 October 1992 GEOLOGIST PW ELEVATION 201.9 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
0.6		TOPSOIL Dark brown mottled rust brown to reddish brown clayey silt with gravel, some rootlets, moist, compact.																
1		FILL Dark brown, mottled, clayey silt, some gravel, DTPL, firm to stiff.																
2																		
3																		
4																		
4.5																		
5		CLAYEY SILT Dark brown mottled rust brown, reddish brown and grey, clayey silt, trace gravel, DTPL, firm.																
6																		
6.8																		
7		ERAMOSIA DOLOSTONE Brownish grey to grey, fine crystalline, thin bedded dolostone, occasional vertical fractures, moderate shale content, locally weathered.																
8																		
8.4																		
9		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to locally interbedded with dolostone, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact.																
9.4																		
10.3																		
11		-Grey dolostone bed from about 9.4 to 10.3 m, numerous clay seams.																
12																		
13																		
13.9																		
14		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, trace fossils.																
15.0																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 47-III 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 22 October 1992 GEOLOGIST PW ELEVATION 201.7 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
0.6		TOPSOIL Dark brown mottled rust brown to reddish brown clayey silt with gravel, some rootlets, moist, compact.																		
1		FILL Dark brown, mottled, clayey silt, some gravel, DTPL, firm to stiff.																		
2																				
3																				
4																				
4.5																				
5		CLAYEY SILT Dark brown mottled rust brown, reddish brown and grey, clayey silt, trace gravel, DTPL, firm.																		
6																				
7																				
7.3																				
8		ERAMOSA DOLOSTONE Brownish grey to grey, fine crystalline, thin bedded dolostone, occasional vertical fractures, moderate shale content, locally weathered.																		
8.4																				
9		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to locally interbedded with dolostone, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact.																		
9.4																				
10.3		-Grey dolostone bed from about 9.4 to 10.3 m, numerous clay seams.																		
11.0		Borehole terminated at 11.03 in shale. NOTE: Stratigraphy inferred from adjacent borehole 47-I. Borehole cored directly to 11.03 m, logged to confirm contacts and for monitor placement.																		




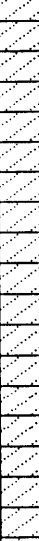
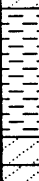
BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 48-1 1 of 3
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 30 September 1992 GEOLOGIST BMH ELEVATION 203.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N	VALUE	% WATER	% REC	% RQD									
												25	50	75	100	25	50	75	100	
1		FILL Brown clayey silt, some fine gravel to coarse sand, fractures with oxidation, DTPL, soft to stiff.		1		SS	11	20												
2.1		CLAYEY SILT Brown clayey silt, laminated, DTPL to APL, stiff. -Fractures with oxidation to about 3.6 m.		2		SS	21	23												
3				3		SS	35	21												
4				4		SS	32	22												
4.6				5		SS	21	25												
4.8				6		SS	20	24												
5		SILTY SAND TILL Brown silty sand to sandy silt with gravel, laminated, wet, dense.		7		SS	40	10	100	61										
6		ERAMOSIA DOLOSTONE Brownish grey, fine crystalline, thin to thick bedded dolostone, numerous shale stringers, occasional vugs and gypsum nodules, minor occurrence of sphalerite mineralization. -Locally thinly interbedded with shale below about 8.0 m.		1		HQ														
7				2		HQ			94	83										
8				3		HQ			100	70										
9				4		HQ			100	89										
10				5		HQ			99	90										
10.9				6		HQ			91	90										
11				7		HQ			100	92										
12.2		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to thick bedded shale, locally interlaminated to interbedded with dolostone, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact.																		
12.9		-Grey dolostone bed with moderate shale content locally from about 12.2 to 12.9 m.																		
13		-Moderate dolostone content below about 12.9 m.																		
14																				

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 48-I 2 of 3
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 30 September 1992 GEOLOGIST BMH ELEVATION 203.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											25	50	75	100	25	50	75	100	
16		VINEMOUNT SHALE (continued) -Transitional below about 15.7 m.		8	HQ				100	94									
16.6				9	HQ				100	100									
17		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, medium bedded dolostone, minor shale content locally, trace occurrences of thin gypsum seams. Occasional shale stringers and gypsum nodules to about 17.7 m.		10	HQ				100	68									
17.7		-1 cm well formed gypsum seam at about 17.3 m.		11	HQ				100	100									
18		SHALE Dark brownish grey, medium bedded shale, interlaminated with dolostone, bioturbation at upper contact.		12	HQ				100	100									
18.6		-Thin bedded from about 18.6 to 19.9 m. -Fractured zone from about 18.8 to 19.2 m. -Becoming medium to massive bedded below about 20.0 m.		13	HQ				100	88									
19				14	HQ				99	98									
20				15	HQ				100	95									
21				16	HQ				100	100									
22				17	HQ				100	100									
23																			
24																			
24.9																			
25		ANCASTER CHERT BEDS Brownish grey to grey, very fine crystalline, medium to massive bedded siliceous dolostone with numerous chert nodules and layers, minor occurrences of sphalerite mineralization usually associated with chert.		16	HQ				100	100									
26				17	HQ				100	100									
27																			
28																			
29		-Fractured zone from about 28.4 to 28.5 m. -Decreasing chert and transitional below about 29.3 m.																	
29.8																			

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 48-II 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 1 October 1992 GEOLOGIST BMH ELEVATION 203.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
1		FILL Brown clayey silt, some fine gravel to coarse sand, fractures with oxidation, DTPL, soft to stiff.																		
2.1		CLAYEY SILT Brown clayey silt, laminated, DTPL to APL, stiff. -Fractures with oxidation to about 3.6 m.																		
3																				
4.6		SILTY SAND TILL Brown silty sand to sandy silt with gravel, laminated, wet, dense.																		
4.8																				
5																				
6		ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to thick bedded dolostone, numerous shale stringers, occasional vugs and gypsum nodules, minor occurrence of sphalerite mineralization.																		
7																				
8		-Locally thinly interbedded with shale below about 8.0 m.																		
9																				
10																				
10.9		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to thick bedded shale, locally interlaminated to interbedded with dolostone, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact.																		
12.2																				
12.9		-Grey dolostone bed with moderate shale content locally from about 12.2 to 12.9 m.																		
13		-Moderate dolostone content below about 12.9 m.																		
14																				

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 48-III 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 1 October 1992 GEOLOGIST BMH ELEVATION 203.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
1		FILL Brown clayey silt, some fine gravel to coarse sand, fractures with oxidation, DTPL, soft to stiff.																
2.1		CLAYEY SILT Brown clayey silt, laminated, DTPL to APL, stiff. -Fractures with oxidation to about 3.6 m.																
3																		
4																		
4.6																		
4.8		SILTY SAND TILL Brown silty sand to sandy silt with gravel, laminated, wet, dense.																
5																		
6		ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to thick bedded dolostone, numerous shale stringers, occasional vugs and gypsum nodules, minor occurrence of sphalerite mineralization.																
7																		
8		-Locally thinly interbedded with shale below about 8.0 m.																
9																		
10																		
10.9																		
11		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to thick bedded shale, locally interlaminated to interbedded with dolostone, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact.																
12.2																		
12.9		-Grey dolostone bed with moderate shale content locally from about 12.2 to 12.9 m.																
13		-Moderate dolostone content below about 12.9 m.																
14																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 48-IV 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 2 October 1992 GEOLOGIST BMH ELEVATION 203.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N	VALUE	% WATER	% REC	% RQD									
												25	50	75	100	25	50	75	100	
1		FILL Brown clayey silt, some fine gravel to coarse sand, fractures with oxidation, DTPL, soft to stiff.																		
2.1		CLAYEY SILT Brown clayey silt, laminated, DTPL to APL, stiff. -Fractures with oxidation to about 3.6 m.																		
3																				
4																				
4.6																				
4.8		SILTY SAND TILL Brown silty sand to sandy silt with gravel, laminated, wet, dense.																		
5		ERAMOSIA DOLOSTONE Brownish grey, fine crystalline, thin to thick bedded dolostone, numerous shale stringers, occasional vugs and gypsum nodules, minor occurrence of sphalerite mineralization.																		
6																				
7																				
8		-Locally thinly interbedded with shale below about 8.0 m.																		
9																				
10.0		Borehole terminated at 9.96 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 48-I. Borehole cored directly to 9.96 m, logged to confirm contacts and for monitor placement.																		

BOREHOLE LOG

PROJECT: 20-654

BOREHOLE: 48-V 2 of 2

Further Monitor Installations
Taro East and West landfills
FOR: PSC

DATE: 12 July 2000
GEOLOGIST: MEW
ELEVATION: 203.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
16.0 ₁₆		Bore hole terminated at 16.00 m in Shale.																

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 49-I 1 of 3
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 5 October 1992 GEOLOGIST BMH ELEVATION 207.3 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY				RQD									
				NUMBER	INTERVAL	TYPE	N	VALVE	% WATER	% REC	% RQD	RECOVERY (%)				RQD (%)						
												25	50	75	100	25	50	75	100			
1	FILL Brown clayey silt, DTPL, firm.			1	SS	16	14	73														
1.4				2	SS	23	22	62														
2				CLAYEY SILT Brown clayey silt, laminated, DTPL, stiff to very stiff. -Oxidized fractures to about 3.0 m. -Becoming APL below about 3.0 m.	3	SS	38	19	51													
3					4	SS	26	22	76													
4.0					5	SS	21	23	64													
5	ERAMOSIA DOLOSTONE Brownish grey, fine crystalline, thin bedded dolostone, slightly weathered to about 5.2 m, locally vuggy and porous.			6	SS	37	16	87														
6				1	HQ			100														
7				2	HQ			99		58												
8				3	HQ			97		94												
9				4	HQ			100		62												
10				5	HQ			100		72												
11				6	HQ			94		83												
12				7	HQ			100		83												
13	-Increasing shale content with occasional shale stringers below about 13.9 m.			8	HQ			100		96												
14																						

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 49-I	2 of 3
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 5 October 1992 GEOLOGIST BMH ELEVATION 207.3 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											25	50	75	100	25	50	75	100	
16		ERAMOSIA DOLOSTONE (continued) -Transitional below about 16.1 m.		9	HQ			100	97										
17.2				10	HQ			99	93										
18.1		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale interlaminated to interbedded with dolostone, moderate dolostone content below about 20.6 m.		11	HQ			78	64										
18.7		-Grey dolostone bed encountered from about 18.1 to 18.7 m, moderated shale content locally.		12	HQ			26	0										
19				13	HQ			100	56										
20																			
21				14	HQ			96	61										
22				15	HQ			100	100										
22				16	HQ			100	98										
22.7		-Transitional below about 22.1 m.																	
23		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, locally minor shale content, trace occurrences of sphalerite mineralization. Occasional shale stringers to about 23.7 m.		17	HQ			98	92										
23.7																			
24																			
24.4																			
25		-1 cm gypsum seam, slightly weathered at about 23.3 m.																	
26		SHALE Dark brownish grey, medium bedded shale, interlaminated with dolostone, bioturbation at upper contact. -Fractured zone from about 25.3 to 25.6 m. -Becoming medium to massive bedded below about 26.0 m.		18	HQ			99	99										
27																			
28																			
29				19	HQ			100	95										

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 49-I 3 of 3
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 5 October 1992 GEOLOGIST BMH ELEVATION 207.3 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											25	50	75	100	25	50	75	100	
31		-Becoming siliceous below about 30.0 m.																	
31.6		-Increasing chert and more siliceous below about 30.5 m.																	
32		ANCASTER CHERT BEDS Brownish grey, very fine crystalline, medium to massive bedded siliceous dolostone with numerous chert nodules and layers, occasional shale stringers.		20	HQ				100	96									
33																			
34		-Fractured zone from about 34.0 to 34.1 m.																	
35		-Transitional below about 34.8 m with increasing occurrences of shale stringers.		21	HQ				100	100									
35.6																			
36		GASPORT DOLOSTONE Blue grey to buff, coarse crystalline, thin to medium bedded dolostone, porous.																	
36.5		DECEW DOLOSTONE Grey, fine crystalline, thin to medium bedded dolostone thinly interbedded with shale.																	
37																			
37.9		Borehole terminated at 37.90 m in dolostone interbedded with shale.																	

Jackman Geoscience Inc.

96 Newcombe Road. Dundas ON

Monitor Completion Date: October 10, 2008

Drilling method - Mud Rotary

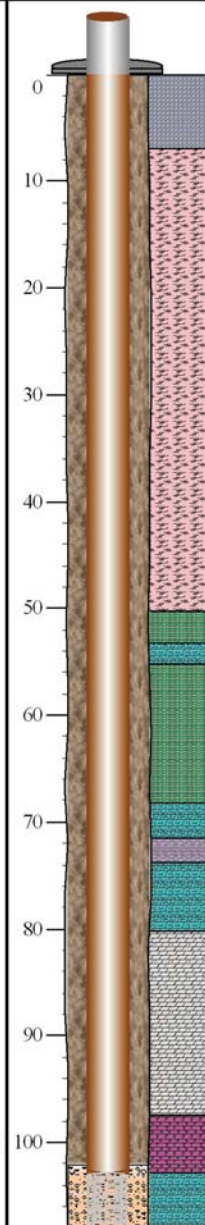
Borehole Log Report

Project: Newalta Corporation

Location: Newalta Hamilton (Stoney Creek) Landfills

Log of Monitor - 49-IR

Drilling Contractor - Lantech Drilling Services Inc.

Depth [m]	Depth [ft]	Monitor details	Geologic Unit	Unit Description
0	0		clayey silt till	Clayey Silt Till: Brown clayey silt, DTPL, firm
10	30		eramosa dolostone	Earamosa Dolostone: Brownish grey, fine crystalline, thin bedded dolostone, locally vuggy and porous. Lost circulation at 5.1m, mineralized fracture noted at this depth.
15	50		vinemount shale	Vinemount Shale: Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale interlaminated to interbedded with dolostone.
			VFZ	Vinemount Flow Zone: Grey dolostone bed, moderated shale content locally
20	60		vinemount2	Vinemount Shale continued: Moderate dolostone content below about 18.8m. Transitional below about 22.1m.
25	70		UFZ shale	Goat Island Dolostone: Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, locally minor shale content, trace occurrences of sphalerite mineralization. Occasional shale stringers to about 21.83 m. -1 cm gypsum seam, slightly weathered
			UMFZ	Shale: Dark brownish grey, medium bedded shale, interlaminated with dolostone, bioturbation at upper contact
30	80		goat island dolostone	Goat Island Dolostone: Fractured zone from about 23.5 to 23.8. Becoming medium to massive bedded below about 26.0 m. -Becoming siliceous below about 30.0 m. -Increasing chert and more siliceous below about 30.5 m.
			ancaster chert beds	Goat Island Dolostone: Becoming medium to massive bedded below about 25m. Becoming siliceous below about 28.0m.
			LFZ	Ancaster Chert Beds: Brownish grey, very fine crystalline, medium to massive bedded siliceous dolostone with numerous chert nodules and layers, occasional shale stringers.
				Ancaster Chert Beds: Fractured zone from about 32.0 to 32.1 m.

Ground Surface Elevation - 205.99 asl.

Top of Casing/Measuring Point - 206.59 asl.

Prepared by W. Jackman, P.Geo.

Borehole Diameter - 10.16 cm
















Casing Diameter - 5.08 cm

Screen Slot Size - N/A

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 49-II 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 7 October 1992 GEOLOGIST BMH ELEVATION 207.3 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE							RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N	VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
1		FILL Brown clayey silt, DTPL, firm.																	
1.4																			
2		CLAYEY SILT Brown clayey silt, laminated, DTPL, stiff to very stiff. -Oxidized fractures to about 3.0 m. -Becoming APL below about 3.0 m.																	
3																			
4.0																			
4		ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin bedded dolostone, slightly weathered to about 5.2 m, locally vuggy and porous.																	
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14		-Increasing shale content with occasional shale stringers below about 13.9 m.																	

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 49-III 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 8 October 1992 GEOLOGIST BMH ELEVATION 207.3 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE							RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N	VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
1		FILL Brown clayey silt, DTPL, firm.																	
1.4		CLAYEY SILT Brown clayey silt, laminated, DTPL, stiff to very stiff. -Oxidized fractures to about 3.0 m. -Becoming APL below about 3.0 m.																	
2																			
3																			
4.0		ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin bedded dolostone, slightly weathered to about 5.2 m, locally vuggy and porous.																	
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14		-Increasing shale content with occasional shale stringers below about 13.9 m.																	

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 49-III 2 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 8 October 1992 GEOLOGIST BMH ELEVATION 207.3 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
16		ERAMOSIA DOLOSTONE (continued) -Transitional below about 16.1 m.																
17.2																		
18.1		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale interlaminated to interbedded with dolostone, moderate dolostone content below about 20.6 m.																
18.7																		
19		-Grey dolostone bed encountered from about 18.1 to 18.7 m, moderated shale content locally.																
20																		
21																		
22		-Transitional below about 22.1 m.																
22.7																		
23		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, trace occurrences of sphalerite mineralization. Occasional shale stringers to about 23.7 m.																
23.7		-1 cm gypsum seam, slightly weathered at about 23.3 m. Borehole terminated at 23.74 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 49-I. Borehole cored directly to 23.74 m, logged to confirm contacts and for monitor placement.																

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 49-IV 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 8 October 1992 GEOLOGIST BMH ELEVATION 207.3 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)								
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD												
											25	50	75	100	25	50	75	100				
1		FILL Brown clayey silt, DTPL, firm.																				
1.4		CLAYEY SILT Brown clayey silt, laminated, DTPL, stiff to very stiff. -Oxidized fractures to about 3.0 m. -Becoming APL below about 3.0 m.																				
2																						
3																						
4.0		ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin bedded dolostone, slightly weathered to about 5.2 m, locally vuggy and porous.																				
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
13.9		Borehole terminated at 13.85 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 49-I. Borehole cored directly to 13.85 m, logged to																				

BOREHOLE LOG	PROJECT: 99-651.2	BOREHOLE: 49-V 1 of 2
Taro East and West Landfills Stoney Creek, Ontario FOR: Philip Services Inc.	DATE: 15 July 1999 GEOLOGIST LM ELEVATION 207.2 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											25	50	75	100	25	50	75	100	
1		FILL Brown clayey silt, DTPL, firm.																	
1.4		CLAYEY SILT Brown clayey silt, laminated, DTPL, stiff to very stiff.																	
2																			
3																			
4.2		ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin bedded dolostone, slightly weathered to about 5.2 m, locally vuggy and porous.		1	HQ					54									
5				2	HQ				100	72									
6				3	HQ				100	69									
7				4	HQ				100	49									
8				5	HQ				100	82									
9				6	HQ				100	92									
10				7	HQ				100	73									
11				8	HQ				100	98									
12																			
13																			
14																			

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 50-1 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 14 October 1992 GEOLOGIST BMH ELEVATION 207.2 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)			RQD (%)						
				NUMBER	INTERVAL	TYPE	N	VALUE	WATER %	REC %	RQD %	25	50	75	100	25	50	75	100
1	CLAYEY SILT Brown to grey brown clayey silt, numerous oxidized fractures, APL, soft to stiff. -Becoming WTPL below about 1.9 m. -Becoming laminated below about 2.3 m.	1	SS	7	29	98													
2		2	SS	18	22	67													
3		3	SS	22	23	67													
4		4	SS	25	22	67													
4.5		5	SS	16	31	80													
5		6	SS	16	24	71													
6	ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers and vugs, locally porous. -Fine to medium crystalline and porous to about 4.7 m.	7	SS	20/	18	22	81												
7		1	HQ	0.08m	100														
8		2	HQ		100	77													
9		3	HQ		100	73													
10																			
11																			
12																			
13																			
14																			

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 50-II 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 15 October 1992 GEOLOGIST BMH ELEVATION 207.2 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)								
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD												
											25	50	75	100	25	50	75	100				
1	CLAYEY SILT Brown to grey brown clayey silt, numerous oxidized fractures, APL, soft to stiff. -Becoming WTPL below about 1.9 m. -Becoming laminated below about 2.3 m.																					
2																						
3																						
4																						
4.5																						
5	ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers and vugs, locally porous. -Fine to medium crystalline and porous to about 4.7 m.																					
6																						
7																						
8																						
9																						
10																						
11																						
12																						
13																						
14																						

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 50-II 2 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 15 October 1992 GEOLOGIST BMH ELEVATION 207.2 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE							RECOVERY (%)				RQD (%)			
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
16 16.9		ERAMOSA DOLOSTONE (continued) -Increasing occurrence of shale stringers below about 15.6 m.	*****															
		Borehole terminated at 16.90 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 50-I. Borehole cored directly to 16.90 m, logged to confirm contacts and for monitor placement.																

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 51-I 1 of 3
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 26 October 1992 GEOLOGIST BMH ELEVATION 207.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N	VALUE	% WATER	% REC	% RQD								
												25	50	75	100	25	50	75	100
0.7		FILL Brown clayey silt, trace sand, fractures with oxidation, APL, stiff.		1		SS	18	22	50										
1		CLAYEY SILT Brown to grey brown clayey silt, occasional fine gravel, trace sand, fractured with orange and black oxidation, APL, very stiff to hard.		2		SS	33	18	56										
2				3		SS	49	16	78										
3				4		SS	23	20	78										
3.5				5		SS	23	21	78										
4.2		CLAYEY SILT TILL Brown clayey silt with fine sand, occasional fine gravel, APL, hard.		6		SS	37	12	66										
5		ERAMOSIA DOLOSTONE Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, locally porous, minor occurrences of small vugs. -Highly fractured to about 4.7 m. -Shale stringers weathered to about 9.2 m.		1		HQ			100	51									
6				2		HQ			99	76									
7																			
8				3		HQ			100	62									
9																			
10																			
11				4		HQ			100	78									
12																			
13																			
14				5		HQ			100	88									
		-Locally thinly interbedded with shale below about 14.4 m.																	

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 51-I 2 of 3
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 26 October 1992 GEOLOGIST BMH ELEVATION 207.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY (%)				RQD (%)							
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
16		-Thin vertical fracture with gypsum infilling from about 14.5 to 15.2 m.																		
17				6		HQ				100	87									
17.7																				
18		VINEMOUNT SHALE																		
18.5		Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to interbedded with dolostone below about 20.1 m, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact.																		
19.1				7		HQ				100	95									
20		-Dolostone bed from about 18.5 to 19.1 m, moderate shale content locally .																		
21																				
22																				
22.8				8		HQ				100	92									
23		GOAT ISLAND DOLOSTONE																		
24.0		Brownish grey to grey, fine crystalline, thick bedded dolostone, occasional shale stringers to about 24.0 m, trace fossils.																		
24.6		-5 mm well formed gypsum seam at about 23.5 m.																		
25		SHALE																		
25		Dark brownish grey, medium bedded shale, slightly laminated with dolostone, bioturbation at upper contact.																		
26		-Thin bedded from about 24.6 to 26.6 m. -Fractured zone from about 25.3 to 26.6 m.		9		HQ				100	99									
27																				
28																				
29				10		HQ				100										

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 51-I 3 of 3
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 26 October 1992 GEOLOGIST BMH ELEVATION 207.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER		SAMPLE					RECOVERY (%)				RQD (%)					
					NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD								
												25	50	75	100	25	50	75	100
30.2		ANCASTER CHERT BEDS																	
31		Brownish grey to light brown, fine to very fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and layers, minor occurrences of sphalerite mineralization usually associated with chert.																	
32			11	HQ				99	91										
33																			
34		-Fracture encountered at about 34.0 m.																	
35		-Becoming transitional with decreasing chert below about 34.9 m.	12	HQ				99	99										
35.5																			
36		GASPORT DOLOSTONE Buff to blue grey, coarse crystalline, medium bedded dolostone, porous, some fossils.																	
36.6		Borehole terminated at 36.63 m in dolostone.																	

















BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 51-II 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 27 October 1992 GEOLOGIST BMH ELEVATION 207.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N	VALUE	% WATER	% REC	% RQD									
												25	50	75	100	25	50	75	100	
0.7		FILL Brown clayey silt, trace sand, fractures with oxidation, APL, stiff.																		
1		CLAYEY SILT Brown to grey brown clayey silt, occasional fine gravel, trace sand, fractured with orange and black oxidation, APL, very stiff to hard.																		
2																				
3																				
3.5																				
4.2		CLAYEY SILT TILL Brown clayey silt with fine sand, occasional fine gravel, APL, hard.																		
5		ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, locally porous, minor occurrences of small vugs. -Highly fractured to about 4.7 m. -Shale stringers weathered to about 9.2 m.																		
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14		-Locally thinly interbedded with shale below about 14.4 m.																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 51-II 2 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 27 October 1992 GEOLOGIST BMH ELEVATION 207.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
16		-Thin vertical fracture with gypsum infilling from about 14.5 to 15.2 m.																		
17																				
17.7																				
18		VINEMOUNT SHALE																		
18.5		Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to interbedded with dolostone below about 20.1 m, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact.																		
19.1																				
19																				
20		-Dolostone bed from about 18.5 to 19.1 m, moderate shale content locally .																		
21																				
22																				
22.8																				
23		GOAT ISLAND DOLOSTONE																		
24.0		Brownish grey to grey, fine crystalline, thick bedded dolostone, occasional shale stringers to about 24.0 m, trace fossils.																		
24		-5 mm well formed gypsum seam at about 23.5 m.																		
24.6		SHALE																		
25		Dark brownish grey, medium bedded shale, slightly laminated with dolostone, bioturbation at upper contact.																		
26		-Thin bedded from about 24.6 to 26.6 m. -Fractured zone from about 25.3 to 26.6 m.																		
26.8																				
		Borehole terminated at 26.77 m in dolostone.																		
		NOTE: Stratigraphy inferred from adjacent borehole 51-I. Borehole cored directly to 26.77 m, logged to confirm contacts and for monitor placement.																		





BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 51-III 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 29 October 1992 GEOLOGIST BMH ELEVATION 207.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY				RQD						
				NUMBER	INTERVAL	TYPE	N	VALUE	% WATER	% REC	% RQD	RECOVERY (%)				RQD (%)				
												25	50	75	100	25	50	75	100	
0.7		FILL Brown clayey silt, trace sand, fractures with oxidation, APL, stiff.																		
1		CLAYEY SILT Brown to grey brown clayey silt, occasional fine gravel, trace sand, fractured with orange and black oxidation, APL, very stiff to hard.																		
2																				
3																				
3.5																				
4.2		CLAYEY SILT TILL Brown clayey silt with fine sand, occasional fine gravel, APL, hard.																		
5		ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, locally porous, minor occurrences of small vugs. -Highly fractured to about 4.7 m. -Shale stringers weathered to about 9.2 m.																		
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
		-Locally thinly interbedded with shale below about 14.4 m.																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 51-III 2 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 29 October 1992 GEOLOGIST BMH ELEVATION 207.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE							RECOVERY (%)				RQD (%)					
				NUMBER	INTERVAL	TYPE	N	VALUE	% WATER	% REC	% RQD									
												25	50	75	100	25	50	75	100	
16		-Thin vertical fracture with gypsum infilling from about 14.5 to 15.2 m.																		
17																				
17.7																				
18		VINEMOUNT SHALE																		
18.5		Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to interbedded with dolostone below about 20.1 m, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact.																		
19.1																				
20		-Dolostone bed from about 18.5 to 19.1 m, moderate shale content locally .																		
21																				
22																				
22.8																				
23		GOAT ISLAND DOLOSTONE																		
24.1		Brownish grey to grey, fine crystalline, thick bedded dolostone, occasional shale stringers to about 24.0 m, trace fossils.																		
24		-5 mm well formed gypsum seam at about 23.5 m. Borehole terminated at 24.06 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 51-I. Borehole cored directly to 24.06 m, logged to confirm contacts and for monitor placement.																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 51-IV 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 2 November 1992 GEOLOGIST BMH ELEVATION 207.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
0.7		FILL Brown clayey silt, trace sand, fractures with oxidation, APL, stiff.																		
1		CLAYEY SILT Brown to grey brown clayey silt, occasional fine gravel, trace sand, fractured with orange and black oxidation, APL, very stiff to hard.																		
2																				
3																				
3.5																				
4.2		CLAYEY SILT TILL Brown clayey silt with fine sand, occasional fine gravel, APL, hard.																		
5		ERAMOSIA DOLOSTONE Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, locally porous, minor occurrences of small vugs. -Highly fractured to about 4.7 m. -Shale stringers weathered to about 9.2 m.																		
6																				
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
		-Locally thinly interbedded with shale below about 14.4 m.																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 51-IV 2 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 2 November 1992 GEOLOGIST BMH ELEVATION 207.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)					
				NUMBER	INTERVAL	TYPE	N	VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
16		-Thin vertical fracture with gypsum infilling from about 14.5 to 15.2 m.																	
17																			
17.7																			
18		VINEMOUNT SHALE																	
18.5		Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to interbedded with dolostone below about 20.1 m, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact.																	
19.1																			
19.9		-Dolostone bed from about 18.5 to 19.1 m, moderate shale content locally . Borehole terminated at 19.90 m in shale. NOTE: Stratigraphy inferred from adjacent borehole 51-I. Borehole cored directly to 19.90 m, logged to confirm contacts and for monitor placement.																	

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 51-V 2 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 3 November 1992 GEOLOGIST BMH ELEVATION 207.8 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE							RECOVERY (%)				RQD (%)			
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
15.4		-Thin vertical fracture with gypsum infilling from about 14.5 to 15.2 m. Borehole terminated at 15.38 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 51-I. Borehole cored directly to 15.38 m, logged to confirm contacts and for monitor placement.																

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 51-VI 1 of 3
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 6 November 1992 GEOLOGIST BMH ELEVATION 207.9 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)					
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											25	50	75	100	25	50	75	100	
0.7		FILL Brown clayey silt, trace sand, fractures with oxidation, APL, stiff.																	
1		CLAYEY SILT Brown to grey brown clayey silt, occasional fine gravel, trace sand, fractured with orange and black oxidation, APL, very stiff to hard.																	
2																			
3																			
3.5																			
4.2		CLAYEY SILT TILL Brown clayey silt with fine sand, occasional fine gravel, APL, hard.																	
5		ERAMOSIA DOLOSTONE Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, locally porous, minor occurrences of small vugs. -Highly fractured to about 4.7 m. -Shale stringers weathered to about 9.2 m.		1	HQ				100	100									
5				2	HQ				99	78									
6																			
7																			
8				3	HQ				96	69									
9																			
10																			
11				4	HQ				100	58									
12																			
13																			
14				5	HQ				100	91									
		-Locally thinly interbedded with shale below about 14.4 m.																	

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 51-VI 2 of 3
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 6 November 1992 GEOLOGIST BMH ELEVATION 207.9 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											25	50	75	100	25	50	75	100	
16		-Thin vertical fracture with gypsum infilling from about 14.5 to 15.2 m.																	
17				6		HQ				99	89								
17.7																			
18		VINEMOUNT SHALE																	
18.5		Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to interbedded with dolostone below about 20.1 m, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact.																	
19.1																			
20		-Dolostone bed from about 18.5 to 19.1 m, moderate shale content locally .		7		HQ				100	100								
21																			
22																			
22.8																			
23		GOAT ISLAND DOLOSTONE																	
24.0		Brownish grey to grey, fine crystalline, thick bedded dolostone, occasional shale stringers to about 24.0 m, trace fossils.																	
24.6		-5 mm well formed gypsum seam at about 23.5 m.																	
25		SHALE																	
25		Dark brownish grey, medium bedded shale, slightly laminated with dolostone, bioturbation at upper contact.																	
26		-Thin bedded from about 24.6 to 26.6 m.																	
26				9		HQ				99	98								
27																			
28																			
29		-Becoming siliceous with minor occurrences of chert and gypsum seams below about																	
29				10		HQ				99	95								

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 51-VI 3 of 3
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 6 November 1992 GEOLOGIST BMH ELEVATION 207.9 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											25	50	75	100	25	50	75	100	
30.2		ANCASTER CHERT BEDS Brownish grey to light brown, fine to very fine crystalline, medium bedded siliceous dolostone with numerous chert nodules and layers, minor occurrences of sphalerite mineralization usually associated with chert.																	
31																			
32																			
33																			
34																			
35		-Becoming transitional with decreasing chert below about 34.9 m.																	
35.5		GASPORT DOLOSTONE Buff to blue grey, coarse crystalline, medium bedded dolostone, porous, some fossils.																	
36																			
36.6		DECEW DOLOSTONE Grey, fine crystalline, massive dolostone thinly interbedded with shale.																	
37																			
38																			
38.4		ROCHESTER SHALE Dark grey to grey, aphanitic to very fine crystalline, thick to massive bedded dolomitic shale.																	
39																			
40																			
41																			
42																			
43																			
44.2		Borehole terminated at 44.15 m in dolomitic shale.																	

BOREHOLE LOG	PROJECT: 99-651.2	BOREHOLE: 51-VII 1 of 3
Taro East and West Landfills Stoney Creek, Ontario FOR: Philip Services Inc.		DATE: 22 July 1999 GEOLOGIST LM ELEVATION 208.4 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY			RQD					
				NUMBER	INTERVAL TYPE	N VALUE	% WATER	% REC	% RQD	RECOVERY (%)			RQD (%)					
										25	50	75 100	25	50	75 100			
0.7		FILL Brown clayey silt, trace sand, fractures with oxidation, APL, stiff.																
1		CLAYEY SILT Brown to grey brown clayey silt, occasional fine gravel, trace fine sand, fractured with orange and black oxidation, APL, very stiff to hard.																
2																		
3																		
3.5																		
4		CLAYEY SILT TILL Brown clayey silt with fine sand, occasional fine gravel, APL, hard.																
4.2		ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, locally porous, minor occurrence of small vugs. -Highly fractured to about 4.7 m. -Shale stringers and weathered to about 9.2 m.																
5				1	HQ				38	41								
6				2	HQ				100	73								
7				3	HQ				100	70								
8				4	HQ				100	448								
9				5	HQ				100	62								
10				6	HQ				100	0								
11				7	HQ				100	82								
12				8	HQ				100	100								
13				9	HQ				100	77								
14				10	HQ				100	82								
		-Locally thinly interbedded with shale below about 14.4 m.																

BOREHOLE LOG	PROJECT: 99-651.2	BOREHOLE: 51-VIII 1 of 2
Taro East and West Landfills Stoney Creek, Ontario FOR: Philip Services Inc.		DATE: 23 July 1999 GEOLOGIST LM ELEVATION 208.5 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
0.7		FILL Brown clayey silt, trace sand, fractures with oxidation, APL, stiff.																		
1		CLAYEY SILT Brown to grey brown clayey silt, occasional fine gravel, trace fine sand, fractured with orange and black oxidation, APL, very stiff to hard.																		
2																				
3																				
3.5																				
4		CLAYEY SILT TILL Brown clayey silt with fine sand, occasional fine gravel, APL, hard.																		
4.2		ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, locally porous, minor occurrence of small vugs. -Highly fractured to about 4.7 m. -Shale stringers and weathered to about 9.2 m.		1	HQ															
5				2	HQ															
6																				
7				3	HQ															
8																				
9																				
10				4	HQ															
11																				
12				5	HQ															
13																				
14				6	HQ															
				7	HQ															
				8	HQ															
		-Locally thinly interbedded with shale below about 14.4 m.																		

BOREHOLE LOG	PROJECT: 99-651.2	BOREHOLE: 51-VIII 2 of 2
Taro East and West Landfills Stoney Creek, Ontario FOR: Philip Services Inc.	DATE: 23 July 1999 GEOLOGIST LM ELEVATION 208.5 m ASL	

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
16		ERAMOSA DOLOSTONE (continued)		9		HQ												
17				10		HQ												
17.7																		
18		VINEMOUNT SHALE Brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to interbedded with dolostone below about 20.1 m, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact. -Dolostone bed from about 18.5 to 19.1 m, moderate shale content locally.		11		HQ												
19				12		HQ												
20				13		HQ												
21				14		HQ												
22				15		HQ												
22.8				16		HQ												
23		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thick bedded dolostone, occasional shale stringers to about 24.0 m, trace fossils. -5 mm well formed gypsum seam at about 23.5 m.		17		HQ												
24.0																		
24.6		SHALE Dark brownish grey, medium bedded shale, slightly laminated with dolostone, bioturbation at upper contact. -Thin bedded from about 24.6 to 26.6 m. -Fractured zone from about 25.3 to 26.6 m.		18		HQ												
25				19		HQ												
26				20		HQ												
26.8		Borehole terminated at 26.82 m in dolostone. Stratigraphy inferred from adjacent borehole 51-1.																

BOREHOLE LOG	PROJECT: 99-651.2	BOREHOLE: 51-IX 1 of 2
Taro East and West Landfills Stoney Creek, Ontario FOR: Philip Services Inc.		DATE: 21 July 1999 GEOLOGIST: LM ELEVATION: 208.4 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE				RECOVERY (%)				RQD (%)								
				NUMBER	INTERVAL TYPE	N VALUE	% WATER	% REC	% RQD											
										25	50	75	100	25	50	75	100			
0.7		FILL Brown clayey silt, trace sand, fractures with oxidation, APL, stiff.																		
1		CLAYEY SILT Brown to grey brown clayey silt, occasional fine gravel, trace fine sand, fractured with orange and black oxidation, APL, very stiff to hard.																		
2																				
3																				
3.5																				
4.2		CLAYEY SILT TILL Brown clayey silt with fine sand, occasional fine gravel, APL, hard.																		
4.2		ERAMOSA DOLOSTONE Brownish grey, fine crystalline, thin to medium bedded dolostone, occasional shale stringers, locally porous, minor occurrence of small vugs. -Highly fractured to about 4.7 m. -Shale stringers and weathered to about 9.2 m.		1	HQ															
5				2	HQ															
6				3	HQ															
7				4	HQ															
8				5	HQ															
9				6	HQ															
10				7	HQ															
11				8	HQ															
12				9	HQ															
13																				
14																				
		-Locally thinly interbedded with shale below about 14.4 m.																		

BOREHOLE LOG	PROJECT: 99-651.2	BOREHOLE: 51-IX 2 of 2
Taro East and West Landfills Stoney Creek, Ontario FOR: Philip Services Inc.		DATE: 21 July 1999 GEOLOGIST LM ELEVATION 208.4 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
16		ERAMOSA DOLOSTONE (continued)		10		HQ														
17				11		HQ														
17.7																				
18		VINEMOUNT SHALE Brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, interlaminated to interbedded with dolostone below about 20.1 m, dolostone beds usually associated with bioturbation at lower contact and fossils at upper contact. -Dolostone bed from about 18.5 to 19.1 m, moderate shale content locally.		12		HQ														
19																				
20				13		HQ														
21																				
22				14		HQ														
22.8																				
23		GOAT ISLAND DOLOSTONE Brownish grey to grey, fine crystalline, thick bedded dolostone, occasional shale stringers to about 24.0 m, trace fossils. -5 mm well formed gypsum seam at about 23.5 m. Borehole terminated at 23.98 m in dolostone.		15		HQ														
23.9																				
24.0																				
		Stratigraphy inferred from adjacent borehole 51-I.																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 52-I 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 6 October 1992 GEOLOGIST PW ELEVATION 204.7 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD									
											25	50	75	100	25	50	75	100	
1.0		SANDY SILT Dark brown, mottled rust brown and grey, sandy silt with clay, moist, compact.		1		SS	20	22	50										
1		ERAMOSA DOLOSTONE Brownish grey to greyish brown, fine crystalline, thin to medium bedded dolostone, locally weathered and porous to about 9.2 m, occasional shale stringers.		2		SS	37/	12											
				1		HQ	0.03m		100	31									
2				2		HQ			100	28									
3				3		HQ			100	53									
4				4		HQ			99	83									
5				5		HQ			97	78									
6				6		HQ			100	76									
7				7		HQ			99	84									
8				8		HQ			100	89									
9		-Becoming thinly interbedded with shale below about 9.5 m.		9		HQ			100	78									
10				10		HQ			96	68									
11																			
12		-Transitional below about 11.7 m.																	
13.0		VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, locally interlaminated to thinly interbedded with dolostone.																	
13.8																			
14.4		-Dolostone bed from about 13.8 to 14.4 m, moderate shale content locally .																	

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 52-1 2 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 6 October 1992 GEOLOGIST PW ELEVATION 204.7 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE					RECOVERY (%)				RQD (%)							
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
16		<u>VINEMOUNT SHALE</u> (continued)		11		HQ				99	78									
17		-Becoming transitional below about 11.7 m.		12		HQ				100	82									
18.0		<u>GOAT ISLAND DOLOSTONE</u> Brownish grey to grey, fine crystalline, thin to medium bedded dolostone, moderate shale content, trace fossils, minor occurrence of sphalerite mineralization.		13		HQ				92	83									
19.2		-3 cm gypsum nodule followed by a 1 cm gypsum, seam slightly weathered, at about 18.8 m. Borehole terminated at 19.19 m in dolostone.																		

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 52-II 1 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 7 October 1992 GEOLOGIST PW ELEVATION 204.7 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE				RECOVERY (%)				RQD (%)								
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
1.0	1	SANDY SILT Dark brown, mottled rust brown and grey, sandy silt with clay, moist, compact.																		
2	2	ERAMOSA DOLOSTONE Brownish grey to greyish brown, fine crystalline, thin to medium bedded dolostone, locally weathered and porous to about 9.2 m, occasional shale stringers.																		
3	3																			
4	4																			
5	5																			
6	6																			
7	7																			
8	8																			
9	9																			
10	10	-Becoming thinly interbedded with shale below about 9.5 m.																		
11	11																			
12	12	-Transitional below about 11.7 m.																		
13.0	13	VINEMOUNT SHALE Dark brownish grey, aphanitic to very fine crystalline, thin to medium bedded shale, locally interlaminated to thinly interbedded with dolostone.																		
13.8	14	-Dolostone bed from about 13.8 to 14.4 m, moderate shale content locally .																		
14.4	14																			

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 52-II 2 of 2
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 7 October 1992 GEOLOGIST PW ELEVATION 204.7 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)				
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD	25	50	75	100	25	50	75	100
15.3		VINEMOUNT SHALE (continued) Borehole terminated at 15.30 m in shale. NOTE: Stratigraphy inferred from adjacent borehole 52-I. Borehole cored directly to 15.30 m, logged to confirm contacts and for monitor placement.																

BOREHOLE LOG	PROJECT: 92-372	BOREHOLE: 52-III 1 of 1
HYDROGEOLOGICAL INVESTIGATION TARO QUARRIES - STONEY CREEK FOR: TARO AGGREGATES LTD.		DATE: 8 October 1992 GEOLOGIST PW ELEVATION 204.7 m ASL

DEPTH (m)	STRATIGRAPHY	STRATIGRAPHIC DESCRIPTION	MONITOR DETAILS & NUMBER	SAMPLE						RECOVERY (%)				RQD (%)						
				NUMBER	INTERVAL	TYPE	N VALUE	% WATER	% REC	% RQD										
											25	50	75	100	25	50	75	100		
1.0		SANDY SILT Dark brown, mottled rust brown and grey, sandy silt with clay, moist, compact.																		
2		ERAMOSA DOLOSTONE Brownish grey to greyish brown, fine crystalline, thin to medium bedded dolostone, locally weathered and porous to about 9.2 m, occasional shale stringers.																		
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10.0		Borehole terminated at 10.04 m in dolostone. NOTE: Stratigraphy inferred from adjacent borehole 52-I. Borehole cored directly to 10.04 m, logged to confirm contacts and for monitor placement.																		