

APPENDIX 'A'

GEOTECHNICAL REPORT

APPENDIX 'A' - GEOTECHNICAL REPORT

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The geotechnical report is provided to aid in the Contractor's evaluation of the existing pavement structure and/or soil conditions. The information presented is considered accurate at the locations shown on the Drawings and at the time of drilling. However, variations in pavement structure and/or soil conditions may exist between test holes and fluctuations in groundwater levels can be expected seasonally and may occur as a result of construction activities. The nature and extent of variations may not become evident until construction commences.



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December 3, 2007

Project: St. Mary's Road

Attention: Kevin Rae

On November 27 and 28, a total of 16 core samples were recovered from the northbound and southbound lanes of St. Mary's Road, between Fermor Avenue and St. Anne's Road. The purpose of the coring program was to determine the thickness of the asphalt and concrete pavement and to determine the condition of the concrete structure at this particular location of St. Mary's Road. In addition, the core samples were tested for compressive strength in accordance with CSA A23.2-14C, Obtaining and Testing Drilled Cores for Compressive Strength. The depth of the core samples, the condition and compressive strength of the concrete section are shown in the attached Table 1. Photographs of the core samples were taken and are attached to this report.

We appreciate the opportunity to assist you in this project. Please call if you have any questions regarding our report.

Jason Thompson, C.E.T.
Supervisor, Materials Testing Services

TABLE 1
ST. MARY'S ROAD, FERMOR AVENUE TO ST. ANNE'S ROAD
NORTHBOUND AND SOUTHBOUND LANES

Core No.	Location	Core Depth (mm)		Compressive Strength (MPa)	Remarks
		Asphalt	Concrete		
1	northbound curb lane, in front of 767 St. Mary's Rd	95	215	50.3	sound concrete, poor bond to asphalt pavement
2	northbound median lane, in front of 727 St. Mary's Rd	55	220	49.8	sound concrete, good bond to asphalt pavement
3	northbound curb lane, in front of 700 St. Mary's Rd	55	215	57.3	sound concrete, good bond to asphalt pavement
4	northbound median lane, in front of 675 St. Mary's Rd	125	225	34.8	sound concrete, good bond to asphalt pavement
5	northbound curb lane, in front of 657 St. Mary's Rd	95	195	43.5	sound concrete, good bond to asphalt pavement
6	northbound median lane, in front of 635 St. Mary's Rd	80	190	73.8	sound concrete, good bond to asphalt pavement
7	northbound curb lane, in front of 618 St. Mary's Rd	50	205	67.0	sound concrete, good bond to asphalt pavement
8	northbound median lane, in front of 604 St. Mary's Rd	40	175	43.4	sound concrete, poor bond to asphalt pavement
9	southbound curb lane, in front of 593 St. Mary's Rd	40	220	45.0	sound concrete, poor bond to asphalt pavement
10	southbound median lane, in front of 616 St Mary's Rd	30	200	48.9	sound concrete, good bond to asphalt pavement
11	southbound curb lane, in front of 637 St. Mary's Rd	70	195	52.2	sound concrete, poor bond to asphalt pavement
12	southbound median lane, in front of 658 St Mary's Rd	35	200	38.0	sound concrete, good bond to asphalt pavement
13	southbound curb lane, in front of 676 St. Mary's Rd	50	210	35.2	sound concrete, good bond to asphalt pavement
14	southbound median lane, in front of 702 St Mary's Rd	100	180	60.0	sound concrete, good bond to asphalt pavement
15	southbound curb lane, in front of 744 St. Mary's Rd	60	200	66.2	sound concrete, good bond to asphalt pavement
16	southbound median lane, in front of 767 St Mary's Rd	45	190	44.0	sound concrete, good bond to asphalt pavement

**St. Mary's Road, Fermor Avenue to St. Anne's Road
Northbound and Southbound Lanes**



Core no. 2



Core no. 1

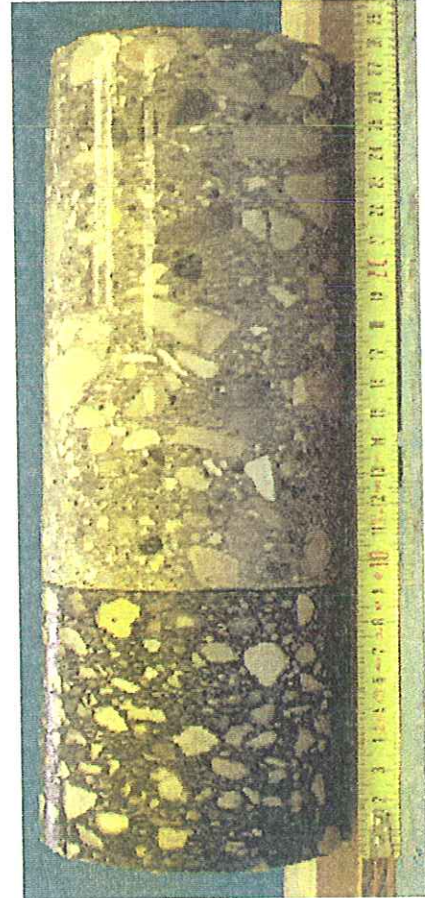


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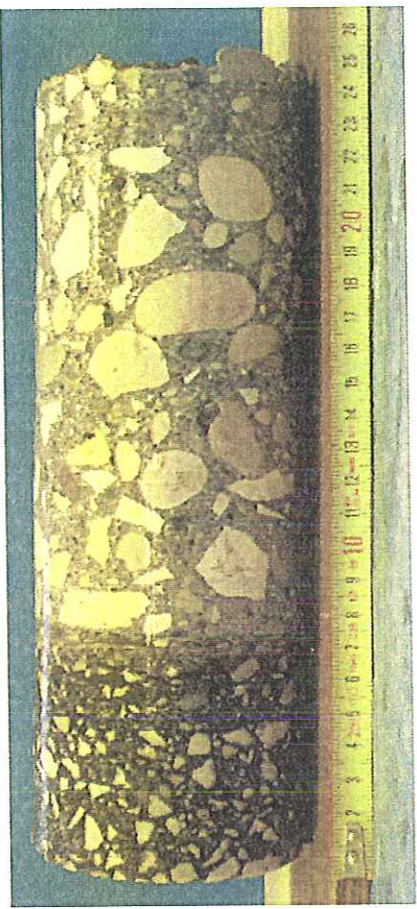


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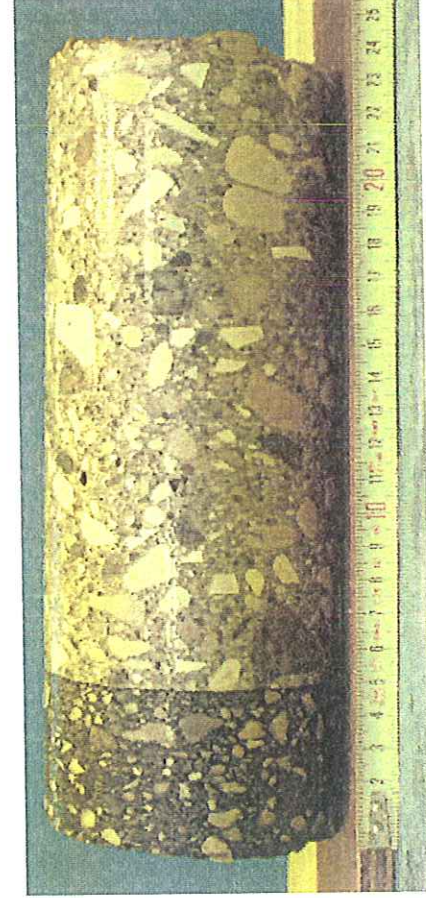
**St. Mary's Road, Fermor Avenue to St. Anne's Road
Northbound and Southbound Lanes**



Core no. 5



Core no. 6

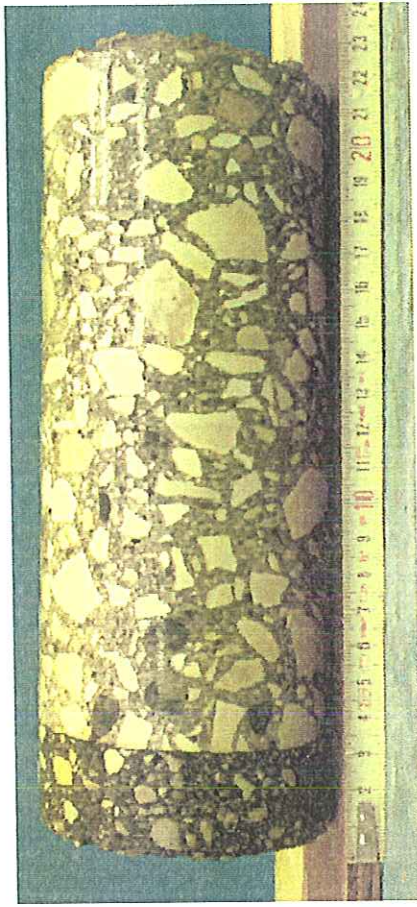


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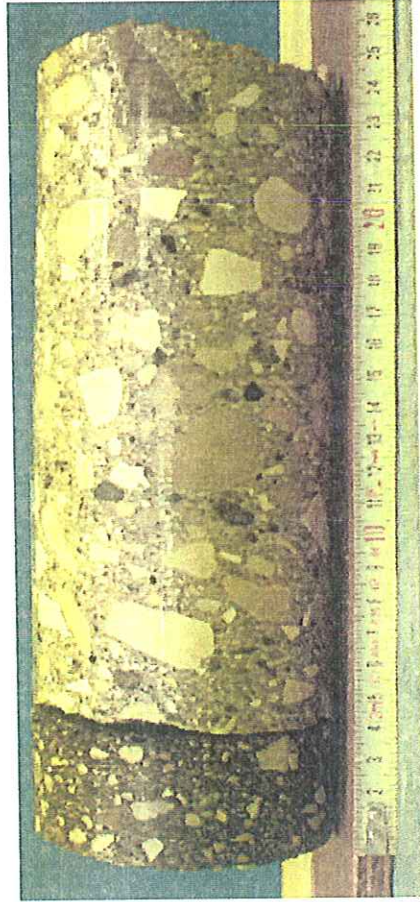


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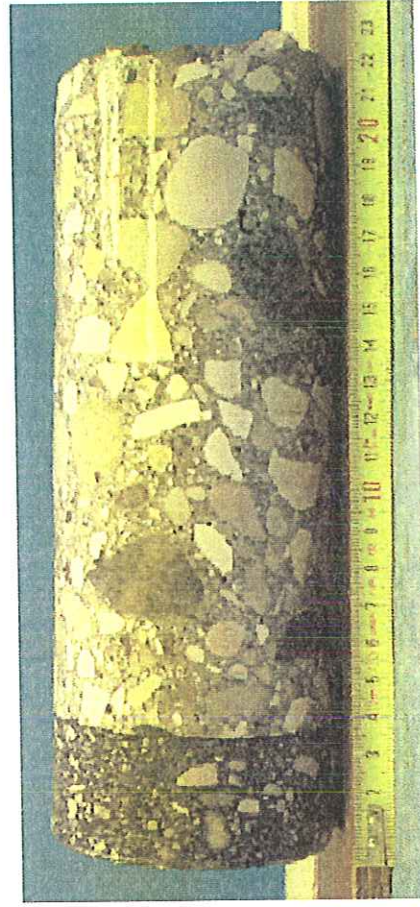
**St. Mary's Road, Fermor Avenue to St. Anne's Road
Northbound and Southbound Lanes**



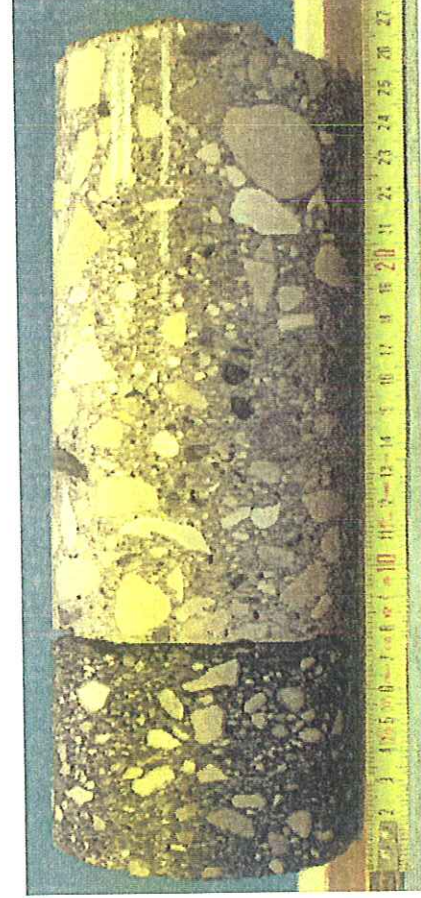
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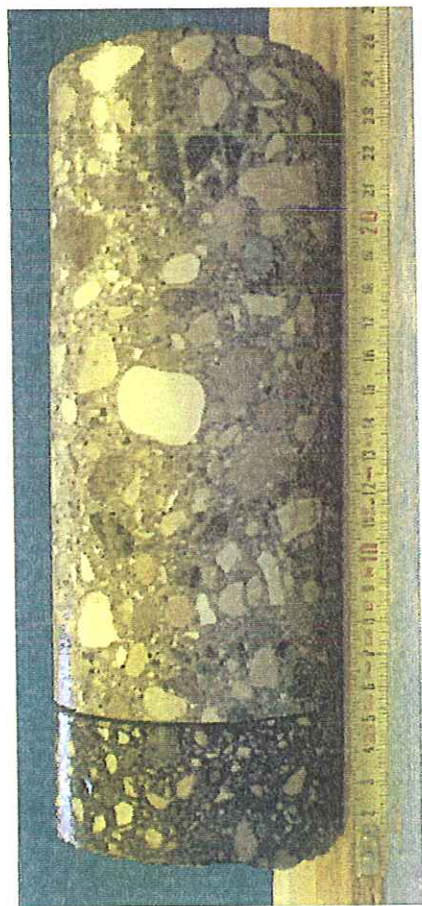


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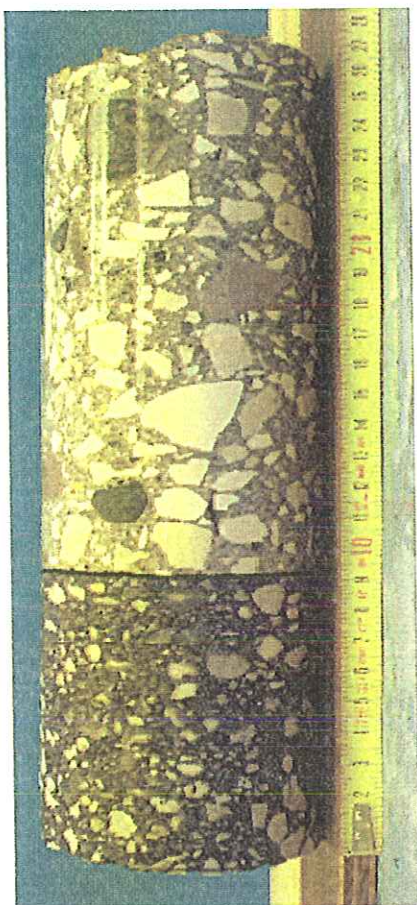


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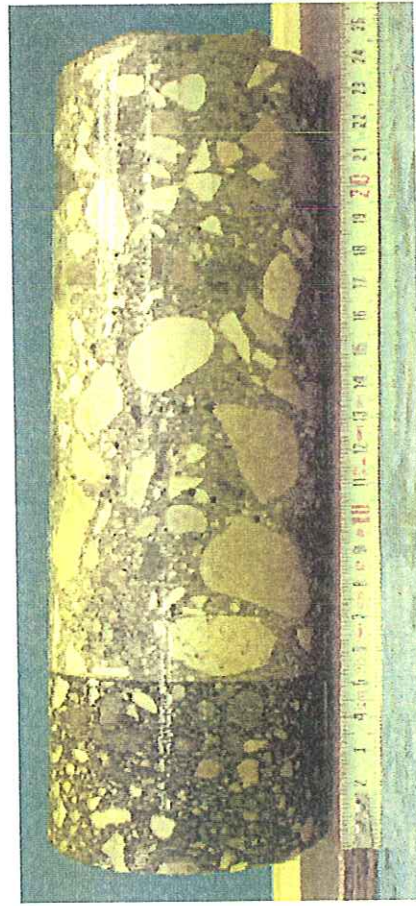
St. Mary's Road, Fermor Avenue to St. Anne's Road
Northbound and Southbound Lanes



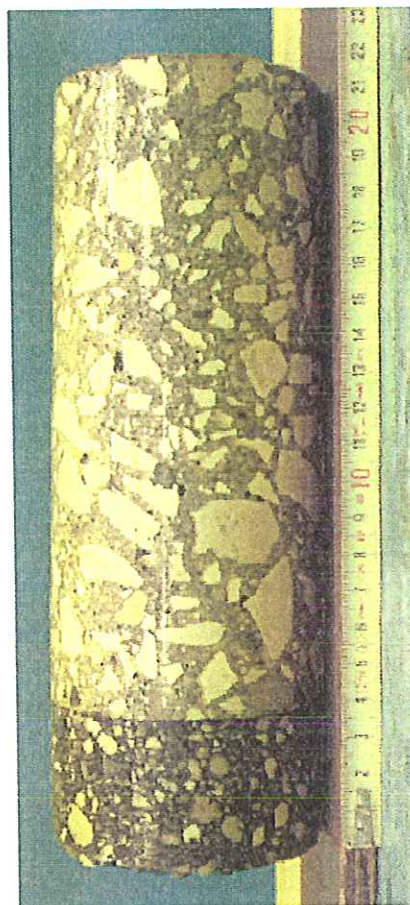
Core no. 13



Core no. 14



Core no. 15



Core no. 16