

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.

Geotechnical Report for Henderson Highway (Southbound) – Munroe Avenue to Hespeler Avenue

Test Hole Locations



Summary of Core Samples



**TABLE 1
 PAVEMENT CORE SUMMARY
 SOUTHBOUND HENDERSON HIGHWAY, MUNROE AVENUE TO HESPELER AVENUE**

Core No.	Core Location	Pavement Structure Thickness (mm)			Comments
		Asphalt	Concrete	Total	
1	Henderson Hwy, southbound curb lane, 0.5 m from curb, 6 m south from pedestrian crosswalk north of Munroe Avenue	150	250	400	<ul style="list-style-type: none"> Asphalt pavement not bonded to concrete surface Moderate deterioration of concrete pavement at bond line with asphalt pavement; sound concrete below 225 mm from top of pavement Limestone base below pavement
2	Henderson Hwy, southbound curb lane, 1.4 m from curb, 20 m north from north entrance to 480 Henderson Highway	75	250	325	<ul style="list-style-type: none"> Asphalt pavement not bonded to concrete surface Moderate deterioration of concrete pavement at bond line with asphalt pavement; sound concrete below 160 mm from top of pavement Granular base below pavement
3	Henderson Hwy, southbound curb lane, 1 m from curb, 5 m north from south wall of 442 Henderson Highway	75	255	330	<ul style="list-style-type: none"> Asphalt pavement not bonded to concrete surface Moderate deterioration of concrete pavement at bond line with asphalt pavement; sound concrete below 130 mm from top of pavement Granular base below pavement
4	Henderson Hwy, southbound median lane, 0.5 m from curb, 1 m south from south wall of 415 Henderson Highway	155	205	360	<ul style="list-style-type: none"> Asphalt pavement not bonded to concrete surface Sound concrete below asphalt pavement Granular base below pavement
5	Henderson Hwy, southbound curb lane, 0.5 m from curb, 7 m south from pedestrian crosswalk north of Larsen Avenue	155	250	405	<ul style="list-style-type: none"> Fractured asphalt pavement 75mm below surface Asphalt pavement not bonded to concrete surface Severe deterioration of concrete below asphalt pavement Granular base below pavement



Core No.	Core Location	Pavement Structure Thickness (mm)			Comments
		Asphalt	Concrete	Total	
6	Henderson Hwy, southbound curb lane, 1.4 m from curb, 1 m north from north wall of 336 Henderson Highway	35	210	245	<ul style="list-style-type: none"> Asphalt pavement bonded to concrete surface Sound concrete below asphalt pavement Limestone base below pavement
7	Henderson Hwy, southbound curb lane, 1.4 m from curb, 7 m south from south wall of 276 Henderson Highway	35	235	270	<ul style="list-style-type: none"> Asphalt pavement not bonded to concrete surface Slight deterioration of concrete pavement at bond line with asphalt pavement; sound concrete below 60 mm from top of pavement Limestone base below pavement
8	Henderson Hwy, southbound median lane, 0.5 m from curb, 9 m south from south wall of 263 Henderson Highway	115	220	335	<ul style="list-style-type: none"> Asphalt pavement not bonded to concrete surface Moderate deterioration of concrete pavement at bond line with asphalt pavement and at 210 mm below top of pavement Granular base below pavement
9	Henderson Hwy, southbound curb lane, 0.6 m from curb, 8 m south from pedestrian crosswalk north of Johnson Avenue W	35	235	270	<ul style="list-style-type: none"> Asphalt pavement not bonded to concrete surface Sound concrete below pavement to a depth of 230 mm where fracture was identified Clay/Granular mix below pavement
10	Henderson Hwy, southbound curb lane, 0.6 m from curb, 3 m south from south wall of 200 Henderson Highway	25	275	300	<ul style="list-style-type: none"> Asphalt pavement not bonded to concrete surface Moderate deterioration of concrete pavement at bond line with asphalt pavement; sound concrete below 100 mm from top of pavement Limestone base below pavement
11	Henderson Hwy, southbound median lane, 0.5 m from curb, 4 m south from south wall of 186 Henderson Highway	40	195	235	<ul style="list-style-type: none"> Asphalt pavement not bonded to concrete surface Sound concrete below asphalt pavement Clay subgrade below pavement

Pavement Core Photos



Core no. 1



Core no. 2



Core no. 3



Core no. 4



Core no. 5



Core no. 6



Core no. 7



Core no. 8



Core no. 9



Core no. 10



Core no. 11