

Source Detail

AIMS

Selection Criteria: Haney (1707)

Haney

Source ID	1707	File Num	39100-20-Haney	UTM Zone	10
Type	Gravel Pit	Service Area	6: Lower Mainland	UTM Easting	535700
Licensed	No	Tenure Status	Section 16	UTM Northing	5455500
Hectares	45.17	Dev Status	Active	NTS Map Num	92G/2
Location	3.0km north of Dewdney Trunk Rd on 256 St.				
Comments	Areas "B" & "C" are leased by the Operating Engineers. Bedrock was encountered at depths ranging from 6.1 metres to 17.7 metres at various locations within area "A". The exact profile is unknown at this time (Nov/07). The rock is competent granodiorite which, historically has been known to be suitable for rip rap or crushed products. Additional testing is required to confirm.				

Geotech Information (by Source Area)

A	Gravel	50	Degradation	86	Microdev - Coarse	4	Spec. Gravity - Coarse	2.800
	Sand	47	Sand Equiv	79	Microdev - Fine	7	Spec. Gravity - Fine	
	Fines	3	MgSO4 - Coarse	2	Microdev - Avg		Absorption - Coarse	0.6
	Oversize	8	MgSO4 - Fine	3	Petrographic Num		Absorption - Fine	1.5
B	Gravel	48	Degradation	86	Microdev - Coarse	5	Spec. Gravity - Coarse	
	Sand	50	Sand Equiv	80	Microdev - Fine	10	Spec. Gravity - Fine	
	Fines	2	MgSO4 - Coarse	4	Microdev - Avg		Absorption - Coarse	
	Oversize	5	MgSO4 - Fine	5	Petrographic Num		Absorption - Fine	
C	Gravel	46	Degradation		Microdev - Coarse	3	Spec. Gravity - Coarse	2.700
	Sand	50	Sand Equiv	60	Microdev - Fine	8	Spec. Gravity - Fine	
	Fines	4	MgSO4 - Coarse		Microdev - Avg		Absorption - Coarse	0.6
	Oversize		MgSO4 - Fine		Petrographic Num		Absorption - Fine	0.8
D	Gravel	51	Degradation		Microdev - Coarse	4	Spec. Gravity - Coarse	2.735
	Sand	48	Sand Equiv	77	Microdev - Fine	6	Spec. Gravity - Fine	2.701
	Fines	1	MgSO4 - Coarse		Microdev - Avg		Absorption - Coarse	0.6
	Oversize	8	MgSO4 - Fine		Petrographic Num		Absorption - Fine	1.1
E	Gravel		Degradation		Microdev - Coarse		Spec. Gravity - Coarse	
	Sand		Sand Equiv		Microdev - Fine		Spec. Gravity - Fine	
	Fines		MgSO4 - Coarse		Microdev - Avg		Absorption - Coarse	
	Oversize		MgSO4 - Fine		Petrographic Num		Absorption - Fine	

Legal Land Description

	Description
PIN	That part of the NW 1/4 of Sec. 25, Tp12, east of the Coast Meridian, together with that part of Lot 2 of Sec. 25, 26 and 35, NWD, PL65044, containing 45.17 ha.
File Num	2405057
Reserve Num	R072187
Property File	R-7207

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Haney**Development Information**

Pit Dev Plan Month/Year	Mar 2015	Dev Comments	Selective mining and/or sand rejection may be required to produce base coarse aggregates. Isolated pockets and/or lenses of silt or clay may be encountered throughout the property.
Update Required	No		The use of a primary crusher will be required for all crushing operations.
Last Evaluated Month/Year	Feb 2014		Area "B" final pit floor elevation shall generally follow the elevation of 256 Street. Excavation below this elevation requires approval from the Regional Gravel Manager.
		Dev History	Unknown, there is an existing pit face suggesting material was used at some point. Testing dates back to 1975, the Ministry finally acquired a Section 16 on a small portion sometime in the early 1990's.
		Constraints	Maple Ridge has a municipal by-law for the area which limits the volume of material that can be transported on local roads to 300,000 m3 per year. Watercourse/Riparian setbacks for protection of Red Legged Frogs and the Pacific Water Shrew both of which are endangered species. Contact Regional Gravel Manager when nearing water courses. Justice Institute contacts - Richard Epp 604 528-5525 or Blake Smith 604 528-5903 Operating Engineers contacts - Brad Randall 604 299-7764 or Gary Jabs 604-462-7165/604-839-8506
		FN Consult	FN, AIA and EOA completed

Material Quantities

Area	Proven	Potential	Approved Usage
A	435,000	622,000	25WGB, MAMA, SGSB
B	141,000	365,500	25WGB, MAMA, SGSB
C	364,400	183,600	25WGB, SGSB
D	21,600		25WGB, MAMA, WAB
E	877,500		

Current Aggregate Inventory

Material	Volume
PIT pit-run granular aggregate	-27,791

Exploration History

Month/Year	Completed by	Details
Jun 1976	MoT	Geophysical survey of an area considerably larger than the existing pit property.
Aug 1976	MoT	170 auger holes were completed to depths ranging from 0.6m to 15.8m. The testing covered a large area including the existing pit property.
May 1995	MoT	18 testpits were completed to an average depth of 4.5 metres. This testing covered a small portion of the existing pit property.
Nov 2007	MoT	66 test pits were excavated to an average depth of 6.0 metres. 7 Sonic drill holes were completed to depths ranging from 6.1 to 21 metres.
Jun 2009	MoTI	Four additional Sonic holes were completed to depths ranging from 14 to 32 metres and 27 test pits were dug to an average 5.5 metre depth
Feb 2014	MoT	5 testpits were completed to an average depth of 6 metres.

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Site Surveys

Month/Year	Type
Jun 1976	Other
Aug 1976	Sketch
May 1995	Sketch
Aug 2005	DEM (ortho)

Summary Information

Comments	<p>Areas "B" & "C" are leased by the Operating Engineers.</p> <p>Bedrock was encountered at depths ranging from 6.1 metres to 17.7 metres at various locations within area "A". The exact profile is unknown at this time (Nov/07). The rock is competent granodiorite which, historically has been known to be suitable for rip rap or crushed products. Additional testing is required to confirm.</p>
Site Reclamation	<p>Topsoil and overburden should be stockpiled separately and seeded to prevent erosion, these stockpiles are to be used for final pit reclamation.</p> <p>All interim sloping is to be left at 11/2H to 1V.</p> <p>Final sloping shall be 2H to 1V</p> <p>All reclamation works shall be in accordance with Ministry of Mines regulations and MoT Reclamation and Environmental Protection Handbook for Sand, Gravel and Quarry Operations in British Columbia.</p>
Geology/ Geomorphology	<p>Part of a large Glacio-Fluvial (Haney Outwash) complex consisting of Kame/Kettle and Esker deposits.</p> <p>The topography is undulating with stratified layers of cobbles, gravel, sand, silt and clay.</p> <p>Granodiorite bedrock is exposed at the east end of the property.</p>