

PROJECT: 2012 City of Whitehorse Groundwater Exploration				CLIENT: City of Whitehorse				TESTHOLE NO: TH04-12																																																																																																																																																																																																																																																																																																																																																																	
LOCATION: Mud Bog Pit N 6,728,865 E 497,335								PROJECT NO.: 60274244																																																																																																																																																																																																																																																																																																																																																																	
CONTRACTOR: Boart Longyear					METHOD: Sonic Drilling				ELEVATION (m): 666																																																																																																																																																																																																																																																																																																																																																																
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB	<input type="checkbox"/> SHELBY TUBE	<input checked="" type="checkbox"/> SPLIT SPOON	<input type="checkbox"/> BULK	<input checked="" type="checkbox"/> NO RECOVERY	<input type="checkbox"/> CORE																																																																																																																																																																																																																																																																																																																																																																		
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE	<input type="checkbox"/> GRAVEL	<input type="checkbox"/> SLOUGH	<input type="checkbox"/> GROUT	<input checked="" type="checkbox"/> CUTTINGS	<input type="checkbox"/> SAND																																																																																																																																																																																																																																																																																																																																																																		
<table><tr><th>DEPTH (m)</th><th>WELL INSTALLATION</th><th>SOIL SYMBOL</th><th>SOIL DESCRIPTION</th><th>SAMPLE TYPE</th><th>SAMPLE #</th><th>% RECOVERY</th><th>COMMENTS</th><th>ELEVATION (m)</th></tr><tr><td>0</td><td rowspan="41"></td><td rowspan="41"></td><td>FILL, sandy gravel with some loam, rootlets present. Dark brown, underlain by sandy gravel and concrete pieces.</td><td></td><td></td><td></td><td>Well Stickup: 0.86 m Well Casing: 152 mm OD Sch. 40 PVC.</td><td>665</td></tr><tr><td>1</td><td></td><td>S1</td><td>100</td><td></td><td>664</td></tr><tr><td>2</td><td></td><td></td><td></td><td></td><td>663</td></tr><tr><td>3</td><td></td><td></td><td></td><td></td><td>662</td></tr><tr><td>4</td><td></td><td></td><td>GRAVEL - Fine SAND, with some medium SAND.</td><td></td><td>S2</td><td>100</td><td></td><td>661</td></tr><tr><td>5</td><td></td><td></td><td></td><td></td><td></td><td></td><td>660</td></tr><tr><td>6</td><td></td><td></td><td></td><td></td><td></td><td></td><td>659</td></tr><tr><td>7</td><td></td><td></td><td></td><td></td><td>S3</td><td>100</td><td></td><td>658</td></tr><tr><td>8</td><td></td><td></td><td></td><td></td><td></td><td></td><td>657</td></tr><tr><td>9</td><td></td><td></td><td></td><td></td><td></td><td></td><td>656</td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td>S4</td><td>100</td><td></td><td>655</td></tr><tr><td>11</td><td></td><td></td><td></td><td></td><td></td><td></td><td>654</td></tr><tr><td>12</td><td></td><td></td><td></td><td></td><td></td><td></td><td>653</td></tr><tr><td>13</td><td></td><td></td><td></td><td></td><td>S5</td><td>100</td><td></td><td>652</td></tr><tr><td>14</td><td></td><td></td><td></td><td></td><td></td><td></td><td>651</td></tr><tr><td>15</td><td></td><td></td><td></td><td></td><td></td><td></td><td>650</td></tr><tr><td>16</td><td></td><td></td><td></td><td></td><td>S6</td><td>100</td><td></td><td>649</td></tr><tr><td>17</td><td></td><td></td><td></td><td></td><td></td><td></td><td>648</td></tr><tr><td>18</td><td></td><td></td><td></td><td></td><td>S7</td><td>100</td><td></td><td>647</td></tr><tr><td>19</td><td></td><td></td><td></td><td></td><td></td><td></td><td>646</td></tr><tr><td>20</td><td></td><td></td><td></td><td></td><td>S8</td><td>20</td><td>Poor recovery, v. saturated, material washed out of core barrel.</td><td>645</td></tr><tr><td>21</td><td></td><td></td><td></td><td></td><td></td><td></td><td>644</td></tr><tr><td>22</td><td></td><td></td><td></td><td></td><td>S9</td><td>100</td><td></td><td>643</td></tr><tr><td>23</td><td></td><td></td><td></td><td></td><td></td><td></td><td>642</td></tr><tr><td>24</td><td></td><td></td><td></td><td></td><td></td><td></td><td>641</td></tr><tr><td>25</td><td></td><td></td><td></td><td></td><td></td><td></td><td>640</td></tr><tr><td>26</td><td></td><td></td><td>- Becoming fine to medium sand at 25.5 m.</td><td></td><td>S10</td><td>100</td><td></td><td>639</td></tr><tr><td>27</td><td></td><td></td><td></td><td></td><td></td><td></td><td>638</td></tr><tr><td>28</td><td></td><td></td><td></td><td></td><td>S11</td><td>100</td><td></td><td>637</td></tr><tr><td>29</td><td></td><td></td><td></td><td></td><td></td><td></td><td>636</td></tr><tr><td>30</td><td></td><td></td><td></td><td></td><td></td><td></td><td>635</td></tr><tr><td>31</td><td></td><td></td><td>- Silty SAND to SILT with some SAND, trace GRAVEL. Clasts of silt included in core. "Ice Contact" material.</td><td></td><td>S12</td><td>100</td><td></td><td>634</td></tr><tr><td>32</td><td></td><td></td><td></td><td></td><td></td><td></td><td>633</td></tr><tr><td>33</td><td></td><td></td><td>GRAVEL with some silt, rounded to sub-rounded. Occasional cobbles present. Likely "Ice Contact" material.</td><td></td><td>S13</td><td>100</td><td></td><td>632</td></tr><tr><td>34</td><td></td><td></td><td></td><td></td><td></td><td></td><td>631</td></tr><tr><td>35</td><td></td><td></td><td></td><td></td><td>S14</td><td>20</td><td></td><td>630</td></tr><tr><td>36</td><td></td><td></td><td></td><td></td><td></td><td></td><td>Well Screen Details: Total Screen Length: 4.722 m Screen Outer Ø: 96.0 mm Screen Inner Ø: 85.0 mm Screen Cap: 10 cm PVC sch. 40 threaded end cap.</td><td>629</td></tr><tr><td>37</td><td></td><td></td><td></td><td></td><td>S15</td><td>100</td><td></td><td>628</td></tr><tr><td>38</td><td></td><td></td><td>- Silty SAND, very hard, dry.</td><td></td><td></td><td></td><td></td><td>627</td></tr><tr><td>39</td><td></td><td></td><td>- GRAVEL with some silt, rounded to sub-rounded. Occasional cobbles and sandy gravel.</td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>40</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												DEPTH (m)	WELL INSTALLATION	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	% RECOVERY	COMMENTS	ELEVATION (m)	0			FILL, sandy gravel with some loam, rootlets present. Dark brown, underlain by sandy gravel and concrete pieces.				Well Stickup: 0.86 m Well Casing: 152 mm OD Sch. 40 PVC.	665	1		S1	100		664	2					663	3					662	4			GRAVEL - Fine SAND, with some medium SAND.		S2	100		661	5							660	6							659	7					S3	100		658	8							657	9							656	10					S4	100		655	11							654	12							653	13					S5	100		652	14							651	15							650	16					S6	100		649	17							648	18					S7	100		647	19							646	20					S8	20	Poor recovery, v. saturated, material washed out of core barrel.	645	21							644	22					S9	100		643	23							642	24							641	25							640	26			- Becoming fine to medium sand at 25.5 m.		S10	100		639	27							638	28					S11	100		637	29							636	30							635	31			- Silty SAND to SILT with some SAND, trace GRAVEL. Clasts of silt included in core. "Ice Contact" material.		S12	100		634	32							633	33			GRAVEL with some silt, rounded to sub-rounded. Occasional cobbles present. Likely "Ice Contact" material.		S13	100		632	34							631	35					S14	20		630	36							Well Screen Details: Total Screen Length: 4.722 m Screen Outer Ø: 96.0 mm Screen Inner Ø: 85.0 mm Screen Cap: 10 cm PVC sch. 40 threaded end cap.	629	37					S15	100		628	38			- Silty SAND, very hard, dry.					627	39			- GRAVEL with some silt, rounded to sub-rounded. Occasional cobbles and sandy gravel.						40								
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ENVIRO (VAPOUR/F2/F3) BH-2012-09-27-CITY OF WHSE GW EXPLORATION GINT LOGS CL-60274244 GPJ AECOM BBY GDT 19/11/12

PROJECT: 2012 City of Whitehorse Groundwater Exploration				CLIENT: City of Whitehorse				TESTHOLE NO: TH04-12					
LOCATION: Mud Bog Pit N 6,728,865 E 497,335								PROJECT NO.: 60274244					
CONTRACTOR: Boart Longyear						METHOD: Sonic Drilling				ELEVATION (m): 666			
SAMPLE TYPE		<input checked="" type="checkbox"/> GRAB		<input type="checkbox"/> SHELBY TUBE		<input type="checkbox"/> SPLIT SPOON		<input type="checkbox"/> BULK		<input type="checkbox"/> NO RECOVERY		<input type="checkbox"/> CORE	
BACKFILL TYPE		<input checked="" type="checkbox"/> BENTONITE		<input type="checkbox"/> GRAVEL		<input type="checkbox"/> SLOUGH		<input type="checkbox"/> GROUT		<input type="checkbox"/> CUTTINGS		<input type="checkbox"/> SAND	

DEPTH (m)	WELL INSTALLATION	SOIL SYMBOL	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE #	% RECOVERY	COMMENTS	ELEVATION (m)	
40			- Pea GRAVEL, clean, trace silt, saturated, olive-grey coloured.		S16	100	Slot: 40-slot over 80-slot over 120-slot. Details: Threaded Veriper Stainless Steel Screen. Bottom of screen assembly placed at 41.39 m below ground surface.	625	
41									624
42									623
43									622
44									621
45			Sandy silt TILL, trace gravel, becoming dry.		S17	100		620	
46								619	
47								618	
48			- Becoming very hard, dry TILL at 46.5 m. Light grey with occasional saturated layers, gravelly.		S18	100		617	
49								616	
50			MILES CANYON BASALT. Hole terminated at 50.29 m in bedrock.		S19	100		615	
51								614	
52								613	
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77								588	
78								587	
79									
80									

AECOM Canada Ltd. 2251 2 nd Avenue Whitehorse, Yukon Y1A 7A2	LOGGED BY: Caleb Light	COMPLETION DEPTH: 50.29 m
	REVIEWED BY: Forest Pearson	COMPLETION DATE: 25/8/12
	PROJECT ENGINEER: Forest Pearson	