




**CLIENT** CITY OF WINNIPEG - WATER AND WASTE DEPARTMENT  
**PROJECT** CORDITE ROAD LANDFILL REMEDIAL WORK  
**SITE** Cordite Road Landfill  
**LOCATION** Cordite Road Landfill, Winnipeg, See Figure 1  
**DRILLING METHOD** Hitachi 200 Excavator

**JOB NO.** 07-107-07  
**GROUND ELEV.** 236.1 m  
**TOP OF PVC ELEV.**  
**WATER ELEV.**  
**DATE DRILLED** 31-May-07  
**UTMs (NAD83)** N 5,532,072  
 E 641,692

ELEV. (m)	DEPTH (m)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	SAMPLE TYPE NUMBER	FIELD HEADSPACE TEST Photoionizable Vapours (ppm) ●				
					250	500	750	1000	
					FIELD SOIL TEST (PETROFLAG) Diesel Fuel (ppm) ○				
					1000	2000	3000	4000	
235.80			<b>MIXED SILTY CLAY AND ORGANICS</b> - Grey, wet, soft.						
	0.5		<b>SILTY CLAY FILL</b> - Mottled tan and grey, wet, soft, intermediate to low plasticity.						
	1.0		- Brown, high plasticity below 0.91 m.						
	1.5		- Firm below 1.22 m.						
	2.0		- Mottled tan and grey, firm below 1.83 m.						
	2.5								
	3.0								
	3.5								
232.44			<b>MIXED ORGANICS</b> - Black, moist, firm, trace silt inclusions.						
231.68	4.5		<b>END OF TEST PIT AT 4.42 m.</b>						

VAPOURS (WITH N & E) P:\PROJECTS\2007\07-0107-07\ENV\LOGS\07-107-07 LOGS.GPJ

SAMPLE TYPE

CONTRACTOR  
Glenat Enterprises

INSPECTOR  
B. NICOLL

APPROVED  DATE 21/7/08

**CLIENT** CITY OF WINNIPEG - WATER AND WASTE DEPARTMENT  
**PROJECT** CORDITE ROAD LANDFILL REMEDIAL WORK  
**SITE** Cordite Road Landfill  
**LOCATION** Cordite Road Landfill, Winnipeg, See Figure 1  
**DRILLING METHOD** Hitachi 200 Excavator

**JOB NO.** 07-107-07  
**GROUND ELEV.** 232.7 m  
**TOP OF PVC ELEV.**  
**WATER ELEV.**  
**DATE DRILLED** 31-May-07  
**UTMs (NAD83)** N 5,532,086  
 E 641,699

ELEV. (m)	DEPTH (m)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	SAMPLE TYPE NUMBER	FIELD HEADSPACE TEST Photoionizable Vapours (ppm) ●			
					250	500	750	1000
					FIELD SOIL TEST (PETROFLAG) Diesel Fuel (ppm) ○			
					1000	2000	3000	4000
232.60			<b>ORGANICS</b> - Black, moist, firm.					
			<b>SILTY CLAY FILL</b> - Grey, wet, firm, high plasticity.					
232.29	0.5		<b>MIXED CRUSHED ROCK AND GRAVEL</b> - Hard, crushed limestone to 0.30 m in diameter, pit run gravel.					
	1.0		- Wet, water entering test pit at 0.91 to 1.83 m.					
	1.5							
230.92	2.0		<b>SILTY CLAY (CH)</b> - Grey, wet, stiff, high plasticity.					
230.31	2.5		<b>END OF TEST PIT AT 2.44 m.</b>					
	3.0							
	3.5							
	4.0							
	4.5							

VAPOURS (WITH N & E) P:\PROJECTS\2007\07-01\07-07\ENVA\LOGS\07-107-07 LOGS.GPJ

SAMPLE TYPE

**CONTRACTOR**  
Glenat Enterprises

**INSPECTOR**  
B. NICOLL

**APPROVED**

**DATE** 21/7/08

**CLIENT** CITY OF WINNIPEG - WATER AND WASTE DEPARTMENT  
**PROJECT** CORDITE ROAD LANDFILL REMEDIAL WORK  
**SITE** Cordite Road Landfill  
**LOCATION** Cordite Road Landfill, Winnipeg, See Figure 1  
**DRILLING METHOD** Hitachi 200 Excavator

**JOB NO.** 07-107-07  
**GROUND ELEV.** 232.4 m  
**TOP OF PVC ELEV.**  
**WATER ELEV.**  
**DATE DRILLED** 31-May-07  
**UTMs (NAD83)** N 5,532,114  
 E 641,638

ELEV. (m)	DEPTH (m)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	SAMPLE TYPE	NUMBER	FIELD HEADSPACE TEST Photoionizable Vapours (ppm) ●			
						250	500	750	1000
						FIELD SOIL TEST (PETROFLAG) Diesel Fuel (ppm) ○			
						1000	2000	3000	4000
232.07			<b>ORGANICS</b> - Black to grey, wet, soft.						
	0.5		<b>SILTY CLAY FILL</b> - Grey, wet, soft, intermediate to high plasticity. - Firm below 0.61 m.						
231.46	1.0		<b>GARBAGE</b> - Water entering test pit at 1.22 m.						
230.85	1.5		<b>END OF TEST PIT AT 1.52 m.</b>						
	2.0								
	2.5								
	3.0								
	3.5								
	4.0								
	4.5								

VAPOURS (WITH N & E) P:\PROJECTS\2007\07-01\07-07\ENVAL\LOGS\07-107-07 LOGS.GPJ

SAMPLE TYPE

CONTRACTOR  
**Glenat Enterprises**




INSPECTOR  
**B. NICOLL**

APPROVED DATE **21/7/08**



**CLIENT** CITY OF WINNIPEG - WATER AND WASTE DEPARTMENT  
**PROJECT** CORDITE ROAD LANDFILL REMEDIAL WORK  
**SITE** Cordite Road Landfill  
**LOCATION** Cordite Road Landfill, Winnipeg, See Figure 1  
**DRILLING METHOD** Hitachi 200 Excavator

**JOB NO.** 07-107-07  
**GROUND ELEV.** 238.1 m  
**TOP OF PVC ELEV.**  
**WATER ELEV.**  
**DATE DRILLED** 31-May-07  
**UTMs (NAD83)** N 5,532,091  
 E 641,627


ELEV. (m)	DEPTH (m)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	SAMPLE TYPE NUMBER	FIELD HEADSPACE TEST Photoionizable Vapours (ppm) ●				
					250	500	750	1000	
					FIELD SOIL TEST (PETROFLAG) Diesel Fuel (ppm) ○				
					1000	2000	3000	4000	
237.93			<b>ORGANICS</b> - Black, moist, soft to firm.						
	0.5		<b>SILTY CLAY FILL</b> - Brown, wet, soft, high plasticity.						
	1.0		- Grey, moist, stiff below 0.91 m.						
	1.5								
	2.0								
235.64	2.5		<b>GARBAGE</b> - Moist, firm.						
235.34			<b>END OF TEST PIT AT 2.74 m.</b>						
	3.0								
	3.5								
	4.0								
	4.5								

VAPOURS (WITH N & E) P:\PROJECTS\2007\07-0107-07\ENVA\LOGS\07-107-07 LOGS.GPJ

SAMPLE TYPE

CONTRACTOR  
Glenat Enterprises

INSPECTOR  
B. NICOLL

APPROVED 

DATE 21/7/08

**CLIENT** CITY OF WINNIPEG - WATER AND WASTE DEPARTMENT  
**PROJECT** CORDITE ROAD LANDFILL REMEDIAL WORK  
**SITE** Cordite Road Landfill  
**LOCATION** Cordite Road Landfill, Winnipeg, See Figure 1  
**DRILLING METHOD** Hitachi 200 Excavator

**JOB NO.** 07-107-07  
**GROUND ELEV.** 242.2 m  
**TOP OF PVC ELEV.**  
**WATER ELEV.**  
**DATE DRILLED** 31-May-07  
**UTMs (NAD83)** N 5,532,078  
 E 641,619

ELEV. (m)	DEPTH (m)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	SAMPLE TYPE NUMBER	FIELD HEADSPACE TEST Photoionizable Vapours (ppm) ●			
					250	500	750	1000
					FIELD SOIL TEST (PETROFLAG) Diesel Fuel (ppm) ○			
					1000	2000	3000	4000
241.89			<b>ORGANICS</b> - Grey, wet, soft.					
	0.5		<b>SILTY CLAY FILL</b> - Brown, moist, soft, intermediate plasticity.  - Grey, firm, high plasticity below 0.61 m.					
	1.0		- Black, crumbly, some to with organics below 1.22 m.					
240.67	1.5		<b>GARBAGE</b> - Moist, firm.					
240.36	2.0		<b>END OF TEST PIT AT 1.83 m.</b>					
	2.5							
	3.0							
	3.5							
	4.0							
	4.5							

VAPOURS (WITH N & E) \PROJECTS\2007\07-01\07-07\ENVALOGS\07-107-07 LOGS GP-J

SAMPLE TYPE



CONTRACTOR  
Glenat Enterprises

INSPECTOR  
B. NICOLL

APPROVED  DATE 21/7/08

**CLIENT** CITY OF WINNIPEG - WATER AND WASTE DEPARTMENT  
**PROJECT** CORDITE ROAD LANDFILL REMEDIAL WORK  
**SITE** Cordite Road Landfill  
**LOCATION** Cordite Road Landfill, Winnipeg, See Figure 1  
**DRILLING METHOD** Hitachi 200 Excavator

**JOB NO.** 07-107-07  
**GROUND ELEV.** 240.6 m  
**TOP OF PVC ELEV.**  
**WATER ELEV.**  
**DATE DRILLED** 31-May-07  
**UTMs (NAD83)** N 5,532,118  
 E 641,552

ELEV. (m)	DEPTH (m)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	SAMPLE TYPE	NUMBER	FIELD HEADSPACE TEST			
						Photonizable Vapours (ppm) ●			
						250	500	750	1000
						FIELD SOIL TEST (PETROFLAG)			
						Diesel Fuel (ppm) ○			
						1000	2000	3000	4000
			<b>SILTY CLAY FILL</b> - Grey/brown, wet, soft, intermediate plasticity, crumbly.  - Brown below 0.30 m.  - Grey, some garbage from 0.61 to 1.22 m.  - Moist, firm, high plasticity below 1.22 m.						
238.19	2.5		<b>GARBAGE</b> - Moist, firm.						
237.89	2.74		<b>END OF TEST PIT AT 2.74 m.</b>						
	3.0								
	3.5								
	4.0								
	4.5								

VAPOURS (WITH N & E) P:\PROJECTS\2007\07-01\07-07\ENVAL\LOGS\07-107-07 LOGS.GPJ

SAMPLE TYPE

**CONTRACTOR**  
Glenat Enterprises

**INSPECTOR**  
B. NICOLL

**APPROVED**  **DATE** 21/7/08



**CLIENT** CITY OF WINNIPEG - WATER AND WASTE DEPARTMENT  
**PROJECT** CORDITE ROAD LANDFILL REMEDIAL WORK  
**SITE** Cordite Road Landfill  
**LOCATION** Cordite Road Landfill, Winnipeg, See Figure 1  
**DRILLING METHOD** Hitachi 200 Excavator

**JOB NO.** 07-107-07  
**GROUND ELEV.** 234.8 m  
**TOP OF PVC ELEV.**  
**WATER ELEV.**  
**DATE DRILLED** 31-May-07  
**UTMs (NAD83)** N 5,532,138  
 E 641,562

ELEV. (m)	DEPTH (m)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	SAMPLE TYPE NUMBER	FIELD HEADSPACE TEST Photoionizable Vapours (ppm) ●				
					250	500	750	1000	
					FIELD SOIL TEST (PETROFLAG) Diesel Fuel (ppm) ○				
					1000	2000	3000	4000	
234.66			<b>ORGANICS</b> - Black, wet, soft to firm.						
	0.5		<b>SILTY CLAY FILL</b> - Brown, wet, soft, intermediate plasticity, crumbly.						
	1.0								
	1.5		- Grey, moist, firm, high plasticity below 1.22 m.						
	2.0		- Tan, wet, some silt from 1.52 to 1.68 m.						
	2.5		- Brown below 1.83 m.						
231.46	3.5		<b>GARBAGE</b> - Firm.						
231.15			<b>END OF TEST PIT AT 3.66 m.</b>						
	4.0								
	4.5								

VAPOURS (WITH N & E) P:\PROJECTS\2007\07-0107-07\ENVAL\OGS\07-107-07 LOGS.GPJ

SAMPLE TYPE

CONTRACTOR  
Glenat Enterprises

INSPECTOR  
B. NICOLL




APPROVED



DATE 21/7/08

**CLIENT** CITY OF WINNIPEG - WATER AND WASTE DEPARTMENT  
**PROJECT** CORDITE ROAD LANDFILL REMEDIAL WORK  
**SITE** Cordite Road Landfill  
**LOCATION** Cordite Road Landfill, Winnipeg, See Figure 1  
**DRILLING METHOD** Hitachi 200 Excavator

**JOB NO.** 07-107-07  
**GROUND ELEV.** 232.3 m  
**TOP OF PVC ELEV.**  
**WATER ELEV.**  
**DATE DRILLED** 31-May-07  
**UTMs (NAD83)** N 5,532,150  
 E 641,568

ELEV. (m)	DEPTH (m)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	SAMPLE TYPE	NUMBER	FIELD HEADSPACE TEST			
						Photoionizable Vapours (ppm) ●			
						250	500	750	1000
						FIELD SOIL TEST (PETROFLAG)			
						Diesel Fuel (ppm) ○			
						1000	2000	3000	4000
			<b>SILTY CLAY FILL</b> - Brown, wet, soft, high plasticity.						
	0.5		- Black, dry, hard, trace to some gravel, trace organics, trace cinders below 0.46 m.						
231.43									
231.27	1.0		<b>ORGANICS</b> - Black, wet, soft to firm.						
			<b>SILTY CLAY</b> - Grey, wet, firm. - Waste layer on up slope side of test pit at 1.22 to 1.37 m.						
	1.5								
	2.0								
230.18			<b>END OF TEST PIT AT 2.13 m.</b>						
	2.5								
	3.0								
	3.5								
	4.0								
	4.5								

VAPOURS (WITH N & E) P:\PROJECTS\2007\07-01\07-07\ENVALOGS\07-107-07 LOGS.GPJ

SAMPLE TYPE

CONTRACTOR  
Glenat Enterprises

INSPECTOR  
B. NICOLL

APPROVED  DATE 21/7/08



**CLIENT** CITY OF WINNIPEG - WATER AND WASTE DEPARTMENT  
**PROJECT** CORDITE ROAD LANDFILL REMEDIAL WORK  
**SITE** Cordite Road Landfill  
**LOCATION** Cordite Road Landfill, Winnipeg, See Figure 1  
**DRILLING METHOD** Hitachi 200 Excavator

**JOB NO.** 07-107-07  
**GROUND ELEV.** 238.4 m  
**TOP OF PVC ELEV.**  
**WATER ELEV.**  
**DATE DRILLED** 31-May-07  
**UTMs (NAD83)** N 5,532,064  
 E 641,689

ELEV. (m)	DEPTH (m)	GRAPHICS	DESCRIPTION AND CLASSIFICATION	SAMPLE TYPE	NUMBER	FIELD HEADSPACE TEST			
						Photonizable Vapours (ppm) ●			
						250	500	750	1000
						FIELD SOIL TEST (PETROFLAG)			
						Diesel Fuel (ppm) ○			
						1000	2000	3000	4000
	0.5		<b>SILTY CLAY FILL</b> - Grey, wet, soft, high plasticity, crumbly, with tan silt pockets to 7.6 cm in size.						
	1.0								
	1.5		- Black, organic smell at 1.37 to 1.52 m. - Brown, firm below 1.52 m.						
236.45	2.0		- Black, some to with organics below 1.82 m. <b>GARBAGE</b>						
236.14	2.29		<b>END OF TEST HOLE AT 2.29 m.</b>						
	2.5								
	3.0								
	3.5								
	4.0								
	4.5								

VAPOURS (WITH N & E) P:\PROJECTS\2007\07-01\07-07\ENV\LOGS\07-107-07 LOGS.GPJ

SAMPLE TYPE

CONTRACTOR  
Glenat Enterprises

INSPECTOR  
B. NICOLL

APPROVED DATE 21/7/08