



FINAL REPORT

CA14953-FEB20 R1

Client: Express Dredge Services

Project: Puslinch Lake Soil

Project Manager: David Taliano

Samplers: Erin Mackey

PACKAGE: REG153 - Acid Rock Drainage (SOIL)

Sample Number 8
Sample Name 1
Sample Matrix Soil
Sample Date 26/02/2020

L1 = REG153 / SOIL / COARSE - TABLE 3 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 3 - Residential/Parkland - UNDEFINED

Parameter	Units	RL	L1	L2	Result
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Acid Rock Drainage

Total Organic Carbon	%	0.025			4.44
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PACKAGE: REG153 - General Chemistry (SOIL)

Sample Number 8
Sample Name 1
Sample Matrix Soil
Sample Date 26/02/2020

L1 = REG153 / SOIL / COARSE - TABLE 3 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 3 - Residential/Parkland - UNDEFINED

Parameter	Units	RL	L1	L2	Result
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General Chemistry

Calculated Total Nitrogen	µg/g	0.5			989
Total Kjeldahl Nitrogen	µg/g	0.01			970
Ammonia+Ammonium (N)	as N %	0.01			< 0.01

PACKAGE: REG153 - Hydrides (SOIL)

Sample Number 8
Sample Name 1
Sample Matrix Soil
Sample Date 26/02/2020

L1 = REG153 / SOIL / COARSE - TABLE 3 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 3 - Residential/Parkland - UNDEFINED

Parameter	Units	RL	L1	L2	Result
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Hydrides

Arsenic	µg/g	0.5	18	18	3.2
Selenium	µg/g	0.7	5.5	2.4	< 0.7



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PACKAGE: **REG153 - Metals and Inorganics (SOIL)**

Sample Number 8
Sample Name 1
Sample Matrix Soil
Sample Date 26/02/2020

L1 = REG153 / SOIL / COARSE - TABLE 3 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 3 - Residential/Parkland - UNDEFINED

Parameter	Units	RL	L1	L2	Result
Metals and Inorganics					
Moisture Content	%	-			42.9
Nitrite (as N)	as N µg/g	0.1			0.1
Nitrate (as N)	as N µg/g	0.2			19
Calcium	µg/g	3			110000
Cadmium	µg/g	0.02	1.9	1.2	0.37
Chromium	µg/g	0.5	160	160	9.0
Cobalt	µg/g	0.01	80	22	3.7
Copper	µg/g	0.1	230	140	9.8
Lead	µg/g	0.1	120	120	26
Molybdenum	µg/g	0.1	40	6.9	0.7
Nickel	µg/g	0.5	270	100	7.3
Zinc	µg/g	0.7	340	340	120



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PACKAGE: **REG153 - Other (ORP)** (SOIL)

Sample Number 8

Sample Name 1

Sample Matrix Soil

Sample Date 26/02/2020

L1 = REG153 / SOIL / COARSE - TABLE 3 - Industrial/Commercial - UNDEFINED

L2 = REG153 / SOIL / COARSE - TABLE 3 - Residential/Parkland - UNDEFINED

Parameter	Units	RL	L1	L2	Result
Other (ORP)					
Mercury	µg/g	0.05	3.9	0.27	< 0.05
Sodium Adsorption Ratio	---	0.2	12	5	< 0.2
SAR Calcium	mg/L	0.09			5.6
SAR Magnesium	mg/L	0.02			0.62
SAR Sodium	mg/L	0.15			0.22
Conductivity	mS/cm	0.002	1.4	0.7	0.23