

T: +1 (780) 438-5522 F: +1 (780) 434-8586 E: info.Edmonton@element.com W: www.element.com

Report Transmission Cover Page

Bill To: The Black Dirt Company

Box 3130

Spruce Grove, AB, Canada

T7X 3A5

Attn: Accounts Payable

Sampled By: Company: Project ID:

Project Name:

Project Location: LSD:

P.O.: Proj. Acct. code: Lot ID: 1724057

Control Number:

Date Received: Apr 9, 2024
Date Reported: Apr 23, 2024
Report Number: 2995706
Report Type: Final Report

Contact Company Address

Accounts Payable The Black Dirt Company Box 3130

Spruce Grove, AB T7X 3A5

Phone: (780) 962-8220 Fax: (780) 962-8215

Email: info@blackdirtcompany.com

 Delivery
 Format
 Deliverables

 Email - Merge
 PDF
 COC / Invoice

Jaclyn McGowan The Black Dirt Company

Edmonton, AB

Phone: (000) 000-0000 Fax:
Email: jaclyn.mcgowan@blackdirtcompany.com

 Delivery
 Format
 Deliverables

 Email
 PDF
 COC / Test Report

 Email
 Standard Crosstab With Tabs
 Test Report

 Email - Merge
 PDF
 COA

Ryan Townsend The Black Dirt Company

Spruce Grove, AB

Phone: (780) 962-8220 Fax:
Email: ryan.townsend@blackdirtcompany.com

 Delivery
 Format
 Deliverables

 Email
 PDF
 COC / Test Report

 Email
 Standard Crosstab With Tabs
 Test Report

Notes To Clients:

Apr 11, 2024 - weed seed analysis was performed by a subcontract laboratory. See attached 1 page reports 1184382-01, 1184383-01,1184384-01, & 1184385-01

Apr 22, 2024 - Sample 1724057-5; 9270485: Caution - Note for Clubroot analysis on identified samples: Although results are below the method
detection limits (1000 spores/g), DNA amplification was measured, suggesting low concentrations of pathogen spores may be present.
Caution should be taken.

The information contained on this and all other pages transmitted, is intended for the addressee only and is considered confidential.

If the reader is not the intended recipient, you are hereby notified that any use, dissemination, distribution or copy of this transmission is strictly prohibited.

If you receive this transmission by error, or if this transmission is not satisfactory, please notify us by telephone.



T: +1 (780) 438-5522 F: +1 (780) 434-8586 F: info Edmonton@clore

E: info.Edmonton@element.com

W: www.element.com

Analytical Report

Bill To: The Black Dirt Company

Box 3130

Spruce Grove, AB, Canada

T7X 3A5

Attn: Accounts Payable

Sampled By: Company: Project ID:

Project Name:

Project Location: LSD:

P.O.:

Proj. Acct. code:

Lot ID: 1724057

Control Number:

Date Received: Apr 9, 2024
Date Reported: Apr 23, 2024
Report Number: 2995706
Report Type: Final Report

Reference Number 1724057-5 Sample Date Apr 09, 2024 Sample Time NA

Sample Location
Sample Description RR265 / GARDEN

MIX

Matrix Soil

		Matrix	Soil			
Analyte		Units	Results	Results	Results	Nominal Detectio Limit
Classification						
Organic Matter	Calculated Value	%	8.45			0.04
Carbon	Total Organic	%	4.23			0.04
Metals Strong Acid Diges	stion					
Antimony	Strong Acid Extractable	mg/kg	0.2			0.2
Arsenic	Strong Acid Extractable	mg/kg	5.7			0.2
Barium	Strong Acid Extractable	mg/kg	134			1
Beryllium	Strong Acid Extractable	mg/kg	0.3			0.1
Cadmium	Strong Acid Extractable	mg/kg	0.19			0.01
Chromium	Strong Acid Extractable	mg/kg	8.6			0.5
Cobalt	Strong Acid Extractable	mg/kg	6.6			0.1
Copper	Strong Acid Extractable	mg/kg	12			1
Lead	Strong Acid Extractable	mg/kg	7.3			0.1
Mercury	Strong Acid Extractable	mg/kg	< 0.05			0.05
Molybdenum	Strong Acid Extractable	mg/kg	<1.0			1.0
Nickel	Strong Acid Extractable	mg/kg	15.0			0.5
Selenium	Strong Acid Extractable	mg/kg	0.4			0.3
Silver	Strong Acid Extractable	mg/kg	<0.1			0.1
Thallium	Strong Acid Extractable	mg/kg	0.11			0.05
Tin	Strong Acid Extractable	mg/kg	<1.0			1.0
Uranium	Strong Acid Extractable	mg/kg	1.0			0.5
Vanadium	Strong Acid Extractable	mg/kg	14.7			0.1
Zinc	Strong Acid Extractable	mg/kg	60			1
Physical and Aggregate	Properties					
Texture	•		Loam			
Sand	50 μm - 2 mm	% by weight	43			0.1
Silt	2 μm - 50 μm	% by weight	41			0.1
Clay	<2 μm	% by weight	16			0.1
Salinity	·					
Electrical Conductivity	Saturated Paste	dS/m	3.81			0.01
SAR	Saturated Paste		1.2			
% Saturation		%	70			
Calcium	Saturated Paste	mg/kg	371			
Magnesium	Saturated Paste	mg/kg	66			
Sodium	Saturated Paste	mg/kg	81			
Potassium	Saturated Paste	mg/kg	120			
Chloride	Saturated Paste	mg/L	367			3
Chloride	Saturated Paste	mg/kg	258			
Sulfate (SO4)	Saturated Paste	mg/kg	682			



7217 Roper Road NW Edmonton, Alberta T6B 3J4, Canada

T: +1 (780) 438-5522 F: +1 (780) 434-8586

E: info.Edmonton@element.com

W: www.element.com

Analytical Report

Bill To: The Black Dirt Company

Box 3130

Spruce Grove, AB, Canada

T7X 3A5

Attn: Accounts Payable

Sampled By: Company: Project ID:

Project Name:

Project Location:

LSD: P.O.:

Proj. Acct. code:

Lot ID: 1724057

Control Number:

Date Received: Apr 9, 2024 Date Reported: Apr 23, 2024 Report Number: 2995706 Report Type: Final Report

Reference Number 1724057-5

> Sample Date Sample Time

Apr 09, 2024

NA

Sample Location

Sample Description RR265 / GARDEN

MIX

Matrix Soil

		WIGHTA	COII			
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Salinity - Continued						
Boron	Saturated Paste	mg/L	<0.5			0.05
TGR	Saturated Paste	T/ac	<0.1			
Soil Acidity						
pH	1:2 Soil:Water	рН	7.6			
pH	1:2 Soil:CaCl2 sol.	рН	7.4			
Electrical Conductivity	1:2 Soil:Water	dS/m at 25 °C	1.20			0.01
CCE	as CaCO3	%	1.93			0.2
Water Soluble Parameters						
Chromium (VI)	Dry Weight	mg/kg	<0.05			0.05
Clubroot Analysis						
Plasmodiophora brassicae	Clubroot Pathogen	spores/g	<1000			1000
Plasmodiophora brassicae	Detected/ Not Detected	spores/g	Caution - See Note			1000
Subcontracted Analysis		_				
Subcontractor Report Id	Biovision		1184385-01			
·						



T: +1 (780) 438-5522 F: +1 (780) 434-8586

E: info.Edmonton@element.com

W: www.element.com

Methodology and Notes

Bill To: The Black Dirt Company

Box 3130

Spruce Grove, AB, Canada

T7X 3A5

Attn: Accounts Payable

Sampled By: Company:

Proj. Acct. code:

Project ID:

LSD:

P.O.:

Project Name:

Project Location:

Lot ID: 1724057

Control Number:

Date Received: Apr 9, 2024 Date Reported: Apr 23, 2024 Report Number: 2995706

Report Type: Final Report

Method of Analysis

method of Analysis					
Method Name	Reference		Method	Date Analysis Started	Location
1:5 Water Soluble Extraction	APHA	*	Colorimetric Method, 3500-Cr B	Apr 9, 2024	Element Edmonton - Roper Road
1:5 Water Soluble Extraction	McKeague	*	Soluble Salts in Extracts of 1:5 Soil:Water Mixtures, 3.23	Apr 9, 2024	Element Edmonton - Roper Road
Calcium Carbonate in Soil (Dual pH)	Comm. Soil Sci. Pl. Anal.	*	Improvement to Two Routine Methods for CaCO3 in Soil, Vol 28, 1997	Apr 10, 2024	Element Edmonton - Roper Road
Clubroot	Plant Path	*	Wallenhammer et al 2012. In-Field distribution of Plasmodiophora brassicae measured using real-time PCR., Plant Pathology	Apr 22, 2024	Element Calgary
Metals ICP (Hot Block) in soil	EPA	*	Sample Preparation Procedure for Spectrochemical Determination of Total Recoverable Elements, October 1999, 200.2	Apr 10, 2024	Element Edmonton - Roper Road
Metals ICP (Hot Block) in soil	US EPA	*	Determination of Trace Elements in Waters and Wastes by ICP-MS, 200.8	Apr 10, 2024	Element Edmonton - Roper Road
Particle Size Analysis - GS	Carter	*	Hydrometer Method, 55.3	Apr 9, 2024	Element Edmonton - Roper Road
pH and Conductivity in general soil 1:2	McKeague	*	1:2 Soil:Water Ratio, 4.12	Apr 9, 2024	Element Edmonton - Roper Road
pH and Conductivity in general soil 1:2	Soil & Environ. Anal.	*	Particle Size Analysis, Direct Method, Chapter 7	Apr 9, 2024	Element Edmonton - Roper Road
pH by CaCl2 (1:2 ratio) in soil	McKeague	*	pH in 0.01M Calcium Chloride, 3.11	Apr 9, 2024	Element Edmonton - Roper Road
Saturated Paste in General Soil	APHA	*	Automated Ferricyanide Method, 4500-CI-E	Apr 9, 2024	Element Edmonton - Roper Road
Saturated Paste in General Soil	Carter	*	Electrical Conductivity and Soluble Ions, Chapter 15	Apr 9, 2024	Element Edmonton - Roper Road
Sublet to Biovision	Ext. Lab		See attached test report,	Apr 10, 2024	SGS Biovision
Total Carbon, Nitrogen in Soil by Leco Combustion (VAN)	SSSA Book Series 5	*	Total Carbon, Organic Carbon, and Organic Matter, Ch 34	Apr 17, 2024	Element Vancouver

* Reference Method Modified

References

APHA Standard Methods for the Examination of Water and Wastewater

Soil Sampling and Methods of Analysis. Carter

Comm. Soil Sci. Pl. Communications in Soil Science and Plant Analysis Environmental Protection Agency Test Methods - US **EPA**

Ext. Lab **External Laboratory**

Manual on Soil Sampling and Methods of Analysis McKeague

Plant Path Plant Pathology

Soil & Environ. Anal. Soil and Environmental Analysis: Physical Methods

SSSA Book Series 5 Methods of Soil Analysis, Part 3

US EPA US Environmental Protection Agency Test Methods





T: +1 (780) 438-5522 F: +1 (780) 434-8586

E: info.Edmonton@element.com

W: www.element.com

Methodology and Notes

Bill To: The Black Dirt Company

Box 3130

Spruce Grove, AB, Canada

T7X 3A5

Attn: Accounts Payable

Sampled By: Company: 17A 3A3

P.O.: Proj. Acct. code:

Project ID:

LSD:

Project Name:

Project Location:

Lot ID: 1724057

Control Number:

Date Received: Apr 9, 2024
Date Reported: Apr 23, 2024
Report Number: 2995706
Report Type: Final Report

Comments:

• Apr 11, 2024 - weed seed analysis was performed by a subcontract laboratory. See attached 1 page reports 1184382-01, 1184383-01,1184384-01, & 1184385-01

Apr 22, 2024 - Sample 1724057-5; 9270485: Caution - Note for Clubroot analysis on identified samples: Although results are below the method
detection limits (1000 spores/g), DNA amplification was measured, suggesting low concentrations of pathogen spores may be present.
Caution should be taken.

Please direct any inquiries regarding this report to our Client Services group.

Results relate only to samples as submitted.

The test report shall not be reproduced except in full, without the written approval of the laboratory.



Submitted By:

Element (Edm) 7217 Roper Road NW Edmonton, AB CA T6B 3J4

P 780.438.5522

Work Order 1184385-01

Received 4/11/2024 Completed 4/11/2024

Tested By: SGS Canada Inc. Unit 310, 280 Portage Close Sherwood Park, Alberta T8H 2R6

P 1 (780) 436-8822 ** CFIA Acc #1172

Sample of: Soil

Designated: POC148494

Sample ID: 1724057-5, 265 Garder Mix



REPORT OF ANALYSIS

*Soil Seed Analysis - 50g Completed: 4/11/2024 Soil Method ОТН

Lamb's-quarters 13

Goosefoot 3

Stinkweed 2

Wild Buckwheat 1

Canola 1

Canada Thistle 1

Kochia 2

Stinkweed 2

Rubus spp. 1

1. Method(s) used for promoting germination of dormant seed

*Advisory test - - Method not CFIA M&P prescribed

"Accredited by CFIA to conduct tests in accordance with the laboratory's scope of accreditation and the Canadian Methods and Procedures for Testing Seed

This document is issued by the Company under its General Conditions of Service accessible at https://www.sgs.com/en/terms-and-conditions. Attention is drawn to the limitation of liability, indemnification, and jurisdiction issued defined therein. Any other holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention and only within the limit of the Client's instructions, if any unauthorized attention, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Sample of Soil Work Order 1184385-01 Page 1