

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

Bill To: Attn: Sampled By:	Smission Cover Page The Black Dirt Company Box 3130 Spruce Grove, AB, Canada T7X 3A5 Accounts Payable RYAN TOWNSEND THE BLACK DIRT COMPANY	Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code:	Lot ID: Control Number: Date Received: Date Reported: Report Number:	Apr 30, 2023
0	0			

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			
Charlene Hinkel	The Black Dirt Company	300 Saskatchewan Ave			
		Spruce Grove, AB			
		Phone: (780) 962-8220 Fax: (780) 962-8215			
		Email: charlene.hinkel@blackdirtcompany.com			
Delivery	Format	Deliverables			
Email	PDF	COC / Test Report			
Email	Standard Crosstab With Tabs	Test Report			
Email - Merge	PDF	COA			
Email - Merge	PDF	COC / Invoice			

Notes To Clients:

• Apr 21, 2023 - Clubroot and Seed Soil Count analysis was performed by a subcontract laboratory. See attached 4 page report 1158181, 1158182, 1158189, 1158182.

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Analyte

Carbon

Classification Organic Matter

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Analytical Report Project ID: Bill To: The Black Dirt Company Lot ID: 1644520 Project Name: Box 3130 Control Number: Project Location: Spruce Grove, AB, Canada Date Received: Apr 17, 2023 LSD: T7X 3A5 Date Reported: Apr 30, 2023 P.O.: Attn: Accounts Payable 2862714 Report Number: Proj. Acct. code: Sampled By: RYAN TOWNSEND Company: THE BLACK DIRT COMPANY **Reference Number** 1644520-2 Sample Date Apr 17, 2023 Sample Time NA Sample Location **Sample Description** WEST WIND / TOPSOIL Soil Matrix Nominal Detection Units Results Results Results Limit Calculated Value % 2.89 0.04 Total Organic % 0.04 1.44

	i e ten e i genne	, .		
Metals Strong Acid Dige	stion			
Antimony	Strong Acid Extractable	mg/kg	<0.2	0.2
Arsenic	Strong Acid Extractable	mg/kg	3.9	0.2
Barium	Strong Acid Extractable	mg/kg	81	1
Beryllium	Strong Acid Extractable	mg/kg	0.3	0.1
Cadmium	Strong Acid Extractable	mg/kg	0.08	0.01
Chromium	Strong Acid Extractable	mg/kg	6.5	0.5
Cobalt	Strong Acid Extractable	mg/kg	4.3	0.1
Copper	Strong Acid Extractable	mg/kg	6.3	1
Lead	Strong Acid Extractable	mg/kg	4.9	0.1
Mercury	Strong Acid Extractable	mg/kg	<0.05	0.05
Molybdenum	Strong Acid Extractable	mg/kg	<1.0	1
Nickel	Strong Acid Extractable	mg/kg	10.1	0.5
Selenium	Strong Acid Extractable	mg/kg	<0.29	0.3
Silver	Strong Acid Extractable	mg/kg	<0.10	0.1
Thallium	Strong Acid Extractable	mg/kg	0.06	0.05
Tin	Strong Acid Extractable	mg/kg	<1.0	1
Uranium	Strong Acid Extractable	mg/kg	1.0	0.5
Vanadium	Strong Acid Extractable	mg/kg	11.9	0.1
Zinc	Strong Acid Extractable	mg/kg	29	1
Physical and Aggregate	Properties			
Texture			Sandy Loam	
Sand	50 µm - 2 mm	% by weight	64	0.1
Silt	2 µm - 50 µm	% by weight	23	0.1
Clay	<2 µm	% by weight	13	0.1
Salinity				
Electrical Conductivity	Saturated Paste	dS/m	1.89	0.01
SAR	Saturated Paste		0.5	
% Saturation		%	84	
Calcium	Saturated Paste	mg/kg	316	
Magnesium	Saturated Paste	mg/kg	39.5	
Sodium	Saturated Paste	mg/kg	32	
Potassium	Saturated Paste	mg/kg	3	
Chloride	Saturated Paste	mg/L	30	3
Chloride	Saturated Paste	mg/kg	25	
Sulfate (SO4)	Saturated Paste		872	

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Analytical R	eport					
Bill To: Attn: Sampled By: Company:		Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code:		Lot ID: Control Number: Date Received: Date Reported: Report Number:	Apr 30, 2023	
		Reference Number	1644520-2			
		Sample Date	Apr 17, 2023			
		Sample Time	NA			
		Sample Location				
		Sample Description	WEST WIND / TOPSOIL			
		Matrix	Soil			
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Salinity - Contin	nued					
Boron	Saturated Paste	mg/L	0.09			0.05

TGR Saturated Paste T/ac <0.1 Soil Acidity 1:2 Soil:Water pН pН 7.6 pН 1:2 Soil:CaCl2 sol. pН 7.6 **Electrical Conductivity** 1:2 Soil:Water dS/m at 25 °C 0.87 0.01 CCE as CaCO3 % 0.62 0.2 Water Soluble Parameters Chromium (VI) Dry Weight mg/kg < 0.05 0.05 **Subcontracted Analysis** Subcontractor Report Id Biovision 1158181

Mol

Benjamin Morris, B.Sc **Operations Manager**

Approved by:

Data have been validated by Analytical Quality Control and Element's Integrated Data Validation System (IDVS). Generation and distribution of the report, and approval by the digitized signature above, are performed through a secure and controlled automatic process.



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Methodology and Notes

Bill To:	The Black Dirt Company Box 3130 Spruce Grove, AB, Canada T7X 3A5	Project ID: Project Name: Project Location: LSD:
Attn:	Accounts Payable	P.O.:
Sampled By:	RYAN TOWNSEND	Proj. Acct. code:
Company:	THE BLACK DIRT COMPANY	

Method of Analysis

Lot ID: 1644520 Control Number: Date Received: Apr 17, 2023

Date Reported: Apr 30, 2023 Report Number: 2862714

Method Name	Reference		Method	Date Analysis Started	Location
1:5 Water Soluble Extraction	АРНА	*	Colorimetric Method, 3500-Cr B	Apr 18, 2023	Element Edmonton - Roper Road
1:5 Water Soluble Extraction	McKeague		Soluble Salts in Extracts of 1:5 Soil:Water Mixtures, 3.23	Apr 18, 2023	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 18, 2023	Element Edmonton - Roper Road
Metals ICP (Hot Block) in soil	EPA		Sample Preparation Procedure for Spectrochemical Determination of Total Recoverable Elements, October 1999, 200.2	Apr 18, 2023	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 18, 2023	Element Edmonton - Roper Road
Particle Size Analysis - GS	Carter	*	Hydrometer Method, 55.3	Apr 17, 2023	Element Edmonton - Roper Road
pH and Conductivity in general soil 1:2	McKeague	*	1:2 Soil:Water Ratio, 4.12	Apr 18, 2023	Element Edmonton - Roper Road
pH and Conductivity in general soil 1:2	Soil & Environ. Anal.		Particle Size Analysis, Direct Method, Chapter 7	Apr 18, 2023	Element Edmonton - Roper Road
pH by CaCl2 (1:2 ratio) in soil	McKeague	*	pH in 0.01M Calcium Chloride, 3.11	Apr 18, 2023	Element Edmonton - Roper Road
Saturated Paste in General Soil	APHA	*	Automated Ferricyanide Method, 4500-CI-E	Apr 17, 2023	Element Edmonton - Roper Road
Saturated Paste in General Soil	Carter		Electrical Conductivity and Soluble lons, Chapter 15	Apr 17, 2023	Element Edmonton - Roper Road
Sublet to Biovision	Ext. Lab		See attached test report,	Apr 18, 2023	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 24, 2023	Element Vancouver

* Reference Method Modified

References

APHA	Standard Methods for the Examination of Water and Wastewater
Carter	Soil Sampling and Methods of Analysis.
Comm. Soil Sci. Pl.	Communications in Soil Science and Plant Analysis
EPA	Environmental Protection Agency Test Methods - US
Ext. Lab	External Laboratory
McKeague	Manual on Soil Sampling and Methods of Analysis
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

Comments:

• Apr 21, 2023 - Clubroot and Seed Soil Count analysis was performed by a subcontract laboratory. See attached 4 page report 1158181, 1158182, 1158189, 1158182.



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Methodology and Notes

Bill To:	The Black Dirt Company	Ρ
	Box 3130	Ρ
	Spruce Grove, AB, Canada	Ρ
	T7X 3A5	L
Attn:	Accounts Payable	Ρ
Sampled By:	RYAN TOWNSEND	Ρ
Company:	THE BLACK DIRT COMPANY	

Project ID: Project Name: Project Location: LSD: P.O.: Proj. Acct. code:

Lot ID: 1644520

Control Number: Date Received: Apr 17, 2023 Date Reported: Apr 30, 2023 Report Number: 2862714

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 1158181-01

Received 4/19/2023 Completed 4/21/2023

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

Sherwood Park, Alberta T8H 2R6 P 1 (780) 436-8822 ** CFIA Acc #1172

Sample of: Soil Designated: POC142993 Sample ID: 1644520-1, Peavey Mart Topsoil



Member of the SGS Group (Société Générale de Surveillance)

REPORT OF ANALYSIS

*Soil Seed Analysis 50g	Completed: 4/20/2023	Method OTH
Goosefoot 4		
Lamb's-quarters 4		
Stinkweed 3		
Canada Thistle 2		
Yellow Nutsedge 1		
Water Foxtail 1		
*Clubroot Pathogen (DNA)	Completed: 4/21/2023	Method OTH

Plasmodiophora brassicae (DNA) Not Detected (LOD: 1000 Spores per gram soil)

 1. Method(s) used for promoting germination of dommant 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

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	Work Order 1158181-01 Sample of Soil Page 1
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Submitted By:

Element (Edm) 7217 Roper Road NW Edmonton, AB CA T6B 3J4 P 780.438.5522

Work Order 1158182-01

Received 4/19/2023 Completed 4/21/2023

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: POC142993 Sample ID: 1644520-2, West Wind Topsoil

REPORT OF ANALYSIS

*Soil Seed Analysis 50g Completed: 4/20/202		Method	ОТН
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None Found 0

*Clubroot Pathogen (DNA) Completed: 4/21/2023 Method Off	*Clubroot Pathogen (DNA)	Completed: 4/21/2023		Method	OTH
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Plasmodiophora brassicae (DNA) Not Detected (LOD: 1000 Spores per gram soil)

1. Method(s) used for promoting germination of dormant seed "Advisory test -- Method not CFLA M&P prescribed "Accredited by CFLA to conduct tests in accordance with the laboratory's scope of accreditation and the Canadian Methods and Procedures for Testing Seed This document is sused by the Company under its General Conditions of Service accessible at https://www.sgs.com/enterns-and-conditions. Attention is drawn to the limitation of lability, indemnification, and jurisdiction issued defined therein. Any other holder of this document is advised that information contained herein reflects the Company's reflection of its intervention on dory with the limit of the Clenter startisticons, at any uncertained with the laboration score accessibility is to its Clent and this document is advised to the rights and obligations under the transaction documents. Any unauthorized alteration, 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.

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Submitted By: Element (Edm) 7217 Roper Road NW Edmonton, AB CA T6B 3J4 **P** 780.438.5522

Work Order 1158189-01 Completed 4/21/2023

Received 4/19/2023

Tested By: SGS Canada Inc. Unit 310, 280 Portage Close Sherwood Park, Alberta T8H 2R6 **P** 1 (780) 436-8822 ** CFIA Acc #1172

EDSCANA nalyst #020 **Janek Bartel**

Professional Member

Sample of: Soil Designated: POC142993 Sample ID: 1644520-3, Fairways Topsoil

REPORT OF ANALYSIS

*Soil Seed Analysis 50g Completed: 4/20/202		Method	ОТН	
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Lamb's-quarters 1

Plasmodiophora brassicae (DNA) Not Detected (LOD: 1000 Spores per gram soil)

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 used by the Company under its General Conditions of Service accessible at https://www.sgs.com/enterms-and-conditions. Attention 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 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 of liability is to the Client at this document is unautorized attention. Any unautorized attention, forgery or falsification of the content of the rights and obligations under the transaction documents. Any unautorized attention, forgery or falsification of the content of this document is unautorized attention.

Work Order 1158189-01	Sample of Soil	Page 1	
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Submitted By:

Element (Edm) 7217 Roper Road NW Edmonton, AB CA T6B 3J4 P 780.438.5522

Work Order 1158192-01

Received 4/19/2023 Completed 4/21/2023

Tested By: SGS Canada Inc. Unit 310, 280 Portage Close Sherwood Park, Alberta T8H 2R6 P 1 (780) 436-8822

lberta T8H 2R6



Sample of: Soil Designated: POC142993 Sample ID: 1644520-4, RR 265 Garden Mix

REPORT OF ANALYSIS

** CFIA Acc #1172

*Soil Seed Analysis 50g	Completed: 4/20/2023	Method	ОТН
Chickweed 3			
Stinkweed 1			

Papaver (Poppy) spp. 9

Lamb's-quarters 2

*Clubroot Pathogen (DNA) Completed: 4/21/2023 Method OTH
--

Plasmodiophora brassicae (DNA) Not Detected (LOD: 1000 Spores per gram soil)

 1. Method(s) used for promoting germination of dormant seed
 "Advisory test -- Method not CFLA M&P prescribed
 "Accredited by CFLA to conduct tests in accordance with the laboratory's scope of accreditation and the Canadian Methods and Procedures for Testing Seed

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