

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

Bill To:	The Black Dirt Company Box 3130	Project ID: Project Name:	Lot ID: Control Number:	1644520	
Attn:	Spruce Grove, AB, Canada T7X 3A5 Accounts Payable	Project Location: LSD: P.O.:	Date Received: Date Reported: Report Number:	Apr 30, 2023	
1 2	RYAN TOWNSEND THE BLACK DIRT COMPANY	Proj. Acct. code:			

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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Analytical Re	port						
Bill To:	The Black Dirt Company	Projec	ct ID:		Lot ID:	1644520	
	Box 3130	Projec	ct Name:		Control Number:		
	Spruce Grove, AB, Canada	Projec	ct Location:		Date Received:	Apr 17, 2023	
	T7X 3A5	LSD:			Date Reported:	Apr 30, 2023	
Attn:	Accounts Payable	P.O.:			Report Number:		
Sampled By:	RYAN TOWNSEND	Proj. /	Acct. code:				
Company:	THE BLACK DIRT COMPANY						
		Refer	ence Number	1644520-3			
			Sample Date	Apr 17, 2023			
			Sample Time	NA			
		Sar	nple Location				
		Sampl	e Description	FAIRWAYS / TOPSOIL			
			Matrix	Soil			
Analyte			Units	Results	Results	Results	Nominal Detection
Classification							Limit
Organic Matter	Calculated Value		%	3.94			0.04
Carbon	Total Organic		%	1.97			0.04
Metals Strong A	cid Digestion						
Antimony	Strong Acid Extrac	table	mg/kg	0.3			0.2
Arsenic	Strong Acid Extrac	table	mg/kg	6.2			0.2
Barium	Strong Acid Extrac	table	mg/kg	126			1
Beryllium	Strong Acid Extrac	table	mg/kg	0.4			0.1
Cadmium	Strong Acid Extrac	table	mg/kg	0.14			0.01
Chromium	Strong Acid Extrac	table	mg/kg	10.5			0.5
Cobalt	Strong Acid Extrac	table	mg/kg	7.5			0.1
Copper	Strong Acid Extrac	table	mg/kg	10.1			1
Lead	Strong Acid Extrac		mg/kg	7.9			0.1
Mercury	Strong Acid Extrac		mg/kg	0.05			0.05
Molybdenum	Strong Acid Extrac		mg/kg	<1.0			1
Nickel	Strong Acid Extrac		mg/kg	16.2			0.5
Selenium	Strong Acid Extrac		mg/kg	<0.29			0.3
Silver	Strong Acid Extrac		mg/kg	<0.10			0.1
Thallium	Strong Acid Extrac		mg/kg	0.13			0.05
Tin	Strong Acid Extrac		mg/kg	<1.0			1
Uranium	Strong Acid Extrac		mg/kg	0.7			0.5
Vanadium	Strong Acid Extrac		mg/kg	17.6			0.1
Zinc	Strong Acid Extrac	table	mg/kg	52			1
Texture	gregate Properties			Loom			
Sand	50 µm - 2 mm		% by woight	Loam 44			0.1
Sanu	·		% by weight				0.1
Clay	2 μm - 50 μm <2 μm		% by weight % by weight	36 20			0.1
Salinity	<2 μm		Jo by weight	20			0.1
Electrical Condu	ctivity Saturated Paste		dS/m	0.42			0.01
SAR	Saturated Paste			0.3			0.01
% Saturation			%	77			
Calcium	Saturated Paste		mg/kg	47.6			
Magnesium	Saturated Paste		mg/kg	7.7			
Sodium	Saturated Paste		mg/kg	6			
Potassium	Saturated Paste		mg/kg	4			
Chloride	Saturated Paste		mg/L	13			3
Chloride	Saturated Paste		mg/kg	10			
				57.0			

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Sulfate (SO4)

Saturated Paste

mg/kg

57.6



Water Soluble Parameters

Subcontracted Analysis Subcontractor Report Id Dry Weight

Biovision

Chromium (VI)

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Analytical Re	eport					
Bill To: Attn: Sampled By: Company:	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:	<b>1644520</b> Apr 17, 2023 Apr 30, 2023 2862715	
		Reference Number Sample Date Sample Time Sample Location Sample Description	1644520-3 Apr 17, 2023 NA FAIRWAYS / 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						
pН	1:2 Soil:Water	рН	7.0			
рН	1:2 Soil:CaCl2 sol.	pН	7.0			
Electrical Condu	uctivity 1:2 Soil:Water	dS/m at 25 °C	0.24			0.01
CCE	as CaCO3	%	0.27			0.2

< 0.05

1158181

mg/kg

Mol

0.05

Benjamin Morris, B.Sc Operations Manager

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.

Approved by:



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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:
	Accounts Payable RYAN TOWNSEND	P.O.: 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: 2862715

Method of Analysis					
Method Name	Reference	ethod		Date Analysis Started	Location
1:5 Water Soluble Extraction	APHA	olorimetric M	lethod, 3500-Cr B	Apr 18, 2023	Element Edmonton - Roper Road
1:5 Water Soluble Extraction	McKeague	luble Salts i xtures, 3.23	n Extracts of 1:5 Soil:Water	Apr 18, 2023	Element Edmonton - Roper Road
Calcium Carbonate in Soil (Dual pH)	Comm. Soil Sci. Pl. Anal.		to Two Routine Methods for , Vol 28, 1997	Apr 18, 2023	Element Edmonton - Roper Road
Metals ICP (Hot Block) in soil	EPA	ectrochemic	ration Procedure for cal Determination of Total Elements, October 1999,	Apr 18, 2023	Element Edmonton - Roper Road
Metals ICP (Hot Block) in soil	US EPA		of Trace Elements in astes by ICP-MS, 200.8	Apr 18, 2023	Element Edmonton - Roper Road
Particle Size Analysis - GS	Carter	drometer M	ethod, 55.3	Apr 17, 2023	Element Edmonton - Roper Road
pH and Conductivity in general soil 1:2	McKeague	2 Soil:Water	Ratio, 4.12	Apr 18, 2023	Element Edmonton - Roper Road
pH and Conductivity in general soil 1:2	Soil & Environ. Anal.	nticle Size A napter 7	nalysis, Direct Method,	Apr 18, 2023	Element Edmonton - Roper Road
pH by CaCl2 (1:2 ratio) in soil	McKeague	l in 0.01M C	alcium Chloride, 3.11	Apr 18, 2023	Element Edmonton - Roper Road
Saturated Paste in General Soil	APHA	itomated Fe	rricyanide Method, 4500-Cl-	Apr 17, 2023	Element Edmonton - Roper Road
Saturated Paste in General Soil	Carter	ectrical Cone apter 15	ductivity and Soluble lons,	Apr 17, 2023	Element Edmonton - Roper Road
Sublet to Biovision	Ext. Lab	e attached t	test report,	Apr 18, 2023	SGS Biovision
Total Carbon, Nitrogen in Soil by Leco Combustion (VAN)	SSSA Book Series 5	tal Carbon, ganic Matte	Organic Carbon, and r, 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:	2862715

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	ОТН
--	--------------------------	----------------------	--	--------	-----

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	
---	--	--------	-----	--

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 in the limit of the Client's instructions, if any under its deviced to the fullest extent of the law.

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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