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### Report Transmission Cover Page

Sampled By:       Ryan Townsend       P.O.:       Report Number: 2746662         Company:       The Black Dirt Company       Proj. Acct. code:       Report Number: 2746662	30 S  Attn: C Sampled By: R	,	Project Location: [ LSD: [ P.O.: R	ontrol Number: Date Received: Date Reported:	May 25, 2022
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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 - Single Report	PDF	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	<u>Format</u>	Deliverables
Email - Merge Reports	PDF	COC / Test Report
Email - Single Report	PDF	COA
Email - Single Report	PDF	Invoice

#### Notes To Clients:

• May 11, 2022 - Seed analysis was performed by a subcontract laboratory. See attached 8 page report 1136260-01, 1136261-01, 1136262-01, 1136263-01, 1136264-01, 1136265-01, 1136266-01 & 1136267-01

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### **Analytical Report**

	Bill To:	The Black Dirt Company	Proje
		300 Saskatchewan Ave	Proje
		Spruce Grove, AB, Canada	Proj
	Attn:	Charlene Hinkel	LSD
Sar	npled By:	Ryan Townsend	P.O.
(	Company:	The Black Dirt Company	Proj

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

Lot ID: **1570367** Control Number: Date Received: May 10, 2022 Date Reported: May 25, 2022 Report Number: 2746662

	Sé	erence Number Sample Date Sample Time ample Location ple Description	1570367-1 May 09, 2022 NA Campsite Road / Clay			
		Matrix	Soil			
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Metals Strong Acid Dige	stion					
Boron	Saturated Paste	mg/L	<0.05			0.05
Antimony	Strong Acid Extractable	mg/kg	0.3			0.2
Arsenic	Strong Acid Extractable	mg/kg	5.5			0.2
Barium	Strong Acid Extractable	mg/kg	138			1
Beryllium	Strong Acid Extractable	mg/kg	0.3			0.1
Cadmium	Strong Acid Extractable	mg/kg	0.11			0.01
Chromium	Strong Acid Extractable	mg/kg	9.7			0.5
Cobalt	Strong Acid Extractable	mg/kg	7.1			0.1
Copper	Strong Acid Extractable	mg/kg	10.3			1
Lead	Strong Acid Extractable	mg/kg	6.5			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	17.7			0.5
Selenium	Strong Acid Extractable	mg/kg	<0.3			0.3
Silver	Strong Acid Extractable	mg/kg	<0.10			0.1
Thallium	Strong Acid Extractable	mg/kg	0.13			0.05
Tin	Strong Acid Extractable	mg/kg	<1.0			1
Uranium	Strong Acid Extractable	mg/kg	0.7			0.5
Vanadium	Strong Acid Extractable	mg/kg	15.5			0.1
Zinc	Strong Acid Extractable	mg/kg	45			1
Physical and Aggregate	-	0.0				
Texture	•		Sandy Loam			
Sand	50 µm - 2 mm	% by weight	65			0.1
Silt	2 μm - 50 μm	% by weight	17			0.1
Clay	<2 μm	% by weight	18			0.1
Salinity	·	, ,				
Electrical Conductivity	Saturated Paste	dS/m	0.40			0.01
SAR	Saturated Paste		0.4			
% Saturation		%	55			
Calcium	Saturated Paste	mg/kg	26.5			
Magnesium	Saturated Paste	mg/kg	6.0			
Sodium	Saturated Paste	mg/kg	6			
Potassium	Saturated Paste	mg/kg	2			
Chloride	Saturated Paste	mg/L	5			3
Chloride	Saturated Paste	mg/kg	3			č
Sulfate (SO4)	Saturated Paste	mg/kg	18.3			
TGR	Saturated Paste	T/ac	<0.1			



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#### **Analytical Report** Project ID: Bill To: The Black Dirt Company Lot ID: 1570367 Project Name: 300 Saskatchewan Ave Control Number: Project Location: Spruce Grove, AB, Canada Date Received: May 10, 2022 LSD: Attn: Charlene Hinkel Date Reported: May 25, 2022 P.O.: Sampled By: Ryan Townsend Report Number: 2746662 Proj. Acct. code: Company: The Black Dirt Company

		ference Number Sample Date Sample Time Sample Location	1570367-1 May 09, 2022 NA			
		nple Description	Campsite Road / Clay			
		Matrix	Soil			
Analyte		Units	Results	Results	Results	Nominal Detection Limit
Soil Acidity						
рН	1:2 Soil:Water	рН	8.0			
рН	1:2 Soil:CaCl2 sol.	pН	7.5			
Electrical Conductivity	1:2 Soil:Water	dS/m at 25 °C	0.23			0.01
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	Not Detected			1000
Subcontracted Analysis						
Subcontractor Report Id	Biovision		1136260-01			

Approved by:

Mol

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.



Bill To: The Black Dirt Company

Attn: Charlene Hinkel

Company: The Black Dirt Company

Sampled By: Ryan Townsend

**Method of Analysis** 

300 Saskatchewan Ave

Spruce Grove, AB, Canada

**Methodology and Notes** 

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

Project ID:

LSD:

P.O.:

Project Name:

Project Location:

Proj. Acct. code:

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Lot ID: 1570367

ontrol Number:	
Date Received:	May 10, 2022
Date Reported:	May 25, 2022
Report Number:	2746662

С Rep

Method Name	Reference	Method	Date Analysis Started	Location
1:5 Water Soluble Extraction	APHA	* Colorimetric Method, 3500-Cr B	May 11, 2022	Element Edmonton - Roper Road
1:5 Water Soluble Extraction	McKeague	<ul> <li>* Soluble Salts in Extracts of 1:5 Soil:Wate Mixtures, 3.23</li> </ul>	r May 11, 2022	Element Edmonton - Roper Road
Clubroot	Plant Path	<ul> <li>* Wallenhammer et al 2012. In-Field distribution of Plasmodiophora brassicae measured using real-time PCR., Plant Pathology</li> </ul>	May 18, 2022	Element Edmonton - Roper Road
Metals ICP (Hot Block) in soil	EPA	<ul> <li>* Sample Preparation Procedure for Spectrochemical Determination of Total Recoverable Elements, October 1999, 200.2</li> </ul>	May 11, 2022	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	May 11, 2022	Element Edmonton - Roper Road
Particle Size Analysis - GS	Carter	* Hydrometer Method, 55.3	May 12, 2022	Element Edmonton - Roper Road
pH and Conductivity in general soil 1:2	McKeague	* 1:2 Soil:Water Ratio, 4.12	May 11, 2022	Element Edmonton - Roper Road
pH and Conductivity in general soil 1:2	Soil & Environ. Anal.	<ul> <li>* Particle Size Analysis, Direct Method, Chapter 7</li> </ul>	May 11, 2022	Element Edmonton - Roper Road
pH by CaCl2 (1:2 ratio) in soil	McKeague	* pH in 0.01M Calcium Chloride, 3.11	May 11, 2022	Element Edmonton - Roper Road
Saturated Paste in General Soil	APHA	<ul> <li>* Automated Ferricyanide Method, 4500-C E</li> </ul>	- May 11, 2022	Element Edmonton - Roper Road
Saturated Paste in General Soil	Carter	<ul> <li>* Electrical Conductivity and Soluble Ions, Chapter 15</li> </ul>	May 11, 2022	Element Edmonton - Roper Road
Sublet to Biovision	Ext. Lab	See attached test report,	May 10, 2022	SGS Biovision

\* Reference Method Modified

#### References

APHA	Standard Methods for the Examination of Water and Wastewater
Carter	Soil Sampling and Methods of Analysis.
EPA	Environmental Protection Agency Test Methods - US
Ext. Lab	External Laboratory
McKeague	Manual on Soil Sampling and Methods of Analysis
Plant Path	Plant Pathology
Soil & Environ. Anal.	Soil and Environmental Analysis: Physical Methods
US EPA	US Environmental Protection Agency Test Methods

#### **Comments:**

• May 11, 2022 - Seed analysis was performed by a subcontract laboratory. See attached 8 page report 1136260-01, 1136261-01, 1136262-01, 1136263-01, 1136264-01, 11361265-01, 1136266-01 & 1136267-01



#### **Methodology and Notes**

Bill To:	The Black Dirt Company
	300 Saskatchewan Ave
	Spruce Grove, AB, Canada
Attn:	Charlene Hinkel
Sampled By:	Ryan Townsend
Company:	The Black Dirt Company

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

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#### Lot ID: 1570367

Control Number: Date Received: Date Reported: Report Number: 2746662

May 10, 2022 May 25, 2022

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.



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# Work Order 1136260-01

Received 5/11/2022 Completed 5/11/2022

**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: POC137196 Sample ID: 1570367-1



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# REPORT OF ANALYSIS

*Soil Seed Analysis 50g Completed: 5/11/2022		Method	ОТН
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None Found 0

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 staved by the Company under its General Conditions of Service accessible at https://www.sgs.com/ent/tems-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 sole responsibility is to its Client and this document does not excenserate parties to a transaction from exercising all the rights and obligations under the transaction documents. Any unauthorized altenation, forgery or falsification of the content or appearance of this document is unavviluand effectives may be prosecuted to the fullest extent of the law.

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# Work Order 1136261-01

Received 5/11/2022 Completed 5/11/2022

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: POC137196 Sample ID: 1570367-2



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# **REPORT OF ANALYSIS**

None Found 0

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 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 of liability, indemnification, and jurisdiction issued defined therein. Any other holder of this document is advised that information contained herein reflects the Company's sole responsibility is to its Client and this document is on a voltable to a contract the advised that information contained herein reflects the Company's sole responsibility is to its Client and this document is on a voltable to a contract the advised to the rights and obligations under the transaction documents. Any unauthorized alteration, forgery or faisification 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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# Work Order 1136262-01

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Analyst #024 Sarah Nysetvold

Professional Member

Sample of: Soil Designated: POC137196 Sample ID: 1570367-3

## REPORT OF ANALYSIS

None Found 0

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 staved by the Company under its General Conditions of Service accessible at https://www.sgs.com/ent/tems-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 sole responsibility is to its Client and this document does not excenserate parties to a transaction from exercising all the rights and obligations under the transaction documents. Any unauthorized altenation, forgery or falsification of the content or appearance of this document is unavviluand effectives may be prosecuted to the fullest extent of the law.

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# Work Order 1136263-01

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Sted Scale

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Professional Member

# REPORT OF ANALYSIS

Sample of: Soil

**Designated:** POC137196 **Sample ID:** 1570367-4

*Soil Seed Analysis 50g	Completed: 5/11/2022		Method	ОТН
-------------------------	----------------------	--	--------	-----

Lamb's-quarters 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
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# Work Order 1136264-01

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Professional Member

### REPORT OF ANALYSIS

Sample of: Soil

**Designated:** POC137196 **Sample ID:** 1570367-5

*Soil Seed Analysis 50g Completed: 5/11/202		Method	ОТН
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Bullrush 2

Goosefoot 1

1. Method(s) used for promoting germination of dormant sed "Advisory test - - Method not CFLA M&P prescribed "Acvectedited 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 susued 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 lability, indemnification, and jurisdiction issued defined therein. Any other holder of this document is advised that information contained herein reflects the Company's only represented to the laboration of service accessible at https://www.sgs.com/en/terms-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 only represented to the fullest extent of the laboration of the content of a presented of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

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# Work Order 1136265-01

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Sample of: Soil Designated: POC137196 Sample ID: 1570367-6



### REPORT OF ANALYSIS

	*Soil Seed Analysis 50g	Completed: 5/11/2022		Method	ОТН
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Cinquefoil 76

Lamb's-quarters 13

Chickweed 12

Green Foxtail 5

Stinkweed 4

Geranium 2

Perennial Sow Thistle 1

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/en/terms-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 of its intervention of limited the Clerities instructions, if any, in the Company's sele responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all 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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# Work Order 1136266-01

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Sample of: Soil Designated: POC137196 Sample ID: 1570367-7



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## **REPORT OF ANALYSIS**

None Found 0

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 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 of liability, indemnification, and jurisdiction issued defined therein. Any other holder of this document is advised that information contained herein reflects the Company's sole responsibility is to its Client and this document is on a voltable to a contract the advised that information contained herein reflects the Company's sole responsibility is to its Client and this document is on a voltable to a contract the advised to the rights and obligations under the transaction documents. Any unauthorized alteration, forgery or faisification 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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# Work Order 1136267-01

Received 5/11/2022 Completed 5/11/2022

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: POC137196 Sample ID: 1570367-8



### **REPORT OF ANALYSIS**

*Soil Seed Analysis 50g	Completed: 5/11/2022		Method	отн
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Lamb's-quarters 4

Night-flowering Catchfly 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 used by the Company under its General Conditions of Service accessible at https://www.sgs.com/enterms-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 of liability, indemnification, and jurisdiction issued defined therein. Any other holder of this document is advised that information contained herein reflects the Company's sole responsibility is to its Client and this document is on a voltable to a contract the advised that information contained herein reflects the Company's sole responsibility is to its Client and this document is on a voltable to a contract the advised to the rights and obligations under the transaction documents. Any unauthorized alteration, forgery or faisification 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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Attention:	in: Charlene Hinkel	el	Attention:	Char	Charlene Hinkel		E-mail:				
Phone:	780-962-8220	0	Phone:	780	780-962-8220				mple C	Sample Custody	
Cell:	780-616-3566	6	Cell:	780	780-616-3566		Sampled by:	ed by:	œ	Ryan Townsend	end
Fax:	780-962-8215	10	Fax:	780	780-962-8215		Company:	any:	The Bla	The Black Dirt Company	npany
E-mail:	charlene.hinkel@blackdirtcompany.com	company.com	E-mail 1: <u>c</u>	charlene.hinkel@blackdirtcompany.com	<u> Oblackdirtcom</u>	pany.con		thorize	Element	I authorize Element to proceed with	ed with
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When " default ' and turn the lab not all s	When "ASAP" is requested, turn around will default to a 100% RUSH priority, with pricing and turn around time to match. Please contact the lab prior to submitting RUSH samples. If not all samples require RUSH, please indicate in the special instructions.	C Email C Online C C Email	aA/ac PDF Excel	☐ НСРWORG ☐ SPIG □ AB Trer 1   □ BCCS Other (list below)	☐ SPIGEC □ BCCSR below)	Containers t Preserved?	noiseacid bioA on sinaqora asegargi	ble Parameters	sisylant		
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Please report Samples seperately						OəM		lioS	Club		
Sample	Sample Description	Depth start end in cm m	Date/Time sampled	Matrix	Sampling method	>	-	Enter	Enter tests above levant samples be	Enter tests above (✓ relevant samples below)	(M
	Clay		09-May-22			× +	77/	1-1-	~ ~		
	Sand		09-May-22			1 1	~ ~ / <	$\overline{\overline{x}}$	~ ~		
	Sand		09-May-22			1 1	1 1 1	777	~ ~		
Ga	Garden Mix		09-May-22			1 1	ノノヽ	<u> </u>	ヽヽ		
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