

DEPT. OF ENVIRONMENT AND ENERGY

April 9, 2021

June Moline
Village Clerk/Treasurer
312 South Vine Street
PO Box 46
Mead, NE 68041-0046

RE: City Park Pesticide Sampling
Facility ID: 84069
Program ID: NE0137634
Subject: Soil Sampling Results – Updated J-coded results

Dear Ms. Moline:

This letter is an update to our March 26, 2021 letter concerning the sampling results for the February 26, 2021 soil sampling conducted by the Nebraska Department of Environment and Energy (NDEE) at the Mead City Park related to the environmental investigation at the AltEn, LLC facility.

Enclosed are the J-coded laboratory results for the composite soil sample "21PE001461" collected from the City Park property. The J-coded results show estimated values for chemicals that previously were identified as less than the limit of detection (LOD) of 5 parts per billion. The first column of the laboratory report identifies each chemical that was tested for. The third column provides the numeric results of the chemical in units of Parts Per Billion (ppb).

A summary table is provided below that compares your results to levels which were developed by the State of Nebraska and the United States Environmental Protection Agency to be protective of human health, referred to as Soil Risk-based Screening Levels. The Hazard Quotient (HQ)-the ratio of potential exposure to a substance and the level at which no adverse health effects are expected- was calculated at both 1 and 0.1.

Soil Sample	Chemical	Results (ppb)	Soil Risk Based Screening Level: HQ 1 (ppb)	Soil Risk Based Screening Level: HQ 0.1 (ppb)
21PE001461	Clothianidin	38	6,200,000	620,000
	Fluoxastrobin	1.23 - J	950,000	95,000
	Glyphosate	20.5	6,300,000	630,000
	Thiamethoxam	3.39 - J	760,000	76,000

"J" indicates updated data that previously were identified as < 5 ppb and are estimated values < the LOD of 5 ppb

The results indicate that there were no chemicals detected in the soil samples collected above the Soil Risk-Based Screening Level at either HQ level.



Pete Ricketts, Governor



If you have any questions regarding the laboratory data enclosed, please contact me or Zoe DeGrande at (402) 471-2186 or mike.felix@nebraska.gov or zoe.degrande@nebraska.gov.

Thank you again for your assistance.

Sincerely,

A handwritten signature in blue ink that reads "Mike Felix". The signature is written in a cursive, flowing style.

Mike Felix
Section Supervisor
Superfund/VCP Section
Monitoring and Remediation Division

Enclosures

Performed By:

South Dakota Agricultural Laboratories
1335 Western Avenue
Brookings, South Dakota 57006
Phone: 605-692-7325
E-Mail: regina.wixon@sdaglabs.com

Collected By:

Nebraska Dept. of Environment and Energy
PO Box 98922
Lincoln, NE 68509
Phone: 402-471-3377
E-Mail: wade.gregson@nebraska.gov

Report Date: 2021-04-01**Amended Report****South Dakota Agricultural Laboratories has examined the sample of**

Limfinite Package Id : 20210302-003

Lab Sample Id : 21PE001461

Customer Sample Id : City Park

Sample Description : Soil/Composite

Date Collected : 2021-02-26

Date Received : 2021-03-02

Cooler Temp :

RESULTS

ANALYTE	UNIT	AS RECEIVED	LOD	DETECTION LIMIT	METHOD	DATE OF EXTRACTION	DATE OF ANALYSIS
Abamectin	ppb	ND	3	10	LC-MS/MS	2021-03-03	2021-03-11
Acetamprid	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-05
Azoxystrobin	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-05
Brassinazole	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-04
Clothianidin	ppb	38.0	3	10	LC-MS/MS	2021-03-12	2021-03-13
Cyproconazole	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-04
Desthio-Prothioconazole	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-04
Difenoconazole	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-04
Dimoxystrobin	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-05
Dinotefuran	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-05
Epoxiconazole	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-04
Fluconazole	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-04
Fluoxastrobin	ppb	J1.23	1	5	LC-MS/MS	2021-03-03	2021-03-05
Glufosinate	ppb	ND	3	10	J. Agric. Food Chem. 34 535-538	2021-03-03	2021-03-05
Glyphosate	ppb	20.5	3	10	J. Agric. Food Chem. 34 535-538	2021-03-03	2021-03-05
Imidacloprid	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-05
Iaconazole	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-04
Isavuconazole	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-04
Metconazole	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-04
Nitenpyram	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-05
Orysastrobin	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-05
Picoxystrobin	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-05
Propiconazole	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-04
Prothioconazole	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-04
Pyraclostrobin	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-05
Ravuconazole	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-04
Sulfonic Acid Prothioconazole	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-04
Tebuconazole	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-04

Tetraconazole	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-04
Thiabendazole	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-04
Thiacloprid	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-05
Thiamethoxam	ppb	J3.39	1	5	LC-MS/MS	2021-03-03	2021-03-05
Trifloxystrobin	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-05
Uniconazole	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-04
Voriconazole	ppb	ND	1	5	LC-MS/MS	2021-03-03	2021-03-04

QUALITY ASSURANCE

ANALYTE	UNIT	DUPLICATE	SPIKE RECOVERY	MATRIX BLANK	PROCESS BLANK	INSTRUMENT BLANK
Abamectin	ppb	ND	87.1	ND	ND	ND
Acetamprid	ppb	ND	118	ND	ND	ND
Azoxystrobin	ppb	ND	96.4	ND	ND	ND
Brassinazole	ppb	ND	114	ND	ND	ND
Clothianidin	ppb	53.6	120	ND	ND	ND
Cyproconazole	ppb	ND	94.1	ND	ND	ND
Desthio-Prothioconazole	ppb	ND	107	ND	ND	ND
Difenoconazole	ppb	ND	102	ND	ND	ND
Dimoxystrobin	ppb	ND	127	ND	ND	ND
Dinotefuran	ppb	ND	122	ND	ND	ND
Epoxiconazole	ppb	ND	113	ND	ND	ND
Fluconazole	ppb	ND	94.4	ND	ND	ND
Fluoxastrobin	ppb	1.84j	110	ND	ND	ND
Glufosinate	ppb	ND	96.0	ND	ND	ND
Glyphosate	ppb	10.6	75.1	ND	ND	ND
Imidacloprid	ppb	ND	124	ND	ND	ND
Ipconazole	ppb	ND	105	ND	ND	ND
Isavuconazole	ppb	ND	93.7	ND	ND	ND
Metconazole	ppb	ND	105	ND	ND	ND
Nitenpyram	ppb	ND	99.8	ND	ND	ND
Orysastrobin	ppb	ND	110	ND	ND	ND
Picoxystrobin	ppb	ND	109	ND	ND	ND
Propiconazole	ppb	ND	103	ND	ND	ND
Prothioconazole	ppb	ND	100	ND	ND	ND
Pyraclostrobin	ppb	ND	115	ND	ND	ND
Ravuconazole	ppb	ND	103	ND	ND	ND
Sulfonic Acid Prothioconazole	ppb	ND	92.7	ND	ND	ND
Tebuconazole	ppb	ND	109	ND	ND	ND
Tetraconazole	ppb	ND	105	ND	ND	ND
Thiabendazole	ppb	ND	84.1	ND	ND	ND
Thiacloprid	ppb	ND	118	ND	ND	ND
Thiamethoxam	ppb	3.61j	117	ND	ND	ND
Trifloxystrobin	ppb	ND	113	ND	ND	ND
Uniconazole	ppb	ND	108	ND	ND	ND
Voriconazole	ppb	ND	107	ND	ND	ND

Comments:

Definitions:

ppb - parts per billion

Detection Limit - Lowest concentration that can be quantitatively reported with confidence

ND - Not Detected above the limit of quantification

Duplicate - Concentration found in repeat sample analysis

Spike Recovery - Recovery based on a known amount of active ingredient spiked into a similar-matrix, blank sample

Matrix Blank - A similar-matrix, blank sample is evaluated

Process Blank - A sample without any matrix (soil, vegetation etc) is processed through the sample analysis procedure

Instrument Blank - Injection solvent is run to demonstrate no carryover between injections on the instrument

Reviewed and approved by Regina Wixon, Ph.D.

Submitted by the customer:

Abamectin
Azoles
Neonics
Strobilins
OP

**South Dakota
Agricultural
Laboratories**
Agricultural and Analytical Testing

Chain of Custody

20210302-003
21NE001461

20210302-003
21NE001461

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Brookings, SD 57006
PH 605-692-7325
Fax 605-692-7326
www.sdaglabs.com

Nebraska Department of Environment and Energy

Contact information					
Company / Organization:	NDEE		Address: PO Box 98922, Lincoln, NE 68509		
Contact:	Wade Gregson		Email: Wade.Gregson@nebraska.gov		
Phone:	402-471-3377		Special Instructions:		
Project Site / Sampling Event		Mead Public Park Ag Chemicals Soil Screen			
Date of Sample Collection		26 Feb 2021			
Sample ID	Time Collected	Sample Media / Type	Number of Containers	Description / Notes	
City Park	1900 hrs	Soil	1	Composite	
				See Attached	
				Screen list	

Sample Type Codes	
VE - vegetation	CI - clothing
SO - soil	AN - animal
SW - swab	DDG - dried distiller's grains
WA - water	

Turn-around-times
Special charges apply for RUSH samples. Please contact the laboratory before sending.

Commercial Carrier	United Parcel Service	Sample(s) Received at SD Ag Labs
Date/Time Relinquished to Carrier	1 Mar 2021	Date 2021-03-02
Number of Ice Chest(s) Shipped	1 (one)	Received by Alyssa Kennedy

Relinquished By	Date & Time	Received By	Date & Time
Rent Dip/EA 402-817-7616	Mar 21/1600	Kennedy	2021-03-02