

CON: 12-15 Doc # 23060

STATE OF IOWA

CHESTER J. CULVER, GOVERNOR PATTY JUDGE, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
RICHARD A. LEOPOLD, DIRECTOR

September 1, 2010

Mr. Larry Hunt 59853 Jacquat Drive Emerson, Iowa 51533

Re: Former Emerson Farm Supply Site Investigation Results, Mills County Parcel ID 09729000000000, South Avenue, Emerson, Iowa

Dear Mr. Hunt:

The Iowa Department of Natural Resources, Contaminated Sites Section, (Department) has completed the environmental site investigation at the former Emerson Farm Supply located in Emerson, Iowa, the location in shown on Figure 1. Five groundwater and nine soil samples were collected and analyzed for nitrate + nitrite. All nine soil samples and three of the groundwater samples were sent to the University of Iowa Hygienic Laboratory (UHL) and analyzed using EPA Method 353.2. Samples were not collected at GP-04 as too much equipment was in the way.

The results for the groundwater samples are consistent with other samples collected during an earlier environmental investigation adding support that the Former Emerson Farm Supply is the source for the high nitrate levels in City of Emerson's Municipal Well No. 3. The results are shown in Table 1 with the locations shown on Figure 2. The maximum contaminant level for nitrate in drinking water is 10 mg/L.

Table 1
Groundwater Sample Results for Nitrate + Nitrite in mg/L

Location	GP-01	GP-02	GP-03	GP-04	GP-05	GP-06
HACH DR2800*	27.8	46.8	27.6	ÑΑ	71.8	0.4
UHL	27	46	28	NA	NA	NA

*HACH DR2800 - Portable sample analysis using HACH Method 10206 (TNT) NA – Not analyzed

The groundwater samples were collected from the open soil borings at a depth of eight feet except GP-06 which the groundwater samples was collected from four feet deep. The levels of nitrate along with the shallow collection depth indicate the soils at the Former Emerson Farm Supply are still acting as a source for groundwater contamination.

Nine soil samples were collected from five of the six locations noted on Figure 2 and analyzed for nitrate + nitrite. Two soil samples were collected from each location (GP-01, GP-02, GP-03 and GP-05), one from the zero to four feet deep strata and the other

from the four to eight feet deep strata. Only one soil sample was collected from GP-06 at the zero to four feet strata, the soil probe hit refusal at four feet deep so the deeper soil samples was not collected.

Table 2
Soil Samples Results for Nitrate + Nitrite in mg/kg

Location	GP-01	GP-02	GP-03	GP-04	GP-05	GP-06
0 - 4 Feet Deep	5.6	5.5	<5.0	NA	5.1	42
4 - 8 Feet Deep	12	12	14	NA	12	NA

NA - Not analyzed

The nitrate soil standard in the lowa Land Recycling Program is 120,000 mg/kg; however, this site is under the authority of IAC-567-133 which does not have specific standards for contaminants in the soil. In IAC-567-133 it is stated that if the level of a contaminant in the soil causes groundwater to become contaminated above a standard then the soil must be cleaned up.

The Department feels the remaining nitrate in the soil is leftover from past handling practices and significant levels of nitrates were not found during this investigation. Levels in the soil were most likely much higher in the past in order to produce the current groundwater plume. Soil sample results show most of the nitrates in the shallow soil have been utilized by plants, naturally broke down, or leached into the groundwater and the levels should continue to decrease in the future. Even though the nitrate in the soil continues to leach into the groundwater the levels found are not high enough to require any removal efforts at this time.

In conclusion, the nitrate groundwater plume impacting Municipal Well No. 3 has been shown to originate from the Former Emerson Farm Supply site, however levels found in well No. 3 should start to decrease as fertilizer is no longer handled at the farm supply facility. Also, the City of Emerson has installed a nitrate removal system to remove the nitrates from the water supply until the nitrate level falls below the maximum contaminant level. Therefore, no further environmental actions are required at this time. This determination should not be construed to be an endorsement by the Department that a hazardous condition does not exist on the property. Instead, it is a conclusion by the Department that available information (without regard to the quality or quantity of that information) does not suggest the likely existence of significant hazardous condition on the property. Furthermore, this determination does not constitute an endorsement by the Department as to the appropriateness of any proposed use of the property. If such an endorsement is sought, the property may be enrolled in the lowa Land Recycling Program, which would involve a thorough investigation and assessment of risks associated with possible uses of the property.

If the farm supply facility is no longer actively doing business the Department highly recommends that the bulk pesticide tanks be removed from the site. Any accidental spillage of the pesticides would require additional environmental activities at your expense.

If you have any questions or need further information please feel free to call or e-mail at (515) 281-4171 or dan.cook @dnr.iowa.gov.

Sincerely,

Daniel Cook

Environmental Specialist Senior

Contaminated Sites

encl:

Site Location, Figure 1

Sample Locations, Figure 2

UHL Results of Analysis Reports

C:

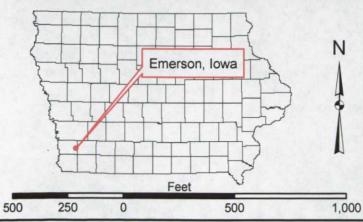
James Pray

Brown Winick Attorneys at Law, 666 Grand Avenue, Suite 2000

Des Moines, Iowa 50309-2510

lowa DNR Field Office 4

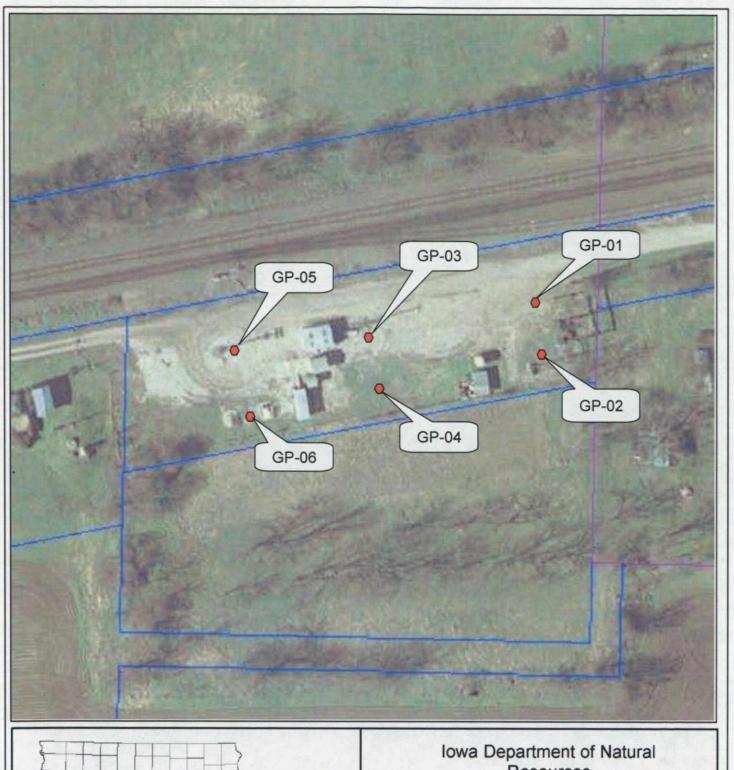


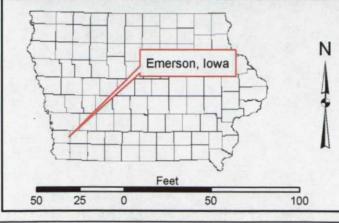


Iowa Department of Natural Resources

Emerson Farm Supply Investigation Emerson, Mills County, Iowa

Site Location Figure 1





Resources

Emerson Farm Supply Investigation Emerson, Mills County, Iowa

 Sample Locations Figure 2



The University of Iowa

Date of report: 05-26-2010

Sample Number | 2010014897 Date Received | 05-07-2010 Project | WMSF

Date Collected Collection Site Collection Town Emerson

Description water
Reference GP-01
Collector COOK

Purchase Order

ollector COOK DANIEL
Phone (515) 281-4171

Comments

Upon arrival, sample met container and preservation requirements for

the analysis requested; EXCEPT: sample temperature exceeds 6 degrees celsius.

Please review carefully your sample results for additional analyte

comments or method exceptions.

Results of Analyses

Nitrate + Nitrite as Nitrate N (Water)

	Concentration	Quantitation Limit
Analyte	mg/L	mg/L
Nitrate + Nitrite Nitrogen as N	27	0.10
Date Analyzed: 05-11-2010	Analyzed at: Ankeny	Analyst: JE
Method: EPA 353.2		Verified: TAB

Description of units used within this report

mg/L - Milligrams per Liter

Quant Limit - Lowest concentration reliably measured

The results of this report relate only to the items analyzed. This report shall not be reproduced except in full without the written approval of the laboratory.

Iowa Environmental Laboratory IDs are: Ankeny #397, Iowa City #027, Lakeside #393.

If you have any questions please call Client Services at 800/421-IOWA (4692) or 319/335-4500. Thank you.



The University of Iowa

Date of report: 05-26-2010

Sample Number 2010014898
Date Received Project WMSF

Date Collected 05-05-2010 10:10
Collection Site emerson farm supply
Collection Town Emerson

Description water
Reference GP-02
Collector COOK

Collector COOK DANIEL
Phone (515) 281-4171
Purchase Order

Comments

Upon arrival, sample met container and preservation requirements for

the analysis requested;

EXCEPT: sample temperature exceeds 6 degrees celsius.

Please review carefully your sample results for additional analyte

comments or method exceptions.

Results of Analyses

Nitrate + Nitrite as Nitrate N (Water)

	Concentration	Quantitation Limit
Analyte	mg/L	mg/L
Nitrate + Nitrite Nitrogen as N	46	0.10

Date Analyzed: 05-11-2010

Method: EPA 353.2

Analyzed at: Ankeny

Analyst: JE Verified: TAB

Description of units used within this report

mg/L - Milligrams per Liter

Quant Limit - Lowest concentration reliably measured

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The University of Iowa

Date of report: 05-26-2010

Sample Number 2010014899
Date Received 05-07-2010
Project WMSF

Date Collected Collection Site Collection Town

Description Water

Description water
Reference GP-03
Collector COOK

Phone Purchase Order

emerson farm supply Emerson water GP-03 COOK DANIEL

(515) 281-4171

Comments

Upon arrival, sample met container and preservation requirements for

the analysis requested;
EXCEPT: sample temperature exceeds 6 degrees celsius.

Please review carefully your sample results for additional analyte

comments or method exceptions.

Results of Analyses

Nitrate + Nitrite as Nitrate N (Water)

	Concentration	Quantitation Limit
Analyte	mg/L	mg/L
Nitrate + Nitrite Nitrogen as N	28	0.10
D . A 1 1 05 11 0010	A 1 1 . A 1	

Date Analyzed: 05-11-2010

Method: EPA 353.2

Analyzed at: Ankeny

Analyst: JE Verified: TAB

Description of units used within this report

mg/L - Milligrams per Liter.

Quant Limit - Lowest concentration reliably measured

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The University of Iowa

Date of report: 05-26-2010

Sample Number 2010014900
Date Received 05-07-2010
Project WMSF

Date Collected Collection Site Collection Town Collection Collected Co

Description | soil | GP-10 | COOK DANIEL

Phone Purchase Order

Comments

Upon arrival, sample met container and preservation requirements for

the analysis requested;

EXCEPT: sample temperature exceeds 6 degrees celsius.

Please review carefully your sample results for additional analyte

comments or method exceptions.

Results of Analyses

Nitrate + Nitrite as N (Soil/Sludge)

	Concentration	Quantitation Limit	
Analyte	mg/kg by dry wt	mg/kg by dry wt	
Nitrate + Nitrite Nitrogen as N	. 5.6	5.0	-
Data Analyzad: 05 20 2010	Analyzed at: Ankeny	Analyst: RR	

Date Analyzed: 05-20-2010 Analyzed at: Ankeny Analyst: BR Method: EPA 353.2 Verified: LF

Description of units used within this report

mg/kg by dry wt - Milligrams per Kilogram by Dry Weight

Quant Limit - Lowest concentration reliably measured

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Iowa Laboratories Complex 2220 S. Ankeny Blvd, Ankeny, Iowa 50023 515/725-1600 Fax: 515/725-1642



The University of Iowa

Date of report: 05-26-2010

Sample Number 2010014901
Date Received 05-07-2010
Project WMSF

Date Collected Collection Site Collection Town Emerson Description Soil

05-05-2010 09:30 emerson farm supply

Description
Reference
Collector
Phone

Purchase Order

GP-14 COOK DANIEL

Comments

Upon arrival, sample met container and preservation requirements for

the analysis requested;

EXCEPT: sample temperature exceeds 6 degrees celsius.

Please review carefully your sample results for additional analyte

comments or method exceptions.

Results of Analyses

Nitrate + Nitrite as N (Soil/Sludge)

		Title no as It (Son Bidego)		
	•	Concentration	Quantitation Limit	
Analyte		mg/kg by dry wt	mg/kg by dry wt	
Nitrate + Nitrite Nitrogen as N		12	5.0	

Date Analyzed: 05-20-2010

Method: EPA 353.2

Analyzed at: Ankeny

Analyst: BR Verified: LF

Description of units used within this report

mg/kg by dry wt - Milligrams per Kilogram by Dry Weight

Quant Limit - Lowest concentration reliably measured

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The University of Iowa

Date of report: 05-26-2010

Sample Number 2010014902
Date Received 05-07-2010
Project WMSF

Date Collected | 05-05-2010 10:10 | Collection Site | Collection Town | Emerson

Description soil
Reference COOK
Phone
Purchase Order

COOK DANIEL

Comments

Upon arrival, sample met container and preservation requirements for

the analysis requested;

EXCEPT: sample temperature exceeds 6 degrees celsius.

Please review carefully your sample results for additional analyte

comments or method exceptions.

Results of Analyses

Nitrate + Nitrite as N (Soil/Sludge)

	Concentration	Quantitation Limit
Analyte	mg/kg by dry wt	mg/kg by dry wt
Nitrate + Nitrite Nitrogen as N	5.5	5.0
D-4- A - I 1 05 20 2010	A . 1 1 A 1	A .14. DD

Date Analyzed: 05-20-2010 Analyzed at: Ankeny Analyst: BR Method: EPA 353.2 Verified: LF

Description of units used within this report

mg/kg by dry wt - Milligrams per Kilogram by Dry Weight

Quant Limit - Lowest concentration reliably measured

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The University of Iowa

Date of report: 05-26-2010

Sample Number	2010014903	
Date Received	05-07-2010	
Project	WMSF	

Date Collected
Collection Site
Collection Town
Description
Collected
Collection Town
Collection Town
Collection Town
Collected
Collection Site
Collection Town
Collected
Collected
Collected
Collection Site
Collection Site
Collection Town
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Collected
Collection Site
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Collection

Description | soil | GP-24 | COOK | Phone |

Purchase Order

COOK DANIEL

Comments

Upon arrival, sample met container and preservation requirements for the analysis requested;

EXCEPT: sample temperature exceeds 6 degrees celsius.

Please review carefully your sample results for additional analyte

comments or method exceptions.

Results of Analyses

Nitrate + Nitrite as N (Soil/Sludge)

	Concentration	Quantitation Limit	
Analyte	mg/kg by dry wt	mg/kg by dry wt	
Nitrate + Nitrite Nitrogen as N	12	5.0	
Date Analyzed: 05-20-2010	Analyzed at: Ankeny	Analyst: BR	
Method: FPA 353.2	·	Verified: I F	

Description of units used within this report

mg/kg by dry wt - Milligrams per Kilogram by Dry Weight

Quant Limit - Lowest concentration reliably measured

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The University of Iowa

Date of report: 05-26-2010

Sample Number 2010014904
Date Received 05-07-2010
Project WMSF

Date Collected | 05-05-2010 12:25 Collection Site | emerson farm supply | Emerson

Collection Town
Description
Reference
Collector
Phone
Remers
soil
GP-30
COOK

Purchase Order

COOK DANIEL

Comments

Upon arrival, sample met container and preservation requirements for

the analysis requested;

EXCEPT: sample temperature exceeds 6 degrees celsius.

Please review carefully your sample results for additional analyte

comments or method exceptions.

Results of Analyses

Nitrate + Nitrite as N (Soil/Sludge)

	Concentration	Quantitation Limit	
Analyte	mg/kg by dry wt	mg/kg by dry wt	
Nitrate + Nitrite Nitrogen as N	< 5.0	5.0	

Date Analyzed: 05-20-2010

Method: EPA 353.2

Analyzed at: Ankeny

Analyst: BR

Verified: LF

Description of units used within this report

mg/kg by dry wt - Milligrams per Kilogram by Dry Weight

Quant Limit - Lowest concentration reliably measured

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The University of Iowa

Date of report: 05-26-2010

Sample Number 2010014905
Date Received Project WMSF

Date Collected
Collection Site
Collection Town
Collection Town
Collection Town
Collection Town
Collection Town
Collected
Collection
C

Description soil
Reference GP-34
Collector COOK

Phone

Purchase Order

COOK DANIEL

Comments

Upon arrival, sample met container and preservation requirements for

the analysis requested;

EXCEPT: sample temperature exceeds 6 degrees celsius.

Please review carefully your sample results for additional analyte comments or method exceptions.

Results of Analyses

Nitrate + Nitrite as N (Soil/Sludge)

	Concentration	Quantitation Limit	
Analyte	mg/kg by dry wt	mg/kg by dry wt	
Nitrate + Nitrite Nitrogen as N	14	5.0	
Data Analyzad: 05.20.2010	Analyzed et. Ankony	Analysts DD	

Date Analyzed: 05-20-2010

Method: EPA 353.2

Analyzed at: Ankeny

Analyst: BR Verified: LF

Description of units used within this report

mg/kg by dry wt - Milligrams per Kilogram by Dry Weight

Quant Limit - Lowest concentration reliably measured

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Page 1 - End of Report

Iowa Laboratories Complex 2220 S. Ankeny Blvd, Ankeny, Iowa 50023 515/725-1600 Fax: 515/725-1642



The University of Iowa

Date of report: 05-26-2010

DANIEL COOK **IDNR CONTAMINATED SITES** WALLACE STATE OFFICE BLDG **502 EAST NINTH STREET DES MOINES IA 50319-0034**

Sample Number Date Received Project Date Collected

Collection Site Collection Town Description

Reference Collector Phone Purchase Order

2010014906

05-07-2010 **WMSF**

05-05-2010 11:30 emerson farm supply

Emerson soil **GP-50**

COOK DANIEL

Comments

Upon arrival, sample met container and preservation requirements for the analysis requested;

EXCEPT: sample temperature exceeds 6 degrees celsius.

Please review carefully your sample results for additional analyte

comments or method exceptions.

Results of Analyses

Nitrate + Nitrite as N (Soil/Sludge)

·	Concentration	Quantitation Limit	
Analyte	mg/kg by dry wt	mg/kg by dry wt	
Nitrate + Nitrite Nitrogen as N	5.1	5.0	
Data Analyzad: 05 20 2010	Analyzed at: Ankony	Analyst: RD	

Date Analyzed: 05-20-2010

Method: EPA 353.2

Analyst: BK Verified: LF

Description of units used within this report

mg/kg by dry wt - Milligrams per Kilogram by Dry Weight

Quant Limit - Lowest concentration reliably measured

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The University of Iowa

Date of report: 05-26-2010

Sample Number 2010014907
Date Received Project WMSF

Date Collected Collection Site Collection Town Emerson 11:30

Collection Town Emerson

Description
Reference
Collector
COOK

Purchase Order

Collector COOK DANIEL
Phone

Comments

Upon arrival, sample met container and preservation requirements for

the analysis requested;
EXCEPT: sample temperature exceeds 6 degrees celsius.

Please review carefully your sample results for additional analyte

comments or method exceptions.

Results of Analyses

Nitrate + Nitrite as N (Soil/Sludge)

	Concentration	Quantitation Limit
Analyte	mg/kg by dry wt	mg/kg by dry wt
Nitrate + Nitrite Nitrogen as N	12	5.0
Data A relamed, 05 20 2010	Analyzad et. Anlyza	Amalanda DD

Date Analyzed: 05-20-2010 Analyzed at: Ankeny Analyst: BR Method: EPA 353.2 Verified: LF

Description of units used within this report

mg/kg by dry wt - Milligrams per Kilogram by Dry Weight

Quant Limit - Lowest concentration reliably measured

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If you have any questions please call Client Services at 800/421-IOWA (4692) or 319/335-4500. Thank you.



The University of Iowa

Date of report: 05-26-2010

DANIEL COOK **IDNR CONTAMINATED SITES** WALLACE STATE OFFICE BLDG **502 EAST NINTH STREET DES MOINES IA 50319-0034**

2010014908 Sample Number Date Received 05-07-2010 Project WMSF

Date Collected 05-05-2010 10:50 Collection Site emerson farm supply Collection Town **Emerson**

soil Description Reference **GP-60** Collector Phone

Purchase Order

COOK DANIEL

Comments

Upon arrival, sample met container and preservation requirements for

the analysis requested;

EXCEPT: sample temperature exceeds 6 degrees celsius.

Please review carefully your sample results for additional analyte

comments or method exceptions.

Results of Analyses

Nitrate + Nitrite as N (Soil/Sludge)

	Concentration	Quantitation Limit
Analyte	mg/kg by dry wt	mg/kg by dry wt
Nitrate + Nitrite Nitrogen as N	42	5.0
Date Analyzed: 05-20-2010	Analyzed at: Ankeny	Analyst: BR

Method: EPA 353.2

Description of units used within this report

mg/kg by dry wt - Milligrams per Kilogram by Dry Weight

Quant Limit - Lowest concentration reliably measured

Verified: LF

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Iowa Environmental Laboratory IDs are: Ankeny #397, Iowa City #027, Lakeside #393.

If you have any questions please call Client Services at 800/421-IOWA (4692) or 319/335-4500. Thank you.



Hygienic Laboratory

LABORATORY The University of lowa			T_{ℓ}	ie Ui	niversity o	of Iow	ja .				4 (a.)	si in	Purchase Order #
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Sample ID/Description		Date	Time	W	Other		<u> </u>		+				Comments/UHL Sample Number
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2. Cop-02		45/10	10:10	x		$ \chi $							
3.6P-03		1 ,	12.25	T —		Х							
4. (p-10		5/5/10	9:30		<								
5. C.P. 14		5/5/10		7	<	X							
6.6P.20		5/5/10	10:10	ر		X							
7. (p. 24		5/3/10	1010	×		$ \chi $							
8.(rp.30)		5/5/10	12:25		<	X							
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The University of Iowa			Th	ie Uni	iversity c	of Io	wa.	era era		See ja 1 See ja 1	i P. S.	eseva Zak			Purchase Order #
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Contact Name			Phone			~ J. 1		i I	Analy:	sis Re	questé	d 🔅 🔭			Project Name and/or Number
Paniel Cook			515	281-	-4171									Į	Enerson Farm Supply Collector's Phone #
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Address			#. [\				•							i.	Print Collector's Name
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City			State			45								- 13	Collector's Signature
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Sample ID/Description		Date	Time		Other	~								85	Comments/UHL Sample Number
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2. CP- 50		15/10	11:30	X		Х							·		
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319-335-4500 Fax: 319-335-4555

515-725-1600 Fax: 515-725-1642