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BELING CONSULTANTS

Professional Engineering and Environmental Services

Con 12-1-1
Doc # 39425

July 31, 1995

Iowa Department of Natural Resources
Henry A. Wallace Building
900 East Grand Avenue
Des Moines, Iowa 50319

Attn: Mr. Cyrus Rustin, Environmental Engineer
Solid Waste Section

SUBJECT: CLINTON COUNTY AREA SOLID WASTE AGENCY
SANITARY DISPOSAL PROJECT - SEMI-ANNUAL REPORT
PERMIT NO: 23-SDP-2-74C (West Site)
OUR FILE: 21258-B-10,897-28

Gentlemen:

Enclosed please find the following information for the Clinton County Sanitary Disposal Projects for the period of January 1995 through June 1995.

- ✓ 1. Semi-annual engineering inspection reports.
- ✓ 2. Analytical results of the semi-annual groundwater well sampling of the West Site.

If you have any questions or comments, or if you require additional information, please contact this office.

Very truly yours,

BELING CONSULTANTS, INC.

Robert G. Meyer

Robert G. Meyer, P.E. - L.S.
Vice President
Iowa Reg. #6788 / expires 12/31/95

enc / pmd

cc: Charles Goddard, Adm. --- CCASWA-(w/enc)
Iowa DNR, Regional Office - Washington, IA (w/enc)
B.J. Fetter - Beling

Davenport • Moline • Chicago • Joliet • Peoria • Beloit • Columbus

1218 E. 37th Street, Suite Two, Davenport, Iowa 52807 • (319) 386-0517

DATE STAMP

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NATURAL RESOURCES
OF
STATEMENT



BELING CONSULTANTS

Professional Engineering and Environmental Services

May 5, 1995

Mr. Paul Reimers
Clinton County Area Solid Waste Agency
P.O.Box 996
Clinton, Iowa 52732

SUBJECT: CLINTON COUNTY SANITARY LANDFILL - MONTHLY REPORT
OUR FILE: 21258-B-10,897-28

Dear Mr. Reimers:

On May 4, 1995, Chuck Goddard and I observed the East and West Landfill Sites.

EAST LANDFILL SITE:

1. Satisfactory placement of refuse is occurring in Ravine #6.
2. The final cover has been placed on Ravine #5 south of the haul road, and has been seeded.
3. The wet weather area is designated north of the haul road in Ravine #6.
4. The haul road is in good condition, and has progressed west and south into Ravine #6.
5. The outlet ditch is in good condition; erosion is under control.
6. No standing water was observed in the working area, drainage appears adequate.
7. Collection facilities are running smoothly, and designated areas appear orderly.
8. Tires were picked up the first week of May.
9. A low area northeast of the leaf pile was noted and should be filled to eliminate ponding.
10. Beling will perform monitoring well measure-downs next week.
11. The Contractor has picked up blown trash along the fences, and the area looks neat.
12. We concur in the insurance company recommendation for removal of the storage shed next to the scale house for security and control of the drop-off area.
13. No areas of non-conformance were noted.

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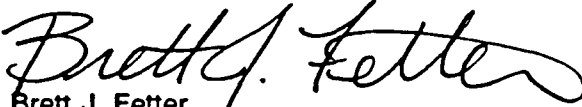
Mr. Paul Reimers
Clinton County Area Solid Waste Agency
May 5, 1995
Page 2

WEST LANDFILL SITE:

1. A small leachate spot was observed at the toe of the berm. The Contractor is directed to repair and extend the impermeable clay core of the berm in this area, and the rill uphill of this area.
2. An additional straw bale will be placed at the first ditch check at the northwest corner to discourage by-pass flows.
3. Additional straw bales will be placed at the southeast ditch check to stabilize the erosion.
4. Fill is required in the low spot at the west property line.
5. The seeding performed last Fall on the east 1/3 of the final cover is in very good condition.
6. The middle 1/3 of the cover area will be reseeded this Spring.
7. No visible signs of gas were detected.
8. No standing water was observed.
9. Beling will perform monitoring well measure-downs next week.

Sincerely,

BELING CONSULTANTS, INC.


Brett J. Fetter
Project Engineer

pmd

cc: Chuck Goddard - CCASWA
Rittmer Excavating, Inc.
R.G.Meyer - Beling/Moline

BELING CONSULTANTS

LABORATORY REPORT

June 17, 1995

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter
Beling Consultants, Inc.

Lab No. 69050
Received: March 15, 1995
Beling Job No. 21258 - Clinton Co. Landfill
West Site
Groundwater Sample MW-1

Ammonia Nitrogen, mg/L	0.60
Chemical Oxygen Demand, mg/L	<2
Chloride, mg/L	9
Dissolved Iron, mg/L	<0.03

BELING CONSULTANTS

LABORATORY REPORT

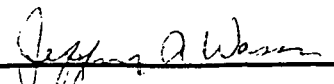
June 17, 1995

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter
Beling Consultants, Inc.

Lab No. 69051
Received: March 15, 1995
Beling Job No. 21258 - Clinton Co. Landfill
West Site
Groundwater Sample MW-1D

Ammonia Nitrogen, mg/L	0.87
Chemical Oxygen Demand, mg/L	18
Chloride, mg/L	6
Dissolved Iron, mg/L	<0.03



BELING CONSULTANTS

LABORATORY REPORT

June 17, 1995

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter
Beling Consultants, Inc.

Lab No. 69052
Received: March 15, 1995
Beling Job No. 21258 - Clinton Co. Landfill
West Site
Groundwater Sample MW-5

Ammonia Nitrogen, mg/L	0.10
Chemical Oxygen Demand, mg/L	38
Chloride, mg/L	222
Dissolved Iron, mg/L	<0.03

BELING CONSULTANTS

LABORATORY REPORT

June 17, 1995

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter
Beling Consultants, Inc.

Lab No. 69053
Received: March 15, 1995
Beling Job No. 21258 - Clinton Co. Landfill
West Site
Groundwater Sample MW-5BR

Ammonia Nitrogen, mg/L	0.66
Chemical Oxygen Demand, mg/L	43
Chloride, mg/L	222
Dissolved Iron, mg/L	<0.03

Jeffrey A. Wasson

BELING CONSULTANTS

LABORATORY REPORT

June 17, 1995

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter
Beling Consultants, Inc.

Lab No. 69054
Received: March 15, 1995
Beling Job No. 21258 - Clinton Co. Landfill
West Site
Groundwater Sample MW-4

Ammonia Nitrogen, mg/L	<0.05
Chemical Oxygen Demand, mg/L	9
Chloride, mg/L	11
Dissolved Iron, mg/L	0.04

Jeffrey A. Wilson

BELING CONSULTANTS

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Beling Job No. 21258 - Clinton Co. Landfill
West Site
Groundwater Sample MW-4D

Ammonia Nitrogen, mg/L	0.05
Chemical Oxygen Demand, mg/L	<2
Chloride, mg/L	13
Dissolved Iron, mg/L	<0.03

BELING CONSULTANTS

LABORATORY REPORT

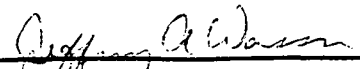
June 17, 1995

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter
Beling Consultants, Inc.

Lab No. 69056
Received: March 15, 1995
Beling Job No. 21258 - Clinton Co. Landfill
West Site
Groundwater Sample MW-3

Ammonia Nitrogen, mg/L	<0.05
Chemical Oxygen Demand, mg/L	<2
Chloride, mg/L	4
Dissolved Iron, mg/L	<0.03



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LABORATORY REPORT

June 17, 1995

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter
Beling Consultants, Inc.

Lab No. 69057
Received: March 15, 1995
Beling Job No. 21258 - Clinton Co. Landfill
West Site
Groundwater Sample MW-3D

Ammonia Nitrogen, mg/L	0.52
Chemical Oxygen Demand, mg/L	21
Chloride, mg/L	5
Dissolved Iron, mg/L	<0.03

BELING CONSULTANTS

LABORATORY REPORT

June 17, 1995

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter
Beling Consultants, Inc.

Lab No. 69058
Received: March 15, 1995
Beling Job No. 21258 - Clinton Co. Landfill
West Site
Groundwater Sample MW-3BR

Ammonia Nitrogen, mg/L	1.51
Chemical Oxygen Demand, mg/L	20
Chloride, mg/L	11
Dissolved Iron, mg/L	<0.03

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CHAIN OF CUSTODY

Professional Planning and Engineering • Environmental Laboratory

WEST SITE

Client Name: CLINTON COUNTY LANDFILL

Date Collected: 3-14-95

Project Location: CLINTON IOWA

Beling Job # 2125E

Samples Collected By: KELLY JAMES
(Print)

Kelly James
(Signature)

No. and Size of Containers	Sample/Description/Time	Testing Required*	Lab No.
1 PINT 1 Quart	MW-1	SEMIANNUAL SAMPLING SEE ATTACH.	69050
	MW-1 D		69051
	MW-5		69052
	MW-5 BR		69053
	MW-4		69054
	MW-4 D		69055
	MW-3		69056
	MW-3 D		69057
	MW-3 BR		69058

*Please indicate all parameters

Comments: _____

SAMPLE TRANSFERS

Relinquished By:		Accepted By:		
Name	Representing/Firm	Name	Representing/Firm	Date/Time
1) <u>KELLY JAMES</u>	<u>BELING'S</u>	<u>Jeffrey Ahlstrom</u>	<u>BELING</u>	<u>3-15-95</u>
(Print)		(Print)		
<u>Kelly James</u>		<u>Jeffrey Ahlstrom</u>		<u>8:00</u>
(Signature)		(Signature)		
2)		(Print)		
(Print)		(Signature)		
(Signature)		(Print)		
3)				
(Print)				
(Signature)		(Signature)		

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FORM 552-7/92

BELING CONSULTANTS

LABORATORY REPORT

June 17, 1995

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter
Beling Consultants, Inc.

Lab No. 69050
Received: March 15, 1995
Beling Job No. 21258 - Clinton Co. Landfill
West Site
Groundwater Sample MW-1

Ammonia Nitrogen, mg/L	0.60
Chemical Oxygen Demand, mg/L	<2
Chloride, mg/L	9
Dissolved Iron, mg/L	<0.03

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LABORATORY REPORT

June 17, 1995

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Received: March 15, 1995
Beling Job No. 21258 - Clinton Co. Landfill
West Site
Groundwater Sample MW-1D

Ammonia Nitrogen, mg/L	0.87
Chemical Oxygen Demand, mg/L	18
Chloride, mg/L	6
Dissolved Iron, mg/L	<0.03

Jeffrey A. Wasson

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LABORATORY REPORT

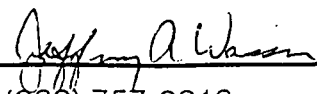
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Lab No. 69052
Received: March 15, 1995
Beling Job No. 21258 - Clinton Co. Landfill
West Site
Groundwater Sample MW-5

Ammonia Nitrogen, mg/L	0.10
Chemical Oxygen Demand, mg/L	38
Chloride, mg/L	222
Dissolved Iron, mg/L	<0.03



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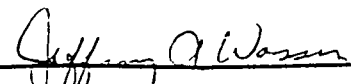
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West Site
Groundwater Sample MW-5BR

Ammonia Nitrogen, mg/L	0.66
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June 17, 1995

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Lab No. 69054
Received: March 15, 1995
Beling Job No. 21258 - Clinton Co. Landfill
West Site
Groundwater Sample MW-4

Ammonia Nitrogen, mg/L	<0.05
Chemical Oxygen Demand, mg/L	9
Chloride, mg/L	11
Dissolved Iron, mg/L	0.04

Jeffrey A. Wesson

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Mr. Brett Fetter
Beling Consultants, Inc.

Lab No. 69055
Received: March 15, 1995
Beling Job No. 21258 - Clinton Co. Landfill
West Site
Groundwater Sample MW-4D

Ammonia Nitrogen, mg/L	0.05
Chemical Oxygen Demand, mg/L	<2
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Lab No. 69056
Received: March 15, 1995
Beling Job No. 21258 - Clinton Co. Landfill
West Site
Groundwater Sample MW-3

Ammonia Nitrogen, mg/L	<0.05
Chemical Oxygen Demand, mg/L	<2
Chloride, mg/L	4
Dissolved Iron, mg/L	<0.03



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Lab No. 69057
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Beling Job No. 21258 - Clinton Co. Landfill
West Site
Groundwater Sample MW-3D

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Jeffrey A. Wasson

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LABORATORY REPORT

June 17, 1995

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Mr. Brett Fetter
Beling Consultants, Inc.

Lab No. 69058
Received: March 15, 1995
Beling Job No. 21258 - Clinton Co. Landfill
West Site
Groundwater Sample MW-3BR

Ammonia Nitrogen, mg/L	1.51
Chemical Oxygen Demand, mg/L	20~
Chloride, mg/L	11
Dissolved Iron, mg/L	<0.03

Jeffrey A. Wilson

BELING CONSULTANTS

CHAIN OF CUSTODY

Professional Planning and Engineering • Environmental Laboratory

WEST SITE

Client Name: CLINTON COUNTY LANDFILL

Date Collected: 3-14-95

Project Location: CLINTON IOWA

Beling Job # 2125E

Samples Collected By: KELLY JUNIS
(Print)

Kelly Junis
(Signature)

No. and Size of Containers	Sample/Description/Time	Testing Required*	Lab No.
1 PINT 1 Quart	MW-1	SEMIANNUAL SAMPLING SEE ATTACH.	69050
	MW-1 D		69051
	MW-5		69052
	MW-5 BR		69053
	MW-4		69054
	MW-4 D		69055
	MW-3		69056
	MW-3 D		69057
	MW-3 BR		69058

*Please indicate all parameters

Comments: _____

SAMPLE TRANSFERS

Relinquished By:		Accepted By:		
Name	Representing/Firm	Name	Representing/Firm	Date/Time
1) <u>KELLY JUNIS</u>	<u>BELING</u>	<u>Jeffrey Ahlstrom</u>	<u>BELING</u>	<u>3-15-95</u>
(Print)		(Print)		
<u>Kelly Junis</u>		<u>Jeffrey Ahlstrom</u>		<u>8:00</u>
(Signature)		(Signature)		
2)				
(Print)		(Print)		
(Signature)		(Signature)		
3)				
(Print)		(Print)		
(Signature)		(Signature)		