

Professional Engineering and Environmental Services

April 1, 1997

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: 21352-B-10,897-32

Gentlemen:

Enclosed please find the following information for the Clinton County Sanitary Disposal Projects for the period of June 1996 through December 1996.

1. Semi-annual engineering inspection reports.

2. Analytical results of the semi-annual groundwater well sampling of the West Site.

3. Monitoring well sampling forms.

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, P.E. - L.S.

Vice President

Iowa Reg. #6788 / expires 12/31/97

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

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Professional Engineering and Environmental Services

November 8, 1996

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: 21310-B-10,897-29

Dear Mr. Reimers:

On November 6, 1996, Chuck Goddard and I observed the East and West Landfill Sites.

EAST LANDFILL SITE:

- Satisfactory placement of refuse is occurring on the west side of Ravine #6.
- 2. The final cover has been completed on all of Ravine #5.
- 3. The new wet weather area is designated west of the haul road in Ravine #6 for Winter operations.
- 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. The small rills on the south side of the Ravine #5 berm have been corrected, and the seeding is becoming well established.
- 7. No standing water was observed in the working area.
- 8. Collection facilities are running smoothly, and designated areas appear orderly.
- 9. The demolition wood will be chipped on Tuesday, November 12, 1996.
- 10. Beling will perform monitoring well measure-downs next week.
- 11. No areas of non-conformance were noted.

Mr. Paul Reimers Clinton County Area Solid Waste Agency November 8, 1996 Page 2

Contractor has been submitting a monthly operating and maintenance report each month. 11.

WEST LANDFILL SITE:

- 1. Erosion has stabilized along the northeast swale.
- Erosion has been drastically reduced along the south swale. 2.
- Three straw bale ditch checks should be placed in the south swale, equally spaced from the 3. berm to the toe of the dike.
- Some minor bare spots and sparse vegetative cover were noted west of the cut-off berm. A no-4. till drilled overseeding is recommended.
- A small low-spot has developed along the west side of the cut-off berm. This area holds a small 5. amount of water and needs to be filled.
- No visible signs of leachate or gas were observed. 6.
- No other areas of non-conformance were noted. 7.
- A large erosion-sinkhole has developed along the entrance road 300 feet east of the waste area. 8. This is not related to landfill closure, but should be filled or marked for safety purposes.
- Beling will perform monitoring well measure-downs next week. 9.

Sincerely,

BELING CONSULTANTS, INC.

Brett J. Fetter /

Project Engineer

pmd

CC:

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

PROJECT NAI	ME CCAS	WA .	PR	oject # <u>213</u>	10 WELL # 1	NW-1
LOCATION _	Wast Site	o,		- · - .	SAMPLE ID #	
FIELD CREW		mc				····
	H TO WATER		(FT) DATE	9-27-9	6 TIME	
			·	LD CREW RE	t mc	/n n=1
PURGING	7, 7	•	ر.	α 24 α	<i>r</i>	(INITIALS) 1445
WELL - STIC	CKUP	(FT) ,DIAMETER	(·· /	.,	START TIME	
REF.PT. ELEV		<u>'YA</u> 18.82		LL DEPTH	18.82	(FT)
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WEATHER CO	ONDITIONS	Cold r	254/			
EVACUATI	ION/STABILIZATIO	N TEST DATA				
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PROJECT NA	ME CCAS	WA		OJECT # <u>213</u>	10 well # 1	MW-10
LOCATION _	111 - 2'/	<u></u>			SAMPLE ID #	
FIELD CREW	RE ¢.	mc		2 45 0	/	
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PROJECT NAME CCAS	WA	PRO	DJECT # <u>2131</u>	O WELL # 1	1W-3D
LOCATION WAST Six	0			SAMPLE ID #	
FIELD CREW RE # 1	mc		9-27-96		
NITIAL DEPTH TO WATER		(FT) DATE	1-21-90	TIME	
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1025 6.71	1089	10.7	5/	1/	N
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PROJECT NAM	E CCAS	WA	PR	oject # <u>213</u>	10 WELL # 1	NW-3
LOCATION _	WAST Site) /			SAMPLE ID #	
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0955	6.98	1169	11.5		3	12
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PROJECT NA	ME CCAS	WA		PROJECT #	2131E) WELL # _	MW-3BR
LOCATION _	WAST Site	>				SAMPLE ID # _	·
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TIME	pH UNITS	SPECIFIC CONDUCTANCE (umho/cm)	TEMPERATURE (DEGREES C)	L	ATER EVEL (FT)	CUMULATIVE VOLUME REMOVED (GALLOIS)	INITIALS
1110	7.78	639	12.2			21	10
1125	7.62	614	12.0			26	All
1140	7.65	606	11.8			32	THE .
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PROJECT NA	ME <u>CCASU</u>	JA		PROJECT # $2(3)$	<u>/</u>	MW-4
LOCATION .	West S	ite			SAMPLE ID #	
FIELD CREW	RE ¢	mc		0.16.0	, ,	711
INITIAL DEPT	H TO WATER	3,95	(FT) D	ATE 9-26-91	2 TIME	345
PURGING	G DATA		2	FIELD CREW		(INITIALS)
WELL - STI	ICKUP ~2	(FT) DIAMETER	(IN)	DATE 9-26-		
REF.PT. ELE	VATION	N/A	(FT MSL)	WELL DEPTH	1995 20 D	(FT)
DEPTH TO V	water <u>3</u> :	95	(FT)	DEPTH TO WATER _	3.95	(FT)
WATER SUR	FACE ELEVATION _	IN/A	(FT MSL)	WATER COLUMN HEIGH	, <u> </u>	(FT)
PURGING ME	THOD	ler		BOREHOLE VOLUME	. 0	(GAL)
WELL PURG	ED FOR	MINUTES AT A RATE	· 1 /	GPM A . VOLUME	- L	(GAL)
WEATHER C	ONDITIONS	Cold, W	undy Ct	Zin WELL PU		S NO
SAMPLIN	NG DATA			TILLED OTTER	EMC .	(INITIALS)
INITIAL DEPT	TH TO WATER	25,2	(FT)	DATE 9-26-	9C START TIME	
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WEATHER C	CONDITIONS		windy	Lt. Rain		
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	pH	SPECIFIC CONDUCTANCE	TEMPERATURE (DEGREES C)	LEVEL	VOLUME REMOVED	INITIALS
	pH	SPECIFIC CONDUCTANCE	TEMPERATURE (DEGREES C)	LEVEL	VOLUME REMOVED	INITIALS
	pH	SPECIFIC CONDUCTANCE (umho/cm)	(DEGREES C)	LEVEL	VOLUME REMOVED	INITIALS
	pH	SPECIFIC CONDUCTANCE (umho/cm)	(DEGREES C)	LEVEL	VOLUME REMOVED	INITIALS
	7.23	SPECIFIC CONDUCTANCE (umho/cm)	(DEGREES C)	LEVEL	VOLUME REMOVED	INITIALS
	7.23	SPECIFIC CONDUCTANCE (umho/cm)	(DEGREES C)	LEVEL	VOLUME REMOVED	INITIALS
	7.23	SPECIFIC CONDUCTANCE (umho/cm)	(DEGREES C)	LEVEL	VOLUME REMOVED	INITIALS
	7.23	SPECIFIC CONDUCTANCE (umho/cm)	(DEGREES C)	LEVEL	VOLUME REMOVED	INITIALS
1300 1315	7.23	SPECIFIC CONDUCTANCE (umho/cm)	(DEGREES C)	LEVEL	VOLUME REMOVED	INITIALS
	7.23	SPECIFIC CONDUCTANCE (umho/cm)	(DEGREES C)	LEVEL	VOLUME REMOVED	INITIALS
1300 1315	7.23	SPECIFIC CONDUCTANCE (umho/cm)	(DEGREES C)	LEVEL	VOLUME REMOVED	INITIALS
1300 1315	7.23	SPECIFIC CONDUCTANCE (umho/cm)	(DEGREES C)	LEVEL	VOLUME REMOVED	INITIALS
TIME 1300 1315 REMARKS	7.31 7.23	SPECIFIC CONDUCTANCE (umho/cm)	(DEGREES C)	LEVEL	VOLUME REMOVED	INITIALS
TIME 1300 1315 REMARKS BELI	7.31 7.23	SPECIFIC CONDUCTANCE (umho/cm) 2.74 2.51	(DEGREES C)	LEVEL (FT)	VOLUME REMOVED	INITIALS

PROJECT NA	AME CCAS	ωA		PROJECT # $2(3)$	10 WELL # _	MW-40
LOCATION	West 5	ite			SAMPLE ID #	 -
FIELD CREW	RE_	& MC				
INITIAL DEPI	TH TO WATER		(FT) DA	TE	TIME	
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WEATHER C	CONDITIONS	old & W	in dy			
EVACUAT	ION/STABILIZATIC	N TEST DATA				
TIME	pH UNITS	SPECIFIC CONDUCTANCE (umho/cm)	TEMPERATURE (DEGREES C)	WATER LEVEL (FT)	CUMULATIVE VOLUME REMOVED (GALLONS)	INITIALS
	7,38	1586	4.5	·	7	AL
	7.27	1547	12.5		14	NE
	7.24	1519	12.5	41.35	20	RE
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FIELD CREW	RE ¢.	mc		0 45 0	,	
INITIAL DEPTI	H TO WATER		(FT) DATE	9-27-96	2 TIME	
PURGING WELL — STK REF.PT. ELEV DEPTH TO W	DATA CKUP 2 2 VATION VATER THOD BACK THOD BACK TO FOR CONDITIONS NG DATA	(FT) DIAMETER N/A 8.6 N/A TR MINUTES AT A RATE DIA 11.78	FIEL (IN) DA' (FT MSL) WE (FT) DEF (FT MSL) WA OF GPE	LD CREW RE TE 9-27-90 LL DEPTH PITH TO WATER ATER COLUMN HEIGHT REHOLE VOLUME WELL PUT LD CREW RE	/	(INTIALS) (730) (FT) (FT) (GAL) (GAL) (GAL) (INITIALS) (1400)
METHOD .	BAIR	<u>C</u>				
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		1111 11	nish			
WEATHER CO	ONDITIONS	cow 11	(17T)			
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TIME	pH UNITS	SPECIFIC CONDUCTANCE (umho/cm)	TEMPERATURE (DEGREES C)	WATER (FT)	CUMULATIVE VOLUME REMOVED (GALLONS)	INITIALS
1335	6.58	2.11	13.8		/	AC.
1340	6.55	1945	13.8		3	A.
1355	6.49	1921	13.5	11.78	3	de
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	NAST Site) /			SAMPLE ID #	· · · · · · · · · · · · · · · · · · ·
FIELD CREW		nc			,	
INITIAL DEPTH	TO WATER		(FT) DATE	9-27-96	TIME	
PURGING METH WELL PURGED WEATHER CON SAMPLING	TION	TO DIAMETER — N/A 33.35 N/A TR MINUTES AT A RATE MINUTES AT A RATE MINUTES AT A RATE	2 (IN) DA _ (FT MSL) W _ (FT MSL) W _ (FT MSL) W _ (FT MSL) GA OF _ GA FI	ELL DEPTH EPTH TO WATER ATER COLUMN HEIGHT DREHOLE VOLUME	33.35 97.65 16.6 PURGED 26 RGED "DRY"? 1 YE	(FT) (FT) (FT) (GAL) (GAL) (SAL) (INITIALS)
INITIAL DEPTH	TO WATER - 7	<u> </u>	(FT)	ATE 1-21-76	START TIME	
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ODOR AND PH	YSICAL APPEARANC	E OF WATER				
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WEATHER CON	NUTTIONS	<u> </u>				
EVACUATIO	N/STABILIZATIO	N TEST DATA		1		
TIME	pH UNITS	SPECIFIC CONDUCTANCE (umno/cm)	TEMPERATURE (DEGREES C)	WATER LEVEL (FT)	CUMULATIVE VOLUME REMOVED (GALLONS)	INITIALS
1445	7.74	993	12.2		16	KU
1450	7.42	944	12.1		21	1 Chan
1455	1.89	956	11,2	39.45	1 25	AL
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LABORATORY REPORT

October 17, 1996

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter Beling Consultants, Inc.

Lab No. 78420 Job No. 21310

Received: September 27, 1996

Clinton County Landfill - West Landfill Collection Point: West Landfill - MW-3

Collected: September 27, 1996

Ammonia Nitrogen, mg/L	<0.05
Chemical Oxygen, mg/L	7
Chloride, mg/L	<5
Dissolved Iron, mg/L	0.03
Total Phenols, mg/L	0.005
Total Organic Halogens, mg/L	<0.005

 $\textbf{Moline} \cdot \textbf{Chicago} \cdot \textbf{Joliet} \cdot \textbf{Peoria} \cdot \textbf{Beloit} \cdot \textbf{Davenport} \cdot \textbf{Columbus}$

Jeffing a Wassen

- Beling Building 1001 - 16th Street Moline, IL 61265 (309) 757-9800 Fax (309) 757-9812

LABORATORY REPORT

October 17, 1996

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter Beling Consultants, Inc.

Lab No. 78421 Job No. 21310

Received: September 27, 1996 Clinton County Landfill - West Landfill Collection Point: West Landfill - MW-3D

Collected: September 27, 1996

Ammonia Nitrogen, mg/L	0.42
Chemical Oxygen, mg/L	183
Chloride, mg/L	<5
Dissolved Iron, mg/L	0.25
Total Phenols, mg/L	0.066
Total Organic Halogens, mg/L	<0.005

 $\textbf{Moline} \cdot \textbf{Chicago} \cdot \textbf{Joliet} \cdot \textbf{Peoria} \cdot \textbf{Beloit} \cdot \textbf{Davenport} \cdot \textbf{Columbus}$

Beling Building 1001 - 16th Street Moline, IL 61265 (309) 757-9800 Fax (309) 757-9812

LABORATORY REPORT

October 17, 1996

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter Beling Consultants, Inc.

Lab No. 78422 Job No. 21310

September 27, 1996 Received:

Clinton County Landfill - West Landfill Collection Point: West Landfill - MW-3BR

Collected: September 27, 1996

Ammonia Nitrogen, mg/L	1.49
Chemical Oxygen, mg/L	112
Chloride, mg/L	<5
Dissolved Iron, mg/L	0.11
Total Phenols, mg/L	<0005
Total Organic Halogens, mg/L	<0.005

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Beling Building 1001 - 16th Street Moline, IL 61265 (309) 757-9800 Fax (309) 757-9812

LABORATORY REPORT

October 17, 1996

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter Beling Consultants, Inc.

Lab No. 78423 Job No. 21310

Received: September 27, 1996

Clinton County Landfill - West Landfill Collection Point: West Landfill - MW-5

Collected: September 27, 1996

Ammonia Nitrogen, mg/L			
Chemical Oxygen, mg/L			
Chloride, mg/L			
Dissolved Iron, mg/L			
Total Phenols, mg/L	0.024		
Total Organic Halogens, mg/L	0.038		

Moline · Chicago · Joliet · Peoria · Beloit · Davenport · Columbus

Jeffy a. Wassen

LABORATORY REPORT

October 17, 1996

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter Beling Consultants, Inc.

Lab No. 78424 Job No. 21310

Received: September 27, 1996

Clinton County Landfill - West Landfill Collection Point: West Landfill - MW-5BR

Collected: September 27, 1996

Ammonia Nitrogen, mg/L			
Chemical Oxygen, mg/L			
Chloride, mg/L			
Dissolved Iron, mg/L			
Total Phenols, mg/L	<0.005		
Total Organic Halogens, mg/L	<0.005		

 $\textbf{Moline} \cdot \textbf{Chicago} \cdot \textbf{Joliet} \cdot \textbf{Peoria} \cdot \textbf{Beloit} \cdot \textbf{Davenport} \cdot \textbf{Columbus}$

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LABORATORY REPORT

October 17, 1996

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter Beling Consultants, Inc.

Lab No. 78425 Job No. 21310

Received: September 27, 1996

Clinton County Landfill - West Landfill Collection Point: West Landfill - MW-1

Collected: September 27, 1996

Ammonia Nitrogen, mg/L				
Chemical Oxygen, mg/L				
Chloride, mg/L	<5			
Dissolved Iron, mg/L	0.09			
Total Phenols, mg/L	0.007			
Total Organic Halogens, mg/L	<0.005			

 $\textbf{Moline} \cdot \textbf{Chicago} \cdot \textbf{Joliet} \cdot \textbf{Peoria} \cdot \textbf{Beloit} \cdot \textbf{Davenport} \cdot \textbf{Columbus}$

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LABORATORY REPORT

October 17, 1996

Professional Planning and Engineering • Environmental Laboratory

Mr. Brett Fetter Beling Consultants, Inc.

Lab No. 78426 Job No. 21310

September 27, 1996 Received:

Clinton County Landfill - West Landfill Collection Point: West Landfill - MW-1D

Collected: September 27, 1996

Ammonia Nitrogen, mg/L				
Chemical Oxygen, mg/L				
Chloride, mg/L	<5			
Dissolved Iron, mg/L	<0.03			
Total Phenols, mg/L	<0.005			
Total Organic Halogens, mg/L	<0.005			

Moline · Chicago · Joliet · Peoria · Beloit · Davenport · Columbus

Beling Building 1001 - 16th Street Moline, IL 61265 (309) 757-9800 Fax (309) 757-9812

CHAIN OF CUSTODY

Professional	I Planning and Eng	ineering • Environme	ental Laboratory			
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Project Loca	ation:	ZI Fla		Beiling Job #		
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	mw-5BR	2	1430		78424	
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