

April 29, 2016

Mr. Mick Leat  
Iowa Department of Natural Resources  
Land Quality Bureau  
Wallace State Office Building  
502 East 9<sup>th</sup> Street  
Des Moines, Iowa 50319-0034

**Re: Spring 2016 Semi-Annual Inspection Report  
Council Bluffs C&D Landfill  
Permit No. 78-SDP-04-89C  
Project No. ANDEX 16001**

Dear Mick:

This brief report documents the semi-annual inspection required by the facility's Iowa Department of Natural Resources Sanitary Disposal Project Permit and the Iowa Administrative Code. The semi-annual inspection was made to evaluate the site's conformance with the permit and the approved plans and specifications.

If you have any questions regarding this report, please contact us at (515) 256-8814.

Sincerely,  
BARKER LEMAR ENGINEERING CONSULTANTS



Christine C. Richter, P.E.  
Project Manager



Brian L. Rath, P.E.  
Project Manager

Copies    Addressee  
            Mr. Virgil Anderson, Anderson Excavating  
            File  
            Electronic File

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**Site Inspection Report  
Spring 2016**

**Council Bluffs C&D Landfill  
Council Bluffs, Iowa  
Permit No. 78-SDP-04-89C  
Project No. ANDEX 16001**


**Prepared For:**

**Anderson Excavating**

**Prepared By:**

**BARKER LEMAR ENGINEERING CONSULTANTS**

**1801 Industrial Circle  
West Des Moines, Iowa 50265  
Phone: (515) 256-8814  
Fax: (515) 256-0152**

 <p><b>CHRISTINE C. RICHTER 17963</b> IOWA</p>	<p>I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.</p> <p><u>Christine C Richter</u> Date: <u>4/29/16</u> Christine C. Richter, P.E. License No. 17963 My license renewal date is December 31, 2016 Pages or sheets covered by this seal: Entire Document</p>
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## **1.0 INTRODUCTION**

The facility was inspected on April 13, 2016 by Christine Richter, PE with BARKER LEMAR ENGINEERING CONSULTANTS. The facility appeared to be in general conformance with the items listed in the General Provisions and Special Provisions sections of the April 11, 2016 closure permit.

The site map used during the inspection is included as Figure 1. Please note that the topography represented on the map has changed; an updated map will be generated upon completion of closure. The checklist located in Attachment A was used as a guide during the inspection.

## **2.0 OBSERVED CONDITIONS**

The following summarizes the activities or conditions observed during the inspection:

- The placement of cap soils has been completed as part of the facility closure. However, sparse vegetation and limited erosion and sediment control was present on site, which has led to multiple erosion rills throughout the closure area.
- It is recommended that cover repairs and seeding be completed and stormwater, erosion, and sediment controls be installed as soon as practical.
- No ponding water or leachate seeps were noted at the time of the inspection.

## **3.0 NON-CONFORMANCE WITH PERMIT CONDITIONS**

No items of non-conformance with the permit conditions were observed during the inspection visit.

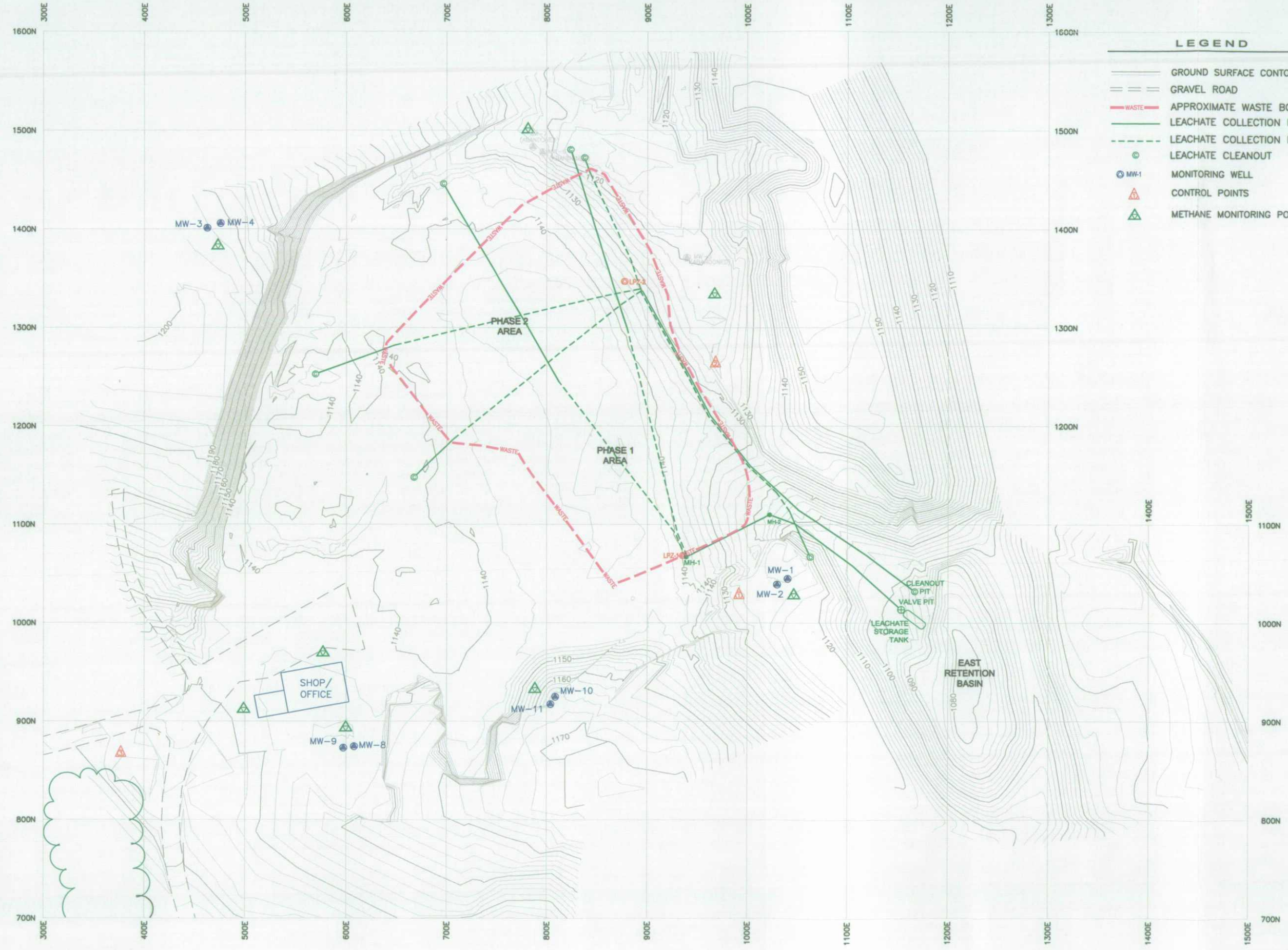
## **4.0 GENERAL COMMENTS**

The observations presented in this report were based upon data obtained from the field observations made at the site, interviews with the site operator, and from information sources discussed in this report. This report provides a snapshot in time of the conditions present at the time of the inspection and does not reflect variations in operating conditions that may occur throughout the year.

BARKER LEMAR has prepared this report for the exclusive use of our client. The report is meant for the specific application discussed and has been prepared in accordance with generally accepted engineering practices. No warranties, either expressly stated or implied, are intended or made.

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SCALE  
0 50 100 FT.  
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- LEGEND**
- GROUND SURFACE CONTOUR
  - GRAVEL ROAD
  - WASTE --- APPROXIMATE WASTE BOUNDARY
  - LEACHATE COLLECTION PIPING (SOLID)
  - - - LEACHATE COLLECTION PIPING (PERFORATED)
  - ⊙ LEACHATE CLEANOUT
  - ⊙ MW-1 MONITORING WELL
  - △ CONTROL POINTS
  - △ METHANE MONITORING POINT

REVISION	DATE	DESCRIPTION
1		
2		
3		
4		

COUNCIL BLUFFS C & D LANDFILL  
COUNCIL BLUFFS, IOWA  
PROJECT NO. ANDEX 16001  
DRAWING DATE: APRIL 2016

**INSPECTION MAP**  
**APRIL 13, 2016**

**BARKERLEMAR**  
ENGINEERING CONSULTANTS  
1801 Industrial Circle - West Des Moines, Iowa - 50265  
Phone: 515.256.8814 - Fax: 515.256.0152 - www.barkerleamar.com

FIGURE  
**1**



**APPENDIX A**  
**INSPECTION CHECKLIST**

# SOLID WASTE LANDFILLS OBSERVATION CHECKLIST

## BARKER LEMAR ENGINEERING CONSULTANTS

FACILITY INFORMATION			
Facility:	<u>Anderson Excavating Company C&amp;D Landfill</u>	Permit No.:	<u>78-SDP-4-89P</u>
Location:	<u>Council Bluffs, Iowa</u>	Permit Issued:	<u>March 14, 2008</u>
Type:	<u>Construction &amp; Demolition</u>	Permit Expires:	<u>March 14, 2011</u>

INSPECTION INFORMATION			
Operator:	<u>Randy Miller</u>	Inspector:	<u>Christine C. Richter, P.E.</u>
Other Personnel:	<u></u>	Engineer:	<u>Christine C. Richter, P.E.</u>
Date:	<u>April 13, 2016</u>		

WEATHER CONDITIONS			
Wind:	<u>SSE 14 mph</u>	Temperature:	<u>75° F</u>
Other:	<u>Sunny</u>		

### A. PLAN REQUIREMENTS AND OPERATING PROCEDURES

- 1) Is the landfill identification, phone number, hours and days open, and categories of waste accepted indicated on a sign at the landfill entrance?
- 2) Is lockable entrance gate and all perimeter fences in good repair?
- 3) Is the landfill office being maintained?
- 4) Are daily records being kept?
- 5) Is a copy of the operating permit on file at the landfill office?
- 6) Is there a copy of the landfill plans and specifications on file at the landfill office?
- 7) Is the entrance road into landfill in the good condition?
- 8) Is an all weather area available for adverse conditions?
- 9) Is solid waste being unloaded in the proper locations in accordance with the plans?
- 10) Is solid waste being spread and compacted properly?
- 11) Is daily cover being provided as required?
- 12) Is intermediate and final cover being provided as required?
- 13) Are fill elevations being maintained according to plans?
- 14) Are excavation elevations being maintained prior to accepting solid waste as per the plans?
- 15) Have any sand pockets or major sand seams been encountered during excavation?
- 16) Have current work areas been properly staked according to plans?
- 17) Is all required equipment available at the landfill site?
- 18) Is operational equipment in good repair and operating in good repair?
- 19) Is back-up equipment available?
- 20) Is litter being controlled properly?
- 21) Are litter fences in place and being used?
- 22) Has topsoil been placed on completed portions of the landfill?
- 23) Have completed areas been properly graded and seeded according to the specifications?
- 24) Are completed areas of the landfill showing adequate growth of grass?
- 25) Is drainage and erosion control being maintained on completed areas of the landfill?
- 26) Is there evidence of leachate on the surface in completed areas of the landfill?
- 27) Is there any leachate flows leaving the landfill site?
- 28) Is there evidence of landfill gas problems?
- 29) Is there evidence of open burning?
- 30) Is there evidence of rodents or insects as a result of improper landfilling operations?
- 31) Does the landfill accept demolition and construction wastes in a separate location?
- 32) Are demolition and construction wastes being properly disposed of?
- 33) Are sanitary facilities available at the landfill site?
- 34) Is a telephone available at the landfill?
- 35) Is fire control available at the landfill site?

Yes	No	Comments
X		As required by City of Council Bluffs
X		
X		N/A
X		
X		
X		
		N/A
		N/A
		N/A
		N/A
X		
X		
		N/A
	X	
X		
X		
		N/A
		N/A
		N/A
		N/A
X		
	X	
	X	
	X	See Section 2.0.
	X	
	X	
	X	
	X	
		N/A
		N/A
		N/A
		N/A
		N/A
		N/A

# SOLID WASTE LANDFILLS OBSERVATION CHECKLIST

## BARKER LEMAR ENGINEERING CONSULTANTS

### B. HYDROGEOLOGICAL MONITORING SYSTEM PLAN

- 1) Has a hydrogeologic study been completed for the landfill?
- 2) Has a monitoring system plan been completed?
- 3) Are monitoring wells in good condition?
- 4) Are monitoring wells marked and identified?
- 5) Have monitoring wells/surface points been sampled according to the permit schedule?
- 6) Have the water sample test results been submitted to IDNR?

Yes	No	Comments
X		
X		
X		
X		
X		
X		

### C. LEACHATE CONTROL

- 1) Has the landfill submitted plans/specifications for a leachate collection/treatment system?
- 2) Has the approved leachate collection and treatment system been constructed?
- 3) Does the landfill have permit from the local POTW to discharge leachate?

Yes	No	Comments
X		
X		
X		

### D. MISCELLANEOUS REQUIREMENTS

- 1) Is a certified landfill operator on site?
- 2) Has a Closure/Post-Closure Plan been submitted to IDNR?
- 3) Are the SWA reports completed/submitted to IDNR quarterly?
- 4) Has the landfill received petroleum contaminated soil recently?
- 5) Has a quarterly soil sample been collected/analyzed of the aerated petroleum impacted soil?
- 6) Does the landfill have a permit amendment for recycling?

Yes	No	Comments
		N/A
X		
		N/A
	X	
		N/A
	X	

N/A indicates Not Applicable for a landfill no longer accepting waste.