

August 8, 2025
File No. 27223536.00

Mr. Brian Rath, P.E.
Iowa Department of Natural Resources
Land Quality Bureau
6200 Park Ave, Suite 200
Des Moines, Iowa 50321

Subject: Leachate Piezometer Installation
Anderson Excavating C&D Landfill
Permit No. 78-SDP-04-89C

Dear Brian:

SCS Engineers, on behalf of Anderson Excavating, is submitting the boring log and well construction information following the installation of leachate piezometers at the Anderson Excavating C&D Landfill.

Leachate piezometers LPZ-3, LPZ-4, LPZ-5, LPZ-6, and LPZ-7 were installed approximately five feet above the clay liner in accordance with DNR correspondence dated March 3, 2025 (Doc #112434).

The boring logs and construction documentation for the installed leachate piezometers are included in Attachment A. A site map including the locations of the leachate piezometers is included in Drawing 1.

If you have any questions regarding this submittal, please contact Sean Marczewski at (712) 661-9682.

Sincerely,



Sean Marczewski
Senior Project Professional
SCS Engineers

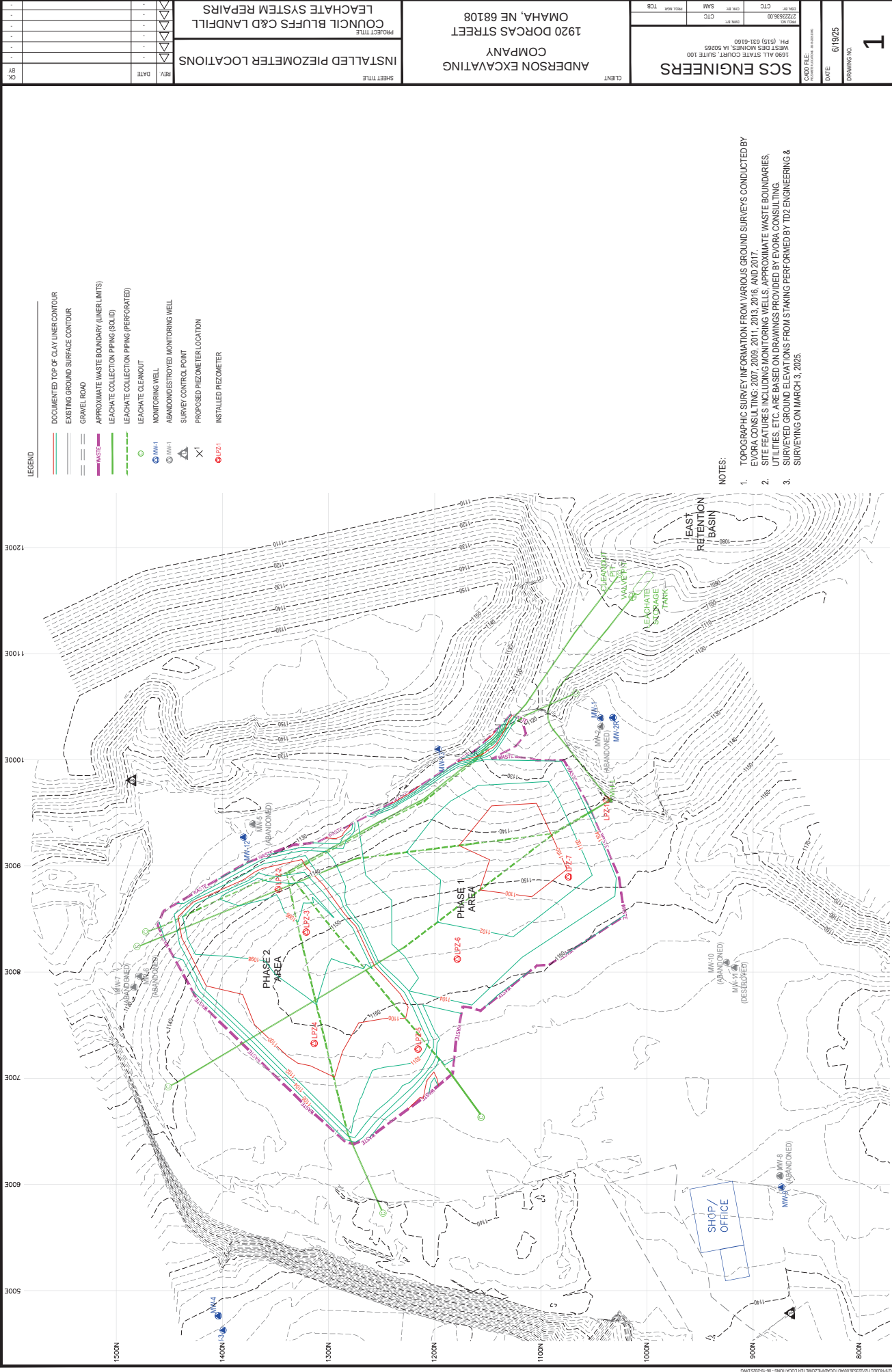


Nathan Ohrt
Senior Project Professional
SCS Engineers

SAM/NPO

Copies: Ms. Virginia Anderson – Anderson Excavating





Attachment A

Leachate Piezometer Boring Log and Construction Forms

WELL RECORD FORM

PWSID# or PWTS No.

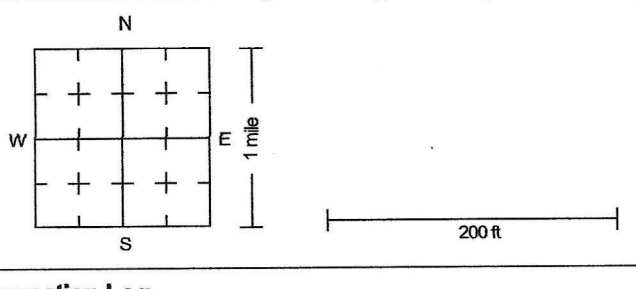
PWTS Permit No.

GeoSam WNumber (IGS use only)

Site Identification

Property owner Anderson Excavating Other ID LP2-3
Address 2520 E Kansas Ave City Council Bluffs
Tenant _____
Well depth 44 ft Date completed 5/19/25

Location

County Pottawattamie
GPS coordinates (NAD83 datum)
41.2835967 Latitude -95.8148749 Longitude _____
☒ Decimal Degrees ☐ Degrees, Decimal Minutes ☐ Degrees, Minutes, Seconds
____ 1/4 of the ____ 1/4 of the ____ 1/4 of Sec ____ TWP ____ RNG ____ W
Show exact location of well in section grid with a dot (•). Sketch map of well location on property.


Formation Log

From	To	Color	Hardness	Formation description
0	44	Brn	Firm	Loess + C&D Waste

Remarks (including depth of lost drilling fluids, materials, or tools)

Well Use

☐ Domestic ☐ Public supply ☐ Livestock
☐ Heat pump ☐ Commercial ☐ Irrigation
of borehole(s) ☒ Monitoring ☐ Other _____

Drill Method

☐ Rotary ☒ Auger ☐ Cable ☐ Other _____

Hole size

6.25 inch from 0 ft to 44 ft
____ inch from ____ ft to ____ ft

Casing, Screen and/or Loop Pipe

Record all depth measurements from ground level (GL). Use + for above GL measurements.

Size (in)	Material	Depth Top (ft)	Depth Bottom (ft)	Perforated	Slotted	Screen
2	pvc	0	34	☐	☐	☐ slot size _____
2	pvc	34	44	☐	☒	☒ slot size <u>.010</u>
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____
				☐	☐	☐ slot size _____

☐ Gravel packed 32 44 amount 7 variety Sand
☐ Seals/packers _____ type _____
☐ Bottom capped with _____

Casing Grout

Type _____ Depth Top _____ Depth Bottom _____ Amount (vol/wt) _____
Chips Bentonite 4 4 50#

Pump Installation

Date ____/____/____ Depth to intake _____ ft
Type of pump _____ Rated capacity _____ GPM
Pump diameter _____ in Final Yield _____ GPM

Well Development and Water Information

Date ____/____/____

Static Water Level	Pumping Water Level	Yield	Duration
<u> </u> ft	<u> </u> ft	<u> </u> GPM	<u> </u> hrs

Water level measurement:

☐ Sonic ☐ Tape ☐ Airline ☒ E-line ☐ Estimate

Water yield measurement:

☐ Orifice ☐ Volumetric ☐ Estimate
Main water-supply zone from _____ ft to _____ ft below GL

Well Development

Explain: Dry

Well Disinfection

System Water Volume _____ gal/ft³ Chemical _____
Chemical Concentration _____ mg/L Contact Time _____ hrs

Certified Well Driller

Company O'Malley Inc
Name Blair Barr Certification no. 12460

Certified Pump Installer

Company _____
Name _____ Certification no. _____

WELL RECORD FORM

[illegible]

PWSID# or PWTS No.		PWTS Permit No.		GeoSam WNumber (IGS use only)	
Site Identification					
Property owner <u>Anderson Excavating</u>		Other ID <u>LPZ-5</u>			
Address <u>2520 Knoxville Blvd</u>		City <u>Cornell Bluffs</u>			
Tenant _____					
Well depth <u>41</u> ft		Date completed <u>5 / 14 / 2025</u>			
Location					
County _____					
GPS coordinates (NAD83 datum)					
<u>41.283331</u> Latitude		<u>-95.8153503</u> Longitude			
☒ Decimal Degrees ☐ Degrees, Decimal Minutes ☐ Degrees, Minutes, Seconds					
_____ 1/4 of the _____ 1/4 of the _____ 1/4 of Sec _____ TWP _____ RNG _____ E _____ W _____					
Show exact location of well in section grid with a dot (•). Sketch map of well location on property.					
Formation Log					
From	To	Color	Hardness	Formation description	
<u>0</u>	<u>41</u>	<u>Bru</u>	<u>firm</u>	<u>Loess + C+D waste</u>	
Drill Method ☐ Rotary ☒ Auger ☐ Cable ☐ Other _____					
Hole size				hole size continued	
<u>6.25</u> inch from <u>0</u> ft to <u>41</u> ft				_____ inch from _____ ft to _____ ft	
_____ inch from _____ ft to _____ ft				_____ inch from _____ ft to _____ ft	
Casing, Screen and/or Loop Pipe					
Record all depth measurements from ground level (GL). Use + for above GL measurements.					
Size (in)	Material	Depth Top(ft)	Depth Bottom(ft)	Perforated	Screen
<u>2</u>	<u>pvc</u>	<u>0</u>	<u>31</u>	☐	☐ slot size _____
<u>2</u>	<u>pvc</u>	<u>31</u>	<u>41</u>	☒	☒ slot size <u>0.10</u>
				☐	☐ slot size _____
				☐	☐ slot size _____
				☐	☐ slot size _____
☐ Gravel packed		<u>29</u>	<u>41</u>	amount <u>7</u> variety <u>Sand</u>	
☐ Seals/packers		type _____			
☐ Bottom capped with _____					
Casing Grout					
Placement method _____					
Type		Depth Top	Depth Bottom	Amount (vol/vol)	
<u>Chips Bentonite</u>		<u>1</u>	<u>4</u>	<u>50 #</u>	
Pump Installation					
Date ____/____/____ Depth to intake _____ ft					
Type of pump <u>DA</u> Rated capacity _____ GPM					
Pump diameter _____ in Final Yield _____ GPM					
Well Development and Water Information					
Date ____/____/____					
Static Water Level	Pumping Water Level	Yield	Duration		
<u>DA</u> ft	_____ ft	_____ GPM	_____ hrs		
Water level measurement: ☐ Sonic ☐ Tape ☐ Airline ☒ E-line ☐ Estimate					
Water yield measurement: ☐ Orifice ☐ Volumetric ☐ Estimate					
Main water-supply zone from _____ ft to _____ ft below GL					
Well Disinfection					
System Water Volume _____ gal/ft ³ Chemical _____					
Chemical Concentration _____ mg/L Contact Time _____ hrs					
Certified Well Driller					
Company <u>O'Malley Inc.</u>					
Name <u>Blair Barr</u> Certification no. <u>12460</u>					
Certified Pump Installer					
Company _____					
Name _____ Certification no. _____					
Remarks (including depth of lost drilling fluids, materials, or tools)					
Well Use					
☐ Domestic ☐ Public supply ☐ Livestock ☐ Heat pump ☐ Commercial ☐ Irrigation # of borehole(s) _____ ☒ Monitoring ☐ Other _____					

WELL RECORD FORM

[illegible]

WELL RECORD FORM

[illegible]