

October 26, 2023
File No. 23212007.11

Mr. Dylan Dyer
Ohio EPA Southwest District Office
401 East Fifth Street
Dayton, Ohio 45402-2911

Subject: Closed St. Bernard Landfill, Rule 513-400 Application

Dear Mr. Dyer:

Village of St. Bernard intends to measure the methane content with a direct push style drilling rig at five locations within the limits of waste at the closed St. Bernard Landfill as part of an investigation to evaluate the potential to apply to end gas monitoring at the landfill as described in Ohio EPA DMWM GD#0657 (December 2017). This letter is the application prepared per OAC 3745-513-400, Application Procedures for Sampling, Testing, or Delineating the Limits of Waste.

OAC 3745-513-400 (A)(1) & (2).

The closed Village of St. Bernard Landfill is located south of Bank Avenue, east of I-75 in the Village of St. Bernard, Hamilton County, Ohio. The site location is shown on Figure 1 in Attachment A. The site consists of 4 parcels:

- 582-007-0002-90
- 582-007-0207-90
- 582-007-0262-90
- 582-007-0287-00

The limits of waste include approximately 3 acres as shown on Figure 2 in Attachment A.

OAC 3745-513-400 (A)(3)

The sampling will occur in November 2023 following OEPA approval of this application or after the end of the 15 day period after which this application becomes self-implementing, weather permitting. If the project is delayed beyond November, SCS will notify Ohio EPA before the start of field work.

OAC 3745-513-400 (A)(4).

The sampling will be performed using a direct push style drilling rig. Soil samples will be used to verify the thickness of the cap. The drilling rods will extend no more than 10 feet below the surface, approximately 5 feet into the waste. The proposed locations of the probes are shown on Figure 2. Bentonite seal will be placed in the probe hole after sampling has been completed.



OAC 3745-513-400 (A)(5)

CERTIFICATION STATEMENT

I certify that the proposed investigation will be performed in compliance with OAC 3745-513-450 as described below. The herein is, to the best of my knowledge and belief, true, accurate, and complete.


(Signature)

Tom Paul, Township Service Manager, Village of St. Bernard
(Name)

OAC 3745-513-450

- (A) No greater than two cubic yards of waste will be disturbed per sample location. The direct push drilling method will not bring any significant quantity of waste to the surface.
- (B) The maximum proposed depth of advancement of the direct push rods, assuming 5 feet of cover soil, is 10 feet. A direct push style drilling method will be used.
- (C) The boreholes will not extend through the bottom of waste so there will be no opportunity for vertical migration of liquid to underlying groundwater zones.
- (D) No hazardous waste will be generated during the drilling and probe installation.
- (E) No liquid waste will be generate during the drilling and probe installation.
- (F) The collection of the gas samples will result in the backfilling of the sampling holes within 48 hours after creation.
- (G) The sampling hole will be backfilled with bentonite to seal the cover soil.
- (H) No borehole will extend through the waste/below the vertical limits of waste so cement or bentonite grout will not be needed to prevent the vertical migration of liquid through the borehole or probe.

OAC 3745-513-400 (A)(6).

Additional information regarding the activities at the site can be obtained from:

Mr. Tom Paul, Service Manager
Village of St. Bernard
110 Washington Avenue
St. Bernard, Ohio 45217
(513) 242-7770

or
Randall Mills
SCS Engineers
625 Eden Park Drive, Suite 425
Cincinnati, OH 45202
(513) 826-4177

OAC 3745-513-400 (A)(7).

See the signature in the certification statement above.

OAC 3745-513-400 (A)(8).

Damage to the landfill cover that may occur as the drill rig and/or support vehicle(s) move across the landfill will be repaired by the Village of St. Bernard.

OAC 3745-513-400 (A)(9).

No other information is deemed necessary at this time.

OAC 3745-513-470.

A certification report will be prepared and submitted within thirty days of the completion of the installation of the probes.

Sincerely,



Randall C. Mills
Senior Project Scientist
SCS Engineers



James J. Walsh, P.E.
Project Director
SCS Engineers

RCM/AJD

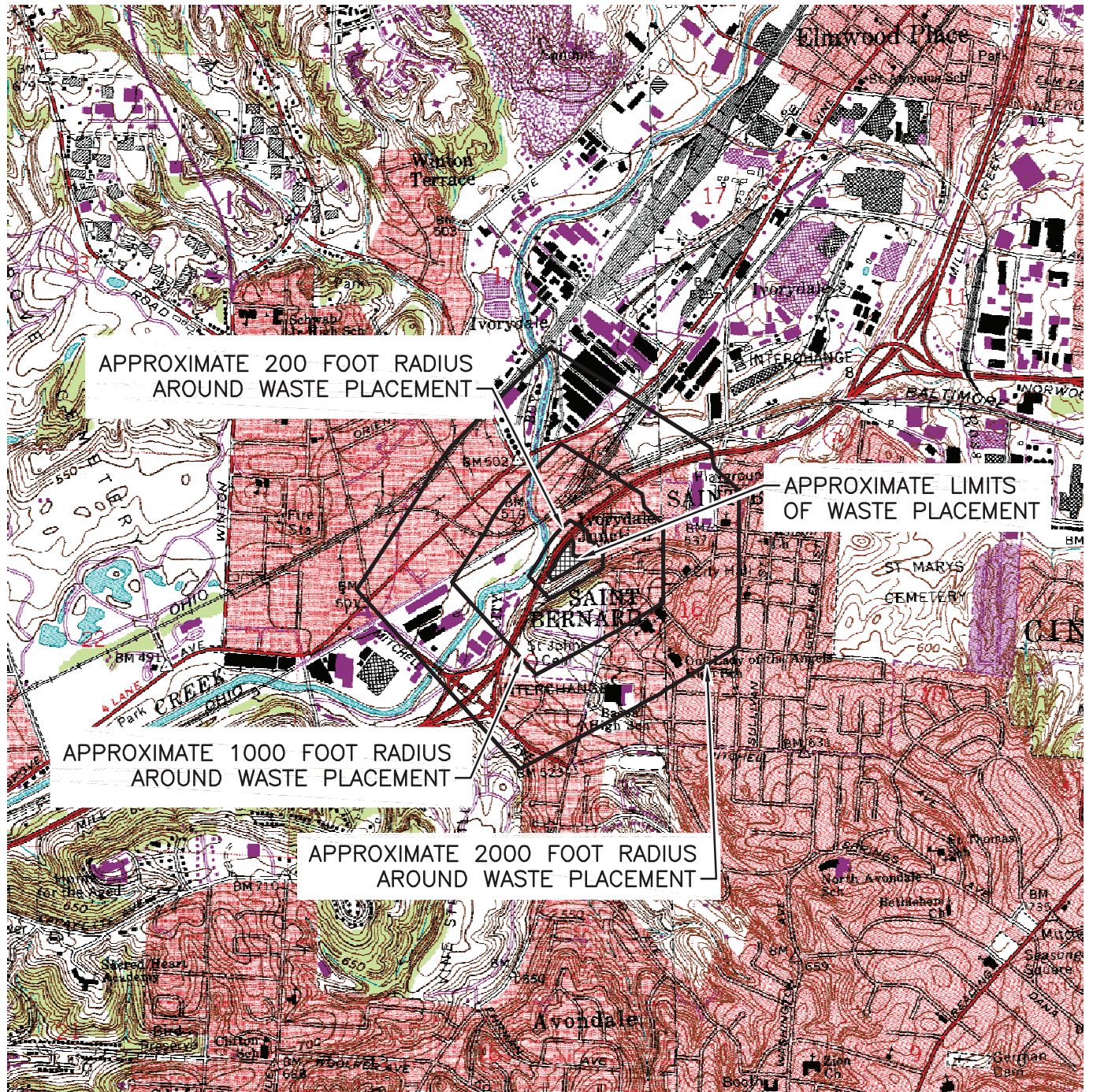
cc: Tom Paul, Village of St. Bernard
Nick Schapman, GHD
Hamilton County Health Department

Encl.

Attachment A

Figures

G:\PROJECTS\2001\210158\DWG\210158 SITE LOC.dwg DSNOK - JANUARY 29, 2004 - 07:51:41 XREFS:



1000 500 0 500 1000 2000
SCALE: 1"=2000'



SOURCE: USGS 7.5 MINUTE QUADRANGLES CINCINNATI EAST, OHIO, 1961 PHOTOREVISED 1981 AND CINCINNATI WEST, OHIO, 1961, PHOTOREVISED 1981, PHOTOINSPECTED 1986.



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Chicago, IL

Indianapolis, IN
St. Louis, MO

SITE VICINITY MAP
FORMER BANK AVENUE LANDFILL
ST. BERNARD, OHIO
HAMILTON COUNTY

DWN BY: MTM

SCALE:

AS NOTED

DATE:

MAY 2003

PROJECT NO:

210158

FIGURE NO:

1

A north arrow pointing upwards, consisting of a black circle with a white arrow inside. Below the arrow is the text "NORTH". Below the text is a scale bar in feet, marked from 0 to 100 with increments of 50.

SCS ENGINEERS STEARNS, CONRAD AND SCHMIDT CONSULTING ENGINEERS, INC. 2060 READING ROAD, CINCINNATI, OH 45202 PH. (513) 421-5553 FAX: (513) 421-2847	CADD FILE: Figure 3		CLIENT VILLAGE OF ST. BERNARD 110 WASHINGTON AVENUE ST. BERNARD, OHIO 45217	SHEET TITLE SITE MAP	REV. DATE 8/24/21	DESCRIPTION REMOVED OWNER NAMES/HOUSES	CK. BY
	PREL. NO. 23212007.02 DES. BY: ADF DIM. BY: CHG. BY: APP. BY:	Q/A RW BY:					
DATE: AUGUST 2021 SCALE: AS SHOWN DRAWING NO.			ST. BERNARD LANDFILL VILLAGE OF ST. BERNARD, OHIO				
FIG 2							