



HEALTH DIVISION

OAKLAND COUNTY EXECUTIVE DAVID COULTER

Kate Guzman, Health Officer
(248) 858-1280 | health@oakgov.com

CERTIFIED MAIL

April 24, 2025

MICHAEL C POWELL, PE
POWELL ENGINEERING & ASSOCIATES, LLC
4700 CORNERSTONE DRIVE
WHITE LAKE, MI 48383

RE: REPAIR NON-RESIDENTIAL ON-SITE WASTEWATER TREATMENT SYSTEM AT 2510 LAKESIDE DR, HIGHLAND, MI; RECORD EHSI-2025-00166; SIDWELL 11-13-179-005

Dear Mr. Powell:

The Oakland County Health Division (OCHD) is in receipt of an engineered plan, Job # 25-453 for the above referenced property. At this time, OCHD has reviewed and denied the plan for not meeting aspects of the Oakland County Health Division Sanitary Code Article III and associated policies. The plan shall remain denied due to the following reasons:

- (1) The proposed onsite wastewater treatment system is designed over unsatisfactory soils. Section 5.4.2 states, in part, unsatisfactory soils are a reason for denial. Fill is considered unsatisfactory for the treatment and disposal of wastewater due to no established application rate. <A variance request was submitted for administrative review>
- (2) The proposed onsite wastewater treatment system is designed with a cut-down within two (2) feet of the high seasonal water table (HSWT). Section 5.4.5 states, "the existence of less than twenty-four (24) inches of naturally occurring acceptable soil that is considered suitable for the treatment of wastewater" shall be observed. <A variance request was submitted for administrative review>
- (3) The proposed onsite wastewater treatment system is not adequately sized. A 1,120 square foot pressure dosed treatment area is proposed with an application rate of 0.54 gallons per square foot. Section 6.6 states in part, "the size of the soil absorption system shall be based on anticipated water use and the type and structure of the subsoils". <A variance request was submitted for administrative review>
- (4) The proposed onsite wastewater treatment system is less than seventy-five (75) feet to a Type III Public Water Well. Section 7.3 states in part, "Onsite wastewater treatment systems shall meet the required minimum isolation distances as specified". The minimum isolation to a Type III Public Water Well is seventy-five (75) feet. Submit a variance request for administrative review.

- (5) The proposed on-site wastewater treatment system is less than ten (10) feet to a property line and pressurized water lines. Section 7.3 states in part, "Onsite wastewater treatment systems shall meet the required minimum isolation distances as specified". The minimum isolation to a property line/pressurized water line is ten (10) feet. <Submit a variance request for administrative review >
- (6) The proposed onsite wastewater treatment system is designed at three (3) feet to the high seasonal water table (HSWT). Section 7.6.2 states, "the lowest point of any soil absorption system shall not be closer than four (4) feet to any known water, high seasonal water table or evidence thereof." <Submit a variance request for administrative review>

In addition, the plan does not meet aspects of OCHD On-site Sewage Disposal System Policy:

- (1) No benchmark was provided. Provide.
- (2) No finished floor grade was shown for either structure. Provide.
- (3) A 3:1 berm is proposed. Prior to sloping, the berm ratio should not exceed 4:1. A retaining wall is proposed.
- (4) One (1) foot of 2NS sand is provided as shown in Cross-Section A-A. A minimum of two (2) feet is required under the system stone.
- (5) No adequately sized reserve area is provided. No comment was provided on the plan stating the replacement system to go in the location of the proposed septic system. Provide a comment.
- (6) The existing well to the South is not shown. No comment was provided indicating the well is at least fifty (50) feet from the proposed septic system. Provide a well location or comment stating the well is at least fifty (50) feet from the proposed septic system.

Furthermore, the following items on the plan must be addressed:

- (1) Vehicle parking is limited. To be addressed.
- (2) No floor plan was provided. Provide.
- (3) Modify/submit necessary variance requests.
 - a. Add pressurized water lines and Type III wells to Section 7.3 variance request.
 - b. Modify isolation distances for the proposed pretreatment unit and pump chamber to six (6) – seven (7) feet the southern property line.
- (4) Private water supply well to the North mislabeled as a Type III Public Water Well. Change to private.
- (5) The proposed water service line to the existing home is unclear. Clarify.
- (6) Variance request for 5.4.6 appears to be submitted in error. Review.

The plan as submitted contains certain site conditions that do not meet Article III, and associated policies as indicated above. Therefore, no permit may be issued. You may resubmit the engineered plan with suggested corrections, or you have the right to appeal this decision to the Sanitary Code Appeal Board. This appeal must be accompanied by a fee of \$125. Please contact this Division if you require further information. Please contact OCHD at 248 858-1312 regarding any questions.

Sincerely,

OAKLAND COUNTY HEALTH DIVISION
Department of Health and Human Services

A handwritten signature in black ink that reads "F. Rhodes, REHS". The signature is written in a cursive, flowing style.

Frank Rhodes, REHS
Senior Public Health Sanitarian
Environmental Health Services

cc: Highland Township Building Department
Homeowner
1st Class Mail