



INSPECTION SERVICES FOR THE CITY AND  
CAMROSE COUNTY

PERMIT NO. \_\_\_\_\_

**PRIVATE SEWAGE TREATMENT SYSTEM PERMIT**

Date: \_\_\_\_\_ Municipality \_\_\_\_\_ Roll # \_\_\_\_\_ Zone \_\_\_\_\_

Permit Applicant:  Owner  Contractor

**Owner Name** \_\_\_\_\_ **Mailing Address** \_\_\_\_\_

City \_\_\_\_\_ Province \_\_\_\_\_ Postal Code \_\_\_\_\_ Phone \_\_\_\_\_

Cell \_\_\_\_\_ Email \_\_\_\_\_ Fax \_\_\_\_\_

**Contractor/Firm Name** \_\_\_\_\_ **Mailing Address** \_\_\_\_\_

City \_\_\_\_\_ Province \_\_\_\_\_ Postal Code \_\_\_\_\_ Phone \_\_\_\_\_

Cell \_\_\_\_\_ Email \_\_\_\_\_ Fax \_\_\_\_\_

**Project Location** Street/Rural Address \_\_\_\_\_

Lot \_\_\_\_\_ Block \_\_\_\_\_ Plan \_\_\_\_\_ Section \_\_\_\_\_ Township \_\_\_\_\_ Range \_\_\_\_\_ W4

INSTALLATION DETAILS

TYPE OF OCCUPANCY	TYPE OF WORK	INSTALLATION	TREATMENT DISPOSAL METHODS
<input type="checkbox"/> Single Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Offsite Manufactured Home <input type="checkbox"/> Shop <input type="checkbox"/> Accessory Building <input type="checkbox"/> Other:	<input type="checkbox"/> New <input type="checkbox"/> Renovation <input type="checkbox"/> Subdivision <input type="checkbox"/> Other:	<input type="checkbox"/> New <input type="checkbox"/> Alteration Expected Volume of Effluent: <input type="checkbox"/> m <sup>3</sup> /day _____ <input type="checkbox"/> litres/day _____ <input type="checkbox"/> gallons/day _____ (not to exceed 25 m <sup>3</sup> /day) # of bedrooms: _____ (residential including basement and future development)	<input type="checkbox"/> Septic Tank <input type="checkbox"/> Holding Tank <input type="checkbox"/> Treatment Mound <input type="checkbox"/> Treatment Field <input type="checkbox"/> Open (Surface) Discharge <input type="checkbox"/> Packaged Sewage Treatment Plant <input type="checkbox"/> At-Grade <input type="checkbox"/> Privy <input type="checkbox"/> Other:

**FOIPP Notification:** The personal information required by the City of Camrose application forms is collected under the authority of section 33(c) of the Alberta Freedom of Information and Protection of Privacy Act and will be protected under Part 2 of that Act and section 63 of the Safety Codes Act. It will be used for processing permit applications, issuing permits, safety codes compliance monitoring and verification. The name of the permit holder and nature of the permit may be included on reports provided to a municipality or made available to the public as required or allowed by legislation. Personal information may also be used by the city of Camrose to conduct ongoing evaluations of the services provided by its service providers to permit applications, permit holders and owners. Please direct any questions about this application to the City of Camrose FOIPP Coordinator at 780.672.4426.

\_\_\_\_\_  
Certified Installer's Name (Print)

\_\_\_\_\_  
Certified Installer's Signature

\_\_\_\_\_  
Homeowner Signature (**homeowner permit only**)

Certified Installer's PS# \_\_\_\_\_

By signing this application I hereby certify that I own or will own and occupy this dwelling.

Office Use Only

Permit Fee	SCC Levy (\$4.50 or 4% of permit fee, max \$560.00)	Issuer's Name
Travel Fee (Includes GST)	Total Cost	Issuer's Signature
Credit Card No.:	Receipt No.	Designation Number
	Expiry:	Permit Issue Date
	SCO Designation No.	SCO Signature

Permit expires two years after Permit Issue Date unless, prior to expiry date, an extension is applied for and accepted at the Discretion of the Safety Codes Officer.

# Private Sewage Treatment System

The following information will be required when submitting an application for a private sewage treatment system permit.

## Site plan

Location of all buildings/proposed buildings and improvements

Location of well/cistern and any sloughs or waterways, water courses and property lines.

## Septic tank, sewage holding tanks or sewage effluent tanks shall not be located within

- a) 10 m (33 ft.) of a water source or water well,
- b) 10 m (33 ft.) of a water course,
- c) 1 m (3.25 ft.) of property line, and
- d) 1 m (3.25 ft.) of a building

## Open Discharge

- 1) An open discharge system may be installed in a location that provides separation distances from the point of discharge of not less than
  - a) 50 m (165 ft.) to a water source includes water well, and or cistern
  - b) 100 m (330 ft.) from a licensed municipal water well
  - c) 45 m (150 ft.) to a water course except as required by Article 2.1.2.4.
  - d) 90 m (300 ft.) to a property line, and
  - e) 45 m (150 ft.) to a building.

2) The effluent discharge piping shall be buried to at least the point where the separation distances set out in Sentence (1) are met.

## Treatment Fields

- 1) A treatment field, measured from any part of a weeping lateral trench, shall not be located within
  - a) 15 m (50 ft.) of a water source or water well,
  - b) 100 m (330 ft.) of a licensed municipal water well,
  - c) 15 m (50 ft.) of a water course, except as provide in Article 2.1.2.4,
  - d) 1.5 (5 ft.) of a property line,
  - e) 10 m (33 ft.) from a basement, cellar, or crawl space, <sup>1</sup>
  - f) 1 m (3.25 ft.) of a building that has a permanent foundation but does not have a basement, cellar or crawl space, and
  - g) 5 m (17 ft.) from a septic tank or package sewage treatment plant.

<sup>1</sup> Note: Clause (1)(d) – The 10m (33 ft.) requirement to a basement, cellar, crawl space is intended to protect excavations below grade from accumulating migrating effluent. A crawl space that is not below grade, or where the level of the ground surface at the soil based treatment area is below the level of the crawl space the separation required is 5 m (17 ft.) clearance, as it can be treated as a building without a basement.

## Treatment Mounds

- 1) A treatment mound shall not be located within
  - a) 15 m (50 ft.) of a water source or water well,
  - b) 100 m (330 ft.) from a licensed municipal water well
  - c) 15 m (50 ft.) of a water course, except as provided in Article 2.1.2.4.
  - d) 3 m (10 ft.) of a property line,
  - e) 3 m (10 ft.) of a septic tank,
  - f) 10 m (33 ft.) of a basement, cellar or crawl space, and
  - g) 10 m (33 ft.) of a building that does not have a basement, cellar, or crawl space.

# Private Sewage System Design Document Example/Template Holding Tank

## PREFACE

This is an example Design Document for a holding tank system. It reflects the information needed to demonstrate the design considerations for the particular site and system required by the Private Sewage Standard of Practice 2009 (Standard) have been made. Considerations needed for a particular site may go beyond those used as an example in this document.

This example document can be used as a template by editing or adding critical information to suit the particular site and system.

While it is preferable to use a consistent format to facilitate quick review, other formats of the design document may be accepted by the Safety Codes Officer (SCO), if the document includes the required information that shows the necessary design considerations were made.

A design is required in support of a permit application. It includes drawings and supporting information as it applies to the specific site and design. This is the information a SCO will review to evaluate whether design considerations required by the Standard have been adequately made prior to issuing the permit.

Including the design in the operation and maintenance manual that must be provided to the owner, will simplify development of the operation and maintenance manual.

# PRIVATE SEWAGE SYSTEM DESIGN - HOLDING TANK

Date:

Joe Smith  
Box 1,  
Somewhere, Alberta

## Subject: Residential Wastewater Holding Tank System

**Legal Description of Property:** SE Sec 9, Twp 71, Rge. 5, W of 6 Mer.  
Lot 14; Blk 1; Plan 123450

**Municipal Address:** 19035 - Rge. Rd. 5

### Introduction

This private sewage system is for a 4-bedroom single family dwelling. Based on the characteristics of the home identified during our assessment, the total peak wastewater flow per day is 461 Imperial gallons with average operating flow of 300 gallons per day.

The sewage system is restricted to a holding tank due to the soil conditions of the property. The municipality was contacted and they have no restrictions on the installation of holding tanks. This design applies and meets the requirements of the Alberta Private Sewage Systems Standard of Practice (Standard).

## 1 Wastewater Characteristics

### 1.1. Wastewater Peak flow

The development served is a 4-bedroom single-family dwelling. The total plumbing fixture unit load in this residence is 21 based on a building plans review. This requires 50 L/day (11 Imp. gal/day) be added to the peak daily flow. Fixture unit load is as follows:

- o Main bath = 6 fixture units
- o Bathroom with shower off master bedroom = 6 fixture units
- o Kitchen sink = 1.5 fixture units
- o Laundry stand pipe = 1.5 fixture units
- o Bathroom in basement = 6 fixture units

<b>Total peak daily flow used in the design is:</b> <b>450 Imp. gal + 11 Imp. gal = 461 Imp. gal</b>	<b>2,090 L/day</b> <b>(461 Imp. gal/day)</b>
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### 1.2. Wastewater Strength

Not applicable to residential holding tank.

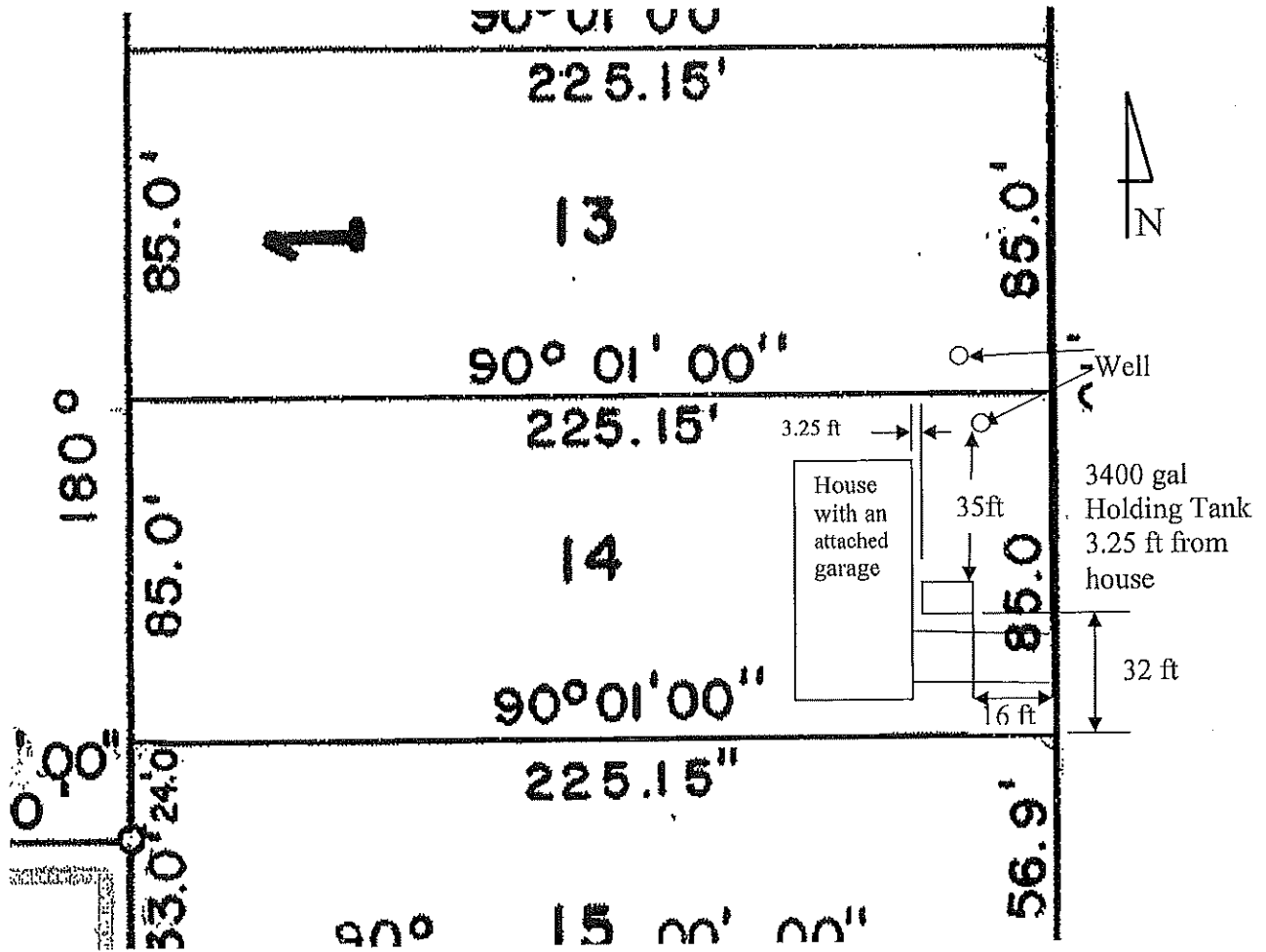
## 2 Site Evaluation Findings

### 2.1 Site Evaluation

The lot is 0.177 hectare (0.44 acres). The dimensions of the property are shown in the drawing attached in Appendix A. The adjacent lands are small lots within a residential subdivision. There are no water courses on or adjacent this 0.177 hectare property. The property has a 2% slope toward the north property line. Line locates confirmed there are no existing utilities or easements to be considered.



# Appendix A Site Information



## Appendix B

### Manufacturer's and Design Specifications for System Components

