Red Deer County Centre
38106 Range Road 275
Red Deer County, AB T4S 2L9
P: 403. 754.6371; F: 403.346.9840
Website: www.rdcounty.ca
Email: inspections@rdcounty.ca

PRIVATE SEWAGE DISPOSAL SYSTEM (PSDS) PERMIT APPLICATION FORM

Permit Applicant: ☐ Owner ☐ Contractor Application Date: _____

Other Permits Required (under separate application): ☐ Building ☐ Electrical ☐ Plumbing ☐ Gas Estimated Completion Date: _____

Development Permit No.: _____ New Home Warranty No.(if applicable): _____

Owner Name: _____ Mailing Address: _____

City: _____ Province: _____ Postal Code: _____ Phone: _____

Cell: _____ Email: _____ Fax: _____

PSDS Contractor Name: _____ Mailing Address: _____

City _____ Province: _____ Postal Code: _____ Phone: _____

Cell: _____ Email: _____ Fax:: _____

Hamlet/ Subdivision Name: _____ Tax Roll No.: _____

Street/Rural Address: _____ Unit: _____ Lot: _____ Block: _____ Plan: _____

Legal Subdivision: Part of: _____ ¼ Section: _____ Township: _____ Range: _____ West of: _____ M

Directions: _____

Description of Work: _____

☐ PSDS installation not started ☐ PSDS installation in progress ☐ PSDS installation complete

Submit with Application: ☐ Soil Log Report (2 test pits) ☐ Soil Analysis ☐ System Diagram ☐ CSA-B66 Certificate ☐ Site Plan/Diagram

TYPE OF WORK
Only select applicable item(s)

☐ **New Installation**
☐ **Alteration of existing system**

☐ Residential/No. of Bedrooms: _____
☐ Commercial/No of Seats/Employees: _____
☐ Industrial
☐ Work Camp/No. of beds _____
Variance No.: _____
Variance Exp. Date: _____
Expected Peak Volume: _____

☐ L/day ☐ Gal/day ☐ m^3/day
(not to exceed 25 m^3/day)

INITIAL COMPONENT
Only select applicable item(s)

☐ Holding Tank
Capacity: _____
CSA Cert No.: _____
☐ Septic Tank
Working Capacity: _____
CSA Cert No.: _____
☐ Packaged Sewage Treatment Plant
☐ Sand Filter ☐ Settling Tank
☐ Effluent Tank ☐ Lift Station

SOIL BASED TREATMENT SUMMARY
Only select applicable item(s)

☐ Treatment Field ☐ LFH At-Grade
☐ Chamber System Treatment Field ☐ Open Discharge
☐ Treatment Mound ☐ Lagoon
☐ Sub-surface Drip Dispersal ☐ Privy

Depth of to Restrictive Layer: _____ ☐ Meters ☐ Feet ☐ Inches
Depth of Limiting Layer: _____ ☐ Meters ☐ Feet ☐ Inches
Soil Texture: _____ Structure: _____ Grade: _____
Soil Effluent Loading Rate: _____ ☐ L/day ☐ Gal/day
Linear Loading Rate: _____ ☐ L/day ☐ Gal/day
Soil Infiltrating Area Required: _____ ☐ $Meters^2$ ☐ $Feet^2$

Permit Applicant Declaration: The permit applicant certifies that this installation will be completed in accordance with the Alberta Safety Codes Act and Regulations and work will commence within 90 days. The permit applicant/owner acknowledges that as per Section 12(2) of the Alberta Safety Codes Act, Red Deer County is not liable for any decision related to the system of inspections, examinations, evaluations and investigations including but not limited to a decision relating to their frequency and the manner in which they are carried out. **F.O.I.P. Notification**: Personal information 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. Questions regarding the collection of personal information can be directed to the F.O.I.P. Coordinator 403.350.2150.

Installer's **Name (print)** _____ Certified Installer's Signature _____ Homeowner 's Signature (homeowner permit only) **Homeowner Declaration: By signing this I hereby certify that I own/will own and occupy this dwelling.**

Certification Number: _____

Permit Fee: $ _____ Building Permit No.: _____ File No.: _____ Receipt No.: _____ Region: _____ Division: _____

*SCC Levy: $ _____ ☐ Cash ☐ Debit ☐ Credit Card ☐ Cheque No.: _____ eSITE No.: _____

Total Fee: $ _____ Credit Card No.: _____ Exp. Date: _____

*SCC levy 4% of the permit fee with minimum of $4.50 and a maximum of $560.00

Name on Credit Card: _____ Signature on Card: _____

FOR OFFICE USE ONLY

Permit Validation Section *to be completed by the Plumbing Safety Codes Officer*:

Special Conditions: Site inspection(s) are required to ensure compliance with the Safety Codes Act of Alberta.

Issuing Officer's Name: _____ Issuing Officer's Signature: _____

Designation No.: _____ Permit Issue Date: _____

For inspections, please contact IJD Inspections Ltd. 403-346-6533 or http://www.ijd.ca/request-an-inspection

Safety Codes Council
Alberta Safety Codes Authority

PRIVATE SEWAGE DISPOSAL SYSTEM
PERMIT APPLICATION
DOCUMENT CHECKLIST

A COMPLETE SITE EVALUATION REPORT, AS PER THE 2015 ALBERTA PRIVATE SEWAGE SYSTEMS STANDARD OF PRACTICE (SOP) PART 7 SITE EVALUATION, IS REQUIRED WITH THE PERMIT APPLICATION. THE FOLLOWING DOCUMENTS ARE TO BE INCLUDED WITH YOUR COMPLETE SITE EVALUATION REPORT.

TREATMENT FIELD, MOUND, OR LFH AT-GRADE SYSTEMS

- ☐ Wastewater strength projected for the development.
- ☐ Peak flow volume calculations for the development including confirmation plumbing fixture unit total is not exceeded.
- ☐ Site plan – as per current SOP Section 7.1 Site Characteristics and Evaluation Procedures including placement of system with setbacks noted for property lines, buildings, water sources/courses, description of surface features including slope and landscape, location of at least two (2) soil profile investigation locations in the area of the soil-based treatment system, etc.
- ☐ The characteristics of each soil profile investigated shall be described using Canadian System of Soil Classification nomenclature and includes complete site specific soil profile logs for at least two (2) locations, soil sample results of the most limiting condition, GPS coordinates of each soil profile with permanent benchmark, depth of each horizon identified, soil colour, soil texture, structure and grade, depth to most limiting condition, restrictive layer (if applicable), etc.
- ☐ Description of treatment system including a system diagram, piping to tank details, initial treatment (septic tank/ treatment plant), piping to and throughout final soil treatment component.
- ☐ Soil based treatment system design calculations, including pressure distribution system – if applicable.
- ☐ Tank certification information – CAN/CSA-B66 certificate (confirmed by or on final inspection).
- ☐ Package sewage treatment plant – treatment capacity, equipment structural requirements and certification (if applicable).
- ☐ Pump, if required by design. Manufacturer and pump curve to ensure flow capacity (confirmed by or on final inspection)
- ☐ High level alarm (reference made in design and confirmed by or on final inspection).
- ☐ Filter (reference made in design and confirmed by or on final inspection).

HOLDING TANK

- ☐ Expected wastewater volume/day including tank storage capacity, bedroom count – current and proposed.
- ☐ Site plan showing placement of system with setbacks noted for property, buildings and water source.
- ☐ Tank certification information – CAN/CSA-B66 certificate (confirmed by or on final inspection).
- ☐ High level alarm (reference made in design and confirmed by or on final inspection).

OPEN DISCHARGE SYSTEM

- ☐ Peak flow volume calculations for the development including confirmation plumbing fixture unit total is not exceeded.
- ☐ Site plan – as per current SOP Section 7.1 Site Characteristics and Evaluation Procedures including placement of system with setbacks noted for property lines, buildings, water sources/courses, description of surface features including slope and landscape, location of at least one (1) soil profile investigation location in the area of the soil-based treatment system, etc.
- ☐ The characteristics of each soil profile investigated shall be described using Canadian System of Soil Classification nomenclature and includes complete site specific soil profile logs for at least one (1) location, soil sample results of the most limiting condition, GPS coordinates of each soil profile with permanent benchmark, depth of each horizon identified, soil colour, soil texture, structure and grade, depth to most limiting condition, restrictive layer (if applicable), etc.
- ☐ Description of treatment system including a system diagram, piping to tank details, initial treatment (septic tank/treatment plant), piping to and throughout final soil treatment component.
- ☐ Tank certification information – CAN/CSA CSA-B66 certificate (confirmed by or on final inspection).
- ☐ Pump, if required by design. Manufacturer and pump curve to ensure flow capacity (confirmed by or on final inspection).
- ☐ High level alarm (reference made in design and confirmed by or on final inspection).
- ☐ Filter (reference made in design and confirmed by or on final inspection).

SITE EVALUATION REPORT

The information requested in this document must be submitted with the permit application as required by the Private Sewage Systems Standard of Practice 2009.

A detailed diagram of the site where the sewage system will be installed **must** be included. The following information is to be shown on the diagram and must be to scale:

- ☐ Property size (in acres)
- ☐ All boundary lines including the lengths in feet or meters
- ☐ Buildings, roads, driveways and other property improvements; existing or proposed
- ☐ Existing easements
- ☐ Wells, cisterns or proposed water source locations on the property
- ☐ Surface waters, rock outcrops and drainage features
- ☐ Topography of the proposed treatment site **
- ☐ Soil test pits locations with surface elevations **
- ☐ Location of a permanent benchmark and it's elevation **
- ☐ Outline of available treatment areas **

** Not required for the installation of a sewage holding tank.

SOIL PROFILE REPORTING

The characteristics of each soil profile investigated shall be described using the Canadian System of Soil Classification nomenclature and include the following in the soil profile description: **NOTE:** *Other than Sandy Clay any texture that uses the word SAND in its description must include sand particle size.*

- ☐ **Soil Horizons** – the distance from the ground surface to the top and bottom of each soil horizon observed shall be measured and distinctness and topography of the horizon boundaries described.
- ☐ **Soil Color** for each soil lies and identified, the matrix color and quantity, size, contrast, and color of any redoximorphic features present shall be described.

☐ **Texture** for each horizon identified, the soil texture classification including any appropriate texture modifier shall be reflected in this evaluation report and a soil sample of the most restricting layer affecting the design shall be collected and analyzed at a laboratory using a recognized grain or particle size analysis method to determine the texture of the same.

☐ **Soil Structure** and grade of structure identified for each horizon.

☐ A statement regarding the treatment capability and dispersal capacity of the available site(s).

☐ Where the soil profile includes features that will require the lateral movement of water through the soil away from the dispersal system, identified constraints on the system design and allowable effluent hydraulic loading rates, as it relates to linear loading rates.

☐ A summary of the significant limiting conditions of soil profile and site.

☐ A justification of the locations and number of the soil profiles investigated.

☐ A description of the development being served including:

- Characteristics affecting the determination of peak and average wastewater flows to be used in the design,
- The peak daily wastewater flow volume to be used for the system design, and
- Anticipated effluent wastewater strength.

☐ Copies of laboratory soils analysis reports have been attached.

☐ Number of soil profiles investigated; a minimum of two (2) test pit excavations shall be investigated at the proposed location for the soil-based treatment component to classify and assess the treatment capacity of the soil.

☐ Minimum depth of soil investigation (choose appropriate depth as per YOUR design). The soil profiles shall be investigated to a minimum depth below ground surface of:

- 4 feet for Treatment Mounds.
- 9 feet for Treatment Fields receiving primary treated effluent (septic tank effluent).
- 6.5 feet for Treatment Fields receiving secondary treated effluent (treatment plant, sand filter effluent)
- 6 feet for Open Discharge systems.

Onsite Sewage System Site Evaluation Lot Diagram Field Sketch and Notes

Project Name: Lot or Legal Description: Date:

N

Show the proposed location of the onsite sewage system and the following items indicating their distances from the proposed system:

trees
floodplains
wells
water sources
surface water
bedrock outcrops
buildings
property lines
easement lines
ditches or interceptors
banks or steep slopes
fills
driveways
existing sewage systems
underground utilities
soil test pit and borehole locations

drainage course

slope direction

borehole BH 1

Test Pit P1

Comments:

Property line GPS coordinates:
GPS coordinates of well:
GPS coordinate of tank:
GPS coordinates of soil treatment component corners:

Additional information is required separately for the system design detail.

Alberta Private Sewage Treatment System Soil Profile Log Form

Owner Name or Job ID.									
Legal Land Location								Test Pit GPS Coordinates	
LSD-1/4	Sec	Twp	Rg	Mer	Lot	Block	Plan	Easting	Northing

Vegetation notes:		Overall site slope %	
		Slope position of test pit:	

Test hole No.	Soil Subgroup	Parent Material	Drainage	Depth of Lab sample #1	Depth of Lab sample #2

Hori-zon	Depth (cm) (in)	Texture	Lab or HT	Colour	Gleying	Mottling	Structure	Grade	Consistence	Moisture	% Coarse Fragments

Depth to Groundwater		Restricting Soil Layer Characteristic	
Depth to Seasonally Saturated Soil		Depth to restrictive Soil Layer	
Site Topography		Depth to Highly Permeable Layer Limiting Design	
Key Soil Characteristics applied to system design effluent loading			
Weather Condition notes:			
Comments: such as root depth and abundance or other pertinent observations:			

PLANNING DEVELOPMENT SERVICES
38106 Range Road 275
Red Deer County, AB T4S 2L9
Phone: 403.754.6371
Fax: 403.346.9840

CERTIFIED PRIVATE SEWAGE INSTALLERS

Complany Name	City	Phone Number
AL'S BOBCAT & TRUCKING	SYLVAN LAKE	403-887-2980
ALBERTA BACKHOE SERVICES	ROCKY MOUNTAIN HOUSE AB	403-846-5656
ALBERTA SEPTIC & EXCAVATING INC	DIDSBURY AB	403-559-6729
ASPENWORKS MECHANICAL	RIMBEY AB	403-704-6214
BASELINE LTD	ECKVILLE, AB	403-877-7802
BJ BOBCAT & TRUCKING LTD	RED DEER AB	403-352-2206
C.J. PLUMBING & HEATING D/O 1081132 AB LTD	RED DEER COUNTY AB	403-343-8407
CASTLE EXCAVATING INC	OKOTOKS AB	403-901-9140
CERTIFIED MECHANICAL SYSTEMS LTD	PENHOLD, AB	403-886-5805
DAVE'S PLUMBING & HEATING	RED DEER COUNTY, AB	403-318-5416
GIRLLETZ SEPTIC & BOBCKAT SERVICES	RED DEER COUNTY, AB	403-437-3735
GRIP CONSTRUCTION	RIMBEY AB	403-505-1914
JABS SERVICES INC.	OLDS, AB	403-586-0160
KRENNY'S EXCAVATING	RED DEER COUNTY AB	403-352-3190
MAP SERVICES	RED DEER COUNTY AB	403-392-3125
MILLER EXCAVATING	DIDSBURY AB	403-507-1534
MOORE'S BACKHOE	BENTLEY, AB	403-588-7705
PERRY WARNER PLUMBING	DELBURNE AB	403-588-5575
PR-EXCAVATING LTD.	RED DEER COUNTY	403-559-8847
QUALITY DIRT WORKS	DIDSBURY AB	403-335-3554
SYLVAN BACKHOE SERVICE	SYLVAN LAKE AB	403-887-5604
THOMPSON DITCHING, D/O 647736 ALBERTA LTD	LACOMBE AB	403-782-5911
THS SEPTIC AND CIVIL SOLUTIONS	ROCKY MOUNTAIN HOUSE AB	403-844-2559
TRINITY WATER AND SEPTIC	RED DEER/INNISFAIL	403-391-7800
B.W. BOUWMAN PLUMBING LTD	ROCKY MOUNTAIN HOUSE AB	403-845-4545
WARREN'S BACKHOE SERVICE LTD	BASHAW, AB	403-788-2489
XANDAL BACKHOE LTD	LACOMBE AB	403-396-4108

For a complete list of certified installers go to:

https://open.alberta.ca/publications/private-sewage-systems-installer-certification-list

Note: This list is compiled from information provided online through the yellow pages site or other similar online directories. Other firms may exist which may not be on this list. Red Deer County does not endorse any particular firm. Services provided by these firms will vary.

PRIVATE SEWAGE DESIGNERS

PLANNING DEVELOPMENT SERVICES
38106 Range Road 275
Red Deer County, AB T4S 2L9
Phone: 403.754.6371
Fax: 403.346.9840

COMPANY NAME	CONTACT NAME	PHONE NUMBER
AL'S BOBCAT & TRUCKING	SYLVAN LAKE	403-887-2980
BASELINE LTD.	ECKVILLE, AB	403-877-7802
D & S ENTERPRISES	DANIEL MORRIS	403-652-0348
DH DESIGNS	DANIEL HORNE	403-598-3271
GIRLETZ SEPTIC & BOBCAT SERVICES	TANNER GIRLETZ	403-437-3735
JABS SERVICES INC.	KEN JABS	403-586-0160
KRENNY'S EXCAVATING	RED DEER COUNTY AB	403-352-3190
MAP SERVICES	RED DEER COUNTY AB	403-392-3125
PERRY WARNER PLUMBING	DELBURNE AB	403-588-5575
SENTRY WASTE WATER	DALE MCCLURE	780-975-2835
SOILWORX	CHAD WIDMER	855-201-7767
TEK DESIGNS	TRACEY KRENN	403-352-3113
TRINITY wATER AND SEPTIC	RED DEER/INNISFAIL	403-391-7800
WARREN'S BACKHOE SERVICE	BASHAW, AB	403-788-2489
		403-461-6322

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