



**SAFETY CODES PERMIT
APPLICATION PACKAGE**



WHEN DO YOU NEED A PERMIT?

The Safety Codes Act requires that all contractors or homeowners in Alberta obtain permits before starting any work on projects covered by the current edition discipline specific codes and regulations.

When applying for a permit, remember that:

- The permitted work must comply with all applicable codes and regulations.
- Permits have expiry dates. Permit expiry dates can be located under general permit conditions section of the issued permit document.
- Most private sewage disposal system permits expire within 90 days.

BUILDING DISCIPLINE

The Permit Regulation and the Building Code requires a building permit for any new construction, change in occupancy, alteration or renovation that is over \$5000 in prevailing market value and over 10 m² with the following exemptions:

- PERMITS ARE **NOT** REQUIRED FOR THE FOLLOWING:
 - construction of a building, including a renovation or an addition to a building, if
 - the building is not a stage or tent or overhead structure that is used or intended to be used in conjunction with a stage or tent,
 - construction, renovation or addition does not exceed \$5000 in prevailing market value, and
 - matters affecting health or life safety are not at risk;
 - painting or decorating if
 - matters affecting health or life safety are not at risk, and
 - there is no structural change to the building;
 - re-roofing or re-siding if
 - the re-roofing or residing is undertaken for aesthetic purposes or for the purposes of maintaining the building,
 - the re-roofing or re-siding is being replaced with roofing or siding of a similar type,
 - matters affecting health or safety are not at risk, and
 - there is no structural change to the building.
 - to replace or alter ducting serving a space heating appliance if
 - it is located in a single family residential dwelling and
 - there is no design change required to the heating and ventilation system;
 - construction of, including renovation of or an addition to, a stage if the platform of the stage is not at a distance greater than 1200mm above the adjacent surface on any side;
 - construction of, including renovation of or an addition to, a tent that is
 - located on property that is designated for residential use by municipal land use bylaws and used as a single family residential dwelling, and
 - not used for commercial purpose, or
 - that is located on a campsite or campground or more than 3 m from any other structure if the tent
 - does not cover, and is not part of a group of tents that collectively cover, more than 60m² of ground and
 - does not contain, and is not intended to contain commercial cooking equipment;
 - relocatable industrial accommodation if the relocatable industrial accommodation is at the relocation site for not more than 28 days;
 - Utility towers and poles, television and radio or other communications antennas or towers, except loads resulting from those located on or attached to a building;
 - water conveyance and control structures, except for associate building provided for occupancy;

- highway and railway bridges;
- mechanical process equipment and appliances in an industrial occupancy that are not required building services are not specifically regulated by the Building Code;
- a building of low human occupancy associated with the operation of the farm on which it is located where the building is used for the
 - housing of livestock,
 - storage or maintenance of equipment, or
 - storage of materials or produce,
 - farm buildings may include, but are not limited to,
 - produce storage facilities
 - livestock and poultry housing,
 - milking centres,
 - manure storage facilities,
 - grain bins,
 - silos,
 - feed preparation centres,
 - farm workshops (for the farm on which the workshop is located, not a agricultural repair shop serving the public) and
 - horse riding, exercise and training facilities not used by the public (no bleachers, public food service etc.)

ELECTRICAL DISCIPLINE

A permit in the electrical discipline is required to install, alter, or add to an electrical system.

Permits are required for all electrical installations.

These include, but are not limited to;

- | | |
|--------------------------|-----------------------------|
| • Farm Buildings | • New Service Connection |
| • Hot tub/swimming pools | • Temporary Service |
| • Solar installations | • Underground Service |
| • Renovations | • Basement development |
| • Garage | • Skid units |
| • Ac unit | • Relocatable accommodation |
| • Sheds | • Oilfield pump jacks |
| • Service Upgrade | |

GAS DISCIPLINE

A permit in the gas discipline is required to install, alter or add to a gas system.

Permits are required for all gas installations. These include, but are not limited to;

- | | |
|---|--|
| • Furnace replacements or installations | • Pool Heaters |
| • Gas fireplace installations | • Propane tank sets over 454 liters |
| • Grain driers (every time they are connected) | • Tube Heaters |
| • Water heaters (including replacements if the venting changes) | • Unit Heaters |
| | • Piped BBQ lines |
| | • Change of fuel type (propane to natural gas) |



PLUMBING DISCIPLINE

A permit in the plumbing discipline is required to install, alter or add to a plumbing system.

Permits are required for all plumbing installations. These include, but are not limited to;

- New Installations
- Adding any fixtures or taps requiring new piping

PRIVATE SEWAGE DISCIPLINE

A permit in the private sewage discipline is required for a private sewage disposal system undertaking.

Permits are required for all Private Sewage systems. These include, but are not limited to;

- New System Installation
- Change of open discharge location
- Septic tank replacement
- Holding tank installation
- Outhouses with tank

CONSULT WITH OUR OFFICE FOR APPLICATION TO EXISTING BUILDINGS, AND TEMPORARY USE BUILDINGS



Town of Redwater
 4924 -47 Street
 PO Box 397
 REDWATER AB T0A 2W0
 Phone: (780) 942 3519
 Fax: (780) 942 4321
 www.redwater.ca



BUILDING PERMIT APPLICATION FORM

Development #: _____

Application Date: DD / MMM / YYYY

Estimated Project Completion Date: DD / MMM / YYYY

Applicant Type: Homeowner Contractor

Cost of Installation (Market Value) \$ _____

The Permit Holder hereby certifies that this installation will be completed in accordance with the Alberta Safety Codes Act. A permit may expire if the undertaking to which it applies: (a) is not commenced within 90 days of issue of the permit, (b) is suspended or abandoned for a period of 120 days. An extension can be considered when applied for in writing prior to permit expiry date.
****2 Sets of plans / specifications OR 1 set of PDF plans / specifications & payment must accompany this application** (Residential projects require New Home Warranty)**

Owner Name: _____ **Mailing Address:** _____
 City: _____ Prov: _____ Postal Code: _____ Phone: _____ Fax: _____
 Cell: _____ Email: _____

Owner's Signature / Declaration (Single Family Residential Only)
 "I hereby declare I am the owner of the premises in which the work will be conducted, and reside or will reside on the property. I am doing the work myself, and assume responsibility for compliance with the applicable Act and Regulations"

Company Name: _____ **Mailing Address:** _____
 City: _____ Prov: _____ Postal Code: _____ Phone: _____ Fax: _____
 Cell: _____ Email: _____

 Contractor/Architect/Engineer Name Signature

Project Location in the Town of Redwater: **Work:** not started in progress complete

Street Address: _____ Tax Roll #: _____
 Legal Subdivision: Part of: _____ Section: _____ Township: _____ Range: _____ West of: _____
 Subdivision Name: _____ Lot: _____ Block: _____ Plan: _____
 Directions: _____

BUILDING TYPE:	TYPE OF WORK:	BUILDING USE:	BUILDING AREA IN SQ. FT.:
<input type="checkbox"/> Dwelling Unit	<input type="checkbox"/> New Construction	<input type="checkbox"/> Farm	Number of stories _____
<input type="checkbox"/> Detached/Attached Garage	<input type="checkbox"/> Relocation	<input type="checkbox"/> Single/Multi Residential	Main area _____
<input type="checkbox"/> Accessory Building	<input type="checkbox"/> Addition	<input type="checkbox"/> Commercial	2 nd floor _____
<input type="checkbox"/> Basement Development	<input type="checkbox"/> Renovation	<input type="checkbox"/> Industrial	Basement _____
<input type="checkbox"/> Deck	<input type="checkbox"/> Demolition	<input type="checkbox"/> Institutional	Garage _____
<input type="checkbox"/> Solid fuel burning appliance	<input type="checkbox"/> Change of Occupancy	<input type="checkbox"/> Oil & Gas	Total Area _____
Certification # _____	<input type="checkbox"/> Manufactured Home*	<input type="checkbox"/> Other (specify) _____	Deck _____
<input type="checkbox"/> Foundation Type _____	<input type="checkbox"/> Modular Home*	_____	Basement developed at time of construction?
<input type="checkbox"/> Other (specify) _____	*CSA # _____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Development # _____	_____	

Description of Work: _____
Energy Compliance Method: Performance Trade-Off Prescriptive
 *Manufactured Home – transportable in single or multiple sections; is ready for residential occupancy upon completion of setup.
 *Modular Home – assembled at site in sections; sections have no chassis, running gear nor its own wheels.

Payment Type: Cash Cheque Interac M/C Visa

Permit Fee: \$ _____

+ SCC Levy: \$ _____

Total Cost: \$ _____ **Receipt #:** _____

*\$4.50 or 4% of the permit fee maximum \$560.00

The Inspections Group Inc.
 12010 – 111 Avenue NW
 Edmonton AB T5G 0E6
 Phone: (780) 454 5048 Toll Free: (866) 554 5048
 Fax: (780) 454 5222 Toll Free: (866) 454 5222
 www.inspectionsgroup.com

REMIT PAYMENT AND APPLICATION TO THE INSPECTIONS GROUP INC. PLEASE CONTACT THE INSPECTIONS GROUP INC. FOR INSPECTIONS ALLOWING 2 – 5 WORKING DAYS NOTICE AND PROVIDE SAFE ACCESS.

The personal information provided as part of this application is collected under the Safety Codes Act and the Municipal Government Act and in accordance with the Freedom of Information and Protection of Privacy Act. The information is required and will be used for issuing permits, safety codes compliance verification and monitoring, and property assessment purposes. The name of the permit holder and the nature of the permit is available to the public upon request. If you have any questions about the collection or use of the personal information provided, please contact the Municipality.



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ELECTRICAL PERMIT APPLICATION FORM

Development #: _____

Application Date: DD / MMM / YYYY

Estimated Project Completion Date: DD / MMM / YYYY

Applicant Type: Homeowner Contractor

Cost of Installation (Labour & Material)\$ _____

The Permit Holder hereby certifies that this installation will be completed in accordance with the Alberta Safety Codes Act. A permit may expire if the undertaking to which it applies: (a) is not commenced within 90 days of issue of the permit, (b) is suspended or abandoned for a period of 120 days. An extension can be considered when applied for in writing prior to permit expiry date.

Owner Name: _____ Mailing Address: _____
 City: _____ Prov: _____ Postal Code: _____ Phone: _____ Fax: _____
 Cell: _____ Email: _____

Owner's Signature / Declaration (Single Family Residential Only)

"I hereby declare I am the owner of the premises in which the work will be conducted, and reside or will reside on the property. I am doing the work myself, and assume responsibility for compliance with the applicable Act and Regulations"

Company Name: _____ Mailing Address: _____

City: _____ Prov: _____ Postal Code: _____ Phone: _____ Fax: _____

Cell: _____ Email: _____

_____ Master Electrician Number

_____ Master Electrician Name

_____ Master Electrician Signature

Project Location in the Town of Redwater:

Street Address: _____ Tax Roll #: _____

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

Subdivision Name: _____ Lot: _____ Block: _____ Plan: _____

Directions: _____

BUILDING TYPE:

- Single / Multi Family Dwelling
- Commercial
- Residential
- Industrial
- Institutional

Square Feet: _____

TYPE OF WORK:

- New Work
- Addition
- Renovation / Alteration
- Installation of service (panel / meter / service upgrade)
- Service Connection
- Improvements (A/C, hot tub, bsmt dev, etc.)
- Temporary Service
- Alternative Energy – solar/wind
- Other _____
- Annual Permit

SERVICE INFORMATION:

Does this installation Require a Service Connection
 Yes No

SUPPLY SERVICE: Overhead Underground

Service Information: Amps: _____

Volts: _____

Phase: _____

Description of Work: _____

Payment Type: Cash Cheque Interac M/C Visa

Permit Fee: \$ _____

+ SCC Levy*: \$ _____

Total Cost: \$ _____ Receipt #: _____

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GAS PERMIT APPLICATION FORM

Development #: _____

Application Date: DD / MMM / YYYY

Estimated Project Completion Date: DD / MMM / YYYY

Applicant Type: Homeowner Contractor

Cost of Installation (Labour & Material) \$ _____

The Permit Holder hereby certifies that this installation will be completed in accordance with the Alberta Safety Codes Act. A permit may expire if the undertaking to which it applies: (a) is not commenced within 90 days of issue of the permit; (b) is suspended or abandoned for a period of 120 days. An extension can be considered when applied for in writing prior to permit expiry date.

Owner Name: _____ Mailing Address: _____
 City: _____ Prov: _____ Postal Code: _____ Phone: _____ Fax: _____
 Cell: _____ Email: _____

Owner's Signature / Declaration (Single Family Residential Only)

"I hereby declare I am the owner of the premises in which the work will be conducted, and reside or will reside on the property. I am doing the work myself, and assume responsibility for compliance with the applicable Act and Regulations"

Company Name: _____ Mailing Address: _____
 City: _____ Prov: _____ Postal Code: _____ Phone: _____ Fax: _____
 Cell: _____ Email: _____

Installer's Number _____ Print Installer's Name _____ Installer's Signature _____

Project Location in the Town of Redwater:

Street Address: _____ Tax Roll #: _____
 Legal Subdivision: Part of: _____ Section: _____ Township: _____ Range: _____ West of: _____
 Subdivision Name: _____ Lot: _____ Block: _____ Plan: _____
 Directions: _____

TYPE OF OCCUPANCY: <input type="checkbox"/> Residential <input type="checkbox"/> Farm/Ranch <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Oilfield/Gas <input type="checkbox"/> Institutional <input type="checkbox"/> Mobile <input type="checkbox"/> Manufactured	NUMBER OF OUTLETS: Furnace _____ Water Heater _____ Fireplace _____ Dryer _____ Unit Heater _____ Range _____ Room Heater _____ Boilers _____ Conversion _____ Replacement Appliance _____ Secondary Risers _____ Barbeque _____ Other _____	COMMERCIAL/INDUSTRIAL APPLICATION ONLY: Total BTU _____ Name of Gas Supplier _____	PROPANE INSTALLATION: No. of Tanks _____ Tank Size _____ Serial # _____ <input type="checkbox"/> Vaporizer <input type="checkbox"/> Refill Centre <input type="checkbox"/> Service Line from Tank to Building <input type="checkbox"/> Temporary Heat <input type="checkbox"/> ANNUAL PERMIT
		DESCRIPTION OF WORK FOR ALL GAS PERMITS: _____ _____ _____ _____	

Payment Type: Cash Cheque Interac M/C Visa
 Permit Fee: \$ _____
 + SCC Levy*: \$ _____
 Total Cost: \$ _____ Receipt #: _____

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PLUMBING PERMIT APPLICATION FORM

Development #: _____

Application Date: _____ DD / MMM / YYYY

Estimated Project Completion Date: _____ DD / MMM / YYYY

Applicant Type: Homeowner Contractor

Cost of Installation (Labor & Material): _____

The Permit Holder hereby certifies that this installation will be completed in accordance with the Alberta Safety Codes Act. A permit may expire if the undertaking to which it applies: (a) is not commenced within 90 days of issue of the permit; (b) is suspended or abandoned for a period of 120 days. An extension can be considered when applied for in writing prior to permit expiry date.

Owner Name: _____ Mailing Address: _____
 City: _____ Prov: _____ Postal Code: _____ Phone: _____ Fax: _____
 Cell: _____ Email: _____

Owner's Signature / Declaration (Single Family Residential Only)

"I hereby declare I am the owner of the premises in which the work will be conducted, and reside or will reside on the property. I am doing the work myself, and assume responsibility for compliance with the applicable Act and Regulations".

Company Name: _____ Mailing Address: _____
 City: _____ Prov: _____ Postal Code: _____ Phone: _____ Fax: _____
 Cell: _____ Email: _____

Installer's Number _____ Print Installer's Name _____ Installer's Signature _____

Project Location in the Town of Redwater:

Street Address: _____ Tax Roll #: _____
 Legal Subdivision: Part of: _____ Section: _____ Township: _____ Range: _____ West of: _____
 Subdivision Name: _____ Lot: _____ Block: _____ Plan: _____
 Directions: _____

TYPE OF OCCUPANCY:	NUMBER OF FIXTURES:	WATER AND OR SEWER SERVICE:	PLUMBING DESCRIPTION OF WORK:
<input type="checkbox"/> Residential	Kitchen Sinks _____	<input type="checkbox"/> Disconnect from Septic Connect to	_____
<input type="checkbox"/> Farm/Ranch	Basins _____	Municipal Sewer	_____
<input type="checkbox"/> Commercial	Showers _____	<input type="checkbox"/> Water and/or Sewer Services	_____
<input type="checkbox"/> Industrial	Laundry _____	<input type="checkbox"/> Mobile Home/Factory Assembled	_____
<input type="checkbox"/> Oilfield/Gas	Toilets _____	Building Connection	_____
<input type="checkbox"/> Institutional	Washers _____		_____
<input type="checkbox"/> Mobile	Bathtubs _____		_____
<input type="checkbox"/> Manufactured	Floor Drains _____		_____
	Grease Traps _____		_____
	Bidets/Water Fountains _____		_____
	Urinals _____		_____
	Other _____		<input type="checkbox"/> ANNUAL PERMIT

Payment Type: Cash Cheque Interac M/C Visa
 Permit Fee: \$ _____
 + SCC Levy*: \$ _____
 Total Cost: \$ _____ Receipt #: _____

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PRIVATE SEWAGE DISPOSAL SYSTEM APPLICATION FORM

Application Date: DD / MMM / YYYY

Development #: _____

Estimated Project Start Date: DD / MMM / YYYY

Estimated Project Completion Date: DD / MMM / YYYY

Applicant Type: Homeowner Contractor

Cost of Installation (Labour & Material)\$ _____

The Permit Holder hereby certifies that this installation will be completed in accordance with the Alberta Safety Codes Act. A permit may expire if the undertaking to which it applies: (a) is not commenced within 90 days of issue of the permit, (b) is suspended or abandoned for a period of 120 days. An extension can be considered when applied for in writing prior to permit expiry date.

Owner Name: _____ Mailing Address: _____
 City: _____ Prov: _____ Postal Code: _____ Phone: _____ Fax: _____
 Cell: _____ Email: _____

Owner's Signature / Declaration (Single Family Residential Only)

"I hereby declare I am the owner of the premises in which the work will be conducted, and reside or will reside on the property. I am doing the work myself, and assume responsibility for compliance with the applicable Act and Regulations"

Company Name: _____ Mailing Address: _____
 City: _____ Prov: _____ Postal Code: _____ Phone: _____ Fax: _____
 Cell: _____ Email: _____

PSDS Installer's Number _____ Print Private Sewage Installer's Name _____ Installer's Signature _____

Project Location in the Town of Redwater:

Street Address: _____ Tax Roll #: _____
 Legal Subdivision: Part of: _____ Section: _____ Township: _____ Range: _____ West of: _____
 Subdivision Name: _____ Lot: _____ Block: _____ Plan: _____
 Directions: _____

INSTALLATION:

New installation
 Alteration
 Expected Volume of Sewage:

 m3 per day
 Litres per day
 Gallons per day

TYPE OF WORK:

Commercial
 Residential
 _____ Number of Bedrooms
 Work Camp
 _____ Number of Men
 Other _____

TREATMENT / DISPOSAL METHODS (COMPLETE ALL APPLICABLE ITEMS):

Treatment Mound Disposal Field
 Sewage Lagoon Open (Surface) Discharge
 Sand Filter Packaged Sewage Treatment Plant
 Septic Tank Size _____
 Sewage Holding Tank Size: _____
 Other _____

Description of Work: _____

COMPLETE THE ATTACHED SITE EVALUATION REPORT.

Payment Type: Cash Cheque Interac M/C Visa
 Permit Fee: \$ _____
 + SCC Levy*: \$ _____
 Total Cost: \$ _____ Receipt #: _____

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

Depth to Groundwater

Limiting Soil Layer Characteristic, describe

Depth to Seasonally Saturated Soil

Depth to Limiting Soil Layer

Limiting Topography

Depth to Highly Permeable Layer

Key Limiting Features on System Design

Weather Condition notes:






Comments: such as root depth and abundance or other pertinent observations:

Onsite Sewage System Site Evaluation Lot Diagram Sketch and Notes

Project Name:

Lot or Legal Description:

Date:

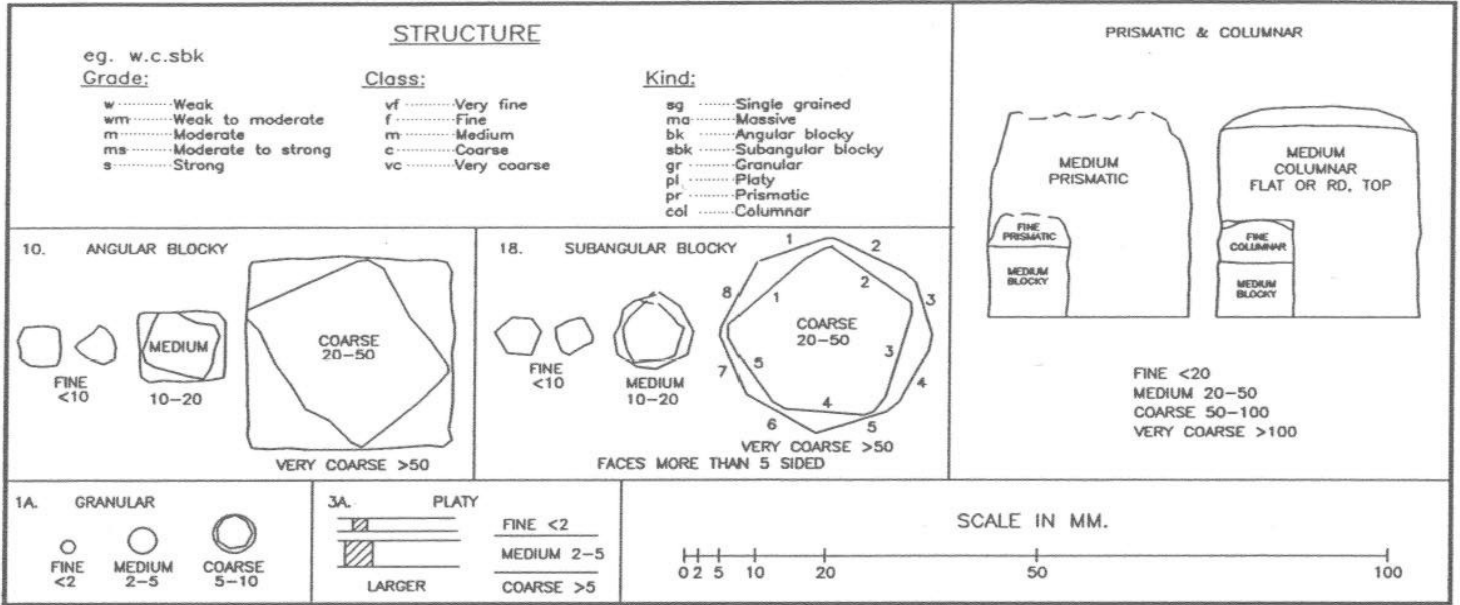
													Show the proposed location of the onsite sewage system and the following items indicating their distances from the proposed system: trees floodplains wells water sources surface water bedrock outcrops buildings property lines easement lines ditches or interceptors banks or steep slopes fills driveways 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.

Figure 4: Diagrammatic representation of soil structure



SLOPE CLASSES OF LOCAL LANDFORMS

Slope Class	Percent Slope	Approximate Degrees	Description
1	0-0.5	0	level
2	0.5-2.5	0.3-1.5	nearly level
3	2-5	1-3	very gentle slopes
4	6-9	3.5-5	gentle slopes
5	10-15	6-8.5	moderate slopes
6	16-30	9-17	strong slopes
7	31-45	17-24	very strong slopes
8	46-70	25-35	extreme slopes
9	71-100	35-45	steep slopes
10	>100	>45	very steep slopes

SURFACE STONINESS

	Surface Area	Distance Apart (cm)
S0 non-stony	<0.01%	>30
S1 slightly stony	0.01-0.1%	10-30
S2 moderately stony	0.1-3%	2-10
S3 very stony	3-15%	1-2
S4 exceedingly stony	15-50%	0.1-5
S5 excessively stony	50%	0.1

SLOPE POSITION

c	— crest
u	— upper slope
m	— mid slope
l	— lower slope
t	— toe
d	— depression
l	— level

DRAINAGE

VR	- very rapidly
R	- rapidly
w	- well
M	- moderately well
I	- imperfectly
P	- poorly
VP	- very poorly

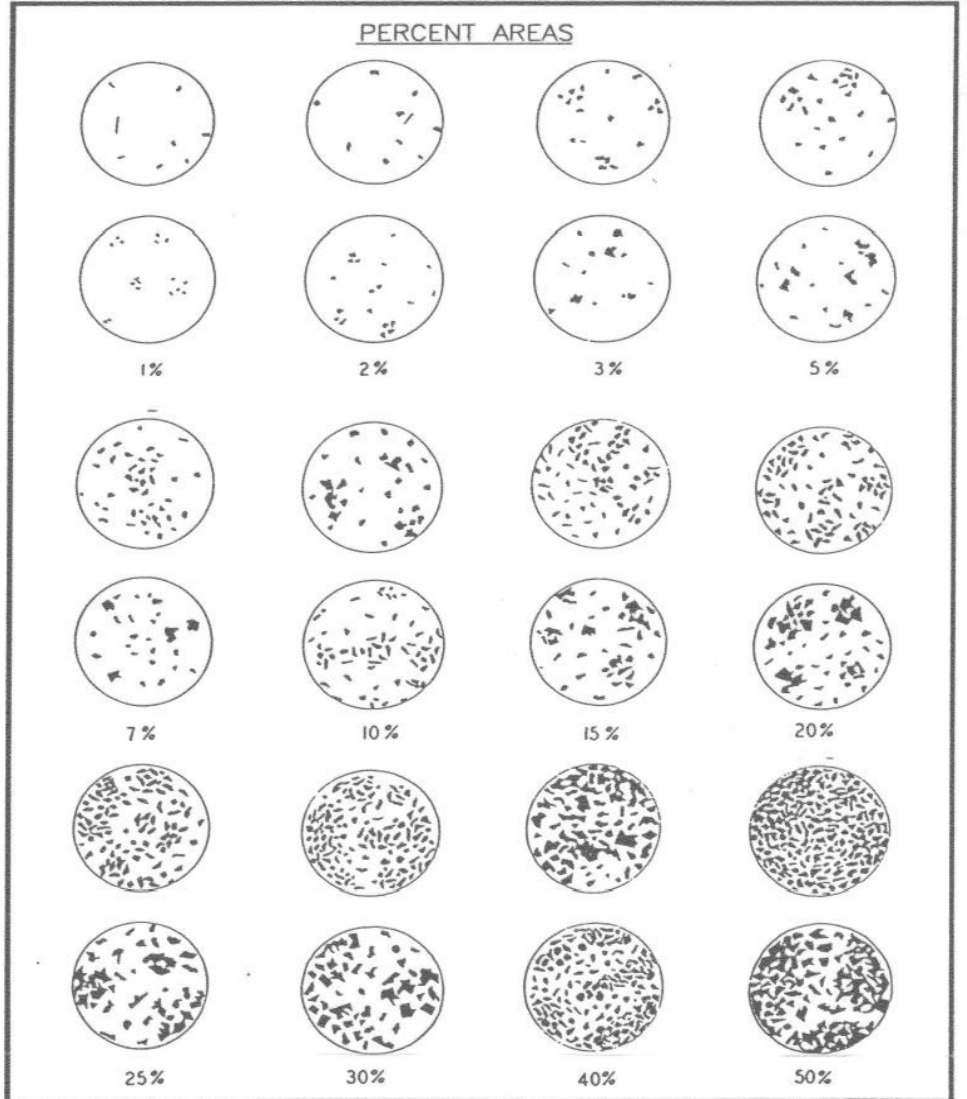


Table 10. Types, kinds and classes of soil structure.

Type	Kind (Kind Code)	Structure Class and Code	Size ¹ (mm)
Blocklike - soil particles arranged around a point and bounded by flat or rounded surfaces BK	Angular blocky (ABK) peds bounded by flattened, rectangular faces intersecting at relatively sharp angles	VF: very fine angular blocky F: fine angular blocky M: medium angular blocky C: coarse angular blocky VC: very coarse angular blocky	<5 5-10 10-20 20-50 >50
	Subangular blocky (SBK): peds bounded by slightly rounded, subrectangular faces with vertices ² of their intersections mostly subrounded	VF: very fine subangular blocky F: fine subangular blocky M: medium subangular blocky C: coarse subangular blocky VC: very coarse subangular blocky	<5 5-10 10-20 20-50 >50
	Granular (GR): spheroidal peds bounded by curved or very irregular faces that do not adjoin those of adjacent peds	VF: very fine granular F: fine granular M: medium granular C: coarse granular VC: very coarse granular	<1 1-2 2-5 5-10 >10
Platelike: soil particles arranged around a horizontal plane and generally bounded by relatively flat horizontal surfaces PL	Platy (PL): peds flat or platelike; horizontal planes more or less well developed	VF: very fine platy F: fine platy M: medium platy C: coarse platy VC: very coarse platy	<1 1-2 2-5 5-10 >10
		Prismatic (PR): vertical faces of peds well defined and vertices ² angular (edges sharp); prism tops essentially flat	VF: very fine prismatic F: fine prismatic M: medium prismatic C: coarse prismatic VC: very coarse prismatic
Structureless: no observable aggregation of primary particles or no definite orderly arrangement around natural lines of weakness MA	Columnar (COL): vertical edges near top of columns not sharp (vertices ² subrounded); column tops flat, rounded, or irregular	VF: very fine columnar F: fine columnar M: medium columnar C: coarse columnar VC: very coarse prismatic	<10 10-20 20-50 50-100 >100
	Single grained (SGR):	Loose, incoherent mass of individual primary particles, as in sands	
	Massive (MA):	amorphous; a coherent mass showing no evidence of any distinct arrangement of soil particles; separates into clusters of particles; not peds	
Cloddy (CDY): not a structure; used to indicate the condition of some ploughed surface, grade, class, and shape too varied to be described in standard terms.			

¹ The size limits refer to measurements in the smallest dimension of platy, prismatic, and columnar peds and to the largest of the nearly equal dimensions of blocky and granular peds.

² Definition of vertex (plural, vertices): the intersection of two planes of a geometrical figure.

Consistence – moist soil	
• Loose:	No intact sample can be obtained.
• Friable:	Structure breaks down with slight force between the fingers.
• Firm:	Structure breaks down with moderate force between the fingers.
• Extremely firm:	Structure breaks down with moderate force between the hands or slight foot pressure.
• Rigid:	Structure breaks down only with foot pressure.

Structure Grade Descriptions

Code		Structure Grade Definition
0	Massive /or single grained used to describe sands	This describes a soil that has no developed structure. There is no aggregation of primary particles or no definite orderly arrangement around natural lines of weakness.
1	Weak	Peds are either indistinct and barely evident in place, or observable in place but incompletely separated from adjacent peds. When disturbed, the soil material separates into a mixture of only a few entire peds, many broken peds and much unaggregated material. Peds are moderately durable, and are evident but not distinct in the undisturbed soil. When disturbed, the soil material parts into a mixture of many well formed, entire peds, some broken peds, and little unaggregated material. The peds may be handled without breaking and they part from adjoining peds to reveal nearly entire surfaces which have properties distinct from those caused by fracturing.
2	Moderate	Peds are durable and evident in the undisturbed soil, adhere weakly to one another, withstand displacement and separate cleanly when the soil is disturbed. When removed, the soil material separates mainly into entire peds. Surfaces of unbroken peds have distinctive properties, compared to surfaces that result from fracturing.
3	Strong	

Mottling Descriptions

Parameter	Code	Description
Abundance	Few	<2% of the exposed surface
	Common	2-20% of the exposed surface
	Many	>20% of the exposed surface
Size	Fine	< 5 mm
	Medium	5-15 mm
	Coarse	>15 mm
Contrast	Faint	Evident only on close examination. Faint mottles commonly have the same hue as the colour to which they are compared and differ by no more than 1 unit of chroma or 2 units of value. Some faint mottles of similar but low chroma and value can differ by 2.5 units of hue.
	Distinct	Readily seen, but contrast only moderately with the colour to which they are compared. Distinct mottles commonly have the same hue as the colour to which they are compared, but differ by 2 to 4 units of chroma or 3 to 4 units of value; or differ from the colour to which they are compared by 2.5 units of hue but by no more than 1 unit of chroma or 2 units of value.
	Prominent	Contrast strongly with the colour to which they are compared. Prominent mottles are commonly the most obvious colour feature in a soil. Prominent mottles that have medium chroma and value commonly differ from the colour to which they are compared by at least 5 units of hue if chroma and value are the same; or at least 1 unit of chroma or 2 units of value if hue differs by 2.5 units.

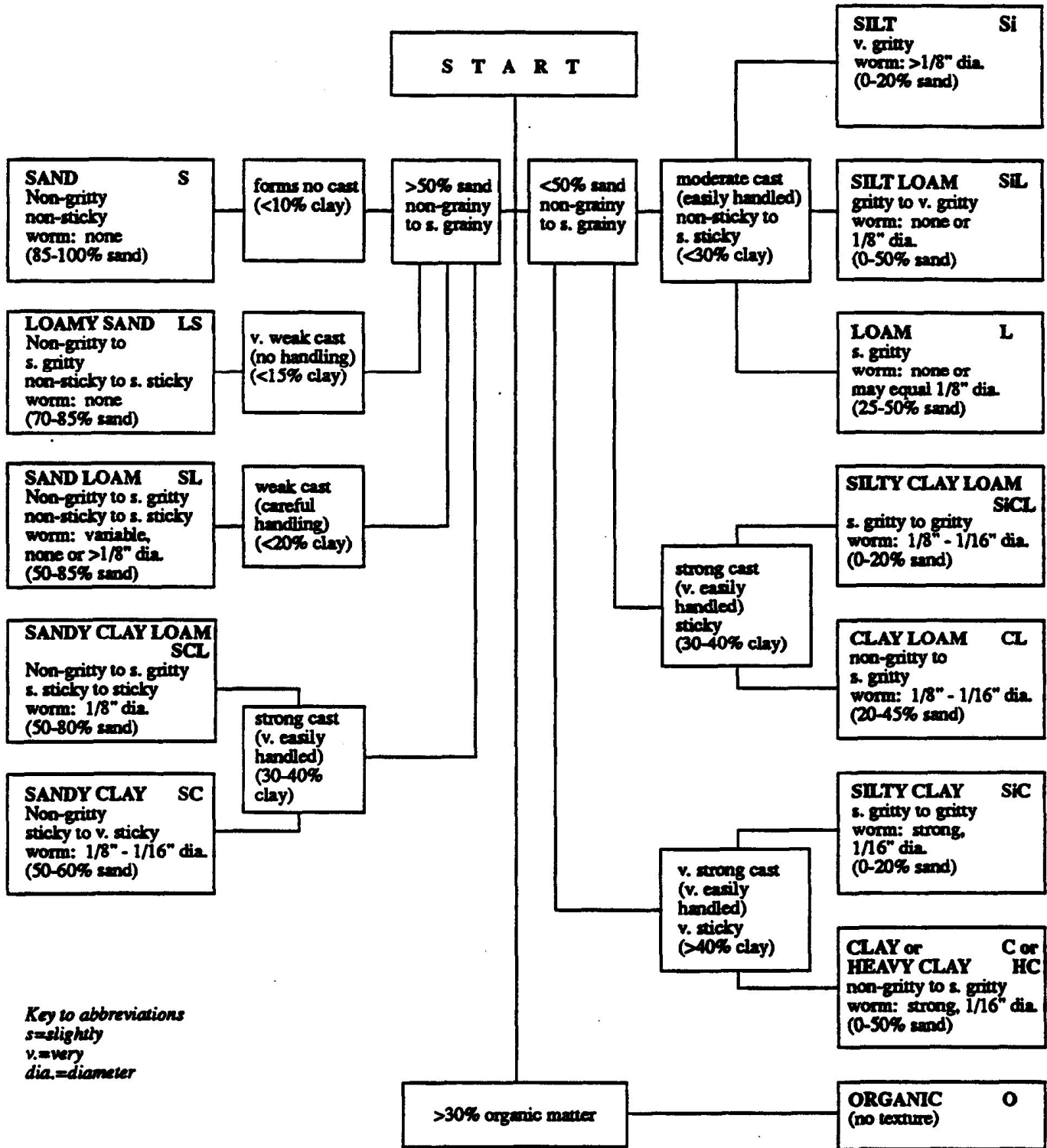
**Taste Test
Stickiness Test
Worm Test**

**Moist
Cast Test**

**Graininess Test
(Organic Matter Test)**

**Moist Cast Test
Stickiness Test**

**Taste Test
Worm Test**



*Key to abbreviations
s=slightly
v.=very
dia.=diameter*

