

**Town of Vermilion**

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Vermilion, AB T9X 1X1
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www.vermilion.ca

**PRIVATE SEWAGE DISPOSAL SYSTEM APPLICATION FORM**

Application Date: _____

Estimated Project Start Date: _____

Estimated Project Completion Date: _____

Applicant Type: ☐ Homeowner ☐ Contractor

Cost of Installation (Labour & Material including Equipment) \$ _____

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 Vermilion:

Street Address: _____

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 #: _____

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

The Inspections Group Inc.

300W, 14310 – 111 Avenue NW
EDMONTON AB T5M 3Z7

Phone: (780) 454 5048 Toll Free: (866) 554 5048
Fax: (780) 454 5222 Toll Free: (866) 454 5222

www.inspectionsgroup.com

questions@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 authority of the Safety Codes Act, the Municipal Government Act, and in accordance with the Protection of Privacy Act (POPA) and the Access to Information Act (ATIA). This information is required and will be used for issuing permits, verifying and monitoring compliance with safety codes, and for property assessment purposes. The name of the permit holder and the nature of the permit may be made available to the public upon request. If you have any questions about the collection or use of your personal information, please contact the Municipality.



PSDS PERMIT APPLICATION CHECKLIST

A COMPLETE SITE EVALUATION REPORT, AS PER THE 2021 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 (Munsell Nomenclature), 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 or equivalent
- ☐ 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.
- ☐ High level alarm make/model.
- ☐ Filter type.

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 or equivalent
- ☐ High level alarm make/model

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 (Munsell Nomenclature), 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, Septic Tank, piping to and throughout final soil treatment component.
- ☐ Tank certification information – CAN/CSA B66 certificate or equivalent
- ☐ Pump, if required by design. Manufacturer and pump curve to ensure flow capacity
- ☐ High level alarm make/model
- ☐ Filter type.



PSDS Application Design Summary

This document must be filled out with ALL relevant information or your application may be returned

Legal Land Description								
Quarter	Section	Township	Range	West of		Lot	Block	Plan
Municipal Address								
Development Details								
Property type _____				New – Renovation – Repair - Replacement (Circle One)				
Total Bedrooms	Occupant Total	Average Daily Flow		Peak Daily Flow				
Soil Information								
Test Pit(s) Depth	Limiting Layer Depth		Restrictive Layer Depth			Depth to Seasonal Water		
Design Loading Rate	Linear Loading Rate		Infiltration Area		Texture	Shape	Grade	
Primary Treatment (Circle all that apply) Holding Tank – Septic Tank – Treatment Plant								
Tank Size		Tank Make/Model				Filter Type		
High Level Alarm Make/Model				Effluent Filter Make/Model				
Additional Information								

All designs must meet the requirements of the current Standard of Practice available at:
https://ebs.safetycodes.ab.ca/documents/webdocs/PI/PSS_SOP_2021-web6.pdf

Please note: NO WORK MAY START WITHOUT A PERMIT BEING ISSUED. An application is not a Permit.

Design Documents may be found at: <https://www.alberta.ca/private-sewage-design-tools>

Alberta Private Sewage Treatment System Soil Profile Log Form

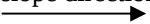
Owner Name or Job ID.												
Legal Land Location								Test Pit GPS Coordinates				
LSD-1/4	Sec	Twp	Rg	Mer	Lot	Block	Plan	Easting	Northing			
Vegetation notes:						Overall site slope %						
						Slope position of test pit:						
Test hole No.	Soil Subgroup			Parent Material			Drainage		Depth of Lab sample #1		Depth of Lab sample #2	
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:

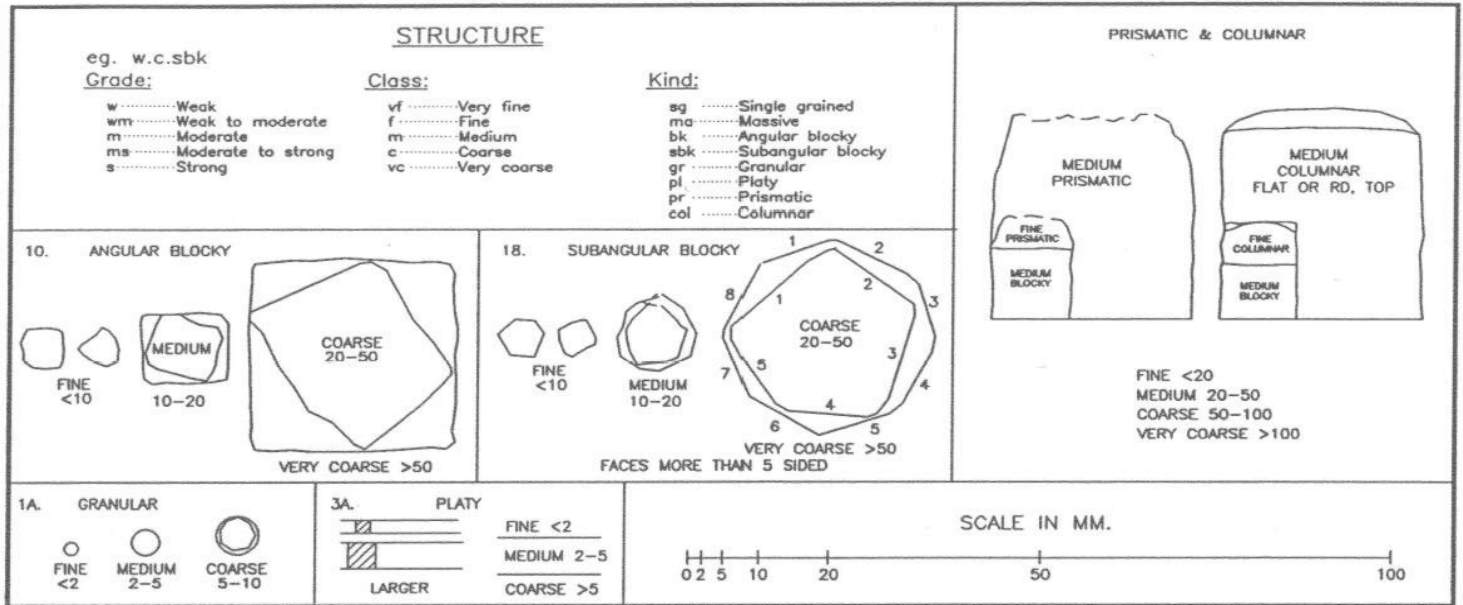
GPS coordinates of well:

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

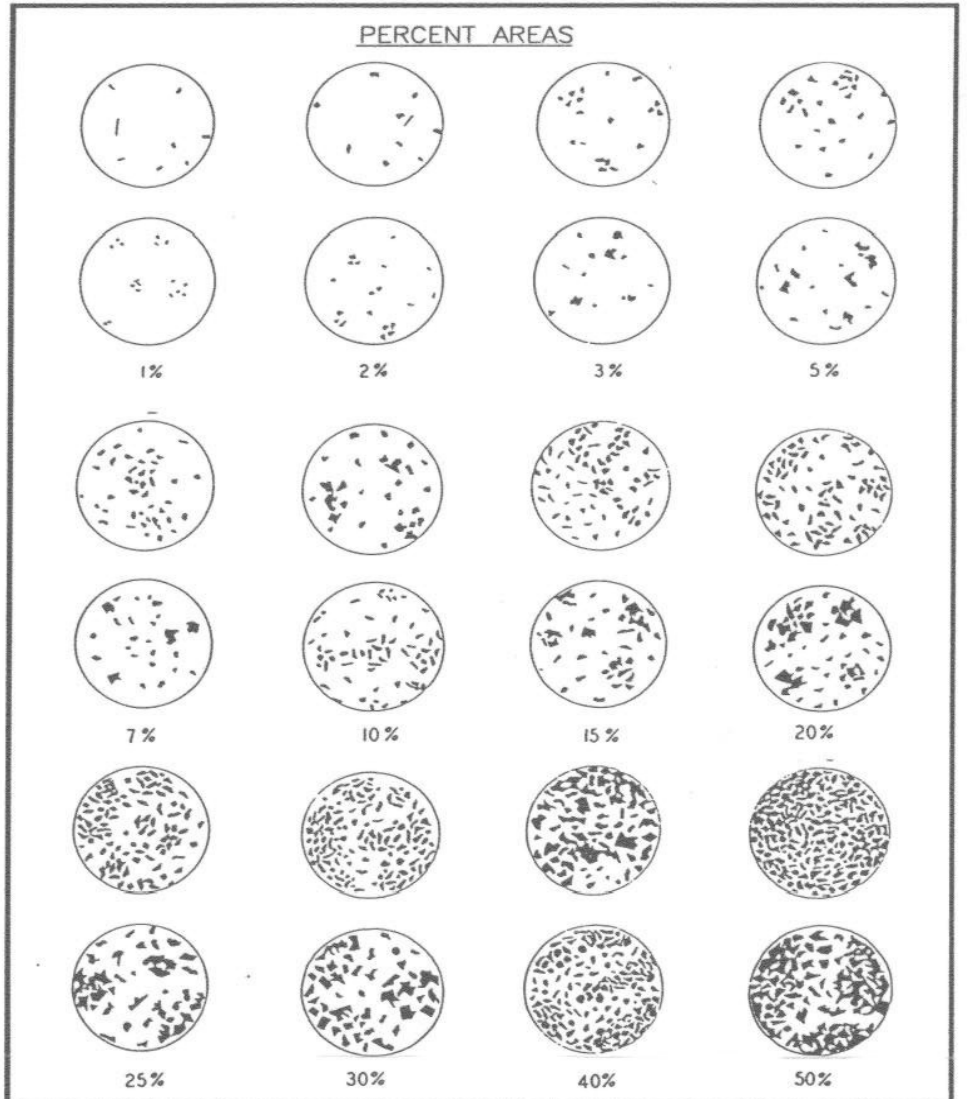


Table 10. Types, kinds and classes of soil structure.

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	<10 10-20 20-50 50-100 >100
	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
Structureless: no observable aggregation of primary particles or no definite orderly arrangement around natural lines of weakness MA	Single grained (SGR): Massive (MA):	Loose, incoherent mass of individual primary particles, as in sands 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.

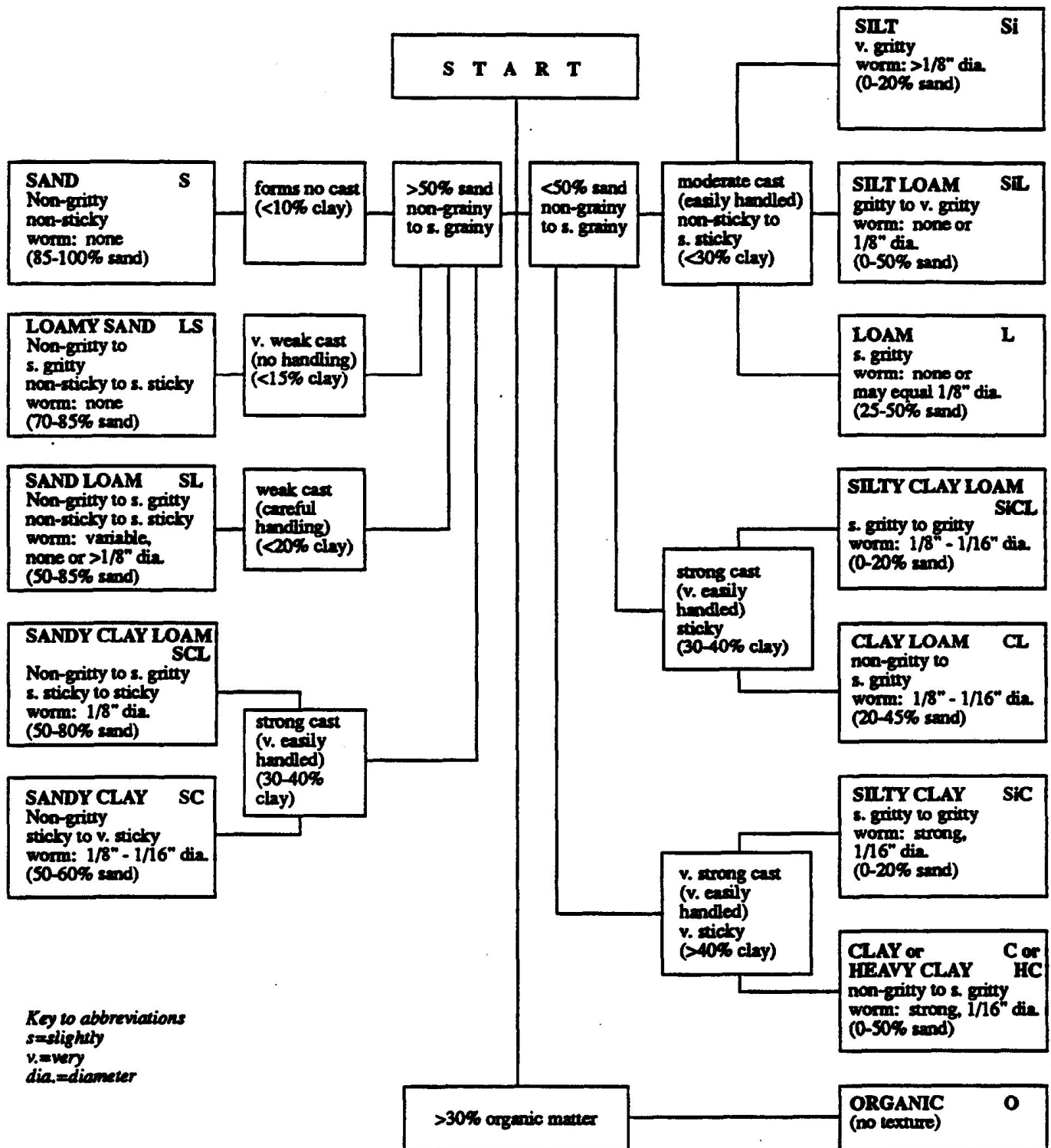
Consistence – moist soil	
• Loose:	No intact sample can be obtained.
• Friable:	Structure breaks down with slight force between the fingers.
• Firm:	Structure breaks down with moderate force between the fingers.
• Extremely firm:	Structure breaks down with moderate force between the hands or slight foot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

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.



SYSTEM DRAWING

✓ Complete drawing of proposed system, layout of laterals, position and location of tank etc.



Comments:
