



**Bay Mills Indian
Community
EPA 319 program
Onsite Waste
inventory
by Dan Tadgerson
REHS/RS**



BAY MILLS INDIAN COMMUNITY

- Located on Eastern end of Lake Superior
- Population of 1,820 with a land base of 3,444 with almost ½ living on the reservation.
- 33% of the land base is wetland or surface water
- 51% forested.
- EPA approved Assessment and Management plan

Bay Mills Indian Community
Nonpoint Source Pollution Assessment Report and Management Plan



Bay Mills Indian Community
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Brimley, MI

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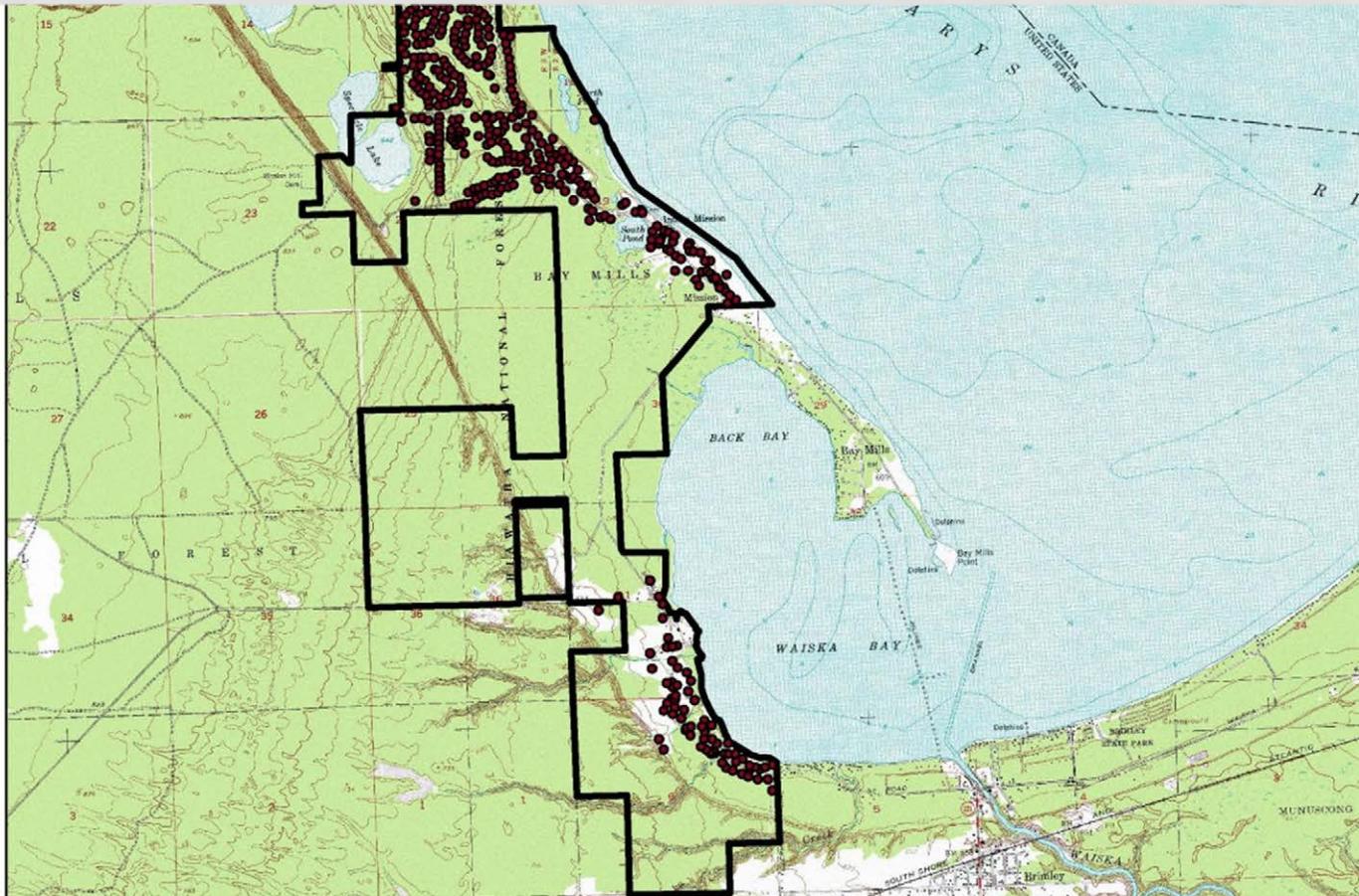
Bay Mills Indian Community



Lake Superior

Canada





USGS TOPOGRAPHIC MAP WITH LAND BOUNDARY AND SEPTICS

THE TWO AREAS ARE IN VERY DIFFERENT LOCATIONS, THE NORTH SITE IS IN SANDY SOILS AND THE SOUTHERN AREAS ARE IN HEAVY SOILS WITH HIGH GROUND WATER.



ILLUSTRATION OF ONSITE SEPTIC

NOTICE PROXIMITY TO SURFACE WATERS AND RECREATIONAL SWIMMING AREAS.

GIS DATA SETS

- State Data
 - Geographic Data
- Federal Data
 - Indian Health Service
 - NRCS soils data
 - NWI data
 - USGS topographic Data
- Private data
 - Four different firms

ARC MAP DATA TABLE

The screenshot shows the ArcMap interface with a data table window open. The table contains the following data:

OBJECTID	SHAPE	Lot ID	address	name	as_built	tank_size	last_pumped	pass_fail
204	Point	12660	12660 W. Wolf Lane	Stallman, Aneen	<Raster>	1250	<Null>	<Null>
205	Point	12654	12654 W Wolf Lane	Cameron, Chelsey	<Raster>	1250	<Null>	<Null>
206	Point	12646	12646 W. Wolf Lane	Lyons, Walt	<Raster>	1250	<Null>	<Null>
207	Point	12638	12638 W. Wolf Lane	Bedell, Sarah W.	<Raster>	1250	<Null>	<Null>
208	Point	12643	12643 W. Wolf Lane	Teuple, Sarah	<Raster>	1250	<Null>	<Null>
210	Point	12634	12634 W. Wolf Lane	Bedell, Judy	<Raster>	1250	<Null>	<Null>
211	Point	12620	12620 W. Wolf Lane	Hutchinson, John	<Raster>	1250	<Null>	<Null>
212	Point	12621	12621 W. Wolf Lane	Kuzmik, Carrie	<Raster>	1250	<Null>	<Null>
216	Point	12580	12580 W. Wolf Lane	Lyons, Heather	<Raster>	1250	<Null>	<Null>
217	Point	12576	12576 W. Wolf Lane	Massey, Martin	<Raster>	1250	<Null>	<Null>
219	Point	12568	12568 W. Wolf Lane	Massey, Steve	<Raster>	1250	<Null>	<Null>
221	Point	12635	12635 W. Turtle Drive	Teuple, Robin	<Raster>	1250	<Null>	<Null>
225	Point	12587	12587 W. Turtle Drive	Cameron, Allyn	<Raster>	1250	<Null>	<Null>
226	Point	12576	12576 W. Turtle Drive	Kinney, Patricia	<Raster>	1000	<Null>	<Null>
227	Point	12563	12563 W. Turtle Drive	Passage, Robert Sr	<Raster>	1000	<Null>	<Null>
228	Point	12551	12551 W. Turtle Drive	Jamros, James	<Raster>	1000	<Null>	<Null>
232	Point	12515	12515 W. Turtle Drive	Willis, Marie	<Raster>	1000	<Null>	<Null>
238	Point	12289	12289 W. Lakeshore Drive	Miller, Jeremy	<Raster>	1250	<Null>	<Null>
273	Point	12062	12062 W. Lakeshore Drive	LeBlanc, Albert Jr.	<Raster>	1250	8/12/2010	<Null>
276	Point	12040	12040 W. Lakeshore Drive	Lothrop, Albert	<Raster>	1250	3/1/2004	<Null>
281	Point	11474	11474 W. Lakeshore Drive	Chartrand, Michael	<Raster>	1000	4/1/1996	<Null>
290	Point	11282	11282 W. Lakeshore Drive	Perron, Wanda	<Raster>	1000	<Null>	<Null>
292	Point	6284	6284 Memorial Drive	Summerville, Rhonna	<Raster>	1000	<Null>	<Null>
296	Point	11184	11184 W. Lakeshore Drive	Baragwanath, Mike	<Raster>	1250	3/1/2009	<Null>
298	Point	11056	11056 W. Lakeshore Drive	Tim Kinney II	<Raster>	1000	9/1/2008	<Null>
302	Point	11071	11071 W. Lakeshore Drive	Jackin Harrington	<Raster>	<Null>	<Null>	<Null>
333	Point	12058	12058 W. Lakeshore Drive	LeBlanc, Christine	<Raster>	1250	10/1/2008	<Null>
338	Point	12303Wb	12303b W. Specticle Lake Road	Ken Hojake	<Raster>	1250	<Null>	<Null>
340	Point	11301	11301 W. Lakeshore Drive	Perron, Kevin	<Raster>	1000	3/1/2004	1
341	Point	11196	11196 W. Lakeshore Drive	Carrick, Ron Sr.	<Raster>	<Null>	<Null>	<Null>
374	Point	11326	11326 W. Lakeshore Drive	Carrick, Justin C.	<Raster>	<Null>	<Null>	<Null>
375	Point	11328	11328 W. Lakeshore Drive	Carrick, Justin T. Jr	<Raster>	1250	<Null>	<Null>
385	Point	12251	12251 W. Lakochoro Drive	Kavo, Shory	<Raster>	1000	9/22/2010	1
391	Point	2792	2792 S. Red Pine Lane	Shipp, Halden Jr	<Raster>	1250	<Null>	<Null>
396	Point	12610	12610 W. Wolf Lane	Craven, Brittney	<Raster>	1250	<Null>	<Null>

26850087.792 604842.779 Feet

base0811 - ArcMap - ArcInfo

File Edit View Bookmarks Insert Selection Geoprocessing Customize Win

1.3.148

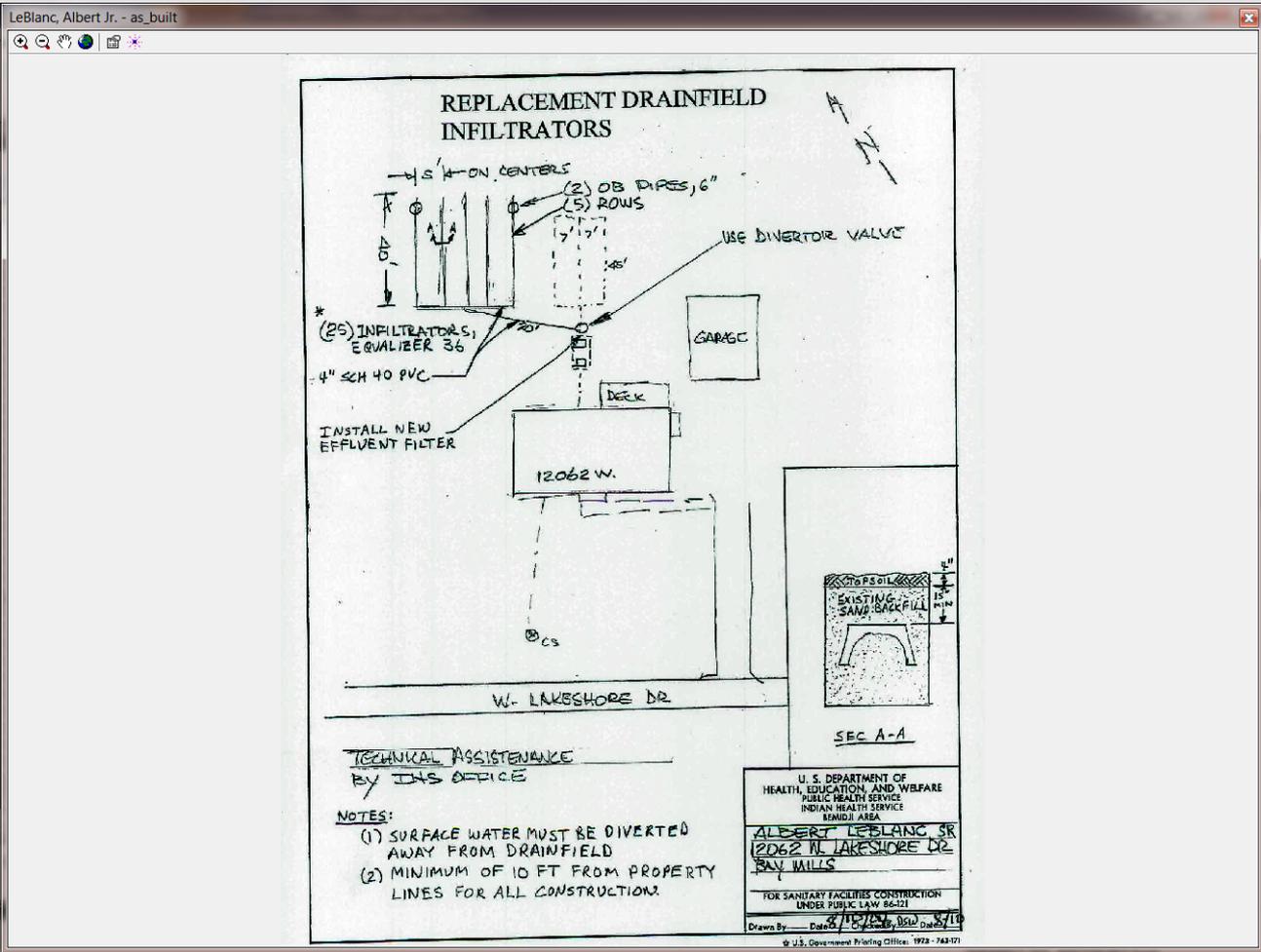
Table Of Contents

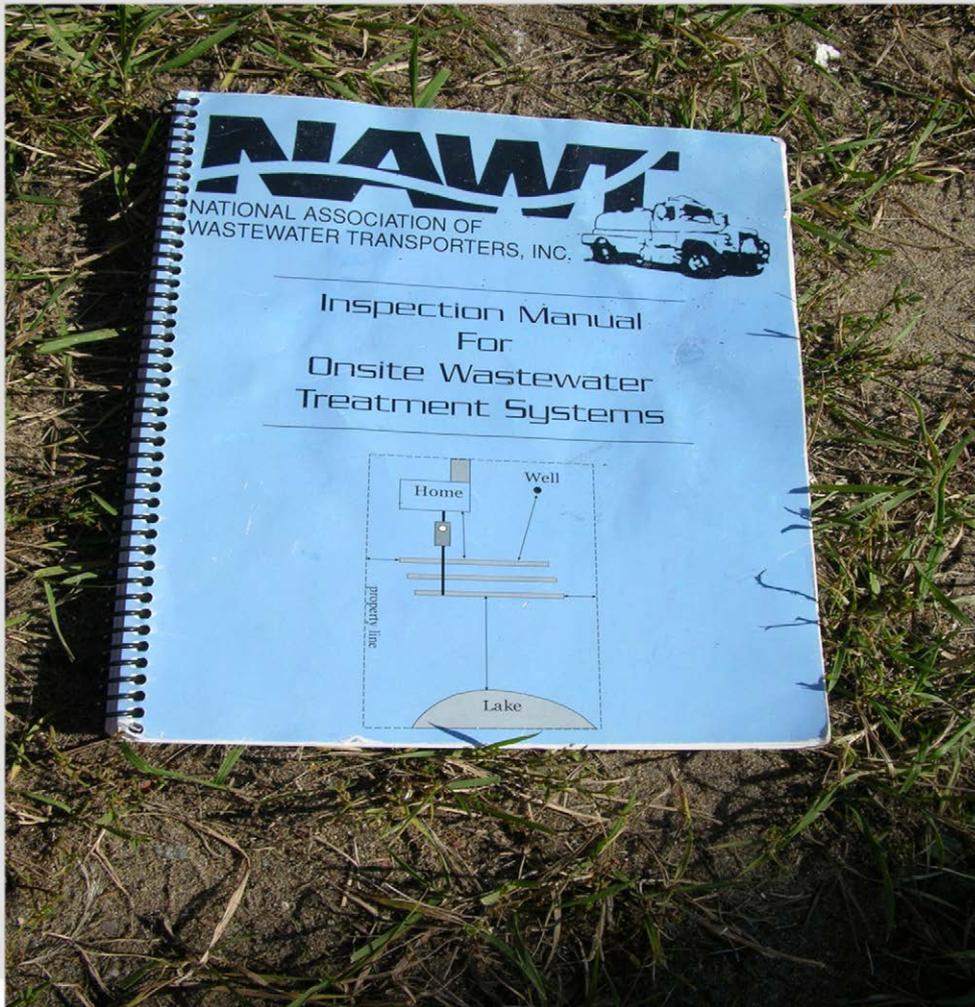
Layers

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- streamcrossings
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- allroads_033v4b
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- Green: Band_2
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- C:\Users\dtadgerson\Desktop\bmdwg'
- Export_Output_5

Table

OBJECTID *	SHAPE *
204	Point
205	Point
206	Point
207	Point
208	Point
210	Point
211	Point
212	Point
216	Point
217	Point
219	Point
221	Point
225	Point
226	Point
227	Point
228	Point
232	Point
238	Point
273	Point
276	Point
281	Point
290	Point
292	Point
295	Point
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302	Point
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338	Point
340	Point
341	Point
374	Point
375	Point
385	Point
391	Point
396	Point



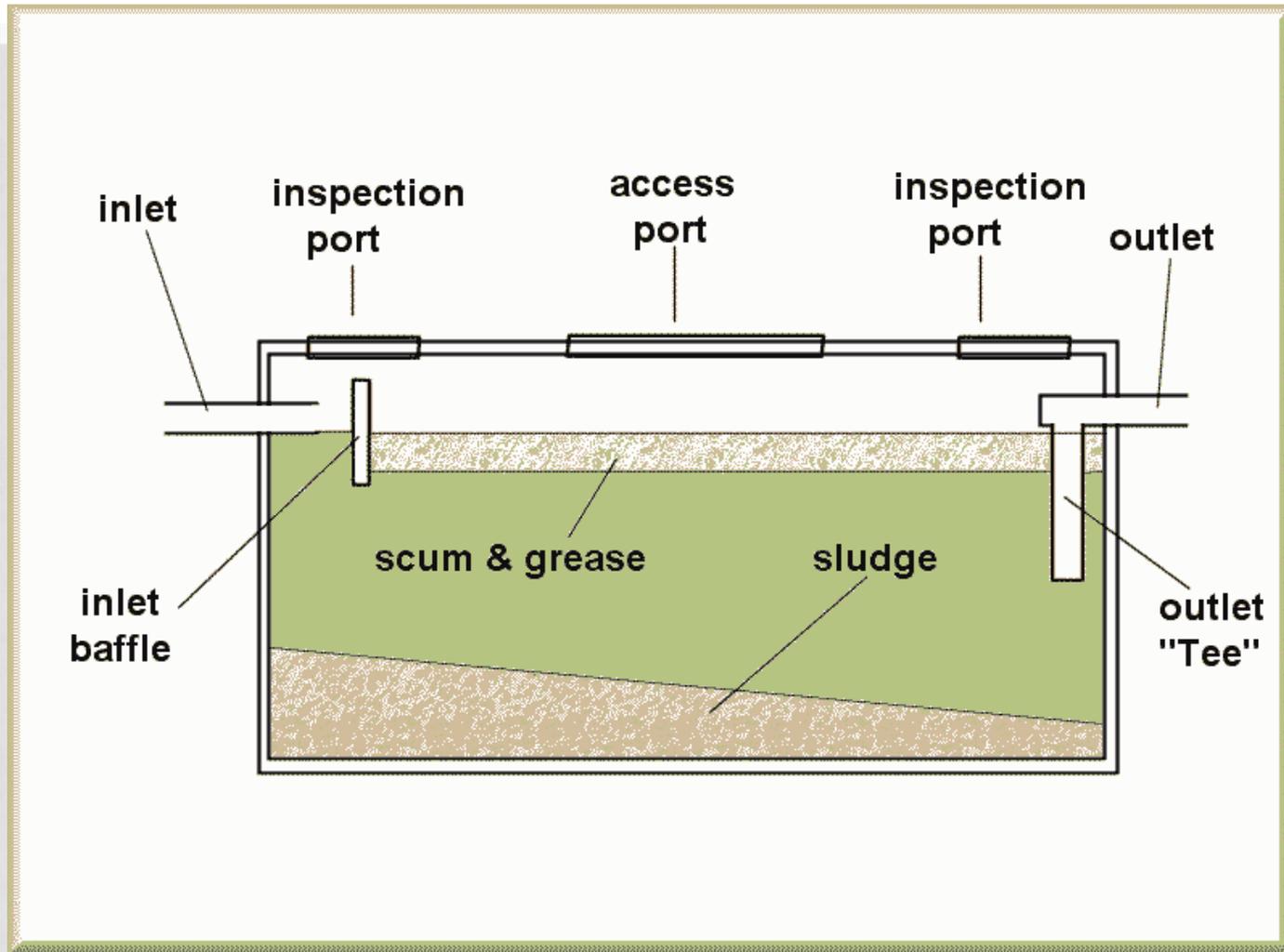


TWO STAFF TRAINED AND CERTIFIED

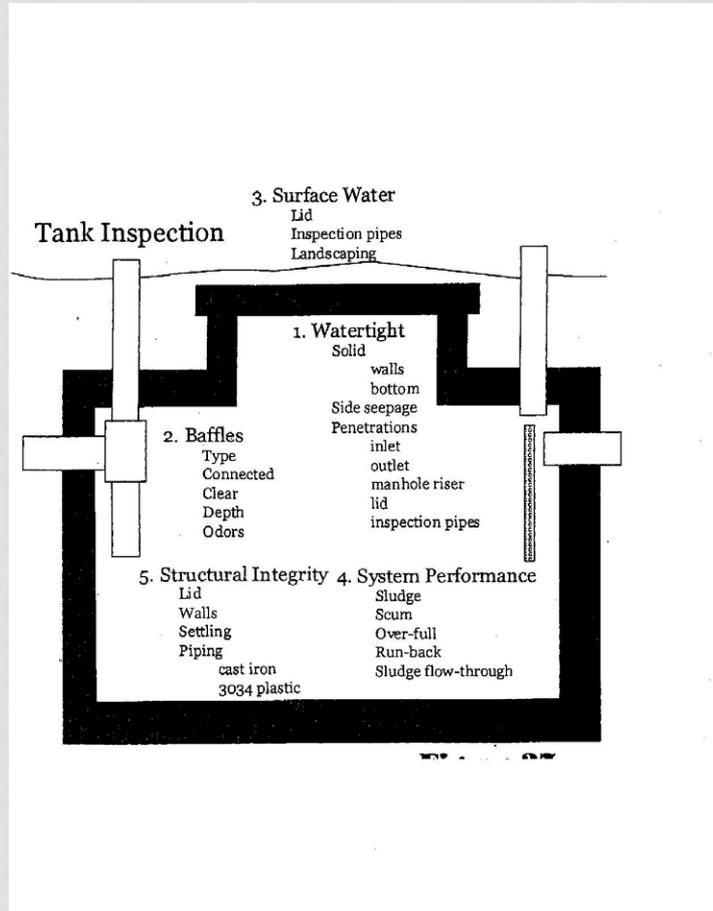
SEPTIC INSPECTIONS



SEPTIC TANK



THINGS TO LOOK FOR



THINGS TO LOOK FOR ARE

- Green grass
- AREAS
- Wet areas
- Black, Water Surfacing
- Cracked Lids
- Tank Capacity
- Washouts



THINGS TO LOOK

Leaking, ponding, black
water, stressed areas,
green areas.



NEW POWTS PROGRAM

We were just notified of this so ideas proposed



Voluntary National Guidelines for Management of Onsite and Clustered (Decentralized) Wastewater Treatment Systems



PRIVATE ONSITE WASTEWATER SYSTEM (POWTS)

- Homeowner Awareness Model -in areas of low environmental sensitivity
- Maintenance Contract Model - in cluster, systems or mechanical components or in more sensitive areas
- Operating Permit - in critical areas, larger systems, or systems treating higher strength waste.
- Responsible Management Entity with Operation and Maintenance Model - owners pay a entity to care for the system
- Responsible Management Entity Ownership Model - like most Housing authorities operate and maintain systems.



POWTS MODELS

HOUSING AUTHORITY, UTILITIES, AND HOME OWNER

HOMEOWNER GUIDE

A Guide to Your Septic System

Read and follow the Dos and Don'ts list provided herein:

DO

- Conserve water to reduce the amount of wastewater that must be treated and disposed.
- Repair leaking faucets and toilets promptly.
- Only discharge biodegradable wastes into system.
- Divert down spouts and other surface water away from your soil treatment area
- Keep your septic tank cover accessible for tank inspections and pumping.
- Have your effluent screen inspected and cleaned once a year.
- Have your septic tank pumped regularly inspected for leaks and cracks.
- Call a professional when you have problems.
- Compost your garbage or put it in the trash instead of putting it down the sink.
- Make sure any water conditioning or softening equipment is approved for use with your system and that it is properly set for your water conditioning/softening needs and operating correctly.

DON'T

- Flush sanitary napkins, tampons, disposable diapers, condoms, wipes, cat litter and such products into your system.
- Dump solvents, oils, paints, thinners, disinfectants, pesticides or poisons down the drain; these can disrupt the treatment process and contaminate groundwater.
- Dig in your soil treatment area or build anything over it.
- Plant anything over your soil treatment area except grass.
- Drive over your soil treatment area or compact the soil in any way.
- Use a garbage disposal unless your septic tank was sized to handle the required sludge storage volume.

SAFETY FIRST!

- NEVER physically enter a septic tank or other parts of the treatment system. Call your service provider!
- Keep access areas locked at all times to prevent unauthorized entry

Your Local Service Provider is:



To locate a service provider or other wastewater treatment professional in your area, go to www.SepticLocator.com

PAGE 2 HOMEOWNER GUIDE



Homeowner's Onsite System Guide and Record Keeping Folder

This folder provides you with essential information about your onsite wastewater treatment system and guidelines for operation and maintenance to keep your system working effectively and trouble-free while protecting water quality and the environment. It also provides a place to keep all documents, records and other information about your onsite wastewater treatment system including your permit, site drawings, records of maintenance and repairs performed, and other information.

System Permit:

Issued to: _____ Date Issued: _____

Address: _____

Legal Description: _____

System Description:

Design Flow (gpd) or Number of Bedrooms: _____

Septic Tank volume (gallons): _____ Number of Compartments: _____

Dosing Tank or Pump Compartment capacity (gallons): _____

Tank(s) Manufacturer(s): _____

Advanced pretreatment Device: Yes No Brand: _____

System Accessories:

- | | | |
|--|---|---|
| <input type="checkbox"/> Effluent screen | <input type="checkbox"/> Diversion or Alternating Valve | <input type="checkbox"/> Control Panel with audible/visible alarm |
| <input type="checkbox"/> Pump or siphon | <input type="checkbox"/> Distribution box or Drop box | |
| <input type="checkbox"/> Other _____ | | |

Dispersal Method:

- Trenches or bed (and number): _____ Type of dispersal media (e.g., rock/gravel, fabric wrapped pipe, chambers, polystyrene socks, etc.): _____

- | | | |
|---|-----------------------------------|--|
| <input type="checkbox"/> Drip Dispersal | <input type="checkbox"/> At-Grade | <input type="checkbox"/> Lagoon |
| <input type="checkbox"/> Spray Irrigation | <input type="checkbox"/> Mound | <input type="checkbox"/> Discharge to lake/river |
| <input type="checkbox"/> Other _____ | | |

Dispersal Field Dimensions: _____

Installation Contractor: _____

Address: _____ Telephone: _____

Service Provider: _____

Address: _____

Telephone: _____ Service Contract: Yes No

Pumper: _____

Address: _____

Telephone: _____ Service Contract: Yes No

THANK YOU HOPE THIS HELPED

