Homeowner Agreement

To Participate in Florida Onsite Sewage Nitrogen Reduction Strategies Study

December, 2010

Nitrogen is an important concern for water quality. Animals, crops, ecosystems, and human health can be adversely impacted by the presence of nitrogen in water supplies. The environmental effects of nitrogen on groundwater and surface water can ultimately lead to the degradation of surface waters in watershed systems that have strong groundwater/surface water interactions. Nitrogen that enters surface water bodies via these interactions can lead to algal blooms and eutrophication. These processes lead to oxygen depletion in surface waters which can be harmful to natural aquatic life. In Florida, the protection of watersheds, in particular surface water bodies, has led to the legislation of protection of these areas (i.e., the Wekiva River Protection Act).

A research study to examine nitrogen reduction strategies for onsite sewage treatment and disposal systems in the State of Florida is underway. The project is being conducted by Hazen and Sawyer, P.C an environmental engineering firm under contract with the Florida Department of Health (FDOH).

One element of this research project is to prioritize nitrogen removal technologies under field conditions. To reach this goal, field-testing of nitrogen reducing technologies at home sites is needed to compare various treatment systems for their ability to remove nitrogen. Monitoring nitrogen reduction of the systems will occur at various locations in the State of Florida. In addition, the research project includes subsurface and groundwater monitoring which will be used to assess the current level of nitrogen reduction obtained by Florida soils and to assess groundwater impacts due to conventional and nitrogen removal systems.

The participation of select homeowners is essential for the success of this research program. Therefore, we are looking for volunteers to allow their onsite wastewater systems to be used for this project. All homeowners will remain anonymous in all data analysis and reporting. The study will last up to two years with all site visits scheduled at the homeowner's convenience. The work at each property may include:

- Property walkovers to characterize land uses and features
- Collection of information from the owner regarding water use and wastewater system data
- Installation of new wastewater treatment equipment
- Soil borings
- Installation of monitoring wells
- Collection of wastewater samples
- Monitor energy used and other operational costs

Hazen and Sawyer, P.C. will be responsible for: application for permits, modifications, operation, maintenance, monitoring, inspections, and removal or leaving the system in place at study termination. The project funds will cover the cost of any permits required, any new technology installed, maintenance costs, and restoration of property to original condition. All project payments will terminate upon site closure. The homeowner shall agree to not tamper with the system during the monitoring period. The site will be restored to the original condition upon completion of the study if desired by the homeowner. All homes participating in the study will receive a \$250 cash incentive.

If you are interested in becoming involved in this important research project, please fill in the information below and sign where indicated. We will coordinate all our activities with you and give you any additional information you require prior to beginning work at your property.

Thank you for taking the time to consider this request, and we look forward to your response.

Hazen and Sawyer, P.C.

Name:	
Address:	
Mailing Address:	
Telephone:	
Fax:	
Email:	
Type of system ins	stalled/existing to be evaluated: 1200 Gal Septic Tank



HAZEN AND SAWYER, P.C By: Damann L. Anderson Vice President Title:

encl.: Residential Evaluation Survey

RESIDENTIAL EVALUATION SURVEY

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Nam	ame:	Date: _11 F	eb. 2011
Time	me:		
Stree	reet Address:		
City	ity: Gibsonton St	ate: FL Zip Co	ode: 33534
Mail	ailing Address (if different from above)	-	
3353	3534		
Dayı	aytime Phone (Work or Cell):		_
Ever	vening phone (Home or Cell):		
Parc	rcel #:		
Desi	esigner:		
Insta	staller:City :		State :
Prop	operty Size (acres or sq. ft.) :		
	0		
<u>A. H</u>	. <u>Home/Residents</u>		
1.	Is this your first home with an on-site wastewater trea	tment system?	NO
2.	Did you receive any septic system user information?		NO
3.	Did you receive the as-built drawing for the system?		NO
4.	Any additions to the home since septic system was be	uilt?	
	BedroomsNO		
	BathroomsNO		
	OtherNO		
5.	Type of use: Permanent		
	If seasonal, number of months used		
	a. Number of people living in the home: Adults (18-65): <u> </u>	F
	Seniors ((>65): 1M	1F
	Children	(<13):M	F
	Teenage	rs (13-17): M	F
	b. Guests (Approximate number and frequency): _O	vernight? 2 or 3 sever	al time per
year_	ar		
	c. Number of bedrooms:3 Number	of bathrooms:3	
	d. Number of pets: DogsX Cats3	Number of pet bat	ths per month:0
6.	Number of showers per week:14 Number	of baths per week:	0
7.	Water supply: Private well /		
8.	Do you have an in-home business? NO		

If "yes", what type?

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	9. Do you use septic system additives? NO
	If "yes", what products? Frequency:
DC	rates (completed by OPM complete manides on how common if we complete manides)
	vstem (completed by O&M service provider or homeowner if no service provider)
10.	Type of pretreatment system: Septic tank ATU Media filter Constructed wetland
	a. Specific type of system
	b. Make and Model
11.	How old is the system?13 (years) Date of last pump out:none
12.	Has the system ever backed up? NO
13.	Have the baffles ever been plugged? NO
14.	Effluent screen in septic tank outlet? YES / NO ??
15.	Has effluent screen ever plugged? YES / NO Date(s):
16.	Has the system ever been repaired? NO
	Record of System's Service:
17. 18. 19.	Has effluent ever surfaced? NO Has the alarm ever sounded? NO Soil type – at drain field depth or lower:
20.	Type of distribution/dispersal system:
20.	□Gravity □Trench □ Pressure dose X-Mound □Drip □Spray □Other:
21.	Control system: Demand / Timed
22.	Design rate for system: (GPD)
23.	Septic tank size:1200(gallons) Pump tank:NO(gallons)
24.	Sludge levels in septic tank: 1 st compartment accumulation
	Floating materials
	2 nd compartment accumulation
	Floating materials
25.	Sludge level in pump tank: Accumulated
	Floating materials
26.	Is the pump working? (DNA)

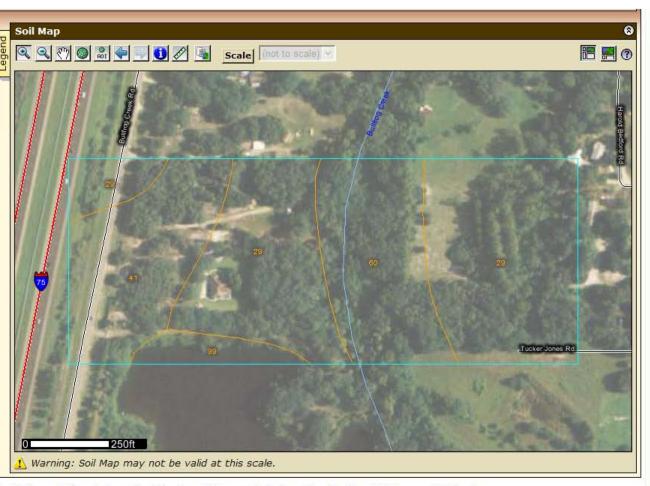
27.	Du	ration of pump cycle: (minutes) Pump drawdown:
<u>C. V</u>	Vate	<u>r Use</u>
28.		tual indoor water use (GPD): Average: High: Low: ading this data from: cycle counter hour meter on pump water meter other
29.		tual outdoor water use (GPD): Average: High: Low: ading this data from: cycle counter hour meter on pump water meter other
<u>D. A</u>	ddit	ional Information (completed by homeowner or at site visit and evaluation)
30.	Wa	ater supply:
	a.	Raw Water Quality Characteristics: Hardness (gpg) Iron (ppm) TDS (ppm) pH Chlorine (total or free) (ppm)
	b.	Other Water Quality characteristics: Hydrogen Sulfide (ppm) Sulfates (ppm) Alkalinity Other 1 Other 2 Other 3 Other Comments
31.	Wa	ater treatment device(s):
	a.	Is a water softener used? NO Back flushes to:
		Brand Model/Year Installed
		Regeneration Method? Timer / Demand Initiated Regeneration (Meter or Sensor) Softening Regenerant? NaCl / KCl Salt per Regeneration (lbs)
		Estimated Brine Volume (gallons) Combined Discharge TDS (ppm)
		Backwash Time (min) Backwash Flow Rate (gpm)
		Backwash Volume (gallons) Fast Rinse Time (min)
		Fast Rinse Flow Rate (gpm) Fast Rinse Volume (gallons)
		Total Regeneration Water (gallons) Total Time for Regeneration (min)
		Avg. Flow to Drain during Regeneration (gpm) Regenerations per month
		Average Daily Drain Water (gallons)
	b.	Reverse osmosis? NO Discharges to:

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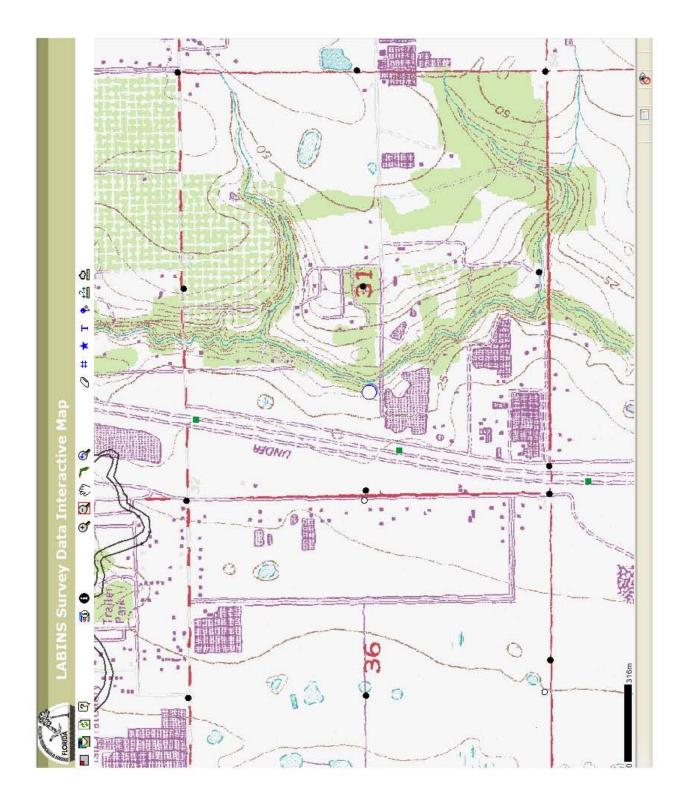
		Brand Model/Y	Year Installed	
		Auto Shut Off? YES / NO Rated	d Capacity (gallons/day)
		Daily water consumed (gallons)	Stated Recovery Ratio	
		Estimated Daily Water to Drain (gal	llons)	
	c.	Backwashing Water Filter (iron, sediment, etc)?	YES / NO	
		Back flushes to:	Brand	
		Model/Year Installed]	Regenerant (if any)	
		Regeneration Frequency]	Backwash Time	(min)
		BW Flow Rate (gpm)	BW Volume	(gallons)
		Fast Rinse Time (min)	FR Flow Rate	(gpm)
		FR Volume (gallons)	Total Regenerant Water	(gallons)
		Total Time for Regeneration (min)	Avg. Flow to Drain	(gpm)
		Regenerants Per Month Average	Daily Drain Water	(gallons)
	d.	Other Water Treatment Devices:500 Gal Aera	tion Tank between well and hous	e
	e.	Treated Water Quality Characteristics:		
		Hardness (gpg) Iron	(ppm)	
		TDS (ppm) pH Chlor	rine (free) (ppm)	
		Other Water Quality characteristics:		
		Hydrogen Sulfide (ppm) Sulfates	(ppm) Alkalinity	
		Other 1 Other 2	Other 3	
		Other Comments		
32.	Is t	there an outside power supply? YES		
		If yes, does it have its own breaker?YES		
		How many amps? _50 Amp supply to Pump Hou	se	
33.	Is t	there an outside water spigot? YES		
		If yes, does it require a key?NO		

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Map Unit L	egena		(?
Hillsborou	ugh County, Florid	a (FL057)	8
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
29	Myakka fine sand	13.1	54. <mark>8</mark> %
41	Pomello fine sand, 0 to 5 percent slopes	4.9	20.5%
60	Winder fine sand, frequently flooded	4.9	20.7%
99	Water	1.0	4.0%



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June 30, 2011 soil boring, downgradient of mound:

0-1.25′	Topsoil
1.25-3.15'	10YR6/1 gray fine sand
2.8′	10YR6/1 gray fine sand with 10YR2/2 black stripes
3.15-4.15'	10YR2/2 black fine sand
4.15-5.55'	10YR3/2 very dark grayish brown fine sand
5.55'-6.25'	10YR3/1 very dark gray fine sand
6.25'-8.6'	10YR2/1 black silty fine sand
8.6'-9'	10YR2/1 very moist black fine sand
9'-	10YR3/1 saturation very dark gray fine sand

¾" Standpipe piezometer, 5' screen installed.