

Onsite Sewage Treatment and Disposal System (OSTDS) Data Management in Florida

Kara Loewe and Eberhard Roeder

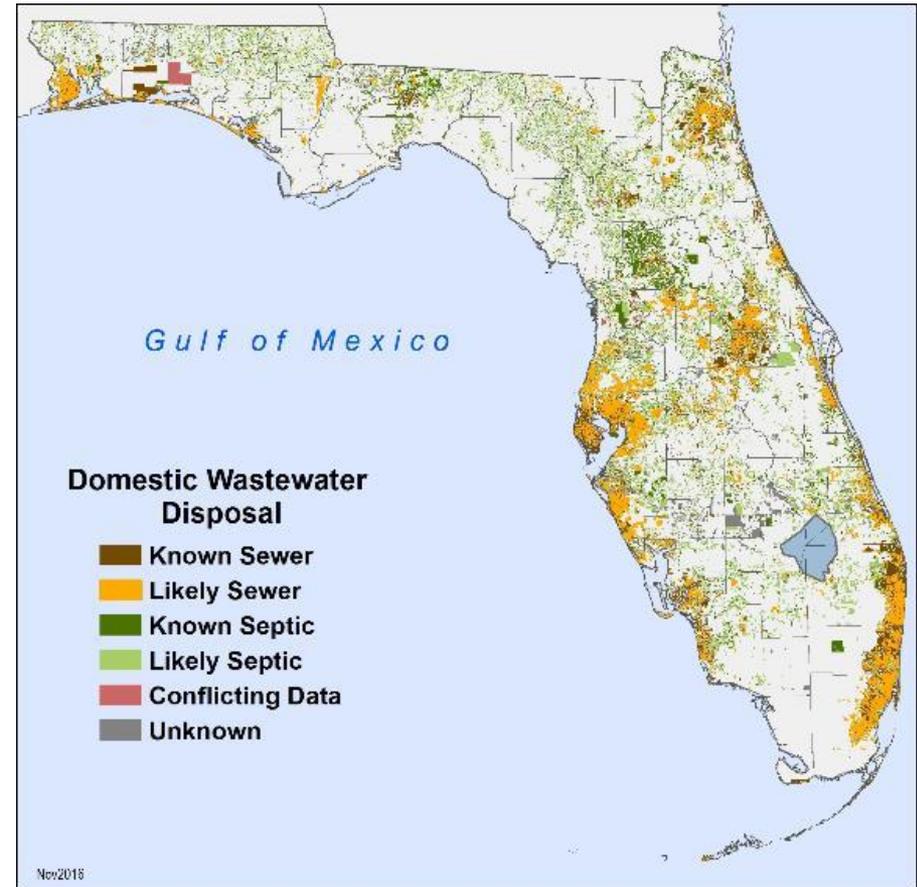
Division of Disease Control and Health Protection

Bureau of Environmental Health

Onsite Sewage Programs

OSTDS in Florida

- More than 2 million OSTDS
- Florida Department of Health (FDOH) regulates OSTDS
 - 67 County health departments – permitting
 - Central office – consistency and technical assistance



Historical Record Keeping

COUNTY	1970(census)	1971	1972	1973	1974	1975	1976	1977	1978	1979
COUNTY	1970(census)	1971	1972	1973	1974	1975	1976	1977	1978	1979
Alachua	11,786	1,287	1,285	1,276	1,443	1,080	1,345	1,327	1,363	1,414
Baker	1,228	26	45	58	244	164	349	349	374	265
Bay	11,346	606	535	444	928	667	1,023	1,118	912	381
Bradford	2,963	117	173	68	167	217	339	462	449	337
Brevard	20,394	280	323	631	549	364	576	904	1,324	1,921
Broward	84,524	1,297	1,044	976	1,537	1,076	2,033	1,936	1,644	1,782
Calhoun	1,671	58	43	29	96	75	83	77	75	132
Charlotte	6,337	1,337	908	540	1,021	532	1,206	1,532	1,877	2,165
Citrus	8,021	445	1,780	1,144	1,819	1,271	1,727	1,574	1,625	1,583
Clay	6,297	775	915	470	1,029	505	614	765	957	996
Collier	7,489	996	864	2	890	617	1,783	1,390	1,440	1,300
Columbia	4,114	177	208	229	643	577	123	606	568	658
Dade	173,986	2,037	1,582	2,242	1,597	1,515	2,179	1,778	1,867	
DeSoto	2,029	392	257	345	455	316	568	610	488	570
Dixie	1,519	5	17	60	116	71	81	80	79	188
Duval	50,991	1,217	1,302	1,361	1,173	401	1,544	3,214	1,996	1,862
Escambia	32,018	1,450	1,530	1,417	1,210	1,088	2,799	2,283	1,318	1,996
Flagler	1,424	92	55	54	159	120	185	197	257	224

- Running total of new installations
- Started with 1970 census
- Reported to central office by county health departments

From Record Keeping to Data Management

- Early 1990s – beginnings of database
- Late 1990s full adoption of Centrax/OSDS
 - Decentralized Visual FoxPro
 - Tracking and reporting of permitting, inspections, financial record keeping
 - Increase consistency in data
 - Statewide reporting and trends

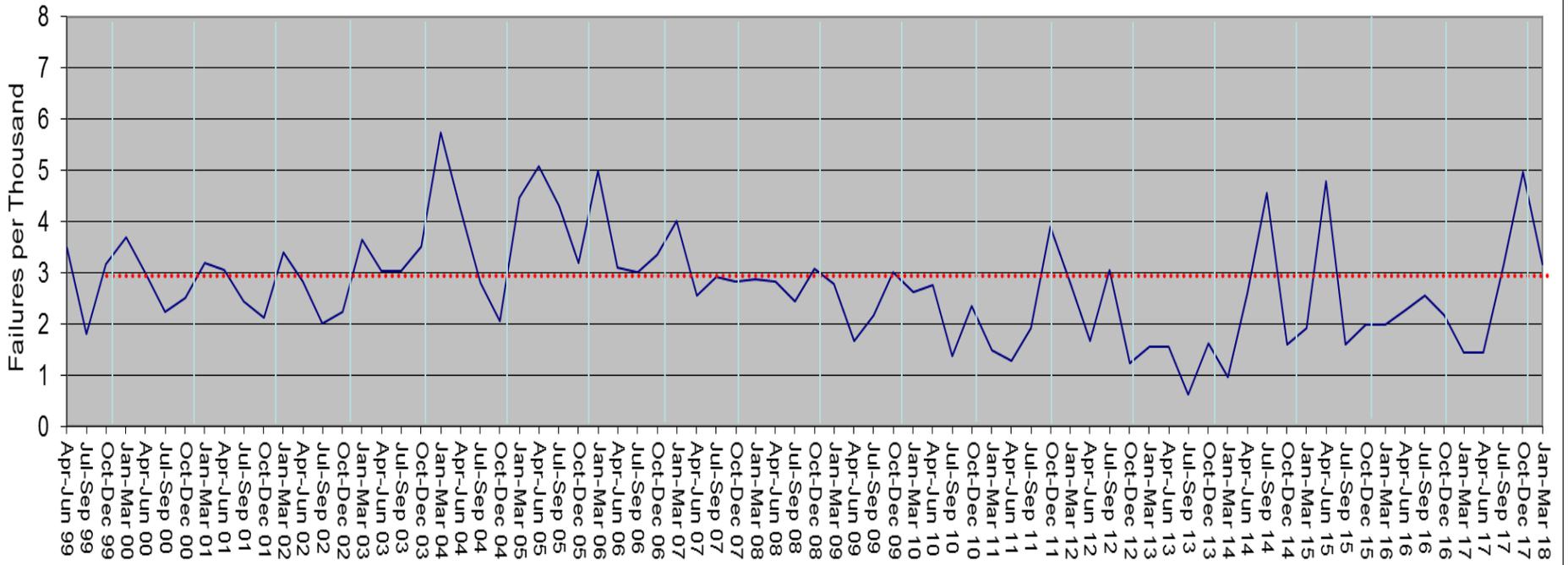
Development of Environmental Health Database (EHD)

- Time to move to a more modern, centralized system
- Attempts were made to purchase a commercial off the shelf (COTS) system
- Decision to develop in-house as a web application with SQL server backend (2005)
- System rolled out starting in early 2007

EHD Features

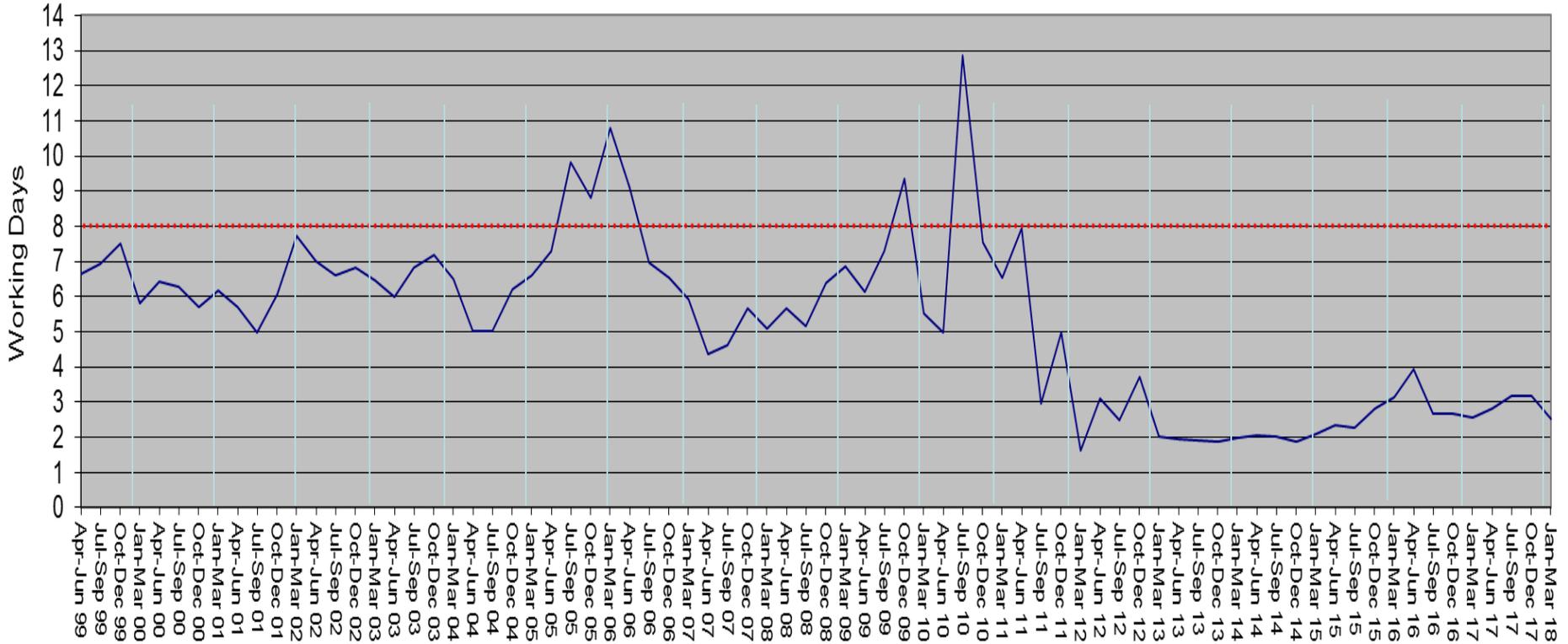
- Electronically stored public record data
- Permit and inspection data entry by CHD
- Product approval tables by central office
- Better consistency of data
- System sizing calculations
- Permit data for work load monitoring
- More detailed trend tracking

Failures per 1000 Systems Installed in Previous Two Years
Goal: <3

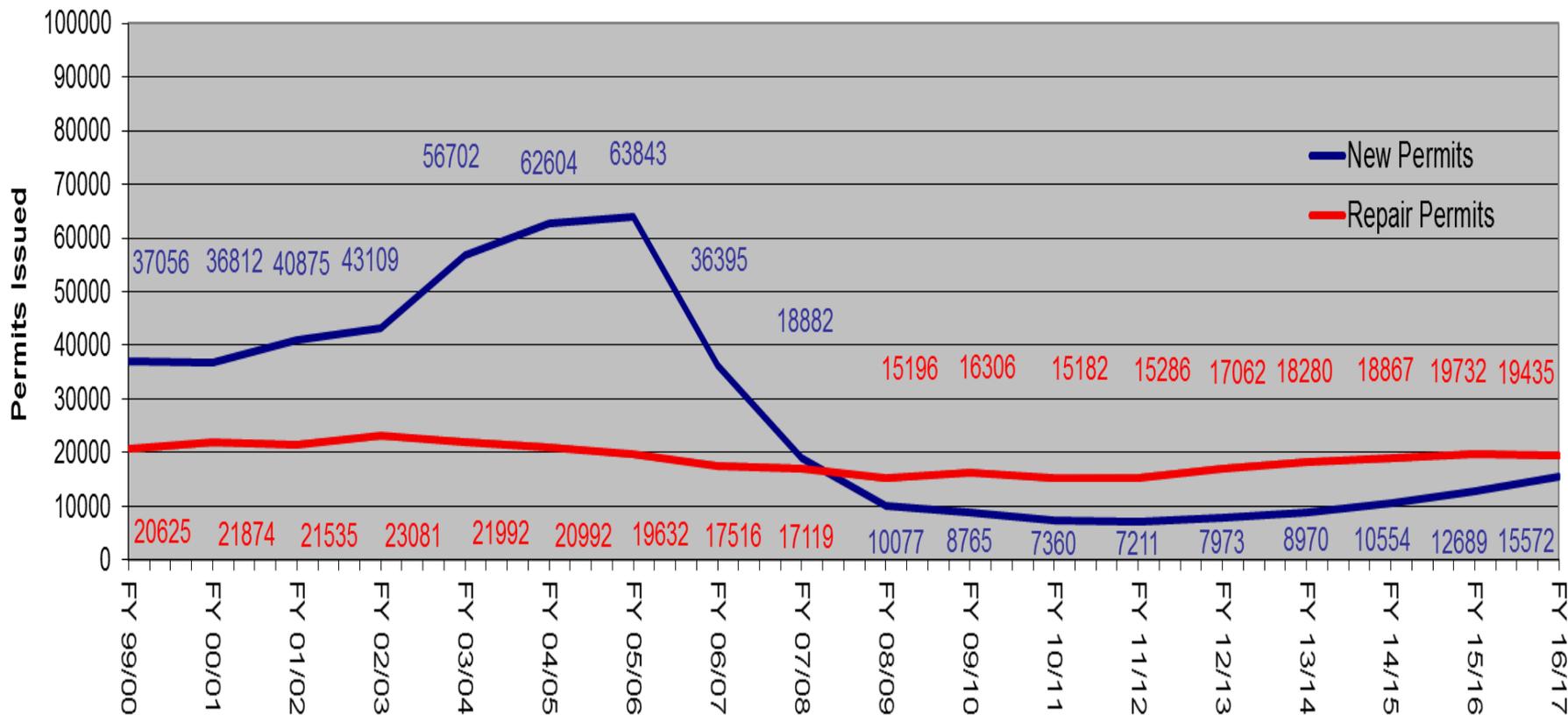


Average Days to Issue New Permits

Goal: <8



New and Repair Permits Issued in Fiscal Year



Type of OSTDS Data Being Tracked (Using Construction Permit as an Example)

1. Permit applicant's information, property address and parcel ID.
2. Permit types.
3. Establishment type (residential or commercial) and size.
4. Estimated flow, required drainfield size and unobstructed area, available unobstructed area.
5. Sewer availability and source of water supply.
6. Application date, permit issue date, permit expiration date, construction approved date, final approval date.
7. Type and size of tanks (septic tank, pump tank, ATU tank)
8. Type of drainfield (trench or bed, subsurface system or mound system).
9. Setbacks
10. Soil information (soil texture and seasonal high water table)

EHD Demo





Environmental Health Database

BUREAU OF Environmental Health

Session Time Remaining: **15:01** Home | Xueqing Gao | Alachua | Logout | 7/17/2018 | Barcode:

Need More Help? OSTDS Home | Construction | Operating | Service | Billing | Search | Entity Search | Administration | Online Activities | View Contacts

- OSTDS Home
- Construction
- Operating
- Service
- Billing
- Search
- Entity Search
- Administration
- Online Activities
- View Contacts

Welcome to the OSTDS Home Page



New Construction Permit
 For entering New, Repair Existing, Abandonment and Holding Tank applications.
[Quick Entry Page](#)



New Operating Application
 For entering ATU, IM Zone, Performance based, and Commercial applications.



New Service Application
 For entering Land, Maintenance, Portable Toilets, Septage Disposal, Tank Manufacturing, and Septage Treatment applications.



Enhanced Search
 Find applications, site evaluation, permits, inspections, and samples.



Billing
 For collecting money, managing accounts, and issuing invoices.



Reports
 Run statistical monthly, quarterly, and annual reports.



Search County 10 Fields
 For County 10 Fields Search.



Entity Search
 Search for and manage Entities.



Septic Abandonment Mass Entry
 For Septic Abandonment Mass Entry content.



OSTDS Construction – Septic Application

OSTDS Home | Construction | Operating | Service | Billing | Search | Entity Search



State of Florida
Department Of Health
Onsite Sewage Treatment and
Disposal System
Application For Construction
Permit

Document# : AP1
Date Paid : 3/2/2008
Fee Paid : 185.00
Receipt # : 17-PID-994499
OSTDS # :
Permit # : 37-S1-1

*APPLICATION FOR: Existing Repair
SUB TYPE:

Hide Applicant Details

APPLICANT:

*First Name: Kristen L
*Last Name: Reynolds
*Company Name: KGL
 Non Public Record
Create New Owner Search for Existing Owners

Hide Agent Details

AGENT:

*First Name: STEVE
*Last Name: WARMATH
*Company Name: SPERRY & ASSOC.
SPERRY & ASSOC. - WARMATH, STEVE
 Non Public Record
Create New Agent Search for Existing Agents

Hide Contact Address

TELEPHONE:

*Area Code: (850)
*Phone#: 562 - 1101
Extension:

MAILING ADDRESS:

*Address Type: Mailing
Attention:
Street #: 4495
Pre Dir.:
*Street Name: CAPITAL
Suffix: Circle
Post Dir.: NW
Unit Name:
Unit #:
City: Tallahassee
State: FL
*Zip: 32303
+4:
Reset

Hide Property Info

PROPERTY INFORMATION:

Blue fields are used in calculations

Lot: 12
Block: C
Section: 2
Township:
Range:
Subdivision:
Zoning:
Platted:
PropertyID#: 123456789
I/M or Equivalent:
*Property Size: 6.00 Acres
*Water Supply:
Water Supply Name:
Flow Type:

Private
Is sewer available as per 381.0065, FS?
Distance to Sewer: 0 Ft.

Hide Property Address

PROPERTY ADDRESS:

Non Public Record
*Address Type: Attention
Location:
Street #: Test
Pre Dir.:
*Street Name:
Suffix:
Post Dir.:
Unit Name:
Unit #:
City: Tallahassee
State: FL
*Zip: 32303
+4:
Reset
Latitude 24 to 32: 25
Longitude -79 to -88: -80
Altitude: 1234
Geo Results: 3D GPS

Directions to Property

Hide Building Details

BUILDING INFORMATION

RESIDENTIAL COMMERCIAL (Required for sizing calculation)

RESIDENTIAL BUILDINGS:

*#Of Occupants:
*#Of Bedrooms:
*Building Area(Sqft):
Add Additional Residence

Residential Buildings

#Of Occupants	#Of Bedrooms	Sq Feet	Total Flow GPD	Sel/Del
10	5	2994	500	

COMMERCIAL BUILDINGS:

Building Add Ons

Floor / Equipment Drains Others:

Comments:

Show County Fields

Status: Denied
Generate Denial Letter
*Application Date: 8/30/2006
Application Complete Date: 4/10/2007
Ready to Issue Date: 4/11/2007
Save Complete Create New Application
Create New Application at the Same Site



OSTDS Construction – Repair/Existing System Evaluation

Application Information:

Applicant's Name: Kristen L Reynolds
 Agent's Name: STEVE WARMATH
 Lot: 12 Block: C
 Subdivision: _____
 Property ID: 123456789

Existing Tank Information

<input type="text" value="1200"/> Gallons	Septic Tank	MultiChamber: <input type="checkbox"/> No <input type="checkbox"/> Yes	Legend: <input type="text" value="53-037-H10PC3"/>
	Material: <input type="text" value="Fiberglass"/>	Baffled: <input type="text" value=""/>	
<input type="text"/> Gallons		MultiChamber: <input type="text" value=""/>	Legend: <input type="text" value=""/>
	Material: <input type="text" value=""/>	Baffled: <input type="text" value=""/>	
<input type="text"/> Gallons	Grease Interceptor	MultiChamber: <input type="text" value=""/>	Legend: <input type="text" value=""/>
	Material: <input type="text" value=""/>	Baffled: <input type="text" value=""/>	
<input type="text"/> Gallons	Dosing Tank	MultiChamber: <input type="text" value=""/>	Legend: <input type="text" value=""/>
	Number of Doses: <input type="text" value=""/>	Baffled: <input type="text" value=""/>	
	Material: <input type="text" value=""/>	# Pumps: <input type="text" value=""/>	

Certification Information

I certify that the above noted tanks were pumped on by

Have the Volumes specified as Determined by

are free of observable defects or leaks, and have a installed.

Licensed Contractor by

Existing Drainfield Information

Square Feet Primary Drainfield System No. of Trenches:

Dimensions: x

Square Feet System No. of Trenches:

Dimensions: x

Type of System:

Configuration:

Design:

Elevation of Bottom of Drainfield in relation to existing grade:
 This is a required field, the permit will not calculate correctly without it.
 Inches

System Failure and Repair Information

Is The Tank Structurally Sound: Yes No

System Installation Date Type of Waste:

GPD Estimated Sewage based on:

Site Conditions:

- Drainage Structures
- Patio / Deck
- Sloping Property
- Other

Nature of Failure:

- Hydraulic Overload
- Maintenance
- Soils
- System Damage



STATE OF FLORIDA
 DEPARTMENT OF HEALTH
 ONSITE SEWAGE TREATMENT AND DISPOSAL SYSTEM
 EXISTING SYSTEM AND SYSTEM REPAIR EVALUATION

PERMIT # _____

APPLICANT: _____
 CONTRACTOR / AGENT: _____
 LOT: _____ BLOCK: _____ SUBDIV: _____ ID#: _____

TO BE COMPLETED BY FLORIDA REGISTERED ENGINEER, DEPARTMENT EMPLOYEE, SEPTIC TANK CONTRACTOR OR OTHER CERTIFIED PERSON. SIGN AND SEAL ALL SUBMITTED DOCUMENTS. COMPLETE ALL APPLICABLE ITEMS. COMPLETE TANK CERTIFICATION BELOW OR NOTE IN REMARKS WHY THE TANKS CANNOT BE CERTIFIED.

EXISTING TANK INFORMATION

<input type="checkbox"/> GALLONS SEPTIC TANK/GPD ATU	LEGEND: _____	MATERIAL: _____	BAFFLED: [Y / N]
<input type="checkbox"/> GALLONS SEPTIC TANK/GPD ATU	LEGEND: _____	MATERIAL: _____	BAFFLED: [Y / N]
<input type="checkbox"/> GALLONS GREASE INTERCEPTOR	LEGEND: _____	MATERIAL: _____	
<input type="checkbox"/> GALLONS DOSING TANK	LEGEND: _____	MATERIAL: _____	# PUMPS: [_____]

I CERTIFY THAT THE LISTED TANKS WERE PUMPED ON ____ / ____ / ____ BY _____, HAVE THE VOLUMES SPECIFIED AS DETERMINED BY [DIMENSIONS / FILLING / LEGEND], ARE FREE OF OBSERVABLE DEFECTS OR LEAKS, AND HAVE A [SOLIDS DEFLECTION DEVICE / OUTLET FILTER DEVICE] INSTALLED.

SIGNATURE OF LICENSED CONTRACTOR BUSINESS NAME DATE

EXISTING DRAINFIELD INFORMATION

SQUARE FEET PRIMARY DRAINFIELD SYSTEM NO. OF TRENCHES [_____] DIMENSIONS: _____ X _____

SQUARE FEET _____ SYSTEM NO. OF TRENCHES [_____] DIMENSIONS: _____ X _____

TYPE OF SYSTEM: [_____] STANDARD [_____] FILLED [_____] MOUND [_____]

CONFIGURATION: [_____] TRENCH [_____] BED [_____]

DESIGN: [_____] HEADER [_____] D-BOX [_____] GRAVITY SYSTEM [_____] DOSED SYSTEM

ELEVATION OF BOTTOM OF DRAINFIELD IN RELATION TO EXISTING GRADE _____ INCHES [ABOVE / BELOW]

SYSTEM FAILURE AND REPAIR INFORMATION

[_____] SYSTEM INSTALLATION DATE TYPE OF WASTE [_____] DOMESTIC [_____] COMMERCIAL

[_____] GPD ESTIMATED SEWAGE FLOW BASED ON [_____] METERED WATER [_____] TABLE 1, 64E-6, FAC

SITE CONDITIONS: [_____] DRAINAGE STRUCTURES [_____] POOL [_____] PATIO / DECK [_____] PARKING

[_____] SLOPING PROPERTY [_____]

NATURE OF FAILURE: [_____] HYDRAULIC OVERLOAD [_____] SOILS [_____] MAINTENANCE [_____] SYSTEM DAMAGE

[_____] DRAINAGE / RUN OFF [_____] ROOTS [_____] WATER TABLE [_____]

FAILURE SYMPTOM: [_____] SEWAGE ON GROUND [_____] TANK [_____] D BOX/HEADER [_____] DRAINFIELD

[_____] PLUMBING BACKUP [_____]

REMARKS/ADDITIONAL CRITERIA _____

SUBMITTED BY: _____ TITLE/LICENSE _____ DATE: _____
 DH 4015, 08/09 (Obsoletes previous editions which may not be used)
 Incorporated 64E-6.001, FAC

OSTDS Construction Site Evaluation

Property Information

Blue fields are used in calculations.

Property Size Conforms to Site Plan*: Yes No

	Calculated	Actual		
Net Usable Area Available*:	261360	10890.00	Square Feet	6.00 Acres
Total Estimated Sewage Flow*:	500		Gallons per day	
Authorized Sewage Flow*:	375	375.00	Gallons per day	Private
Unobstructed Area Available*:		5000.00	SQFT	
Unobstructed Area Required*:	3000.00	28286.00	SQFT	

Benchmark

Benchmark/Reference Point Location:

Elevation of Proposed System Site is:

Setbacks

Surface Water: FT Ditches/Swales: FT

Public Wells (> 2000 GPD): FT Normally Wet?:

Private Wells: FT Public Well (<=2000 GPD): FT

Building Foundations: FT Non-Potable: FT

Potable Water Lines: FT Property Lines: FT

Flooding

Blue fields are used in calculations.

Site Subject to Frequent Flooding*:

10 Year Flooding*:

10 Year Flood Evaluation for Site: FT

Site Elevation: FT

Go To Permit Deny

Recalculate |< < > >|

Print Cancel

Use the Calculated Values

Application Information:

Applicant's Name:

Agent's Name:

Lot: Block:

Subdivision:

Property ID:

Application Document Nbr:

Additional Information

Blue fields are used in calculations.

Observed Water Table: Inches: Existing Grade

Type:

Estimated Wet Season Water Table Elevation*: Inches Existing Grade

High Water Table Vegetation:

Mottling: Depth: Inches

Soil Replacement Type:

Once the soil replacement is finished or if there was no soil replacement what is the depth to the most shallow layer of severely limited soil?

Soil Texture for System Sizing:

Loading Rate for System Sizing: Depth of Excavation: Inches

Drainfield Configuration: (If Other Specify)

Drainfield Type:

Remarks/Additional Criteria:

Site Evaluated By:

Date*:

Application Completed Date:

Go To Permit Deny

Recalculate |< < > >|

Print Cancel

Use the Calculated Values



OSTDS Construction Permit



State of Florida
Department of Health
Onsite Sewage Treatment and Disposal System
Construction Permit

Permit #: 37-S1-1
Date Paid: _____
Permit Fee Paid: _____
Receipt #: _____
Document #: PR1

Construction Permit For: OSTDS Existing Repair
Applicant: Kristen L Reynolds
Property Address: Test Tallahassee, FL 32301
Lot: 12 Block: C Subdivision: _____
Property ID #: 123456789 [Section, Township, Range, Parcel Number]
[Or Tax ID Number]

System must be constructed in accordance with specifications and standards of section 381.0065, F.S., and chapter 64E-6, F.A.C. Department approval of system does not guarantee satisfactory performance for any specific period of time. Any change in material facts, which served as a basis for issuance of this permit, require the applicant to modify the permit application. Such modifications may result in this permit being made NULL and VOID. Issuance of this permit does not exempt the applicant from compliance with other federal, state, or local permitting required for development of this property.

System Design and Specifications

T [1200] (1200) Gallons / GPD [Septic] Capacity
A [0] (0) Gallons / GPD Capacity
N [0] (0) Gallons Grease Interceptor Capacity [Maximum Capacity Single Tank: 1250 Gallons]
K [375.00] Gallons Dosing Tank Capacity [250.00] Gallons @ [2] Doses Per 24 Hrs # Pumps [1]
(375.00) (250.00) (2.00) (1.00)

D [2000] (2000) Square Feet System
R [0] (0) Square Feet System

A Type System: Mound [Mound]
I Configuration: Bed
N

F Location Of Benchmark: _____

I Elevation of Proposed System Site [6.00] Inches Below Benchmark/Reference Point
E Bottom of Drainfield to be [0.00] (0.00) Inches Above or Below Benchmark/Reference Point

L
D Fill Required: [24.0] (24.0) Inches Excavation Required: [0.0] Inches

O Orenco AdvanTex AX20x;Bio-Microbics RetroFAST .250 | Multiple beds required not to exceed 1500 SF per bed.
T Each pump serves 1/2 of required absorption area pumps to dose alternately.
H Pumps must be certified as suitable for distributing sewage effluent.
E PE Design Required.

Specifications By: Builders, Homestyle (Registered Septic Tank Contractor)
Approved By: _____ Leon CHD
Date Issued: 11/17/2006 Ready To Issue Date: 4/11/2007 Expiration Date: 5/17/2008



STATE OF FLORIDA
DEPARTMENT OF HEALTH
ONSITE SEWAGE TREATMENT AND DISPOSAL
SYSTEM
CONSTRUCTION PERMIT

PERMIT #: 37-S1-1
APPLICATION #: AP1
DATE PAID: _____
FEE PAID: _____
RECEIPT #: _____
DOCUMENT #: PR1

CONSTRUCTION PERMIT FOR: OSTDS Existing Repair
APPLICANT: Kristen L Reynolds (KGL)
PROPERTY ADDRESS: Test Tallahassee, FL 32301
LOT: 12 BLOCK: C SUBDIVISION: _____
PROPERTY ID #: 123456789 [SECTION, TOWNSHIP, RANGE, PARCEL NUMBER]
[OR TAX ID NUMBER]

SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH SPECIFICATIONS AND STANDARDS OF SECTION 381.0065, F.S., AND CHAPTER 64E-6, F.A.C. DEPARTMENT APPROVAL OF SYSTEM DOES NOT GUARANTEE SATISFACTORY PERFORMANCE FOR ANY SPECIFIC PERIOD OF TIME. ANY CHANGE IN MATERIAL FACTS, WHICH SERVED AS A BASIS FOR ISSUANCE OF THIS PERMIT, REQUIRE THE APPLICANT TO MODIFY THE PERMIT APPLICATION. SUCH MODIFICATIONS MAY RESULT IN THIS PERMIT BEING MADE NULL AND VOID. ISSUANCE OF THIS PERMIT DOES NOT EXEMPT THE APPLICANT FROM COMPLIANCE WITH OTHER FEDERAL, STATE, OR LOCAL PERMITTING REQUIRED FOR DEVELOPMENT OF THIS PROPERTY.

SYSTEM DESIGN AND SPECIFICATIONS

T [1,200] GALLONS / GPD [Septic] CAPACITY
A [0] GALLONS / GPD CAPACITY
N [0] GALLONS GREASE INTERCEPTOR CAPACITY [MAXIMUM CAPACITY SINGLE TANK:1250 GALLONS]
K [375] GALLONS DOSING TANK CAPACITY [250.00] GALLONS @ [2] DOSES PER 24 HRS #Pumps [1]

D [2,000] SQUARE FEET SYSTEM
R [0] SQUARE FEET SYSTEM

A TYPE SYSTEM: [] STANDARD [] FILLED [x] MOUND []
I CONFIGURATION: [] TRENCH [x] BED []

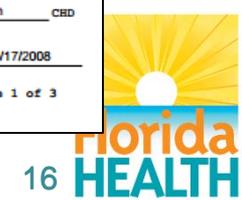
N
F LOCATION OF BENCHMARK:
I ELEVATION OF PROPOSED SYSTEM SITE [6.00] [INCHES] FT [] ABOVE [x] BELOW BENCHMARK/REFERENCE POINT
E BOTTOM OF DRAINFIELD TO BE [0.00] [INCHES] FT [] ABOVE [x] BELOW BENCHMARK/REFERENCE POINT
L
D FILL REQUIRED: [24.00] INCHES EXCAVATION REQUIRED: [0.00] INCHES

O Orenco AdvanTex AX20x;Bio-Microbics RetroFAST .250 | Multiple beds required not to exceed 1500 SF per bed.
T Each pump serves 1/2 of required absorption area pumps to dose alternately.
H Pumps must be certified as suitable for distributing sewage effluent.
E PE Design Required.

R The licensed contractor installing the system is responsible for installing the minimum category of tank in accordance with s. 64E-6.013(3)(f), FAC. Note: Florida Statute Tables do not encompass a commercial Septic Tank with a flow of 8950 GPD.

SPECIFICATIONS BY: Homestyle Builders TITLE: Registered Septic Tank Contractor

APPROVED BY: _____ TITLE: _____ Leon CHD
DATE ISSUED: 11/17/2006 EXPIRATION DATE: 05/17/2008
DR 4016, 08/09 (Obsoletes all previous editions which may not be used)
Incorporated: 64E-6.003, FAC Page 1 of 3



OSTDS Construction Final Inspection

Tank Installation In Compliance Existing Tank Used

In Compliance [01] Tank Size [1] [2]

In Compliance [02] Tank Material [1] [2]

In Compliance [03] Outlet Device

Unobserved [04] Multi-Chambered

In Compliance [05] Outlet Filter

In Compliance [06] Legend [1] 53-037-H10PC3 () [2]

In Compliance [07] Watertight

In Compliance [08] Level

In Compliance [09] Depth to Lid

Drainfield Installation Existing Drainfield Used

In Compliance [10] Area [1] 460 [2] 250 SQFT

Out of Compliance [11] Distribution

In Compliance [12] Number of Drainlines [1] [2]

In Compliance [13] Drainline Separation

In Compliance [14] Drainline Slope

In Compliance [15] Depth of Cover

In Compliance [16] Elevation 24 BM Below

In Compliance [17] System Location

In Compliance [18] Dosing Pumps

In Compliance [19] Aggregate Size

In Compliance [20] Aggregate Excessive Fines

In Compliance [21] Aggregate Depth

Fill / Excavation Material In Compliance

In Compliance [22] Fill Amount

In Compliance [23] Fill Texture

In Compliance [24] Excavation Depth

In Compliance [25] Area Replaced

In Compliance [26] Replacement Material

Setbacks In Compliance

In Compliance [27] Surface Water FT

In Compliance [28] Ditches FT

In Compliance [29] Private Wells FT

In Compliance [30] Public Wells 100+ FT

Unobserved [31] Irrigation Wells FT

In Compliance [32] Potable Water Lines FT

In Compliance [33] Building Foundation FT

In Compliance [34] Property Lines FT

In Compliance [35] Other FT

Filled / Mound System In Compliance

In Compliance [36] Drainfield Cover

In Compliance [37] Shoulders

In Compliance [38] Slopes

In Compliance [39] Stabilization 2/18/2008

Additional Information In Compliance

In Compliance [40] Unobstructed Area

In Compliance [41] Stormwater Runoff

Not Applicable [42] Alarms

Not Applicable [43] Maintenance Agreement

In Compliance [44] Building Area

In Compliance [45] Location Conforms with Site Plan

In Compliance [46] Final Site Grading

In Compliance [47] Contractor

In Compliance [48] Type of Drainfield

Abandonment In Compliance

In Compliance [49] Tank Pumped 2/18/2008

In Compliance [50] Tank Crushed & Filled 2/18/2008

Explanation of Violations/Remarks:

Violation Number	Default Answers	Violation Comments
[11] Distribution	<input type="text"/>	<input type="text"/>

Select Signatory Name: Add Signatory

General Comments:

The system is sized for 5 bedrooms with a maximum occupancy of 10 persons (2 per bedroom), for a total estimated flow of 500 gpd.

Construction Disapproved Franklin

Davis, Katherine (Environmental Supervisor II)

Construction Approval Date: 2/18/2008

Final System Disapproved Franklin

Davis, Katherine (Environmental Supervisor II)

Final System Approval Date: 2/18/2008

OSTDS Operating – Entity Information

- OSTDS Operating
- 19-Q1-1769823, 06/13/2017
- Manage Actions/Cases
- Manage Entity
- Manage Bills
- Manage Complaints
- Manage Inspections
- Manage Activities
- Manage Docs
- Bacteriological Samples
- Chemical Samples
- Surveys (0)

Entity Manager

Addresses/Phone Details Contacts Sample Details

Save

Permit Number 19-Q1-1769823

Entity Information
Permit Renewal Flags

Entity Information

Program Name
OSTDS - Operating

Subtype
Aerobic

Non Public record

Company or Facility Name
GLHJ, LLC

Prefix	First Name	Middle Name	Last Name	Suffix

***State Status**
Active

Current Application Date
6/13/2017

Permit Issue Date
6/13/2017

Entity Owner
GLHJ, LLC

Entity Address
916 W Bayshore Drive
Saint George Island, FL 32328

Entity Work Phone
1 - (555) 555-5555

Mail To
Owner: GLHJ, LLC (M) (Post Office Box 33 , Apalachicola, 32320)

Notes

Note Details	Date
	7/31/2018

Add Note Cancel

Inspection

Last Inspection Date _____ **Next Inspection Date** 6/13/2017 Update Date

of Inspections This Year 0 **Frequency of Inspections** Annual Manage Inspections

Sample Information

Microbacteriological Sample Frequency _____

Billing Information

Last Bill Date 06/13/2017 **Payment Amount** _____ **Outstanding Balance** 0 Manage Bills

Billing Units

State Billing Units

County Specific Billing Units

Type of Item	Number of Units	Add New

Billing Scheme

Current Scheme STATE Operating - ATU

Entity Counties and Sites

County Franklin ***Site** Franklin (Legacy Site Code: 1)

***Responsible DOH Employee** Addison, Charles (Environmental Health Specialist)

Additional Counties

County Name _____ Add County

Save

[Top of the Page](#)

OSTDS Operating Details

Program Details

Name of Facility GLHJ, LLC
Location Address 916 W Bayshore Drive , Saint George Island FL 32328
Status Active **Permit #** 19-Q1-1769823
Program Name OSTDS - Operating **Subtype** Aerobic

Save RETURN

App Approvals Business Survey Print Application

Import from OSTDS Construction Record

AP Search

Aerobic Commercial Industrial / Manufacturing Performance Based

Current Application Date: 06/13/2017

Category	Type	Detail Info	Additional Info
Document#	AP	1250119	
Operating Application	Application Type *	Renewal	
	Current Application Date *	6/13/2017	
Existing System Information	Septic Tanks/Aerobic Unit	500 Gallons	
	Grease Traps	Gallons	
	Dosing Tank	Gallons	
	Drainfield size	282 Sq. Ft.	
	Drainfield Installed In a	Mound System	
	Drainfield Layout	Trenches	
	OnSite Well		
	System Setback to wells	Ft	
	Lot Size	0.33	
	Sq.Ft or Acres		

	Estimated sewage flow into system	300 Gallons/Day
	Based On	
	Building type	Residential
	Number of businesses or dwellings	1
	Additional Comments	The system is sized for 3 bedrooms with a maximum occupancy of 6 persons (2 per bedroom), for a total estimated flow of 300 gpd. The licensed contractor installing the system is
Aerobic Treatment Unit	Date of final approval:	06/13/2017
	Aerobic treatment unit still under the warranty?	Yes
	Is there an active maintenance agreement?	Yes
	Service agreement expiration date	06/09/2019
	Required Annual ME Maintenance Visits	2
1 - Treatment Unit Manufacturer and Model	Name of System *	Consolidated Nayadic M-6A
	Above 1500 Gallon Capacity	
Maintenance Company	Company Name *	Collins Construction of SGI Inc. 19-Q1-00747 Fran
Approvals	Conditions of Operation	
Attestation	Signature	
	Date	

Save RETURN

App Approvals Business Survey Print Application

Top of Page

OSTDS Service Details

Service Application

Permit Number : **19-Q1-00747**

* Service Application For

Renewal

* Application Date

10/21/2014

- Septage Disposal Services
- Temporary System Services
- Septage Treatment Disposal Facilities
- Septic Tank Manufacturing Facilities
- Maintenance
- Land Site (Agricultural Use Plan)

Approvals Collect Money

Save

[-] General Information

Business Information

* Business Name: Collins Construction of SGI Inc. * Business Phone #: (850) 670-5790 Extension:

Certificate Of Authorization #: SA0900400 Contractor Registration #: SR0981316 Plumbing License #:

Business Location Address

* Address Type: Location Attention: Primary Address:

Street #: 96 Pre Dir.: * Street Name: Otterslide Suffix: Road Post Dir.:

Unit Name: Unit #: City: Eastpoint State: FL * Zip: 32328 +4: Reset

* The Owner is required

Owner Information

First Name: John Last Name: Collins Change Owner

Company Name: Update

Mailing Address: P.O. Box 1007, Eastpoint FL 32328

Home Phone: #850 670-5790 Ext:

Email:

Create New Owner

NOTE: If Owner doesn't exist create new Owner

Counties of Operation

Add County

[-] Septage Disposal Services

Vehicles for Disposal Service

* VIN: * Capacity: Inspected By: Inspected Date:

Add

Vehicle VIN	Capacity	Inspected By	Inspected Date	SEL	DEL
2FZNRJBB1YAB63276	4000		12/3/2007	<input type="text"/>	<input checked="" type="text"/>

Equipment

List equipment used in the operation of this business necessary for the sanitary pumping, transport, and disposal of septage

4000 gallon truck capacity

Disposal Methods

Waste Water Treatment Plant: Add New

Name	Address	Approved	DEL
City of Port St. Joe	PO Box 278 Port Saint Joe, FL 32457	Yes	<input checked="" type="text"/>

Land Site (Agricultural): Add

Sanitary Landfill: Add New

[-] Temporary System Services

Vehicles for Temporary Service

* VIN: * Capacity: Inspected By: Inspected Date:

Add

Note : A Backup Service is required if the business has 1 truck only

Backup Services

Is there a backup service available?

Select Backup Service: Add

Disposal Methods

Land Application Site (Agricultural): Add

Waste Water Treatment Plant: Add New

Sanitary Landfill: Add New

Save

Maintenance Entity Reporting Systems

- Aerobic treatment units and performance-based treatment systems require operating permit, maintenance contract and maintenance entity inspections.
- Challenge of tracking reports by maintenance entities (outside of DOH)
 - 3rd party web-based reporting service (Carmody), paid for by 319 grant administered by Florida Department of Environmental Protection (~2004-2016), by CHD, or by maintenance entity.
 - Maintenance activity reporting system (MARS), developed in-house as complement to EHD (2018)

MARS Data Entry

Environmental Health Database
BUREAU OF Environmental Health

Session Time Remaining: 17:55 | Home | Kara Loewe | Franklin | Logout | 7/31/2018 | Barcode: []

Need More Help? | OSTDS Home | Construction | Operating | Service | Billing | Search | Entity Search | Administration | Online Activiti

Maintenance Activities for OSTDS Operating Permit: 19-Q1-00011

Permit	Service Name	Inspected Activi
19-Q1-00747	Collins Construction of SGI Inc.	7/19/2018 Maintenance Inspection

Enter Activity | Refresh Activities

- OSTDS Operating
 - 19-Q1-00011, 02/26/2013
 - Manage Actions/Cases
 - Manage Entity
 - Manage Bills
 - Manage Complaints
 - Manage Inspections
 - Manage Activities
 - Manage Docs
 - Bacteriological Samples
 - Chemical Samples
 - Surveys (0)

EHD Create Activity - MARS - Internet Explorer

Hello Kara.Loewe@FLHealth.gov!

EHD Create Activity

Facility 19-Q1-00011 [Show Facility]

Srv Permit: Collins Construction of SGI Inc. - 19-Q1-00747 [Search]

Date: 07/19/2018

Reason: Maintenance Inspection

Status: Operating within Specification

Samples Taken: Count: 2

Statement: Homeowner wants copy of report

Documents (0) [Show]

Save | Reset | Close

MARS Data Entry (cont.)

The screenshot displays the MARS web application interface. The top navigation bar includes 'Home', 'About', 'Contact', 'Permit', and 'Admin'. The main content area is divided into two overlapping windows:

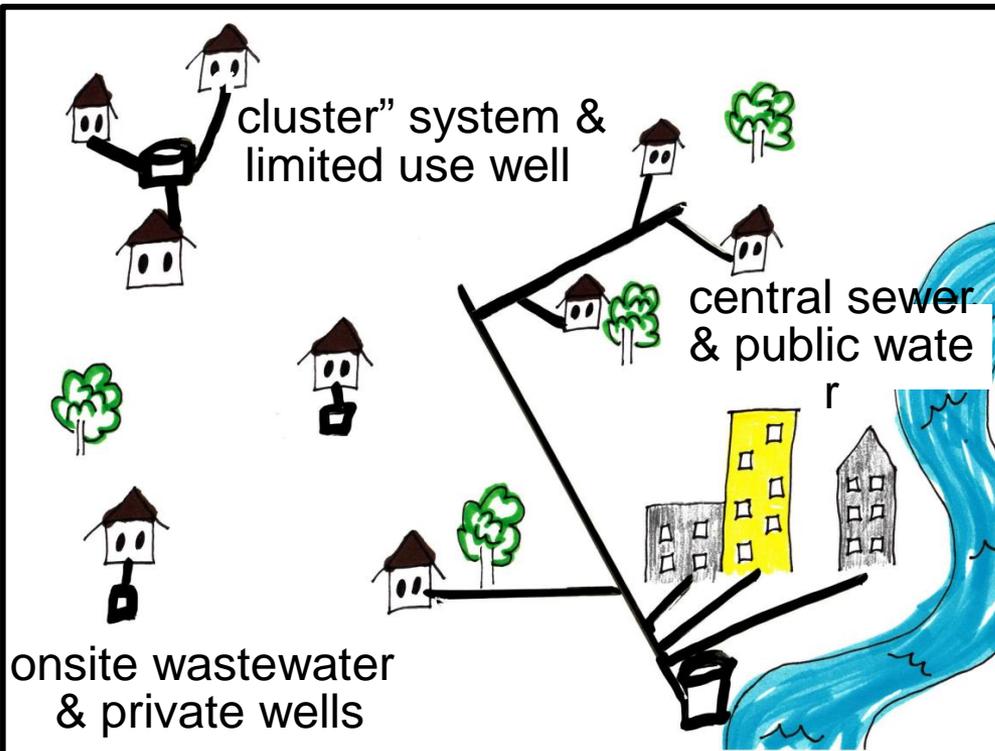
- Create Agreement:** This form is used to create a new agreement. It includes fields for 'Operating Permit' (05-QV-01257 - Nal Oum), 'Service Permit' (01-QG-00020 - Florida Septic Inc.), 'Kind' (Contract), 'Start' (03/29/2018), and 'End' (03/29/2019). A 'Comments' field contains the text 'New agreement.' Below the form is a 'Documents (1)' section showing a file named 'reading.pdf' with a size of 501189 bytes, uploaded on 03/29/2018 at 02:55:03 PM.
- Create Activity:** This form is used to create a new activity. It includes fields for 'Date' (03/29/2018), 'Reason' (Service Call), 'Status' (Operating within Specification), 'Samples Taken' (checked), and 'Count' (3). A 'Statement' field contains the text 'Everything looked good. Alarm working.' Below the form is a 'Documents (1)' section.

The background shows a 'Permit Search' results table with columns for Permit ID, Type, AA, and UnS. The table contains one entry: 01-QG-00020, Servicing, 3, -2. The bottom of the screen shows a Windows taskbar with the system clock displaying 3:05 PM on 3/29/2018.

Mapping OSTDS and Well Data Florida Water Management Inventory (FLWMI)

Background

- Wastewater and drinking water infrastructure is variable
- Data fragmented between state, local, & private entities



Project Goal

Develop a centralized data repository with drinking water source and wastewater treatment method for every built property in Florida

Approach: Classify Every Parcel

Built Status

- Built
- Not Built
- Water
- Right-of-Way
- Unknown

Drinking Water Source

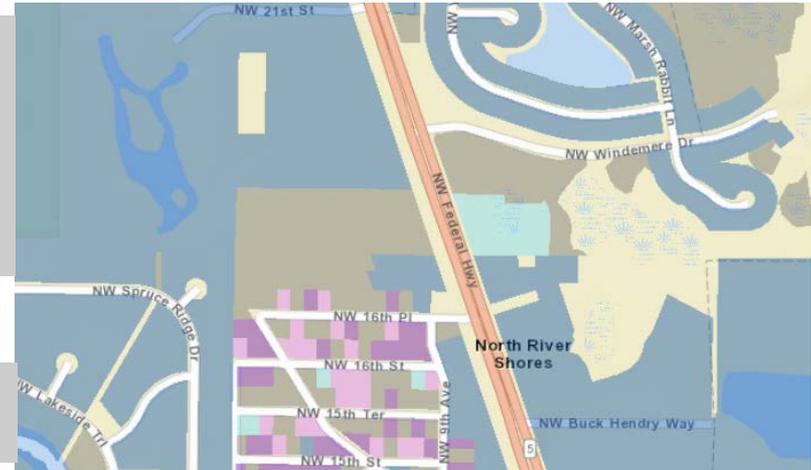
- Public Water
- Private Well

Wastewater Treatment Method

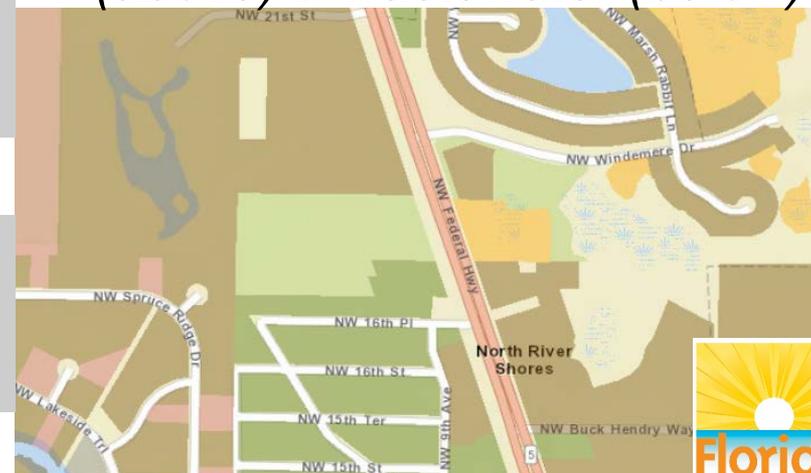
- Central Sewer
- Onsite Wastewater

Certainty Qualifiers

- Known
- Likely
- Somewhat Likely

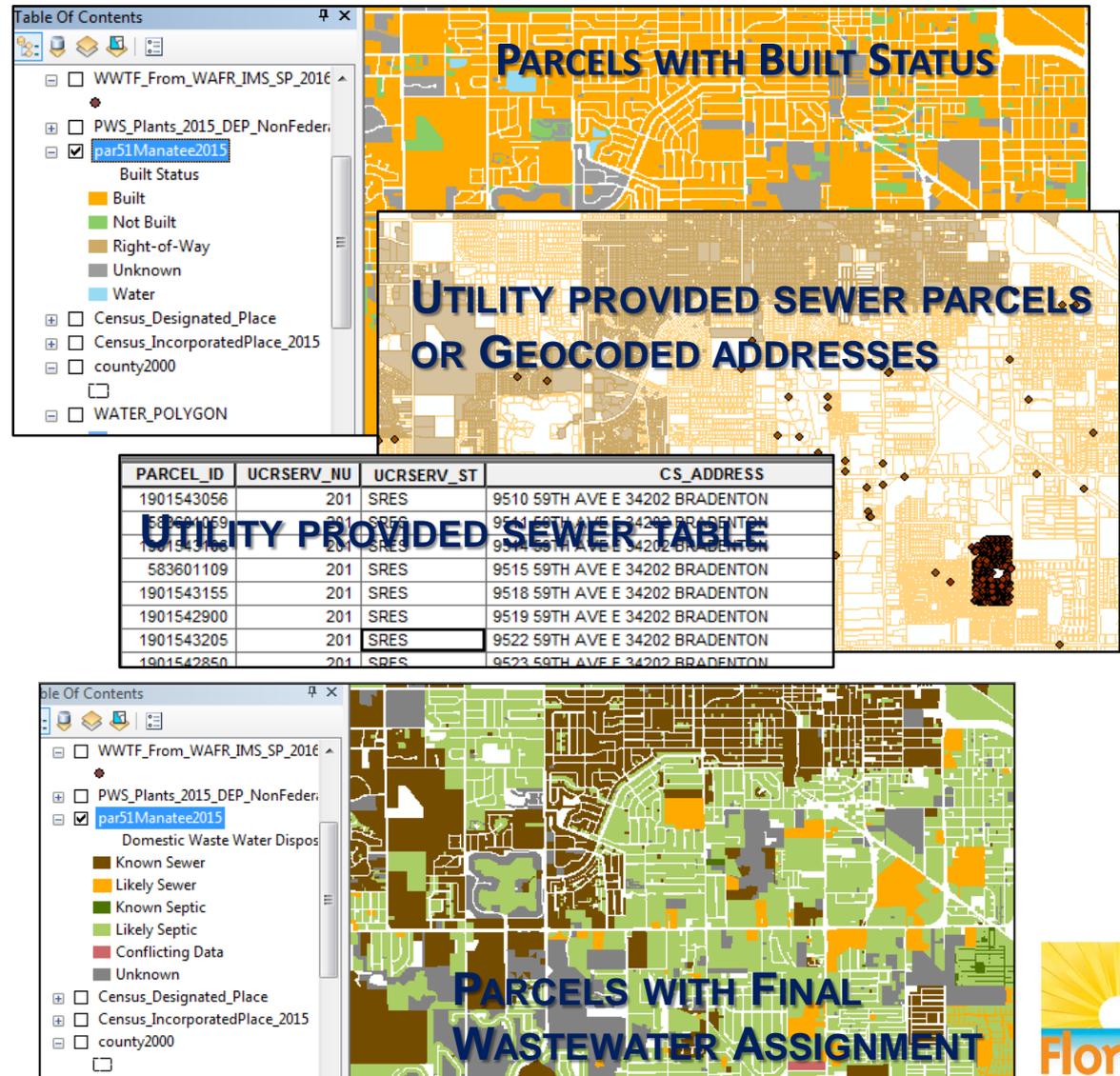


Data excerpt of drinking water (above) & wastewater (below)



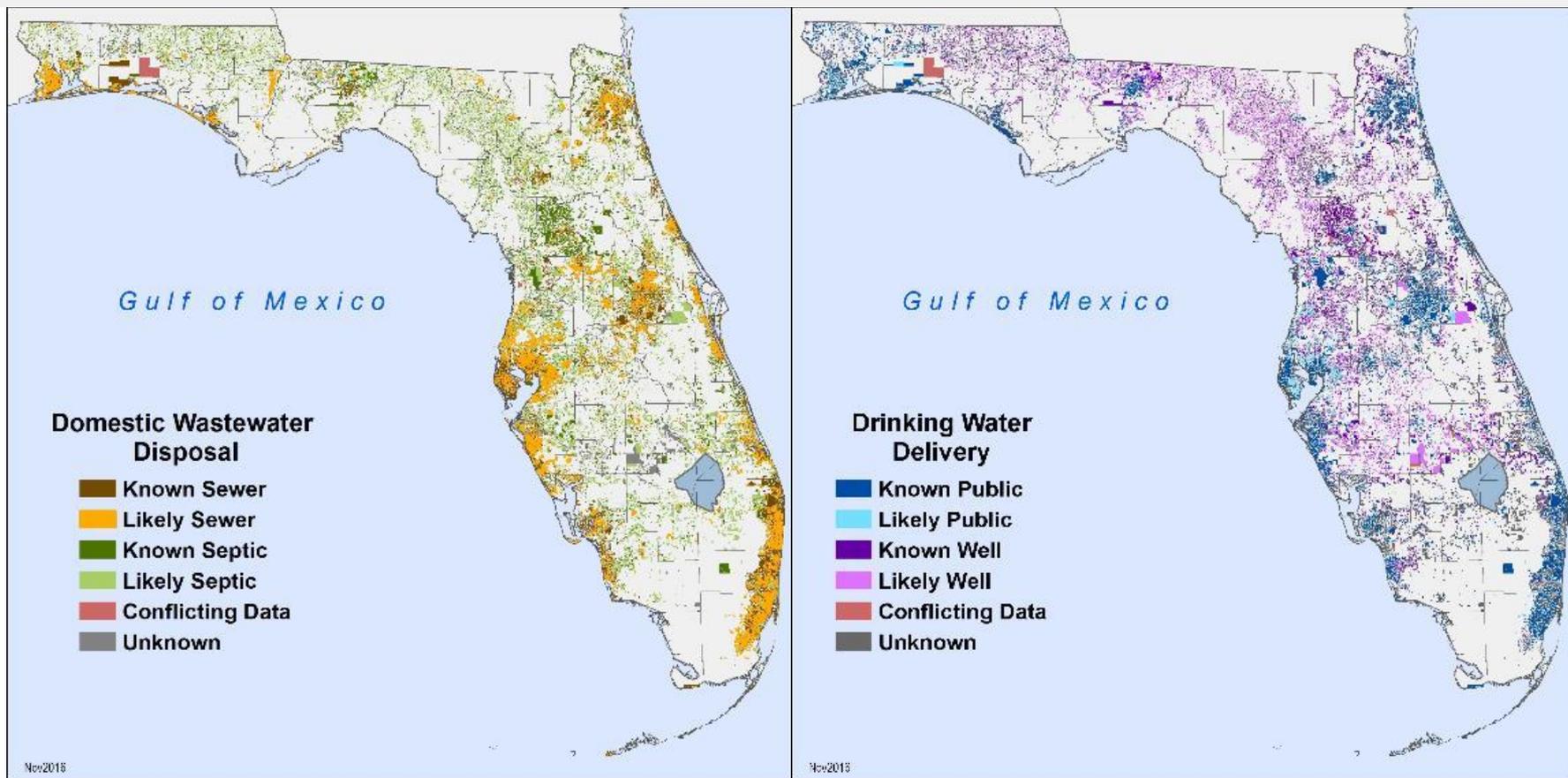
GIS Process Overview

- Compile parcel data and assign built status
- Compile drinking water & wastewater data from various sources
- Assign drinking water and wastewater values to parcels
- Prepare GIS maps and summary reports



Florida Water Management Inventory

Publicly Available Statewide Parcel-Level GIS Data



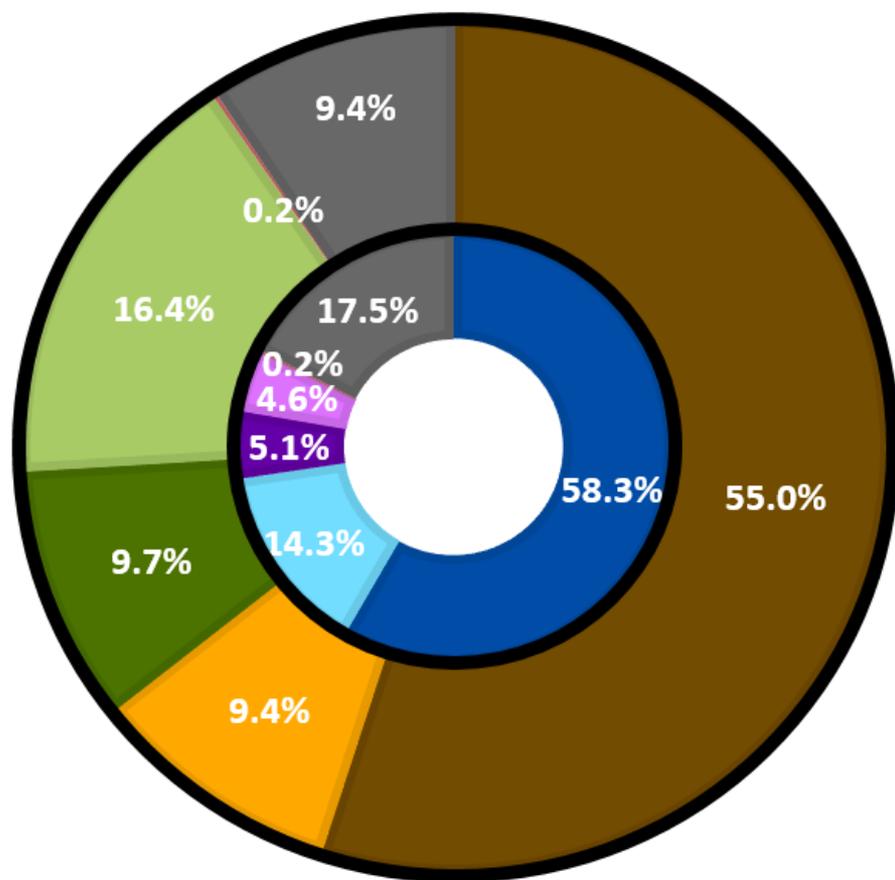
Wastewater Disposal

www.floridahealth.gov/flwmi

Drinking Water Source

Florida Water & Wastewater Breakdown as of June 2018

9.7 million total parcels with 7.7 million built parcels

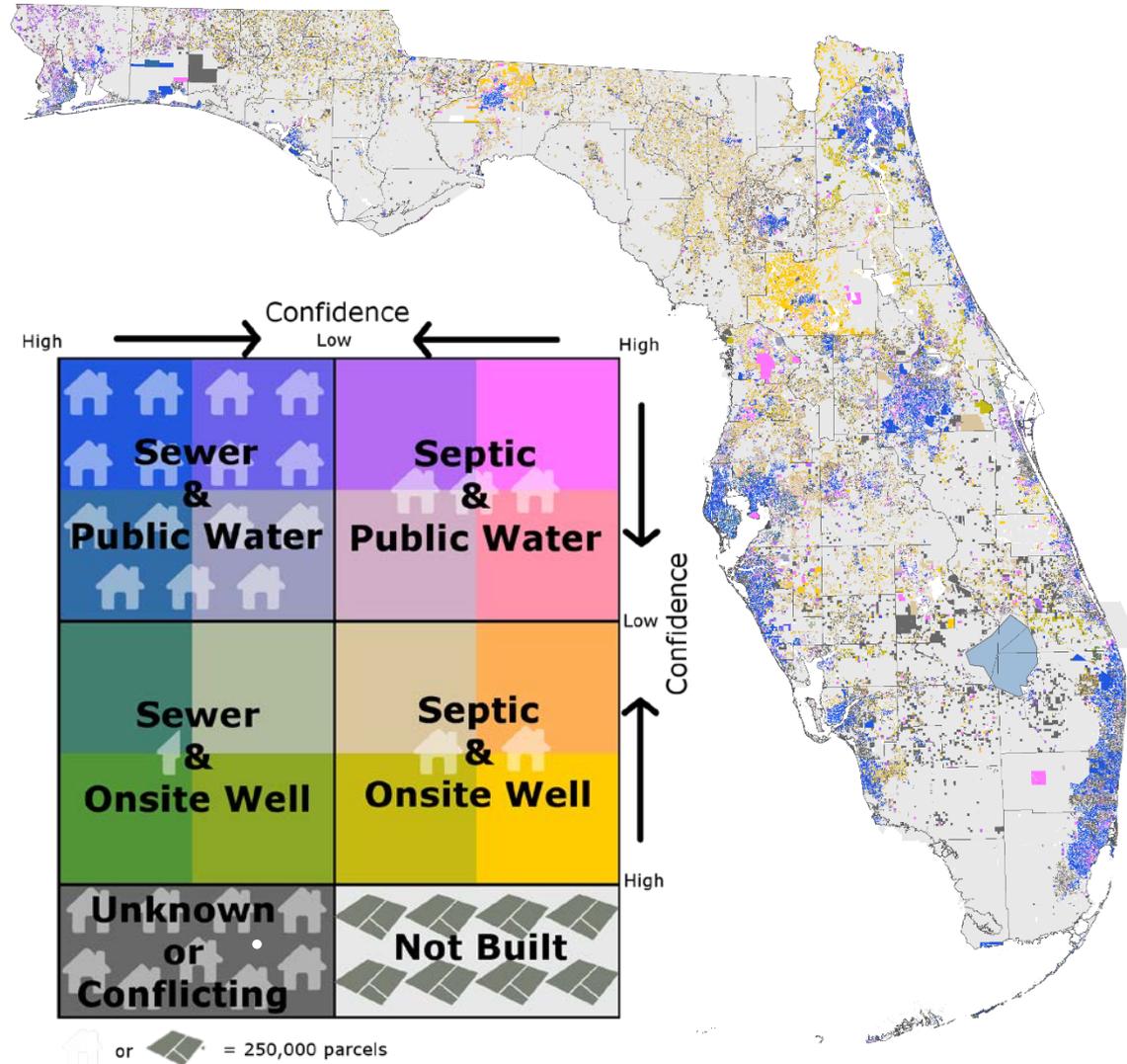


- % Known Sewer
- % Known Septic
- % Undetermined Wastewater
- % Estimated Sewer
- % Estimated Septic
- % Unknown Wastewater

- % Known Public
- % Known Well
- % Undetermined Drinking Water
- % Estimated Public
- % Estimated Well
- % Unknown Drinking Water

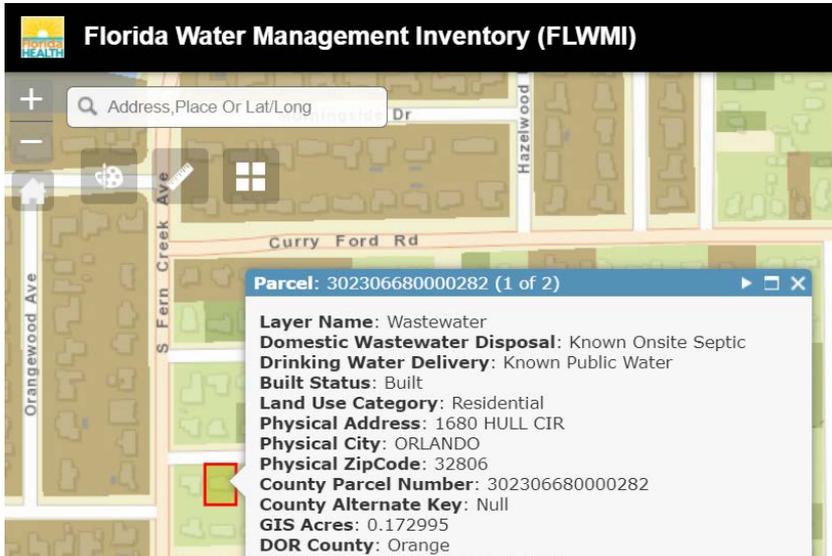
Bivariate Mapping

- Shows wastewater & drinking water on one map
- Reveals data patterns



FLWMI Web Application

<https://gis.flhealth.gov/FLWMI>



DOR County: Orange

Wastewater Year Updated: 2016

Wastewater Data Source Type: DOH Headquarters

Wastewater Source Name: 48-SO-26422 EHD Construction

OSTDS - Construction EHD July2015

Tax Assessor:

DOR County: Orange

Drinking Water Year Updated: 2016

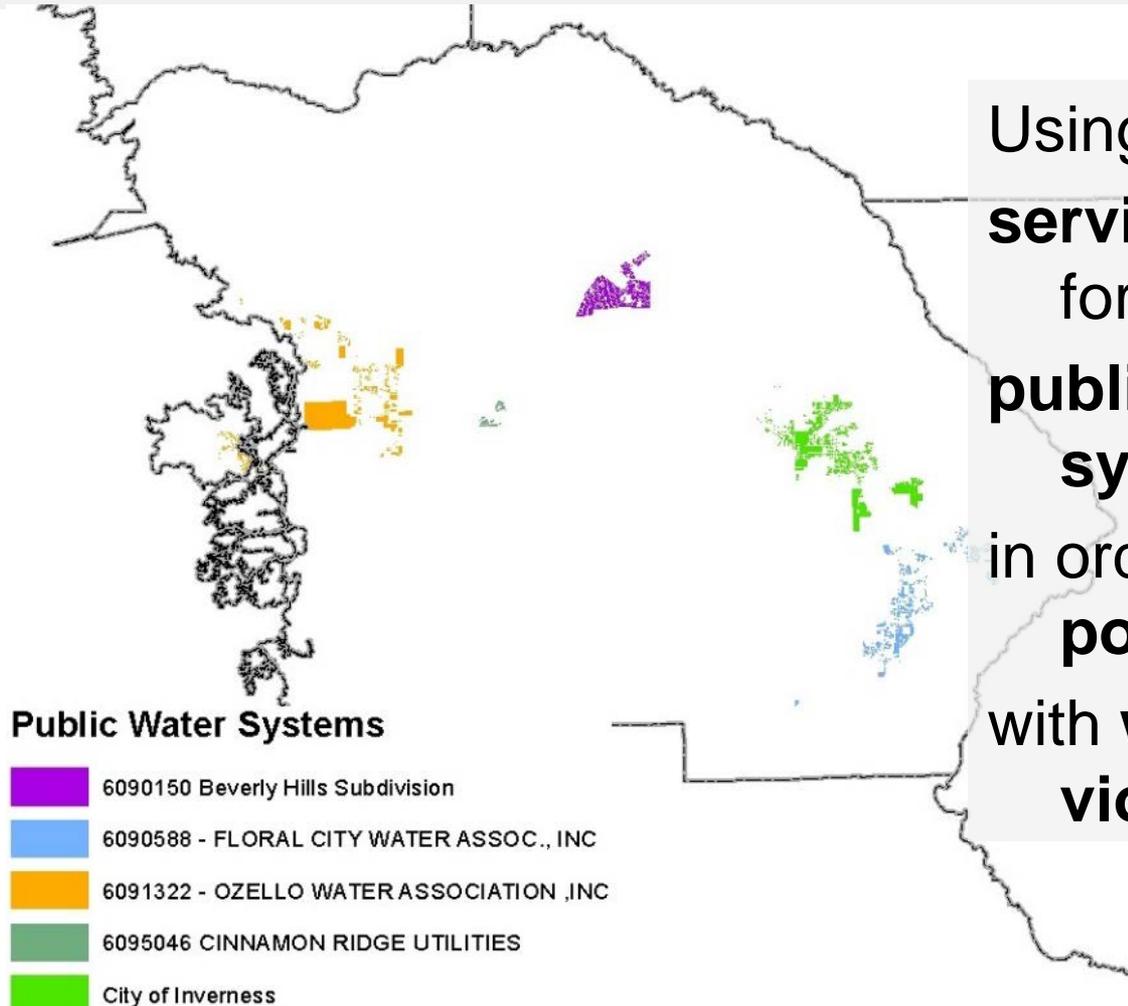
Drinking Water Data Source Type:

Drinking Water Source Name: Orlando Utilities Commission meter pt

Tax Assessment Year: 2015

FLWMI Collaborations

Environmental Public Health Tracking



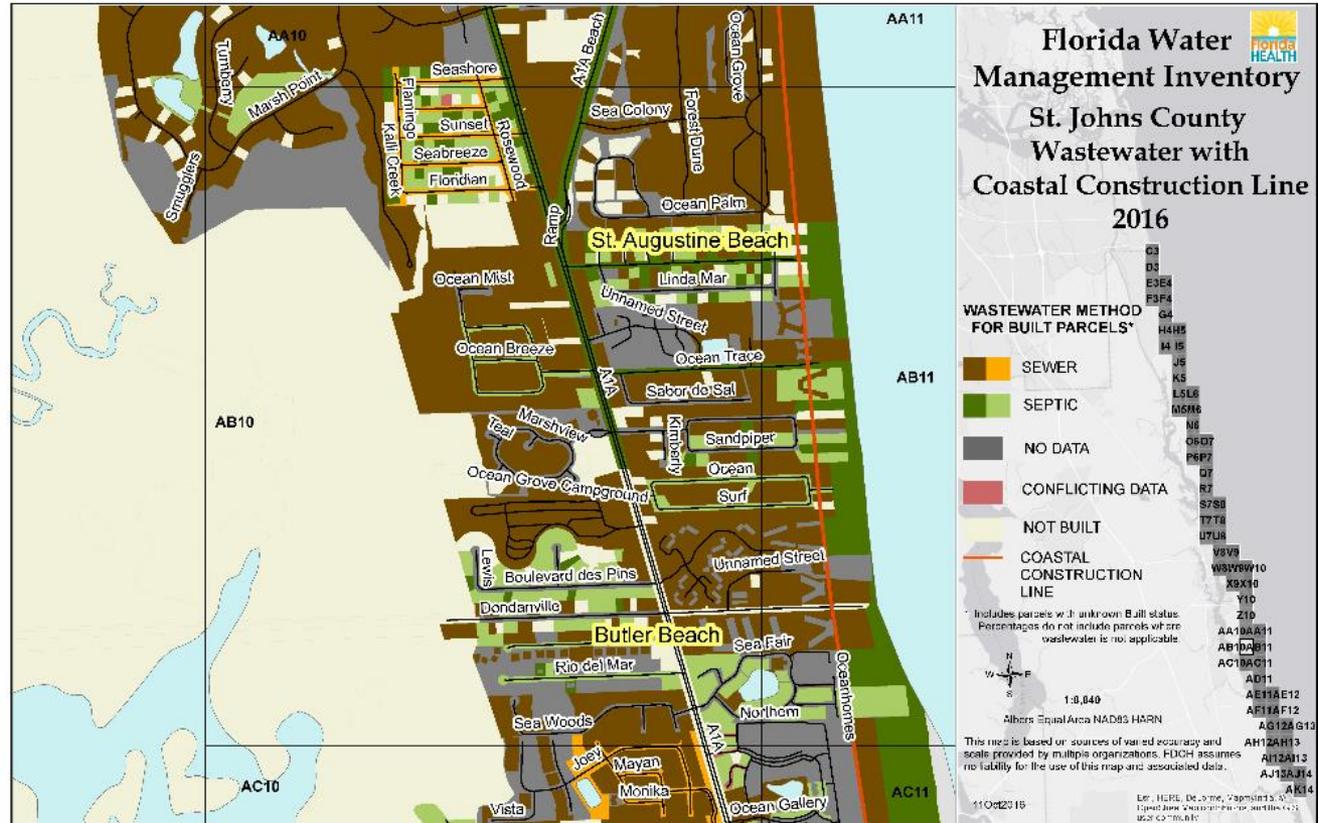
Using inventory to create **service area boundaries** for **public drinking water systems** in order to link **impacted population** with **water quality violations**

FLWMI Collaborations, cont.

Disaster Preparedness & Response: Wastewater

Map books to help strike team response to Hurricane Matthew

Pre-landfall analysis of at-risk onsite sewage systems



FLWMI Collaborations, cont.

Disaster Preparedness & Response: Drinking Water



Surge Zones for TS, 1, 2, 3 (Category 3)

Collier = 22,173 known/likely wells

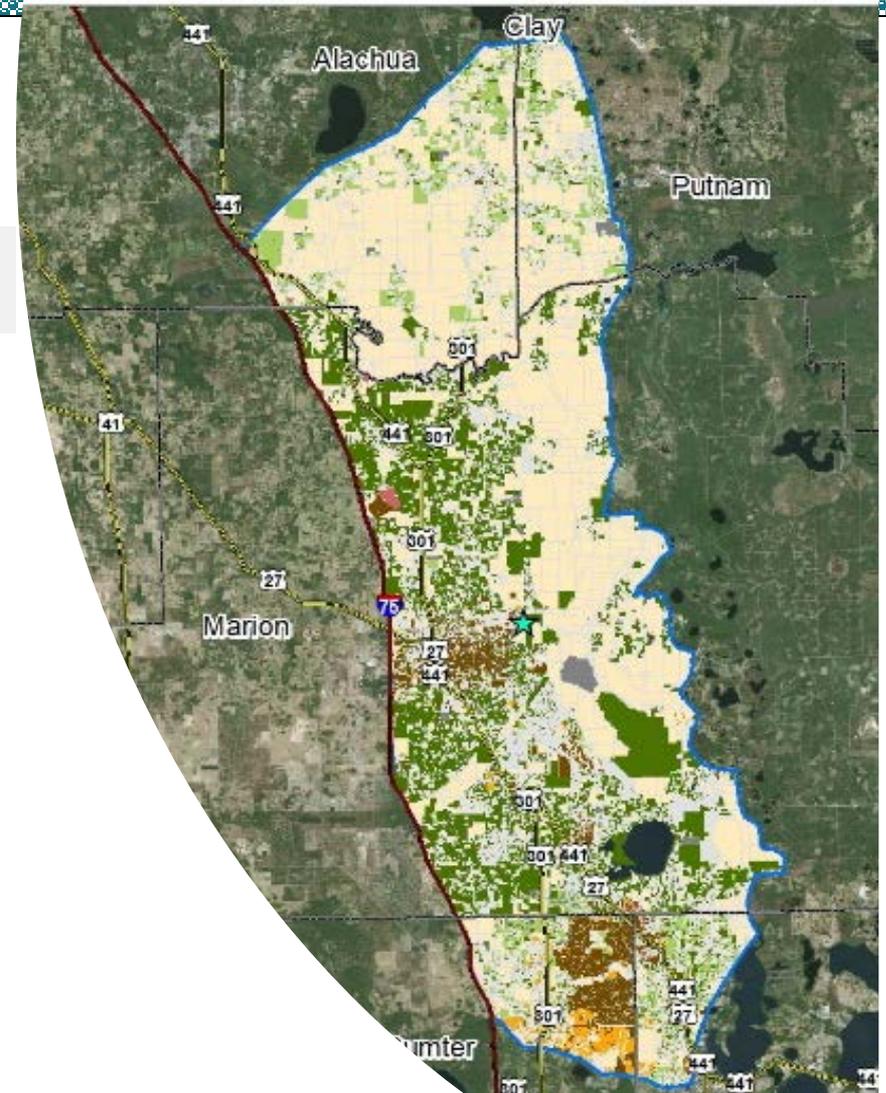
Lee = 12,941 known/likely wells

Putnam = 482 known/likely wells

Total for all 3 counties: 35,596 known/likely wells

FLWMI Collaborations: Ground Water Quality

- Estimating nitrogen load contribution
- Identifying high priority areas for remediation projects
- Choosing appropriate remediation methods to help with Basin Management Action Plan implementation



Challenges and Required Improvement

- For EHD:
 - Replacement by vendor-supplied replacement system (2018-2020)
- For Mars:
 - Replacement by vendor-supplied replacement system (2018-2020)
- For FLWMI:
 - Locate and secure sustainable funding source
 - Incorporate latest Parcel Polygons and Tax Roll Data
 - Add new and updated data from Utilities, for domestic well permits
 - Incorporate data into EHD

Contact Information

Kara Loewe and Eberhard Roeder

Division of Disease Control and Health Protection

Bureau of Environmental Health

Onsite Sewage Programs

850-245-4250