

On-Site Program Reviews

A View of Local On-Site Wastewater Programs in North Carolina

Where We've Been & What We've Found

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Local Program Reviews

Evaluation of

Performance of Staff
Program Procedures
Paperwork
Personnel

Performance of Staff

Documentation

Random Site Visits

System Installation Inspections

Repair Analysis and Permitting

Review Program Procedures

What policies and procedures does the the local program follow as they:

Accept Applications

Conduct site evaluations

Issue and deny permits

Inspect final installations of systems

Paperwork

Filing system

Can files be easily retrieved?

Is any type of permit or complaint tracking system available?

Forms and Permits

Do they contain information and documentation as required by general statutes and rules?

Forms Reviewed

Application for Improvement Permit

Application for Construction Authorization

Site Evaluation Form

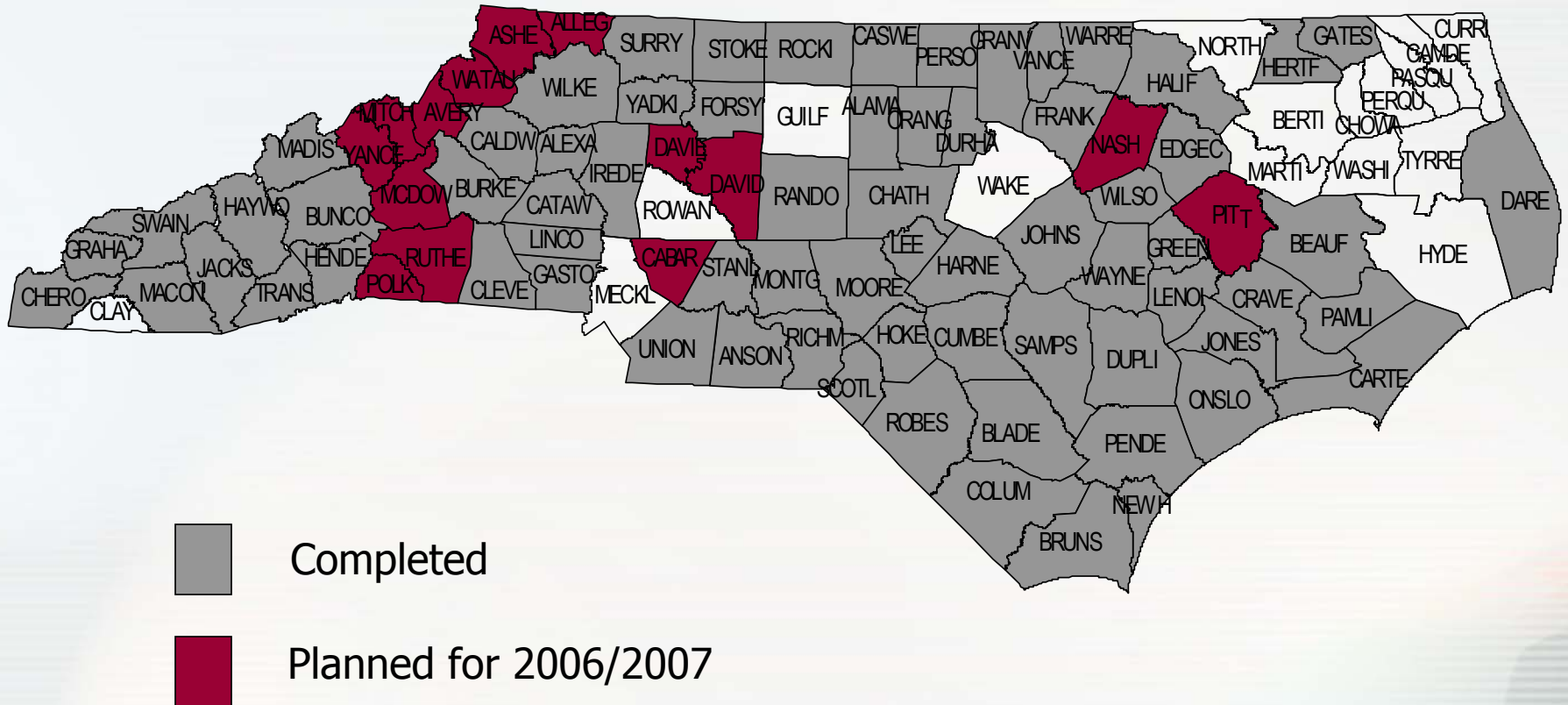
Improvement Permit

Construction Authorization

Operation Permit

Denial Letter

OSWW Reviews To Date



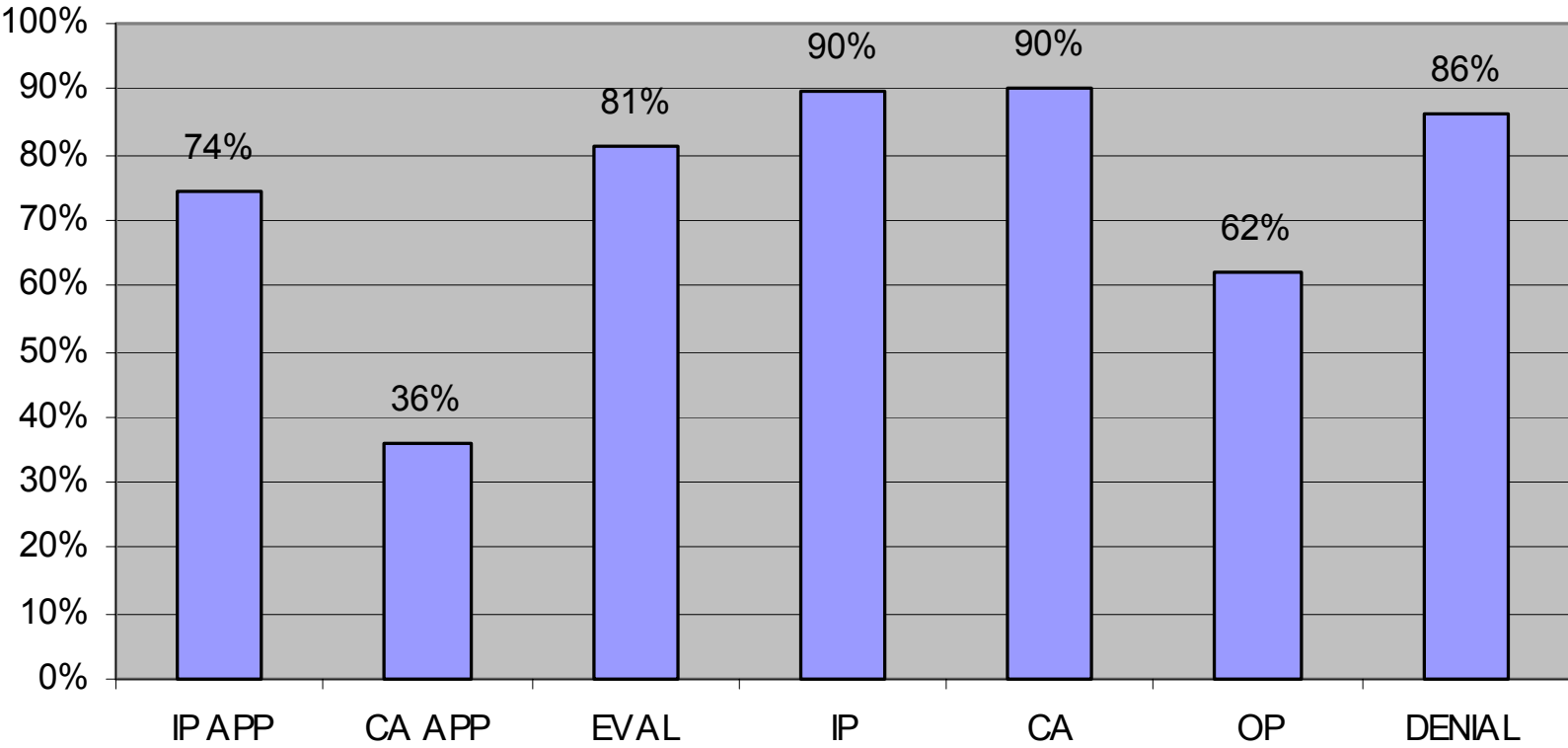
Updated March 2006

Forms Reviewed

Application for an Improvement Permit

Rule or Law	
.1937(d)	Owners name
.1937(d)	Owners address
.1937(d)	Owners phone number
.1937(d)	Location of property
.1937(d)	Plat or site plan of property
.1937(d)	Description of existing and /or proposed facility or structure
G.S. 130A-335(f)	Time period permit is valid.
.1937(d)	Type of water supply
.1937(d)	Signature of owner or owner's legal representative
.1937(d)	Statement that applicant shall notify health department of:
	1. Wetlands
	2. Any wastewater generated other than domestic sewage
	3. The site is subject to approval by other public agency
G.S. 130A-335(f)	Terms of revocation

FORMS COMPLIANCE - 79%



FORMS

Application for Improvement Permit – 74%

Time period permit is valid

Presence of wetlands

Generation of wastewater other than sewage

If site is subject to approval by another agency

Application for Authorization to Construct – 36%

Designation of proposed system type by Applicant

Site Evaluation Form – 81%

Using one

Improvement Permit – 90%

Time permit is valid

Terms of revocation

Design flow

FORMS

Authorization to Construct – 90%

**Conditions regarding system type
System location and layout
Installation requirements**

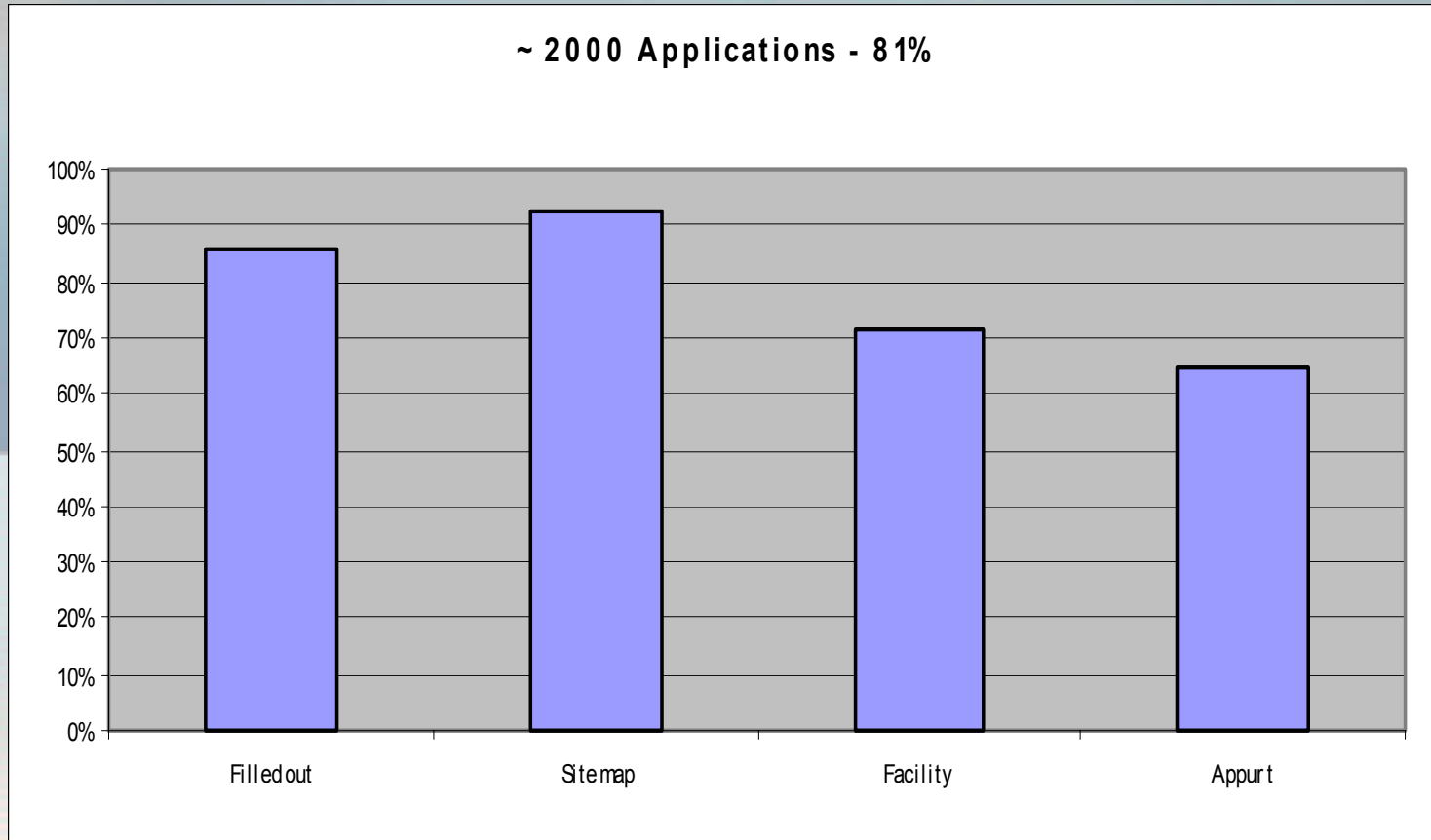
Operation Permit – 62%

**System type
Specific system
Conditions**

Denial Letter - 81%

Including report of soil and site conditions

Review of Permit Packages

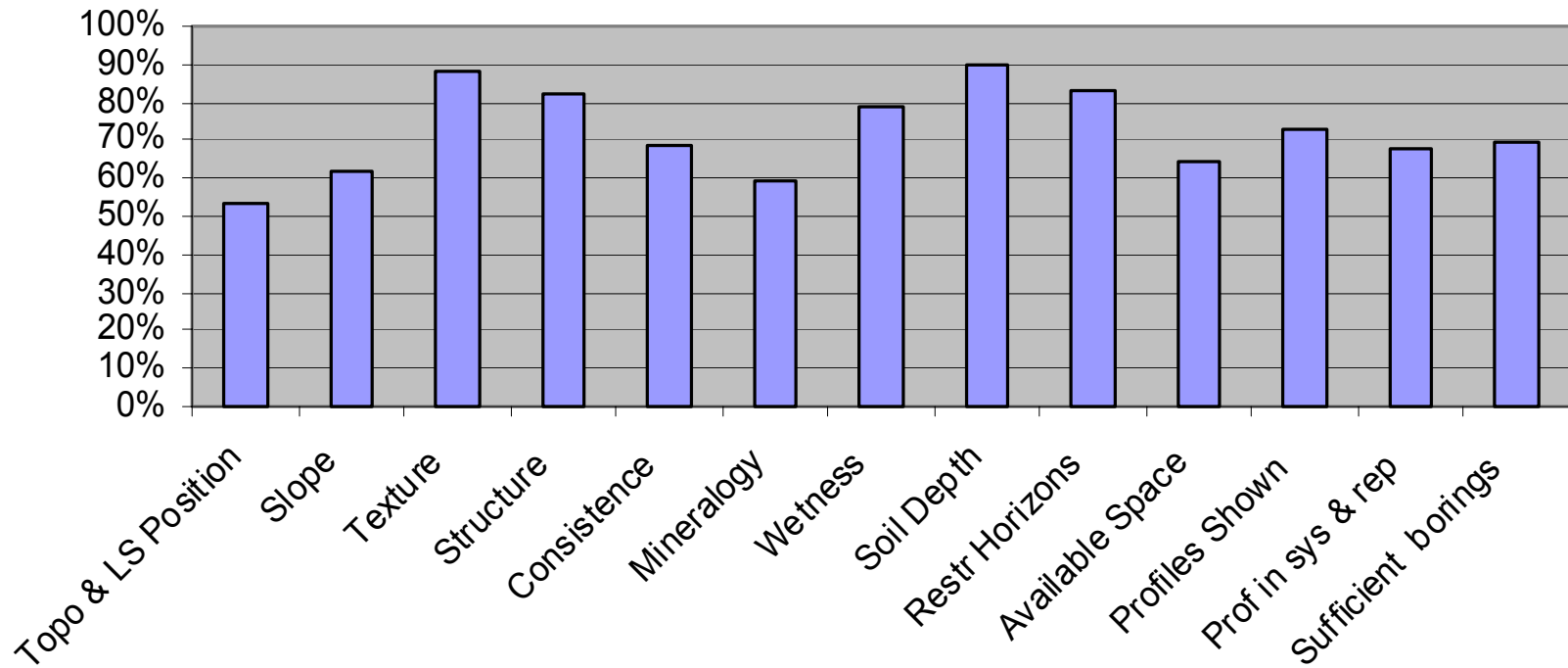


Incomplete site plan

Signature not owner or owner's legal representative

Site Evaluation Documentation Review

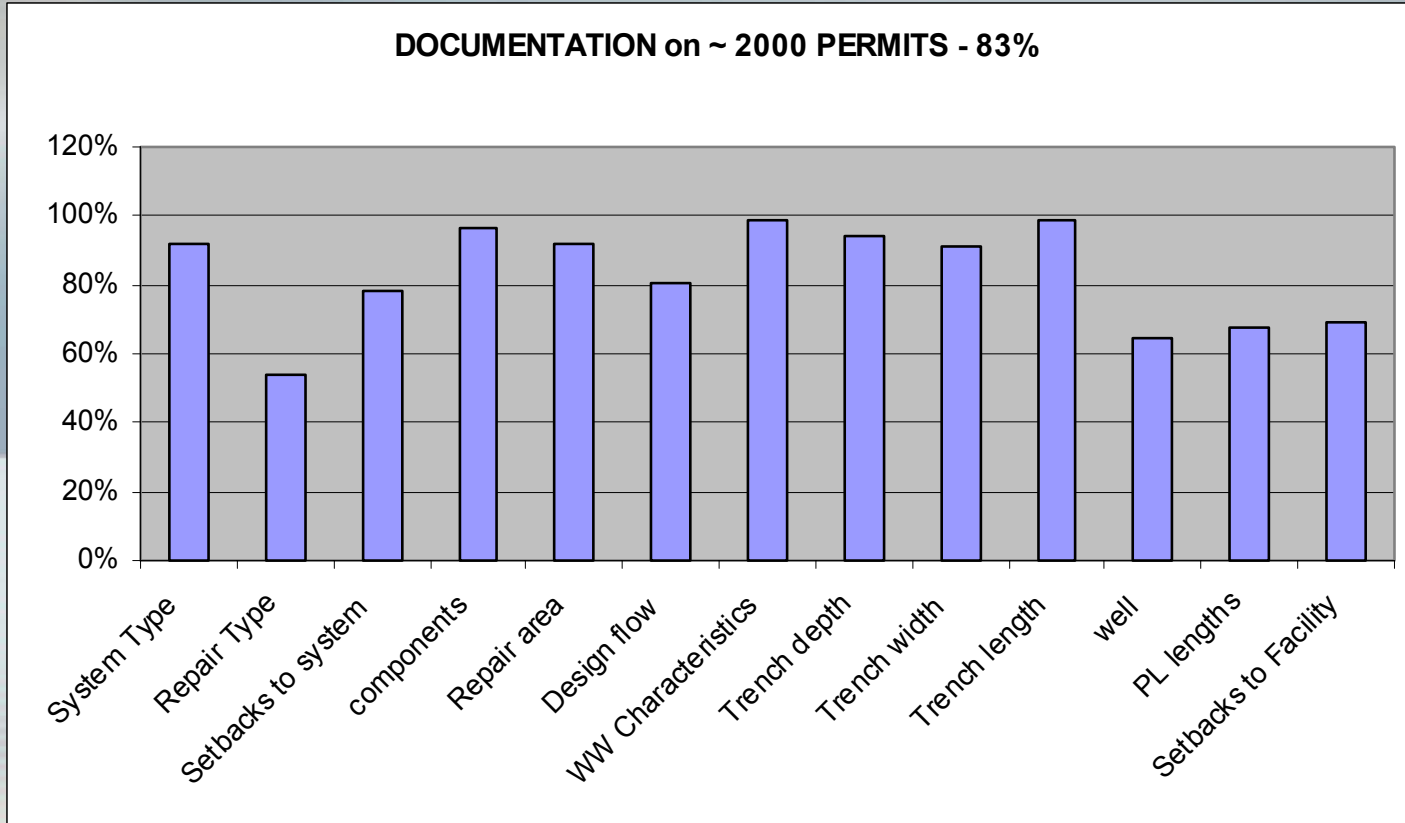
SITE EVALUATION DOCUMENTATION - 73%
~2000 SITES



Ranged from Limited or No notes to detailed notes

Two most frequently missing topography & landscape position and mineralogy

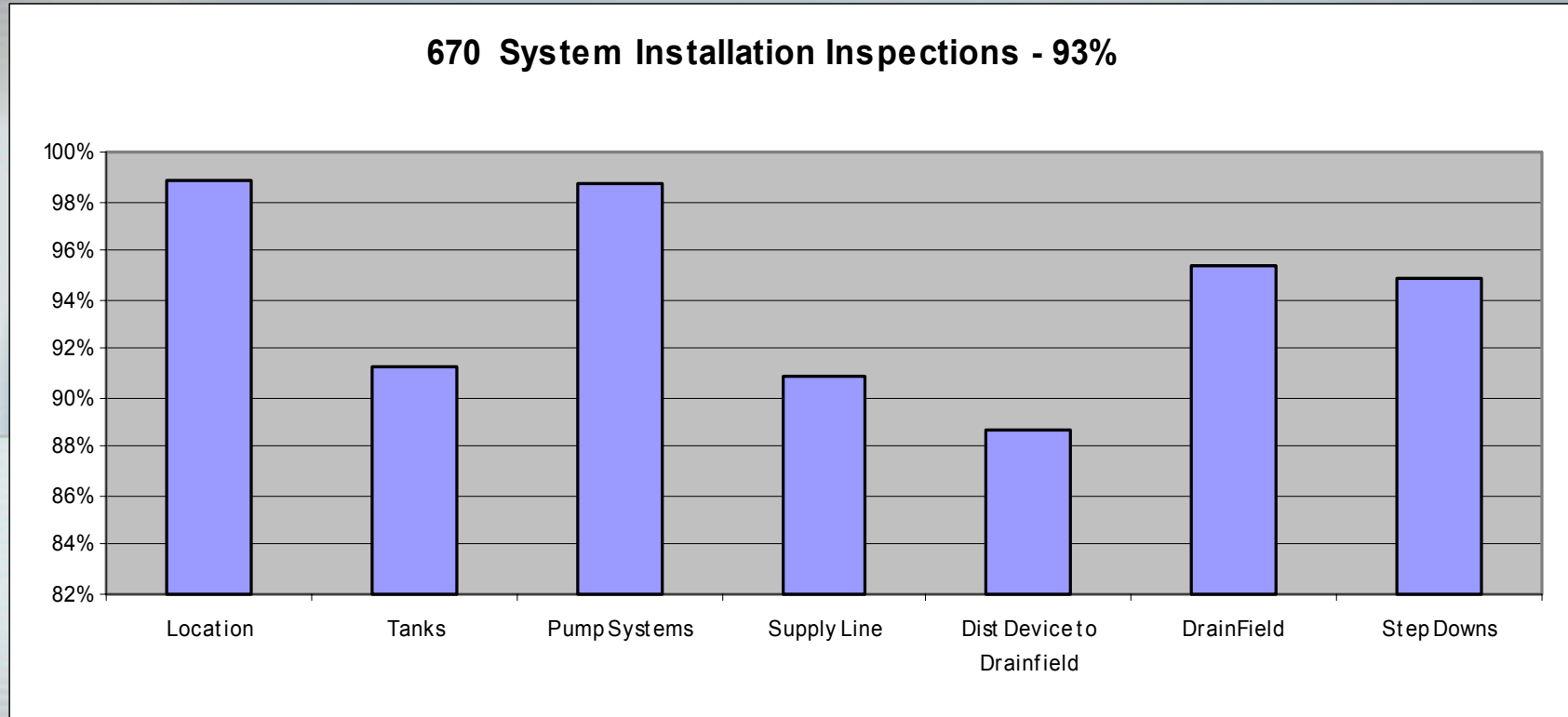
Accuracy & Completeness of Permits



Repair System Type
Well location

P/L Lengths
Tie Down Facility

Review of Installation Inspections



Tanks – exterior backfilled/not checking inlet end

Supply Line to D-box to Field – not verifying fall or maintaining 2' separation

Step Downs – not checking elevations

Field Review of 1240 Permitted Sites

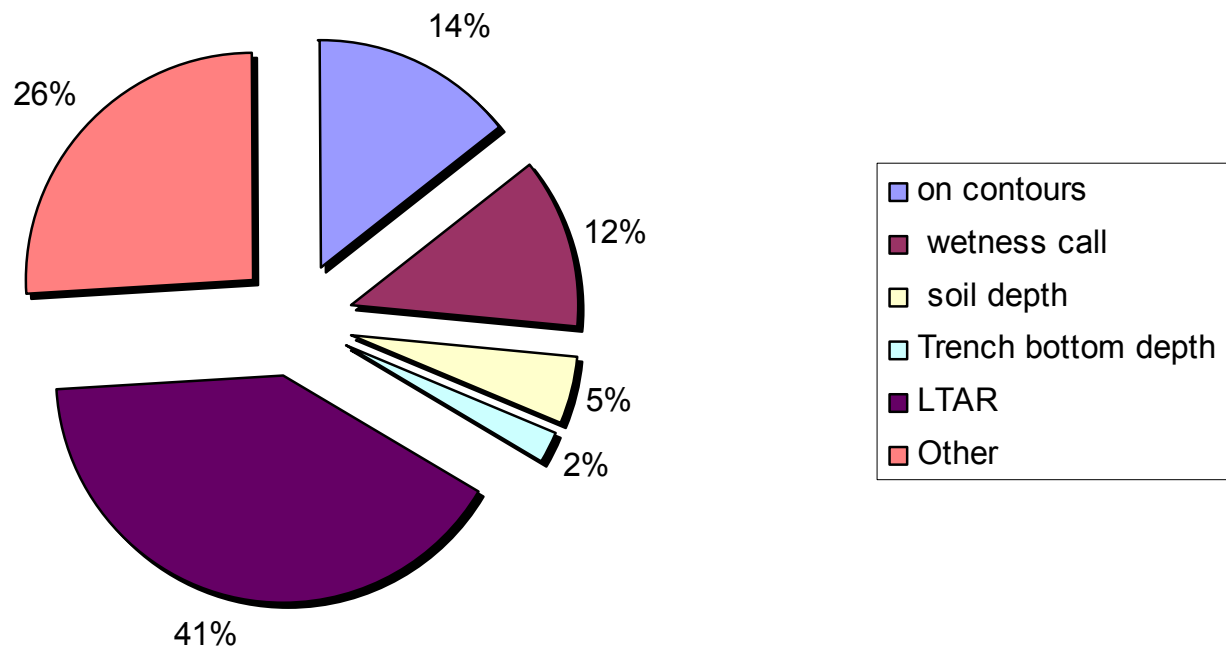
design = use	97.3%
design =soil/site	88.2%
Location in approved area	86.0%

Field Review of Permitted Sites

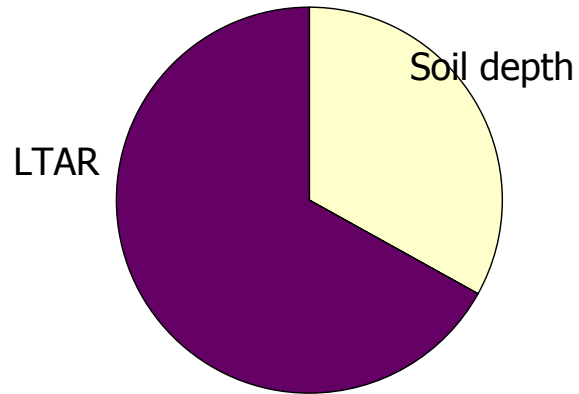
Permitting Problems	Mountain	Piedmont	Coast
Design not = use	3.3%	0.9%	3.9%
Design not = soil/site	9.5%	9.6%	14.6%
Location not in approved area	0.6%	1.2%	1.1%

Field Review of Permitted Sites

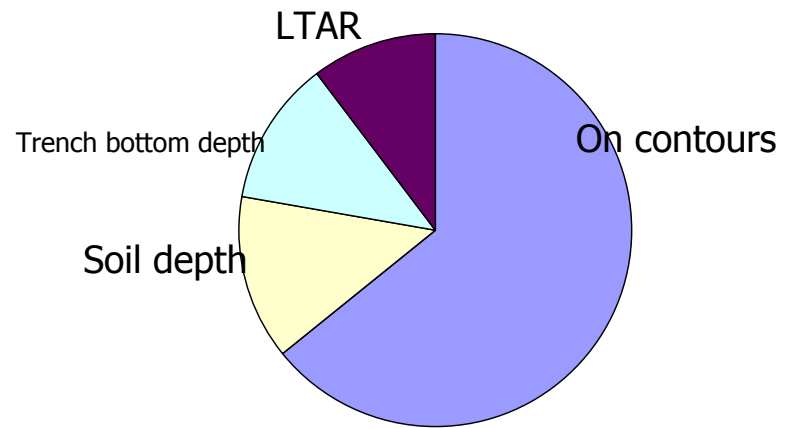
Missed Field Calls



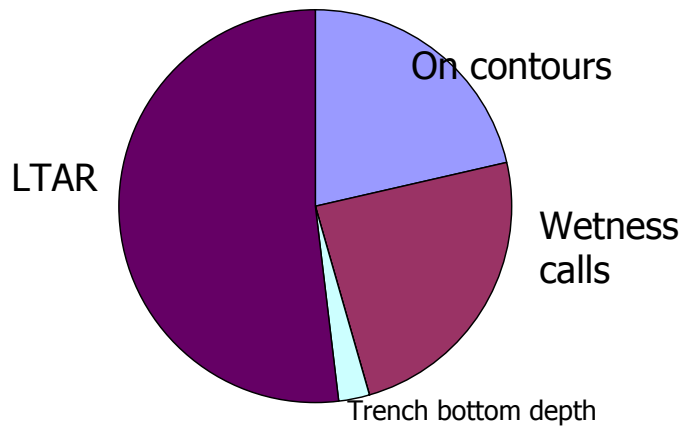
Mountain Missed Calls



Piedmont Missed Calls



Coast Missed Calls



1. When reissuing permits, old soil data should be confirmed and the re-evaluation documented

2. An investigation using pits must be conducted on sites where the system trench bottom depth will not maintain the required 12' separation from saprolite. These pits must be deep enough to evaluate a minimum of 24" below the proposed trench bottom de

3. The slope of each site must be checked and then taken into account when determining maximum trench bottom depth.

BPJ may only be applied for **malfunctioning** systems

min flow for cabin is 240 gpd

document finding on soil scientist lots even if you agree at least note that you evaluated and concur

1. Site evaluations must not be performed until after a complete application has been submitted.

If a system must be moved due to additions to existing structures the new site must meet the rules for new systems.

3. Expansions to existing structures that affect the wastewater flow and/or characteristics (such as adding new bedrooms or adding *garage* apartments) are to be treated as new systems.

4. Re-location of systems when the system is not failing (highway widening or subdivision of properties) must be evaluated as requests for new systems.

A soil and site evaluation must be made and documented for every malfunctioning system evaluation.

Questions?

Comments?

Thanks for your attention