Understanding the Management Guidelines



Why Are The Management Guidelines Needed?



- Onsite "treatment" codes are prescriptive
- Focus on public health rather than water quality
- Compliance based on construction, not performance
- Property owner responsible without accountability

Central Sewerage Alone Can Not Meet Treatment Needs



- Smaller economies of scale
- Household incomes typically lower
- Usually assigned lower priority for public financial assistance
- Operating costs typically high
- Annexation often required for regional treatment
- Gentrification of community often a consequence

Gap in Regulatory Programs is a Barrier to Good Solutions

- Unsewered properties faced with either/or option rather than continuum of solutions
- NPDES programs frustrated by perceived inadequacy of onsite technologies and ineffectual enforcement
- Local onsite programs
 perceive NPDES programs to
 demand rigid and excessive
 responses to low risk
 situations



Goals of the Management Guidelines



- To raise the level of onsite/cluster system performance through improved management programs
- To provide conceptual models that may be used by local units of government to assist them in upgrading their programs

Objectives of the Guidelines

- Facilitate **improved management** of onsite/cluster systems
- Institutionalize the management concept at the state and local levels
- Promote consistent management approaches
- Establish **benchmarks** for minimum levels of management appropriate for the management goals
- Provide flexibility to customize and upgrade the management program
- Include both surface and ground water discharges

Needs in Decentralized System Management



- Improved owner awareness
- Appropriate application of technology to receiving environment
- Sustained system performance to requirements
- Effective and affordable options for sensitive sites
- Licensed/certified practitioners
- Integration of decentralized and centralized options in planning

Highlights of the Management Model Options

Program Model 1: Homeowner Awareness

- Prescriptive system designs
- Proactive maintenance encouraged through education and reminders

Program Model 2: Maintenance Contracts

- Enhanced treatment on traditional sites
- Required maintenance contracts between owner and operator

Program Model 3: Operating Permits

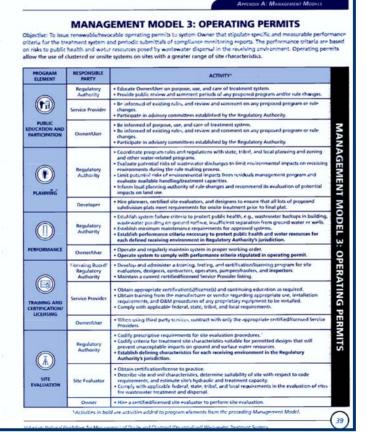
- Entry to performance-based programs (operating permits)
- Compliance based on performance rather than technology or design

Program Models 4 & 5: RME O&M or Ownership

- Responsibilities given to responsible management entity (4-third party O&M; 5-third party ownership)
- Watershed-wide planning

Elements in a Comprehensive Management Program

- Public Involvement
- Planning
- Performance Requirements
- Training & Certification/Licensing
- Site Evaluation
- Design
- Construction

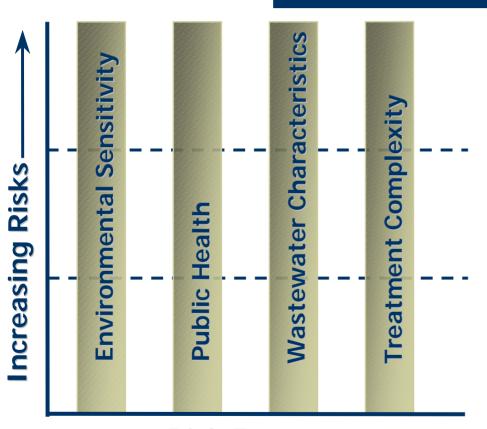


- 0&M
- ResidualsManagement
- Inspections/ Monitoring
- Corrective Actions
- Record-Keeping/ Reporting
- Financing

Selecting an Appropriate Management Model

- Models represent basic approaches, not rigid programs
 - Intended to establish a minimum program level
 - Meant to be customized to meet needs and resources of the jurisdiction
 - *e.g.* use of operating permits (Model 3)to monitor maintenance contracts (Model 2)
- Two types of models presented
 - Regulatory only (Models 1-3) with private ownership and management
 - Regulatory/RME programs that may overlay Models 1-3 or be supplant private property owner responsibilities

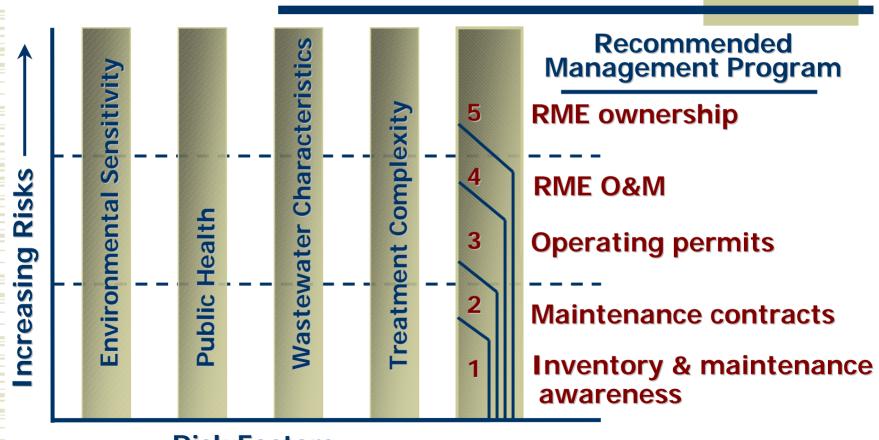
Application of Management Programs



- One program is not meant to be better than another except as they relate to potential risks
- As risks increase, management controls must be more rigorous to maintain the risks to public health and water quality at an acceptable level

Risk Factors

Application of Management Programs



Risk Factors

Management Handbook

Major features

- Public awareness and education tools
- Homeowners' Guide
- Case studies of management programs
- Database for inventories
- Examples of funding
- Model codes and ordinances
- Septage management examples



How Can the Guidelines be Used?

- To evaluate and improve existing programs
- To determine appropriate management structures that will provide the necessary powers for effective implementation
- To obtain model codes and ordinances
- To learn about a variety of programs already implemented in other areas of the country
- ◆ To receive "tools" that can be helpful in providing services and their administration

Approaches to Guidelines Implementation

- Implement according to need
 - Customize program based on need and existing program status
 - Implementation may be phased
 e.g. prioritize "hot spots"
 - Need not implement same level of program throughout jurisdiction
 - Do not raise risk factors until controls in place

Planning Element Options

- Models 1&2
 - Coordination of program with regional planning office
- Models 3&4
 - Identify critical areas requiring higher levels of treatment
- Model 5
 - Area-wide planning to determine most costeffective approach to providing treatment services



Compliance Inspections & Monitoring



Model 1

Owner awareness, 'pre-cover up' and periodic inspections

Model 2

Owner contract with licensed provider

Models 3&4

Specific and measurable performance requirements and compliance reporting

Model 5

Area-wide aquifer and watershed monitoring with adjustments as necessary

Implementing a Successful Program

- It's all or nothing!
- Make a commitment
- Demonstrate commitment
- Involve stakeholders
- Implement a public information campaign
- Investigate statutory authority
- Temper expectations

