



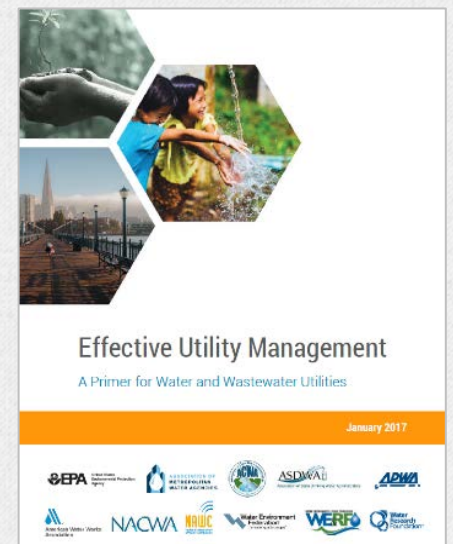
United States Environmental Protection Agency



MOVING TOWARD SUSTAINABILITY:

Sustainable and Effective Practices for Creating Your Water Utility Roadmap

Updated September 2018



Companion to the *Effective Utility Management Primer*



Contents



- Introduction and Purpose of This Document.....2**
- The Ten Attributes and Five Keys to Management Success5**
- How to Read and Use This Document.....7**
- 1. Strategic Business Planning and Leadership 10
- 2. Product Quality and Operational Optimization 16
- 3. Customer Satisfaction and Stakeholder Understanding & Support..... 26
- 4. Employee & Leadership Development..... 33
- 5. Financial Viability..... 40
- 6. Infrastructure Strategy and Performance 50
- 7. Enterprise Resiliency 55
- 8. Water Resource Sustainability 63
- 9. Community Sustainability 68
- 10. Measurement, Continual Improvement Management, and Knowledge Management 75
- Conclusion81**
- Appendix A: Resources Directory82**
- Appendix B: Acknowledgments.....90**

FOREWORD

Sustainable water and wastewater services are critical to providing the American public with clean and safe water. The delivery of clean and safe water helps to ensure the environmental, economic, and social sustainability of the communities that these utilities serve. Many utilities across the country face tremendous challenges, such as aging infrastructure, extreme weather events, population shifts, and competing economic resource priorities within their communities.

Today, more and more utilities assume leadership roles related to community sustainability, resource recovery and conservation, economic development, and technology innovation, becoming “anchor institutions” in their communities. As such, they must also focus on long-term sustainability and bringing about meaningful change in their organizations and communities. Since 2006, the U.S. Environmental Protection Agency (EPA) has worked in collaboration with utilities, states, professional associations, and research foundations to help utilities across the water sector respond to these challenges through the [Effective Utility Management](#) initiative. This document is an important resource to that initiative.

Moving Toward Sustainability: Sustainable and Effective Practices for Creating Your Own Water Utility Roadmap was developed with extensive input from leading utilities, states, and professional associations. Its purpose is to assist utility leaders in implementing proven and effective practices over time to improve their operations and move toward sustainability, at a pace consistent with their needs and the needs of their communities. The practices are organized according to three separate business levels, using the industry-accepted Effective Utility Management Ten Attributes and Keys to Management Success as its framework. The document provides utilities with a cohesive structure to help them systematically address various challenges proactively and with confidence to create an individualized “roadmap” as they move toward sustainable operations over time.

The proven and progressive practices described in this document can help utilities:

- Save money by optimizing the planning and delivery of services to their customers;
- Ensure a reliable source of water consistent with customer needs;
- Use energy and water-efficient practices and technologies that foster water reuse, resource recovery, and green infrastructure;
- Become more resilient to short-term disasters and other longer-term challenges; and
- Build greater understanding and support from decision-making bodies, customers, and other community stakeholders

Introduction and Purpose of This Document

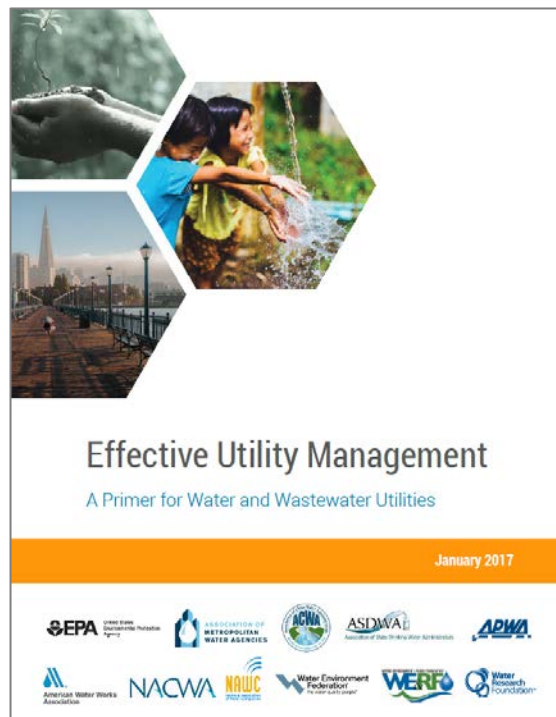


Sustainable water and wastewater services are critical to providing the American public with clean and safe water and helping ensure the environmental, economic, and social sustainability of the communities that utilities serve. Utilities across the country face tremendous challenges, such as aging infrastructure, an aging workforce, increasing mandates, and competing priorities within the communities they serve.

The purpose of this document is to assist utility leaders with implementing proven and effective practices over time to improve their operations and move toward sustainability, at a pace consistent with their needs and the needs of their communities. It provides utility leaders with a cohesive structure to help them address various challenges proactively and with confidence. The practices described in this document reflect the lessons learned and the practical experience utilities have derived as they have improved their operations. A utility can use this document to identify specific opportunities for improvement and draw on the example practices to create an individualized “roadmap” to more sustainable operations.

This document is a continuation of a significant body of work led by the Office of Water at the U.S. Environmental Protection Agency (EPA), in collaboration with ten other water sector associations, to promote actions to make water sector utilities of all sizes more sustainable and help ensure the sustainability of the communities they serve. EPA has collaborated closely with utilities, states, federal agencies, and other organizations in all of these efforts, including the following:

- Supporting effective utility management (EUM) based on a series of attributes of effectively managed utilities and keys to management success, as described in *Effectively Utility Management: A Primer for Water and Wastewater Utilities* (the “EUM Primer”).
- Working with the U.S. Department of Agriculture (USDA) on a parallel initiative and associated publication targeted to rural and small systems – *The Rural and Small Systems Guidebook to Sustainable Utility Management*.



**Effective Utility Management:
A Primer for Water and Wastewater Utilities**

- Developing a handbook to help utilities incorporate sustainability considerations into their existing planning processes – *Planning for Sustainability: A Handbook for Water and Wastewater Utilities*.
- Developing and maintaining a tool to help water and wastewater systems develop asset management programs – the *Check Up Program for Small Systems (CUPSS)*.
- Developing guidance and tools to help water and wastewater systems better understand their energy usage and identify opportunities to increase energy efficiency – *Ensuring a Sustainable Future: An Energy Management Guidebook for Wastewater and Water Utilities* and the *Energy Use Assessment Tool*.

The first publication referenced above, the *EUM Primer*, is particularly relevant to this document. The *EUM Primer* presents a set of Ten Attributes of Effective Utility Management (e.g., Financial Viability) and Five Keys to Management Success (e.g., Strategic Business Planning). The *EUM Primer* also provides a cohesive, objective, step-by-step, self-assessment framework for utilities to evaluate their strengths and identify areas for improvement. The practices provided in this document are presented to align with the Ten Attributes and Five Keys to Management Success from this publication, which has been endorsed by the U.S. EPA along with ten other Collaborating Organizations, and water utility leaders from across the country.

Utilities that choose to use this document should first undertake the EUM self-assessment to gain a better understanding of which management areas and practices they wish to focus on first. Information on the self-assessment tool and other EUM-related resources are available at www.WaterEUM.org.

This document reflects significant input and leadership from a group of leading utility and state managers. The Acknowledgements section of the document provides a list of these individuals. Industry professional associations and others have also provided significant leadership in this area. Examples include the *Energy Roadmap for Wastewater Utilities* developed by the Water Environment Federation (WEF); the *Utility of the Future Blueprint* developed by the National Association of Clean Water Agencies (NACWA), Water Environment Research Foundation (WERF), and WEF; and the *Sustainability Policy* of the American Water Works Association (AWWA).

This document is designed to complement, but not duplicate the efforts of EPA and its water sector partners. EPA continues to work closely with industry and other partners to clarify how these various efforts complement each other and communicate this alignment to the water sector utility community at large.

The Path to This Document

This document was originally released in 2013 with substantial development support from a group of utility and state program managers, who built on past work to promote sustainable utility management, including the *Effective Utility Management Primer*. In 2015-2016, EPA recruited leaders from five utilities to “road test” the document at their organizations.

Based on the experiences of the Road Testers, advancements across the water sector, and updates to the companion *Effective Utility Management Primer* document, EPA updated the *Roadmap* in 2018 to the version that you are reading today.

WHAT'S IN IT FOR ME? WHY UTILITY LEADERS SHOULD CREATE A ROADMAP

Utility leaders (both managers and staff) are looking for practical, flexible, and user-friendly tools that can help them improve the day-to-day management of their operations. As more and more utilities engage in leadership roles on issues related to community sustainability, resource recovery and conservation, economic development, and environmental education, they must concurrently focus on long-term sustainability and bringing about meaningful change within their organizations. This document provides a structure for creating a roadmap that can help utility leaders address these challenges and capture opportunities proactively and with confidence. The proven and progressive practices described in this document can help utilities do the following:

- Save money by optimizing the planning and delivery of services to their customers.
- Better protect the environment by consistently meeting regulatory requirements.
- Ensure a reliable source of water consistent with customer needs.
- Recruit and retain a workforce necessary to ensure sustainable operations.
- Become more resilient to short-term disasters and other longer-term challenges.
- Use energy and water-efficient practices and technologies that foster water reuse, resource recovery, and green infrastructure.
- Build greater understanding and support from decision-makers, customers, and other stakeholders.
- Work effectively with other community interests to implement innovative, watershed-based solutions and strengthen the local economy.

OTHER THINGS UTILITY LEADERS SHOULD KNOW ABOUT THIS DOCUMENT

- This document does not define a single roadmap for utilities to follow. It provides a flexible way for utilities to develop their own roadmap to meet the needs of their system and community.
- The practices in this document are illustrative examples that reflect extensive input from utility and state leaders from across the country.
- The practices, by design, are not comprehensive. They are progressive “practices with a purpose” that provide practical examples of how utilities can improve their overall sustainability and resiliency.
- The practices can be scaled and implemented regardless of a utility’s size, geography, or capacity.
- This document organizes practices into three levels. The levels are a progression model that allows utilities to gauge where they stand in terms of practice adoption. It also allows them to create a roadmap for improvement to progress across the levels (if desired) and meet the needs of their community.
- These levels do not imply any judgment about a utility’s current performance. This document acknowledges that utilities have different technical, financial, and managerial capabilities and local operating contexts.
- EPA encourages utilities to create a roadmap based on these practices over time and at a pace consistent with their current priorities, future goals, and the needs of their communities.

The Ten Attributes and Five Keys to Management Success



Example practices presented in this document have been organized under the ten “Management Areas” identified in the diagram below. These areas are based on the EUM Ten Attributes and Five Keys to Management Success (described in the Introduction section and detailed in the [Effective Utility Management Primer](#)).

The Management Areas presented horizontally are based on the EUM Ten Attributes; they are not presented in any particular order. Two of these Management Areas – Product Quality and Operational Optimization, and Customer Satisfaction and Stakeholder Understanding and Support – reflect a merger of EUM Attributes for ease of presentation.

The remaining two Management Areas – Strategic Business Planning and Leadership; and Measurement, Continual Improvement Management, and Knowledge Management – are drawn from the EUM Five Keys to Management Success. These Management Areas flank the other areas to signal their importance to effective performance improvement. Good planning on the front-end guides implementation of the practices and measurement and continual improvement on the back end enables adaptation and optimization as utility operating and external community and watershed priorities evolve over time.



THE THREE BUSINESS LEVELS

Provided below are descriptions of the three “business levels” used in this document to present example practices. The levels support the dual purpose of this document: (1) to provide a cohesive set of specific example practices across the Management Areas within each business level; and (2) to provide a clear path for utilities to adopt successively more progressive practices over time.

These business levels are only intended to help utility managers understand where they stand in terms of adopting practices; the levels are not “bright lines” or mutually exclusive of each other. In addition, individual utilities may choose to initially focus their attention on one or only a few selected Management Areas reflective of their own priorities and capacity, and local community needs and expectations.

Level 1 – Providing Adequate, Fundamental Services: At this level, a utility is implementing practices that focus on meeting and maintaining compliance for all applicable regulations, ensuring adequate levels of operational resiliency, and implementing revenue and financing mechanisms that assure its mid- to long-term financial viability. The utility uses industry-accepted standard operating procedures (SOPs), proven and reliable technologies, and has clearly defined staff roles and responsibilities. The utility maintains a positive public image, cultivates an understanding of its operations and the value of its services with the community, is able to identify risks to high-consequence assets and plan for emergencies, and is capable of receiving and responding to customer and community concerns and complaints in a timely manner.

Level 2 – Optimizing Operations and Services: In addition to providing basic services consistent with Level 1, a utility at this level is focusing on continual improvement and views optimizing its operations and services as central to mission success. The utility actively engages with its community to create operating conditions that are responsive to community needs and interests. The utility has established working relationships with neighboring systems as appropriate, has explicit performance improvement objectives and service levels, and actively seeks to ensure its operations support the community’s economic and social well-being. The utility has adopted sustainability as a core business principle and appropriately utilizes natural systems, like green infrastructure, in addition to other nonconventional technologies (e.g., decentralized approaches) and practices. The utility has started using processes for the internal recovery of energy, solids, and materials.

Level 3 – Transforming Operations and Services for the Future: In addition to optimizing its current services, at this level, a utility is implementing practices consistent with many of the directions set forth in leading industry initiatives like the *Utility of the Future Blueprint*. The utility is employing practices that focus on managing treated wastewater and biosolids as valuable commodities, both to improve efficiency and as new revenue sources. The utility focuses on enhanced resiliency; acts as a leader in local watershed and community sustainability; and works actively with other local institutions to engage in community planning in order to help ensure economic, social, and environmental sustainability. The utility is a leader in and catalyst for economic development within the community; focuses on resource management and recovery; and works actively with others to promote full water cycle stewardship within its watershed to seek low-cost, high-return solutions. The utility also fosters an internal culture of innovation, collaborative development, and active engagement with its employees.

How to Read and Use This Document



The graphic below will help utilities understand how this document is structured in each of the ten Management Areas. The example practices on the following pages are numbered for ease of access/reference. There is no implied importance or ranking associated with the numbering scheme included in the document.

The Management Areas:

1. Strategic Business Planning and Leadership
2. Product Quality and Operational Optimization
3. Customer Satisfaction and Stakeholder Understanding & Support
4. Employee & Leadership Development
5. Financial Viability
6. Infrastructure Strategy & Performance
7. Enterprise Resiliency
8. Water Resource Sustainability
9. Community Sustainability
10. Measurement, Continual Improvement Management, and Knowledge Management

Management Area Title — **1. Strategic Business Planning and Leadership**

Management Area Scope — **SCOPE** This Management Area addresses various forms of planning including capital, long-range, and strategic planning, and the leadership required to implement these plans effectively. It incorporates building organizational and community needs and objectives into these processes. It includes collaborative relationships – guided by utility leaders – established with other water utilities, local government entities, private enterprises, and non-governmental organizations (NGOs) to enhance the utility’s performance, capacity, and capabilities.

Business Level — **Level 1: Providing Adequate, Fundamental Services**

Practice Statement — **PRACTICE STATEMENT #1** **Planning:** Capital project needs identified and incorporated into annual budgets; technical, managerial, and financial capacity understood; and strategic needs and directions understood for the organization to document.

Example Practices —

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
1.1.1.1	Multiyear capital plan that prioritizes capital project needs and identifies high-priority and short-term needs and investments on a life-cycle cost basis.	Assessment:	<input type="checkbox"/> Don’t Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.1.1.2	Reserve fund accounts or ability to acquire debt sufficient to provide for capital needs over the mid- to long- term.	Assessment:	<input type="checkbox"/> Don’t Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.1.1.3	Policies and procedures in place for capital project monitoring and reporting.	Assessment:	<input type="checkbox"/> Don’t Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.1.1.4	Capital planning and improvement program, which identifies how the capital plan fits into the utility’s established policies, goals, and objectives and how the capital improvement process incorporates engineering and finance recommendations.	Assessment:	<input type="checkbox"/> Don’t Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

The example practices are numbered with a four-number code derived from: the numbered Management Area (ranging from 1 up to 10), followed by the Business Level number (ranging from 1 - 3), and then the Practice Statement number (ranging from 1 - 4). The final number in the code refers to the Example Practice itself (ranging from 1 up to 12).

Utilities are encouraged to follow these steps to help them most effectively use the practices presented in this document:

Step 1: Assess your relative strengths and weaknesses in each of the EUM Ten Attributes and Five Keys to Management Success. Prioritize those Management Areas you would like to initially focus on. Tools to help utilities conduct such an assessment are available at www.WaterEUM.org.

Step 2: Assess your current activity relative to each example practice in each of the three levels relevant to your selected Management Areas to determine the extent to which your utility has implemented specific practices. Choosing from the options “Don’t Have,” “In Progress,” or “Complete,” check the description that best characterizes your utility’s current activity for each example practice.

Step 3: Determine what action to take relative to each example practice. Based on steps 1 and 2 above, identify specific actions you will take drawing on the example practices (or similar practices, as appropriate). Choosing from the options “Adopt,” “Improve,” or “Maintain,” check the box that describes what you believe your utility needs to do for each practice.

- **ADOPT:** Check this box if your utility does not currently have a management practice that represents the example practice and that it needs to have this practice to reach its desired level of implementation.
- **IMPROVE:** Check this box if your utility has a management practice that is related to the example practice, but improvement is needed to reach your desired level of implementation.
- **MAINTAIN:** Check this box if your utility has the example practice already in place and that you want to continue using this practice.

Step 4 (Optional): Add any alternative or additional practices that you believe are relevant. In each level of each Management Area, your utility may have in place, or be aware of, management practices that you believe are either a good substitute for one of the existing example practices or are a good addition to the suite of example practices listed in this document. For each alternative or additional practice, you will need to write in a written description, and complete Steps 2 and 3 for each practice.

Step 5: Draw a conclusion for each practice statement. At the end of each practice statement section, you will draw a conclusion about what your utility needs to do relative to the practice statement. You will draw this conclusion based on the assessment of your current activity and actions that you determined (Steps 2 and 3).

Practice Statement Conclusion: Green Yellow Red

Each practice statement section has check boxes at the end for “Green,” “Yellow,” and “Red,” which represent the following:



- **RED:** Stop and take a more in-depth look at what needs to be done in this area to bring your utility to the level at which it aspires to be. Check this box if you have mostly “Don’t Have” and “Adopt” boxes checked.
- **YELLOW:** Slow down and assess how you can improve your current practices (including completing those that you have already begun to implement but are not yet fully in place). Check this box if you have mostly “In Progress” and “Improve” boxes checked.
- **GREEN:** You are good to go in this area – keep up the good work. Check this box if you have most or all example practices in place (or have additional or alternative practices), and if you have mostly “Complete” and “Maintain” boxes checked. Do not forget to come back to these practices on a regular basis to make sure they are up to date.

Step 6: Make any necessary notes. At the end of each practice statement section, make notes as needed, considering the following questions:

- Why did I select the Practice Statement Conclusion that I chose? Was it a close decision between one conclusion and another?
- At what level of implementation does my utility want to be for this Management Area? Is my utility close to meeting this goal (or have we already met it)?

Step 7: Develop an action plan that identifies the steps you will take to adopt the practice(s), who will be responsible, and a timeline for action. The Appendix to this document includes a directory of resources designed to help you. These resources are organized around the ten Management Areas presented in this document.

1. Strategic Business Planning and Leadership

SCOPE

This Management Area addresses various forms of planning including capital, long-range, and strategic planning, and the leadership required to implement these plans effectively. It incorporates building organizational and community needs and objectives into these processes. It includes collaborative relationships – guided by utility leaders – established with other water utilities, local government entities, private enterprises, and non-governmental organizations (NGOs) to enhance the utility’s performance, capacity, and capabilities.

Level 1: Providing Adequate, Fundamental Services

PRACTICE STATEMENT #1

Planning: Capital project needs identified and incorporated into annual budgets; technical, managerial, and financial capacity understood; and strategic needs and directions understood for the organization to document.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
1.1.1.1	Multiyear capital plan that prioritizes capital project needs and identifies high-priority and short-term needs and investments on a life-cycle cost basis.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.1.1.2	Reserve fund accounts, or ability to acquire debt, sufficient to provide for capital needs over the mid- to long- term.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.1.1.3	Policies and procedures in place for capital project monitoring and reporting.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.1.1.4	Capital planning and improvement program, which identifies how the capital plan fits into the utility’s established policies, goals, and objectives and how the capital improvement process incorporates engineering and finance recommendations.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.1.1.5	Technical performance, reliability, and maintainability guidelines and selection criteria to evaluate, compare, and identify priorities among capital project proposals.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.1.1.6	Opportunities for staff across a range of levels of the organization to engage in business planning and leadership initiatives.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.1.1.7	Planning initiatives involving collaboration across all departments/areas of the utility.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.1.1.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.1.1.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.1.1.10	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Partnerships/Collaboration: Relationships established with water sector associations, regulators, and technical assistance providers to maintain awareness of and obtain support for implementing improvement opportunities.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
1.1.2.1	Staff attendance at industry technical and management/leadership conferences (state or national).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.1.2.2	Relationships with regulators and other members of industry to solicit external input on compliance and performance.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.1.2.3	Use of technical assistance services, such as those provided by states or water sector associations.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.1.2.4	Municipal or state contracts used, as available (e.g., accessing state General Services bulk purchase contracts for such services as laboratory analysis).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.1.2.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.1.2.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.1.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

Level 2: Optimizing Operations and Services

PRACTICE STATEMENT #1

Planning: Medium- and long-range (10 to 20 years) utility and community clean and safe water needs understood through a formalized, systematic, and transparent planning process.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
1.2.1.1	Strategic and long-range planning that integrate utility priorities and goals with other relevant community priorities. (Planning includes: goal setting reflective of utility and community priorities; explicit objectives and strategies in support of sustainability goals; alternatives analysis methods that integrate sustainability criteria; and financial strategy adequate to meet current and future needs).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.2.1.2	Explicit business case processes, including cost-benefit analyses, for selecting all major capital investments.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.2.1.3	Capital planning based on master plans that provide a vision for investments to correct existing deficiencies and meet future capacity needs.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.2.1.4	Explicit inclusion of continual improvement concepts in planning processes.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.2.1.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.2.1.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.2.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Partnerships/Collaboration: Operational agreements in place with neighboring utilities to improve system performance, lower costs, or improve resilience.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
1.2.2.1	Joint operating agreements for sharing administrative, maintenance, or other services (e.g., joint water and electricity meter reading).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.2.2.2	Cross-training of staff from neighboring utilities.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.2.2.3	Real-time control capabilities among neighboring systems that share collection or distribution networks.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.2.2.4	Staff participation in association committees and leadership in research projects.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.2.2.5	Proactive meetings with regulators and other key stakeholders to establish a pattern of positive interactions.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
1.2.2.6	Relationships (formal or informal) with nearby facilities to enter into joint management agreements (e.g., sharing of certified operators, consultants, equipment, sample collection, lab analysis, water line replacement/repair, or bulk equipment purchases).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.2.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.2.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.2.2.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

Level 3: Transforming Operations and Services for the Future

PRACTICE STATEMENT #1

Planning: Community priorities and broader watershed needs incorporated explicitly into utility decision-making; full internal alignment of utility vision, mission, and long-term planning exist; and sustainability is adopted as a core business principle. Utility vision, mission, investments, and operations integrated with other community departments.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
1.3.1.1	Utility long-term strategy and mission aligned with other community priorities and integrated into long-range and capital planning.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.3.1.2	Multi-attribute analysis to support incorporation of Triple Bottom Line principals and associated metrics explicitly into alternatives analysis for planning purposes.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.3.1.3	Economic development incentive policy supported by cost-benefit, feasibility, risk, and uncertainty analyses.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.3.1.4	Annual joint planning sessions with key community departments (e.g., Health, Transportation, Land Use and Planning, Parks, Economic Development, Arts), supported through efforts to encourage internal departmental adoption of planning results (e.g., change management training).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.3.1.5	Community vision planning sessions (catalyze or participate in) to align department missions and develop a unified sustainability strategy for the community and watershed.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
1.3.1.6	Scenario-based planning, or similar methods, to plan for and address complex uncertainties such as impacts from a changing climate.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.3.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.3.1.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.3.1.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Partnerships/Collaboration: Proactive relationships established with external parties critical to the organization's operating environment and core mission. Strategic relationships for short- and long-term collaboration and in support of alternative services also established.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
1.3.2.1	Lead or participate in coordination among local drinking water, wastewater, and stormwater utilities to integrate management strategies and long-term planning.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.3.2.2	Define policy criteria for making various contributions to, or investments in, partnership arrangements.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.3.2.3	Fund and operate energy generation technologies and resource recovery with public-private partnerships.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.3.2.4	Share information and coordinate with land use agencies on watershed planning.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.3.2.5	Advocacy by utility leaders for water sector initiatives (e.g., promoting alternative/innovative utility business models, promoting programs related to the Utility of the Future).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.3.2.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.3.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
1.3.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

2. Product Quality and Operational Optimization

SCOPE

This Management Area includes compliance with regulatory requirements, energy and materials usage (chemicals and residuals), technology, the production of high-quality products (including “fit for purpose” water and other recovered resources, such as energy, nutrients, and biosolids), performance monitoring, and standard operating procedures (SOPs).

Level 1: Providing Adequate, Fundamental Services

PRACTICE STATEMENT #1

Compliance/Performance Standards: Compliance obligations understood and consistently met, and applicable industry performance standards understood and adopted. Compliant industrial pretreatment program in place, and residuals compliant with applicable regulations.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
2.1.1.1	Water quality sampling and process control monitoring SOPs to support proactive recognition of possible compliance problems for all Safe Drinking Water Act (SDWA) and Clean Water Act standards (e.g., biochemical oxygen demand and total suspended solids monitoring in wastewater treatment plant discharge mixing zones; and drinking water chlorine residuals monitoring).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.1.2	Basic compliance metrics established and tracked for wastewater treatment effectiveness rate and relevant SDWA requirements.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.1.3	Program for identifying and incorporating new regulations, drinking water standards, or discharge limits.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.1.4	Industrial pretreatment program certified by state environmental protection agency in place.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.1.5	Applicable operator certification requirements program in place.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.1.6	Record-keeping and reporting requirement SOPs.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.1.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.1.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Operational Improvement and Maintenance*: Opportunities to improve operations undertaken as they are identified and time and resources allow. (The utility reacts to information provided from outside sources relating to improvement opportunities.)

* Refer to the Infrastructure Strategy and Performance section for maintenance details.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
2.1.2.1	Odor control measurement, monitoring, and response program.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.2.2	Leak detection and repair program.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.2.3	Optimization targets for use of labor, chemicals, and residuals.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.2.4	Valve exercise and maintenance program.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.2.5	Cross-connection control program.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.2.6	Water meter repair/replacement program.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.2.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #3

Energy/Materials: Basic energy efficiency opportunities identified and implemented. Basic chemical safety procedures in place.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
2.1.3.1	Energy use assessment.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
2.1.3.2	Chemical Right to Know program for all employees.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.3.3	No- or low-cost energy efficiency practices adopted (e.g., variable frequency drives wherever possible, low-energy lighting, etc.).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.3.4	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.3.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.3.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #4

Technology: Use fully characterized and generally accepted technologies and management systems. All plant process control systems functioning effectively and leading to full compliance for drinking water, wastewater discharges, and solids/residuals.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
2.1.4.1	Adequate sizing and maintenance for wastewater treatment facilities to ensure consistent permit compliance.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.4.2	Outside resource (e.g., regulatory agencies or consultants) usage to supplement in-house capacity and assist with decision making and implementation.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.4.3	Reliable disinfection methods operating consistently with permit compliance.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.4.4	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.4.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.1.4.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:



Level 2: Optimizing Operations and Services

PRACTICE STATEMENT #1

Compliance/Performance Standards: Beyond compliance service levels and practices adopted. “Outstanding performance” achieved in sanitary surveys. Proactively contribute to beyond compliance voluntary standards development.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
2.2.1.1	Voluntary optimization standard adoption (e.g., Partnership for Safe Water, EPA’s Area Wide Optimization Program).	Assessment:	<input type="checkbox"/> Don’t Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.1.2	Measurement, monitoring, and corrective action procedures of all key process units for detecting and responding to compliance “near misses.”	Assessment:	<input type="checkbox"/> Don’t Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.1.3	Written SOPs for critical utility operational functions.	Assessment:	<input type="checkbox"/> Don’t Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.1.4	Participation in water research activities, such as “pilot projects” or other testing for new, voluntary standards.	Assessment:	<input type="checkbox"/> Don’t Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.1.5	Water quality monitoring (source and distribution) beyond regulatory requirements.	Assessment:	<input type="checkbox"/> Don’t Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.1.6	Industrial user recognition program for beyond compliance performance (e.g., reduction of caustic chemical discharges to sewer system).	Assessment:	<input type="checkbox"/> Don’t Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don’t Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.1.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don’t Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.1.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don’t Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Operational Improvement and Maintenance*: Create and implement an operational optimization plan and program. Utility seeks to improve performance beyond compliance requirements.

* Refer to the *Infrastructure Strategy and Performance* section for maintenance details.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
2.2.2.1	Standardized equipment and functions (e.g., uniformly outfitting trucks).	Assessment:	<input type="checkbox"/> Don’t Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
2.2.2.2	Resource optimization targets (e.g., created and monitored for operation and maintenance (O&M) costs per population served, cost of customer billing per service connection, water collected or treated per employee).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.2.3	Distribution system pressure monitoring.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.2.4	Real-time on-line monitoring for key parameters (e.g., pH, chlorine residual, etc.) to ensure optimal operation.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.2.5	Available process equipment capability optimized (e.g., for effluent quality to the maximum extent practicable).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.2.6	Distribution system water age management program.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.2.7	Optimization programs to improve treatment efficacy and water quality, and to reduce chemical usage, energy costs, and sludge volume.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.2.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.2.10	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #3

Energy/Materials: Energy management plan in place; proactive industrial pretreatment program, including pollutant trackback and pollution prevention program in place; opportunities for reductions of chemical usage identified and implemented; plan optimized to maximize residual capture and residuals used for beneficial reuse to the maximum extent possible; and utilization of plant effluent for process water needs.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
2.2.3.1	System-wide water and energy audits conducted.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.3.2	Explicit energy optimization actions and goals (e.g., energy reduction targets adopted and tracked).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.3.3	Trackback program for pollutants of concern.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.3.4	Chemical monitoring systems to minimize probability of unnecessary overdosing.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
2.2.3.5	Optimized sludge thickening and dewatering equipment to maximize solids capture capacity.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.3.6	Vigorous manufacturer and other sources of inorganic pollution outreach and education to help utilities implement best pollution prevention practices.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.3.7	Water optimization program (including re-use strategy and targets, water loss control program, and customer water audit program).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.3.8	Take-back program promotion (e.g., for unused pharmaceuticals).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.3.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.3.10	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.3.11	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #4

Technology: Innovative technology adoption capacity in place. Practices to help reduce the sewage and stormwater burden on sewer lines and sewage treatment plants and reduce the need for capital upgrades in place.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
2.2.4.1	Green infrastructure for stormwater management source control (e.g., rain gardens, permeable pavement, and green parking lots).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.4.2	Advanced treatment technology evaluation in equipment replacement and capital improvements.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.4.3	Secondary treatment and filtration automated process systems (e.g., membrane treatment, UV treatment).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.4.4	Infiltration/inflow removal and impermeable surface reduction.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.4.5	Liquefied Petroleum Gas (LPG)-fueled vehicles.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.4.6	Practices to help mitigate groups of contaminants or contaminant precursors from drinking water.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.4.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
2.2.4.8	Alternative or Additional Practice:	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.2.4.9	Alternative or Additional Practice:	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

Level 3: Transforming Operations and Services for the Future

PRACTICE STATEMENT #1

Compliance/Performance Standards: Compliance assurance capacity expanded to address new regulatory areas that come with marketing and sale of resource recovery products or utility proprietary services and tools. Proactive engagement with regulators, other utilities, and watershed participants to improve compliance performance and establish more effective performance expectations.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
2.3.1.1	Networking with energy and consumer product regulators to understand regulatory requirements and establish proactive working relationships.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.1.2	Proactive input to regulatory agencies in establishing new compliance levels.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.1.3	Assistance to other utilities to improve their performance (e.g., equipment loans, knowledge, and other resources).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.1.4	Active and effective environmental advocacy beyond the bounds of the utility's facilities.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.1.5	Alternative or Additional Practice:	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.1.6	Alternative or Additional Practice:	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.1.7	Alternative or Additional Practice:	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:



PRACTICE STATEMENT #2

Operational Improvement and Maintenance*: Advanced optimization methods and practices deployed. Integrate data system for automated real-time control and optimize utility and other community systems.

*Refer to the Infrastructure Strategy and Performance section for maintenance details.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
2.3.2.1	Real-time system control. (For example, traffic of peak flows or peak demands is controlled to manage the amount of water in the system by shuttling flow between treatment plants).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.2.2	Standard data infrastructure across interdependent utility operations.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.2.3	Utility Geographic Information System (GIS) layer integration across community service departments.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.2.4	Data and automated systems integration in the context of shared water utility operations (optimize existing infrastructure).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.2.5	Real-time monitoring of distribution system water quality.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.2.6	Dashboard system to track key indicators of importance to the utility (e.g., customer service, treatment quality, cost).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.2.7	GIS, hydraulic model, Supervisory Controls and Data Acquisition (SCADA), and customer information system full integration.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.2.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.2.10	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #3

Energy/Materials: Internal energy resource recovery adopted; deployment of enhanced energy generation approaches to meet 100 percent of energy needs (i.e., “net zero”); and initial advanced materials recovery.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
2.3.3.1	Alternative and renewable energy sources for plant operations (e.g., implementing solar power, wind power, or hydroelectric power; biogas for space heating; and conversion of biogas to electricity).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
2.3.3.1	High-strength waste acquisition and digestion (e.g., Fats, oils, and grease (FOG) or organics recovery from street sweeping).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.3.3	Partnerships for acquisition and marketing of energy (e.g., electric and gas utility partnerships, high-strength waster partnerships).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.3.4	Resource recovery for nitrogen, phosphorus, organic material, and possibly precious metals.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.3.5	Production and supply of different water qualities (e.g., local stormwater used for toilet flushing).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.3.6	Energy recovery in treatment and distribution systems (e.g., sewer geothermal [using heat exchange technology with sewer wastewater], smart meters, and hydrokinetic turbine applications).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.3.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.3.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.3.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #4

Technology: Advanced, distributed technology deployment. Capability to explore (pilot test) and deploy emerging technologies.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
2.3.4.1	Collection system used as an extension of treatment.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.4.2	Pilot projects (internally led) for testing promising technologies.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.4.3	Robust connection to research and development affiliates (e.g., foundations, university partnerships).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.4.4	Microfiltration equipment.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.4.5	Natural treatment systems to facilitate biological removal (e.g., enzymes or catalysts).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.4.6	Decentralized supply and treatment evaluated and performed on a watershed, water-quality basis.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
2.3.4.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.4.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
2.3.4.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:



3. Customer Satisfaction and Stakeholder Understanding & Support

SCOPE

This Management Area includes engagement and education efforts, customer feedback and response mechanisms, promotion and public relations, and participation in public events.

Level 1: Providing Adequate, Fundamental Services

PRACTICE STATEMENT #1

Community Engagement and Participation: Utility is a visible member of the community and plays an active role in community events.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
3.1.1.1	Participation in community events (e.g., staff organizing to volunteer at fundraising events).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.1.2	Community organizations or sports team sponsorships.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.1.3	Community event booth sponsorships.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.1.4	Volunteer for community events (e.g., organize watershed cleanups).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.1.5	Public information event sponsorships (e.g., Water Week).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.1.6	Utility open house events.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.1.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.1.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Public Relations, Education, and Promotion: Basic information about the utility is readily accessible and understandable to community members. Emergency response communications proactively prepared.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
3.1.2.1	Website includes information about major undertakings, and important documents are available.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.2.2	Periodic explanatory customer flyers.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.2.3	Clear, visible signs for construction activities.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.2.4	Multiple-language utility documents consistent with community profile.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.2.5	Emergency event public communications templates for media contacts (e.g., create standardized text for boil water notices).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.2.6	Annual consumer confidence/water quality report.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.2.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #3

Customer and Stakeholder Feedback and Response: Customer complaint and response mechanisms are in place.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
3.1.3.1	Customer complaint response time targets.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.3.2	Key community stakeholder opinion leaders list and schedule for outreach (e.g., phone call, informal meeting).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.3.3	Customer information system to store billing information, service requests, and all resolutions.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.3.4	Customer complaint receipt and response capability.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.3.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.1.3.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
3.1.3.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

Level 2: Optimizing Operations and Services

PRACTICE STATEMENT #1

Community Engagement and Participation: Community organizations and members engaged as full partners in utility plans and operations.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
3.2.1.1	Two-directional engagement with community members (e.g., through social media or advisory councils).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.1.2	Media approaches geared to needs of different generations.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.1.3	Community engagement forums to understand critical values, set utility goals, and review infrastructure alternatives.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.1.4	Public participation in the planning, budget, and performance management results processes.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.1.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.1.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Public Relations, Education, and Promotion: Focus efforts to increase community understanding of the utility, the benefits from its functions and services, and the requirements for operating sustainably. Utility is viewed as a leader and critical, trusted player in the community and citizens have a strong working knowledge and acceptance of the requirements for operating sustainably.



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
3.2.2.1	Value of water and wastewater services educational brochures and public education campaign.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.2.2	School outreach programs (e.g., K–12 classroom presentations or local school science program water-related curriculum).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.2.3	Electronic budget documents and comprehensive annual financial report (CAFR) on the utility's website, including a concise summary and guide to the key issues of the operating and capital components.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.2.4	Executive director role focused on external communication and relationship building.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.2.5	Annual utility performance report based on service level commitments and using common language and illustrative examples (e.g., "we saved 10,000 barrels of oil this year through our energy conservation efforts").	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.2.6	Annual plain language report on "Capital Facilities" for elected officials and the general public that describes the condition and plans for asset replacement and renewal.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.2.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #3

Customer and Stakeholder Feedback and Response: Feedback actively solicited and mechanisms for understanding and improving satisfaction and support are in place. Utility has established trust relationships with key community opinion leaders and stakeholders and maintains regular interactions to provide updates and stay abreast of external needs and interests.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
3.2.3.1	Customer satisfaction surveys.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.3.2	Customer feedback focus groups.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.3.3	Customer complaint management system to monitor and respond to complaints.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
3.2.3.4	Methods for incorporating customer feedback into change management processes.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.3.5	Regular regulator contact to establish a positive, proactive relationship (e.g., creating an understanding for the best allocation of funds).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.3.6	Focused outreach and information sharing with the financial community, particularly in the context of bond ratings.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.3.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.3.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.2.3.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

Level 3: Transforming Operations and Services for the Future

PRACTICE STATEMENT #1

Community Engagement and Participation: Utility is a catalyst to create networks among community departments, organizations, and stakeholders in support of watershed and community-wide sustainability improvements. The utility exerts leadership among community and regional stakeholders regarding watershed and water quality improvements.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
3.3.1.1	Watershed forum sponsorship for developing community-wide water sustainability and economic development strategy.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.3.1.2	Community event co-sponsorship with other community organizations related to water or watershed protection to increase the public visibility of water.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.3.1.3	Expanded utility public engagement scope to include full range of watershed participants.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.3.1.4	Coalitions with NGOs to leverage resources in support of utility, watershed, and community sustainability initiatives.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.3.1.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.3.1.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
3.3.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Public Relations, Education, and Promotion: Utility has positioned itself as a leader in community sustainability, and through this leadership it influences other community organizations to follow suit. Utility has an outreach strategy designed to support its efforts to market new services and products effectively.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
3.3.2.1	Stakeholder and customer surveys to test knowledge of utility-related issues and outreach and education efforts targeted to fill knowledge gaps.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.3.2.2	Risk management communication to the public in support of innovation (increase public tolerance for service failure or increased costs).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.3.2.3	Branded utility services and products.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.3.2.4	Utility culture includes clear articulation and communication as a part of the organization's brand.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.3.2.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.3.2.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.3.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #3

Customer and Stakeholder Feedback and Response: Acceptance of utility by customers and stakeholders as a valuable community resource that can and should be involved in the provision of services and products beyond clean and safe water in areas like economic development.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
3.3.3.1	Services marketing to prospective customers about how the utility could better serve them (e.g., businesses considering moving to the area, local producers of high-strength waste).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.3.3.2	New stakeholder engagement around nontraditional services (e.g., energy production).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.3.3.3	Economic corridor identification and focused planning and design for water and wastewater infrastructure support.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.3.3.4	Utility GIS asset leveraging to accomplish enterprise support for business development (i.e., map visualization/layering of building zones, future land use, "smartzones," enterprise zones, "HUBzones," census tracts and blocks, present and future transportation networks, etc.).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.3.3.5	Utility marketing and graphic design asset leveraging to support municipal government's development of a community guide promoting the benefits to business of locating in a sustainable community that EUM supports.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.3.3.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.3.3.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
3.3.3.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:



4. Employee & Leadership Development

SCOPE

This Management Area includes organizational structure, workplace culture, institutional knowledge, succession planning, and employee development opportunities.

Level 1: Providing Adequate, Fundamental Services

PRACTICE STATEMENT #1

Workplace Culture: Clarity is established for all job responsibilities and functions. Sufficient workforce, with necessary training, is in place in all staff functions.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
4.1.1.1	Written job requirements and descriptions for all staff functions.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.1.1.2	Organizational roles chart available and up-to-date.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.1.1.3	Annual performance reviews with written feedback.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.1.1.4	Periodic employee celebrations of organizational performance success (team accomplishments).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.1.1.5	Formal ethics policy.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.1.1.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.1.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.1.1.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Recruitment, Retention, and Succession: Needed skills and expertise are documented, used to screen applicants, and effectively communicated to new hires; reasons for employee turnover are understood.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
4.1.2.1	Interview process with standardized questions tailored to the position.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.1.2.2	Employee turnover statistics tracked and evaluated.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
4.1.2.3	Formalized and standardized new hire orientation template listing materials to provide, key topics to review, and skills to impart.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.1.2.4	Critical position identification and characterization for recruitment purposes.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.1.2.5	Equal opportunity hiring policy in place to facilitate workforce diversity.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.1.2.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.1.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.1.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #3

Development Opportunities: Program in place to support and enable staff to acquire and maintain required professional certifications.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
4.1.3.1	Certification needs and opportunities identification and inclusion in annual budget.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.1.3.2	Operator training and education reimbursement, and leave allowance for needed certifications.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.1.3.3	Merit pay increases for acquired certifications.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.1.3.4	Staff cross-training across functions and departments to augment system resiliency.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.1.3.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.1.3.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.1.3.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:



Level 2: Optimizing Operations and Services

PRACTICE STATEMENT #1

Workplace Culture: Performance expectations are explicitly established and tied to compensation. Employees are encouraged to provide ideas and feedback to improve operational and administrative performance. Desired organizational culture is clearly defined and communicated to employees.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
4.2.1.1	Written job descriptions with explicit, systematic performance evaluation metrics and standards.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.1.2	Skill level and expertise requirement articulation with link to pay stratification/raises.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.1.3	Employee suggestions for improvement program with management responsiveness.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.1.4	Employee awards and recognition program linked to creative thinking and continual improvement efforts related to achieving organizational goals.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.1.5	Employees encouraged to make decisions and take independent actions that fall within organizational guidelines.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.1.6	Employees engaged in annual organizational goal and long-term strategic planning processes.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.1.7	Executive management informal workforce engagement (e.g., treatment plant walk-through and regular opportunities to meet with staff at all levels).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.1.8	Employee development plans based on performance and skill evaluations, as well as employee professional goals.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.1.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.1.10	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.1.11	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Recruitment, Retention, and Succession: Current and future workforce requirements are understood, with proactive efforts made to attract and retain highly qualified staff.



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
4.2.2.1	Exit interviews to understand reasons for separation and to identify opportunities for improving employee motivation and loyalty.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.2.2	Formal retention management plan used to help identify the most critical employees to retain.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.2.3	Full on-boarding program for new hires: resources, communications, organizational culture, training, welcoming activities, and guides (mentor).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.2.4	Workforce demographics documentation and retirement projections (incorporated into succession and recruitment plans).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.2.5	Current workforce skills inventory, future workforce skills projections, and needed skills training.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.2.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #3

Development Opportunities: Explicit professional development program for staff and management is in place, including incentives for personal improvement and activities designed to increase the “bench depth” of staffing. A structured training program establishes ongoing requirements and opportunities for professional development, and staff is encouraged to engage in broader water sector professional development opportunities.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
4.2.3.1	Tuition reimbursement program to incentivize professional development consistent with organizational needs and goals.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.3.2	Staff rotation to other utilities or functions within the utility for cross-training and mentoring.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.3.3	Critical workforce competencies analyses by management (with subsequent targeted training programs emphasizing use of continuous improvement tools).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.3.4	Broad-based leadership and management skills training conducted annually for formal and informal leadership positions and opportunities.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
4.2.3.5	Additional leave time (especially in leadership roles) to promote membership in professional organizations.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.3.6	Explicit training program for all staff covering core organizational functions: managerial and supervisory, professional/technical, business practices, safety, compliance, IT systems, customer service, interpersonal skills, and executive development.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.3.7	Formal leadership training focusing on: vision, mission, values; organizational culture; human resource policies and bargaining unit agreements; interpersonal skills; conflict resolution; problem solving and decision making; budgeting and budget management; performance appraisal; leadership; diversity; and grievance.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.3.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.3.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.2.3.10	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

Level 3: Transforming Operations and Services for the Future

PRACTICE STATEMENT #1

Workplace Culture: Performance management system is in place that explicitly aligns employee incentives, compensation, and performance expectations with the organization's mission, objectives, and business plan. A strong participatory culture exists with staff members, who are encouraged to share ideas and take measured risks. A culture of innovation, collaborative development, and active employee engagement is established and actively enhanced by the entire workforce.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
4.3.1.1	Standing collaborative forums with collective bargaining units, as appropriate (all employees included).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.3.1.2	Individual employee annual performance plans with direct links to business plan objectives. (The plan review is conducted several times each year between the employee and supervisor).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.3.1.3	Goal-sharing bonus programs for employees that reward employees for meeting their performance goals, which also help the organization meet its goals.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
4.3.1.4	Organizational sustainability principles, commitments, and expectations incorporated into day-to-day operations.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.3.1.5	Budget support for "innovation proposals" (removing barriers to creative thinking and developing systems for failure tolerance).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.3.1.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.3.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.3.1.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Recruitment, Retention, and Succession: An active commitment to attracting and developing new employees exists, as well as the capacity to understand and track employee satisfaction and engagement. Critical skill and expertise requirements are understood and plans are in place to ensure their timely replacement. Skills and expertise requirements are actively updated to keep pace with operational innovations and business strategy requirements. Employee motivation and retention systems use multiple avenues to achieve objectives.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
4.3.2.1	Education and recruiting partnerships (e.g., internship programs) through ongoing relationships with high schools, community colleges, and universities.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.3.2.2	Mission and vision incorporated into branding efforts to support recruiting and retaining high-quality talent.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.3.2.3	"Pay for performance" systems to provide incentives for high-performing staff. (The process used is well understood by staff and is tied to goal attainment and specific performance criteria).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.3.2.4	Annual employee satisfaction surveys to identify gaps and opportunities for training and employee development.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.3.2.5	Job satisfaction focus groups with management to address issues identified in annual employee survey. (Solutions are determined through a collaborative approach between management and the workforce).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.3.2.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
4.3.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.3.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #3

Development Opportunities: Establish a plan for cultivating the expansion of staff skills and expertise consistent with altered operating and technology environments relative to “utility of the future” operational demands.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
4.3.3.1	Friendly utility-to-utility competition with neighboring systems in support of voluntary self-improvement programs.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.3.3.2	Integrated workforce development curriculums.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.3.3.3	Alternative management skills training (e.g., collaborative partnership development).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.3.3.4	Emerging opportunities for skill-building collaboration between staff and management. (Employees work in conjunction with supervisors to develop and implement plans to build skills needed to support emerging opportunities that the organization faces).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.3.3.5	New employee skill set sharing (e.g., identifying new skill sets and sharing them through coaching).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.3.3.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.3.3.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
4.3.3.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:



5. Financial Viability

SCOPE

This Management Area includes rates that reflect the full cost of service, accounting practices, fees, reserves, debt management, and the creation of additional revenue streams.

Level 1: Providing Adequate, Fundamental Services

PRACTICE STATEMENT #1

Accounting, Auditing, and Financial Reporting: Controls and timely financial statements (issued as part of a CAFR) are in place reflecting Generally Accepted Accounting Principles with internal and independent audits conducted to ensure the system’s integrity.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
5.1.1.1	Policies on required level of working capital.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.1.2	Targets for days of operating expense coverage.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.1.3	Accounting policies and procedures, formally documented and consistently applied, to provide for the reporting of fraud or abuse and questionable accounting or auditing practices.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.1.4	Policies for internal control procedures over financial management (periodically evaluated with auditors).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.1.5	Policies and procedures on how to account for disaster-related reimbursable costs, and methods to track emergency incident expenses to facilitate cost reimbursement activities.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.1.6	Policies and procedures on managing capital assets and on capitalization thresholds.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.1.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.1.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Budget and Fiscal Policy: Operational and capital funding needs understood and translated into rate and fee requirements, with a strategy and policies in place to maintain rates and fees at necessary levels.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
5.1.2.1	Rate studies (to link rates to system needs).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.2.2	Built-in, gradual, annual rate increases.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.2.3	Operating reserve fund.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.2.4	Financial policy development (includes financial planning policies, revenue policies, and expenditure policies), adoption, annual review, and communication to the governing board.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.2.5	Explicit budget process and forecasts (used when preparing the utility's budget).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.2.6	Procedure for program expenditures that exceed an established limit from the approved budget.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.2.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #3

Debt Management: Annual budget accommodates financing capital reserves at levels needed to support capital replacement. Debt payments are made on a timely and cost-effective basis.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
5.1.3.1	Capital reserve fund.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.3.2	Comprehensive written debt management policy that addresses debt limits, debt structuring practices, debt issuance practices, debt management practices, and using derivatives.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.3.3	Policy and procedures to ensure fiduciary responsibilities.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
5.1.3.4	Policy and procedures for investing bond proceeds to ensure that legal and regulatory requirements are met, fair market value bids are received, and issuer objectives for various uses of proceeds are attained.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.3.5	Capital plan financial feasibility analysis to identify financing methods and funding sources, and to assess funding availability and constraints.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.3.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.3.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.3.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #4

Procurement and Inventory: Clarity and controls are established for maintaining efficient and consistent purchasing and inventory management.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
5.1.4.1	Purchasing policy that standardizes procedures for ordering, accepting, or rejecting materials and services.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.4.2	Operating inventory of supplies (defined, maintained, and updated to meet the needs of the utility operations).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.4.3	Policy that determines when the procurement of goods and services requires a formal contract.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.4.4	Emergency procurement policy to allow the expenditure of funds to support response and recovery activities after an emergency.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.4.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.4.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.1.4.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:



Level 2: Optimizing Operations and Services

PRACTICE STATEMENT #1

Accounting, Auditing, and Financial Reporting: Fiscal performance expectations are created with policies, practices, and targets in place to drive performance, create accountability, and support transparency.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
5.2.1.1	Formal audit committee to provide independent review and oversight of the financial reporting process, internal controls, and connect with independent auditors.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.1.2	Policy for level of unrestricted fund balance that should be maintained. (The target is analyzed and set based on particular characteristics and criteria of the utility and includes: transfers, cash cycles, customer profile, control over revenue, asset age and condition, volatility of expenses, control over expenses, and debt position).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.1.3	Policy for target level of working capital. (The target is analyzed and set based on particular characteristics and criteria of the utility and includes: transfers, cash cycles, customer profile, control over revenue, asset age and condition, volatility of expenses, control over expenses, and debt position).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.1.4	Financial statements with management's department-level discussion and analysis.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.1.5	Mechanism to permit the confidential, anonymous reporting of concerns about fraud or abuse and questionable accounting or audit practices to the appropriate responsible parties.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.1.6	Budget to actual comparisons in the audited basic financial statement.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.1.7	Formal internal audit function.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.1.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.1.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.1.10	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:



PRACTICE STATEMENT #2

Budget and Fiscal Policy: Cost of service is understood with rates and fees established accordingly, while revenue needs over the mid- to long-term are understood and rate impacts to customers are explicitly managed.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
5.2.2.1	Payment assistance programs for disadvantaged households.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.2.2	Cost of service studies.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.2.3	Rate model to support current and future rate needs determinations.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.2.4	Affordability criteria (and tracking the impact of bills on customers), with appropriate considerations for disadvantaged households.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.2.5	Regularly monitor and periodically update major revenue and expenditure that extends at least three to five years beyond the budget period.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.2.6	Separate rates for internal and external customers for designated goods or services according to financial objectives, equity, efficiency, and administrative feasibility.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.2.7	Long-term financial plan, which looks at least five to ten years into the future; considers all appropriated funds; and is updated based upon debt position and affordability analysis, with strategies to achieve and maintain financial balance with a scorecard of key indicators of financial health that is visible to the public.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.2.8	Payment assistance programs for disadvantaged households.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.2.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.2.10	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.2.11	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #3

Debt Management: Policies and procedures are in place to ensure effective debt management, maintenance of a competitive bond rating, and capital needs are understood and addressed for the mid- to long-term.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
5.2.3.1	Debt-to-equity targets for capital spending.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.3.2	Strategic financial plans to avoid rate spikes.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.3.3	Strong master bond resolutions, such as covenants, which prescribe coverage ratios.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.3.4	Proactive bond refund evaluations (by bond counsel and financial advisors) to achieve interest cost savings; remove or change burdensome bond covenants; or restructure the stream of debt service payments to avoid default, or an unacceptable tax or rate increase.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.3.5	Level of disclosure to bond holders' analysis (addressing the utility's pension funding obligations) with input from legal counsel and financial advisors.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.3.6	Bond proceed investment risk analysis (to identify actions to mitigate risks).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.3.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.3.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.3.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #4

Procurement and Inventory: Ability to track specific utility property location and usage is in place and standardized processes for disposition of property created.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
5.2.4.1	Property disposal procedures.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.4.2	Procurement of property and equipment records (including land, buildings, expendable items, installed property, uninstalled property, equipment, vehicles, and personal wear items owned by or assigned to the agency above a specified value).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.4.3	Perpetual inventory system.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.4.4	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
5.2.4.5	Alternative or Additional Practice:	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.2.4.6	Alternative or Additional Practice:	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

Level 3: Transforming Operations and Services for the Future

PRACTICE STATEMENT #1

Accounting, Auditing, and Financial Reporting: Fund balances are supported by targets, regular monitoring, and actions taken to maintain expected balances over time. Full transparency of financial performance and accounting practices is provided.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
5.3.1.1	Fund balance replenishment rate targets.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.1.2	Aggregated or consolidated presentations to supplement the CAFR (customized for a broad general audience to understand the utility's financial position in an objective manner).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.1.3	Web-accessible financial statements.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.1.4	Systematic effort to annually track and manage controlled capital assets at the department level.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.1.5	Physical inventory of tangible capital assets (periodically performed and all assets are accounted for, at least on a test basis, no less than once every five years).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.1.6	Alternative or Additional Practice:	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.1.7	Alternative or Additional Practice:	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.1.8	Alternative or Additional Practice:	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:



PRACTICE STATEMENT #2

Budget and Fiscal Policy: Rates and fees are viewed as more than a means to fund operations, with focus emerging on using rate and fee coverage and structures to influence customer and community behavior in line with utility sustainability objectives. Cost-sharing strategies for a range of service provisions have been explored, and those making operational and financial sense adopted. Revenue strategy incorporates an effort to diversify utility revenue sources beyond those associated with conventional treatment services.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
5.3.2.1	Conservation rate structures.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.2.2	Process for designing other post-employment benefits to ensure sustainable funding approach is in place.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.2.3	Full cost of providing service estimates (calculated and considered in the basis for setting charges and fees—full cost incorporates direct and indirect costs including design, O&M, overhead, replacement, and charges for using capital facilities).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.2.4	Personnel tracking system (to accurately project budget and payroll based on the estimate of budgeted positions for the year that includes consideration of vacancy adjustments, collective bargaining, inflation, and compensation).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.2.5	Internal service rates (established for operations such as information technology, payroll, motor pool budgeting, legal, accounting, and human resources).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.2.6	Intellectual property development and marketing (e.g., watershed analysis models).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.2.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #3

Debt Management: Capital investment and debt management strategy adopt an explicit risk management posture focusing on managing investments to preserve and create new options in the future. Capital funds are created and managed to provide resources for technology innovation and partnerships are established to attract capital and risk share.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
5.3.3.1	Avoiding over-investment in capital strategy. (Remain nimble by providing flexibility to take advantage of new technologies as they emerge, as well as managing for uncertainty).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.3.2	Investor relations program (to provide full and comprehensive disclosures of annual financial, operating, and other significant information in a timely manner consistent with federal, state, and local laws).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.3.3	Innovative technology deployment funds (specifically set aside for this purpose).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.3.4	Infrastructure and technology cost- and risk-sharing mechanisms (e.g., public-private partnerships for biogas development).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.3.5	Investor relations information dissemination (provided on website to the municipal securities market regarding utility debt, financial condition, and other related information).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.3.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.3.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.3.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #4

Procurement and Inventory: Capability is established to support disclosure requirements associated with asset value and depreciation over time. Procurement activities are integrated with the utility's sustainability commitments to ensure purchasing is aligned with utility sustainability performance expectations.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
5.3.4.1	Financial reporting procedure for capital and infrastructure assets consistent with Governmental Accounting Standards Board Statement Number 34	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.4.2	Property management system (well-structured for managing property owned or used by the agency that provides for identifying	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.4.3	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
5.3.4.4	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
5.3.4.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:



6. Infrastructure Strategy and Performance

SCOPE

This Management Area relates to the management of infrastructure and other physical assets.

Level 1: Providing Adequate, Fundamental Services

PRACTICE STATEMENT #1

Infrastructure O&M: Maintenance is undertaken as performance deficiencies dictate, backed up by an explicit maintenance management system for assets above and below ground.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
6.1.1.1	Work orders linked to asset inventory.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.1.1.2	Ongoing training and certification/licensing requirements for maintenance staff.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.1.1.3	Record retention of asset maintenance performed (e.g., work order system in place to keep maintenance records).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.1.1.4	Estimated useful life and depreciation policy (in accordance with generally accepted accounting principles).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.1.1.5	Manufacturer's recommended maintenance regimens followed for all equipment.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.1.1.6	Emergency maintenance procedures.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.1.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.1.1.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.1.1.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Asset Management: Asset management program basics are understood and recognized as important for EUM. Assets are inventoried with information stored in a standalone database.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
6.1.2.1	Critical infrastructure and assets inventory (includes original cost, with new assets recorded at the time of purchase and retired assets removed from inventory).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
6.1.2.2	Critical infrastructure asset mapping (e.g., GIS-located mains, hydrants, valves, services, and tanks).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.1.2.3	Photographic documentation of assets to compare baseline conditions to pictures taken after the asset is impacted during an emergency event.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.1.2.4	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.1.2.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.1.2.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

Level 2: Optimizing Operations and Services

PRACTICE STATEMENT #1

Infrastructure O&M: Proactive, risk-based maintenance, repair, and replacement are used and technology and equipment standardization efforts are undertaken with specific actions to improve the efficiency of infrastructure repair and rehabilitation.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
6.2.1.1	Level of service and planned maintenance targets (with performance measures in place and tracked as part of the budget process).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.2.1.2	Collection system line inspection and cleaning (for sanitary sewer overflow prevention).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.2.1.3	Joint maintenance partnerships with other systems.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.2.1.4	Root cause analysis for failures used to drive maintenance of asset decisions.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.2.1.5	Underground asset replacement or restoration innovative solutions or restoration (i.e., water main relining, ice pigging, bursting).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.2.1.6	Critical spare parts inventory and all equipment either in operation or in fully ready standby mode.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.2.1.7	Visible SCADA and GIS to enhance O&M.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.2.1.8	Underground replacement/repair coordination with other projects (e.g., street paving).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
6.2.1.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.2.1.10	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.2.1.11	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Asset Management: Asset management is adopted as a core utility business function, guided by explicit service levels. Complete asset inventory and asset condition assessment is combined with the capability to make infrastructure repair and replacement decisions on a managed risk basis.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
6.2.2.1	Regular asset performance assessments.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.2.2.2	Asset full life-cycle cost estimates and depreciation studies to determine expected life cycles. Program to replace underground infrastructure on either a regular cycle (e.g., 100-year life cycle) or at the asset depreciation rate.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.2.2.3	Hydraulic modeling analysis for the design of new and replacement infrastructure.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.2.2.4	Condition assessment, monitoring, and failure analysis of infrastructure assets.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.2.2.5	Service interruption tracking conducted relative to established levels of service targets.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.2.2.6	Short-term and long-term asset management and capital plan supported by commitments for necessary funding.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.2.2.7	Condition/functional performance standards defined for each type of capital asset.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.2.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.2.2.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.2.2.10	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

Level 3: Transforming Operations and Services for the Future

PRACTICE STATEMENT #1

Infrastructure O&M: Commitment to utility and community sustainability is explicitly incorporated into infrastructure investment and management efforts. Collaborative partnerships are sought and used to improve operational efficiency, manage risk, and improve resiliency.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
6.3.1.1	Infrastructure project rating systems (e.g., Institute for Sustainable Infrastructure).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.3.1.2	Alliance partnerships for infrastructure development. (Avoid low-bid constraints).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.3.1.3	International Organization for Standardization (ISO) certification for asset management.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.3.1.4	Innovative solutions to leverage capital markets for infrastructure sustainability (e.g., equipment manufacturer partnerships, public-private contractual arrangements, design build operate).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.3.1.5	SCADA integrated with Computerized Maintenance Management System and GIS Enterprise system for optimizing asset management (e.g., tie maintenance and repairs to system assets).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.3.1.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.3.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.3.1.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:



PRACTICE STATEMENT #2

Asset Management: Capital and natural resource asset diversification are used to manage risks and boost resiliency, while collaborative partnerships are used to improve efficiencies.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
6.3.2.1	Cluster asset management partnerships (implementing identical asset management at multiple neighboring utilities and sharing staff to maintain program support).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.3.2.2	Multi-sector asset management relationships (e.g., with transportation sector).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.3.2.3	Options purchasing for future, diversified source water supply (e.g., taking an option on the future purchase of a natural water storage source, like a quarry).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.3.2.4	Fully developed enterprise asset management system.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.3.2.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.3.2.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
6.3.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:



7. Enterprise Resiliency

SCOPE

This Management Area includes risk assessments, safety and security measures, all hazards disaster planning, emergency response and recovery, cybersecurity, business risk planning (including interdependencies with other services and utilities, knowledge loss, and financial risks), and continuity of operations planning.

Level 1: Providing Adequate, Fundamental Services

PRACTICE STATEMENT #1

Risk Assessment and Reduction Plan: Risks to high-consequence assets are identified and reduced.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
7.1.1.1	Risk assessment for high-consequence assets (i.e., those that would result in high public health or economic impacts if damaged).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.1.2	Risk reduction plan containing countermeasures with prioritized list of mitigation projects (i.e., near- or long-term capital improvement projects).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.1.3	Low-cost or near-term process improvement projects (e.g., fences and barriers around key utility facilities and infrastructure; doors and gates routinely locked; chemicals stored safely and securely, and properly disposed of; video cameras, especially on gates and sensitive areas within the treatment plant, such as those where chemicals are stored; computers and network systems protected with passwords, and passwords changed routinely; abnormal conditions or activities reported by personnel; employee training in basic workplace safety practices and to actively monitor for abnormal or threatening situations and activities).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.1.4	Cyber security measures (e.g., virus protection and firewall programs on all computers; electronic files and network systems regularly backed up).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.1.5	Resilience measures (e.g., flood threats understood and practical mitigation options identified to protect critical assets).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.1.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.1.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Emergency Response Planning: Emergency Response Plan is developed containing basic policies and procedures.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
7.1.2.1	Basic system information documentation (e.g., system maps and drawings) stored in secure on-site and off-site locations.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.2.2	Emergency roles and responsibilities identification for utility personnel and local response partner agencies (e.g., law enforcement, fire, laboratories, public health agencies, and emergency management agencies).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.2.3	General communication procedures (e.g., who activates the plan, order of notification, and contact information).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.2.4	Training and exercise plan (to identify strategic goals and priorities for training and exercises).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.2.5	Key utility response personnel training (in Incident Command System (ICS) and a plan to implement ICS during an emergency).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.2.6	Critical customer needs and requirements identification and associated response protocols.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.2.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #3

Recovery and Mitigation: General awareness of mitigation and recovery activities, projects, and funding is in place for efficient system and services restoration.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
7.1.3.1	Local and state officials identified that would be involved in recovery (e.g., local community planners and State Hazard Mitigation Officers).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
7.1.3.2	Local and state official coordination (e.g., local community planners and State Hazard Mitigation Officers).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.3.3	Understand options for resilient projects, concepts, and strategies, such as flood-proofing and relocating at-risk assets.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.3.4	Awareness of the required documentation and application processes for federal funding programs.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.3.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.3.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.1.3.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

Level 2: Optimizing Operations and Services

PRACTICE STATEMENT #1

Risk Assessment and Reduction Plan: Increase capacity to understand and detect threats to the system, risks to all major assets are identified and reduced, and all hazards risk management needs are fully integrated into broader utility planning and investment activities.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
7.2.1.1	Risk assessment for all major assets (e.g., physical and cyber security, and business activities), including assessments of consequences and failure potential.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.1.2	Risk reduction plan with a prioritized list of risk mitigation projects that, if fully implemented, would achieve acceptable risk levels for all major assets (e.g., hardening for facilities vulnerable to security threats and natural disasters; electronic files and network systems regularly backed up; chemical delivery control; intruder detection systems).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.1.3	Risk reduction plan integration with long-range and capital investment planning for other projects.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.1.4	Understanding regional environmental risks (e.g., fires, floods, earthquakes, tornados) and their relationship to utility operations and infrastructure (updated and maintained as current).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
7.2.1.5	Identification and analysis of a wide range of contaminants and their properties (e.g., through the Water Contamination Information Tool).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.1.6	Continuous on-line instrumentation for establishing trends and detecting abnormal occurrences (e.g., for pH and chlorine) in the water distribution system.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.1.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.1.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Emergency Response Planning: The Emergency Response Plan is enhanced with additional capabilities and supported through more structured relationships with potential response partners.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
7.2.2.1	Alternate water source identification and alternate water supply distribution plans.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.2.2	Mutual aid agreements (e.g., partnerships with neighboring systems for emergency response planning, participation in Water and Wastewater Agency Response Network (WARN), membership in an integrated nationwide network of laboratories such as the Water Laboratory Alliance).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.2.3	Risk communication procedures for issuing messages during an emergency.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.2.4	Business continuity plan (for maintaining solid operations—financially, managerially, and functionally—after any incident).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.2.5	Routine joint training with neighboring utilities and response partners (e.g., full-scale exercises, mutual aid response/requests).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.2.6	Utility representation in local Emergency Operations Center.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.2.7	Response resources organized according to the AWWA resource typing manual.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
7.2.2.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.2.10	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #3

Recovery and Mitigation: Implementation of mitigation and recovery activities, projects, and funding is in place.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
7.2.3.1	Recovery plan (developed through collaborations with local and state officials that would be involved in recovery, including establishing clear roles and responsibilities for key partners such as local community planners and State Hazard Mitigation Officers).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.3.2	Retainer contracts with consultants and backup equipment acquisition.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.3.3	Business preparedness and continuity plan (developed, tested, and maintained to continue basic business operations during and immediately after disruptive events).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.3.4	SOPs for documenting pre- and post-disaster condition of key assets applying for the federal funding program.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.3.5	Key resilient projects, concepts, and strategies implementation, such as flood-proofing and relocating assets at risk from extreme weather events.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.3.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.3.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.2.3.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

Level 3: Transforming Operations and Services for the Future

PRACTICE STATEMENT #1

Risk Assessment and Reduction Plan: Emergent risks to all major assets are consistently addressed. Proactive and specialized shifts in operational procedures and updated capital investment criteria are changed when necessary.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
7.3.1.1	Monitor/scan proactively for modern and emergent threats, and real-time monitoring for threat progression (e.g., watershed monitoring networks that support progressive storm alert systems).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.3.1.2	Integrated Water Quality Surveillance and Response System addressing potential contamination within the distribution system.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.3.1.3	Regular research on emerging trends that could pose new threats to the system, including changing weather patterns (i.e., climate change risk assessment integrated into existing risk assessment and reduction plan) and contamination threats.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.3.1.4	Diversification and redundancy for critical supply, distribution, and treatment functions (e.g., emergency interconnects or bulk loading stations).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.3.1.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.3.1.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.3.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Emergency Response Planning: Emergency Response Plan is enhanced with incident-specific Emergency Action Procedures (EAPs) for responding to a specific type of incident, and enhanced capability to test, exercise, and to refine the Emergency Response Plan is in place. Ability to respond to a full suite of unexpected events by implementing a comprehensive Emergency Response Plan.



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
7.3.2.1	Specific EAP's for incidents, including the following: <ul style="list-style-type: none"> Severe weather response (e.g., snow, ice, temperature, lightning, flooding, hurricane, tornado) Fire response Electrical power outage response Water supply interruption response Earthquake response Disgruntled employee response (e.g., workplace violence) 	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.3.2.2	Reviewed and updated utility response plans based on training and exercise activities (e.g., operations-based drills, functional and full-scale exercises), operational changes, and lessons learned from emergencies	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.3.2.3	Capability to respond to mutual aid requests in self-sufficient manner, including cross-training staff to support neighboring utilities in the event of a mutual aid request.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.3.2.4	Integrated consequence management plans as part of a Water Quality Surveillance and Response System for responding to contamination within the distribution system.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.3.2.5	Interstate mutual aid request response plan (through Emergency Management Assistance Compact).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.3.2.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.3.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.3.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #3

Recovery and Mitigation: Ability to recover from a full suite of incidents through implementation of comprehensive mitigation and recovery activities, projects, and funding is in place.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
7.3.3.1	Prepared to conduct long-term public health and environmental health monitoring after a contamination incident.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.3.3.2	Advanced contracts and agreements to support continuity plan implementation when needed.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.3.3.3	Detailed decontamination decision-making framework (established for remediation/cleanup).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
7.3.3.4	Remediation techniques and remedial process for treatment works and contamination distribution/collection systems implementation ability.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.3.3.5	Climate adaptation plan prepared with internal utility and community partners (climate adaptation measures, such as increasing water supply storage capacity for droughts, establishing alternative power supply, and monitoring flood and event drivers).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.3.3.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.3.3.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
7.3.3.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:



8. Water Resource Sustainability

SCOPE

This Management Area covers the utility’s role in managing and planning water supply and the sustainable management of water resources, including water reliability, watershed health, water resource recovery, and watershed partnerships.

Level 1: Providing Adequate, Fundamental Services

PRACTICE STATEMENT #1

Water Reliability: Essential elements of future water demand and wastewater capacity (e.g., population growth, industry production) are understood and factored into utility strategic and capital planning.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
8.1.1.1	Demand forecasting (e.g., population change and existing per capita water utilization rates).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.1.1.2	Pollutant restriction ordinances (to prevent unsuitable pollutants entering water resources through ordinance enforcement).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.1.1.3	Level of service targets (based on historical use of water - equivalent residential connection - wastewater, and re-use - equivalent irrigation connection) for use in planning for future adequacy.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.1.1.4	Service area definition.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.1.1.5	Source water assessment and protection program. (Identify potential sources of contamination).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.1.1.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.1.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.1.1.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Supply and Demand Management: Existing water sources treatment and distribution is optimized.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
8.1.2.1	Real water loss tracking and management.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.1.2.2	Peak hour demand management (e.g., treat water during off-peak hours).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.1.2.3	Water conservation plan.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.1.2.4	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.1.2.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.1.2.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

Level 2: Optimizing Operations and Services

PRACTICE STATEMENT #1

Water Reliability: Utility prepared to meet the water or sanitation needs of its customers for the reasonable future.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
8.2.1.1	Single scenario supply and demand forecasting and analysis.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.2.1.2	Demand management plan (in place to influence short- and mid-term timing and efficiency of use).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.2.1.3	Drought management plan that triggers actions for rationing or other demand reduction measures.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.2.1.4	Ecological uses forecasts.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.2.1.5	Water re-use plan implementation with regional water and wastewater utilities.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.2.1.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.2.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.2.1.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Supply and Demand Management: Utility has a conservation strategy covering all water users in its system and has initiated water re-use initiatives. Water use optimization is integrated into utility operational strategy, with fundamental water conservation and re-use methods implemented.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
8.2.2.1	Low-flow toilets and faucets incentives for customer water conservation.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.2.2.2	Integrated water conservation and re-use master plan (applied to water and wastewater infrastructure, as well as long-term planning).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.2.2.3	Incentives for low water demand landscaping.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.2.2.4	Water conservation and re-use tactics for all facilities and infrastructure, and encouraged for customers (e.g., provide discounted rain barrels to customers).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.2.2.5	Plan implemented, including specific targets, for water recycling/re-use.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.2.2.6	Water re-use for landscaping at utility facilities and at other municipal properties.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.2.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.2.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.2.2.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:



Level 3: Transforming Operations and Services for the Future

PRACTICE STATEMENT #1

Water Reliability: Utility has an integrated, long-term water resources management approach that has addressed the potential for uncertainty in supply and demand conditions and effectively balances commercial, residential, and ecological needs. Utility is an advocate for and supporter of regional, integrated water management (e.g., a “One Water” approach), stewardship initiatives, and has an integrated water and energy long-term management approach.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
8.3.1.1	Long-term water supply and demand analysis that considers long-term historical supply trends (e.g., 100+ years) and uses multiple demand and supply scenarios to identify robust implementation options.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.3.1.2	Watershed-based plan to address all water resource demands (commercial, industrial, residential, and ecological).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.3.1.3	Watershed council that integrates urban, agricultural, industrial users for optimized water allocation.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.3.1.4	Leadership and advocacy for a sustainability master plan with coordinated objectives for water-energy actions/efficiencies (e.g., use high-energy water treatment to mitigate water scarcity risk, such as desalinization, or minimize the use of energy to conserve natural resources and reduce greenhouse gas emissions).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.3.1.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.3.1.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.3.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Supply and Demand Management: Utility leads or participates in studies and planning for developing and estimating conservation potential of utilities over a defined planning period (e.g., 20 years).

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
8.3.2.1	Local or regional utility and regulator partnerships to estimate indoor and outdoor conservation potentials by customer type.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
8.3.2.2	Utility account-level information aggregation to develop prioritized water conservation initiatives/plans based on potential water savings and costs associated with conservation.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.3.2.3	Emerging treatment technology utilization for wastewater treatment and low-energy solutions for water reclamation and energy-focused resource production.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.3.2.4	Watershed-based permitting strategy participation or advocacy to enable water quality trading and market credits (e.g., advanced wetlands mitigation credits), and water rights trading.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.3.2.5	Nontraditional partnerships with rivers, oceans, or agricultural organizations to identify re-use opportunities.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.3.2.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.3.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
8.3.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:



9. Community Sustainability

SCOPE

This Management Area covers the utility’s role in social, economic, and environmental impacts to its community. This includes economic development, community-wide resilience, support for disadvantaged households, and overall community sustainability and livability.

Level 1: Providing Adequate, Fundamental Services

PRACTICE STATEMENT #1

Social Stewardship: Utility operations, particularly siting and construction, are managed to minimize social impacts on the community.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
9.1.1.1	Preconstruction notifications to households.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.1.1.2	Construction hours of operation policy considerate of household needs.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.1.1.3	Right-of-way procedures to provide for household access.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.1.1.4	Utility staff teams support community fundraising events.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.1.1.5	Truck traffic management to reduce community impacts.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.1.1.6	Riverfront access provision (e.g., to the extent operations impact access to, for example, a riverfront, is there an opportunity to create access for recreation or other public use?).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.1.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.1.1.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.1.1.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Economic Stewardship: Utility operations, particularly siting and construction, are managed to minimize economic impacts on the community.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
9.1.2.1	Preconstruction notifications to local business.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.1.2.2	Customer access to businesses in construction areas carefully accommodated.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.1.2.3	Host community benefit program. (Provide for lower utility rates for communities that host treatment infrastructure).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.1.2.4	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.1.2.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.1.2.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #3

Environmental Stewardship: Utility is focused on ensuring compliance across all regulatory areas to ensure a solid foundation for limiting environmental impacts of operations.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
9.1.3.1	Environmental impacts review of regular utility operations and construction projects.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.1.3.2	Annual state of watershed data review (to maintain awareness of ecosystem trends).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.1.3.3	Sewer system maintenance to reduce flooding and backup potential.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.1.3.4	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.1.3.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.1.3.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion



Level 2: Optimizing Operations and Services

PRACTICE STATEMENT #1

Social Stewardship: Utility conducts operations with a view for improving community social conditions.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
9.2.1.1	Women- and minority-owned business contracting policies.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.1.2	Social impact criteria inclusion in project selection methods (e.g., degree of minority community impact).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.1.3	Citizens' new facility siting committee.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.1.4	Workforce diversification policies.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.1.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.1.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Economic Stewardship: Utility conducts operations with a view for enhancing local economic opportunity.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
9.2.2.1	Utility finance officer's engagement in utility efforts to think and act sustainably.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.2.2	Local materials and services sourcing policy, with targets for volume of services and products sourced from qualified local firms.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.2.3	Local and regional community and economic development planning participation.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.2.4	Supplemental environmental projects (undertaken in lieu of paying noncompliance fines).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.2.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.2.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
9.2.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #3

Environmental Stewardship: Utility operations and investments use techniques that enhance environmental and ecological parameters local to its facilities and operations.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
9.2.3.1	Tree planting along utility right-of-way areas, recognizing constraints such as the need to manage for possible tree root intrusion to underground pipes.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.3.2	Discharge management to aid local fish populations.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.3.3	Well-defined sustainability requirements (established and tracked for all key products and services).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.3.4	Pollution prevention plan.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.3.5	Low or no carbon fuels for vehicle fleet.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.3.6	Water re-use for environmental protection purposes (e.g., to cultivate native or endangered plant species).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.3.7	Annual sustainability report to show commitment to and performance on utility-related sustainability targets (e.g., greenhouse gas reduction targets and renewable energy utilization targets).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.3.8	Recycled materials and product purchasing policies (adopted to encourage buying products manufactured from recycled materials and using recyclable products when such products are available).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.3.9	Cradle-to-cradle studies to support choosing capital improvement project materials.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.3.10	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.3.11	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.2.3.12	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

Level 3: Transforming Operations and Services for the Future

PRACTICE STATEMENT #1

Social Stewardship: Utility is an active participant and takes a leadership role in driving overall community social development activities.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
9.3.1.1	Elementary, secondary, and post-secondary school partnerships for collaborative efforts in promoting curriculum in water industry careers.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.3.1.2	Volunteer/paid intern programs, leading to career choices and workforce sustainability of critical utility jobs.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.3.1.3	Utility strategic plan with Triple Bottom Line decision making to support and incorporate community sustainability interests and priorities.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.3.1.4	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.3.1.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.3.1.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Economic Stewardship: Utility is an active participant and takes a leadership role in driving overall community economic development activities and performance.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
9.3.2.1	Collaborative agreements with local firms to identify and provide stewardship services (e.g., reused water for certain industries).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.3.2.2	Reliable, resilient, affordable, and sustainable water services marketing to prospective industry.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.3.2.3	Community leadership for promoting green job growth and workforce sustainability.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
9.3.2.4	Biogas or electricity production for directed marketing to energy grids.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.3.2.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.3.2.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.3.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #3

Environmental Stewardship: A utility-wide environmental stewardship plan is in place that integrates environmental sustainability programs with sustainability priorities of the broader community. Utility conducts operations and makes investments to support broader community sustainability and stewardship goals.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
9.3.3.1	Natural treatment systems to create “ecological bridges” to water bodies.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.3.3.2	Watershed-wide forums on source protection and enhancement.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.3.3.3	Native plant restoration program (e.g., seed and grow native plants in utility’s watershed).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.3.3.4	Leadership on sustainability planning for energy and subsequent greenhouse gas reduction initiatives.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.3.3.5	Tree planting on utility rights-of-way, recognizing constraints such as the need to manage for possible tree root intrusion to underground pipes.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.3.3.6	Watershed ecosystem services protection through land conservation acquisitions.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.3.3.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.3.3.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
9.3.3.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

10. Measurement, Continual Improvement Management, and Knowledge Management

SCOPE

This Management Area covers considerations taken by utilities when managing achievement and knowledge and measuring continuous improvement of performance.

Level 1: Providing Adequate, Fundamental Services

PRACTICE STATEMENT #1

Performance Measurement: Critical performance metrics are established and tracked/monitored to help ensure compliance and achievement of improvement objectives.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
10.1.1.1	Standard, basic reports to utility management and regulatory agencies addressing compliance requirements (e.g., source water quality, drinking water contaminants, wastewater discharge, and residual compliance metrics reports).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.1.1.2	Procedures or assigned monitoring and measuring activities to include correcting/reporting of any nonconformance (e.g., use AWWA Operational Guides to G-Series Standards to establish procedures and performance measures, where applicable).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.1.1.3	Proper calibration and maintenance for equipment used to measure performance metrics.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.1.1.4	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.1.1.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.1.1.	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Change Management and Continual Improvement: A management process is in place to review critical metrics regularly (e.g., monthly) and make assignments for improvement actions when needed. Periodic and comprehensive self-assessments are conducted to identify areas needing improvement.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
10.1.2.1	Quarterly review to compare progress towards compliance targets and objectives and identify process or procedural changes with a focus on improvement.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.1.2.2	Annual review of established compliance performance levels from existing programs.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.1.2.3	Active management consideration of new programs/improvements needed to achieve and maintain compliance.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.1.2.4	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.1.2.5	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.1.2.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

Level 2: Optimizing Operations and Services

PRACTICE STATEMENT #1

Performance Measurement: Performance metrics are established in support of level of service commitments made to regulators, rate payers, and the community and in support of continual improvement objectives of the utility.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
10.2.1.1	Targeted improvement for specific level of service processes, practices, or procedures with determination of what information will be collected to objectively demonstrate improvement.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.2.1.2	Standardized data for comparison (e.g., compare treatment costs between plants based on 1,000 gallons of water treated).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.2.1.3	Level of service metrics benchmarking to industry standards where benchmarks are applicable and available.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.2.1.4	Monthly (or more frequent) critical performance measurements review by process owners to objectively track and trend continual improvement.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.2.1.5	Periodic management review of measurable objectives, targets, and program steps to authenticate measured improvement.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.2.1.6	Explicit performance objectives, targets, and programs to reduce significant environmental and business risks to the utility.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
10.2.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.2.1.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.2.1.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Change Management and Continual Improvement: Annual cycle of continual improvement is explicitly established and documented with new/revised annual objectives, supported by regularly monitored/tracked metrics, with an annual review leading to any needed program and operational improvements. Explicit continual improvement management system(s) is implemented, with an innovative workforce trained in continuous improvement tools providing a culture of continual improvement and innovation.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
10.2.2.1	Operational and business practice process improvement management framework implementation and maturation. Examples of frameworks include: <ul style="list-style-type: none"> • ISO 14001:2004 certified or compliant Environmental Management System • AWWA Operational Guide to AWWA Standard G400, Utility Management System • Baldrige Performance Excellence Program • Balanced Scorecard 	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.2.2.2	Document controls to capture timely changes, track changes, and establish periodic review for documents. (Capture change with program documents, SOP's, work instructions, forms, and record revisions; also, identify distribution, controlled copy location, retention, and disposition of documents).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.2.2.3	Voluntary improvement program participation (e.g., Partnership for Safe Water, American Public Works Association [APWA] Accreditation Program).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.2.2.4	Process unit and process variability monitoring to identify improvement opportunities.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.2.2.5	Semi-annual review and comparison of measured performance to established industry benchmarks, and established improvement action plans.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.2.2.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
10.2.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.2.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

Level 3: Transforming Operations and Services for the Future

PRACTICE STATEMENT #1

Performance Measurement: Integrated, automated system of metrics measurement and tracking is in place supporting substantial real-time tracking of key performance indicators. Metrics established and reported to support Triple Bottom Line performance across a range of environmental, economic, and social parameters.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
10.3.1.1	Mobile applications to record and upload field data.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.3.1.2	Performance measurements integration with control charts to monitor, control, and improve process performance over time by reducing variation and its source, and also achieving incremental sustainable improvements.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.3.1.3	Externally oriented metrics for utility-led community performance measurement (e.g., watershed health indicators; municipal government or community energy efficiency and conservation strategy; community or government greenhouse gas inventory and reduction goals; and support of community sustainability master plan with specific utility activities and performance metrics).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.3.1.4	Performance and sustainability metrics reports to utility management and stakeholders, including regulators and financial institutions when applicable.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.3.1.5	Greenhouse gas emissions reports in accordance with standard industry-accepted protocols.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.3.1.6	Technology-enabled improvement (e.g., power management at treatment plants and collection and distribution systems through the automated interpretation of electronically gathered data for control chart or process capability real-time monitoring).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.3.1.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
10.3.1.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.3.1.9	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain

Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

PRACTICE STATEMENT #2

Change Management and Continual Improvement: Existing continual improvement systems and culture is built upon by using continual improvement and complementary management systems across all aspects of operations, and an emphasis is placed on cultivating community thought leaders to develop and harness the intellect of human assets.

EXAMPLE PRACTICES		ASSESSMENTS AND ACTIONS			
10.3.2.1	Lean and Six Sigma optimization methodologies (with supporting work teams) to deliver customer requirements without waste.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.3.2.2	Continuous improvement management framework (EMS, UMS, BPEP, etc.) integration with other relevant and complementary continuous improvement management systems (e.g., ANSI Z-12 Continuous Improvement Safety Management System, the ISO 50001 Energy Management Standard, and the ISO 9001:2008 Quality Management System).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.3.2.3	Continuous improvement tools training (e.g., for Lean, Six Sigma, and statistical tools).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.3.2.4	Capturing innovative ideas with incentivized formal suggestion and process improvement programs.	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.3.2.5	Municipal sustainability planning leadership (municipal activities addressing Triple Bottom Line decisions, measurement of sustainability improvements, and continuous improvement/sustainability reporting).	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.3.2.6	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.3.2.7	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain
10.3.2.8	<i>Alternative or Additional Practice:</i>	Assessment:	<input type="checkbox"/> Don't Have	<input type="checkbox"/> In Progress	<input type="checkbox"/> Complete
		Actions:	<input type="checkbox"/> Adopt	<input type="checkbox"/> Improve	<input type="checkbox"/> Maintain



Practice Statement Conclusion: Green Yellow Red

Notes on Statement Conclusion:

Conclusion



The challenges facing water sector utilities are significant and changing rapidly. These challenges are also exacerbated by uncertain economic conditions and other competing local priorities. However, along with these challenges come a myriad of important opportunities.

This document provides an important foundation for utilities across the water sector to address these challenges by improving their current operations and moving toward the goal of sustainable operations over time. More importantly, EPA recognizes that ensuring the sustainability of our nation's water sector utilities and, by extension, our nation's water resources, can only occur if regulators, utilities, states, and other partners work collaboratively and with common purpose. The challenges facing us are too daunting to do otherwise. Through this document and other efforts, EPA is committed to this collaboration going forward.

Appendix A: Resources Directory



The following appendix is a resources directory designed to support water and wastewater utilities in implementing practices in the key management areas. The directory is not meant to be an exhaustive compilation, but rather is a starting place for users of this document. A few notes for users of the resource directory:

- Resources are organized alphabetically by title, with check marks to indicate which management area(s) each resource applies to.
- Resources that are designed specifically for use by small systems are also marked.
- There is a web link for each resource. *(Links to resources may change as they are updated)*
- All the resources listed are free.

Description and Link	Strategic Business Planning and Leadership	Product Quality & Operational Optimization	Customer Satisfaction and Stakeholder Understanding & Support	Employee & Leadership Development	Financial Viability	Infrastructure Strategy and Performance	Enterprise Resiliency	Community Sustainability	Measurement and Continual Improvement Management, and Knowledge Management	Small Systems
<p>A Drop of Knowledge: The Non-Operator's Guide to Drinking Water Systems</p> <p>Explains in simple language the technical aspects of drinking water utilities from source to tap. It would be well used as an orientation and background for new small utility board members and community decision makers.</p> <p>http://rcap.org/wp-content/uploads/2011/12/Non-operators-Guide-to-DRINKING-WATER-Systems_Small.pdf</p>			X							X
<p>A Drop of Knowledge: The Non-Operator's Guide to Wastewater Systems</p> <p>Explains in simple language the technical aspects of wastewater utilities from source to tap. It would be well used as an orientation and background for new small utility board members and community decision makers.</p> <p>http://rcap.org/wp-content/uploads/2016/01/RCAP-Non-operators-Guide-to-WASTEWATER-Systems.pdf</p>			X							X



Description and Link	Strategic Business Planning and Leadership	Product Quality & Operational Optimization	Customer Satisfaction and Stakeholder Understanding & Support	Employee & Leadership Development	Financial Viability	Infrastructure Strategy and Performance	Enterprise Resiliency	Community Sustainability	Measurement and Continual Improvement Management, and Knowledge Management	Small Systems
<p>Asset Management: A Best Practices Guide</p> <p>Designed to help owners, managers, and operators for small water systems to understand: what asset management means; the benefits of asset management; best practices in asset management; and how to implement an asset management program.</p> <p>https://nepis.epa.gov/Exe/ZyPDF.cgi/P1000LP0.PDF?Dockey=P1000LP0.PDF</p>						X				
<p>Asset Management: A Handbook for Small Water Systems</p> <p>Designed for owners and operators of small community water systems (public or private). It presents basic concepts of asset management and provides the tools to develop an asset management plan.</p> <p>https://nepis.epa.gov/Exe/ZyPDF.cgi/2000JTPU.PDF?Dockey=2000JTPU.PDF</p>						X				X
<p>Check Up Program for Small Systems (CUPSS)</p> <p>CUPSS is a free, easy-to-use, asset management software tool for small drinking and wastewater utilities. Use CUPSS to help you develop:</p> <ul style="list-style-type: none"> • A record of your assets • A schedule of required tasks • An understanding of your financial situation • A tailored asset management plan <p>https://www.epa.gov/dwcapacity/information-check-program-small-systems-cupss-asset-management-tool</p>	X				X	X				X
<p>Climate Ready Water Utilities</p> <p>Provides access to resources containing climate-related information relevant to the water sector. The Toolbox contains highlighted resources, which are organized into categories to help guide the user to the most relevant information. CRWU resources are updated frequently.</p> <p>https://www.epa.gov/crwu</p>	X				X	X	X	X		
<p>Communicating the Value of Water</p> <p>A guidebook to help drinking water utilities effectively communicate the value of their tap water. Identifies the benefits of communicating effectively and consistently to constituents about the value of water. Includes key messages, marketing tools, and case studies.</p> <p>http://www.waterrf.org/PublicReportLibrary/91222.pdf</p>										



Description and Link	Strategic Business Planning and Leadership	Product Quality & Operational Optimization	Customer Satisfaction and Stakeholder Understanding & Support	Employee & Leadership Development	Financial Viability	Infrastructure Strategy and Performance	Enterprise Resiliency	Community Sustainability	Measurement and Continual Improvement Management, and Knowledge Management	Small Systems
<p>Cybersecurity Guidance and Tool, Versions 2.0</p> <p>Resources designed to provide actionable information for utility managers and operators based on their use of process control systems. These resources complement the national-level actions that have resulted from Executive Order 13636 - Improving Critical Infrastructure Cybersecurity.</p> <p>https://www.awwa.org/resources-tools/water-and-wastewater-utility-management/cybersecurity-guidance.aspx</p>							X			
<p>Effective Utility Management: A Primer for Water and Wastewater Utilities</p> <p>The <i>Primer</i> presents a framework for water and wastewater utility managers to use when assessing the effectiveness of their utility based on a series of 10 Attributes of Effectively Managed Utilities and Keys to Management Success.</p> <p>https://www.epa.gov/sites/production/files/2017-01/documents/eum_primer_final_508-january2017.pdf</p>	X								X	
<p>Emergency Response Plan Guidance for Small and Medium Community Water Systems</p> <p>Provides guidance on developing or revising emergency response plans for small- and medium-sized community drinking water systems, to comply with the Public Health Security and Bioterrorism Preparedness and Response Act of 2002.</p> <p>https://www.epa.gov/sites/production/files/2015-04/documents/2004_04_27_watersecurity_pubs_small_medium_erp_guidance040704.pdf</p>							X			X
<p>Emergency/Incident Planning, Response, and Recovery</p> <p>Includes guidance documents and other resources on resilience topics, including: training and exercise, mutual aid and assistance, coordination with state agencies, all-hazard planning, emergency response plan development, risk and crisis communication, and more.</p> <p>http://water.epa.gov/infrastructure/watersecurity/emerplan/index.cfm#te2</p>							X			
<p>Energy Efficiency Best Practices for North American Drinking Water Utilities</p> <p>Includes a compendium of best practices for energy efficient design and operation of water industry assets. Compendium includes successful strategies to help water utilities reduce energy consumption in water transmission, treatment, storage, and distribution.</p> <p>http://www.waterrf.org/PublicReportLibrary/4223.pdf</p>		X				X				



Description and Link	Strategic Business Planning and Leadership	Product Quality & Operational Optimization	Customer Satisfaction and Stakeholder Understanding & Support	Employee & Leadership Development	Financial Viability	Infrastructure Strategy and Performance	Enterprise Resiliency	Community Sustainability	Measurement and Continual Improvement Management, and Knowledge Management	Small Systems
Energy Efficiency for Water Utilities Provides links to several guides and tools for tracking and understanding water utility energy use. https://www.epa.gov/sustainable-water-infrastructure/energy-efficiency-water-utilities		X								
Energy Star for Wastewater Plants and Drinking Water Systems A tool for plant managers to assess and track energy use, energy costs, and associated carbon emissions. Allows benchmarking against other systems. http://www.energystar.gov/index.cfm?c=water.wastewater_drinking_water		X								
Ensuring a Sustainable Future: An Energy Management Guidebook for Wastewater and Water Utilities Provides water and wastewater utility managers with step-by-step methods to identify, implement, measure, and improve efficiency and renewable opportunities at their utilities. https://nepis.epa.gov/Exe/ZyPDF.cgi/P1003Y1G.PDF?Dockey=P1003Y1G.PDF		X				X			X	
Establishing Public-Private Partnerships for Water and Wastewater Systems Describes the conditions for when to form a public-private partnership and how to form and manage them to meet water and wastewater needs. http://www.nawc.org/uploads/documents-and-publications/documents/document_567764ad-b69f-4715-bc5d-eea32c304fdd.pdf			X					X		
Federal Funding for Utilities - Water/Wastewater - in National Disasters (Fed FUNDS) Fed FUNDS provides tailored information to water and wastewater utilities about applicable federal disaster funding programs. The Fed FUNDS web pages address national-level disasters, but can also apply to large-scale and local disasters that result in service interruptions and significant damage to critical water/wastewater infrastructure. https://www.epa.gov/fedfunds					X	X	X			
Financing Alternatives Comparison Tool (FACT) A financial analysis tool that calculates and compares the costs of various financing options for water quality projects. https://www.epa.gov/cwsrf/financing-alternatives-comparison-tool	X				X					



Description and Link	Strategic Business Planning and Leadership	Product Quality & Operational Optimization	Customer Satisfaction and Stakeholder Understanding & Support	Employee & Leadership Development	Financial Viability	Infrastructure Strategy and Performance	Enterprise Resiliency	Community Sustainability	Measurement and Continual Improvement Management, and Knowledge Management	Small Systems
Formulate Great Rates: The Guide to Conducting a Rate Study for a Water System A guide to developing a fair and equitable rate structure in a small drinking or wastewater system. https://rcap.org/wp-content/uploads/2012/03/Formulate-Great-Rates.pdf	X				X					X
Getting in Step: Engaging and Involving Stakeholders in Your Watershed Provides tools needed to effectively engage stakeholders to restore and maintain healthy environmental conditions through community support and cooperative action. Can help utilities to involve stakeholders in local or regional watershed efforts. https://cfpub.epa.gov/npstbx/files/stakeholderguide.pdf			X					X		
Green Infrastructure Provides background information and resources on green infrastructure strategies. https://www.epa.gov/green-infrastructure	X					X		X		
How to Develop a Multi-Year Training and Exercise Plan Provides background on different types of training and exercise, describes the importance of a training and exercise plan, provides a multi-year plan template, and includes attachments with example plan documents, exercise resources, and planning resources. https://www.epa.gov/sites/production/files/2015-05/documents/how_to_develop_a_multi-year_training_and_exercise_plan_fact_sheet.pdf							X			
Large Water System Emergency Response Plan Outline Provides guidance to assist community water systems in developing or revising emergency response plans to comply with the Public Health Security and Bioterrorism Preparedness and Response Act of 2002. https://www.epa.gov/sites/production/files/2015-03/documents/erp-long-outline.pdf							X			
Managing Money: State SRF Short-Term Investing Focuses on strategy development for SRF managers. It looks at shorter-term investment goals, where consideration of liquidity and accessibility are controlling factors. http://www.cifanet.org/newsPDF/m12.pdf	X				X					



Description and Link	Strategic Business Planning and Leadership	Product Quality & Operational Optimization	Customer Satisfaction and Stakeholder Understanding & Support	Employee & Leadership Development	Financial Viability	Infrastructure Strategy and Performance	Enterprise Resiliency	Community Sustainability	Measurement and Continual Improvement Management, and Knowledge Management	Small Systems
<p>NIST Cybersecurity Framework</p> <p>The <i>Framework for Improving Critical Infrastructure Cybersecurity</i> includes standards, guidelines, and practices to promote the protection of critical infrastructure and manage cybersecurity-related risks.</p> <p>https://www.nist.gov/cyberframework</p>							X			
<p>Optimizing the Water Utility Customer Contact Center</p> <p>Identifies best practices, processes, and technologies for water utility customer contact center operations to optimize the contact center as a utility-wide resource for communications. Identifies key components and characteristics of the customer contact center of the future.</p> <p>http://www.waterrf.org/PublicReportLibrary/4100.pdf</p>			X							
<p>Performance Benchmarking for Effectively Managed Water Utilities</p> <p>A tool and corresponding resources to help water and wastewater utilities evaluate their current and desired levels of performance related to the Effective Utility Management Ten Attributes. This tool and resources are aligned with the <i>EUM Primer</i> and provides a structured process to help utilities conduct a self-assessment on any or all of the Ten Attributes.</p> <p>http://www.waterrf.org/publicreportlibrary/4313b.pdf</p>	X	X	X	X	X	X	X	X	X	
<p>Planning for Sustainability: A Handbook for Water and Wastewater Utilities</p> <p>Describes steps that utilities can take to enhance their existing planning processes to ensure that water infrastructure investments are cost-effective over their lifecycle, resource efficient, and support other relevant community goals.</p> <p>https://nepis.epa.gov/Exe/ZyPDF.cgi/P100KZGW.PDF?Dockey=P100KZGW.PDF</p>	X				X				X	
<p>Pricing and Affordability of Water Services – Introduction</p> <p>Website provides information on water and wastewater pricing; explains the concepts of pricing and water conservation; and supplies tools, guides, and reports on pricing.</p> <p>https://www.epa.gov/sustainable-water-infrastructure/pricing-and-affordability-water-services</p>	X				X					



Description and Link	Strategic Business Planning and Leadership	Product Quality & Operational Optimization	Customer Satisfaction and Stakeholder Understanding & Support	Employee & Leadership Development	Financial Viability	Infrastructure Strategy and Performance	Enterprise Resiliency	Community Sustainability	Measurement and Continual Improvement Management, and Knowledge Management	Small Systems
<p>Rural and Small Systems Guidebook to Sustainable Utility Management</p> <p>The <i>Guidebook</i> uses the Effective Utility Management (EUM) framework and is tailored to the needs of rural and small systems. It is designed to help them become more successful and resilient service providers and includes a utility self-assessment.</p> <p>https://www.epa.gov/sites/production/files/2016-06/documents/rural_and_small_systems_guidebook_-_may_2016_508.pdf</p>	X	X	X	X	X	X	X	X		X
<p>Strategic Planning: A Handbook for Small Water Systems</p> <p>A strategic planning handbook and workbook for small water systems.</p> <p>http://www.in.gov/iurc/files/strategic-planning-for-small-systems.pdf</p>	X				X					X
<p>The Basics of Financial Management for Small Community Utilities</p> <p>A primer and how-to guide that is ideal for a board member of a drinking or wastewater utility who needs to understand the financial aspects of a small utility's operations.</p> <p>http://www.rcapsolutions.org/wp-content/uploads/2013/06/RCAP-Financial-Management-Guide.pdf</p>					X					X
<p>The Effective Utility Management Resource Toolbox</p> <p>Provides a compilation of resources from collaborating associations and agencies on the EUM effort and is organized according to the Ten Attributes and Five Keys to Management Success.</p> <p>http://www.watereum.org/resources/resource-toolbox/</p>	X	X	X	X	X	X	X	X	X	
<p>The Water Resources Utility of the Future: A Blueprint for Action</p> <p>Presents the clean water industry's vision for the future, as well as a series of actions that will help deliver this vision. The Utility of the Future will transform the way that traditional wastewater utilities view themselves and manage their operations, including their relationships with communities and their contributions to local economies.</p> <p>http://www.wef.org/globalassets/assets-wef/direct-download-library/public/03---resources/waterresourcesutilityofthefuture_blueprintforaction_final.pdf</p>	X	X	X		X		X	X		
<p>Utility Finance Knowledge Portal</p> <p>Includes resources on revenue, financial planning, board and customer communication, and cost control.</p> <p>http://www.waterrf.org/knowledge/utility-finance/Pages/default.aspx</p>	X		X		X					



Description and Link	Strategic Business Planning and Leadership	Product Quality & Operational Optimization	Customer Satisfaction and Stakeholder Understanding & Support	Employee & Leadership Development	Financial Viability	Infrastructure Strategy and Performance	Enterprise Resiliency	Community Sustainability	Measurement and Continual Improvement Management, and Knowledge Management	Small Systems
<p>Value of Water Coalition</p> <p>Public education materials about the importance of clean, safe, and reliable water to and from every house and community, to help ensure quality water service for future generations.</p> <p>http://thevalueofwater.org</p>			X					X		
<p>Water Finance Clearinghouse</p> <p>The Water Finance Clearinghouse is an easily navigable web-based portal to help communities locate information and resources that will assist them in making informed decisions for their drinking water, wastewater, and stormwater infrastructure needs.</p> <p>https://ofmpub.epa.gov/apex/wfc/f?p=165:1</p>							X	X		
<p>Weather & Hydrologic Forecasting for Water Utility Incident Preparedness and Response</p> <p>Includes resources for national weather hazards, national forecast charts, flood risks, drought monitors, and more.</p> <p>https://www.epa.gov/sites/production/files/2015-06/documents/water_and_hydro_forecasting.pdf</p>							X	X		
<p>Work for Water</p> <p>Campaign promoting water careers as both professionally fulfilling and aligned to the greatest public health and environmental causes of our day. Includes resources for recruitment and retention, as well as management strategies.</p> <p>http://www.workforwater.org</p>				X						
<p>Workforce Planning for Water Utilities</p> <p>Frames the issues of recruiting, training, and retaining drinking water utility operators and engineers. Identifies short-term and long-term strategies that can be implemented by individual utilities and by the industry to address workforce planning issues.</p> <p>http://www.waterrf.org/PublicReportLibrary/91237.pdf</p>				X						



Appendix B: Acknowledgments

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2015-2016 UTILITY 'ROAD TESTERS'

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MOVING TOWARD SUSTAINABILITY:
Effective Practices for Creating Your Water Utility Roadmap