

BCTT Subcommittee - C.1. Sustainable Materials Management Plan (SMMP)

DRAFT Subcommittee Recommendations to BCTT Work Group

Contents

Charge C: Long Term Sustainable Materials Management Plan (SMMP) tasks.....	2
Contracting out;.....	3
Qualities of a successful applicant should include:.....	3
RFP Considerations Outside of SMMP Table of Contents:	4
Subjects to be covered;.....	5
Questions to be answered in SMMP (largely covered by the SMMP table, restated here as questions):	12
(Moved from Common Understandings) Benefit-Cost Topics are only Outlined.....	14
(New) Add in Vision 2040 and related County documents with similar from other counties referenced	15
Who needs to be at the table* beyond those in the County**;	16
A workplan outline with a timeline for completion;.....	17
Topics covered in recent similar planning efforts across the state; and	18
What “lessons learned” should be brought forward in this process.....	19

Charge C: Long Term Sustainable Materials Management Plan (SMMP) tasks

- 1) Contracting out;
- 2) Subjects to be covered;
- 3) (Moved from Common Understandings) Benefit-Cost Topics are only Outlined
- 4) (New) Add in Vision 2040 and related County documents with similar from other counties referenced
- 5) Who needs to be at the table beyond those in the County;
- 6) A workplan outline with a timeline for completion;
- 7) Topics covered in recent similar planning efforts across the state; and
- 8) What “lessons learned” should be brought forward in this process.

Includes necessary foundational “common understandings” and protocols needed before beginning the actual planning process.

NOTE: This charge does not include completing the plan. It only includes a discussion of the preliminary scoping to start that planning process.

Possible Amendment for BOC Consideration: If there is sufficient time to complete the original Charge and the following activities, subcommittee to provide recommendations on:

- 1) the most important topics/subjects from the draft of the SWMP Table of Contents;
- 2) the brainstormed options for those topics/subjects; and
- 3) the reasoning, both pro and con, for their selection.

Contracting out;

Benton County should use an RFP to find consultant(s) for developing a Sustainable Materials Management Plan.

Qualities of a successful applicant should include:

- Demonstrated familiarity with international examples of reduced or eliminated reliance on landfilling.
- show their understanding of the importance of the values listed in Benton County's "Core Values" and the State of Oregon's "Materials Management in Oregon 2050 Vision and Framework for Action," and will describe how these values will permeate the process and the product of the SMMP.
- show their ability to map out the County's changing social, economic, environmental and regulatory landscapes, and ability to develop a Plan to navigate the County through them
- should be able to articulate a clear narrative or set of scenarios that describe how the Plan will be a resilient guide for the future
- conversant in the design and implementation of these alternative waste technologies, be able to evaluate their suitability for use in Benton County, and be able to map out rough timelines for their deployment
- be able to lay out innovative pathways for the County to reduce negative environmental impacts in keeping with county and state values
- be able to map out the social, ethical and environmental landscape of climate change and incorporate this map into its Planning process and product
- demonstrate their ability to design a well-imagined and resilient Plan that can assess the likelihoods of such climate-impacted events as wildfires, floods, population migrations, unprecedented disruptions to energy and transportation infrastructure, and so on
- will delineate paths for the County to establish clearer knowledge about and control over these environmental impacts (methane and other GHGs) by its franchisees, and incorporate these responsibilities into its Planning process and product
- will be able to incorporate these evolving Social, Political, Legislative Dimensions around climate change into its Planning process and product
- able to incorporate measures into its Planning process and product that will help the County respond to various trends affecting current and projected waste streams
- Have experience in SMMP development in the past (traditional and innovative)
- Ability to show Economic/Env/Social impacts, and comparative analysis, with demonstrated experience
- Have some experience with large university communities
- Demonstrated experience with jurisdictions like Benton County (rural areas for example, industries)
- Experience with inclusivity, outreach campaigns
- Able to allow and encourage community involvement in the development process, and demonstrated experience
- Experience with jurisdictions with non-standard waste streams – like high-tech industries, labs, forestry

- Be able to keep 2040 Thriving Communities Initiative core values in mind during the entire process of formulating an SMMP plan, and trace each recommendation back to the values expressed in the Initiative
- Be able to engage with the community throughout this process with any innovative measures on how this can take place, either virtually or with town hall type gatherings
- Experience in such community engagement.
- Be able to suggest programs and ways in which the community could participate, and measure their participation

RFP Considerations Outside of SMMP Table of Contents:

- Early stage outreach to community, including students, multi-family residential, single-family residential, rural residential, businesses, local builders, developers
- Meeting people where they are – for outreach
- Provide details about Workgroup process and its findings to RFP applicants

Subjects to be covered;

TOPICS
INTRODUCTION
Context of the Plan
Plan Purpose and Goals
Issues Addressed by the Plan (include discussion of exclusions to the Plan)
A new approach to managing waste: Sustainable materials management framework vs. Solid Waste management framework
1) Addressing the full life cycle of materials
2) Moving From Where We've Been to Our New Vision (provide timeline)
3) The life cycle of products and materials
4) The garbage and recycling system
5) Leading with equity
Environmental impacts of products and materials
1) Measuring environmental impacts (Full Life Cycle Analyses)
2) Reducing our impact
Values, principles, and vision
1) Overview
2) Values
3) Principles
4) Vision
Goals and actions
1) Overview
2) Navigating the action tables
3) Shared prosperity
4) Product design and manufacturing
5) Product consumption and use
6) Product end-of-life management
7) Disaster resilience
Measuring progress
1) Plan Indicators

TOPICS

Implementation, compliance, and amendments

- 1) Overview
- 2) Roles and responsibilities
- 3) The County's Role in Solid Waste Management Planning and Operations
- 4) Oregon statutory requirements
- 5) Requirements for local governments
- 6) Plan implementation
- 7) Plan oversight

Legal foundation and policy guidance

- 1) Overview
- 2) Legal foundation
- 3) Policy guidance
- 4) Plan Organization

Management Planning Process And Summary

- 1) Building On Previous Planning Work
- 2) Management Planning Process
- 3) Public And Stakeholder Input
- 4) Common Themes Of Public And Stakeholder Input
- 6) Valuable Partnerships

Local Economic Development

Opportunities for innovation and entrepreneurship

CLIMATE CHANGE

Policy Impacts

Waste stream impacts from climate change policy/shifts

Social, Political, Legislative Dimensions

LIFE CYCLE IMPACTS OF MATERIALS

Introduction

TOPICS

Scale of impacts (Regional, state, national)

Which materials are most impactful

Which Disposal methods are most impactful

Impacts of generation sources (industries, large quantity generators)

Method and recommendations for ongoing analysis

BACKGROUND AND WASTE STREAM ANALYSIS

Introduction

Characteristics of the Planning Area

Description of the Solid Waste Management System
--

Analysis of community impacts from solid waste management system
--

Summary of Annual Solid Waste Generation
--

1) Refuse Collection

2) Transfer Stations

3) Disposal Facilities

4) Recycling Facilities

Current and Projected Waste Stream Composition and Quantities

1) Definition

2) Historical Solid Waste Data

3) Waste Stream Composition

4) Waste stream generation by economic sector/industry
--

5) Unique waste streams – timber wastes ex.

6) Disposal methods – slash burning, open burning, etc. and their impacts

7) Waste Stream Generation Forecast, including Economic, environmental, and material trend factors
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WASTE PREVENTION/REDUCTION/ REUSE AND RECYCLING ANALYSIS

Introduction

Background

Existing Waste Reduction and Reuse Programs

1) Waste Reduction Programs, including food

2) Reuse Programs

TOPICS

- | |
|--|
| 3) Recycling Programs |
| 4) Composting |
| 5) Needs and Opportunities |
| Construction and Demolition materials and Deconstruction |

Alternatives for Increased Waste Reduction, Reuse, and Recycling

- | |
|--|
| 1) Enhance Current Promotion/Education/Support Services |
| 2) Target Certain Types of Generators or Waste Streams to Increase Diversion by Expanding Basic Services |
| 3) Targeted high impact materials for Reduction, Reuse, and Recovery |

Sorting at point of generation

- | |
|---|
| 4) Target Recovery of New Materials |
| Potential impacts/benefits of utilizing alternative options. How do these impact Benton County? What is needed to accomplish effectiveness? |
| Analysis of Recommendations from Advisory Groups and Public |
| Analysis and recommendations for policy as related to Increased Waste Reduction, Reuse, and Recycling |
| Options for supporting circular economy |
| Options for integrating extended producer responsibility |
| 5) Recommendations |

RECYCLING AND MATERIALS PROCESSING

Background and Existing Conditions

- | |
|--|
| 1) Existing Collection and Processing |
| 2) Collection and Processing Services |
| 3) Processing/collection Facilities |
| 4) Yard Debris and Wood Waste Process Facilities |

Food Waste - Organics

- | |
|----------------------------|
| 5) Needs and Opportunities |
|----------------------------|

TOPICS
Alternatives
1) Processing Recyclable Materials
Sorting Technologies and MRF options
Proven vs. Unproven alternatives
2) Recommendations for Collection and Recycling/Processing
WASTE COLLECTION AND TRANSFER
Background and Existing Conditions
1) Regulatory Framework
2) Local Authority
3) Existing Collection Services
4) Commercial Waste Collection
5) Transfer Station Operation Approach
6) Waste and Vehicle Volumes to Each Transfer Station
7) Recycling at Transfer Stations
Unique wastes
Transfer Station Descriptions
1) Facility Needs
2) Disposal at a New In-County Landfill
3) Disposal at an Out-of-County Landfill
4) Other Operation Related Requirements
5) Collection Considerations for Specific Wastes
Needs and Opportunities
1) Collection Services
2) Need to Implement Transfer Station Capacity
Alternatives and Evaluation – Analysis and Investigation
1) Increase Commercial Waste Collection of Recyclable Materials
2) Develop Transfer Stations Capacity
Comparative costs of landfilling vs. waste to energy vs. recycling
Comparison of different waste disposal and material management governance models
3) Recommendations

TOPICS

European/Global Strategies to Consider

Multiple vendor options

ALTERNATIVE TECHNOLOGIES AND SOLID WASTE DISPOSAL

Background and Existing Conditions

1) Introduction

2) Flow Control

3) Existing Landfill Disposal

Waste Stream Projections

1) Waste Disposal Projections

2) Needs and Opportunities

Alternatives and Evaluation

1) Alternatives for Municipal Solid Waste (MSW) Disposal

2) Mixed Waste Processing

3) Technology Summary

possibilities for transition assistance from state and federal initiatives addressing climate change

4) Evaluation of Options

5) Findings and Recommendations

HAZARDOUS WASTE

Background and Existing Conditions

1) Existing Collection and Processing

2) Collection and Processing Services

3) Processing/collection Facilities

5) Needs and Opportunities

Alternatives

1) Collection and Processing services and facilities

2) Recommendations for Collection /Processing services and facilities

LANDFILL DISPOSAL OPTIONS

Background

County Authority for Waste Disposal

Existing Landfill Disposal

And list pros and cons of it

Waste Stream Projections

Projection Scenarios - climate change, regulatory environment, costs, etc.

TOPICS
Landfill Lifespan
Env. Impact Assessment
Needs and Opportunities
Disposal Options
1) Long-Haul Waste to Out-of-County Landfills
2) Alternative Options
3) Evaluation of Disposal Options
4) Recommendations
ADMINISTRATION AND ENFORCEMENT
Introduction
Background and Existing Conditions
1) Solid Waste Administrative Agencies
2) Solid Waste Advisory Council (SWAC) and Disposal Site Advisory Committee (DSAC)
3) Solid Waste Enforcement
4) Financing and Funding Sources
5) Economic footprint
6) Economic impact
7) System revenue
Monitoring plan progress
Ensuring Policies are followed
County community and business engagement
Needs and Opportunities
1) Management Considerations
2) Financing and Funding Considerations
3) Management Issues
Policy Development
Alternatives and Evaluation
Basis for deciding franchise contracts; annual renewals; capital costs
1) Administration/Management
2) Finance and Funding
3) Recommendations
CONCLUSION
RESOURCES

Questions to be answered in SMMP (largely covered by the SMMP table, restated here as questions):

- What are the true environmental impacts of landfilling for Benton County? Especially: what is the greenhouse gas footprint of the landfill? What do these impacts look like when projected into the future?
- What are the true economic costs and benefits of landfilling for the County? What do these costs and benefits look like when projected into the future?
- Equity and livability costs/impacts? How equitable are the current waste/recycling/prevention services provided in Benton County to traditionally underserved populations and all communities, and what are the standards to strive for?
- Net environmental impact of materials/systems?
- Given that a transition away from landfilling at Coffin Butte Landfill seems inevitable, what are the various paths that the County can take to accomplish this? What means (funding, collaborations, etc.) are necessary to make to embark upon these paths?
- Are there landfills other than Coffin Butte Landfill that should be considered? What are the tradeoffs (economic, environmental)?
- What are the alternative waste technologies available to lessen or replace landfilling? What means (funding, regional collaborations, etc.) are necessary to bring these technologies into Benton County or the region?
- The County's interests would seem to be best served by diverting waste from the landfill, but the landfill's interests are best served by emplacing waste in the landfill. What is the path forward that balances these competing interests?
- What is the risk assessment of the landfill? How can the County best manage these risks?
- What is the long-term outlook for the landfill? What is its best closure plan? What measures should be in place to manage the landfill's impacts after closure?
- Which options for addressing the above issues best reflect the County's (and the State's) stated values?
- Where compared to waste management hierarchy is Benton County?
- How can we use government grants and programs that are being set up to combat the effects of climate change to create a truly unique and innovative program that makes the best use of the resources available in our county and highlights our most valuable assets to enable our residents to 'be their best selves' in terms of living a sustainable life?
- How can we encourage local construction companies to provide recycling facilities for tenants with the use of building codes, subsidies or penalties to encourage responsible construction that will continue to be viable in the future?
- How do we support and extend the Oregon 2050 Vision for Materials Management?
- How do we support Oregon SB 582, the [Plastic Pollution and Recycling Modernization Act](#), in our county?
- What is a practical, economically feasible, and innovative path for our county to move from where we are today to a responsible and sustainable community?
- How can we use our unique assets and any economic benefits we might glean from our county natural resources? Can we use our rivers and forests to foster more sustainable local practices?

- Can we foster legislation to encourage building codes that support recycling capabilities and other sustainable materials use in construction? Can we require a level of waste reduction and re-purposing of building materials and demolition debris?

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(Moved from Common Understandings) Benefit-Cost Topics are only Outlined

- Included in SMMP Table
- Circular economy costs/benefits

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(New) Add in Vision 2040 and related County documents with similar from other counties referenced

The Benton County Sustainable Materials Management Plan should be developed within a Sustainable Materials Management framework, reflecting full lifecycle impacts. The following information should be considered during the development of a Sustainable Materials Management Plan:

1. 2040 Thriving Communities Initiative Values
2. National, State and local goals, plans, policies, ordinances, etc. relating to materials management and climate change
3. Examples of values and goals expressed in state and local jurisdiction materials management plans
4. Long-term strategies (to 2040) with short-term action items (5 years or less)

Who needs to be at the table* beyond those in the County**;

- DEQ
- Economic Development Office County/Corvallis
- Small Cities
- Neighboring counties
- Community Members
- Waste generation sources (jurisdictions) – how much weight should non-county members be given? Economy of scale?
- Local Advocacy groups (Willamette valley) – sustainability coalition, river keepers, watershed councils
- National Advocacy groups
- Equity, Diversity, Inclusion coordinator
- Low income populations, multi-family residents

*at the table - meaning who to be consulted for feedback through the development of this plan, discuss regional coalitions/partnerships/collaboration

**County government/staff

A workplan outline with a timeline for completion;

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Topics covered in recent similar planning efforts across the state; and

- [Materials Management in Oregon 2020 Framework for Action](#)
- [Materials Management in Oregon 2050 Vision and Framework for Action \(2012\)](#)
- [Deschutes County Solid Waste Management Plan \(2019\)](#)
- [Lane County Solid Waste Management Plan \(2019\)](#)
- [Lincoln County Integrated Solid Waste Management Plan \(2004\)](#)
- Marion County
 - [Marion County, Oregon Solid Waste Management Plan Update \(2009\)](#)
 - [Marion County Solid Waste System Assessment Report \(2016\)](#)
 - [Marion County, Oregon Solid Waste and Energy Final Report \(2017\)](#)
- Metro:
 - [Metro 2030 Regional Waste Plan \(2019\)](#)
 - [Waste Prevention & Environmental Services Regional Waste Plan Progress Report \(January 2022\)](#)
- [Tillamook County Comprehensive Materials and Solid Waste Management Plan \(2012\)](#)

What “lessons learned” should be brought forward in this process.

- Feedback from other counties who have developed materials management plans
- International examples of landfill alternatives (such as Germany, Finland, Sweden, and South Korea)
- Examples from California and Washington
- Lessons from past Benton County experiences with contracts with Republic, engagement,
- Lessons from individual processes vs. integrated systems
- Workgroup process and its findings

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