1. Agenda

Topic	Lead	Start	Duration	Materials
Workgroup Meeting: Welcome Review Participant Meeting Instructions Review Agenda Approve Draft M4 Minutes Approve Updated Tour Q&A Updated Workplan Facilitator 11/16/22	Facilitator	3:00	15 mins	Working M5 Agenda Draft M4 Minutes M4 Evaluation Tour Q&A Final Version Updated Workplan
Public Comment Period	Public	3:15	10 mins	Public Comments (Link Expires 12/16/22) Password: Benton1!
Subcommittee Reports: Topic A.1. Landfill Size, Capacity, and Longevity Topic A.2. Past CUP Conditions Topic A.3. Legal Issues and Topic B.1. Land Use Review Topic C.1. SMMP	Subcommitt ee-Led Workgroup Discussions (15 mins each)	3:25	60 mins	Website: A.1. Landfill Size/Capacity/Longevity • Report Website: A.2. Past CUP Conditions Website: A.3. Legal Issues and B.1. Land Use Review Website: C.1. Sustainable Materials Management Plan (SMMP) • Report
Reintroduce Charges D and E	Facilitator	4:25	10 mins	 Charge D (Legal Sub): a) Scope Tasks to Plan Hauling Reopener b) SWAC/DSAC Role Clarity and PC/BOC Criteria Use c) Code Change Timeline Charge E (New Sub): a) General History of Coffin Butte b) Report's EX/SUM c) Community Education
Next Steps: 1) Member Meeting Five Evaluation (Due Monday at 5:00 PM)	Facilitator	4:35	15 mins	<u>https://www.surveymonkey.co</u> <u>m/r/BCTTM5EVAL</u>

 Homework for Meeting 6: TBD Next Meeting: 12/15/22 @ 3:00 PM Open House Instructions 				
Dinner and Open House Preparation	All	5:00	30 mins	
 Open House: Six Stations Process Overview Landfill Capacity/Longevity Past CUP Conditions Compliance Legal Issues and Land Use Review Sustainable Materials Management Plan (SMMP) Community Education and Communication Plan 	All	5:30	120 mins	
Adjourn	All	7:30		

2. Attendance

Organization Interest Group	WORKGROUP Member	Alternate	Polling	Ex Officio	Charge	Present
SWAC/DSAC	Joel Geier	Chuck Gilbert	Х		All	Х
SWAC/DSAC	Marge Popp		Х		All	Х
Planning Commission	Elizabeth Irish		Х		All	Х
Republic: National	Russ Knocke	Ginger Rough	Х		All but C	X (both)
Republic: Local	Shawn Edmonds	Julie Jackson	Х		All but C	Х
Public	John Deuel		Х		All	Х
Public	Kathryn Duvall		Х		All	
Public	Christopher McMorran		Х		All	
Public	Ryan McAlister		Х		All	Х
Public	Mary Parmigiani		Х		All	Х

Public	Ed Pitera		Х		All	Х
Public	Louisa Shelby		Х		All	Х
Public	Catherine		х		All	х
	Biscoe		Λ		7 111	Λ
DEQ	Brian Fuller		х		All but	х
DLQ	Dilan i unci		Л		D	Л
Marion County	Brian May	Andrew Johnson		x	Only C	
Linn County	Shane Sanderson			х	Only C	х
Benton County	Daniel Redick			X	All	X
Benton County	Sean McGuire	Jen Brown		X	All	Х

Benton County Staff

Benton County	Darren Nichols	X
Benton County	Greg Verret	Х
Benton County	Inga Williams	Х
Benton County	Linda Ray	Х

Facilitation Staff:

ICM Resolutions	Sam Imperati	Х
ICM Resolutions	Amelia Webb	Х

3. Minutes

Topic	Minutes			
	Sam welcomes the group, notes where to find the Participant			
Workgroup Meeting:	Meeting Instructions, and then reviews the Agenda.			
Welcome	Sam goes over M4 Minutes.			
Review Participant Meeting Instructions	- Joel Geier: Introduces motion to revise the M4 notes			
Review Agenda	as per the recent email exchange.			
Approve Draft M4 Minutes	- Ed Pitera: Seconds the motion and suggests			
Approve Updated Tour Q&A	alternative ideas like using a transcript.			
Updated Workplan Facilitator 11/16/22	Sam holds a quick poll on the original motion: Substituting			
	the language that Joel Geier presented in place of the existing			

	Doug Pollock comments in the Public Comments section of
	the Meeting 4 Minutes. (See 07:53 – 10:00 of meeting
	recording.) 10 voting members present , 7 vote yes.
	- Sam: In response to the alternative ideas raised by
	Ed, Sam explains that there already is a transcript
	with the recording and offers a paid transcription to
	serve as another alternative to this. He also suggests
	that people can bring in written statements if they
	would like or send in a written statement the next
	week to encapsulate the comment they made at the
	workgroup. These written comments would then be
	put into the appendix of the meeting minutes.
	- Ed Pitera: Agrees that written statements should be
	added in this way.
	- Marge Popp : Asks if there can be a clearer picture of
	the public and workgroup comments. Daniel
	explains how the comments are currently accessible
	on the meeting agendas via FTP's.
	Sam: Goes over Tour Q&A changes – Joel approves.
	Sam: Walks through the Updated Workplan, noting that
	they added a new subcommittee to work on Charge E.
	(Louisa Shelby had already agreed to be on it.)
	Schmidt Pathman: His company promotes research on Solid
	Waste Management and partners with Universities, national
	and international organizations. Some of their concerns about
	landfills are: 1) the underestimation of methane produced by
	landfills and lessoning organic materials thrown away, and
	2) lessening cross contamination of recyclable materials,
	which can be better achieved with the sorting system they
	have designed. (Pending receipt (full statement) by speaker
	to be placed in <u>Appendix A</u> .)
Duchlin Commune Domin d	Debbie Palmer: Notes that the link to the FTP links is only
Public Comment Period	good for a month. She also notes that she likes the need for
	fidelity between the oral and written public comments.
	Denial : Explains that was the links need to be react each
	Daniel: Explains that, yes, the links need to be reset each
	month. However, they will ensure the links are always
	month. However, they will ensure the links are always
	month. However, they will ensure the links are always updated and available. Dr. Skip Rochefort: (Associate Professor of Chemical
	month. However, they will ensure the links are always updated and available. Dr. Skip Rochefort: (Associate Professor of Chemical Engineering at Oregon State University) He presents a
	 month. However, they will ensure the links are always updated and available. Dr. Skip Rochefort: (Associate Professor of Chemical Engineering at Oregon State University) He presents a recorded lecture/slideshow on how they have created a way
	 month. However, they will ensure the links are always updated and available. Dr. Skip Rochefort: (Associate Professor of Chemical Engineering at Oregon State University) He presents a recorded lecture/slideshow on how they have created a way to create diesel fuel from plastics using only heat. (See
Subcommittee Reports:	 month. However, they will ensure the links are always updated and available. Dr. Skip Rochefort: (Associate Professor of Chemical Engineering at Oregon State University) He presents a recorded lecture/slideshow on how they have created a way

Topic A.1. Landfill Size, Capacity, and	- They note who is a member and what the
Longevity	subcommittee is set up to do. They then explain how
- 8	Republic Services records data based on when they
Topic A.2. Past CUP Conditions	can fly over the landfill to take it. They also explain
1	how tonnage, density, and airspace are all different.
Topic A.3. Legal Issues and Topic B.1.	They then walked through how Republic monitors
Land Use Review	cells for 30 years after closer to track changes in
	density, staying up on new regulations, etc. They
Topic C.1. SMMP	also note that Republic has site plans filed with DEQ
	that document different elements of the landfill.
	Republic Services usually plans around 5 years when
	they're making estimates, but these predictions can't
	anticipate natural disasters, such as taking in debris
	from wildfires or the increase in solid waste due to
	COVID. For example, when Riverbank Landfill
	closed, it caused Cell 5 to fill faster than expected.
	- No questions were asked.
	- See: <u>https://www.co.benton.or.us/cd/page/bctt-</u>
	subcommittee-a1-landfill-sizecapacitylongevity
	A.2 CUP Subcommittee Report: Ed Pitera
	- He notes who is a member and shares the highlights
	they've been working on. They are continuing to
	refine their documents and are going through from
	the beginning of CUP conditions to discover what
	changes have been made. For example, the original
	CUP said Riverbend Landfill could give waste to
	Benton County for two years. Whether or not there
	was another agreement that allowed for the
	continuation has yet to be found. Ed then covered
	the action items for the subcommittee, particularly
	creating a timeline.
	- No questions were asked.
	- Sam: Notes that by the end of the process, they will
	produce a large document with many tables that will
	show this 50 year long timeline of CUP conditions.
	- Joel Geier: Asked how voting will be done at the end
	of the process given issues or so complex.
	- Sam: There will first be a discussion on how the
	Workgroup would like to vote, and then they will go
	through and poll on each section with 1-2-3 polling.
	The subcommittee should do most of the heavy
	lifting, so the Workgroup will not be polling line-by-
	line of the document.

 See: <u>https://www.co.benton.or.us/cd/page/bctt-</u>
subcommittee-a2-past-land-use-application-
conditions
A.3. & B.1. Legal Subcommittee Report: Elizabeth Irish
- She first explained how they were approaching the
issue, then went over the group's to-do items for
their next meeting. They explained that they are
working with Republic to agree on how to address
some of the more controversial topics. It's a pretty
complicated issue and is turning out to be much less
black and white then they might have thought going
into the process. They have found that CUP
Contracts do carry over, whereas other documents
don't. During the meeting they held the morning of
the 17th, Sam agreed to start working on a joint
themes document for CUP and the Legal
Subcommittee and having another CUP and Legal
Subcommittee collaborative meeting.
- See: <u>https://www.co.benton.or.us/cd/page/bctt-</u>
subcommittee-a3-legal-issues-and-b1-land-use-
review
C.1. SMMP Subcommittee Report: John Deuel
- John explains what they have done so far and where
they plan to go next. For example, they hope to begin
creating their timeline. He emphasized that they are
trying to avoid emphasizing what they think "should
happen," and instead make it very clear to future
contractors what they want. This includes, but is not
limited to, the 2040 Community Values document,
state, and local goals for climate change, looking at
models from other states, looking at long-term plans
while also creating short-term action items, and
ensuring the practices they use are both innovative
and thoroughly documented as successful. He then
went on to cover the ten major topics that will be in
the table of contents.
- Brian Fuller: Brings up looking at households, which
John agreed is important.
- Joel Geier : Brings up looking internationally, which
John seconds.
- Sam: Reiterates for the work group that the SMMP is
essentially setting up an RFP. So, for example, the
RFP could say "please look internationally for new
tech and best practices," and then have an appendix
item that cites specific countries or types of
nem that clies specific countries of types of

		technology they want the practitioner to look at. When practitioners are responding to the RFP, they will peed to "coll" how they will be able to
		will need to "sell" how they will be able to
		successfully do what is asked.
		- See: <u>https://www.co.benton.or.us/cd/page/bctt-</u>
		subcommittee-c1-sustainable-materials-
		management-plan-smmp
		Sam: Explains that Charge D will go to the Legal
		Subcommittee, but there are also additional matters. Charge
		E would be a new subcommittee that creates a general
		history. The capacity and CUP Subcommittees have their
		own, more specific histories, but this will create a large
Reintroduce Charges	D and E	overview. The new subcommittee will also be responsible for
0		putting all the parts each subcommittee has created together
		and creating a draft report executive summary. They will
		also be looking at public Outreach, making sure information
		has a clear protocol for dissemination with the public.
		- Marge Popp, Mary Parmigiani, and Ginger Rough
		volunteer to be on the committee with Louisa Shelby.
Next Steps:	ing Five Evaluation	Sam goes over the Next Steps begins.
 Member Meet (Due Monday) 	ting Five Evaluation	
	or Meeting 6: TBD	
	: 12/15/22 @ 3:00 PM	
4) Open House I		
Dinner and Open Hou		
Open House: Six Stat		Open House
1) Process Over	view	
2) Landfill Capa	acity/Longevity	(See <u>Appendix C</u> for Open House Subcommittees' Posters
3) Past CUP Co	nditions Compliance	Notes.)
4) Legal Issues	and Land Use	
Review		(See <u>Appendix D</u> for copy of Paul Nietfeld chart displayed a
5) Sustainable N	/laterials	A.1. Subcommittee table.)
Management	Plan (SMMP)	
•	Education and	
-		
Communicat	ion Plan	

4. Polling Issues

1: Substituting the language that Joel Geier presented for Doug Pollock's current comments in the Public Comments section of the Meeting 4 Minutes.

WORKGROUP Member	Polling	Charge	Not Here	Abstain	Yes	No
Joel Geier	Х	All			Х	
Marge Popp	Х	All		Х		
Elizabeth Irish	Х	All		Х		
Russ Knocke	Х	All but C			х	
Shawn Edmonds	Х	All but C		X		
John Deuel	Х	All			Х	
Kathryn Duvall	Х	All	Х			
Christopher McMorran	Х	All	Х			
Ryan McAlister	X	All			Х	
Mary Parmigiani	X	All			Х	
Ed Pitera	Х	All			Х	
Louisa Shelby	Х	All			Х	
Catherine Biscoe	Х	All	Х			
Polling Totals:				3	7	0
EX-Officio	Polling	Charge	Not Here	Abstain	1	2
Brian Fuller				Х		
Brian May			Х			
Shane Sanderson				Х		
County	Polling	Charge	Not Here	Abstain	1	2
Daniel Redick					Х	
Sean McGuire				Х		
Ex-Officio Totals:				3	1	0
Grand Totals:				6	8	0

RESULT: Consensus / No Consensus

Facilitator counts a Majority, so the group is going to move forward with making the changes.

Minority Proposal: None

5. ZOOM MEETING RECORDS:

Zoom Recording and Transcript: Link

6. MEETING CHAT:

00:54:17	Debbie Palmer: I have a quick comment - Debbie Palmer
01:02:05	WG Joel Geier: No sound on Skip Rochefort's presentation.
01:02:45	WG Joel Geier: OK, now there's sound.
01:44:20	WG Joel Geier : I wasn't at the SMMP subcommittee meeting because it was scheduled in conflict with my prior travel plans.
01:54:08	IeRM P. Schmidt-Pathmann: Excellent question Joel, as there are a lot of data and proven concepts in other countries often at lower costs offering more sustainable solutions.
01:58:15	WG Joel Geier: Philipp, thank you, yes, my question was prompted in large part by your remarks about cross-contamination of recycling streams, after seeing how Sweden is dealing with this issue. Co-mingled is definitely not the path forward.

02:09:01 **IeRM P. Schmidt-Pathmann:** In the background of my Zoom-Picture you can see one of the twelve State of the Art Recycling facilities servicing the City, State of Hamburg, Germany, put together by members of our EU team.

7. APPENDIX:

Appendix A:

Pending recipte of statement from presenter.

Appendix B: Dr. Rochfort's Presentation Slides

Presentation to Benton County TALKS TRASH November 17, 2022

Dr. Skip Rochefort Associate Professor of Chemical Engineering Director, Polymer and Materials Characterization Laboratory School of Chemical, Biological and Environmental Engineering Oregon State University

Skip.Rochefort@oregonstate.edu



Waste Plastic to Diesel Fuel in a Bench Scale Pyrolysis Reactor: Circularity in Plastics Recycling on the OSU Campus

PTF Team: Annika Czeck, Maddy Pasche, Brisa Sable, Tiffany Trinh, Mitchell Willihite, Alex Zhen, Molly MoNutry (Harrisburg HS) Mentor: Dr. Skip Rochefort; School of Chemical, Biological, and Environmental Engineering





people dump waste on a beach



Botswana Africa "landfill" -people dump waste in a field

The Need

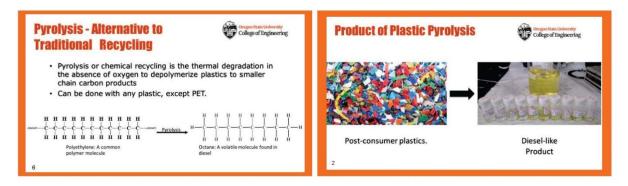
-Farms

-Rural Communitie

Agricultural Plastic Waste AgriPlas (Brooks, OR) -HDPE buckets -Twine used for hay bales









ON CAMPUS RECYCLING-Circularity





Collaborators

AgriPlas (Alan Jongshap, Brook, OR) https://agriplasinc.com/ Agricultural Plastics Recycling

PDO Tech (Kevin DeWhitt, CEO, Brooks, OR) <u>https://www.pdotech.com/</u> Commercial Scale PTF Reactors

Ocean Plastics Recovery Project https://oceanplasticsrecovery.com/ Scott Farling and Capt. Andy Schroder, Kodiak, AK NOAA sponsored Ocean Plastics Recovery Trips and Education

Clean Oceans International (Capt. Jim (Homer) Holms, Santa Cruz, CA) 17 Pilot-Scale Project with PDO Tech <u>https://www.cleanoceansinternational.org/</u>

Acknowledgements :



University Special THANK YOU Helen Liu Kiln Reactor Sponsor

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School of Chemical, Biological, and Environmental Engineering

Appendix C: BCTT Open House Subcommittee Poster Notes

Dot Color Meaning:

When members of the public shared ideas, questions, or other comments when talking to a subcommittee member, the member wrote that feedback on the large sheets of paper on the wall behind their table. If other public members reflected on an already written comment, the subcommittee member added a red, yellow, or green dot sticker next to the statement to indicate the new member of the public's reaction to the existing idea.

Red = I do NOT support the statement
Yellow = I support the proposal, but I would prefer to have it modified in some way to give it full support
Green = I fully support the statement

Legal Subcommittee:

- Need more holiday cookies •••
- Question of regulating where waste comes from vs. regulating tonnage
- Can the County impose a height limit on the landfill?
- Can Rural residential zoned land be included in landfill conditional use permit?
 - E.g. for an access road?

CUP Subcommittee:

- Looking for *specific* information on the history of CB. •
- What role -influence- does Benton County have in only contributing 12% of tonnage?
- Quality of life
- Visibility from road •
- Impacts on neighborhood ●
- Trucks crossing from PRC •
- Process for receiving community inputs ●
- Smell PRC esp. From the north
- Access to a road to leave neighborhood during bad weather esp. to get to the hospital.

Capacity Subcommittee:

• Const Matl sorting

- Expand
 - Esp. wood waste pellets, biofuel importance for CH4 reduction
- DIY channel v. Contractors

SMMP Subcommittee:

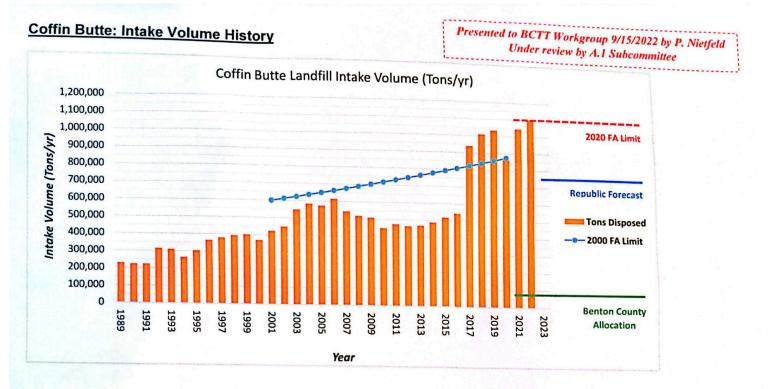
- Prepare the key questions constituents should answer in each topic
- Must get buy-in from SMMP economically and with government policy makers (see Deschutes County)
- Research zero waste communities
- Utilize standards (i.e. LEED) to establish policies / building standards to reduce /Prevent waste.
- How does the county measure progress toward achieving plan goals?
- PFDS PFOA > Teflon SCDTH QOAKD Making liquids and waste sludge.
- Explain how recommendations will help the County achieve Vision 2040.
- How much material prevention recovery reuse would be needed to achieve % decrease in waste disposed by capita Route it in value based on GHG or other high impact (toxicity social)
- Communicate cradle-to-grave(cradle) cost
- Integrate economic impacts and opportunities
- transfer stations with multiple functions
 - Inter modal
 - Transfer
 - Recycling transfer
 - C & D
- Outreach meetings where they are accessibility
 - invite input from local citizens and OSU /University Researchers with ideas. Strategies, new tech. To meet goals of the SMMP
- International examples

Education & Outreach:

- Meet groups where they are. Go to them to listen and present information ••
- Meetings or elected officials and/or task force
- Promote Master Recycler Program
- Soap Creek V.N.E.Q.S. (Valley, Neighborhood, Environment, Quality, and Safety) (" V-necks") (Debbie Palmer)
- Property management groups (Duerkson) ●
- The County's Linn, Benton, Lincoln, Marion, Polk ●
- Communicated with teachers to teach info in schools ●●

- Right now, we need to make sure the schools know about BCTT
- Youth involvement
 - OSU / High School (CHS, CV, SC, SAHS, AOS, WAHS) ●●
- OSU extension services ●
- Corvallis sustainability committee (coalition) •
- Republic Services •
- Language choices for educational materials ●●
- Community incentives for solid waste considerations repurchasing ●
- Resources available for analyzing / comparing Solid Waste choices, cost vs benefits ●
- Social media
- Websites
- How to reach out to elderly? ALL life-long learning
 - Community Center, Assisted Living
- Evaluate demographics for education •
- Newspaper events

Appendix D: Paul Nietfeld's chart from A.1. Subcommittee



Large-scale industrial operation: 1.1 M Tons/year => 7,000,000 lbs/day, 6 days/week

Dramatic growth starting in 2017 – What happened to cause and sustain this?

- The 2000 Franchise Agreement intake limit was violated in years 2017–2019 Why no County action?
- 2022 volume is estimated from first half 2022 filings with DEQ.
- Recent years show sustained high demand for landfill volume Does Republic plan to maintain this level?
- Even a 5,000,000 cubic yard expansion cell would fill in less than 5 years at the current intake rate

This plot shows why we (workgroup, staff, administration, the public and the franchisee) are here: Large intake volume in the last 6 years is quickly depleting the available Cell 5 volume.

Riverbend disruption

2016 MOU BC/RS

TBD

S