



# Benton County

## Solid Waste Advisory Committee

### (SWAC) March 19<sup>th</sup>, 2014 Minutes

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MEMBERS PRESENT:	Jeff Freeman, Jeff Morrell, Jay Simpkins, Linda Brewer (Vice-Chair) & Jim Leklem (Chair)
MEMBERS EXCUSED:	Chuck Kratch & Larry Sleeman
GUESTS PRESENT:	Brian May, Adam Steele, Ian Macnab & Gary Blake
STAFF PRESENT:	Gordon Brown & Adam Stebbins

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I. **Call to Order** - The meeting was called to order at 7:08 p.m.

**Citizen Comments** - None

II. **Approval of the November 2013 Minutes**

**MOTION was made to approve the November 2013 minutes as written; motion seconded; all in favor, so approved.**

III. **Election of Officers**

**MOTION was made to nominate and elect Linda Brewer for Chair; motion seconded; all in favor, so approved.**

**MOTION was made to nominate and elect Jeff Morrell for Vice-Chair; motion seconded; all in favor, so approved.**

IV. **Benton County Public Works, Stationary Compactor Project** - Adam Stebbins, Sustainability Coordinator, Benton County Public Works

Focus of the sustainability goals have been to reduce internal waste operations. External focuses include the fair and other community events to divert material from the landfill to recycling or composting.

Indoor waste audits and dumpster dives from 2012 & 2013 have shown that the garbage thrown away is mainly paper products and food scraps.

- Staff and neighbors are also using garbage containers.
- Plans are under way to put the infrastructure in so people can make good decisions and make it harder to throw products away.

Big picture: will be to have the Avery, Board of Commissioners/IT, Sunset building and Public Services Building, Courthouse, Law Enforcement Building facilities to have centralized waste collection by employees and contracted custodial staff.

Solutions: move to a stationary compactor.

- Benton County Facilities and Sustainability Coordinator reviewed how many trips were made to Benton County facilities and estimate that a total of 12 pickups (maximum) annually will occur, with the use of centralized waste collection and compaction. The result is reduced greenhouse gas emissions (truck mileage), reduce costs, and retaining mixed organics and recycling services.
- Approximate savings is estimated to be \$18,000 within the first year after installation and use of compactor.
- The Capital improvements committee approved the compactor purchase on March 14th and the Board of Commissioners (BOC) will be addressing the approval of purchasing and installation next week.

- All costs involved for purchase, installation, and waste centralization will be \$31,000 during the 2014 fiscal year.

Field trips were taken to Hewlett Packard (HP) Campus and the Home Depot to view the stationary compactors.

OSU research at the HP campus did not require pickup and disposal for 2 years and they had no issues with the stationary compactor system. The Home Depot staff had great things to say and gave tips for efficiency and odor reduction.

The Benton County Jail will not be part of the new system at this time. They serve many ready-made meals each day that require an on-site dumpster, but other options continue to be explored for this site.

Other projects include:

- Securing the recycling and mixed organics carts at the health department to support the Health Department Healthy Foods Policy and reduce illegal dumping
- Staff education on the electronic/e-waste program, composting and recycling operations.

Yard Debris Management at Avery:

- Benton County Parks, and Public Works will pool resources to purchase a dump trailer to transport, store, and dump
- May take compostables from all the facilities and use them in the sunset garden.

Fair:

During 2012 the Green Team was assembled for sorting recyclables and compostables and the Green Vendor Program was established in 2013 to help vendors switch to compost friendly products (40% signed up). This is not required yet for vendors at the fair, but may be in the future.

Will need a master recycler this year to run the team and check on the vendors.

**\*Brewer to send out email to constituents.**

**School Lab Clean-up Program** – *Gordon Brown, Registered Environmental Health Specialist, Benton County Health Services (BCHS)*

Brown was contacted by Maggie Conley of the Department of Environmental Quality to see if Benton County would be interested in this project.

- It will help clean up chemicals at local schools in Benton County.
- Teachers will be trained and assessment will be done of what should be disposed of by a contractor.
- The BOC gave \$5,000 to the project.
- It costs around \$700 to clean chemicals up per high school and less than that for junior high schools. Philomath and Monroe have shown interest in this project.
- May 5-9<sup>th</sup> will be the lab clean-up for the schools and there will be a household chemical disposal available on May 10<sup>th</sup>.

**IV. Upcoming Schedule**

Next meeting to be held April 23<sup>rd</sup>, 2014 at the Sunset Building - Sunset Meeting Room.

**V. MOTION was made to adjourn; motion seconded; all in favor, so approved.**

*Meeting adjourned at 7:36 p.m.*



# Benton County

## Solid Waste Advisory Council

### (SWAC) August 27<sup>th</sup>, 2014 Minutes

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MEMBERS PRESENT: Jeff Morrell (Vice-Chair), Jay Simpkins, Linda Brewer (Chair), Jim Leklem, Jeff Freeman & Chuck Kratch

MEMBERS EXCUSED: Larry Sleeman

GUESTS PRESENT: Ian Macnab, Gary Blake, Adam Steele, Eric Tuppan & Randy Bringle

STAFF PRESENT: Gordon Brown & JonnaVe Stokes (recorder)

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I. **Call to Order** - The meeting was called to order by Chair Brewer at 6:40 p.m.

**Citizen Comments** - none

II. **Approval of the July 2014 Minutes**

The July 2014 minutes were presented for approval.

**MOTION was made to approve the July 2014 minutes as written; motion seconded; all in favor, so approved.**

III. **Update on Westwood Road District Request for Services** - *Linda Brewer, Council Chair, SWAC*

- Chair Brewer met with Republic Services Representatives twice regarding this request.
- Yard debris services will start in this area immediately.
- RSI may evaluate offering these services to other residents at a future date.

IV. **Coffin Butte Landfill Annual Operations and Capacity Report** - *Eric Tuppan, Registered Geologist, Tuppan Consulting, LLC / Randy Bringle, Division Manager, Republic Services, Inc.*

*Handouts: Coffin Butte Landfill (CBL) Aerial Photo*

- Landfill capacity holds a total of 40 million cubic yards. Everything revolves around density (how many tons you can put into a cubic yard) which is currently 0.98 = around 1,800 pounds to a cubic yard.
  - Density consumes air space, more density equals more waste.
- RSI brought in 500,000 tons of garbage in 2013.
- The density model number shows RSI how much space was used to determine life left in the landfill.
  - Using the density model number 0.8 = 39 years left of landfill life.
  - Actual density model number is 0.98 = 48.9 actual years left of landfill life.
  - Landfill life has increased because much of the landfill materials are recycled now and kept out of the landfill; crushers used now at CBL are also heavier and compress more garbage; and trash decomposes as new trash compresses on lower materials.
- Customers have also reported they are really happy to have one spot to recycle (batteries, glass, yard debris, televisions, etc.) and RSI continues to look for more opportunities to recycle (carpet, etc.)

*Handout: Table 3-1 Environmental Monitoring Plan Coffin Butte Landfill (CBL)*

RSI just completed 2.5 years (9 sampling events) of testing on monitoring wells (mw) 26 and 27.

- mw 26 contains 10 feet of fill material which lays on top of old clay silt.
- mw 27 sits on a berm of cell 4 and is mostly fill, on top of organic rich clay, on top of more clay and silt.

Monitoring points: RSI monitors water levels of wells in the quarry and in the wetland areas, primary and secondary leachate collection systems, storm water and surface water of CBL.

*Table 4-1 Environmental Monitoring Plans for Coffin Butte Landfill*

Monitoring program: measuring the water quality of compliance and detection wells, every second and fourth quarter.

- Eight Indicator parameters (chloride, bi-carbonate, total dissolved solids (TDS), calcium, iron, magnesium, manganese, sodium and arsenic) are tested twice a year.
- Metals (antimony, arsenic, barium, beryllium, cadmium, cobalt, chromium, copper, lead, nickel, selenium, silver, thallium, vanadium and zinc) are tested once a year.
- Volatile Organic Compounds (VOCs) in groundwater are tested twice a year.
- Detection wells are tested every year for these parameters.
- Comprehensive analytical group testing (TDS, total organic compounds (TOC), ammonia, chemical oxygen demand (COD), cations, anions, 15 trace metals and VOCs) is completed every 5 years (most recently completed in April of this year.)

*Table 4-1 CBL East-Side Wells: Bicarbonate Alkalinity*

Indication parameters and VOCs show what is normal in these wells. If you get anything above the normal parameters, then you know you have a release. Time series concentration plots show water quality and water quality differs based on the geology of each well.

mw 26 tested at 175 milligrams (mg)/liter(L)

mw 27 tested at 483 mg/L (higher limits than other wells even though it has never had any impacts.)

*Table 4-1 Chloride*

mw 26 nice distribution at 6.1 milligrams (mg)/liter(L)

mw 27 was normal

*Table 4-1 Total Dissolved Solids*

mw 26 has steady concentrations at 246 mg/L

mw 27 - 498 mg/L

*Table 4-1 Calcium*

mw 26 numbers are very close to mw 22 the old compliance testing well

mw 27 had normal bell curve distributions and tested at 98,000 micrograms ( $\mu\text{g}$ )/L

*Table 4-1 Iron*

mw 26 had 2 outliers that are naturally occurring. Iron will be used as an indicator parameter for prediction limits for this well .

mw 27 had normal concentrations at 19,000  $\mu\text{g}$ /L

*Table 4-1 Magnesium*

Used to detect hardness close to calcium and used to calculate hardness

mw 26 - 9,800  $\mu\text{g}$ /L

mw 27 - 44,000  $\mu\text{g}$ /L

*Table 4-1 Manganese*

Helps detect oxygen concentration in the water

mw 26 - 8,100  $\mu\text{g}$ /L

mw 27 - 740  $\mu\text{g}$ /L

*Table 4-1 Sodium*

Is an indicator parameter

mw 26 – 29,000  $\mu\text{g}$ /L

mw 27 – 46,000  $\mu\text{g}$ /L

*Table 5-2 Summary of Prediction Limit Statistics (normality test)*

Test results propose prediction limits from this table.

*Table 5-3 Site Specific Limits – East Side Wells Assumes 2 compliance Wells, 7 COCs, Semiannual Sampling*

Shows prediction limits for both wells, if an exceedance occurs then a resample is completed to minimize the false positive rate.

If the wells test below parameters of this table or contain no VOCs it is very good.

*Were previous wells that were polluted rates tracking down?* Yes, there are still 2-3 wells that contain less than 3 parts per billion of 1 or 2 VOCs and mw 12-s measured at 5 µg/L of tetrachloroethylene (pce) that had been as high as 13 µg/L at one time. All well tests are way down from where they originally were and continue to drop at steady rates.

*Is this an aquifer or underground river?* This is an aquifer that comes from water of fractured basalt sources. Silt and clay porosity is 40-50%, but it doesn't move. Secondary porosity occurs in the silt from old roots and burrows, etc.

CBL Leachate Volumes

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- 10 year average 23-37 million gallons, this year only 19.1 million gallons were collected

CBL Odors

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- CBL this year received four complaints, last year there was only one.
- This may be attributed to the new vertical and horizontal wells, epdm ground cover, lack of wet months, etc.

*Handout: Pacific Region Compost (PRC) Facility Aerial Photo*

PRC Odors

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- 95 odor complaints were received last year, with only 35 received this year so far.
- This is due to use of new inoculents (microbes used to digest the compost piles).
- RSI will continue to look for additional alternatives that have worked elsewhere that may work here.
- A collection system and new screening equipment were also added to the air ponds.
- Plans are under way to complete 100,000 cubic yards of finished product this year. Last year 76,000 cubic yards were produced and 67,000 cubic yards the year before.

Post Report Q&A

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*Are volumes increasing at the PRC each year?*

No, but RSI needs to retain 30,000 cubic yards of product as inventory for the next year. Inbound volumes at the PRC are not increasing.

Outbound compost sales need to be moved at 100,000-120,000 yards a year to stabilize the site.

RSI continues looking at other markets to enter, ie: added the agricultural market this year.

*Is there much variation in the nutrient content of the compost?*

All PRC compost is certified by the Organic Materials Review Institute (OMRI) and checked each month. Variation remains steady and analysis is provided based on sampling but is not guaranteed.

*Are you going to look for additional opportunities to expand this operation?*

The PRC is currently at a plateau with some room for growth, while there is currently a capacity shortage of compost in the state.

*What do A&B represent on the map?*

Static pads used to rotate materials. Each row timed at 84 days.

*How are the bio-swales monitored and how are they functioning?*

Bio-swales are monitored via stormwater sampling that includes: copper, lead, zinc, total oil and grease, pH and total suspended solids.

*When new food waste comes in does it go through the grinder?*

Yes, it is blended into a 3-1 mix of green waste- food waste, then placed into individual bunkers with bio-filters placed over them. Some food waste comes from curbside collection, but most is from vegetables and fruits

**V. Upcoming Schedule**

Next meeting to be held 6:30 p.m., September 24<sup>th</sup>, 2014, Coffin Butte Landfill Offices.

**VI. Adjourn**

**MOTION was made to adjourn; motion seconded; all in favor, so approved.**

*Meeting adjourned at 7:48 p.m.*



# Benton County

## Solid Waste Advisory Council

### (SWAC) October 22<sup>nd</sup>, 2014 Minutes

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MEMBERS PRESENT: Linda Brewer (Chair), Jeff Freeman, Jeff Morrell (Vice-Chair), Chuck Kratch & Jay Simpkins  
MEMBERS EXCUSED: Jim Leklem & Larry Sleeman  
GUESTS PRESENT: Gary Blake, Ian Macnab, Peter Lepre, Julie Jackson, Randy Bringle & Chris Bailey  
STAFF PRESENT: Gordon Brown & JonnaVe Stokes (recorder)

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- I. **Call to Order** - The meeting was called to order by Chair Brewer at 6:40 pm
- Citizen Comments** - none
- II. **Approval of the August 2014 Minutes** - The August 2014 minutes were presented for approval.  
**MOTION was made to approve the August 2014 minutes as written; motion seconded; all in favor, so approved.**
- III. **Service Request for Botkin Rd., Philomath** - *Gordon Brown, Environmental Health Specialist, Benton County Health Services (BCHS)*
- A request has been made for recycling carts to be offered to thirty additional homes.
  - *Should there be criteria Republic Services, Inc. (RSI) requires before adding a service?*
  - RSI usually waits until there is more interest until they offer additional services; they plan to look into this and come back with a decision on how they will deal with neighborhood requests.
  - RSI criteria to be discussed at the next meeting.
- IV. **Republic Services Refuse Rate Index and Annual Report** - *Julie Jackson, Municipal Manager, RSI*  
**MOTION was made to approve the Republic Services Annual Report as written; motion seconded; all in favor, so approved.**
- Handout: Refuse Rate Index*  
*Handout: 2013 Republic Services Annual Report for Benton County*
- World class customer service is what RSI is concentrating on this year (page 11).
  - Offer a new application (my resource) for online users.
  - Continue call blasts on holidays and during inclement weather.
  - Measure delivery of service each day to identify any issues on a route and keep customers satisfied.
  - Average 99.2% in meeting service expectations (up from 85%) in the last twelve weeks.
  - Rate increases are driven by investments that continue to be invested (but at a lower rate) in the Pacific Region Composting facility.
    - Compost facility costs and environmental costs continue to increase
    - Last year RSI raised the fees 5% from \$30.00 - \$31.50.
- MOTION was made to approve the Refuse Rate Index as submitted and send a recommendation to the Benton County Commissioners; motion seconded; all in favor, so approved.**
- The committee reviewed the annual report and discussed receiving it earlier in the year (Spring).
- V. **DEQ Rate Goals**
- The Department of Environmental Quality (DEQ) will be proposing new recovery rates at the legislature in 2015.
  - Past 2% credits that Benton County (BC) received will go away.

- SWAC Chair Brewer, RSI Municipal Manager Jackson, Oregon State University Representative Pete Lepre and Environmental Health Specialist Brown met to discuss what the new recovery rate will mean for Benton County?
- A letter was also drafted and presented to the SWAC.
  - Currently BC has not met the current goal set at 50%.
  - No penalties should be given by the DEQ for non-compliance until 2015.
  - A compromise could be made with the DEQ representatives to settle on a recovery rate of 44%.
  - The 2013 recovery rate was 47%.

**\*SWAC agreed to submit this letter to the Department of Environmental Quality discussing the proposed recovery rates with a possible compromise for a 42% Recovery Rate in Benton County.**

**VI. Upcoming Schedule**

Next meeting to be held 6:30 p.m. ♦ November 26<sup>th</sup>, 2014 ♦ Sunset Building ♦ Sunset Meeting Rm.

**VII. Adjourn**

**MOTION was made to adjourn; motion seconded; all in favor, so approved.**

*Meeting adjourned at 8:24 pm*