

Organic Waste Composting Project Protocol Version 1.1 Public Webinar



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August 13th, 2013

We will begin shortly

For audio, please dial: (646) 307-1720

Access code: 431-059-986

Please enter your Audio PIN to allow us to un-mute your line



Agenda

- Presentation of major changes from V1.0 to V1.1
- Questions?



Why Version 1.1?

- Incorporate errata and clarifications
- Incorporate policy memos issued since 2010
- Respond to user feedback
- Increase the usability of the protocol
- Increase flexibility where possible
- Keep in line with other protocols



Policy memos

Use of eGRID Electricity Emission Factors (May 3, 2011)

- Removed eGRID emission factor table from appendices
- Use version of eGRID from EPA website that most closely corresponds to time period electricity was consumed

Project Diagram Required at Verification (February 13, 2012)

- New requirements for a project diagram
- Part of Monitoring Plan and includes all parties involved



Policy memos

Environmental and Social Safeguards Policy (September 27, 2012)

- New language under Regulatory Compliance section
- Only those parties involved with project implementation are responsible for conformance



Errata & Clarifications

- There have been 14 E&C issued
- July 12, 2011 and February 3, 2012
- Can be found at protocol page:
 - <http://www.climateactionreserve.org/how/protocols/organic-waste-composting/>

Updated Project Definition (Section 2.2)



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- Project definition now includes multiple facilities involved in a single compost process;
 - Must be a single composting operation
 - Must account for fuel used to transport between multiple facilities
 - Will need to consider MRV requirements for each facility
 - Regulatory Compliance requirements to apply to each facility



Project Activities defined (Section 2.2.1)

- Introduces definition of ‘project activities’, making it explicit which activities are thus covered by the Regulatory Compliance requirements in Section 3.5.
 - *Operational boundary*: Any activity related to receiving, handling, and composting eligible waste streams. Activities that only concern ineligible waste are not considered project activities (i.e. a separate compost process for ineligible waste)
 - *Physical boundary*: Activities occurring at the compost facility, from the delivery of waste to shipment/removal of finished compost.
 - *Temporal boundary*: Activities occurring during the reporting period.

Time, temperature, turning BMP requirements (Section 2.2)



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- Clarified temperature requirement for forced aerated composting systems
 - Previously defined as temp maintained at 55°C or higher for 3 *full* days
 - Now 3 or more *consecutive* days
- For windrows – no change
 - Temp maintained at 55°C or higher for 15 or more days

Food waste handling BMP requirement (Section 2.2)



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- Introduced flexibility to meet BMP requirements for food waste handling:
 - “Placed in a building under negative air pressure, with exhaust gas vented through a biofilter (**or otherwise placed in an enclosed environment with emissions controls that are equivalent to a biofilter in their control of methane and nitrous oxide**) no more than 24 hours after delivery.”

Updated Project Start Date guidance (Sections 3.2)



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- Updated guidance for projects originally submitted under older versions
 - Project must be submitted to Reserve no more than 6 months after project start date; except for
 - Projects submitted prior to June 20, 2011 may have start date between June 30, 2008 and June 30, 2010

Additionality guidance (Sections 3.4 -3.5)



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- Clarified requirements for new grocery stores
 - Grocery stores in operation less than 36 months must demonstrate waste stream was disposed of in a landfill for entire history of store.
- Updated Regulatory Compliance requirements to reflect Reserve's Environmental and Social Safeguards Policy (September 27, 2012)

Determining fraction of eligible waste – mixed MSW (Section 5.1.1.1)



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- Modified to clearly set out 4 options for quantifying mixed MSW waste streams:
 1. National default factor (*updated from 18% to 20%*)
 2. Published waste characterization study;
 3. Site-specific characterization study – (MRF fines only)
 4. NEW Site-specific study – non-SSO MSW from a MRF



Determining fraction of eligible waste – mixed MSW (Section 5.1.1.1)

- Option 4: Single MRF – Mixed MSW waste streams
 - Site-specific sampling
 - Applies only to non-SSO MSW from a single MRF
 - Requirements:
 - Random sampling;
 - Hand sorting at least 4 x 150 lb samples into categories (food, soiled paper, ineligible waste);
 - Quantify proportional weights of food/soiled paper in each sample and determine averages for the entire load
 - Min 8 sampling events (2 per quarter) in 1st year – 4 events in subsequent years (1 per quarter)
 - Photos/documentation recorded for verification

Quantification – N₂O emissions from composting system (Section 5.2.2.2)



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- V1.0 required the use of default emission factors based on compost technology
 - Except where official source tested emission data were available
- V1.1 removed option for site specific testing

Compost BMP monitoring (Section 6.3.1)



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- Updated guidance for placement of temperature probes:
 - V1.0: “at least 12-24 inches below the pile surface”
 - V1.1:
 - Windrow: “no more than 24 inches below the pile surface”
 - ASP: “no more than 18 inches below the pile surface”
 - Regulated Systems (*next slide*)

Compost BMP monitoring (Section 6.3.1)



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- Alternative temperature probe arrangement for “Regulated Systems” where:
 - The compost facility can demonstrate regulatory approval for a system (e.g. local or state operating permit) – as installed;
 - Approval includes written confirmation that system is sufficient to ensure aerobic activity
 - Approval contains monitoring arrangement
 - Compliance with the monitoring arrangement = compliance with protocol BMP requirements;
 - **Verifier to confirm temperature monitoring in conformance with permitted arrangement**

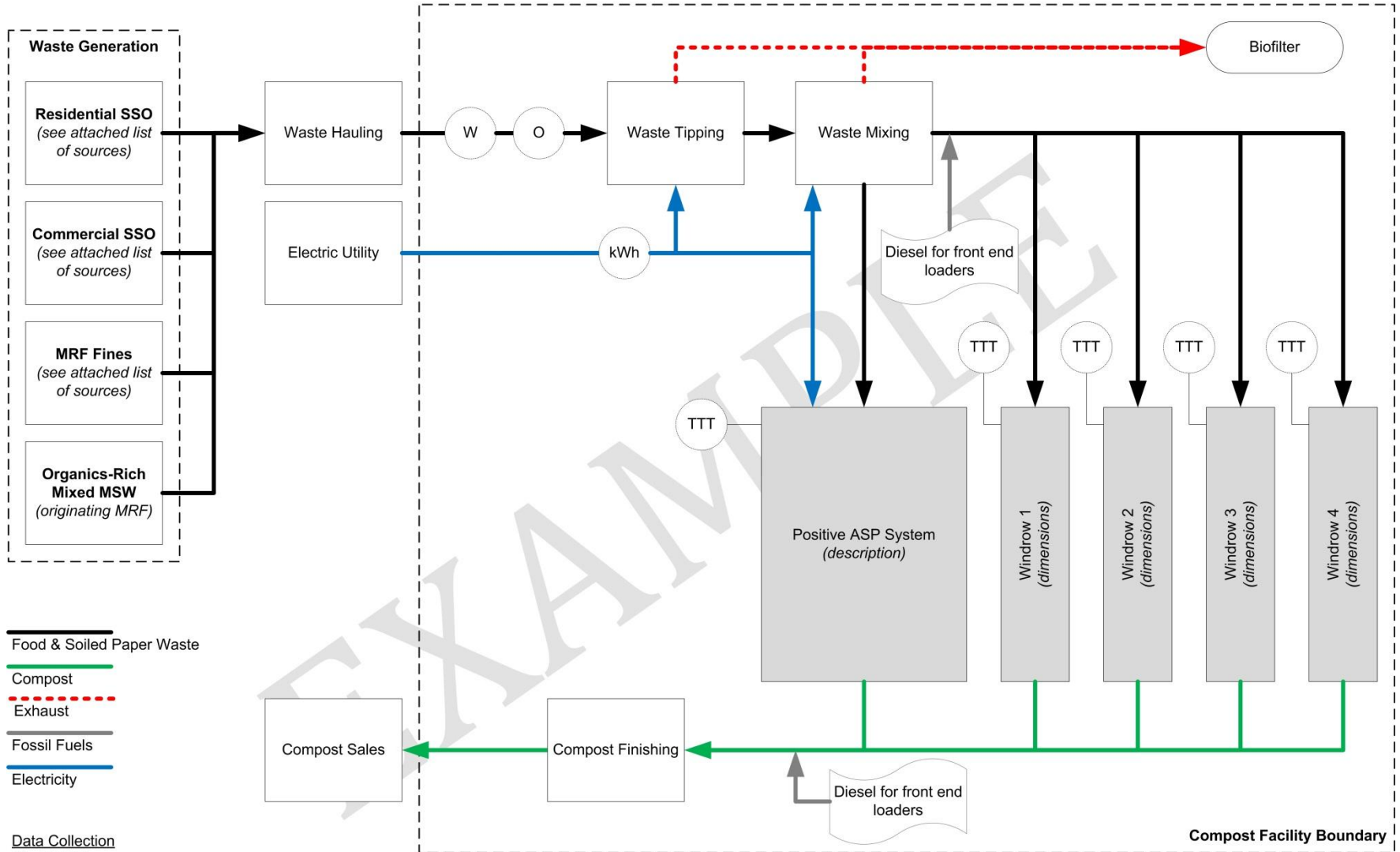
Updated Gas Collection Fractions (Appendix A)



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- Gas Collection Fractions by State – Table A.3 has been updated based on more recent data (same source as V1.0)

Generalized Organic Waste Composting Project System Diagram



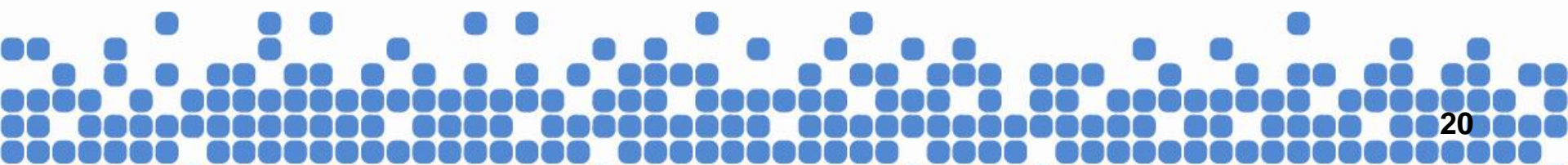
Compost Facility Name: **EXAMPLE COMPOSTING**
 Project start date: **MM/DD/YYYY**
 Facility owner: **EXAMPLE WASTE, LLC**
 Reserve Account Holder: **EXAMPLE, INC.**
 Technical Consultant: **EXAMPLE CONSULTING, LLC**

Diagram last updated: 05/01/13



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Questions?





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Questions?

Technical Protocol Questions:

Sami Osman

Policy Manager

213-542-0294

sosman@climateactionreserve.org

Project Questions:

Andrew Craig

Programs Associate

213-542-0285

acraig@climateactionreserve.org

Max DuBuisson

Senior Policy Manager

213-785-1233

max@climateactionreserve.org