

# Organic Waste Composting Project Protocol Version 1.1 Public Comment Webinar



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**May 29, 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
- Public comment and discussion of proposed changes
- Next steps



# 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



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*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/>

# Time, Temp, Turning BMP requirement (Section 2.2)



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- Clarified temperature requirement
  - Previously defined as temp maintained at 55°C or higher for:
    - 3 full days; or
    - 15 full days or longer.
  - Now defined as temp maintained at 55°C or higher for:
    - 3 or more ***consecutive*** days; or
    - 15 or more ***consecutive*** 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.”



# New guidance defining “Project Activities” (Section 2.2.1)



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- 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.

# 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)

- 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 200 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 1<sup>st</sup> year – 4 events in subsequent years (1 per quarter)
    - Photos/documentation recorded for verification



# Quantification – N<sub>2</sub>O emissions from composting system (Section 5.2.2.2)

- V1.0 required the use of default emission factors based on compost technology
  - Except where official source tested emission data were available
- V1.1 changes and clarifies the option for site-specific emissions testing
  - Restricted to projects using negatively-aerated static pile systems
  - State or local accredited providers, or STAC-accredited

# 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)
  - Approval includes evaluation of temperature monitoring system in place at the facility
  - Compliance with that approval = compliance with OWC BMP requirements
  - Verifier to confirm temperature monitoring in conformance with approval – for each reporting period

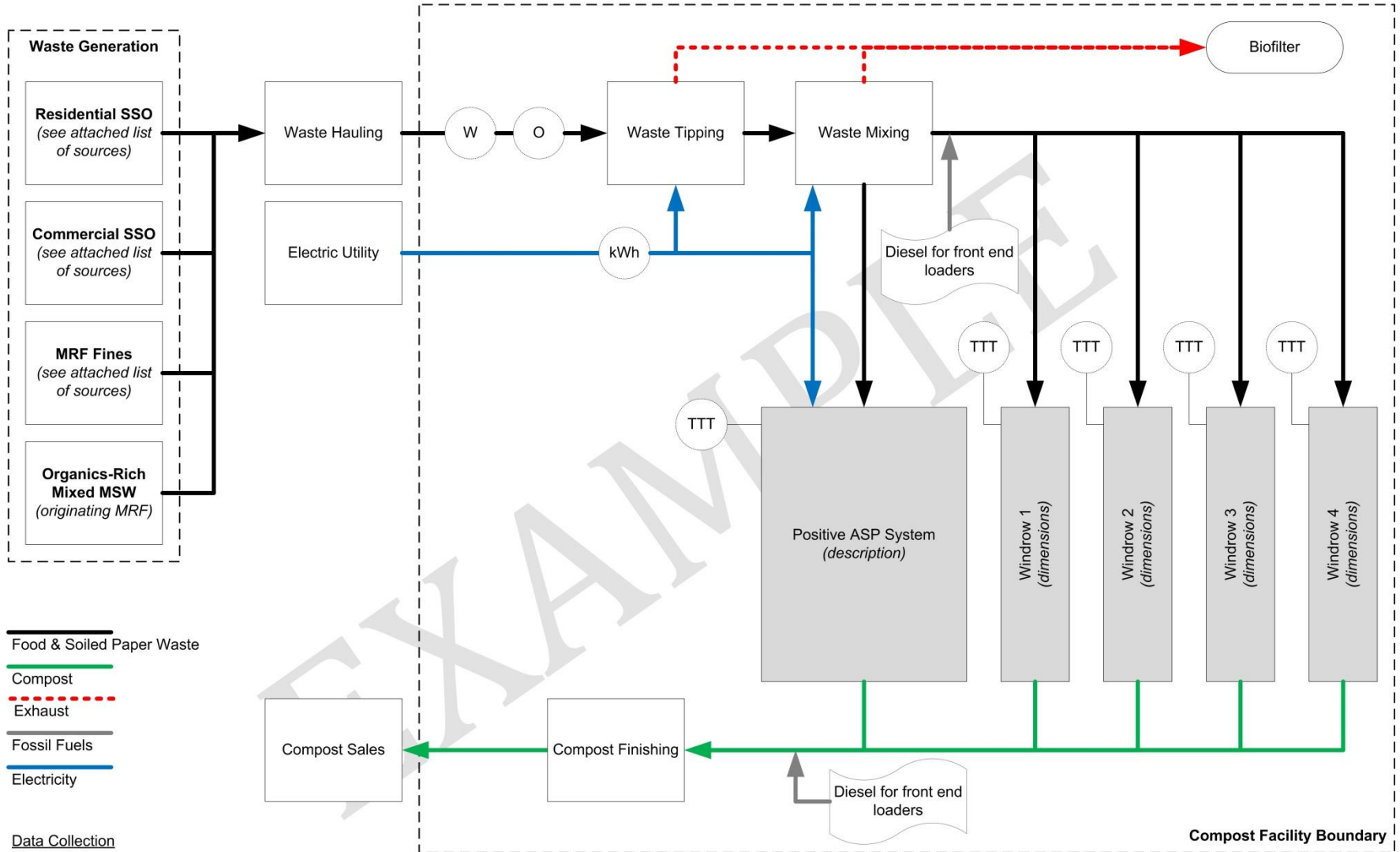


# Updated Gas Collection Fractions (Appendix A)

- 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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# Public comments and discussion



# Next Steps

- Submit written comments via OWC Revision webpage – deadline:  
**5 PM PDT, Monday, June 10th**
- Submitted comments will be made public
- Response to public comments and final updated protocol to be posted to Reserve website in late June



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# Questions and Feedback

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