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***Please Note: This is a complete list of the questions found in this survey. Depending on how the respondent answers the subsequent questions asked will vary.**

Data Tracking Form for Water Resource Recovery Facilities (WRRFs) Co-Digesting Food-based Materials

Project/Facility Information

1. Please provide the following information about your Project/Facility.
Project/Facility Name
Street address
City/Town
State
Zip code
Phone Number
2. Please provide the following information for the contact person for facility operations
Name
Title
Email Address
Phone number
3. Please provide the contact address (if different from Facility Address)
Street address
City/Town
State
Zip code
4. If you do not wish to have your facility's general information (facility name, city, state, facility type and operational status) included in future EPA reports, please check the box below
☐ Please do not include the information above in future publications summarizing the data collected via this survey.

Organic Waste Processing

5. In addition to wastewater solids, is organic waste accepted and processed in your anaerobic digesters (practice of co-digestion)?
 - ☐ Yes
 - ☐ No

6. If organic waste is currently not accepted at your anaerobic digesters, is your facility planning for or interested in receiving organic wastes from offsite?
- ☐ Yes
 - ☒ No

Facility operating status

7. Please identify the status of your facility
- ☐ Planning stage/ Design stage/Permitting process
 - ☐ Under construction
 - ☐ Operational
 - ☐ Temporary shut-down
 - ☐ Ceased operation
 - ☐ Other
8. What is the targeted date for your co-digestion system to be operational?
9. What date did your co-digestion system become operational?
10. What date did your co-digestion system temporarily shut-down?
11. What is the targeted date for your co-digestion system to re-start operations?
12. What date did your co-digestion system cease operations?
13. Please state the reason your co-digestion system ceased operations.

WRRF Digestion Capacity

14. Please identify your facility's available capacity to accept feedstocks from offsite sources for all digesters combined. When calculating this available capacity, please take into account the average volume of wastewater solids processed at your facility and conveyed to your plant via your collection system.
- [Type in number here]

15. Please briefly describe how you calculated the available capacity to accept feedstocks from offsite sources.

WRRF Co-Digestion Capacity

16. Please identify the number of months during the year 2015 that your co-digestion system received and processed feedstocks (other than wastewater solids) from offsite sources.
17. Please indicate how organic feedstocks from offsite sources are handled upon receipt at your facility.
- ☐ Fed into a separate digester
 - ☐ Combined with wastewater solids
 - ☐ Other (please specify)

18. Does your facility accept and process food-based feedstocks?

19. Please describe the total amount of food-based feedstock accepted by your facility in 20XX. Do this by typing in the amount of food waste, and selecting the units, feedstock type, and feedstock source.

[Type in number here] of
 from

20. Does your facility accept and process non-food-based feedstocks?

21. Please describe the total amount of non-food-based feedstock accepted by your facility in 20XX. Do this by typing in the amount of non-food waste, and selecting the units, feedstock type, and feedstock source.

[Type in number here] of from

22. Do you collect tipping fees?

- ☐ Yes
- ☐ No

23. Are you willing to share information about the tipping fees you collect?

- ☐ Yes
- ☐ No

24. How much revenue did your facility collect in tipping fees in 20XX?

25. If you would like to provide any other relevant or important information related to tipping fees, please do so below.

26. Are pre-processing or de-packaging activities conducted on your feedstocks before they are added to your digester?

- ☐ Offsite
- ☐ Onsite (at your facility)
- ☐ Both
- ☐ None of the above

27. Please describe any pre-processing/de-packaging that is required before feedstocks from offsite sources are fed into the co-digestion system at your facility. Pre-processing may be conducted by a third-party. If that is the case, please state that in the space provided below.

- ☐ Manual or mechanized de-packaging
- ☐ Screening for debris or sorting
- ☐ Grinding and/or maceration

- ☐ Third party processing
- ☐ Shredding
- ☐ Heating
- ☐ pH adjustment
- ☐ Centrifugal separation
- ☐ Liquid/solid separation
- ☐ Other (please specify)

28. Please identify the operating temperature range for your digester.

- ☐ Mesophilic
- ☐ Thermophilic
- ☐ Unheated/Ambient

29. Please identify the design that best fits your design type/configuration:

- ☐ Continuously Stirred Tank Reactor (CSTR)
- ☐ Plug-flow
- ☐ Covered Lagoon
- ☐ Fixed film
- ☐ Suspended Media
- ☐ Percolating Bed
- ☐ Upflow Anaerobic Sludge Blanket (UASB)
- ☐ Anaerobic Sequencing Batch Reactor (ASBR)
- ☐ Membrane Bioreactor (MBR)
- ☐ Hybrid/Multi-stage
- ☐ Other (please specify)

Product End-Uses

30. Please provide the average biogas production volume at your facility during calendar year 20XX in one of the units identified below.

[Type in number here]

31. Is the biogas produced at this facility?

- ☐ Used onsite
- ☐ Sold
- ☐ Flared
- ☐ Other (please specify)

32. Please identify how the biogas produced at this facility is used. It could be used onsite by the facility or offsite by a purchaser. Check all that apply.

- ☐ Produce mechanical power
- ☐ Produce heat and electricity (CHP)
- ☐ Produce electricity (including net metering)

- ☐ Produce electricity (sold to grid)
- ☐ Fuel boilers and furnaces to heat digesters
- ☐ Fuel boilers and furnaces to heat other spaces
- ☐ Compressed to vehicle fuels: used for company fleet/personal vehicles
- ☐ Compressed to vehicle fuels: sold to customers
- ☐ Renewable natural gas (processed in order to inject to pipeline)
- ☐ Other (please specify)

33. Are you able to utilize all of the biogas produced?

- ☐ Yes
- ☐ No

34. Do you flare the excess biogas?

- ☐ Yes
- ☐ No

35. Do you have a gas cleaning system?

- ☐ Yes
- ☐ No

36. What is removed by your gas purification system? Check all that apply.

- ☐ Moisture
- ☐ Sulfur
- ☐ Siloxanes
- ☐ Carbon Dioxide
- ☐ Compressed Gas
- ☐ Hydrogen sulfide
- ☐ Particulates
- ☐ Oxygen
- ☐ Nitrogen
- ☐ VOCs
- ☐ Other (please specify)

37. Are the post digestion biosolids Class A or Class B?

- ☐ Class A
- ☐ Class B

38. Do you use the solid digestate you produce in any of the following ways? Check all that apply.

- ☐ De-watered/dried and land applied
- ☐ Land applied as is with no dewatering or drying
- ☐ Composted into a reusable or salable product
- ☐ Processed into other salable products (e.g., flower pots)
- ☐ Landfilled
- ☐ Incinerated

☐ Other (please specify)

39. If any digestate was disposed of in landfills or incinerated in 20XX, please specify the amount in tons or gallons (if known).

[Type in number here]

40. Is the de-watered/dried digestate further treated prior to land application?

- ☐ Yes
- ☐ No

41. Please indicate what the further treatment is and why it is necessary.

42. How do you manage the liquid digestate you produce? Check all that apply.

- ☐ Beneficially reused as fertilizer via land application
- ☐ Recirculated through digester
- ☐ Other (please specify)

43. Is the liquid digestate further treated prior to land application?

- ☐ Yes
- ☐ No

44. Please indicate what the further treatment is and why it is necessary.

45. Do you recover nutrients from your digestate?

- ☐ No
- ☐ Yes, phosphorous recovery by chemical precipitation (e.g., struvite)
- ☐ Yes, ammonia recovery
- ☐ Other (please specify)