



Covanta Honolulu Resource Recovery Venture, LLC 91-174 Hanua Street Kapolei, HI 96707 Tel: 808.682.2099 Fax: 808.682.5203

RETURN RECEIPT REQUESTED

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July 14, 2022

Lene Ichinotsubo, P.E., Acting Chief Solid and Hazardous Waste Branch Environmental Management Division Hawaii State Department of Health 2827 Waimano Home Road, Rm. #100 Pearl City, HI 96782

Subject: Honolulu Resource Recovery Venture (HRRV) 2021-2022 Annual Solid Waste Report

Ms. Lene Ichinotsubo,

Attached please find HRRV's annual summary report for the fiscal year 2021 through 2022 per Part II - Special Conditions, Section G. No. 44 of Solid Waste Permit No. IN-0049-11. We have separated the report into four attachments:

- Attachment A <u>Inbound Receipts.</u> Type and tonnage or volumes of waste received, recycled, combusted, and disposed of from each area of the facility.
- Attachment B <u>Outbound Residue.</u> Tonnage or volumes of ash and residue generated and disposed from each area of the facility.
- Attachment C <u>Storage Locations.</u> Identification of disposition location for each waste stream from each area of the facility.
- Attachment D <u>Full Area Diversions</u>. Dates, total number of days, and reasons that each area of the facility was not accepting MSW or was not in operation.

If there are any further questions, please call me at 682-0201 or Ms. Katelyn Asato at 808-682-0264.

Very truly yours,

KTA:jt 220706tw Tony Waldo Facility Manager

Attachments

cc: Ahmad Sadri, City and County of Honolulu George Drew (Covanta), E-mail

EXHIBIT "I"

Attachment A Inbound Receipts

Attachment A - Inbound Receipts. Type and tonnage or volumes of waste received, recycled, combusted and disposed of from each area of the facility.

Material Type	Destination or Origination & Plant	Material Code	Tonnage Received (1)	Recycled (2)	Combusted	Disposed
Municipal Solid Waste		01, 02, 03, 04, 05, 06	732,956			
	RDF	MOR	445,531	Can Matala	417,716	See Attachment B
	Mass Burn	MOR	305,494	See metals	300,579	See Attachment B
	Waste Auxiliary Building		2,543	Kecovered	A LEAST LAND	See Attachment B
Special Waste			1,285	是此而在此来的时候, 他们	的行为自己的原则	
-	RDF	MOR	17	See Metals	17	See Attachment B
	Mass Burn	MOR	1,268	Recovered	1,268	See Attachment B
Unacceptable Waste (UAW) (3)	RDF & Mass Burn	13	22			See Attachment B
	RDF UAW to Mass Burn	15	_*		See note*	
Metals Recovered				Sent to a Permitted		
	RDF, Pre-Burn Ferrous	20, 23	9,796	Recycler (Island		
	RDF, BAMR Ferrous	22	1,832	Recycling,	19月2日日1月1日日	和自己的意思。这个方法
	RDF, BAMR Non-Ferrous	21	776	Refrigerant	のない。	
	Mass Burn, BAMR Ferrous	32, 33	10,109	Recycling, or	的建設建設的利息	
	Mass Burn, BAMR Non-Ferrous	31	1,637	Schnitzer Steel		
Sludge	Mass Burn	52, 55	16,869		16,869	See Attachment B
Tires (4)	Mass Burn	WPF	33,596	《 》。《月》:《《《》》	33,596	See Attachment B

(1) The tonnage is rounded up to a whole number.

(2) Recycled tonnage is tonnage extracted in the Waste Process Facility, and from the Bottom Ash Metals Recovery System

(3) The program PC Scale does not distinguish which facility the unacceptable material originated from.

(4) Tires tonnage is a total number of tires, not a tonnage of the tires.

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*Small quantities of WPF UAW were taken to Mass Burn. The tonnage combusted at Mass Burn is inclusive of the RDF UAW tonnage.

Attachment B Outbound Residue

Attachment B – Outbound Residue. Tonnage or volumes of ash and residue generated and disposed from each area of the facility.

Material Type	Material Code	Tonnage Generated & Disposed (WGSL)
RDF Residue	10	950.71
RDF Ash	12	90,292.98
MBN Ash	17	61,361.57
UAW to Landfill	13	22
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Attachment C Storage Locations

Attachment C – Storage Locations. Identification of disposition location for each waste stream from each area of the facility.

Map Code	Waste Stream	Waste Disposition	Disposal Method	
А	Municipal Solid Waste	Household trash, supplemental waste, and all other approved forms of waste.	Combustion or Processed into Refuse Derived Fuel (RDF).	
В	Refuse Derived Fuel	MSW that was processed through a series of shredders, trommels, magnets, to refine MSW into a lighter highly combustable fuel source.	Combustion, RDF Plant	
с	Combined Ash	Post-combustion residue, inert material.	Disposal at Waimanalo Gulch Sanitary Landfill	
D	Process Residue	Fall-out MSW from process equipment (trommel), normally comprised of glass, plastic, sand, dirt, and non-combustible MSW.	Disposal at Waimanalo Gulch Sanitary Landfill	
E	Tires	Passenger tires from C&C of Honolulu collection systems.	Combustion, Mass Burn	
F	Sludge	Wastewater treatment plant biosolids; 20-25% moisture, non-hazardous material.	Combustion, Mass Burn	
G	Solvent	Non-combustable liquid solvent for parts and painting equipment	Recycled - Unitek Solvent Services	
Н	Unacceptable Waste	White goods, bulky metals (metal bookshelves, metal furniture), compressed cylinders, etc.	Recycled - Transferred to either Schnitzer Steel Hawaii, or Island Recycling. Temporarily stored on tipping floors or just outside in large trailers until enough is generated to move offsite to recycler.	
I	Universal Waste	Lamps, Bulbs, batteries	Treated - EnviroServices	
J	Used Oil	Recyclable liquid product generated from fleet, heavy, and plant equipment maintenance.	Recycled - Cameron Chemical	
к	Ferrous/Non-Ferrous Metal	Pre-burn and post-burn recovered ferrous and non-ferrous metal.	Recycled - Transferred to either Schnitzer Steel Hawaii, or Island Recycling	
L	Sump Sludge	Mostly liquid material mixed with ash and road grime; non-hazardous.	Recycled - Mixed with ash discharger to cool the ash.	



Attachment C – Storage Locations. Identification of disposition location for each waste stream from each area of the facility.

Attachment D Full Area Diversions Attachment D – Full Diversions. Dates, total number of dates, and reasons that each area of the facility was not accepting MSW or was not in operation.

Dates	Number of Days	Reason for Diversion or Downtime
10/7/2021 - 10/11/2021	3.5	Boiler #3 offline for feed chute damage repair. Please refer to correspondence dated 10/12/2021.
11/8/2021 - 11/12/2021	4	Boiler #3 feed table door repairs. Sludge was diverted during this period. Please refer to correspondence dated 10/12/2021.
2/19/2022 - 3/8/2022	17	Boiler #3 annual maintenance outage. Please refer to correspondence dated 3/15/2022.
5/1/2022 - 5/5/2022	3	Boiler #3 tube rupture repair. Please refer to correspondence dated 5/13/2022.
5/10/2022 - 5/17/2022	7	RDF Boilers 1 and 2 common outage for turbine repairs. Please refer to correspondence dated 5/18/2022.
6/29/2022 - 7/7/2022*	8	Fire in the Waste Processing Facility (WPF). Please refer to correspondence dated 7/12/2022.

*The Annual Report covers July 1, 2021 - June 30, 2022. This instance of downtime is being included in this report for consistency due to the overlapping of periods.