

January 12, 2022

TO: Members of the Facility & Plan Review Subcommittee
Los Angeles County Solid Waste Management Committee/
Integrated Waste Management Task Force

FROM: Ramon Herman, Staff (RH)

**UPDATED STAFF REPORT
2021 SEMI WASTE CHARACTERIZATION STUDIES AND QUARTERLY MONITORING
REPORTS FOR VARIOUS LANDFILLS**

As requested by the Facility and Plan Review Subcommittee, below is the staff's report on the Waste Characterization and Quarterly Monitoring Reports submitted by the respective landfill facilities:

2021 Semi Annual Fall Waste Characterization for Calabasas Landfill dated November 29, 2021. The Waste Characterization Study was conducted over one operating week period, on the week of October 18, 2021. For this period of study, the landfill sampled approximately 6,761 tons out of the total incoming waste. Below is information on the top three materials from the collected sample:

- Organic materials composed of approximately **61%** of the total collected sample for this study period. Compared to previous study period of Spring 2021, the percentage of organics was reported at **55%** (out of 5,017).
- Other Waste including inert solids, household hazardous waste and tires and rubber products composed of **22%** of the total collected sample. Compared to Spring 2021, the percentage of these wastes was reported at **28%** (out of 5,017).
- Plastics composed of **10%** of the total collected sample. Compared to Spring 2021, the percentage of Plastics was reported at **10%** (out of 5,017).

2021 Semi Annual Fall Waste Characterization for Chiquita Canyon Landfill dated October 15, 2021. The Waste Characterization Study was conducted over one operating week period, from September 13 to September 18. For this period of study, the landfill sampled approximately 40,300 tons out of the total incoming waste. Below is information on the top three materials from the collected sample:

- Organic materials composed of approximately **71%** of the total collected sample for this study period. Compared to previous study period of Spring 2021, the percentage of organics was reported at **71%** (out of 38,700 tons).
- Other Waste including inert solids, household hazardous waste and tires and rubber products composed of **13%** of the total collected sample. Compared to Spring 2021, the percentage of these wastes was reported at **11%** (out of 38,700 tons).
- Metals composed of **5%** of the total collected sample. Compared to Spring 2021, the percentage of metals was reported at **9%** (out of 38,700 tons).

2021 Semi Annual Fall Waste Characterization for Sunshine Canyon Landfill dated October 27, 2021. The Waste Characterization Study was conducted during a six-day period, on the week of September 27. For this period of study, the Landfill sampled approximately 45,000 tons out of the total incoming waste. Below is information on the top three materials from the collected sample:

- Organic materials composed of **79%** of the total collected sample for this study period. Compared to previous study period of Spring 2021, the percentage of organics was reported at **75%** (*out of 47,800 tons*)
- Other Waste including inert solids, household hazardous waste and tires and rubber products composed of **10%** of the total collected sample. Compared to Spring 2021, the percentage of these wastes was reported at **10%** (*out of 47,800 tons*).
- Plastics composed of **4%** of the total collected sample. Compared to Spring 2021, the percentage of plastics was reported at **6%** (*out of 47,800 tons*).

2021 Semi Annual Fall Waste Characterization for Antelope Valley Recycling and Disposal Facility dated October 6, 2021. The Waste Characterization Study was conducted during a five-day period, on the week of September 20th. For this period of study, the Landfill sampled approximately 228 tons out of the total incoming waste. Below is information on the top three materials from the collected sample:

- Organic materials composed of **69%** of the total collected sample for this study period. Compared to previous study period of Spring 2021, the percentage of organics was reported at **65%** (*out of 198 tons*)
- Other Waste including inert solids, household hazardous waste and tires and rubber products composed of **2%** of the total collected sample. Compared to Spring 2021, the percentage of these wastes was reported at **3%** (*out of 198 tons*).
- Plastics composed of **28%** of the total collected sample. Compared to Spring 2021, the percentage of plastics was reported at **24%** (*out of 198 tons*).

2021 Semi Annual Fall Waste Characterization for Lancaster Landfill & Recycling Facility dated October 6, 2021. The Waste Characterization Study was conducted during a five-day period, on the week of September 20th. For this period of study, the Landfill sampled approximately 155 tons out of the total incoming waste. Below is information on the top three materials from the collected sample:

- Organic materials composed of **24%** of the total collected sample for this study period. Compared to previous study period of Spring 2021, the percentage of organics was reported at **37%** (*out of 139 tons*)
- Other Waste including inert solids, household hazardous waste and tires and rubber products composed of **22%** of the total collected sample. Compared to Spring 2021, the percentage of these wastes was reported at **5%** (*out of 139 tons*).
- Plastics composed of **50%** of the total collected sample. Compared to Spring 2021, the percentage of plastics was reported at **49%** (*out of 139 tons*).

3rd Quarter 2021 Monitoring Report for Chiquita Canyon Landfill dated October 15, 2021.

- Based on the report, the Chiquita Canyon Landfill disposed of **534,000 tons** in the third quarter of 2021. Compared to the second quarter of 2021, the disposal tonnage increased by **7%** (*498,000 to 534,000 tons*).
- The beneficial reuse material (including diversion and soil) total for the third quarter of 2021 was **156,000 tons**. Compared to the second quarter of 2021, the beneficial reuse tonnage increased by **19%** (*126,000 tons to 156,000*).

3rd Quarter 2021 Monitoring Report for Sunshine Canyon Landfill dated October 15, 2021.

- Based on the report, the Sunshine Canyon Landfill disposed of **723,600 tons** in the third quarter of 2021. Compared to the second quarter of 2021, the disposal tonnage increased by **7%** (*676,000 to 723,600 tons*).
- The beneficial reuse material (including diversion and soil) total for the third quarter of 2021 was **12,900 tons**. Compared to the second quarter of 2021, the beneficial reuse tonnage decreased by **68%** (*21,700 tons to 12,900*).

NOTE: By design, the Waste Characterization study only provide a "snap-shot" of the composition of the waste stream during the study period. As such, it may not accurately depict of the overall waste stream composition for the respective facility.

Calabasas Landfill Report based on SB 1383 Definition¹

Waste Type	Waste Materials	Fall 2021						
		Quantity (Load in Tons)						
		Residential	C&D	Commercial	Industrial	Other	Total	%
Organics	Corrugated Container	287.7	0.0	92.9	0.0	13.0	393.6	5.82
	Mixed Paper	282.7	0.0	27.8	0.0	1.1	311.6	4.61
	Newspaper	23.9	0.0	3.7	0.0	0.0	27.6	0.41
	High Grade Ledger	8.0	0.0	1.2	0.0	0.0	9.2	0.14
	Other Paper	475.6	0.0	51.4	0.0	8.4	535.4	7.92
	Leaves, Grass, Prunings	765.2	0.0	165.9	0.0	62.5	993.6	14.70
	Food Waste	495.4	0.0	115.5	0.0	0.0	610.9	9.04
	Wood Wastes	603.6	0.0	137.3	0.0	92.6	833.5	12.33
	Agricultural Crop Residues	0	0	0	0	0.0	0.0	0.00
	Manure	0.0	0.0	4.8	0.0	0.0	4.8	0.07
	Textile & Leather	316.6	0.0	102.4	0.0	8.7	427.7	6.33
	Sewage Sludge	0	0	0	0	0.0	0.0	0.00
	Industrial Sludge	0	0	0	0	0.0	0.0	0.00
								61.35
Plastics	High-Density Polyethylene (HDPE)	29.0	0.0	2.8	0.0	0.0	31.8	0.47
	Polyethylene Terephthalate (PET)	67.2	0.0	11.3	0.0	0.0	78.5	1.16
	Film Plastics	183.4	0.0	46.3	0.0	6.7	236.4	3.50
	Other Plastics	251.6	0.0	109.0	0.0	4.0	364.6	5.39
								10.52
Glass	Refillable Beverage Glass	14.3	0.0	0.0	0.0	0.0	14.3	0.21
	California Redemption Value Glass	11.4	0.0	3.8	0.0	0.0	15.2	0.22
	Other Recyclable Glass	107.0	0.0	4.3	0.0	0.0	111.3	1.65
	Other Non-Recyclable Glass	16.8	0.0	0.7	0.0	1.9	19.5	0.29
								2.37
Metals	Aluminum Cans	12.9	0.0	1.2	0.0	0.0	14.1	0.21
	Bi-Metal Containers & Tin Cans	104.6	0.0	4.1	0.0	0.0	108.8	1.61
	Ferrous Metals	52.6	0.0	34.2	0.0	20.3	107.1	1.58
	Non-Ferrous Metal Include Aluminum	25.0	0.0	2.5	0.0	0.8	28.3	0.42
	White Goods	0.0	0.0	0.1	0.0	0.0	0.1	0.00
								3.82
Other Waste	Inert Solids (concrete, brick, sand)	371.4	0.0	111.0	0.0	200.7	683.1	10.10
	Household Hazardous Waste (pounds)	98.8	0.0	92.1	0.0	0.2	191.1	2.83
	Tires & Rubber Products	2.7	0.0	0.0	0.0	0.0	2.7	0.04
	Mixed Residue	370.4	0.0	138.6	0.0	97.1	606.1	8.96
								21.93
Special Waste	Ash	0	0	0	0	0	0	0.00
	Asbestos	0	0	0	0	0	0	0.00
	Auto Shredder Waste	0	0	0	0	0	0	0.00
	Auto Bodies	0	0	0	0	0	0	0.00
	Other Specific Waste	0	0	0	0	0	0	0.00
								0.00
	Total	4977.8	0.0	1264.9	0.0	518.0	6760.9	100

Percent Difference of The Total Waste Stream			
Chiquita Canyon Landfill	Spring '21		Fall '21
Organics	55.1		61.35
Plastics	10.1		10.52
Glass	3.3		2.37
Metals	3.5		3.82
Other Waste	28.1		21.93
Special Waste	0		0.00

Chiquita Waste Characterization Report based on SB 1383 Definition¹

Waste Type	Waste Materials	Fall 2021					
		Quantity (Load in Tons)					
		Residential	Commercial	Industrial	Other	Total	%
Organics	Corrugated Container	141.8	809.4	642.7	0	1593.9	3.95
	Mixed Paper	666.1	156.9	0	0	823	2.04
	Newspaper	0	68.5	9.6	0	78.1	0.19
	High Grade Ledger	11.9	375.1	25.2	0	412.2	1.02
	Other Paper	1204	2244.6	160.1	0	3608.7	8.95
	Leaves, Grass, Prunings	0	983.6	2645.2	0	3628.8	9.00
	Food Waste	1950.1	9354.8	214.6	0	11519.5	28.56
	Wood Wastes	216	1273.1	1019.8	124.9	2633.8	6.53
	Agricultural Crop Residues	0	0	0	0	0	0.00
	Manure	0	0	0	0	0	0.00
	Textile & Leather	1807.4	2518.9	0	0	4326.3	10.73
	Sewage Sludge	0	0	0	0	0	0.00
	Industrial Sludge	0	0	0	0	0	0.00
							70.96
Plastics	High-Density Polyethylene (HDPE)	9	66	0	0	75	0.19
	Polyethylene Terephthalate (PET)	25.9	186	28	0	239.9	0.59
	Film Plastics	337.3	724.9	80.9	0	1143.1	2.83
	Other Plastics	306.4	877	74.5	0	1257.9	3.12
							6.73
Glass	Refillable Beverage Glass	0	0	13	0	13	0.03
	California Redemption Value Glass	210.1	1002.6	0	0	1212.7	3.01
	Other Recyclable Glass	145.7	72.9	0	0	218.6	0.54
	Other Non-Recyclable Glass	0	226.8	0	0	226.8	0.56
							4.14
Metals	Aluminum Cans	36.7	167.8	16.8	0	221.3	0.55
	Bi-Metal Containers & Tin Cans	12.6	184.9	0	0	197.5	0.49
	Ferrous Metals	24.7	286.4	0	0	311.1	0.77
	Non-Ferrous Metal Include Aluminum	40.2	888.5	216.5	22.2	1167.4	2.89
	White Goods	0	0	0	0	0	0.00
							4.70
Other Waste	Inert Solids (concrete, brick, sand)	62.4	2694.8	31.3	551.9	3340.4	8.28
	Household Hazardous Waste (pounds)	669.4	954	0	0	1623.4	4.02
	Tires & Rubber Products	56.6	408.9	0	0	465.5	1.15
							13.46
Special Waste	Ash	0	0	0	0	0	0.00
	Asbestos	0	0	0	0	0	0.00
	Auto Shredder Waste	0	0	0	0	0	0.00
	Auto Bodies	0	0	0	0	0	0.00
	Other Specific Waste	0	0	0	0	0	0.00
							0.00
	Total	7934.3	26526.4	5178.2	699	40337.9	100.00

Percent Difference of The Total Waste Stream		
Chiquita Canyon Landfill	Spring '21	Fall '21
Organics	70.86	70.96
Plastics	6.09	6.73
Glass	3.42	4.14
Metals	8.58	4.7
Other Waste	11.06	13.46
Special Waste	0.00	0

Sunshine Canyon Characterization Report based on SB 1383 Definition¹

Waste Type	Waste Materials	Fall 2021					
		Quantity (Load in Tons)					
		Residential	Commercial	Industrial	Other	Total	%
Organics	Corrugated Container	221.2	284.2	116.5	0.0	621.9	1.38
	Mixed Paper	244.2	16.4	0.0	0.0	260.7	0.58
	Newspaper	63.0	0.0	0.0	0.0	63.0	0.14
	High Grade Ledger	251.0	4.4	0.0	0.0	255.4	0.57
	Other Paper	1866.5	1023.5	252.9	0.0	3142.9	6.99
	Leaves, Grass, Prunings	1487.6	1939.4	4469.7	390.7	8287.3	18.42
	Food Waste	11101.8	2756.9	147.5	0.0	14006.3	31.14
	Wood Wastes	1146.6	1020.6	2294.2	54.7	4516.0	10.04
	Agricultural Crop Residues	0	0	0	0	0	0.00
	Manure	0.0	0.0	0.0	0.0	0	0.00
	Textile & Leather	2873.1	1459.4	104.1	0.0	4436.7	9.86
	Sewage Sludge	0	0	0	0	0	0.00
	Industrial Sludge	0	0	0	0	0	0.00
							79.12
Plastics	High-Density Polyethylene (HDPE)	22.6	7.6	11.5	0.0	41.7	0.09
	Polyethylene Terephthalate (PET)	118.6	17.7	1.4	0.0	137.7	0.31
	Film Plastics	352.1	272.6	135.7	0.0	760.4	1.69
	Other Plastics	603.6	192.6	50.4	0.0	846.6	1.88
							3.97
Glass	Refillable Beverage Glass	0.0	0.0	0.0	0.0	0	0.00
	California Redemption Value Glass	798.3	75.9	0.0	0.0	874.2	1.94
	Other Recyclable Glass	14.3	0.0	0.0	0.0	14.3	0.03
	Other Non-Recyclable Glass	211.6	148.7	0.0	0.0	360.3	0.80
							2.78
Metals	Aluminum Cans	132.2	41.0	0.0	0.0	173.3	0.39
	Bi-Metal Containers & Tin Cans	280.1	19.5	0.0	0.0	299.6	0.67
	Ferrous Metals	221.8	0.0	0.0	0.0	221.8	0.49
	Non-Ferrous Metal Include Aluminum	437.5	543.3	12.6	0.0	993.4	2.21
	White Goods	0.0	0.0	0.0	0.0	0.0	0.00
							3.75
Other Waste	Inert Solids (concrete, brick, sand)	1870.6	1608.5	0.0	0.0	3479.1	7.73
	Household Hazardous Waste (pounds)	218.8	0.0	404.1	0.0	622.9	1.38
	Tires & Rubber Products	509.4	20.5	37.8	0.0	567.7	1.26
							10.38
Special Waste	Ash	0	0	0	0	0	0.00
	Asbestos	0	0	0	0	0	0.00
	Auto Shredder Waste	0	0	0	0	0	0.00
	Auto Bodies	0	0	0	0	0	0.00
	Other Specific Waste	0	0	0	0	0	0.00
							0.00
	Total	25046.5	11452.7	8038.4	445.4	44983.2	100.00

Percent Difference of The Total Waste Stream		
Chiquita Canyon Landfill	Spring '21	Fall '21
Organics	70.86	79.12
Plastics	6.09	3.97
Glass	3.42	2.78
Metals	8.58	3.75
Other Waste	11.06	10.38
Special Waste	0.00	0.00

Antelope Valley Recycling and Disposal Facility Report based on SB 1383 Definition¹

Waste Type	Waste Materials	Fall 2021					
		Quantity (Load in Tons)					
		Residential	Commercial	Industrial	Other	Total	%
Organics	Corrugated Container	2.3	12.8	1.4	0.0	16.4	7.21
	Mixed Paper	5.1	5.2	1.2	0.0	11.5	5.04
	Newspaper	0.4	0.4	0.1	0.0	1.0	0.42
	High Grade Ledger	0.0	0.0	0.2	0.0	0.2	0.08
	Other Paper	2.2	5.5	1.8	0.0	9.5	4.16
	Leaves, Grass, Prunings	2.4	13.9	4.5	0.0	20.8572	9.15
	Food Waste	2.4	1.4	0.2	0.0	3.957	1.74
	Wood Wastes	8.2	76.6	0.7	0.0	85.5	37.49
	Agricultural Crop Residues	0.1916	0	0	0	0.1916	0.19
	Manure	0.0	2.6	0.0	0.0	2.622	2.62
	Textile & Leather	0.7	0.2	0.0	0.0	0.9	0.93
	Sewage Sludge	0	0	0	0	0	0.00
	Industrial Sludge	0	0	0	0	0	0.00
							69.01
Plastics	High-Density Polyethylene (HDPE)	0.5	6.5	0.4	0.0	7.4	3.25
	Polyethylene Terephthalate (PET)	17.1	18.6	4.6	0.0	40.4	17.70
	Film Plastics	6.7	6.2	1.0	0.0	13.9	6.09
	Other Plastics	1.1	3.4	1.2	0.0	5.7	2.49
							27.54
Glass	Refillable Beverage Glass	0.0	0.0	0.0	0.0	0	0.00
	California Redemption Value Glass	0.3	0.0	0.1	0.0	0.4	0.16
	Other Recyclable Glass	0.4	0.0	0.1	0.0	0.4	0.20
	Other Non-Recyclable Glass	0.2	0.0	0.0	0.0	0.2	0.09
							0.45
Metals	Aluminum Cans	0.1	0.0	0.0	0.0	0.1	0.04
	Bi-Metal Containers & Tin Cans	0.0	0.0	0.0	0.0	0.0	0.00
	Ferrous Metals	0.4	2.0	0.0	0.0	2.5	1.10
	Non-Ferrous Metal Include Aluminum	0.2	0.0	0.0	0.0	0.2	0.07
	White Goods	0.0	0.0	0.0	0.0	0.0	0.00
							1.21
Other Waste	Inert Solids (concrete, brick, sand)	1.2	3.1	0.0	0.0	4.3	1.88
	Household Hazardous Waste (pounds)	0.0	0.0	0.0	0.0	0.0	0.00
	Tires & Rubber Products	0.0	0.0	0.0	0.0	0.0	0.00
							1.88
Special Waste	Ash	0	0	0	0	0	0.00
	Asbestos	0	0	0	0	0	0.00
	Auto Shredder Waste	0	0	0	0	0	0.00
	Auto Bodies	0	0	0	0	0	0.00
	Other Specific Waste	0	0	0	0	0	0.00
							0.00
	Total	52.1	158.5	17.4	0.0	228.0	100

Percent Difference of The Total Waste Stream		
Chiquita Canyon Landfill	Spring '21	Fall '21
Organics	64.89	69.01
Plastics	24.16	27.54
Glass	2.76	0.45
Metals	5.32	1.21
Other Waste	2.86	1.88
Special Waste	0	0.00

Lancaster Landfill & Recycling Center Report based on SB 1383 Definition¹

Waste Type	Waste Materials	Fall 2021					
		Quantity (Load in Tons)					
		Residential	Commercial	Industrial	Other	Total	%
Organics	Corrugated Container	0.6	2.7	0.2	0.0	3.6	2.29
	Mixed Paper	0.0	0.0	0.3	0.0	0.3	0.18
	Newspaper	0.0	0.0	0.0	0.0	0.0	0.00
	High Grade Ledger	0.0	0.0	0.0	0.0	0.0	0.00
	Other Paper	2.1	2.2	1.1	0.0	5.4	3.46
	Leaves, Grass, Prunings	0.7	0.9	0.4	0.0	1.9158	1.23
	Food Waste	8.1	3.6	0.0	0.0	11.7055	7.54
	Wood Wastes	0.7	0.7	7.5	0.0	9.0	5.78
	Agricultural Crop Residues	0	0	0	0.0	0	0.00
	Manure	0.0	0.0	0.0	0.0	0	0.00
	Textile & Leather	1.4	2.0	1.7	0.0	5.1	3.30
	Sewage Sludge	0	0	0	0.0	0	0.00
	Industrial Sludge	0	0	0	0.0	0	0.00
							23.79
Plastics	High-Density Polyethylene (HDPE)	0.6	0.1	0.0	0.0	0.7	0.45
	Polyethylene Terephthalate (PET)	0.6	0.2	0.0	0.0	0.8	0.52
	Film Plastics	0.0	0.1	0.0	0.0	0.1	0.07
	Other Plastics	44.6	29.4	3.4	0.0	76.0	48.94
							49.98
Glass	Refillable Beverage Glass	0.0	0.0	0.0	0.0	0	0.00
	California Redemption Value Glass	0.0	0.1	0.0	0.0	0.1	0.09
	Other Recyclable Glass	0.2	0.0	0.0	0.0	0.2	0.15
	Other Non-Recyclable Glass	0.0	0.0	0.0	0.0	0.0	0.15
							0.39
Metals	Aluminum Cans	0.1	0.1	0.0	0.0	0.2	0.13
	Bi-Metal Containers & Tin Cans	0.2	0.3	1.9	0.0	2.4	1.55
	Ferrous Metals	0.0	0.0	0.0	0.0	0.0	0.00
	Non-Ferrous Metal Include Aluminum	0.3	0.0	0.0	0.0	0.4	0.24
	White Goods	0.2	3.0	0.0	0.0	3.2	2.06
							3.97
Other Waste	Inert Solids (concrete, brick, sand)	0.0	0.0	33.9	0.0	33.9	21.84
	Household Hazardous Waste (pounds)	0.0	0.0	0.1	0.0	0.1	0.08
	Tires & Rubber Products	0.1	0.0	0.1	0.0	0.2	0.10
							22.02
Special Waste	Ash	0	0	0	0	0	0.00
	Asbestos	0	0	0	0	0	0.00
	Auto Shredder Waste	0	0	0	0	0	0.00
	Auto Bodies	0.0099	0	0	0	0.0099	0.00
	Other Specific Waste	0	0	0	0	0	0.00
							0.00
Total		60.5	45.5	50.8	0.0	155.3	100

Percent Difference of The Total Waste Stream		
Chiquita Canyon Landfill	Spring '21	Fall '21
Organics	36.76	23.79
Plastics	48.91	49.98
Glass	2.91	0.39
Metals	6.13	3.97
Other Waste	5.29	22.02
Special Waste	0	0.00

Supplemental Information

Staff categorized the different landfills waste characterization from the operator's report based on CalRecycle's definition of organic waste. ¹According to Calrecycle (SB-1383), the definition of organic waste is any solid wastes containing material originated from living organisms and their metabolic waste products, including but not limited to food, green material, landscape and pruning waste, organic textiles and carpets, lumber, wood, paper products, printing and writing paper, manure, biosolids, digestate, and sludges. (Source: Proposed Short-lived Climate Pollutants (SLCP): Organic Waste Reductions Regulations)