



Local Law 40 Annual Report Fiscal Year 2018

Local Law 40 (LL40) requires all contractors managing the City’s solid waste disposal program or recycling program for the Department of Sanitation to use ultra-low sulfur diesel fuel (ULSD). It also requires these vehicles to be equipped with emissions reduction technology to reduce the pollutants their vehicles emit into the environment.

As of Fiscal Year 2018, all contractor vehicles were in compliance with this legislation.

Below are answers to the questions posed in the legislation describing the City’s status in achieving these milestones. The data for these questions was provided from the Department of Sanitation and their contractors.

- 1. What is the total number of diesel fuel-powered motor vehicles and diesel powered off road vehicles, respectively, used in the performance of solid waste contracts or recyclable materials contracts? (Ad. Code 24-163.5(j)(1)(i))*

There were 75 vehicles used for these contracts and all of them are off road/on road vehicles. Unavailability waivers expired and could not be renewed because of Local Law 74 of 2013, which prohibits the renewal of a waiver after January 1, 2014 therefore; contractors have to replace their older equipment with newer technology which complies with current EPA standards.

No.	Type of Vehicle	Make	Model	Year	EPA Certified Engine / BART
1	Wheel Loader	Volvo	L180	2012	Tier 4 Interim
2	Wheel Loader	Volvo	L 60	2012	Tier 4 Interim
3	Excavator	Volvo	300	2018	Tier 4 Final
4	Excavator	Volvo	EC300EL	2016	Tier 4 Final
5	Compactor	Caterpillar	826K	2014	Tier 4 Interim
6	Wheel Loader	Caterpillar	L180H	2016	Tier 4 Final
7	Wheel Loader	Volvo	L 180 G	2013	Tier 4 Interim
8	Wheel Loader	Volvo	L 180 G	2014	Tier 4 Interim
9	Skid steer	Volvo	M135C	2017	Tier 4 Final
10	Railcar Switcher	Shuttle Wagon	NVX8040	2015	Tier 4 Final
11	Railcar Switcher	Shuttle Wagon	SWX605C	2007	HUSS/ADPF
12	Top Pick	Taylor	XRS-9972	2016	Tier 4 Final
13	Top Pick	Kalmar	DCF410CSG	2006	Claire Phoenix
14	Wheel Loader	Caterpillar	903C	2015	Tier 4 Interim
15	Switch Yard Jockey	Ottawa	Ottawa 4X2	2007	Claire Phoenix
16	Switch Yard Jockey	Ottawa	Ottawa 4X2	2007	Claire Phoenix
17	Switch Yard Jockey	Ottawa	Ottawa 4X2	2007	Claire Phoenix
18	Mech. Broom	Elgin	Elgin/Pelican	2006	Claire Phoenix
19	Wheel Loader	Caterpillar	L180H	2016	Tier 4 Final

No.	Type of Vehicle	Make	Model	Year	EPA Certified Engine / BART
20	Wheel Loader	Volvo	L180 H	2016	Tier 4 Final
21	Forklift	Hyster	H80FT	2007	Huss/ADPF
22	Wheel Loader	Volvo	L70	2009	HUSS/ADPF
23	Excavator	Volvo	EC300	2014	Tier 4 Final
24	Container Handler	Taylor	SK1	2008	HUSS/ADPF
25	Container Handler	Taylor	975	2012	Tier 4 Interim
26	Switcher	Shuttle Wagon	SW525BE	2010	HUSS/ADPF
27	Switcher	Shuttle Wagon	SW465	2002	HUSS/ADPF
28	Wheel Loader	Volvo	L 120	2015	Tier 4 Interim
29	Wheel Loader	Volvo	L 120	2018	Tier 4 Interim
30	Skid Steer	Caterpillar	272D2	2017	Tier 4 Final
31	Skid Steer	Caterpillar	272D2	2018	Tier 4 Final
32	Wheel Loader	Volvo	L70 H	2016	Tier 4 Final
33	Wheel Loader	Volvo	L180 H	2016	Tier 4 Final
34	Wheel Loader	Volvo	L180 H	2015	Tier 4 Final
35	Wheel Loader	Volvo	L70 H	2015	Tier 4 Final
36	Excavator	Volvo	EC 300	2015	Tier 4 Final
37	Reach Stacker	Taylor	TS9972	2015	Tier 4 Interim
38	Reach Stacker	Taylor	TS9972	2015	Tier 4 Interim
39	Rail Switcher	Shuttle Wagon	NVX6030	2015	Tier 4 Interim
40	Switcher	Rail King	SS4600	2000	HUSS/ADPF
41	Excavator	Volvo	EC300	2018	Tier 4 Final
42	Front End Loader	Caterpillar	966G	2002	JM/CCRT
43	Front End Loader	Caterpillar	966H	2008	JM/CCRT
44	Skid Steer	Caterpillar	262D	2017	Tier 4 Final
45	Front End Loader	Caterpillar	966G	1999	DCL/DPF
46	Front End Loader	Caterpillar	966H	2010	DCL/DPF
47	Front End Loader	Caterpillar	966H	2010	DCL/DPF
48	Skid Steer	Caterpillar	262D	2017	Tier 4 Final
49	Excavator	Caterpillar	336EL	2013	Tier 4 Interim
50	Loader	Caterpillar	938K	2014	Tier 4 Interim
51	Excavator	Caterpillar	336EL	2013	Tier 4 Interim
52	Loader	Caterpillar	980M	2017	Tier 4 Final
53	Excavator	Caterpillar	336FL	2016	Tier 4 Interim
54	Waste Handler	Komatsu	WA470-7	2014	Tier 4 Interim
55	Waste Handler	Komatsu	WA470-8	2017	Tier 4 Final
56	Front E. Loader	Komatsu	WA-500	1996	DCL MINE-X Sootfilter
57	Front E. Loader	Komatsu	WA-500	1997	DCL MINE-X Sootfilter
58	Excavator	Komatsu	PC 200	1998	DCL MINE-X Sootfilter
59	Front Loader	Komatsu	WA-500-8	2017	Tier 4 Final
60	Excavator	Sennebogen	818-R-HD	2018	Tier 4 Final
61	Hydraulic Excavator	Caterpillar	320E	2013	Tier 4 Interim

No.	Type of Vehicle	Make	Model	Year	EPA Certified Engine / BART
62	Loader	Volvo	L150G	2013	Tier 4 Interim
63	Material Handler	Fuchs	MHL370	2016	Tier 4 Final
64	Material Handler	Fuchs	MHL370	2016	Tier 4 Final
65	Loader	Volvo	L150H	2016	Tier 4 Final
66	Loader	Volvo	L150H	2016	Tier 4 Final
67	Material Handler	Fuchs	MHL370	2016	Tier 4 Final
68	Loader	Volvo	L120G	2014	Tier 4 Interim
69	Loader	Volvo	L120G	2012	Tier 4 Interim
70	Material Handler	Sennebogen	840M'E'	2013	Tier 4 Interim
71	Material Handler	Fuchs	MHL360	2015	Tier 4 Final
72	Loader	Caterpillar	938M	2017	Tier 4 Final
73	Loader	Komatsu	WA380-7	2012	Tier 4 Interim
74	Front End Loader	Komatsu	WA500-8	2017	Tier 4 Final
75	Skid Steer	Bobcat	S550	2015	Tier 4 Final

2. *What is the number of such vehicles that were powered by ultra-low sulfur diesel fuel (ULSDF)? (Ad. Code 24-163.5(j)(1)(ii))*

All Seventy-Five vehicles used for these contracts were powered by ULSDF.

3. *What is the number of such vehicles that used the best available retrofit technology (BART), including a breakdown of such vehicles by model, engine year, and technology? (Ad. Code 24-163.5(j)(1)(iii))*

The above chart shows that out of the Seventy-Five vehicles, Twenty of these vehicles used Classification Level IV Diesel Particulate Filters (BART). Twenty-Three vehicles are equipped with Tier IV Interim EPA Certified Engines. Thirty-Two vehicles are equipped with Certified Tier IV Final Engines. Certified Tier IV Final Engines are the most effective way to decrease pollutants as it uses PM reduction technology along with NOx reduction technology as well to reduce Nitrogen Oxide.

4. *What is the number of such vehicles that used other authorized technology? (Ad. Code 24-163.5(j)(1)(iv))*

No technology, other than those presented above, were used.

5. *What is the number of vehicles equipped with an engine certified to the applicable 2007 EPA standard for particulate matter as set forth in section 86.007-11 of title 40 of the Code of Federal Regulations (CFR)? (Ad. Code 24-163.5(j)(1)(v))*

There are Fifty-Five vehicles certified to comply with section 86.007-11 of Title 40 of the CFR, as they are model engine year 2007 or later.

6. *What were the locations where such vehicles were used? (Ad. Code 24-163.5(j)(1)(vi))*

The locations were as follows:

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| 1) Waste Management of NY LLC
98 Lincoln Avenue
Bronx, NY 10474 | 10) Action Environmental
941 Stanley Avenue
Brooklyn, NY 11208 |
| 2) Allied Waste Systems/ Staten Island Tfr.
600 West Service Road
Staten Island, NY 10314 | 11) Tully Environmental Inc.
127-20 34 th Avenue
Flushing, NY 11368 |
| 3) Waste Management of NY LLC
215 Varick Street
Brooklyn, NY 11237 | 12) American Recycling Mgmt.
172-33 Douglas Avenue
Jamaica, NY 11433 |
| 4) Covanta Recovery / North Shore MTS
(DSNY) 123-15 31 Avenue
Queens, NY 11358 | 13) Regal Recycling
172-02 Douglas Avenue
Jamaica, NY 11433 |
| 5) Waste Management/Hamilton Ave MTS
500 Hamilton Avenue
Brooklyn, NY 11232 | 14) Sims Municipal Recycling of NY
472 2 nd Avenue
Brooklyn, NY 11232 |
| 6) Waste Management of NY LLC
400 Bay 41 st Street
Brooklyn, NY 11214 | 15) Sims Municipal Recycling of NY
30-27 Green point Avenue
Long Island City, NY 11101 |
| 7) Waste Management of NY LLC
38-50 Review Avenue
Brooklyn, NY 11222 | 16) Sims Municipal Recycling of NY
850 Edgewater Road
Bronx, NY 10474 |
| 8) IESI NY Corporation
577 Court Street
Brooklyn, NY 11231 | 17) Visy-Pratt Industries
4435 Victory Blvd
Staten Island, NY 10314 |
| 9) IESI NY Corporation
110 50 th Street
Brooklyn, NY 11232 | 18) We Care-Metropolitan
287 Halleck Street
Bronx, NY 10474 |

7. *What waivers were issued for ULSDF (Ad Code 24-163.5(j)(1)(vii))*

There were no waivers issued.

8. *What waivers were issued for the use of other authorized technology in lieu of the best available technology (Ad. Code 24-163.5(j)(1)(viii))*

There were no waivers issued because of Local Law no.74 of 2013 which states that, *the Commissioner shall not renew any waiver issued pursuant to this subdivision after January 1, 2014.*

Local Law 73 of 2013 states, as of January 1, 2017, all diesel fuel-powered motor vehicles used in the performance of such contract shall utilize the best available retrofit technology that meets the level 4 emission control strategy or be equipped with an engine certified to the applicable 2007 United States Environmental Protection Agency standard. Therefore, contractors had to replace their older vehicles with newer ones that comply with current EPA standards.