

LIMITS COMPARISON TABLES

The Boeing Company
Santa Susana Field Laboratory
(NPDES Permit No. CA0001309)

Limits Comparison Table 1
Stormwater - Discharge Points 001, 002, 011, and 018 (Note a and b)

Constituent	Units	Current Daily Maximum (R4-2015-0033)	Proposed Daily Maximum (R4-2023-XXXX) (Note c)	Reason for Change (Basis for Limit)
Biochemical Oxygen Demand (BOD) (5-day @ 20°C)	Milligrams per liter (mg/L)	30	30	--
Oil and Grease	mg/L	15	15	--
pH	standard units	6.5 to 8.5	6.5 to 8.5	--
Total Suspended Solids (TSS)	mg/L	45	Remove limit	Non-stormwater discharge prohibited
Aluminum	mg/L		1.0	RPA, new
Barium, Total Recoverable (TR)	mg/L	1.0	1.0	--
Chloride	mg/L	150	150	--
Chlorine, TR	mg/L	0.1	0.1	--
Chronic Toxicity	Pass or Fail, % Effect (TST)	Pass or % Effect < 50	Pass or % Effect < 50	--
Fluoride	mg/L	1.6	1.6	--
Detergents (as MBAS)	mg/L	0.5	0.5	--
Ammonia – N	mg/L	10.1	10.1	--
Iron	mg/L	0.3	Remove limit	Basin Plan
Manganese	µg/L	50	Remove limit- 50	No change
Nitrate – N	mg/L	8	8	--
Nitrite – N	mg/L	1	1	--
Nitrate + Nitrite – N	mg/L	8	8	--
Perchlorate	µg/L	6.0	6.0	--
Settleable Solids	mL/L	0.3	Remove limit	Non-stormwater discharge prohibited
Sulfate	mg/L	300	300	--
Temperature	°F	86	80	Basin Plan
Total Dissolved Solids	mg/L	950	950	--
Radioactivity – Gross Alpha	Picocuries per liter (pCi/L)	15	15	--
Radioactivity – Gross Beta	pCi/L	50	4 millirem/year	Title 22/MCLs

Limits Comparison Table 1
Stormwater - Discharge Points 001, 002, 011, and 018 (Note a and b)

Constituent	Units	Current Daily Maximum (R4-2015-0033)	Proposed Daily Maximum (R4-2023-XXXX) (Note c)	Reason for Change (Basis for Limit)
Combined Radium-226 & Radium-228	pCi/L	5.0	5.0	--
Tritium	pCi/L	20,000	20,000	--
Strontium-90	pCi/L	8.0	8.0	--
Uranium	pCi/L	20	20	--
Antimony, TR	micrograms per liter (µg/L)	6.0	6.0	--
Arsenic, TR	µg/L	10.0	10.0	--
Beryllium, TR	µg/L	4.0	4.0	--
Cadmium, TR	µg/L	4/3.1	3.1	Non-stormwater discharge prohibited/TMDL
Chromium (VI)	µg/L	16	16	--
Copper, TR	µg/L	14	67.5	TMDL
Lead, TR	µg/L	5.2	5.2	No change
Mercury, TR	µg/L	0.1	0.1	--
Nickel, TR	µg/L	94	Remove limit 94	No change
Selenium, TR	µg/L	8.2/5	8.2/Remove limit	No change per RPA/Non-stormwater discharge prohibited
Silver, TR	µg/L	4.1	4.1	--
Thallium, TR	µg/L	2.0	2.0	--
Zinc, TR	µg/L	119	159	TMDL
Cyanide	µg/L	8.5	8.5	--
TCDD Equivalents	µg/L	2.8E-08	2.8E-08	--
1,2-Dichloroethane	µg/L	0.5	0.5	--
1,1-Dichloroethylene	µg/L	6.0	6.0	--
Trichloroethylene	µg/L	5	5	--
Pentachlorophenol	µg/L	16.5	16.5	RPA
2,4,6-Trichlorophenol	µg/L	13	13	--
Benzidine	µg/L	--	0.00054	RPA
Bis(2-ethylhexyl)Phthalate	µg/L	4	4	--
3,3'-Dichlorobenzidine	µg/L	--	0.077	RPA
2,4-Dinitrotoluene	µg/L	18	18	--
Indeno(1,2,3-cd) pyrene	µg/L	--	0.1	RPA
N-Nitrosodimethylamine	µg/L	16	16	--
alpha-BHC	µg/L	0.03	0.03	--
4,4-DDE	µg/L	--	0.00059	RPA
Heptachlor	µg/L	--	0.00042	RPA

Footnotes for Table 1

RPA – Reasonable Potential Analysis; Title 22/MCLs – Title 22 of the California Code of Regulations/maximum contaminant levels TMDL – Total Maximum Daily Load.

- a. Discharge Points 001 and 002 were designated as a “benchmark” in previous Orders as a performance-based value that was used to evaluate the performance of best management practices (BMPs) with regard to the removal of pollutants present in the discharge. In this Order, those benchmarks become established discharge points associated with water quality-based effluent limitations.
- b. The discharge flows of 117.83 million gallons per day (MGD) for Outfalls 001, 002, 011, and 018 are the same for the current and proposed permits.
- c. Proposed limits are same as those proposed in R4-2022-XXX except as noted in red text.

Limits Comparison Table 2
Stormwater - Discharge Points 003, 004, 005, 006, 007, 009, and 010 (Note a)

Constituent	Units	Current Daily Maximum (R4-2015-0033)	Proposed Daily Maximum (R4-2023-XXXX) (Note b)	Reason for Change (Basis for Limit)
Oil and grease	mg/L	15	15	--
pH	standard units	6.5 to 8.5	6.5 to 8.5	--
Aluminum	mg/L	--	1.0	RPA
Boron	mg/L	1.0	1.0	--
Chloride	mg/L	150	150	--
Chronic Toxicity	Pass or Fail, % Effect	Pass or % Effect < 50	Pass or % Effect < 50	--
Fluoride	mg/L	1.6	1.6	--
Nitrate + Nitrite - N	mg/L	10	10	--
Perchlorate	µg/L	6.0	6.0	--
Sulfate	mg/L	250	250	--
Temperature	°F	86	80	Basin Plan
Total Dissolved Solids	mg/L	850	850	--
Radioactivity – Gross Alpha	pCi/L	15	15	--
Radioactivity – Gross Beta	pCi/L	50	4 millirem/yr	Title 22/MCLs
Combined Radium-226 & Radium-228	pCi/L	5.0	5.0	--
Tritium	pCi/L	20,000	20,000	--
Strontium-90	pCi/L	8.0	8.0	--
Uranium	pCi/L	20	20	--
Antimony, TR	µg/L	6.0	6.0	--
Cadmium, TR	µg/L	4.0	4.0	--
Copper, TR	µg/L	13	31	TMDL
Lead, TR	µg/L	5.2	5.2	--
Mercury, TR	µg/L	0.13	0.0510.024	MP
Nickel, TR	µg/L	86	100	TMDL/Basin Plan
Selenium	µg/L	--	8.21--	No change
Thallium, TR	µg/L	2	2	--

Limits Comparison Table 2
Stormwater - Discharge Points 003, 004, 005, 006, 007, 009, and 010 (Note a)

Constituent	Units	Current Daily Maximum (R4-2015-0033)	Proposed Daily Maximum (R4-2023-XXXX) (Note b)	Reason for Change (Basis for Limit)
Zinc, TR	µg/L	120	120	--
Cyanide	µg/L	9.5	9.5	--
TCDD Equivalents	µg/L	2.8E-08	2.8E-08	--
Pentachlorophenol	µg/L	--	1.0	RPA
Bis(2-ethylhexyl)Phthalate	µg/L	--	4.0	RPA

Footnotes for Table 2

Basin Plan – Water Quality Control Plan: Los Angeles Region Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties; MP – Statewide Mercury Provisions; RPA – Reasonable Potential Analysis; TMDL – Total Maximum Daily Load.

- a. The discharge flows for Outfalls 003, 004, 005, 006, 007, 009, and 010 of 64.33 MGD are the same for the current and proposed permits.
- b. Proposed limits are same as those proposed in R4-2022-XXX except as noted in red text.

Limits Comparison Table 3
Stormwater - Discharge Point 008 (Note a)

Constituent	Units	Current Daily Maximum (R4-2015-0033)	Proposed Daily Maximum (R4-2023-XXXX) (Note b)	Reason for Change (Basis for Limit)
Oil and Grease	mg/L	15	15	--
pH	standard units	6.5 to 8.5	6.5 to 8.5	--
Aluminum	mg/L	--	1.0	RPA
Boron	mg/L	1.0	1.0	--
Chloride	mg/L	150	150	--
Chronic Toxicity	Pass or Fail, % Effect (TST)	Pass or % Effect < 50	Pass or % Effect < 50	--
Fluoride	mg/L	1.6	1.6	--
Ammonia – N	mg/L	10.1	10.1	--
Nitrate – N	mg/L	8	8	--
Nitrite – N	mg/L	1	1	--
Nitrate + Nitrite - N	mg/L	8	8	--
Perchlorate	µg/L	6.0	6.0	--
Sulfate	mg/L	300	300	--
Temperature	°F	86	80	Basin Plan
Total Dissolved Solids	mg/L	950	950	--
Radioactivity – Gross Alpha	pCi/L	15	15	--
Radioactivity – Gross Beta	pCi/L	50	4 millirem/yr	Title 22/MCLs
Combined Radium-226 & Radium-228	pCi/L	5.0	5.0	--

Limits Comparison Table 3
Stormwater - Discharge Point 008 (Note a)

Constituent	Units	Current Daily Maximum (R4-2015-0033)	Proposed Daily Maximum (R4-2023-XXXX) (Note b)	Reason for Change (Basis for Limit)
Tritium	pCi/L	20,000	20,000	--
Strontium-90	pCi/L	8.0	8.0	--
Uranium	pCi/L	20	20	--
Antimony, TR	µg/L	6.0	Remove limit	RPA
Arsenic, TR	µg/L	--	10.0	RPA
Cadmium, TR	µg/L	4.0/3.1	3.1	Non-stormwater discharge prohibited/TMDL
Copper, TR	µg/L	14	67.5	TMDL
Lead, TR	µg/L	5.2	5.2	--
Mercury, TR	µg/L	0.13	0.13 0.024	MP
Nickel, TR	µg/L	86	Remove limit	RPA
Selenium, TR	µg/L	5	Remove limit	Non-stormwater discharge prohibited/TMDL RPA
Thallium, TR	µg/L	2.0	Remove limit	RPA
Zinc, TR	µg/L	120	159	TMDL
Cyanide	µg/L	9.5	9.5	--
TCDD Equivalents	µg/L	2.8E-08	2.8 E-08 Remove limit	RPA
Benzidine	µg/L	--	0.00054	RPA
3,3'-Dichlorobenzidine	µg/L	--	0.077	RPA
4,4-DDE	µg/L	--	0.00059	RPA

Footnotes for Table 3

Basin Plan – Water Quality Control Plan: Los Angeles Region Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties; MP – Statewide Mercury Provisions; RPA – Reasonable Potential Analysis; TMDL – Total Maximum Daily Load.

- a. The discharge maximum flow for Outfall 008, which is 7.21 MGD is the same for the current and proposed permits.
- b. Proposed limits are same as those proposed in R4-2022-XXX except as noted in red text.