

**STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
LOS ANGELES REGION**

TIME SCHEDULE ORDER NO. R4-2006-0055

REQUIRING LOS ANGELES DEPARTMENT OF WATER AND POWER
(HAYNES GENERATING STATION TANK FARMS: A,B,C,&D; E; F&G; AND H&J)
TO COMPLY WITH REQUIREMENTS PRESCRIBED IN
ORDER NO. R4-2006-0054
(NPDES PERMIT NO. CA0057649)

The California Regional Water Quality Control Board, Los Angeles Region, (hereinafter Regional Water Board) finds:

1. The Los Angeles Department of Water and Power (hereinafter LADWP or Discharger) is the owner and operator of the Haynes Generating Station Tank Farms: A,B,C,&D; E; F&G; and H&J (Tank Farms). The four Tank Farms are located at 6801 East Second Street, Long Beach, California. All four Tank Farms consist of aboveground tanks used for fuel storage.
2. The four Tank Farms discharge wastewater under waste discharge requirements (WDRs) contained in Order No. R4-2006-0054 adopted by the Regional Board on June 8, 2006. Order No. R4-2006-0054 serves as a National Pollutant Discharge Elimination System (NPDES) permit (NPDES No. CA0057649).
3. The LADWP discharges storm water runoff into the Los Alamitos Channel. The discharge commingles with other storm water flows within the Los Alamitos Channel which then discharges to the Orange County Flood Control District Retention Basin below East Second Street. Storm water entering the Retention Basin percolates into the ground unless the storm water volume triggers a need to release the water to the San Gabriel River, a water of the United States, within the Estuary. The flow rates of the discharge and discharge points (Outfalls) for each Tank Farm are outlined in the Table below:

Tank Name	Storm Water Runoff Discharge Flow Rate	Discharge Point	Discharge Point Latitude Longitude	Receiving Water
Tanks A,B,C,&D	420,000	001	33 °45' 42" N; 118 °05'32" W	Los Alamitos Channel then to Orange County Flood Control Retention Basin and pump to San Gabriel River within the Estuary
Tank E	220,000	002	33 °45' 42" N; 118 °05'32" W	
Tanks F&G	590,000	003	33 °46' 03" N; 118 °05'44" W	
Tanks H&J	715,000	004	33 °46' 11" N; 118 °05'44" W	

4. Order No. R4-2006-0054 prescribes effluent limits for the following toxic pollutants based on the California Toxic Rule (CTR)-based final effluent limitations. The final effluent limitations are as follows:

a) Final Effluent Limitations - Discharge Point 001 (Tank Farms A,B,C,&D):

Constituents	Units	Discharge Limitations Daily maximum	Rationale
Copper, Total Recoverable	µg/L lbs/day ¹	5.8 0.02 ¹	CTR ²
Lead, Total Recoverable	µg/L lbs/day ¹	14 0.05 ¹	CTR ²
Nickel, Total Recoverable	µg/L lbs/day ¹	13.6 0.05 ¹	CTR ²
Zinc, Total Recoverable	µg/L lbs/day ¹	95.1 0.33 ¹	CTR ²
Cyanide	µg/L lbs/day ¹	1.0 0.004 ¹	CTR ²

1 The mass limitations in lbs/day were calculated using the concentration limits and the maximum flow rate of 420,000 gallons per day [0.420 million gallons per day (mgd)].

2 CTR – California Toxic Rule

b) Final Effluent Limitations - Discharge Point 002 (Tank Farm E):

Constituents	Units	Discharge Limitations Daily maximum	Rationale
Arsenic, Total Recoverable	µg/L lbs/day ¹	59.1 0.11 ¹	CTR ²
Chromium VI, Total Recoverable	µg/L lbs/day ¹	82.7 0.15 ¹	CTR ²
Copper, Total Recoverable	µg/L lbs/day ¹	5.8 0.011 ¹	CTR ²
Lead, Total Recoverable	µg/L lbs/day ¹	14 0.03 ¹	CTR ²
Nickel, Total Recoverable	µg/L lbs/day ¹	13.6 0.025 ¹	CTR ²
Zinc, Total Recoverable	µg/L lbs/day ¹	95.1 0.174 ¹	CTR ²

Constituents	Units	Discharge Limitations Daily maximum	Rationale
Cyanide	µg/L lbs/day ¹	1.0 0.002 ¹	CTR ²
Beta-BHC	µg/L lbs/day ¹	0.09 0.0002 ¹	CTR ²
Chlordane	µg/L lbs/day ¹	0.00112 0.000002 ¹	CTR ²
4,4' -DDT	µg/L lbs/day ¹	0.00118 0.000002 ¹	CTR ²
PCB' s	µg/L lbs/day ¹	0.00034 0.00000060 ¹	CTR ²

¹ The mass limitations in lbs/day were calculated using the concentration limits and the maximum flow rate of 220,000 gallons per day (0.220 mgd).

² CTR – California Toxic Rule

c) Final Effluent Limitations - Discharge Point 003 (Tank Farms F&G):

Constituents	Units	Discharge Limitations Daily maximum	Rationale
Copper, Total Recoverable	µg/L lbs/day ¹	5.8 0.029 ¹	CTR ²
Lead, Total Recoverable	µg/L lbs/day ¹	14 0.069 ¹	CTR ²
Nickel, Total Recoverable	µg/L lbs/day ¹	13.6 0.067 ¹	CTR ²
Zinc, Total Recoverable	µg/L lbs/day ¹	95.1 0.47 ¹	CTR ²
Cyanide	µg/L lbs/day ¹	1.0 0.005 ¹	CTR ²

¹ The mass limitations in lbs/day were calculated using the concentration limits and the maximum flow rate of 590,000 gallons per day (0.590 mgd).

² CTR – California Toxic Rule

d) Final Effluent Limitations - Discharge Point 004 (Tank Farms H&J):

Constituents	Units	Discharge Limitations Daily maximum	Rationale
Copper, Total Recoverable	µg/L lbs/day ¹	5.8 0.035 ¹	CTR ²
Lead, Total Recoverable	µg/L lbs/day ¹	14 0.084 ¹	CTR ²
Nickel, Total Recoverable	µg/L lbs/day ¹	13.6 0.082 ¹	CTR ²
Zinc, Total Recoverable	µg/L lbs/day ¹	95.1 0.57 ¹	CTR ²

¹ The mass limitations in lbs/day were calculated using the concentration limits and the maximum flow rate of 715,000 gallons per day (0.715 mgd).

² CTR – California Toxic Rule

The final effluent limitations prescribed are the result of an evaluation for reasonable potential for these contaminants to exist in the discharge. The limits for the above-mentioned pollutants were based on the California Toxics Rule (CTR) to protect the beneficial uses of the receiving water. The USEPA promulgated the CTR criteria to protect the general population at an incremental cancer risk level of one in a million (10^{-6}), for all priority toxic pollutants regulated as carcinogens.

5. Monitoring data indicate that the concentrations of arsenic, chromium VI, copper, lead, nickel, zinc, cyanide, beta-BHC, chlordane, 4,4' -DDT, and polychlorinatedbiphynels (PCBs) are exceeding the CTR water quality criteria. The Discharger has demonstrated that it is infeasible to immediately achieve compliance with the CTR criteria for these constituents.
6. This Time Schedule Order (TSO) includes interim limits for arsenic, chromium VI, copper, lead, nickel, zinc, cyanide, beta-BHC, chlordane, 4,4' DDT, and PCBs based on the Facility' s performance. This TSO will provide the required time to investigate and implement any required upgrades to bring the Haynes Generating Station Tank Farms into compliance with the final limitations for these toxic pollutants.
7. The action taken by this Regional Water Board pertaining to the TSO does not preclude the possibility of actions to enforce the waste discharge requirements and permit by third parties pursuant to section 505 of the Federal Clean Water Act.
8. The Regional Water Board may reopen this TSO at its discretion or at the request of the Discharger, if warranted.

The Regional Water Board has notified the Discharger and interested agencies and persons of its intent to adopt a Time Schedule Order concerning violations or threatened violations of waste discharge requirements.

The Regional Water Board, in a public hearing, heard and considered all testimony pertinent to this matter. All Orders referred above, record of hearings and testimony therein, are included herein by reference.

IT IS HEREBY ORDERED that, pursuant to the California Water Code Section 13300, Los Angeles Department of Water and Power, as owner and operator of Haynes Generating Station Tank Farms; A,B,C,&D; E; F&G; H&J shall:

1. Comply with the following interim effluent limits for the duration of the TSO. These interim limits are in effect until May 17, 2010. During this time the Discharger will investigate and implement any required upgrades to ensure that on May 18, 2010, the discharge meets final effluent limits contained in NPDES Order No. R4-2006-0054:

a. Interim Effluent Limitations - Discharge Point 001 (Tanks A,B,C, & D)

Constituents	Units	Discharge Limitations Daily Maximum^[1]
Copper, Total Recoverable	µg/L	60
	lbs/day	0.21
Lead, Total Recoverable	µg/L	51
	lbs/day	0.179
Nickel Total Recoverable	µg/L	35
	lbs/day	0.123
Zinc, Total Recoverable	µg/L	274
	lbs/day	0.96
Cyanide	µg/L	5
	lbs/day	0.175

¹ The interim effluent limitations were based on the Facility' s maximum effluent concentration (MEC)

² The mass limitations in lbs/day were calculated using the concentration limits and the maximum flow rate of 0.420 mgd.

b. Interim Effluent Limitations - Discharge Point 002 (Tank E)

<u>Constituents</u>	<u>Units</u>	<u>Discharge Limitations Daily Maximum</u> ^[1]
Arsenic, Total Recoverable	µg/L	54
	lbs/day	0.10
Chromium, Total Recoverable	µg/L	110
	lbs/day	0.202
Copper, Total Recoverable	µg/L	360
	lbs/day	0.661
Lead, Total Recoverable	µg/L	350
	lbs/day	0.642
Nickel, Total Recoverable	µg/L	240
	lbs/day	0.440
Zinc, Total Recoverable	µg/L	1900
	lbs/day	3.486
Cyanide	µg/L	6
	lbs/day	0.011
Beta-BHC	µg/L	0.05
	lbs/day	0.000092
Chlordane	µg/L	0.03
	lbs/day	0.000055
4,4' -DDT	µg/L	0.03
	lbs/day	0.000055
PCB' s	µg/L	3
	lbs/day	0.0055

¹ The interim effluent limitations were based on the Facility' s maximum effluent concentration (MEC).

² The mass limitations in lbs/day were calculated using the concentration limits and the maximum flow rate of 0.220 mgd.

c. Interim Effluent Limitations - Discharge Point 003 (Tank F&G)

Constituents	Units	Discharge Limitations Daily Maximum^[1]
Copper, Total Recoverable	µg/L	40
	lbs/day	0.197
Lead, Total Recoverable	µg/L	14
	lbs/day	0.069
Nickel Total Recoverable	µg/L	23
	lbs/day	0.113
Zinc, Total Recoverable	µg/L	286
	lbs/day	1.41
Cyanide	µg/L	9
	lbs/day	0.044

¹ The interim effluent limitations were based on the Facility' s maximum effluent concentration (MEC).

² The mass limitations in lbs/day were calculated using the concentration limits and the maximum flow rate of 0.590 mgd.

d. Interim Effluent Limitations - Discharge Point 004 (Tank H&J)

Constituents	Units	Discharge Limitations Daily Maximum^[1]
Copper, Total Recoverable	µg/L	151
	lbs/day	0.900
Lead, Total Recoverable	µg/L	69
	lbs/day	0.411
Nickel Total Recoverable	µg/L	99
	lbs/day	0.59
Zinc, Total Recoverable	µg/L	1,050
	lbs/day	6.26

¹ The interim effluent limitations were based on the Facility' s maximum effluent concentration (MEC).

² The mass limitations in lbs/day were calculated using the concentration limits and the maximum flow rate of 0.715 mgd.

2. Submit annual progress reports of efforts towards compliance with the effluent limits and/or diversion of the discharge. Annual Reports shall be submitted to this Regional Water Board by January 30th and shall include milestones completed and any new pertinent updates.

Los Angeles Department of Water and Power
Haynes Generating Station
Tank Farms: A,B,C,&D; E; F&G; and H&J
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CA0057649

3. If the Discharger fails to comply with any provisions of this Order, the Executive Officer may issue an Administrative Civil Liability Complaint pursuant to California Water Code Section 13323. The Regional Board may also refer the case to the Attorney General for injunction and civil monetary remedies, pursuant to California Water Code sections 13331 and 13385.
4. All other provisions of NPDES Order No. R4-2006-0054, not in conflict with this Order, are in full force and effect.
5. This Time Schedule Order expires on May 17, 2010.

I, Jonathan S. Bishop, Executive Officer, do hereby certify that the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region, on June 8, 2006.



Jonathan S. Bishop
Executive Officer