

LA Sanitation & Environment Hyperion Water Reclamation Plant

JULY 11, 2021 INCIDENT REPORT

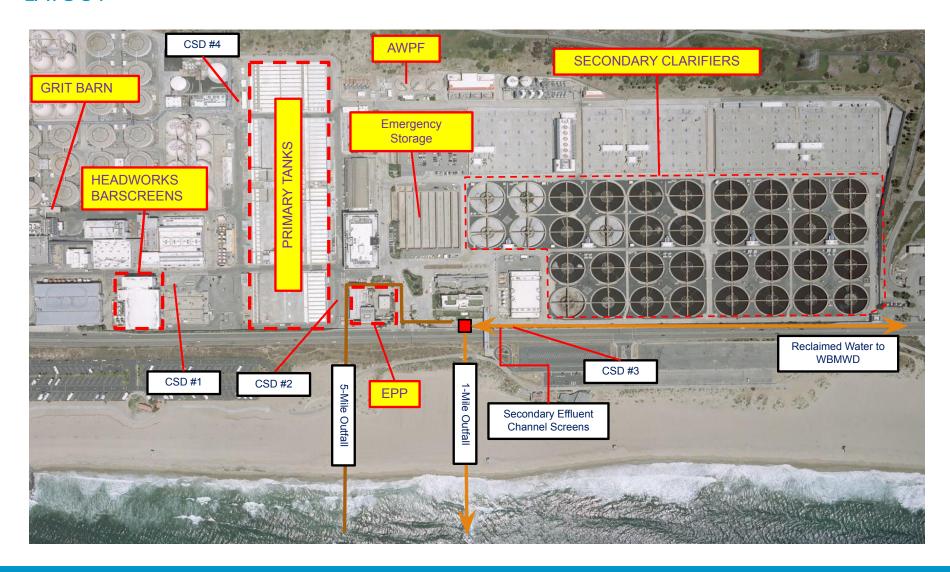
Presentation to the honorable Council President Nury Martinez and the Los Angeles City Council



www.lacitysan.org/hyperion2021recovery

HYPERION WATER RECLAMATION PLANT

LAYOUT

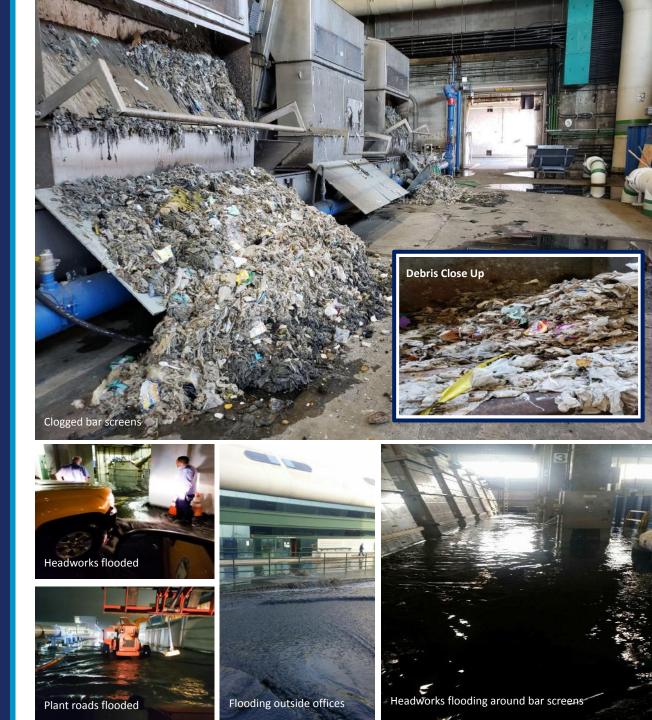


OVERVIEW

July 11, 2021

- 12:00pm Headworks bar screens begin experiencing problems - 4 were in service.
- 3:00pm Untreated wastewater overflowed out of Headworks onto plant roadways
- 7:00pm Untreated wastewater overflowed into 1-mile outfall
- 7:59pm Plant notified CA
 Office of Emergency
 Services (OES)
- 8:11pm OES notified LA County Dept. of Public Health
- 8:18pm Plant notified National Response Center
- 9:30pm LA County Dept. of Public Health arrived at Hyperion

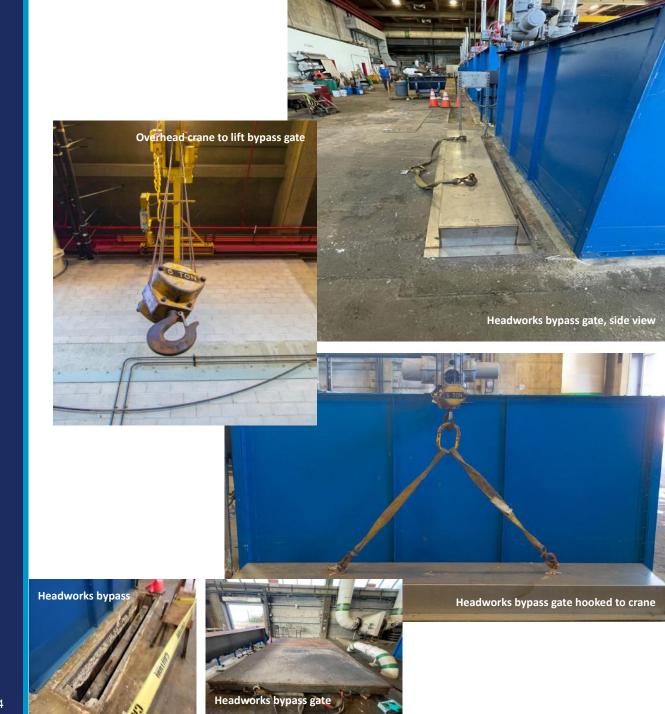




OVERVIEW

July 12, 2021

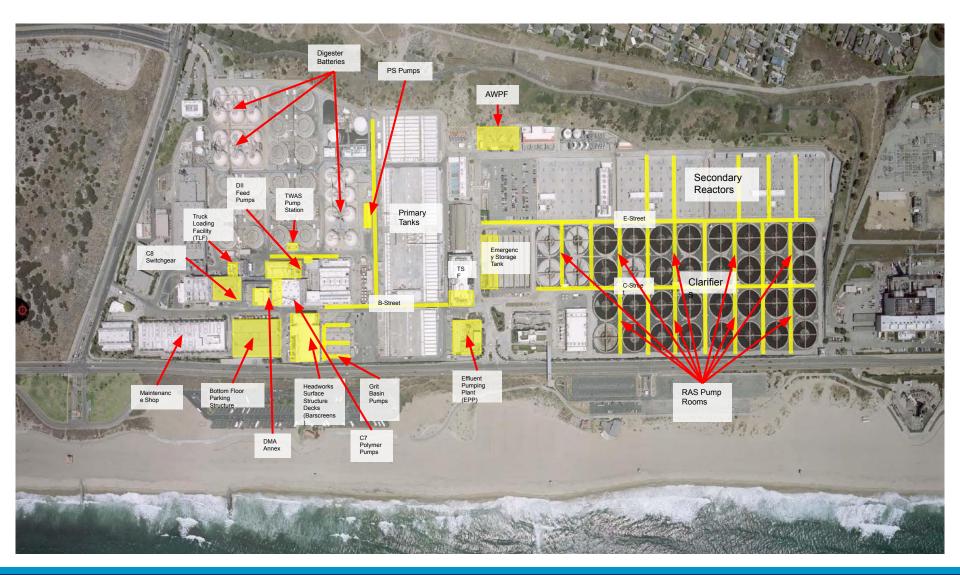
- 4:30am Opened bypass gate to stop overflow of untreated wastewater out of Headworks building
- 8:41am Overflow of untreated wastewater into 1-mile outfall stopped and recovery efforts began





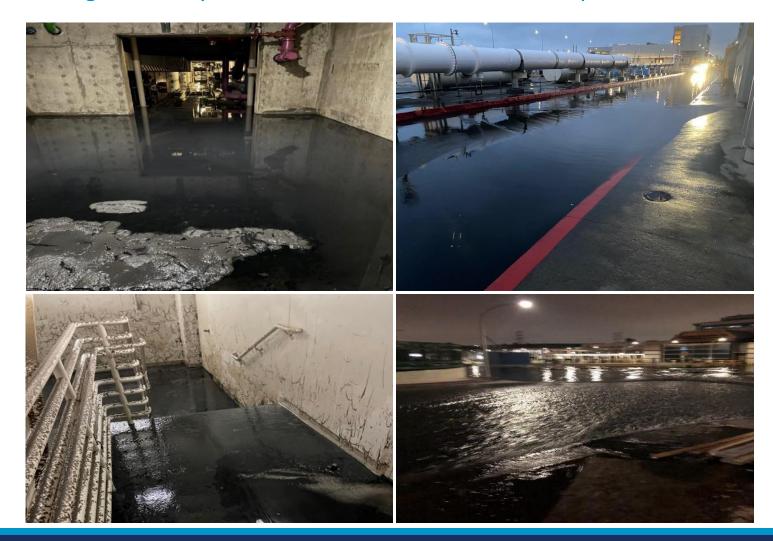
IMPACT TO HWRP

Below Ground Flooding



IMPACT TO HWRP

Plant was flooded with untreated wastewater: damaging equipment and threatening the safety of staff; offices and elevators compromised



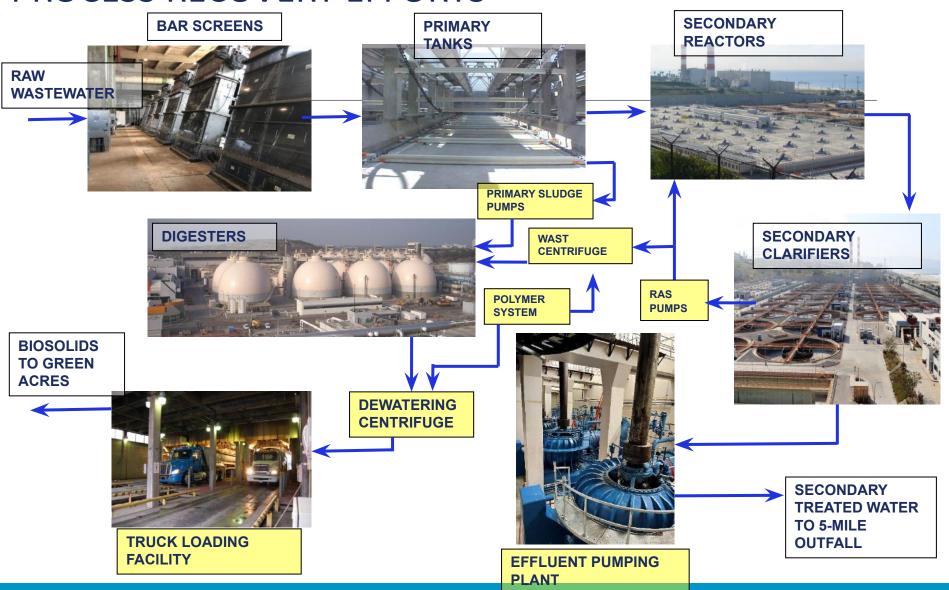
IMPACT TO HWRP

Advanced Water Purification Facility construction site flooded

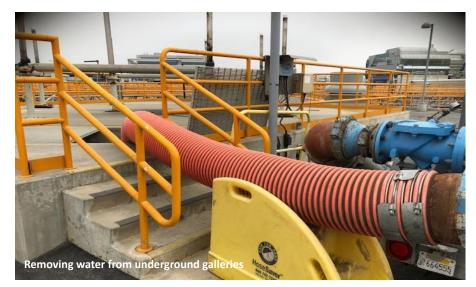


Site after flooding

HYPERION WATER RECLAMATION PLANT PROCESS RECOVERY EFFORTS



HWRP PROCESS RECOVERY EFFORTS











REGULATORY OVERSIGHT

NPDES Permit

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD LOS ANGELES REGION

320 West 4th Street, Suite 290, Los Angeles, California, 90013 (213) 576-6800 • Fax (213) 576-6793

U.S. ENVIRONMENTAL PROTECTION AGENCY

REGION IX
75 Hawthome Street, Sen Francisco, California 94105-3801
Phone: (415) 947-6707 Fax: (415) 947-3545
http://www.epa.gov/region09

ORDER R4-2017-0045 NPDES NO. CA0109991

WASTE DISCHARGE REQUIREMENTS AND
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT
FOR THE CITY OF LOS ANGELES, HYPERION TREATMENT PLANT
DISCHARGE TO THE PACIFIC OCEAN

The following Permittee is subject to state Waste Discharge Requirements (WDRs) and federal National Pollutant Discharge Elimination System (NPDES) permit requirements, as set forth in this Order/Demit:

Table 1. Discharger Information

Discharger	City of Los Angeles (City, Permittee, or Discharger)					
Name of Facility	Hyperion Treatment Plant (HTP or Facility)					
Facility Address	12000 Vista del Mar Boulevard					
	Playa del Rey, CA 90293					
	Los Angeles County					

Table 2. Discharge Location

Discharge Point	Description	Latitude (North)	Longitude (West)	Water
001 (1-Mile Outlall)	Secondary treated wastewater	33.918333° N	118.447500°W	Pacific Ocean
002 (Y-shaped diffuser) (5-Mile Outfall) North Leg South Leg	Secondary treated wastewater	33.911967° N 33.919333° N 33.900650° N	118.521450°W 118.528483°W 118.527267°W	Pacific Ocean

CITY OF LOS ANGELES HYPERION TREATMENT PLANT ORDER R4-2017-0045 NPDES NO. CA0109991

included in the permit application. Pursuant to 40 CFR § 122.44(j)(1), the Permittee shall annually identify and report, in terms of character and volume of pollutants, any Significant industrial Users discharging to the POTIV subject to Pretreatment Standards under section 307(b) of the CVA and 40 CFR § 403.

- iv. The Permittee shall evaluate whether its pretreatment local limits are adequate to meet the requirements of this Order/Permit (including mass emission benchmarks) and shall submit a written technical report as required under section if of Attachment I. The Permittee shall submit revised local limits to the Regional Water Board and USEPA for approval, as necessary. In addition, the Permittee shall consider collection system overflow protection from such constituents as oil and grease, etc.
- The Permittee shall comply with requirements contained in Attachment I Pretreatment Reporting Requirements.

6. Collection System Requirements

The Permittee is subject to the requirements of, and must comply with State Water Resources Control Board (State Water Board) Order 2006-0003-DWQ, Statewide General Waste Discharge Requirements for Sanitary Sewer Systems, including monitoring and reporting requirements as amended by State Water Board Order WQ

7. Spill Reporting Requirements for POTWs

a. Initial Notification

Although State and Regional Water Board staff do not have duties as first responders, this requirement is an appropriate mechanism to ensure that the agencies that do have first responder duties are notified in a timely manner in order to protect public health and beneficial uses. For certain spils, overflows and bypasses, the Permittee shall make notifications as required below:

- In accordance with the requirements of Health and Safety Code section 5411.5, the Permittee shall provide notification to the local health officer or the director of environmental health with jurisdiction over the affected water body of any unauthorized release of sewage or other waste that causes, or probably will cause, a discharge to any waters of the state as soon as possible, but no later than two hours after becoming aware of the release.
- ii. In accordance with the requirements of CWC section 13271, the Permittee shall provide notification to the California Office of Emergency Services (Cal OES) of the release of reportable amounts of hazardous substances or sewage that causes, or probably will cause, a discharge to any waters of the state as soon as possible, but not later than two hours after becoming aware of the release. The CCR, Title 23, section 2250, defines a reportable amount of sewage as being 1,000 gallons. The phone number for reporting these releases to the Cal OES is (800) 852-7550. In addition, the Permittee shall notify Heat the Bay of any such sewage safe.
- iii. The Permittee shall notify the Regional Water Board and USEPA of any unauthorized release of sewage from its POTM that causes, or probably will cause, a discharge to a water of the state as soon as possible, but not later than two hours after becoming aware of the release. This initial notification





Los Angeles Regional Water Quality Control Board

July 29, 2021

Barbara Romero, Director and General Manager City of Los Angeles LA Sanitation and Environment 1149 South Broadway Street, 9th Floor Los Angeles, CA 90015-2213

Via FedEx Tracking Number: 8167 1684 4743

REQUIREMENT FOR MONITORING AND STATUS REPORTS PURSUANT TO CALIFORNIA WATER CODE SECTION 13383 ORDER NO. R4-2021-0107 FOR AN UNAUTHORIZED DISCHARGE OF RAW SEWAGE INTO THE PACIFIC OCEAN, CITY OF LOS ANGELES LA SANITATION AND ENVIRONMENT, HYPERION TREATMENT PLANT, CALIFORNIA (MPDES NO. CA0109991, ORDER NO. R4-2017-0045)

Dear Barbara Romero

The California Regional Water Quality Control Board, Los Angeles Region (Regional Water Board), is the public agency with primary responsibility for the protection of ground and surface water quality within major portions of Los Angeles and Ventura Counties.

As part of our effort to protect water quality, enclosed is Order No. R4-2021-0.107 (Order) issued pursuant to California Water Code section 13383. The Regional Water Board issues this Order in response to the unauthorized discharge of raw sewage that occurred from July 11, 2021 through July 12, 2021 from the Hyperion Treatment Plant (HTP). The required monitoring is necessary to assess impacts on the receiving water due to the spill event and ongoing effluent permit limit exceedances caused by HTP's reduced operational abilities because of the spill event. This Order requires the City of Los Angeles, LA Sanitation and Environment (LASAN) to submit monitoring and status reports as required in this Order.

Enclosure: Order No. R4-2021-0107

(xia email) Environmental Protection Agency, Region 9, Permits Branch (WTR-5) NOAA, National Marine Fisheries Service Department of Interior, U.S. Fish and Wildlife Service State Water Resources Control Board, Office of Chief Counsel

State Water Resources Control Board, Office of Enforcement State Water Resources Control Board, Division of Drinking Water Department of Fish and Wildlife, Region 5 California State Parks and Recreation

California Coastal Conservancy California Coastal Commission, South Coast Region Heal the Bay

Environment Now Natural Resources Defense Council U.S. Army Corps of Engineers U.S. Fish and Wildlife Service

Los Angeles County Department of Public Works Southern California Coastal Water Research Project Los Angeles Waterkeeper

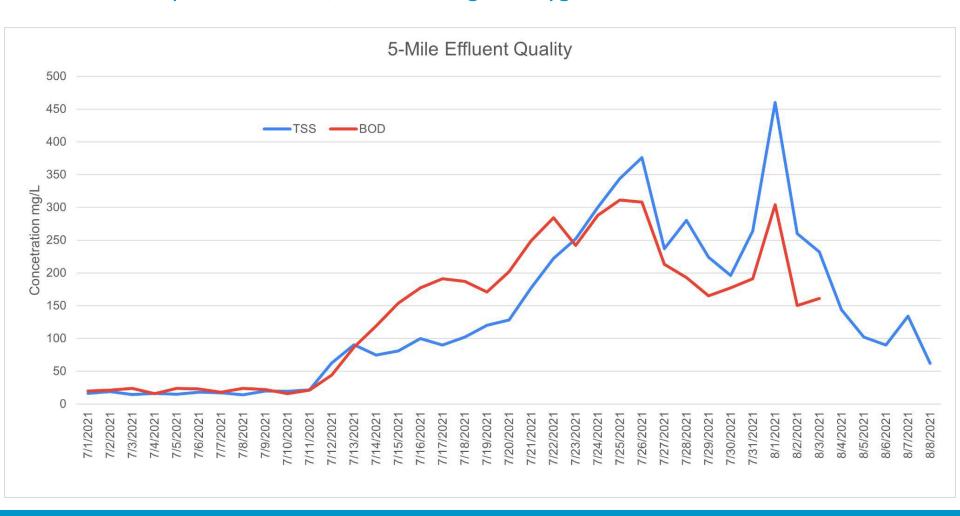
Water Replenishment District of Southern California City of Los Angeles, Department of Water and Power Los Angeles County Sanitation Districts Surfrider Foundation

Click here to download the full permit



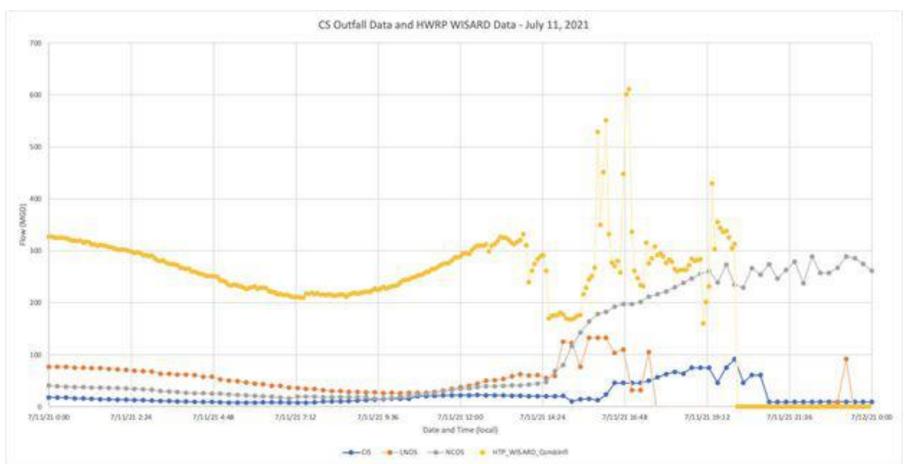
HYPERION WATER RECLAMATION PLANT PROCESS RECOVERY EFFORTS

TSS - total suspended solids / BOD - biological oxygen demand



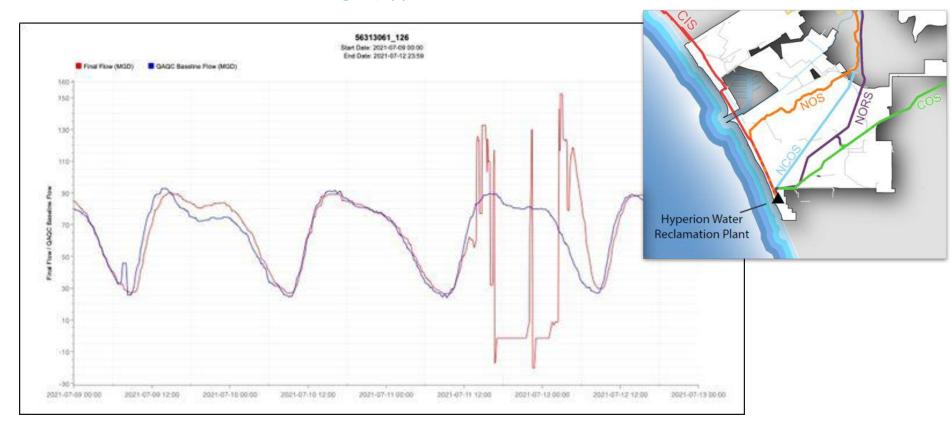
INITIAL INVESTIGATION OF CAUSE

- July 11 flow monitoring data from the five major outfall sewers into Hyperion reviewed for anomalies in flow
- The data verifies major flow deviation in outfall sewers correlating w reports of significant debris at Hyperion



INITIAL INVESTIGATION OF CAUSE

North Outfall Sewer Flow Gauge (typical of all five outfall sewers)



- Analyzed flow data on all 200 flow monitoring sites for:
 - sudden changes in flow velocity & depth of flow
 - any backflow, surcharge, hydraulic abnormality
- Performing visual inspection of 900 maintenance holes w pole cameras looking for:

 o access by outsiders; debris residuals; abnormal flow conditions



INFORMATION SHARING

Hyperion 2021 Recovery web page

- All LASAN lab results
- Correspondence with regulatory agen including violation notices
- Critical process equipment status

U	\mathbf{a}	nt	_ \ /	IC	its
	a	ΙIL	v	13	LLD

- Invitations extended to media, elected officials, and NGOs to visit Hyperion
- Facility and equipment photos shared

Media and Regulatory Agencies

- Full cooperation including inspections, investigations, and sharing of data
- Sending frequent statements with updates

Modernized Communications

- Enhanced relationships with stakeholders and neighboring cities
- More active communications with LA County

				ence Line M	ACCON CONTRACTOR	CHARLES CONTRACTOR							
		#1	#2	#3	#4	#5	#6	#7	#7.5	#8	#9	#10	
Date time	time	Gate A - base e of hill	- base DSF		Top of hills-Primaries	IPS/ Flares	Reactor #9	OGF-Reactor #7		Weather Vane - Reactor #4	Reactor #3	Corner of HTP - Reactor #1	Mi
		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	
7/26/2021		0.00	0.00	0.50	0.57	0.00	0.00	0.00		0.00	0.00	0.00	Je
	1:35 PM	0.00	0.00	0.00	0.00	0.00	0.00	0.00		143.27	0.00	151.67	Je
7/27/2021	9:00 AM	0.00	12.76	16.41	0.00	69.27	20.67	3.87	12.18	657.00	198.25	146.33	Je
	1:00 PM	0.00	2.73	3.45	26.43	23.89	8.22	34,49	188.00	166.00	44.24	139.39	Je
7/28/2021	9:15 AM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	276.00	0.00	0.00	0.00	Je
	1:30 PM	0.00	0.00	0.00	9.13	4.46	0.00	11.39	35.79	19.13	13.99	28.55	Je
7/29/2021	8:45 AM	0.00	0.00	0.00	0.00	11.65	0.00	13.00	10.43	3.14	8.68	13.56	Je
	2:00 PM	0.00	0.00	0.00	11.87	7.35	0.00	10.33	20.68	116.00	26.32	28.4	Je
7/30/2021													\perp
8/1/2021	9:15 AM	0.00	0.00	9.86	0.00	0.00	5.05	8.49	6.06	54.98	0	0	Je
	1:30 PM	0.00	0.00	4.35	15.68	15.96	0.00	8.72	4.85	22.07	109.3	175	Je
8/2/2021	8:45 AM	0.00	15.92	14.12	3.98	13.05	0.00	6.47	27.22	11.10	13.01	48.40	Je
	12:45 Pf	0.00	0.00	0.00	3.71	15.23	0.00	0.00	9.29	5.18	25,36	66.89	Je
8/3/2021	9:30 AM	3.66	6.31	3.91	12.10	10.33	16.04	17.56	17.54	3.57	0.00	0.00	Je
	1:00 PM	0.00	0.00	4.50	7.82	4.63	0.00	14.90	55.18	24.26	32.76	321.50	Je

NEXT STEPS

Several third party assessments undertaken

- Plant protocols and procedures
- Conveyance system
- Communications: education campaign, notification procedures, enhanced collaboration

Facility and Process Improvements

- Implement procedures to open bypass gate at pre-specified water levels
- Seal and waterproof doors to prevent damage to equipment inside plant facilities (46-50 doors)
- Provide multiple connections to reroute flows from the plant storm drain system and minimize overflow of wastewater into Santa Monica Bay in the event of a spill
- Work with AQMD to evaluate and improve air quality monitoring
- Anticipate normal operations resuming end of August

Findings and recommendations in 90 days









QUESTIONS?



For more information about Hyperion Water Reclamation Plant, this incident, and next steps, please visit our website:

www.lacitysan.org/hyperion2021recovery

or call our 24-hour Customer Care Center at 1-800-773-2489

