

# Zone 7 Water Agency

## Del Valle Water Treatment Plant Corporation Yard

### Stormwater Pollution Prevention Plan

---

#### 1. PURPOSE

The San Francisco Bay Regional Water Quality Control Board adopted a municipal regional stormwater permit (MRP) that requires municipalities implement Provision C.2.f of the MRP, Corporation Yard BMP Implementation. This provision requires Zone 7 Water Agency (Zone 7) to minimize pollutant discharges and prohibit non-stormwater discharges from the corporation yard. This Stormwater Pollution Prevention Plan (SWPPP) implements Provision C.2.f of the MRP.

This SWPPP has been prepared to minimize the potential for pollutants to be discharged from Zone 7's Del Valle Water Treatment Plant (Del Valle WTP) Corporation Yard. The primary purpose of the SWPPP is to:

- Identify and evaluate sources of pollutants from the maintenance activities at Del Valle WTP that may affect the quality of stormwater discharges from the facility; and
- Identify and implement site-specific best management practices (BMPs) to reduce or prevent pollutants associated with those maintenance activities in stormwater discharges.

As required by the MRP, this SWPPP focuses on activities related to maintenance activities performed at the corporation yard as well as some outdoor maintenance activities associated with the water treatment plant. In addition to this SWPPP for the corporation yard activities, the water treatment plant operates under the following plans and permits that govern the management of hazardous materials and discharges of potable water:

- Hazardous Materials Business Plan (HMBP) for the storage of hazardous materials.
- Spill Prevention Control and Countermeasures (SPCC) Plan for the storage of petroleum products.
- California Accidental Release Plan (CalARP) for the storage of ammonia.
- Statewide General NPDES Permit 2014-0194-DWQ for Drinking Water System Discharges for Discharges from the Potable Water System.

#### 2. SWPPP UPDATES

Zone 7 will revise this document whenever there is a significant change in activities that may affect the quality of storm runoff. This SWPPP is reviewed annually following the annual inspection (see **Annual Facility Inspection and Reporting**). SWPPP revisions and amendments are logged in **Table 1**.

**Table 1. SWPPP Amendments and Revisions**

<b>Original SWPPP Preparation Date:</b>	2011
<b>Revision Date:</b>	September 20, 2023

### 3. FACILITY CONTACTS AND POLLUTION PREVENTION STAFF

Facility Contact: Maintenance & Construction Supervisor

Contact Phone Number: (925) 454-8768

Staff with specific or general responsibilities for implementing the SWPPP are identified by position, along with a listing of responsibilities, in **Table 2** below.

**Table 2. Staff Positions and Responsibilities**

Position	SWPPP Responsibilities
Maintenance & Construction Supervisor	<ul style="list-style-type: none"> <li>• Implements the SWPPP.</li> <li>• Directs facility staff on the implementation of BMPs.</li> <li>• Conducts periodic inspections of the facility.</li> <li>• Assesses effectiveness of BMPs.</li> <li>• Identifying corrective actions and new BMPs.</li> </ul>
NPDES Coordinator (Principal Engineer for Water Supply Engineering, or designee)	<ul style="list-style-type: none"> <li>• Coordinates SWPPP development and updates.</li> <li>• Provides general guidance to the Maintenance &amp; Construction Supervisor and staff.</li> <li>• Conducts annual inspections.</li> <li>• Maintains annual inspection records.</li> <li>• Documents annual inspection on MRP Annual Report.</li> </ul>
Del Valle WTP Facility Staff	<ul style="list-style-type: none"> <li>• Implements SWPPP and maintains BMPs.</li> <li>• Reports non-stormwater discharges and other pollutant discharges to the Maintenance &amp; Construction Supervisor.</li> </ul>

### 4. FACILITY LOCATION

Facility Address: 901 E. Vineyard Ave., Livermore, CA 94550. See **Figure 1** below.



**Figure 1. Location of Zone 7 Del Valle Water Treatment Plant**

## 5. FACILITY DESCRIPTION

The facility covers approximately 29 acres and includes water treatment facilities, support buildings, a solar panel area, and employee parking lot. In addition to the water treatment plant operations, the facility serves as the general corporation yard for Zone 7. Stormwater within the facility is conveyed via underground piping and swales to the west side of the property, where it discharges into seasonal South Tributary of Arroyo del Valle. A site plan is provided in **Appendix A. Zone 7 Del Valle Water Treatment Plant Site Map/BMP Exhibit**.

## 6. IDENTIFICATION OF POTENTIAL POLLUTANTS AND BEST MANAGEMENT PRACTICES

Materials used and activities conducted at the Water Treatment Plant have the potential to generate stormwater pollutants. Potential pollutants identified are diesel fuel, oil, hydraulic fluid, paint, solvents, herbicides, soap, dirt, silt, sand, gravel, water treatment chemicals, and solids handling residuals from the water treatment processes.

Measures implemented to manage potential sources of pollution to reduce or prevent the discharge of pollutants in stormwater runoff and to address spill prevention and cleanup requirements are termed Best Management Practices (BMPs).

**Table 3** summarizes the general good housekeeping BMPs employed at the Water Treatment Plant. Site specific BMPs based upon the activities and potential pollutants are summarized in **Appendix A. Zone 7 Del Valle Water Treatment Plant Site Map/BMP Exhibit**.

**Table 3. Good Housekeeping BMPs**

BMP Type	BMPs
Good Housekeeping	<ul style="list-style-type: none"> <li>• Maintain a clean and orderly facility.</li> <li>• Put away equipment, tools and materials and clean up trash, debris, and other wastes at the completion of the job or the end of the work shift.</li> <li>• Properly store and dispose of all hazardous and liquid wastes.</li> <li>• Avoid painting or applying coatings when rain is predicted.</li> <li>• Promptly collect and properly store all wastes from maintenance activities.</li> <li>• Clean paintbrushes and tools covered in water-based paints in a sink connected to the septic system.</li> <li>• Use drop cloths underneath outdoor painting, scraping, abrasive or grinding work.</li> <li>• Keep lids on trash cans stored outdoors.</li> <li>• Report any non-stormwater discharges to the Maintenance &amp; Construction Supervisor.</li> <li>• Clean up all leaks, drips, and spills upon identification.</li> <li>• Maintain spill kits.</li> <li>• Never hose down a spill or bury a spill.</li> <li>• Sweep up and properly dispose dry materials.</li> <li>• Use rags or absorbents to clean up liquid materials.</li> <li>• Promptly clean up and dispose of absorbents.</li> </ul>

## **7. EMPLOYEE TRAINING AND STORMWATER AWARENESS**

Key members of the pollution prevention team participate in stormwater training provided by the Alameda Countywide Clean Water Program, stormwater consultants, or the Zone 7 NPDES Coordinator. BMPs are reviewed with the Maintenance & Construction Supervisor annually during the facility inspection.

## **8. ANNUAL FACILITY INSPECTION AND REPORTING**

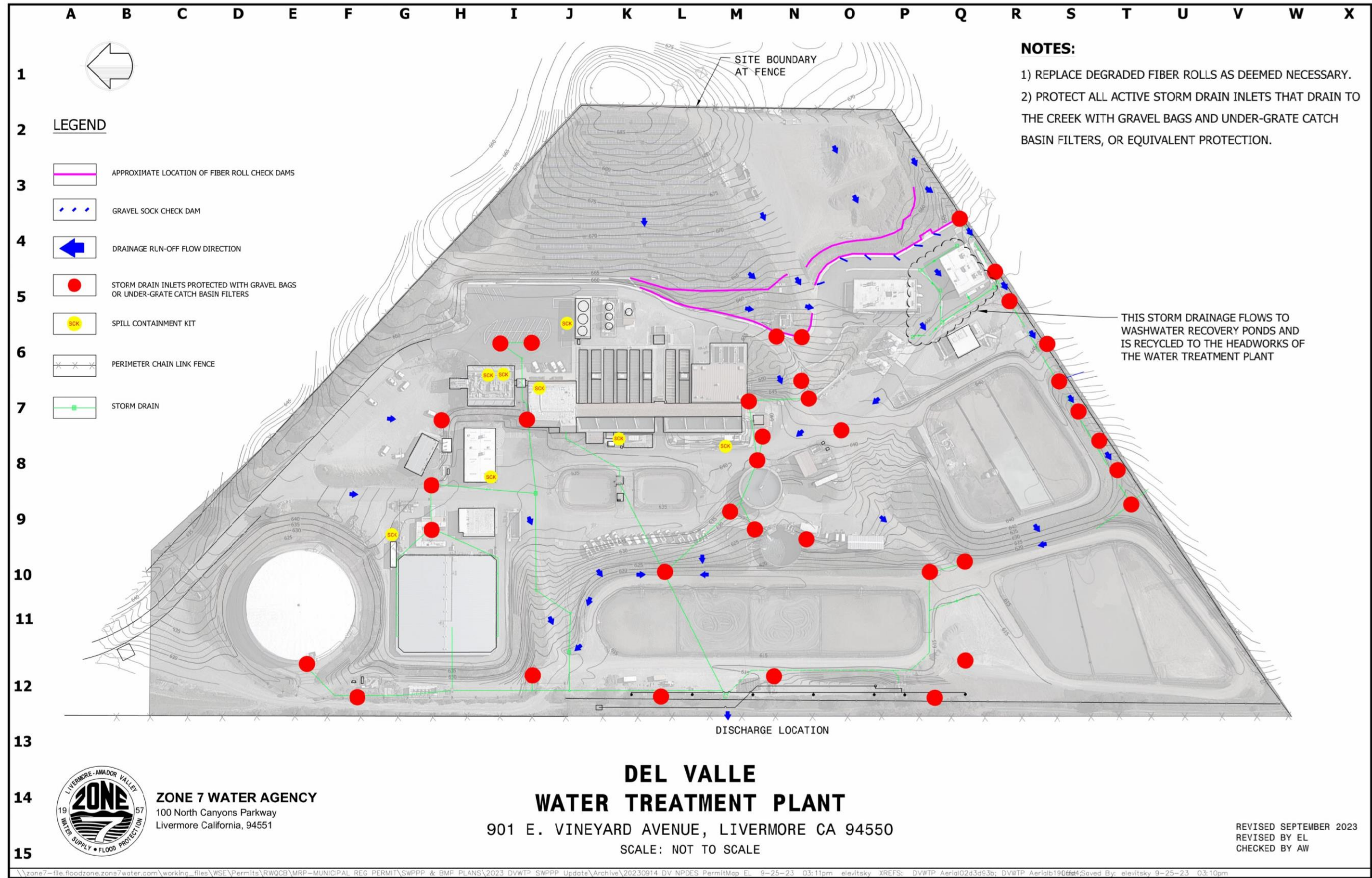
A comprehensive stormwater pollution prevention inspection must be conducted at least once annually, between August 1 and September 30. Corrective actions identified during the inspection must be implemented before the next rain event or no later than 10 days following the inspection. In cases where more than 10 days are required, a temporary solution must be implemented and the rationale for the additional time to implement a permanent solution must be documented. As needed, the SWPPP will be updated as described in **SWPPP Updates**.

The annual inspection is documented on the inspection form provided in **Appendix B. Inspection Form**. Inspection records are maintained by the Stormwater Coordinator.

Zone 7 is required to report on implementation of this plan, the results of the annual inspection, and any follow-up actions in the MRP Annual Report.



# Appendix A. Zone 7 Del Valle Water Treatment Plant Site Map/BMP Exhibit



## Summary of Outdoor Activities, Potential Pollutants, and BMPs

Activity	Potential Pollutants	BMPs Implemented	Implementation Schedule
Equipment Fueling (Emergency Generator)	Diesel	<ul style="list-style-type: none"> <li>• Tank fill point has spill containment.</li> <li>• Fuel tank has double containment.</li> <li>• Implement the SPCC Plan.</li> <li>• No vehicle fueling occurs at the Water Treatment Plant.</li> </ul>	As needed
Vehicle and Equipment Washing (approx. 12 vehicles are washed 1-2 times per month)	Soap, sediment	<ul style="list-style-type: none"> <li>• Washing is limited to designate wash area.</li> <li>• Steam cleaning process (vehicle exteriors only) uses minimal water.</li> <li>• Designated wash area is contained on pervious ground for both evaporation and infiltration into ground.</li> </ul>	Routine
Vehicle & Equipment Maintenance and Repair	Oil, diesel, hydraulic fluid	<ul style="list-style-type: none"> <li>• Maintain fleet vehicles off-site.</li> <li>• Use drip pans for leaking vehicles and arrange for prompt maintenance.</li> <li>• Use drip pans or cloths when maintaining bobcat tractor.</li> <li>• Promptly clean-up drips and leaks using dry clean-up methods.</li> <li>• Collect and properly dispose of used absorbent materials.</li> </ul>	As needed
Outdoor Container Loading/Unloading of Materials  (Bulk water treatment chemicals are unloaded outdoors)	Coagulant, polymers, sodium hypochlorite, ammonia, caustic soda, liquid oxygen, carbon dioxide	<ul style="list-style-type: none"> <li>• Plant operators supervise the connection and unloading of chemicals by the driver at the delivery points.</li> <li>• Maintain spill containment kits nearby for minor spills.</li> <li>• Maintain and implement the Chemical Ordering and Receiving SOP.</li> <li>• Maintain and implement the Emergency Operations Plan for major spills.</li> </ul>	Implement during deliveries
Outdoor Process Equipment Operations & Maintenance  (Occasional oil changes for motors, pumps)	Oil	<ul style="list-style-type: none"> <li>• Use dry clean-up methods for all spilled fluids.</li> <li>• Collect and properly dispose of used absorbent materials.</li> </ul>	During maintenance
Outdoor Storage of Raw Materials	Gravel, sand, sediment, metals	<ul style="list-style-type: none"> <li>• Store gravel and sand on unpaved area, where possible, to minimize potential runoff.</li> <li>• Store steel piping on pallets.</li> <li>• Use containers (such as cargo containers) for materials that may leak or weather and release pollutants.</li> <li>• Use the covered area of the yard for storing items that may leak or weather and release pollutants.</li> <li>• Sweep the paved areas of the yard, when needed.</li> <li>• Maintain orderly yard and schedule regular removal of unnecessary materials for recycling or disposal.</li> </ul>	Routine  Inspect during rainy season (October 15-April 15)

## Summary of Outdoor Activities, Potential Pollutants, and BMPs

Activity	Potential Pollutants	BMPs Implemented	Implementation Schedule
		<ul style="list-style-type: none"> <li>Observe storage areas before predicted storm events to confirm installation of BMPs and identify needed maintenance.</li> <li>Observe storage areas following storm events to confirm effectiveness and identify needed maintenance.</li> </ul>	
John Waste Handling and Disposal (Sludge Stockpile)	Alum residual, sediment	<ul style="list-style-type: none"> <li>Control runoff from temporary sludge stockpile area.</li> <li>Install fiber rolls, check dams, vegetated buffers (hydro-seeding or erosion blankets), and/or swales per recommendations during annual inspection.</li> <li>Observe stockpile and BMPs before predicted storm events to confirm installation of BMPs and identify needed maintenance.</li> <li>Observe stockpile and BMPs following storm events to confirm effectiveness and identify needed maintenance.</li> </ul>	Implement BMPs year-round, inspect during rainy season (October 15-April 15)
Landscape Maintenance	Vegetative debris, herbicides	<ul style="list-style-type: none"> <li>Staff does not apply pesticides (including herbicides) as part of their job duties. Only contractors with appropriate licenses and IPM training are to apply pesticides (including herbicides).</li> <li>Implement IPM Policy and SOP.</li> <li>Clean up after periodic mowing and tree pruning, and arrange for proper recycling or disposal of vegetation waste.</li> </ul>	As needed
Parking Lot, Access Roads and Cleaning	Sediment	<ul style="list-style-type: none"> <li>Sweep/vacuum as needed including prior to rain events and during rainy season.</li> <li>Contain wash water from high pressure or steam cleaning of parking lot and access roads; arrange for proper disposal.</li> </ul>	Implement BMPs year-round
Storm Drain Maintenance and Operation (inlets, v-ditches)	Gravel, sand, silt	<ul style="list-style-type: none"> <li>Clean ditches of debris prior to rainy season and as needed during rainy season based on observations.</li> <li>Inspect gravel bags and inlet filter sacks prior to rainy season and as needed during rainy season; replace when needed.</li> <li>Maintain Drains To Bay signage/stencils/medallions on storm drain inlets.</li> </ul>	Annual August 1 - October 15. Inspect during rainy season (October 15 - April 15)
Water Production	Water, residual chlorine	<ul style="list-style-type: none"> <li>Implement BMP Plan for the Statewide General NPDES Permit 2014-0194-DWQ for Drinking Water System Discharges for Discharges from the Potable Water System.</li> </ul>	As needed
Hazardous Materials Storage	Oils, paints, solvents, other chemicals, etc.	<ul style="list-style-type: none"> <li>Use designated dual containment building designed for hazardous materials storage.</li> <li>Implement the requirements of the HMBP.</li> <li>Implement the requirements of the SPCC Plan.</li> </ul>	Routine

# Appendix B. Inspection Form

I. General Information		
a. Date and Time of Observations:	b. Name of Staff Conducting Observations (Please Print):	
c. Photos Taken: <input type="checkbox"/> Yes <input type="checkbox"/> No	d. Weather at Time of Inspection: <input type="checkbox"/> Clear <input type="checkbox"/> Overcast <input type="checkbox"/> Rain	
II. Non-Stormwater Discharge Observations		
a. Were any non-stormwater discharges observed? <input type="checkbox"/> Yes <input type="checkbox"/> No		
b. If Yes, identify source of the non-stormwater discharge and identify corrective action in Section IV.		
c. Identify if the discharge contained any of the following:		
Floating or Suspended Material.....	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> NA (if no discharges)
Oil Sheen .....	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> NA (if no discharges)
Discoloration .....	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> NA (if no discharges)
Turbidity .....	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> NA (if no discharges)
Odor.....	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> NA (if no discharges)
Did discharge enter storm drain drop inlets? .....	<input type="checkbox"/> Yes	<input type="checkbox"/> No <input type="checkbox"/> NA (if no discharges)
III. Facility Visual Observations		
a. Any surface stains that may indicate a spill? .....		
	<input type="checkbox"/> Yes	<input type="checkbox"/> No
b. Evidence of trash or litter in the facility? .....		
	<input type="checkbox"/> Yes	<input type="checkbox"/> No
c. Evidence of improperly stored materials that may release pollutants?.....		
	<input type="checkbox"/> Yes	<input type="checkbox"/> No
d. Evidence of potential or actual discharge of pollutants from the facility? .....		
	<input type="checkbox"/> Yes	<input type="checkbox"/> No
e. Evidence of missing or inadequate BMPs in the facility? .....		
	<input type="checkbox"/> Yes	<input type="checkbox"/> No
IV. Corrective Actions		
If any of the above is yes, describe and identify the corrective action and date action is completed.		
Issue	Correction Action Planned	Date Completed

Attach additional pages or supplemental information if needed.



Instructions: Keep records of periodic and annual site inspections. During the inspection, verify that BMPs are being implemented and evaluate whether they are adequate.

Facility Name: Del Valle Water Treatment Plant

Date Inspected	Name of Inspector	Description of Activity or Spill/Discharge Incident	Description of Actions to be Taken, Additional BMPs to be Implemented	Implementation Schedule