STORM WATER POLLUTION PREVENTION PLAN

City of Berkeley Transfer Station and Recycling Center
1201 Second Street and 669 Gilman Street
Berkeley, California

Prepared for:

City of Berkeley
Berkeley, California

Prepared by:

WSP USA Environment & Infrastructure Inc.
555 12th Street, Suite 215
Oakland, California 94607

March 2023

Project No. 5025220024

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REVISION SHEET

All revisions to the Storm Water Pollution Prevention Plan must be documented. Presented below is a listing, by date, of the sections that have been revised.

Revision 1

Date:	November 20, 2015
Section(s) Revised:	M. MONITORING IMPLEMENTATION PLAN (MIP)
Purpose of Revision:	Pollutant assessment added copper
Revised By:	Jim Honniball
Title:	Associate Scientist

Revision 2

Date:	November 30, 2015
Section(s) Revised:	Table of Contents, Figures 2 & 3, MIP sections M.4.A, M.4.B, M.5.A, M.5.G
Purpose of Revision:	Place holders for inspection/observation forms, weather tracking and BMPs on figures
Revised By:	Jim Honniball
Title:	Associate Scientist

Revision 3

Date:	October 28, 2016
Section(s) Revised:	The majority of the SWPPP
Purpose of Revision:	New BMP implementation
Revised By:	Jim Honniball
Title:	Associate Scientist

Revision 4

Date:	December 21, 2017
Section(s) Revised:	
Purpose of Revision:	Additional BMP implementation and analytical sampling suite
Revised By:	Jim Honniball
Title:	Associate Scientist

Revision 5

Date:	August 7, 2018
Section(s) Revised:	M.5. G
Purpose of Revision:	Update ERA Level
Revised By:	Joy Brown
Title:	Senior Management Analyst

Revision 6

Date:	June 15, 2021
Section(s) Revised:	B, C, E, F.1, F.2, F.4, G, H.1, J.1, L (H.4a), M.2, M.5.7, Site Map Figure 2
Purpose of Revision:	Update pollution team, industrial areas, minimum BMPs, exposure BMPs, sample reduction and QISP information
Revised By:	Jim Honniball
Title:	Associate Scientist TofR QISP, QSD/QSP

Revision 7

Date:	May 26, 2022
Section(s) Revised:	C.2, C.3, F.2-4, 8, 10, 11, 12, 13, 14, F.3-4, F.7-3, 6, G, J.2, L, M.5.3, Figures, 2, 3 and 4, Appendix C and D
Purpose of Revision:	Annual review
Revised By:	Jim Honniball
Title:	Associate Scientist TofR QISP, QSD/QSP

Revision 8

Date:	March 31, 2023
Section(s) Revised:	A.2, B.1-B.3, F.1.3, F.1.7, F.1.11, F.1.14 F.2.7, F.2.11, F.2.14, F.7.1, F.7.3 – 5, F.7.8, F.7.12, G, Sections X.H.1.a.ii X.H.1.a.iv, X.H.1.b.ii, X.H.1.b.iii, X.H.1.b.iv, X.H.1.c.i, X.H.1.c.ii, X.H.1.c.iii, X.H.1.d.v, J.2, J.3, L, M.2, M.7.
Purpose of Revision:	Update BMP information and request from Water Board
Revised By:	Jim Honniball

Title: Assistant-Vice President, Environmental Scientist, CPESC, TofR IGP, CGP, QISP, QSD,QSP

Revision 9

Date: _____

Section(s) Revised: _____

Purpose of Revision: _____

Revised By: _____

Title: _____

STORM WATER POLLUTION PREVENTION PLAN

City of Berkeley Transfer Station and Recycling Center
1201 Second Street and 669 Gilman Street
Berkeley, California

A. INTRODUCTION

This document is the Storm Water Pollution Prevention Plan (SWPPP) for the City of Berkeley (City) Transfer Station and Recycling Center located at 1201 Second Street and 669 Gilman Street, Berkeley, California, respectively. The Recycling Center is owned by the City but operated by the Community Conservation Center (CCC). The SWPPP was prepared in accordance with the requirements of the California State Water Resources Control Board (State Board), National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Industrial Activities dated April 1, 2014 (General Permit or 2014-0057-DWQ).

This SWPPP set forth specific practices, procedures, monitoring, and reporting that are the responsibility of designated Facility personnel to implement.

A.1 PLAN OBJECTIVES

This SWPPP is designed to:

- Identify and evaluate sources of pollutants associated with industrial activities that may affect the quality of storm water discharges and authorized non-storm water discharges (NSWDs) from the Facility;
- Identify and describe the minimum Best Management Practices (BMPs) (General Permit Section X.H.1) and any advanced BMPs (Section X.H.2) implemented to reduce or prevent pollutants in industrial storm water discharges and authorized NSWDs; and
- Identify and describe conditions or circumstances which may require future revisions to this SWPPP.

The SWPPP provides Facility staff with guidance for achieving the stated objectives and maintaining compliance with the requirements of the General Permit. A copy of this SWPPP is maintained at the Facility.

A.2 REGULATORY BACKGROUND

The United States Environmental Protection Agency (U.S. EPA) developed the storm water regulatory program through the authority of the Clean Water Act amendments of 1987. The U.S. EPA's goal was to reduce discharges of contaminated storm water from industrial facilities. The U.S. EPA, through the NPDES permitting program, regulates discharges of potentially contaminated wastewater and storm water into Waters of the United States. California has been delegated NPDES general permitting authority by the U.S. EPA. On April 1, 2014, the State Water Resources Control Board (SWRCB) adopted Order 2014-0057-DWQ. This General Permit became effective on July 1, 2015. This SWPPP was written pursuant to the requirements set forth in Order 2014-0057-DWQ, Exhibit A. Exhibit A is excluded from the Storm Water Multiple Application and Report Tracking System (SMARTS) submittal pursuant to the State Board's request.

A.3 EXISTING FACILITY PLANS AND PLAN COMPLIANCE MODIFICATIONS (GENERAL PERMIT SECTION X.D.2)

This SWPPP will be amended and revised as needed. SWPPP revisions will be completed when:

- BMPs require significant changes;
- There is a physical or operational change at the Facility which may affect storm water discharges;
- Otherwise deemed necessary by the Pollution Prevention Team members based on visual observations (General Permit XI.A.3);
- Upon entering Level 1 or Level 2 status (General Permit XII.1.C);
- Additional pollutant source is identified;
- Modification is made to the Monitoring Implementation Plan (MIP);
- Change is needed to prevent Numeric Action Level (NAL) exceedances;
- Annual Comprehensive Facility Compliance Evaluation (ACFCE) identifies necessary changes;
- Modifications required to be consistent with applicable municipal, state, and federal requirements pertaining to the General Permit;
- Directed to do so by the Regional Water Quality Control Board (RWQCB); and
- There are changes to alternative discharge location identification (General Permit XI.C.3.b), Representative Sampling Reduction justifications (General Permit XI.C.4.c), or Qualified Combined Samples justification (General Permit XI.C.5.c).

Significant SWPPP Revisions are required to be certified and submitted via SMARTS within 30 days of the significant revision. Other revisions (other than typographical errors) are required to be submitted within three (3) months. The pollution prevention team will assess what is significant. If no changes are made to the SWPPP, there are no resubmittal requirements. A revision sheet has been provided to track revisions made within this SWPPP.

Per Section XV of the General permit, the Discharger shall revise the SWPPP, as appropriate, and implement the revisions within 90 days of the Annual Evaluation.

A.4 PLAN AVAILABILITY AND RECORDS RETENTION (GENERAL PERMIT SECTION XXI.J AND SECTION XXI.H)

Paper or electronic records of documents required by this SWPPP will be retained for a minimum of five (5) years from the date generated or date submitted, whichever is later, for the following items:

- Employee Training Records;
- BMP Implementation Records;
- Spill and Clean-up Related Records;
- Records of Monitoring Information;
- Records of Visual Observations;
- Response to the observations including identification of SWPPP revisions, if needed;
- Level 1 Exceedance Response Action (ERA) Reports;
- Level 2 ERA Action Plan;
- Level 2 ERA Technical Report; and
- Annual Reports from SMARTS (checklist and any explanations).

Upon request by the relevant agency, the Facility will provide information to determine compliance with this General Permit to the SWRCB, RWQCB, U.S. EPA, or local Municipal Separate Storm Sewer System (MS4) within a reasonable amount of time. The Facility will furnish, upon request by the relevant agency, copies of records that are required to be kept by this General Permit. In addition, the electronic version of the SWPPP will be uploaded to SMARTS.

A.5 PERMIT REGISTRATION DOCUMENTS & SIGNED CERTIFICATION (GENERAL PERMIT SECTION II.A)

Permit Registration Documents (PRDs) are to be submitted through the Storm Water Multiple Application and Report Tracking System (SMARTS) by the Legally Responsible Person (LRP), or authorized personnel (i.e., Duly Authorized Representative) under the direction of the LRP. PRDs include:

1. Notice of Intent (NOI);
2. Signed Certification Statement (LRP Certification is provided electronically with SMARTS PRD submittal);
3. Site Map(s);
4. SWPPP; and
5. Annual Fee.

The individual designated as the LRP and other authorized personnel are identified in Section A. SMARTS submittal documentation, including a copy of NOI and Signed Certification Statement, is attached in PRDs, Appendix A of this SWPPP. The Facility Site Maps are included as Figures 1, 2 and 3.

A.6 TEMPORARY SUSPENSION OF ACTIVITIES (GENERAL PERMIT SECTION X.H.3)

The General Permit includes a provision for facilities that temporarily suspend industrial activities for ten (10) or more consecutive calendar days during a reporting year. In the event the Facility's operations are temporarily suspended, the SWPPP will be revised to include stabilization BMPs within Section J. In addition, the date the Facility is fully stabilized and projected start date will be documented. If monitoring is infeasible, justification for not monitoring will be provided. The revised SWPPP will be uploaded via SMARTS within seven calendar days prior to suspension of activities.

B. POLLUTION PREVENTION TEAM (GENERAL PERMIT SECTION X.D.1)

The LRP, Duly Authorized Representative (DAR), and Pollution Prevention Team designated for this Facility are summarized below. In the event a regularly assigned Pollution Prevention Team member is temporarily unavailable, a new member will be assigned the role by the DAR. Team members are cross-trained to assist with various activities, as necessary, to implement this SWPPP in the event staff become unavailable due to vacation, illness, or other reasons.

The procedures to identify alternate team members to implement the SWPPP and conduct required monitoring when the regularly assigned team members are temporarily unavailable are listed below.

Transfer Station, Ecology Center and CCC SWPPP BMP staff are all trained. In the event one person is not available, other trained staff are available to perform the duties. Only trained staff implement the SWPPP.

Monitoring, sampling, reporting and General Permit administrative tasks are contracted out to consulting firms. These consulting firms have personnel that are available to implement the General Permit for the City.

The Facility training program is detailed in Section G of this SWPPP.

B.1. LEGALLY RESPONSIBLE PERSON (LRP)

Name	Title
Leticia Jauregui	Zero Waste Manager

B.2 DULY AUTHORIZED REPRESENTATIVE

Name	Title
Leticia Jauregui	Zero Waste Manager

B.3 STORM WATER POLLUTION PREVENTION TEAM PERSONNEL

Name	Title	Responsibilities and Duties
Leticia Jauregui	Zero Waste Manager	Overall management of all operations
Robert Hernandez	Environmental Compliance Specialist	Compliance, Annual Reporting, SWPPP development, training, paperwork, delegation of SWPPP implementation duties, and record keeping.
Heidi Obermeit	Recycling Manager	Oversees management of recycling activities and contracts
Dave Johnson	CCC Manager	Oversight of storm water program and implementation, delegation of BMP implementation duties, and training.
Daniel Maher, Debbie Beya	Ecology Center Recycling Manger Deputy Director	Oversight of storm water program and implementation, delegation of BMP implementation duties, and training.
Jim Honniball, Anika Narula	Consultants, WSP Environment & Infrastructure, Inc. USA	Sampling, monitoring, assessments, consulting services, and overall IGP compliance.
Joy Brown	Operations Manager	Coordination of project contracts and subcontractors

A Qualified Industrial SWPPP Practitioner (QISP) is required if the Facility changes from baseline status to Level 1 or Level 2. This SWPPP will be updated upon entering Level 1 or Level 2.

C. FACILITY INFORMATION

The Facility information is described in the sections below.

C.1 FACILITY INFORMATION

Facility Name:	City of Berkeley Transfer Station & Recycling Center
Street Address:	1201 Second Street & 669 Gilman Street
Telephone Number:	510-981-2489
WDID Number:	2011009237
Facility Contact Name:	David Peery
Contact Title:	Occupational Health and Safety Officer
Latitude/Longitude:	37.87978/-122.30588
Total Facility Area (Acres):	7.1
Total % Site Imperviousness (Acres):	100
Total Area of Industrial Activities and/or Materials Exposed to Precipitation (Acres):	7.1
Primary SIC Code(s):	5093, 4212
Receiving Water:	Central San Francisco Bay
Hours of Operation:	The Transfer Station facility is open to the Public Monday through Saturday 8:00 a.m. – 4:30 p.m. The Recycling Center facility is open to the Public Monday through Sunday 8:30 – 4:00 p.m.

C.2 FACILITY DESCRIPTION

The facility consists of two operations: the Transfer Station in the northern and central portion and the Recycling Center in the southern portion of the site.

The Transfer Station encompasses 5.0 acres and is operated by the City of Berkeley. Facilities on this portion of the site include the Administration Building, Transfer Station/Tipping Floor, Equipment Maintenance Building, Used Oil Depot, Scale House, Diesel Fueling Station, Wash Rack, Container Maintenance Building, Container/Bin Storage Areas, Hazardous Waste Storage Area, Green Waste Receiving Area, General/Electronic Waste Storage, and Parking. There is a Natural Gas Fueling Station adjacent to the Facility that is not part of Transfer Station industrial processes.

The Transfer Station is owned and operated by the City to accept municipal, commercial and private solid waste and transfer it to a sanitary landfill. The Transfer Station does not accept hazardous waste or infectious materials. It accepts scrap metals, construction debris, refrigerated appliances, electronic waste, mattresses and box springs, used tires, propane cylinders, and green waste.

Equipment is fueled on site at the diesel fueling station. Equipment is repaired on site in either the Equipment Maintenance Building or the Container Maintenance Building. Equipment, vehicles, and refuse bins are cleaned at the wash rack.

The Recycling Center borders the Transfer Station to the south and encompasses 2.1 acres. This portion of the site includes the Community Conservation Center (CCC) and Ecology offices, parking, Paper and Glass Recycling Warehouses, Glass Sorting Area, Comingled Container Storage, Universal Waste Storage, Customer Recyclable Area, Recyclable Buyback Area, Ecology Administrative Shed, and Parking.

The Recycling Center is owned by the City and currently operated by the CCC. The Recycling Center accepts recyclable materials from the pickup of recyclables by the Ecology Center and from the general public. Minor equipment maintenance is performed on site and fueling takes place at the Transfer Station.

C.3 SITE STORM WATER DRAINAGE

The site is located in the Gilman Street watershed, which is a highly urban and industrial section of the City. Site drainage is conveyed through the City storm drain system (south on 2nd Street and west on Gilman Street) and drains into the San Francisco Bay at the Gilman Street outfall.

The site encompasses 7.1 acres of land that slopes towards the Bay. Approximately 98 percent of the site is paved with asphalt or concrete, buildings or other structural facilities.

The majority of storm water runoff from the Transfer Station flows into trench drains (TD-1, TD-2 and TD-2A) and stormwater catch basins (CB-1, CB-2, CB-3, andCB-3A) which drain to stormwater treatment vaults. Catch basins CB-3 and CB-3A drains into the same treatment vault. These treatment vaults treat the majority of the storm water on site and the discharge points are DP-1A, DP-2A and DP-3A. DP-1A receives stormwater from the northern end of the

Transfer Station (Catchment Area A). DP-2A and DP-3A receives stormwater primarily from the central area of the Transfer Station (Catchment Area C).

Flow from Catchment Area B is routed into trench drains in front of the Construction Debris receiving area (TD-3) and another trench drain (TD-4) near the General/Electronic Waste Storage Area that delineates Catchment Areas A and B (Figure 2). Stormwater collected from the two trench drains are routed to a 21,000 gallon above ground stormwater holding tank for discharge into East Bay Municipal Utility District (EBMUD) sanitary sewer during dry days under permit.

Discharge point DP-4 receives stormwater from Catchment Area D and drains an area of the site comprised of employee parking, container bin storage and truck parking offsite from a driveway into the City's storm drain network (Figure 2).

The Recycling Center resides in Catchment Area E and F. There is one active catch basin (DP-8A) on the Recycling Center that drains directly to the City's MS4 system. The remaining of the Recycling Center site stormwater drains offsite from driveways into the City's storm drain network. These discharge points are DP- 5A, DP-6, DP-7 that discharge to Second Street and DP-9 that discharges to Gillman Street.

The Recycling Center has installed Valley Trenches in front to the Glass Sorting and Container Storage areas. These trench drains collect stormwater from source areas for temporary storage in two 4,000 gallon tanks and discharge into EBMUD sanitary sewer during dry days. These trench drains will reduce surface flow to Second and Gilman Streets discharge points.

Additionally, a berm and canopy structure has been installed in the vicinity of the Customer Recyclable Area and near the Ecology Offices and Storage Shed. Surface flow between these berms will be directed toward DP-5A. The berm at the Customer Recyclable Area will also prevent stormwater run-on from the central area of the Recycling Center. The canopy structure will also minimize rain contact with recyclable materials.

The site layout and discharge points are depicted on Figure 2.

C.4 NEIGHBORING OPERATIONS AND STORM WATER RUN-ON

C.4.1 Describe Neighboring Operations

North: To the north of the Facility is Codornices Creek. If the creek floods there is the possibility of run-on from this area DP-1A.

South: To the south of the Facility is Gilman Street. There is no potential run-on from this area.

East: To the east of the Facility are railroad tracks. There is no potential run-on from this area.

West: To the west of the Facility is Second Street. There is no run-on from this area unless the Codornices Creek floods the street.

C.4.2 Run-on

There is a potential for run-on to contribute flow to DP-1A from Codornices creek to the north and west which may influence storm water quality at DP-1A. Codornices creek is known to flood the northern area during large and back-to-back rain events.

D. REQUIRED SITE MAPS(S) INFORMATION (GENERAL PERMIT SECTION X.E)

The Facility's Site Maps are included within this SWPPP as Figures 1 and 2.

Included on Site Map(s)? Yes/No/NA	SWPPP Site Map Requirements
Yes	The Facility boundary (Section X.E.3.a)
Yes	Storm water drainage areas within the Facility boundary (Section X.E.3.a)
NA	Portions of any drainage area impacted by discharges from surrounding areas
Yes	Flow direction of each drainage area (Section X.E.3.a)
NA	On-Facility surface water bodies (Section X.E.3.a)
NA	Areas of soil erosion (Section X.E.3.a)
Yes	Location(s) of nearby water bodies such as rivers, lakes, wetlands (Section X.E.3.a)
Yes	Location(s) of municipal storm drain inlets that may receive the Facility's industrial storm water discharges and authorized NSWDs (Section X.E.3.a)
Yes	Locations of storm water collection and conveyance systems and associated points of discharge, sample locations, and direction of flow (Section X.E.3.b)
Yes	Any structural control measures (that affect industrial storm water discharges, authorized NSWDs, and run-on) (Section X.E.3.c)
Yes	All impervious areas of the Facility, including paved areas, buildings, covered storage areas, or other roofed structures (Section X.E.3.d)
Yes	Locations where materials are directly exposed to precipitation (Section X.E.3.e)
NA	Locations where significant spills or leaks (Section X.G.1.d of the General Permit) have occurred (Section X.E.3.e)

Included on Site Map(s)? Yes/No/NA	SWPPP Site Map Requirements
Yes	Areas of industrial activity subject to the General Permit (Section X.E.3.f)
Yes	All storage areas and storage tanks (Section X.E.3.f)
Yes	Shipping and receiving areas (Section X.E.3.f)
Yes	Fueling areas (Section X.E.3.f)
Yes	Vehicle and equipment storage/maintenance areas (Section X.E.3.f)
Yes	Material handling and processing areas (Section X.E.3.f)
Yes	Waste treatment and disposal areas (Section X.E.3.f)
Yes	Dust or particulate generating areas (Section X.E.3.f)
Yes	Cleaning and material reuse areas (Section X.E.3.f)
Yes	Any other areas of industrial activity which may have potential pollutant sources (Section X.E.3.f)

E. LIST OF INDUSTRIAL MATERIALS (GENERAL PERMIT SECTION X.F)

Presented below is a list of industrial materials that are handled and stored at the Facility. Industrial materials include raw materials, intermediate products, final or finished products, recycled materials, and waste or disposed materials.

Material	Physical Characteristics	Storage Location(s); Typical Quantity Stored; and Typical Frequency of Storage	Receiving Location(s); Typical Quantity Received; and Typical Frequency of Receiving	Shipping Location(s); Typical Quantity Shipped; and Typical Frequency of Shipping	Handling Location(s); Typical Quantity Handled; and Typical Frequency of Handling
Ethylene Glycol (anti-freeze)	Liquid	Site Map Locations: Equipment Maintenance / Ecology Storage Shed Typical Quantity: Approximately 100 gallons / 30 gallons based on demand Typical Frequency of Storage: Annually	Receiving Location(s): Equipment Maintenance / Ecology Storage Shed Typical Quantity Received: 100 gallons / 5 gallons Typical Frequency of Receiving: Quarterly	Shipping Location(s): Equipment Maintenance Typical Quantity Shipped: 55-75 gallons Typical Frequency of Shipping: Quarterly	Handling Location(s): Equipment Maintenance / Ecology Storage Shed Typical Quantity Handled: 10-15 gallons Typical Frequency of Handling: Daily
Motor Oil	Liquid	Site Map Locations: Equipment Maintenance / Ecology Storage Shed Typical Quantity: Approximately 240 gallons / 30 gallons based on demand Typical Frequency of Storage: Annually	Receiving Location(s): Equipment Maintenance / Ecology Storage Shed Typical Quantity Received: 100 gallons / 10 gallons Typical Frequency of Receiving: Weekly	N/A – See Used Oil for Shipping information.	Handling Location(s): Equipment Maintenance / Ecology Storage Shed Typical Quantity Handled: 10 gallons Typical Frequency of Handling: Daily
Lead Acid Batteries	Solid	Site Map Locations: Equipment Maintenance Typical Quantity: Approximately 400 pounds based on demand Typical Frequency of Storage: Annually	Receiving Location(s): Equipment Maintenance Typical Quantity Received: 250 pounds Typical Frequency of Receiving: Monthly	Shipping Location(s): Equipment Maintenance Typical Quantity Shipped: 250 pounds Typical Frequency of Shipping: Monthly	Handling Location(s): Equipment Maintenance Typical Quantity Handled: 25 pounds Typical Frequency of Handling: Daily
Hydraulic Fluid	Liquid	Site Map Locations: Equipment Maintenance Typical Quantity: Approximately 250 gallons based on demand Typical Frequency of Storage: Annually	Receiving Location(s): Equipment Maintenance Typical Quantity Received: 75-100 gallons Typical Frequency of Receiving: Weekly	N/A	Handling Location(s): Equipment Maintenance Typical Quantity Handled: 10-15 gallons Typical Frequency of Handling: Daily
Grease	Semi-Solid	Site Map Locations: Equipment Maintenance Typical Quantity: Approximately 55 gallons (400 lbs) based on demand Typical Frequency of Storage: Annually	Receiving Location(s): Equipment Maintenance Typical Quantity Received: 55 gallons (400 lb) Typical Frequency of Receiving: Quarterly	N/A	Handling Location(s): Equipment Maintenance Typical Quantity Handled: 3-5 lbs Typical Frequency of Handling: Daily
Transmission Fluid	Liquid	Site Map Locations: Equipment Maintenance Typical Quantity: Approximately 400 gallons based on demand Typical Frequency of Storage: Annually	Receiving Location(s): Equipment Maintenance Typical Quantity Received: 50 gallons Typical Frequency of Receiving: Weekly	N/A	Handling Location(s): Equipment Maintenance Typical Quantity Handled: 5-10 gallons Typical Frequency of Handling: Daily
Assorted Flammables	Liquid, Semi-Solid	Site Map Locations: Equipment Maintenance Typical Quantity: Approximately 100 gallons based on demand Typical Frequency of Storage: Annually	Receiving Location(s): Equipment Maintenance Typical Quantity Received: 5 gallons Typical Frequency of Receiving: Quarterly	N/A	Handling Location(s): Equipment Maintenance Typical Quantity Handled: .5 gallons Typical Frequency of Handling: Daily
Used Oil	Liquid	Site Map Locations: Equipment Maintenance, Used Oil Depot Typical Quantity: Approximately 1300 gallons based on demand Typical Frequency of Storage: Annually	N/A – Used oil is generated in the shop.	Shipping Location(s): Equipment Maintenance, Used Oil Depot Typical Quantity Shipped: 250 gallons, 600 gallons Typical Frequency of Shipping: every 6-8 weeks.	Handling Location(s): Equipment Maintenance, Used Oil Depot Typical Quantity Handled: 5 gallons Typical Frequency of Handling: Daily
Used Oil Filters	Solid	Site Map Locations: Equipment Maintenance, Used Oil Depot Typical Quantity: Approximately 3 – 55 gallon drums based on demand Typical Frequency of Storage: Annually	Receiving Location(s): Used Oil Depot Typical Quantity Received: 5-10 filters Typical Frequency of Receiving: Daily	Shipping Location(s): Equipment Maintenance, Used Oil Depot Typical Quantity Shipped: 2-5 – 55 gallon drums Typical Frequency of Shipping: Quarterly	Handling Location(s): Equipment Maintenance, Used Oil Depot Typical Quantity Handled: 10-20 filters Typical Frequency of Handling: Daily
Sodium Metasilicate Cleaner (biodegradable)	Liquid	Site Map Locations: Wash Rack Typical Quantity: Approximately 100 gallons based on demand Typical Frequency of Storage: Annually	Receiving Location(s): Wash Rack Typical Quantity Received: 25 gallons Typical Frequency of Receiving: Quarterly	N/A	Handling Location(s): Wash Rack Typical Quantity Handled: 1 gallon (mixed with water) Typical Frequency of Handling: Daily

Material	Physical Characteristics	Storage Location(s); Typical Quantity Stored; and Typical Frequency of Storage	Receiving Location(s); Typical Quantity Received; and Typical Frequency of Receiving	Shipping Location(s); Typical Quantity Shipped; and Typical Frequency of Shipping	Handling Location(s); Typical Quantity Handled; and Typical Frequency of Handling
Diesel	Liquid	Site Map Locations: Underground Storage Tanks Typical Quantity: Approximately 18,000 gallons based on demand Typical Frequency of Storage: Annually	Receiving Location(s): Underground Storage Tanks Typical Quantity Received: 8-10,000 gallons Typical Frequency of Receiving: Weekly	N/A	Handling Location(s): Fuel Island Typical Quantity Handled: 100 – 1000 gallons Typical Frequency of Handling: Daily
Absorbent/Absorbent Pads	Solid, Powder	Site Map Locations: Equipment Maintenance Typical Quantity: Approximately 400 pounds based on demand Typical Frequency of Storage: Annually	Receiving Location(s): Equipment Maintenance Typical Quantity Received: 200 pounds Typical Frequency of Receiving: Quarterly	N/A	Handling Location(s): Equipment Maintenance Typical Quantity Handled: 40 pounds Typical Frequency of Handling: Weekly or as needed
Municipal Waste and Construction Debris	Solid, Non-Solid, Powder	Site Map Locations: Transfer Station Tipping Floor and Outdoor Construction Debris Receiving Area Typical Quantity: Approximately 400,000 pounds based on demand Typical Frequency of Storage: Annually	Receiving Location(s): Transfer Station Tipping Floor and Outdoor Construction Debris Receiving Area Typical Quantity Received: 50 to 12,000 pounds depending on customer Typical Frequency of Receiving: Daily (except Sunday	Shipping Location(s): Tipping Floor Truck Loading Area and Outdoor Construction Debris Receiving Area Typical Quantity Shipped: 80,000 pounds Typical Frequency of Shipping: Daily (except Sunday)	Handling Location(s): Transfer Station Tipping Floor and Outdoor Construction Debris Receiving Area Typical Quantity Handled: 1,000 pounds Typical Frequency of Handling: Daily (except Sundays)
Green Waste	Solid, Non-Solid	Site Map Locations: Transfer Station Tipping Floor Typical Quantity: Approximately 19,000 pounds based on demand Typical Frequency of Storage: Annually	Receiving Location(s): Transfer Station Tipping Floor Typical Quantity Received: 50 to 12,000 pounds depending on customer Typical Frequency of Receiving: Daily (except Sunday	Shipping Location(s): Green Waste Truck Loading Area Typical Quantity Shipped: 80,000 pounds Typical Frequency of Shipping: Daily (except Sunday	Handling Location(s): Green Waste Typical Quantity Handled: 1,000 pounds Typical Frequency of Handling: Daily (except Sunday
Universal and Electronic/General Waste	Solid	Site Map Locations: Universal Waste Storage (Recycling Center), Electronic/General Waste (Transfer Station) Typical Quantity: Varies based on customer deliveries Typical Frequency of Storage: Annually	Receiving Location(s): Universal Waste Storage (Recycling Center), Electronic/General Waste (Transfer Station) Typical Quantity Received: Varies based on customer deliveries Typical Frequency of Receiving: Varies	Shipping Location(s): Universal Waste Storage (Recycling Center), Electronic/General Waste (Transfer Station) Typical Quantity Shipped: varies Typical Frequency of Shipping: Weekly or as needed	Handling Location(s): Universal Waste Storage (Recycling Center), Electronic/General Waste (Transfer Station) Typical Quantity Handled: Varies Typical Frequency of Handling: Weekly or as needed
Bed Mattresses	Solid	Site Map Locations: Mattress Area (Transfer Station) Typical Quantity: Varies based on customer deliveries Typical Frequency of Storage: Annually	Receiving Location(s): Mattress Area (Transfer Station) Typical Quantity Received: Varies based on customer deliveries Typical Frequency of Receiving: Varies	Shipping Location(s): Mattress Area (Transfer Station) Typical Quantity Shipped: varies Typical Frequency of Shipping: Weekly or as needed	Handling Location(s): Mattress Area (Transfer Station) Typical Quantity Handled: Varies Typical Frequency of Handling: Weekly or as needed
Plastic Containers	Solid	Site Map Locations: Recycling Center Plastic Storage Bins Typical Quantity: Approximately 86 tons based on demand Typical Frequency of Storage: Annually	Receiving Location(s): Recycling Center Plastic Storage Bins Typical Quantity Received: Approximately 86 tons based on demand Typical Frequency of Receiving: Varies	Shipping Location(s): Recycling Center Plastic Storage Bins Typical Quantity Shipped: Approximately 86 tons based on demand Typical Frequency of Shipping: Weekly or as needed	Handling Location(s): Recycling Center Plastic Storage Bins Typical Quantity Handled: Approximately 86 tons based on demand Typical Frequency of Handling: Weekly or as needed
Glass Bottles and Containers (clear, green, brown, and mixed glass)	Solid	Site Map Locations: Recycling Center Glass Storage Bins Typical Quantity: Approximately 299 tons based on demand Typical Frequency of Storage: Annually	Receiving Location(s): Recycling Center Glass Storage Bins Typical Quantity Received: Approximately 299 tons based on demand Typical Frequency of Receiving: Varies	Shipping Location(s): Recycling Center Glass Storage Bins Typical Quantity Shipped: Approximately 299 tons based on demand Typical Frequency of Shipping: Weekly or as needed	Handling Location(s): Recycling Center Glass Storage Bins Typical Quantity Handled: Approximately 299 tons based on demand Typical Frequency of Handling: Weekly or as needed

Material	Physical Characteristics	Storage Location(s); Typical Quantity Stored; and Typical Frequency of Storage	Receiving Location(s); Typical Quantity Received; and Typical Frequency of Receiving	Shipping Location(s); Typical Quantity Shipped; and Typical Frequency of Shipping	Handling Location(s); Typical Quantity Handled; and Typical Frequency of Handling
Non-Ferrous Metal (Tin Cans and Scrap Aluminum and Metal)	Solid	Site Map Locations: Recycling Center Aluminum/Tin Can Storage Typical Quantity: Approximately 58 tons based on demand Typical Frequency of Storage: Annually	Receiving Location(s): Recycling Center Aluminum/Tin Can Storage Typical Quantity Received: Approximately 58 tons based on demand Typical Frequency of Receiving: Varies	Shipping Location(s): Recycling Center Aluminum/Tin Can Storage Typical Quantity Shipped: Approximately 58 tons based on demand Typical Frequency of Shipping: Weekly or as needed	Handling Location(s): Recycling Center Aluminum/Tin Can Storage Typical Quantity Handled: Approximately 58 tons based on demand Typical Frequency of Handling: Weekly or as needed
Paper	Non Solid	Site Map Locations: Recycling Center - Paper Recycling Area Typical Quantity: Approximately 760 tons based on demand Typical Frequency of Storage: Annually	Receiving Location(s): Recycling Center - Paper Recycling Area Typical Quantity Received: Approximately 760 tons based on demand Typical Frequency of Receiving: Varies	Shipping Location(s): Recycling Center - Paper Recycling Area Typical Quantity Shipped: Approximately 760 tons based on demand Typical Frequency of Shipping: Weekly or as needed	Handling Location(s): Recycling Center - Paper Recycling Area Typical Quantity Handled: Approximately 760 tons based on demand Typical Frequency of Handling: Weekly or as needed

F. POTENTIAL POLLUTANT SOURCES AND ASSESSMENT (GENERAL PERMIT SECITON X.G)

This section presents descriptions of the industrial potential pollutant sources at the Facility. The pollutants likely to be present in industrial storm water discharge from these areas are included below.

F.1 INDUSTRIAL PROCESSES (GENERAL PERMIT SECTION X.G.1.A)

Presented below are descriptions of the Facility's industrial processes that have the potential for exposure to storm water discharges.

1. *Location*: Equipment Maintenance Building

   Description of the Industrial Process: Equipment maintenance of trucks and vehicles.

   Description of the type, characteristics, and quantity of industrial materials used in or resulting from the process: Types of significant materials used in the Equipment Maintenance Building include liquids such as oil, solvents, antifreeze, grease, and waste oil. Used waste oil, solvents, antifreeze, and greases are accumulated until they are transported for proper recycling and/or disposal. Quantities are listed in Section E.

   Description of the manufacturing, cleaning, maintenance, recycling, disposal or other activities related to the process: Equipment maintenance is performed inside when feasible. Materials identified above are accumulated until they are transported for recycling or disposal. Spills are promptly cleaned up with absorbent materials. The Transfer Station will either store under cover or remove from the Transfer Station all abandoned or broken equipment or materials no longer considered for future use that have the potential to serve as the source for pollutant loading.

   If applicable, describe the areas protected by containment structures and the corresponding containment capacity: All above ground tanks are double walled and located indoors.

2. *Location*: Diesel Fueling Station

   Description of the Industrial Process: Diesel Fueling of vehicles, buses and trucks.

   Description of the type, characteristics, and quantity of industrial materials used in or resulting from the process: Diesel fuel is delivered weekly to the underground storage tanks, and vehicles fill up daily from the dispensers. Quantities are listed in Section E.

   Description of the manufacturing, cleaning, maintenance, recycling, disposal or other activities related to the process: Diesel is added to the tanks weekly by a tanker truck.

   If applicable, describe the areas protected by containment structures and the corresponding containment capacity: Not Applicable.

3. *Location*: Wash Rack

   Description of the Industrial Process: Cleaning vehicles and containers with pressure washers.

   Description of the type, characteristics, and quantity of industrial materials used in or resulting from the process: Biodegradable soap is used for washing the exterior and interior of roll off bins, containers, garbage trucks, street sweepers and other vehicles.

   Description of the manufacturing, cleaning, maintenance, recycling, disposal or other activities related to the process: The standard operating procedure for cleaning the wash rack area is power spraying water into the grated manhole. Wash water is filtered through a containment vault and contained on the wash pad. Accumulated debris is shoveled into trash bins.

   If applicable, describe the areas protected by containment structures and the corresponding containment capacity: The wash rack is walled in both sides and is graded and bermed to divert flow to a drain. The gate valve is always closed to the storm and open to the sanitary conveyance system. Due to confined space safety concerns, staff no longer enter the manhole to operate the gate valve. Instead, a spill cover is used to cover the manhole during rain events. Water from the wash rack flows to a media filter treatment vault that discharges to the sanitary drain. No washing occurs during storm events.

4. *Location*: Used Oil Depot

   Description of the Industrial Process: Public customers bring used oil to the used oil area for recycling.

   Description of the type, characteristics, and quantity of industrial materials used in or resulting from the process: Used oil in usually 5 gallons or smaller quantities are added by customers to the above ground tank.

   Description of the manufacturing, cleaning, maintenance, recycling, disposal or other activities related to the process: Not applicable.

   If applicable, describe the areas protected by containment structures and the corresponding containment capacity: The above ground tank is double walled and stored within a concrete containment area with a roof over the entire area. There are spill pallets as well to contain any drips or spills from customers.

5. *Location*: Hazardous Waste Storage

   Description of the Industrial Process: Public customers bring used paints, solvents, flammables, combustibles, cooking grease, and batteries for recycling.

   Description of the type, characteristics, and quantity of industrial materials used in or resulting from the process: Materials characteristics are mostly liquid but also include gas cylinders.

Description of the manufacturing, cleaning, maintenance, recycling, disposal or other activities related to the process: Materials are stored until they are recycled by outside vendor.

If applicable, describe the areas protected by containment structures and the corresponding containment capacity: Materials stored in 55-gallon drums with secondary containment, under cover or in hazardous materials shed.

6. *Location*: Transfer Station /Tipping Floor and Vactor Truck Wash Area

   Description of the Industrial Process: Customers and City vehicles dump municipal refuse where it is mixed by a front loader and pushed into long haul trucks for final disposal at the Altamont Landfill. Materials dumped are visually inspected by personnel for hazardous or unauthorized materials and returned to the customer when possible.

   The green waste area receives food waste and yard waste from municipal customers. Food waste may have some liquid runoff which is mixed in with the dry green waste by the loader, or the runoff will be contained by a floor drain within the roofed Transfer Station that is connected to the sanitary sewer.

   Storm drain and sewer cleanout material is emptied and clean within the vactor truck wash area. The area is bermed and connected to sanitary sewer.

   Description of the type, characteristics, and quantity of industrial materials used in or resulting from the process: As stated previously material is municipal and green waste. Quantities based on the frequency of waste hauled to the Transfer Station. Quantities are listed in Section E.

   Description of the manufacturing, cleaning, maintenance, recycling, disposal or other activities related to the process: Municipal waste is disposed at a landfill. Green waste is hauled off-site and recycled into compost.

   If applicable, describe the areas protected by containment structures and the corresponding containment capacity: Tipping floor activities occur under a large covered shed.

7. *Location*: Outdoor Construction Debris Receiving Area

   Description of the Industrial Process: The construction debris area receives debris from municipal customers. It is mixed by a front loader and pushed into long haul trucks for transport to City contracted recycling facility. Materials dumped are visually inspected by personnel for hazardous or unauthorized materials and returned to the customer when possible.

   Description of the type, characteristics, and quantity of industrial materials used in or resulting from the process: As stated previously material is construction debris. Quantities based on the frequency of construction debris hauled to the Transfer Station. Estimated quantities are listed in Section E.

Description of the manufacturing, cleaning, maintenance, recycling, disposal or other activities related to the process: Construction debris is disposed at a landfill or recycled.

If applicable, describe the areas protected by containment structures and the corresponding containment capacity: The area is protected by a trench drain TD-4. Water from TD-4 flows into manhole containing the two sluice gates, one for sanitary (EBMUD) and stormwater conveyance systems. The sluice gates are manually operated and closed to sanitary. Water generated from the construction debris receiving area flows into the trench drain, the manhole, then a junction manhole with a 6-inch pipe cap, containing a two-inch orifice that allows water to flow into the stormwater holding tank. The manholes, filter fabric at TD-4, and trench drain are inspected on an as needed bases to remove excessive sediment.

To simplify operations, the gate valve is directed to storm drain. In this mode of operation, stormwater or dust control water would flow into the trench drain and into a 21,000 gallon above ground storage tank. Water from the tank would be discharge into EBMUD sanitary sewer during dry days under permit. Additionally, a trench drain collects stormwater or dust control water from Catchment Area B and routed to the same 21,000 gallon holding tank.

8. *Location*: Universal Waste and General / Electronic Waste Storage Container

   Description of the Industrial Process: Universal Waste is brought by the Public to the Recycling Center for recycling by a vendor. It is stored to prevent breakage, but sometimes materials are already delivered damaged. These are stored in a cardboard box or bins. Personnel assist the public to prevent breakage. Electronic/General Waste is brought in by customers at the Transfer Station and temporarily stored inside a 20' container.

   Description of the type, characteristics, and quantity of industrial materials used in or resulting from the process: Universal waste consists of batteries and lamps. Electronic and Universal Waste include televisions, stereo equipment, computers, tires, mattresses, refrigerators and other appliances. Estimated quantities are listed in Section E.

   Description of the manufacturing, cleaning, maintenance, recycling, disposal or other activities related to the process: Universal waste is hauled off-site for recycling.

   If applicable, describe the areas protected by containment structures and the corresponding containment capacity: Materials stored in cardboard box or bins within the 20' container.

9. *Location*: Container / Bin Storage Area/Container Maintenance Building/Truck Parking

   Description of the Industrial Process: The replacement containers for recycling and municipal waste, debris boxes and roll off containers are stored and occasional truck parking.

   Description of the type, characteristics, and quantity of industrial materials used in or resulting from the process: Plastic garbage bins, debris boxes and large roll off

containers are stored in the northern end and near the Administration Building of the Transfer Station. Additionally, truck parking is located adjacent to the employee parking area.

Description of the manufacturing, cleaning, maintenance, recycling, disposal or other activities related to the process: Not applicable.

10. *Location*: Mattress Area

    Description of the Industrial Process: Used mattresses are brought in by customers for disposal and stored under canopy until transported offsite for final disposal.

    Description of the type, characteristics, and quantity of industrial materials used in or resulting from the process: Bed mattresses composing of cloth, wood and springs and cushioning.

    Description of the manufacturing, cleaning, maintenance, recycling, disposal or other activities related to the process: Not applicable.

11. *Location*: Recycling Center – Recycling Comingled Container Storage

    Description of the Industrial Process: Recycling trucks deliver loads of mixed plastic containers daily to the recycling center container storage area where they are loaded and sorted on conveyor belts. Front-end loaders assist in managing the stockpile.

    Description of the type, characteristics, and quantity of industrial materials used in or resulting from the process: Plastic, containers that previously contained milk, juices, water, etc. Estimated quantities are listed in Section E.

    Description of the manufacturing, cleaning, maintenance, recycling, disposal or other activities related to the process: Material is sorted and recycled by outside vendor. A valley trench in front of the bins contains a sump and pump, to capture stormwater.

    Stormwater is pumped into two 4,000-gallon tanks when the water level activates a float switch in the sump. When the water level in the tanks is too high, floats switches turn off the sump pump to prevent overfill. Collected water is discharged after 24 hours of dry weather into EBMUD sanitary sewer under permit.

12. *Location*: Recycling Center – Customer Recyclable Area

    Description of the Industrial Process: The Public primarily brings plastic, glass, aluminum containers, cans, non-ferrous metal, and appliances for recycling through a buyback program. There are buckets provided for the Public to drain any liquids from their containers before having them loaded onto a conveyor belt for sorting and baling.

    Description of the type, characteristics, and quantity of industrial materials used in or resulting from the process: Plastic, glass bottles, aluminum and can containers that previously contained milk, juices, soft- drinks, beer, wine, liquor, processed foods, etc. Estimated quantities are listed in Section E.

Description of the manufacturing, cleaning, maintenance, recycling, disposal or other activities related to the process: Material is sorted and recycled by outside vendor.

13. *Location*: Recycling Center – Paper Recycling Warehouse

    Description of the Industrial Process: Paper and cardboard for recycling are baled and stored for transfer to another recycler.

    Description of the type, characteristics, and quantity of industrial materials used in or resulting from the process: Paper and cardboard. Estimated quantities are listed in Section E.

    Description of the manufacturing, cleaning, maintenance, recycling, disposal or other activities related to the process: Material is sorted for recycling in a warehouse and recycled by outside vendor.

14. *Location*: Recycling Center – Glass Sorting Area

    Description of the Industrial Process: Glass is processed in the glass recycling warehouse and place on conveyor belts and sorted by color and dropped into bins and stored for transfer to another recycler.

    Description of the type, characteristics, and quantity of industrial materials used in or resulting from the process: Different colored glass (i.e. clear, brown, green, blue). Estimated quantities are listed in Section E.

    Description of the manufacturing, cleaning, maintenance, recycling, disposal or other activities related to the process: Material is sorted for recycling by outside vendor. A valley trench in front of the bins contains a sump and pump, to capture stormwater.

    Stormwater is pumped into two 4,000-gallon tanks when the water level activates a float switch in the sump. When the water level in the tanks is too high, floats switches turn off the sump pump to prevent overfill. Collected water is discharged after 24 hours of dry weather into EBMUD sanitary sewer under permit.

15. *Location*: Ecology Center – Truck Parking Area

    Description of the Industrial Process: The Ecology Centers operates trucks that pickup cans, bottles, newsprint, mixed paper, plastic, and cardboard throughout the City of Berkeley. After pick-up, the trucks deposit the materials at the Recycling Center. Trucks are parked in a designated area with minor maintenance performed by outside contractor Mobile Fleet Care in the Recycling Center. All major truck maintenance are performed offsite.

    Description of the type, characteristics, and quantity of industrial materials used in or resulting from the process: Oil, hydraulic and transmission fluids are changed onsite. Estimated quantities are listed in Section E.

    Description of the manufacturing, cleaning, maintenance, recycling, disposal or other activities related to the process: Used fluids and filters generated from scheduled maintenance are temporarily stored in the cargo bin for scheduled pickup by outside

vendor for proper disposal or removed offsite by Mobile Fleet Care after maintenance work. Large plastic containers are placed under the hydraulic lines of the trucks when parked to contain any leaks. Leaks and or spills are cleaned up immediately and disposed of properly.

F.2 MATERIALS HANDLING AND STORAGE (GENERAL PERMIT SECTION X.G.1.B)

Presented below are descriptions of the Facility's material handling and storage areas that have the potential for exposure to storm water.

1. *Location*: Equipment Maintenance Building

   Description of the type, characteristics, and quantity of materials handled or stored; the shipping, receiving, and loading procedures; and the spill or leak prevention and response procedures: Materials used in the Equipment Maintenance Building include liquids such as oil, solvents, antifreeze, grease, and hydraulic fluid. The approximate quantities of materials handled or stored at the Equipment Maintenance Building are included in Section E. Spills or leaks from equipment such as end loaders and ancillary mobile equipment may occur during material handling. Spill or leak response supplies are located at the Facility. In general, spill response procedures include notifications to the Transfer Station Manager and affected employees; orderly evacuation if applicable; containment of spill; using spill kits (i.e., absorbent materials to cleanup up the spill/leak); and proper disposal of the used absorbent and other cleanup materials. Leak prevention procedures include a preventative maintenance program described in Section G. The Transfer Station will either store under cover or remove from the Transfer Station all abandoned or broken equipment or materials no longer considered for future use that have the potential to serve as the source for pollutant loading. Additional details are also included within the appropriate documents located on-site.

   If applicable, describe the areas protected by containment structures and the corresponding containment capacity: Materials identified above are accumulated in secondary containment until they are transported for recycling or disposal.

   If applicable, describe the areas protected by containment structures and the corresponding containment capacity: Used waste oil, solvents, antifreeze, and greases are accumulated until they are transported for proper recycling and/or disposal.

2. *Location*: Diesel Fueling Station

   Description of the type, characteristics, and quantity of materials handled or stored; the shipping, receiving, and loading procedures; and the spill or leak prevention and response procedures: The material handled at the fueling station is diesel. City vehicles fuel at the area and vendor replenish the underground storage tanks when the fuel is low. Spills and leaks can occur during the fueling process. The approximate quantities of materials handled or stored at the Equipment Maintenance Building are included in Section E.

Spills or leaks from equipment such as end loaders and ancillary mobile equipment may occur during material handling. Spill or leak response supplies are located at the Facility. In general, spill response procedures include notifications to the Transfer Station Manager and affected employees; orderly evacuation if applicable; containment of spill; using spill kits (i.e., absorbent materials to cleanup up the spill/leak); and proper disposal of the used absorbent and other cleanup materials. Leak prevention procedures include a preventative maintenance program described in Section G. Additional details are also included within the appropriate documents located on-site.

If applicable, describe the areas protected by containment structures and the corresponding containment capacity: Not applicable.

3. *Location*: Wash Rack

   Description of the type, characteristics, and quantity of materials handled or stored; the shipping, receiving, and loading procedures; and the spill or leak prevention and response procedures: Cleaning vehicles and containers with pressure washers. Biodegradable soap is used for washing the exterior and interior of roll off bins, containers, garbage trucks, street sweepers and other vehicles. Wash water is filtered through a containment vault and contained on the wash pad. Accumulated debris is shoveled into trash bins. Quantities of biodegradable soap are listed in Section E. Spills or leaks from the biodegradable soap above ground storage tank may occur during material handling. Spill or leak response supplies are located at the Facility. In general, spill response procedures include notifications to the Transfer Station Manager and affected employees; orderly evacuation if applicable; containment of spill; using spill kits (i.e., absorbent materials to cleanup up the spill/leak); and proper disposal of the used absorbent and other cleanup materials. Leak prevention procedures include a preventative maintenance program described in Section G. Additional details are also included within the appropriate documents located on-site.

   If applicable, describe the areas protected by containment structures and the corresponding containment capacity: The wash rack is walled in both sides and is graded and bermed to divert flow to a drain.

4. *Location*: Used Oil Depot

   Description of the type, characteristics, and quantity of materials handled or stored; the shipping, receiving, and loading procedures; and the spill or leak prevention and response procedures: Used oil is put into a double walled above ground tank and stored within a concrete containment area with a roof over the entire area. There are spill pallets as well to contain any drips or spills from customers. The approximate quantities of materials handled or stored are included in Section E. Spills or leaks may occur during material handling. Spill or leak response supplies are located at the Facility. In general, spill response procedures include notifications to the Transfer Station Manager and affected employees; orderly evacuation if applicable; containment of spill; using spill kits (i.e., absorbent materials to cleanup up the spill/leak); and proper disposal of the

used absorbent and other cleanup materials. Leak prevention procedures include a preventative maintenance program described in Section G. Additional details are also included within the appropriate documents located on-site.

If applicable, describe the areas protected by containment structures and the corresponding containment capacity: The above ground tank is double walled and stored within a concrete containment area with an awning. There are spill pallets as well to contain any drips or spills from customers.

5. *Location*: Hazardous Waste Storage Area

   Description of the type, characteristics, and quantity of materials handled or stored; the shipping, receiving, and loading procedures; and the spill or leak prevention and response procedures: Public customers bring used paints, solvents, flammables, combustibles, cooking grease, and batteries for recycling. These materials are placed within secondary containment and under cover. Some materials are placed in the hazardous materials shed. Quantities of materials to be recycled are various. Spills or leaks may occur during material handling. Spill or leak response supplies are located at the Facility. In general, spill response procedures include notifications to the Transfer Station Manager and affected employees; orderly evacuation if applicable; containment of spill; using spill kits (i.e., absorbent materials to cleanup up the spill/leak); and proper disposal of the used absorbent and other cleanup materials. Leak prevention procedures include a preventative maintenance program described in Section G. Additional details are also included within the appropriate documents located on-site.

   If applicable, describe the areas protected by containment structures and the corresponding containment capacity: Materials are stored within a concrete containment area with an awning or in hazardous materials shed. There are spill pallets as well to contain any drips or spills from customers.

6. *Location*: Transfer Station /Tipping Floor and Vactor Truck Wash Area

   Description of the type, characteristics, and quantity of materials handled or stored; the shipping, receiving, and loading procedures; and the spill or leak prevention and response procedures: There are no significant materials used in the receiving of municipal and green waste, however, there is sediment and debris that is generated from the process. On the tipping floor, customers and City vehicles dump municipal refuse where it is mixed by a front loader and pushed into long haul trucks for final disposal at the Altamont Landfill. Green waste is also dumped on the tipping floor and sent offsite for composting. Materials dumped are visually inspected by personnel for hazardous or unauthorized materials and returned to the customer when possible. The vactor truck wash area is located at the north-east corner of the transfer station/tipping floor. The area is bermed and connected to sanitary sewer. Material collected from vactor trucks are emptied within the bermed area. The approximate quantities of materials handled or stored are included in Section E. Spills or leaks may occur during material handling. Spill or leak response supplies are located at the Facility. In general, spill response

procedures include notifications to the Transfer Station Manager and affected employees; orderly evacuation if applicable; containment of spill; using spill kits (i.e., absorbent materials to cleanup up the spill/leak); and proper disposal of the used absorbent and other cleanup materials. Leak prevention procedures include a preventative maintenance program described in Section G. Additional details are also included within the appropriate documents located on-site.

If applicable, describe the areas protected by containment structures and the corresponding containment capacity: The tipping floor building is designed to cover the refuse material pile and uses misters to provide dust suppression. The tipping floor drains to the sanitary sewer.

7. *Location*: Outdoor Construction Debris Receiving Area

   Description of the type, characteristics, and quantity of materials handled or stored; the shipping, receiving, and loading procedures; and the spill or leak prevention and response procedures: Customers dump construction debris in the receiving area. The approximate quantities of materials handled or stored are included in Section E. Spills or leaks may occur during material handling. Spill or leak response supplies are located at the Facility. In general, spill response procedures include notifications to the Transfer Station Manager and affected employees; orderly evacuation if applicable; containment of spill; using spill kits (i.e., absorbent materials to cleanup up the spill/leak); and proper disposal of the used absorbent and other cleanup materials. Leak prevention procedures include a preventative maintenance program described in Section G. Additional details are also included within the appropriate documents located on-site.

   If applicable, describe the areas protected by containment structures and the corresponding containment capacity: The area is served by a trench drain. A manhole with two sluice gates adjacent to the trench drain has the ability to direct flow to the EBMUD sanitary sewer or storm drain. To simplify operations, the gate valve is directed to storm drain. In this mode of operation, stormwater or dust control water would flow into the trench drain and into a 21,000 gallon above ground storage tank (AST) with another backup 21,000 gallon AST. Water from the tank would be discharge into EBMUD sanitary sewer during dry days under permit. Additionally, a trench drain collects stormwater or dust control water from Catchment Area B and routed to the same 21,000 gallon holding tank. Prior to rain events, the construction debris area and trench drain are cleaned.

8. *Location*: Universal Waste and General Electronic/ Electronic General Waste Storage

   Description of the type, characteristics, and quantity of materials handled or stored; the shipping, receiving, and loading procedures; and the spill or leak prevention and response procedures: Universal Waste is brought by the Public for recycling by a vendor. It is stored to prevent breakage, but sometimes materials are already delivered damaged. These are stored in a cardboard box. Personnel assist the public to prevent breakage. The quantities are various based on usage. Spills or leaks may occur during material

handling. Spill or leak response supplies are located at the Facility. In general, spill response procedures include notifications to the Transfer Station Supervisor and affected employees; orderly evacuation if applicable; containment of spill; using spill kits (i.e., absorbent materials to cleanup up the spill/leak); and proper disposal of the used absorbent and other cleanup materials. Leak prevention procedures include a preventative maintenance program described in Section G. Additional details are also included within the appropriate documents located on-site.

If applicable, describe the areas protected by containment structures and the corresponding containment capacity: Materials are stored in twenty-yard shipping containers and covered with tarps when not in use and during storm events.

9. *Location*: Container / Bin Storage Area/Container Maintenance Building/Truck Parking

   Description of the type, characteristics, and quantity of materials handled or stored; the shipping, receiving, and loading procedures; and the spill or leak prevention and response procedures: The replacement containers for recycling and municipal waste, debris boxes and roll off containers are stored. There are no hazardous materials or spill risk associated with this storage area. However, there could be leaks from trucks delivering the bins and roll off containers and parking and residual liquid in the bins/containers. Quantities of bins are not applicable. Spills or leaks may occur during material handling. Spill or leak response supplies are located at the Facility. In general, spill response procedures include notifications to the Transfer Station Manager and affected employees; orderly evacuation if applicable; containment of spill; using spill kits (i.e., absorbent materials to cleanup up the spill/leak); and proper disposal of the used absorbent and other cleanup materials. Leak prevention procedures include a preventative maintenance program described in Section G. Additional details are also included within the appropriate documents located on-site.

   If applicable, describe the areas protected by containment structures and the corresponding containment capacity: Some of the bins are stored in a warehouse. The bins stored outdoors are covered when not in use and during storm events.

10. *Location*: Mattress Area

    Description of the type, characteristics, and quantity of materials handled or stored; the shipping, receiving, and loading procedures; and the spill or leak prevention and response procedures: Spent and old mattresses are stacked up under canopy awaiting for final disposal. Quantities of bins are not applicable. Spills or leaks may occur during material handling. Spill or leak response supplies are located at the Facility. In general, spill response procedures include notifications to the Transfer Station Supervisor and affected employees; orderly evacuation if applicable; containment of spill; using spill kits (i.e., absorbent materials to cleanup up the spill/leak); and proper disposal of the used absorbent and other cleanup materials. Leak prevention procedures include a preventative maintenance program described in Section G. Additional details are also included within the appropriate documents located on-site.

If applicable, describe the areas protected by containment structures and the corresponding containment capacity: Not applicable.

11. *Location*: Recycling Center – Recycling - Comingled Container Storage

    Description of the type, characteristics, and quantity of materials handled or stored; the shipping, receiving, and loading procedures; and the spill or leak prevention and response procedures: The recycling trucks deliver loads of mixed containers daily to the recycling center container storage area where they are loaded and sorted on conveyor belts. The plastic containers at times contain residual liquids from soft drinks, water, milk, juices, etc. The approximate quantities of materials handled or stored are included in Section E. Spills or leaks may occur during material handling. Spill or leak response supplies are located at the Facility. In general, spill response procedures include notifications to the Transfer Station Manager and affected employees; orderly evacuation if applicable; containment of spill; using spill kits (i.e., absorbent materials to cleanup up the spill/leak); and proper disposal of the used absorbent and other cleanup materials. Leak prevention procedures include a preventative maintenance program described in Section G. Additional details are also included within the appropriate documents located on-site.

    If applicable, describe the areas protected by containment structures and the corresponding containment capacity: A valley trench drain has been installed in front of the comingled container storage area which collects stormwater into two (2) 4,000 gallon above ground tanks. Stormwater in the tank is discharge into EBMUD sanitary sewer during non-rain events (after 24 hours of dry weather) under permit. The tank also receives stormwater from the Glass Sorting Area. Additionally absorbent materials are used to prevent runoff from the site for spills not contained within the valley trench drain.

12. *Location*: Recycling Center - Customer Recyclable Area

    Description of the type, characteristics, and quantity of materials handled or stored; the shipping, receiving, and loading procedures; and the spill or leak prevention and response procedures: The Public primarily brings plastic, glass and aluminum containers for recycling through a buyback program. There are buckets provided for the Public to drain any liquids from their containers before having them loaded onto a conveyor belt for sorting and baling. The quantities are variable based on customer usage. Spills or leaks may occur during material handling. Spill or leak response supplies are located at the Facility. In general, spill response procedures include notifications to the Transfer Station Supervisor and affected employees; orderly evacuation if applicable; containment of spill; using spill kits (i.e., absorbent materials to cleanup up the spill/leak); and proper disposal of the used absorbent and other cleanup materials. Leak prevention procedures include a preventative maintenance program described in Section G. The CCC will either store under cover or remove from the CCC all abandoned or broken equipment or materials no longer considered for future use that have the

potential to serve as the source for pollutant loading Additional details are also included within the appropriate documents located on-site.

If applicable, describe the areas protected by containment structures and the corresponding containment capacity: Materials other than containers such as scrap metal are stored in an open top metal container with a cover. These container are stored under canopy. Additionally, a berm is constructed at the Customer Recyclable Area to prevent stormwater run-on from the central area of the Recycling Center.

13. *Location*: Recycling Center - Paper Recycling Warehouse

    Description of the type, characteristics, and quantity of materials handled or stored; the shipping, receiving, and loading procedures; and the spill or leak prevention and response procedures: Paper and cardboard for recycling are baled and staged for transfer to another recycler. The approximate quantities of materials handled or stored are included in Section E. Spills or leaks may occur during material handling. Spill or leak response supplies are located at the Facility. In general, spill response procedures include notifications to the Transfer Station Supervisor and affected employees; orderly evacuation if applicable; containment of spill; using spill kits (i.e., absorbent materials to cleanup up the spill/leak); and proper disposal of the used absorbent and other cleanup materials. Leak prevention procedures include a preventative maintenance program described in Section G. Additional details are also included within the appropriate documents located on-site.

    If applicable, describe the areas protected by containment structures and the corresponding containment capacity: Paper recycling activities are done within a warehouse building.

14. *Location*: Recycling Center – Glass Sorting Area

    Description of the type, characteristics, and quantity of materials handled or stored; the shipping, receiving, and loading procedures; and the spill or leak prevention and response procedures: Glass is sorted and place on conveyor belts based on color and dropped into bins. The approximate quantities of materials handled or stored are included in Section E. Spills or leaks may occur during material handling. Spill or leak response supplies are located at the Facility. In general, spill response procedures include notifications to the Transfer Station Supervisor and affected employees; orderly evacuation if applicable; containment of spill; using spill kits (i.e., absorbent materials to cleanup up the spill/leak); and proper disposal of the used absorbent and other cleanup materials. Leak prevention procedures include a preventative maintenance program described in Section G. Additional details are also included within the appropriate documents located on-site.

    If applicable, describe the areas protected by containment structures and the corresponding containment capacity: A valley trench drain has been installed in front of the glass sorting area which collects stormwater into two (2) 4,000 gallon above ground

tanks. Stormwater in the tank is discharge into EBMUD sanitary sewer during non-rain (after 24 hours of dry weather) events under permit. The tank also receives stormwater from the Comingled Container Storage Area. Absorbent materials are used to prevent runoff from the site for spills not contained within the valley trench drain. Additionally, the concrete bins prevent some run-on to other areas of the Recycling Center.

15. *Location*: Ecology Center – Truck Parking Area

    Description of the type, characteristics, and quantity of materials handled or stored; the shipping, receiving, and loading procedures; and the spill or leak prevention and response procedures: Cans, bottles, newsprint, mixed paper, plastic, and cardboard are deposited at their designated area at the Recycling Center after pickup. Trucks are parked in a designated area with minor maintenance performed by outside contractor Mobile Fleet Care at the Ecology Center. All major truck maintenance are performed offsite. The approximate quantities of materials handled or stored are included in Section E. Spills or leaks may occur during material handling. Spill or leak response supplies are located at the Ecology Center. In general, spill response procedures include cleaning and spill containment using spill kits (i.e., absorbent materials to cleanup up the spill/leak); and proper disposal of the used absorbent and other cleanup materials. Leak prevention procedures include a preventative maintenance program described in Section G. The Ecology Center will either store under cover or remove from the Ecology Center all abandoned or broken equipment or materials no longer considered for future use that have the potential to serve as the source for pollutant loading. Additional details are also included within the appropriate documents located on-site.

    If applicable, describe the areas protected by containment structures and the corresponding containment capacity: The Ecology Center storage shed (a cargo bin) has drums and containers to store used and unused oil, lubricants, hydraulic fluid, and absorbents. These materials are stored in quart size containers and 55 gallon drums. Used fluids and absorbents are disposed of offsite by vendor.

F.3 DUST & PARTICULATE GENERATING ACTIVITIES (GENERAL PERMIT SECTION X.G.1.C)

Presented below are descriptions of the Facility's dust and particulate generating activities that have the potential for exposure to storm water or authorized non-storm water discharges.

1. *Industrial activity*: Tipping Floor Building

   Discharge location(s): Dust from the tipping floor and construction debris storage area could migrate to all areas of the Transfer Station. Therefore the primary discharge points would be DP-1A, DP-2A and DP-3A from catchment areas A and C. Dust from the tipping floor would primarily be discharged to EBMUD sanitary sewer from all of catchment area B which are in close proximity to the tipping floor.

   Source Type: Municipal and green waste.

Description of the physical characteristics of the dust and particulate pollutants: During offloading of municipal, and green waste dust and particulates may be generated. In general, the particulates include sand, dirt and particulates from debris. There are misters in the building to help suppress dust, which are scheduled for replacement. Water is sprayed on the entry points to the building as needed to assist with dust suppression.

2. *Industrial activity*: Truck Parking Area and Paved Access Roads

   Discharge location(s): The primary discharge points would be DP-1A, DP-2A, DP-3A, and DP-4 from catchment areas A, C and D. Dust from the paved access road in catchment area B would primarily be discharged to EBMUD sanitary sewer.

   Source Type: Dirt from vehicular traffic and construction debris and occasional green waste liquid from long-haul trucks.

   Description of the physical characteristics of the dust and particulate pollutants: Dust may be observed from trucks driving across the site and tracking from tipping floor and outside construction debris receiving area. A sweeper is used to prevent dust from accumulating in the parking areas and paved roads. Sweeping is performed twice a day.

3. *Industrial activity*: Construction Debris Receiving Area

   Discharge location(s): The primary discharge point would be EBMUD sanitary sewer from trench drains in catchment area B. If dust were to migrate, discharges could occur at DP-1, DP-2 and DP-3.

   Source Type: Dirt and dust

   Description of the physical characteristics of the dust and particulate pollutants: Dust and particulates may accumulate near the construction debris before it is loaded into the long-haul trucks. Water used for dust suppression may be applied within the entry to the construction debris area or on the construction debris as necessary while the trench drain valve is turned to divert flow to the stormwater holding tank.

4. *Industrial activity*: Glass Sorting Area

   Discharge location(s): DP-5A, DP-9 and EBMUD sanitary sewer

   Source Type: Glass dust from broken glass during sorting into storage bins

   Description of the physical characteristics of the dust and particulate pollutants: Dust may accumulate near the glass sorting area due to broken glass and tracking of particulates from loading activities onto paved access roads. Hand sweeping and a mechanical sweeper is used to prevent dust from accumulating on the access roads. Additionally, stormwater is collected in a valley trench drain from the glass sorting area; and is temporarily stored in an above ground tank for discharged to EBMUD sanitary sewer during dry days.

F.4 POTENTIAL FOR SIGNIFICANT SPILLS AND LEAKS (GENERAL PERMIT SECTION X.G.1.D.I)

Presented below are descriptions of the Facility's areas where spills and leaks can occur.

Location Where Spills and Leaks Can Likely Occur	General Description of Potential for Spills and Leaks
Equipment Maintenance	Potential for spills of oil, solvents and antifreeze from leaks during material transfer and usage
Used Oil Above Ground Tank	Potential for leaks during material transfer, spills, leaks, or tank rupture
Hazardous Materials Storage Area	Potential for leaks during material transfer, spills and leaks
Employee Parking Areas	Leaks from vehicles, ruptured hydraulic fuel lines, drips from motors
Mattress Area	Leaks from vehicles, ruptured hydraulic fuel lines, drips from motors
UST	Spills during material transfer and leaks during fueling
Customer Recyclable Area	Spills of residual fluids during transfer into buckets and recycling bins
Comingled Containment Storage	Leaks from residual fluids in plastic containers during material handing
Truck Parking Areas at the Transfer Station and Ecology Center	Leaks from residual fluids in green waste, ruptured hydraulic fuel lines, drips from motors
Container/Bin Storage Area	Leaks from residual fluids in bins if not properly cleaned
Stormwater Storage Tanks	Overflow from tanks if stormwater is not discharged to sanitary sewer in reasonable time frame after rain events during dry days. Overflow may occur from tanks due to a very large storm event or multiple large storms in succession.

F.5 SIGNIFICANT SPILLS AND LEAKS (GENERAL PERMIT SECTION X.G.1.D.II AND III)

No industrial materials that have spilled or leaked in significant quantities and discharged from the Facility's storm water conveyance system or had the potential to discharge within the previous five-year period. However, should spills or leaks identified in 40 Code of Federal Regulations section 302 that have discharged from the Facility's storm water conveyance system as reported on U.S. EPA Form R, as well as oil and hazardous substances discharges in excess of reportable quantities (40 C.F.R §§110, 117, and 302) occur, the information would be included in the table below.

Describe Material leaked or spilled	Location of Spill or Leak & Corresponding Drainage Area	Describe whether the spill or leak discharged or had the potential to discharge from Facility	Describe spill (Include characteristics, quantity spilled/leaked, and quantity discharged as appropriate)	Describe cleanup or remedial actions	Describe preventative measures taken to avoid reoccurrence
None	None	None	None	None	None

F.6 AUTHORIZED NON-STORM WATER DISCHARGE(S) (GENERAL PERMIT SECTION X.G.1.E.I AND II, AND IV)

Presented below is a summary of potential authorized NSWD at the Facility. If there is no potential for authorized non-storm water discharges, identify "none" under the first line below.

1. *Description of non-storm water discharge*: None

   Frequency of Discharge:

   Source(s) of non-storm water discharge:

   Quantity of non-storm water discharge (per typical event, annually, etc.):

   Characteristics of discharge:

   Associated drainage are and/or discharge point(s):

   Authorized by General Permit?

   Description of BMPs to prevent or reduce contact of non-storm water discharges with significant materials or equipment:

F.7 UNAUTHORIZED NON-STORM WATER DISCHARGE(S) (GENERAL PERMIT SECTION X.G.1.E.III)

Presented below is a summary of how unauthorized NSWDs at the Facility have been eliminated.

1. Area: *Recycling Center* – Comingled Container Storage Area

   Potential Unauthorized Discharge: Liquid from recycling trucks, stockpiled plastic and potential equipment leaks from front-end loader.

   BMPs: A valley trench drain is installed in front of the Comingled Container Storage Area. Spills and leaks and stormwater flows into the valley trench drain and is temporarily stored on site in two (2) 4,000 gallon stormwater holding tanks. During non-storm events, collected stormwater is discharged into EBMUD sanitary sewer under permit with discharge logs. Additionally, maintenance records are kept to document cleaning and pump change out when necessary. Spills are cleaned up as soon as possible to reduce the potential for discharge outside the bermed area. Site specific preventative maintenance, material handling and waste management BMPs, and training programs for areas with washing operations are included in Section G of this SWPPP to prevent unauthorized releases.

2. *Area*: Recycling Center – Customer Recyclable Area

   Potential Unauthorized Discharge: Liquid from waste storage bins.

   BMPs: Buckets are given to customers to pour residual fluids from cans, bottles and plastic containers into the bucket. Liquids in the buckets are disposed through the

sanitary sewer. Stormwater run-on from the central area of the facility is controlled by a berm. Sweeping and cleaning of spills are performed to reduce the potential for discharge. A canopy structure prevents rain from contacting materials in the customer recyclable area. Site specific spill response procedures, material handling and waste management BMPs, and training programs are included in Section G of this SWPPP to prevent unauthorized releases from material handling and storage areas.

3. *Area*: Recycling Center – Glass Sorting Area

   Potential Unauthorized Discharge: Residual liquid from broken glass.

   BMPs: A valley trench drain is installed in front of the Glass Sorting Area. Spills and leaks and stormwater flows into the valley trench drain and is temporarily stored on site in two (2) 4,000 gallon stormwater holding tanks. During non-storm events, collected stormwater is discharged into EBMUD sanitary sewer under permit with discharge logs. Additionally, maintenance records are kept to document cleaning and pump change out when necessary. Spills are cleaned up as soon as possible to reduce the potential for discharge outside the bermed area. Broken glass outside the berm is controlled by hand and mechanical sweeping. Site specific preventative maintenance, material handling and waste management BMPs, and training programs for areas with washing operations are included in Section G of this SWPPP to prevent unauthorized releases.

4. *Area*: Construction Debris Area

   Potential Unauthorized Discharge: Dust Control Water

   BMPs: Dust control water from the construction debris area is contained by a trench drain. Two sluice gates in a manhole adjacent to the trench drain TD-4 has the ability to direct flow to the EBMUD sanitary sewer or storm drain. To simplify operations, the gate valve is directed to storm drain. This mode of operation allows stormwater or dust control water to flow into a 21,000 gallon AST with another 21,000-gallon backup AST for additional storage. Water from the tank would be discharge into EBMUD sanitary sewer during dry days under permit with discharge logs. Additionally, trench drain TD-3 collects stormwater or dust control water from Catchment Area B and routed to the same 21,000 gallon holding tank.

   Spills are controlled by berms and sweeping to reduce the potential for discharge. Site specific spill response procedures, material handling and waste management BMPs, and training programs are included in Section G of this SWPPP to prevent unauthorized releases from material handling and storage areas.

5. *Area*: Fueling Area

   Potential Unauthorized Discharge: Diesel fuel.

   BMPs: Spills are controlled by berms and sweeping to reduce the potential for discharge. A spill kit is at the central fuel island which is adjacent to the second fuel island near the truck wash area, in case of diesel leaks during fueling. Additional spill kits are located and within the equipment maintenance building at the Transfer Station.

Site specific spill response procedures, material handling and waste management BMPs, and training programs are included in Section G of this SWPPP to prevent unauthorized releases from material handling and storage areas.

6. *Area*: Used Oil Depot and Hazardous Materials Storage Area

   Potential Unauthorized Discharge: Waste oils, paints, solvents, flammables, combustibles, cooking grease, and acids from batteries.

   BMPs: Spills are controlled by berms, overhead roof coverage, hazardous materials storage shed and secondary containment to reduce the potential for discharge. Site specific spill response procedures, material handling and waste management BMPs, and training programs are included in Section G of this SWPPP to prevent unauthorized releases from material handling and storage areas.

7. *Area*: Equipment Maintenance Building

   Potential Unauthorized Discharge: Oils, solvents, greases, antifreeze, transmission fluids, hydraulic fluid, and batteries.

   BMPs: Maintenance is performed indoors. Site specific spill response procedures, material handling and waste management BMPs, and training programs are included in Section G of this SWPPP to prevent unauthorized releases from material handling and storage areas.

8. *Area*: Wash Rack

   Potential Unauthorized Discharge: Rinsate and biodegradable soap from washing vehicles.

   BMPs: The wash rack is walled in both sides and is graded and bermed to divert flow to a drain. During dry weather, the drain flows to the sanitary sewer. The gate valve is always closed to the storm and open to the sanitary conveyance system. Due to confined space safety concerns, staff no longer enter the manhole to operate the gate valve. Instead, a spill cover is used to cover the manhole during rain events. Water from the wash rack flows to a media filter treatment vault that discharges to the sanitary drain. No washing occurs during storm events. The standard operating procedure for cleaning the wash rack area is power spraying water into the grated manhole with trash picked up and deposited in a bin. Site specific spill response procedures, material handling and waste management BMPs, and training programs are included in Section G of this SWPPP to prevent unauthorized releases from material handling and storage areas.

9. *Area*: Truck Parking Areas

   Potential Unauthorized Discharge: Drips from engines and green waste in haul trucks.

   BMPs: Site specific preventative maintenance, material handling and waste management BMPs, and training programs are included in Section G of this SWPPP to prevent unauthorized releases.

10. *Area*: Transfer Station/Tipping Floor and Vactor Truck Wash Area

    Potential Unauthorized Discharge: Dust control water and vactor truck material.

    BMPs: Dust control water is supplied through misters to minimize dust during wheeled front –end loaders moving municipal and green waste and loading material into haul trucks. Vactor truck material is emptied into a bermed area and connected to sanitary sewer. If excess dust control water is supplied or spills occur from vactor truck material, it will flow into trench drain TD-3 and captured in the stormwater holding tank for Catchment Area B. Additionally, spilled vactor truck material outside the berm is cleaned up immediately and deposited within the bermed area. Site specific preventative maintenance, material handling and waste management BMPs are included in Section G of this SWPPP to prevent unauthorized releases.

11. *Area*: Container/Bin Storage Areas/Container Maintenance Building/Truck Parking

    Potential Unauthorized Discharge: Residual liquids and oil and hydraulic leaks from parked trucks.

    BMPs: Containers and bins are cleaned to remove materials and liquids prior to storage. Cleanup of leaks and spills from trucks with spill kit and absorbent materials as soon as they are discovered. Site specific preventative maintenance, material handling and waste management BMPs are included in Section G of this SWPPP to prevent unauthorized releases.

12. *Area*: Stormwater Storage Tank Areas

    Potential Unauthorized Discharge: Overflow from collected stormwater and residual liquids collected from the Catchment Area B, Outdoor Construction Debris, Glass Sorting and Comingled Container Storage Areas.

    BMPs: Stormwater storage tanks are inspected after rain events to assure adequate freeboard and or discharged to sanitary sewer after 24-hours of dry day, before discharge per EBMUD permit. Discharge logs are kept when water is released to EBMUD. Site specific preventative maintenance, include cleaning of sumps and grates, inspection of pumps and piping associated with the stormwater storage tanks, and weather tracking to evaluate future storm events that could cause overflow if stored stormwater is not discharged to sanitary sewer. Maintenance logs are kept. During the dry season the storage tanks are emptied. Stormwater storage tank BMPs are included in Section G of this SWPPP to prevent unauthorized releases.

F.8 ERODIBLE SURFACES (GENERAL PERMIT SECTION X.G.1.F)

Presented below are descriptions of the Facility locations where erosion may be caused by industrial activity, contact with storm water, authorized and unauthorized NSWDs, or run-on from areas surrounding the Facility.

13. *Description of Area*: Not applicable. The Facility is paved with very few areas that are unpaved in Catchment Area A, relatively flat, and with a low potential for erosion. If future observations indicate areas of erosion, those areas will be identified in the SWPPP below.

    Description of Potential Erosion:

    Associated Drainage Area(s):

    Describe Sediment or Erosion Control BMP(s):

F.9 ASSESSMENT OF POTENTIAL POLLUTANT SOURCES (GENERAL PERMIT SECTION X.G.2)

The General Permit requires a narrative assessment of all areas of industrial activity with potential industrial pollutant sources. The narrative source assessment with items that must be considered is included below or the applicable section of the SWPPP is referenced within the table.

Assessment Requirement	Narrative Description of Assessment
Areas of the Facility with likely sources of pollutants in industrial storm water discharges and authorized NSWDs (Section X.G.2.a.i)	Areas of the Facility with likely sources of pollutants are described within Section F (Potential Pollutant Source) above.
Pollutants likely to be present in industrial storm water discharges and authorized NSWDs (Section X.G.2.a.ii)	Industrial materials that may come in contact with storm water are presented in Section E of this SWPPP. BMPs implemented at the Facility are presented in Sections G, H, I, J, and L. These BMPs are implemented at the Facility to minimize the potential for off-site discharge of the pollutants identified in Sections E and F.
Approximate quantity, physical characteristics (e.g., liquid, powder, solid, etc.) and locations of each industrial material handled, produced, stored, recycled, or disposed (Section X.G.2.a.iii)	Quantities, locations, and physical characteristics for locations of industrial materials handled, produced, stored, recycled, or disposed are included within this SWPPP under Section E, List of Industrial Materials.
The degree to which the pollutants associated with those materials may be exposed to, and mobilized by contact with, storm water (Section X.G.2.a.iv)	Pollutants associated with industrial materials and processes are included in Sections E and F. BMPs to minimize exposure and/or mobilization of pollutants are identified in Sections E and F are included in Sections G, H, I, J, and L of this SWPPP.
The direct and indirect pathways by which pollutants may be exposed to storm water or authorized NSWDs (Section X.G.2.a.v)	The pathways to which pollutants associated with industrial materials may be exposed to, and mobilized by contact with storm water is identified in Sections F.1 to F.8.
All sampling, visual observation, and inspection records (Section X.G.2.a.vi)	The MIP, Section M, describes the assessment of sampling, visual observation, and inspection records. Additional pollutant sources observed will be included in the SWPPP.

Assessment Requirement	Narrative Description of Assessment
The effectiveness of existing BMPs to reduce or prevent pollutants in industrial storm water discharges and authorized NSWDs (Section X.G.2.a.vii)	The existing BMPs implemented at the Facility to reduce or prevent pollutants in industrial storm water discharges and authorized NSWDs are presented in Sections G, H, I, J, and L of this SWPPP. The BMPs described in this SWPPP are intended to minimize the potential for off-site discharge of pollutants associated with the industrial activities. The MIP, Section M of this SWPPP, describes the assessment of the BMPs. If additional BMPs are necessary based on visual observations or analytical results, additional BMPs will be implemented and the SWPPP will be revised as necessary.
The estimated effectiveness of implementing, to the extent feasible, minimum BMPs to reduce or prevent pollutants in industrial storm water discharges and authorized NSWDs (Section X.G.2.a.viii)	The estimated effectiveness of implementing, to the extent feasible, minimum BMPs to reduce or prevent pollutants in industrial storm water discharges and authorized NSWDs is presented in Sections G, H, I, and J of this SWPPP. Section H includes an employee training program with initial and periodic refresher trainings for Facility employees. The training program is intended to support consistent and effective implementation of the BMPs.
The identification of industrial pollutants related to the receiving waters with 303(d) listed impairments identified in Appendix 3 or approved TMDLs that may be causing or contributing to an exceedance of a water quality standard in the receiving waters (Section X.G.2.a.ix)	The Facility directly discharges to Central San Francisco Bay via the City's MS4 and is 303(d) listed as impaired for the following parameters: • Chlordane • DDT • Diazinon • Dieldrin • Dioxins • Furans • Mercury • PCBs and includes dioxin like compounds • Polybrominated diphenyl ethers (PBDEs) • Selenium In addition, the 10-digit Hydrologic Unit Code (HUC 10) watershed downstream of the Facility was evaluated based on email correspondence with the Water Board. These constituents are: • Dacthal • E. Coli and Enterococcus • Copper • Zinc • Temperature Based on our review of industrial materials at the Transfer Station, no parameters were added to the sampling list summarized in Section M.5.C since zinc is part of the SIC constituent and copper was added from pollutant source assessment.
Identify any areas where minimum BMPs described in General Permit Subsection H.1 will not adequately reduce or prevent pollutants in storm water discharges in compliance with section V.A. Identify advanced BMPs for those areas. (Section X.G.2.b)	Minimum BMPs are included in Sections G, H, I, and J of this SWPPP. Advanced BMPs are included in this SWPPP under Section J.
Identify drainage areas with no exposure to industrial activities and materials in accordance with the definitions in General Permit Section XVII (Section X.G.2.c)	Not Applicable

Assessment Requirement	Narrative Description of Assessment
Identify additional parameters that indicate the presence of pollutants in industrial storm water discharges (Section X.G.2.d)	No additional indicator parameters were added based on this assessment as shown in Section M, MIP.

G. MINIMUM BMPS (GENERAL PERMIT SECTION X.H)

The Facility is required to implement and maintain the minimum BMPs described in Section X.H.1 of the General Permit to the extent feasible. The extent feasible requirement reflects best industry practice considering technological availability and economic practicability and achievability. Presented below are the minimum BMP requirements, areas where the minimum BMP requirement is applicable, and site-specific BMP description used to comply with the minimum BMP.

Minimum BMP Requirement (Reference to Section in General Permit)	Area(s) Implemented	Site Specific BMP Description	Does Minimum or Alternate BMP Reflect Best Industry Practice? (Yes/No)	Actions Performed in lieu of BMP (Requirement from Section X.H.4.c)
Observe all outdoor areas associated with industrial activity. Any identified debris, waste, spills, tracked materials, or leaked materials shall be cleaned and disposed of properly (Section X.H.1.a.i).	Entire Facility	• Employees are trained to monitor their areas for spills and leaks from equipment and industrial areas that may result in spills or leaks. • The Facility will either store under cover or remove from the Facility all abandoned or broken equipment or materials no longer considered for future use that have the potential to serve as the source for pollutant loading. • Inspections are performed in accordance with the BMP Summary Table (Section L) and MIP (Section M). • Absorbent materials are available in event of a spill or leak. General spill response procedures are identified in Section F.2. Item 1.	Yes	Not Applicable
Minimize or prevent material tracking (Section X.H.1.a.ii).	Entire Facility	• Dust suppression water is used as necessary in areas that discharge to the sanitary sewer. • Trucks are washed daily. • Sweeping is performed twice daily and as needed. Daily sweeping logs are kept.	Yes	Not Applicable
Minimize dust generated from industrial materials or activities (Section X.H.1.a.iii).	Tipping Floor / Transfer Station, Green Waste Area, Glass Sorting Area	• Dust suppression water is used as necessary in areas that discharge to the sanitary. • Sweeping is performed twice daily and as needed.	Yes	Not Applicable
Ensure that all facility areas impacted by rinse/wash waters are cleaned as soon as possible (Section X.H.1.a.iv).	Wash Rack Area, Vactor Truck Wash Area	• Truck washing is performed in the wash rack area only. Wash water flows to a drain that flow through a filter vault then to sanitary sewer. During storm events, no washing is performed in the wash rack. The standard operating procedure for cleaning the wash rack area is power spraying water into the grated manhole where trash is collected and removed and deposited in a bin. The gate valve is always closed to the storm and open to the sanitary conveyance system. Due to confined space safety concerns, staff no longer enter the manhole to operate the gate valve. Instead, a spill cover is used to cover the manhole during rain events. After cleaning the wash rack area, water discharges to EBMUD system.	Yes	Not Applicable
Cover all stored industrial materials that can be readily mobilized by contact with storm water (Section X.H.1.a.v).	Transfer Station/ Tipping floor (Green Waste), Area, Equipment Maintenance Building, Mattress Area, Paper Recycling Warehouse, Hazardous Materials Storage, Used Oil Depot, Universal Waste, Electronic Waste, and Customer Recyclable Area, Bin Storage Areas (Active Bins Only)	• The Facility will either store under cover or remove from the Facility all abandoned or broken equipment or materials no longer considered for future use that have the potential to serve as the source for pollutant loading. • Materials are stored indoors, over canopy, in covered containers, and under overhangs when feasible, otherwise materials area stored or covered with tarps if they are to remain outdoors.	Yes	Outdoor construction debris receiving area (Transfer Station) and glass sorting and comingle storage areas (Recycling Center) are not covered. Stormwater is contained in these areas with trench drainsTD-3 and TD-4 for construction debris receiving area and valley trenches at the glass sorting and comingled containment storage areas. Stormwater collected from these areas are stored in above ground tanks for discharge into EBMUD sanitary sewer after 24 hours of dry weather. Discharge to sanitary sewer is not allowed during rain per EBMUD permit.
Contain all stored non-solid industrial materials or wastes (e.g., particulates, powders, shredded paper, etc.) that can be transported or dispersed by wind or contact with storm water (Section X.H.1.a.vi).	Paper Recycling Warehouse, Transfer Station/Tipping Floor, Green Waste Receiving Area, Universal Waste	• Materials are stored indoors • Green Waste Materials staged indoors prior to rain events if feasible	Yes	Not Applicable

Minimum BMP Requirement (Reference to Section in General Permit)	Area(s) Implemented	Site Specific BMP Description	Does Minimum or Alternate BMP Reflect Best Industry Practice? (Yes/No)	Actions Performed in lieu of BMP (Requirement from Section X.H.4.c)
Prevent disposal of any rinse/wash waters or industrial materials into the storm water conveyance system (Section X.H.1.a.vii).	Wash Rack, Vactor Truck Wash Area	• Wash water flows to a drain that directs stormwater to a vault and then discharges to the sanitary sewer. During storm events, no washing is performed in the wash rack. • Vactor truck waste material is emptied within a berm area and connected to sanitary sewer. • Garbage truck parking in the vicinity of the wash rack has been moved to Catchment Area B to prevent potential washed trucks from dripping wash water, oil and garbage residual liquids into catch basin CB-3 and CB-3A.	Yes	Not Applicable
Minimize storm water discharges from non-industrial areas (e.g., parking lots) that contact industrial areas of the facility (Section X.H.1.a.viii).	Employee Parking Areas, Administrative Building	• The employee parking areas and administrative building drain away from industrial areas and connect to the MS4.	Yes	Not Applicable
Minimize authorized NSWDs from non-industrial areas that contact industrial areas of the facility (Section X.H.1.a.ix).	See Section F.6. There are no authorized NSWDs at the Facility	• Not applicable	Yes	Not Applicable
Identify all equipment and systems used outdoors that may spill or leak pollutants (Section X.H.1.b.i).	Used Oil Depot, Hazardous Materials Storage, Fueling Area, Vehicle Parking Areas, Vehicle Maintenance Building, Wash Rack, Comingled Container Storage, Glass Sorting Area, Container Bin Storage Areas, Customer Recyclable Area, Stormwater Storage Tanks and Associated Equipment	• Areas with the potential for spills or leaks are identified in Section F.4 of this SWPPP. • Areas identified with BMPs to prevent unauthorized NSWDs are included in Section F.7. • Garbage trucks can leak residual liquids, motor and hydraulic oil. Parking of these vehicles have been moved to Catchment Area B from near the wash-rack where the liquids could leak into catch basin CB-3 and CB -3A.	Yes	Not Applicable
Observe the identified equipment and systems to detect leaks, or identify conditions that may result in the development of leaks (Section X.H.1.b.ii).	Used Oil Depot, Hazardous Materials Storage, Fueling Area, Vehicle Parking Areas, Vehicle Maintenance Building, Wash Rack, Comingled Container Storage, Glass Sorting Area, Container Bin Storage Areas, Customer Recyclable Area, Stormwater Storage Tanks and Associated Equipment	• Employees are trained to monitor their areas for spills and leaks from equipment and vehicles areas that may result in spills or leaks. • Inspections are performed in accordance with the BMP Summary Table (Section L) and MIP (Section M). • Above ground tanks and other equipment that may leak are inspected at least monthly to detect leaks and to identify conditions that may result in leaks. • Stormwater storage tanks are inspected after rain events to determine adequate freeboard. Weather is monitored to evaluate storm rainfall amounts and probability. Stormwater in the tanks are discharged to sanitary sewer after 24 hours of dry weather. Stormwater is not allowed to be discharge during rain events per EBMUD permit. Stormwater discharge logs are kept at the TS and CCC.	Yes	Not Applicable

<table>
<tr><th>Minimum BMP Requirement (Reference to Section in General Permit)</th><th>Area(s) Implemented</th><th>Site Specific BMP Description</th><th>Does Minimum or Alternate BMP Reflect Best Industry Practice? (Yes/No)</th><th>Actions Performed in lieu of BMP (Requirement from Section X.H.4.c)</th></tr>
<tr><td>Establish an appropriate schedule for maintenance of identified equipment and systems (Section X.H.1.b.iii).</td><td>Used Oil Depot, Fueling Area, Hazardous Materials Storage, Vehicle Maintenance Building, Wash Rack, Vactor Truck Wash Area, Conveyor Belt and Bailer System, Universal Waste, Stormwater Storage Tanks and Associated Equipment, Contech Filters</td><td>• The schedule for equipment and heavy equipment maintenance is based on the manufacturer's specifications. Preventative maintenance is performed at the maintenance building on-site.
• Hazardous materials and used oil recycling follow Transfer Station Spill Prevention Control Countermeasure Plan and or Hazardous Materials Business Plan.
• Vactor truck wash area berm is inspected for openings and failures that would cause breaches during washout.
• Stormwater holding tanks sewage pump (Transfer Station) and sumps pumps for the Valley Trench Drains (Recycling Center) are checked during the rainy season for operability. Trench drains (TD-3 and TD-4) and valley gutters (GSA-VG and CCS-VG) are cleaned when necessary.
• A contractor has been hired to perform weekly BMP maintenance of the storm and trench drains in addition to maintain Silt Socks and hydrocarbon wattles.
• Effluent stormwater samples are collected at DP-1A, DP-2A and DP-3A with weekly inspections at the catch basins (CB-1, CB-2, CB-3, CB-3A, and CB-4) and trench drains (TD-1, TD-2 and TD-2A) to determine filter (wattles and sediment filter fabric) efficiencies and necessity of Contech media filter media change-out.</td><td>Yes</td><td>Not Applicable</td></tr>
<tr><td>Establish procedures for prompt maintenance and repair of equipment, and maintenance of systems when conditions exist that may result in the development of spills or leaks (Section X.H.1.b.iv).</td><td>Used Oil Depot, Fueling Area, Hazardous Materials Storage, Fueling Area, Vehicle Parking Areas, Vehicle Maintenance Building, Wash Rack, Vactor Truck Wash Area, Conveyor Belt and Bailer System, Stormwater Holding Tanks and Associated Equipment and Contech Filters</td><td>• Inspections are performed as described in the MIP Section of this SWPPP and BMP Summary Table Section L to identify conditions that may result in spills or leaks. If these conditions are observed, the Facility will have the equipment repaired at the maintenance shop, if feasible, and as soon as practicable.
• The Facility has a preventative maintenance to maintain equipment to avoid spills and leaks to the extent practicable.
• Vactor truck wash area berm is inspected.
• Piping for the stormwater holding tanks are checked during the rainy season for leaks.
• Stormwater in the holding tanks are discharged into sanitary sewer after 24 hours of dry weather to prevent conditions that may cause overflow in addition to weather monitoring. Stormwater is not allowed to be discharge during rain events per EBMUD permit. Discharge logs are kept at the TS and the CCC.
• Contech Filters are inspection schedule is approximately every two months. Change out of the media in the cartridges is based on percent capacity remaining by visual observations by the vendor. During each inspection, the vaults are cleaned of sediment. Contech Filter vault specifications are shown below. See Appendix D for more details.
<table>
<tr><th>Discharge Location</th><th>Cartridge Size (inches)</th><th>Number of Cartridges</th><th>Media Type</th></tr>
<tr><td>DP-1A</td><td>18</td><td>13</td><td>ZPG</td></tr>
<tr><td>DP-2A</td><td>18</td><td>13</td><td>ZPG</td></tr>
<tr><td>DP-3A</td><td>12</td><td>3</td><td>Perlite</td></tr>
<tr><td>EBMUD Filter from Truck Wash Rack
•</td><td>18</td><td>4</td><td>ZPG</td></tr>
</table></td><td>Yes</td><td>Not Applicable</td></tr>
</table>

Minimum BMP Requirement (Reference to Section in General Permit)	Area(s) Implemented	Site Specific BMP Description	Does Minimum or Alternate BMP Reflect Best Industry Practice? (Yes/No)	Actions Performed in lieu of BMP (Requirement from Section X.H.4.c)
Establish procedures and/or controls to minimize spills and leaks (Section X.H.1.c.i).	Used Oil Depot, Hazardous Materials Storage, Vehicle Parking Areas, Fueling Area, Wash Area, Vactor Truck Wash Area, Vehicle Maintenance Building, Customer Recycle Area, Comingled Container Storage, Glass Storage Area, Customer Recyclable Area, Stormwater Holding Tanks and Associated Equipment	• Petroleum related above ground tanks are double-walled or located on spill containment pallets, and covered by an awning. • Above ground tanks and equipment identified in Section F.4 are inspected at least monthly in accordance with the MIP, Section M of this SWPPP to identify areas that might result in a spill or leak. • Employees are trained in accordance with Section H on BMPs used at the site to minimize spills and leaks. • Vehicle maintenance is performed inside the Vehicle Maintenance Building when feasible and drip pans are used to prevent spills and large absorbent sheets under the vehicles at the EC truck parking area. • Stormwater holding tanks are discharged into sanitary after 24 hours of dry weather to prevent conditions that may cause overflow, in addition to weather monitoring. Stormwater is not allowed to be discharge during rain events per EBMUD permit. Stormwater discharge logs are kept at the TS and CCC. • Vactor truck waste material is emptied within a berm area and connected to sanitary sewer. • Absorbent sheet BMPs installed under bins at the Customer Recycle Area to capture residual liquids.	Yes	Not Applicable
Develop and implement spill and leak response procedures to prevent industrial materials from discharging through the storm water conveyance system. Spilled or leaked industrial materials shall be cleaned promptly and disposed properly (Section X.H.1.c.ii).	Facility Wide	• Spill or leak prevention response procedures are included in Section F.2 Item 1 of this SWPPP. • Stormwater in holding tanks are inspected and discharged to sanitary sewer after24 hours of dry weather to prevent conditions that may cause overflow in addition to weather monitoring. Stormwater is not allowed to be discharge during rain events per EBMUD permit. Stormwater discharge logs are kept at the TS and CCC. • Absorbent sheet BMPs installed under bins at the Customer Recycle Area to capture residual liquids. • Large absorbent sheet BMPs installed under vehicles at the Ecology Center truck parking area.	Yes	Not Applicable
Identify and describe all necessary and appropriate spill and leak response equipment, location(s) of spill and leak response equipment, and spill or leak response equipment maintenance procedures (Section X.H.1.c.iii).	Used Oil Depot, Vehicle Maintenance Building, Vehicle Parking Areas, Hazardous Materials Storage, Fueling Area, Recycling Comingled Container Area, Green Waste Area, Transfer Station/Tipping Floor, Customer Recycle Area, Stormwater Holding Tanks and Associated Equipment	• Absorbent materials (hydrocarbon wipes, absorption material and kitty litter) and spill kits are located in strategic locations for proper response. In addition, all City Trucks have spill kits on them in case of spills or leaks. Ecology Center and CCC have spill kits. • To avoid spills/overflow, stormwater in holding tanks are inspected and discharged to sanitary sewer after 24 hours of dry weather to maintain freeboard for the next rain event(s) in addition to weather monitoring. Stormwater is not discharged during rain events. Stormwater discharge logs are kept at the TS and CCC. • Absorbent sheet BMPs installed under bins at the Customer Recycle Area to capture residual liquids. • Large absorbent sheet BMPs installed under vehicles at the Ecology Center truck parking area.	Yes	Not Applicable
Identify and train appropriate spill and leak response personnel (Section X.H.1.c.iv).	Used Oil Depot, Vehicle Maintenance Building, Vehicle Parking Areas, Hazardous Materials Storage, Fueling Area, Recycling Comingled Container Area, Green Waste Area, Transfer Station/Tipping Floor, Customer Recycle Area, Stormwater Holding Tanks and Associated Equipment	• Employees responsible for spill and leak cleanup are trained in accordance with Section H of this SWPPP.	Yes	Not Applicable
Prevent or minimize handling of industrial materials or wastes that can be readily mobilized by contact with storm water during a storm event (Section X.H.1.d.i).	Construction Debris and Green Waste Receiving Areas, Transfer Station/Tipping Floor, Vactor Truck Wash Area, Glass Sorting, Comingled Container Storage and Customer Recyclable Areas	• The green waste and vactor truck wash area operations are conducted inside the transfer station/ tipping floor building. • Vactor wash area is bermed and connected to sanitary sewer. • Customer recyclable area is under canopy structure and a berm is installed to prevent run-on. Large absorbent sheets are placed under bins to capture residual liquids. • Large absorbent sheets are placed under the garbage trucks at the Ecology Center to capture leaks and spills.	Yes	Trench drains at the construction debris area and valley gutters at the glass sorting and comingled container storage areas collect stormwater into holding tanks for discharge to sanitary sewer after 24 hours of dry weather. Discharge to sanitary sewer is not allowed during rain per EBMUD permit.

Minimum BMP Requirement (Reference to Section in General Permit)	Area(s) Implemented	Site Specific BMP Description	Does Minimum or Alternate BMP Reflect Best Industry Practice? (Yes/No)	Actions Performed in lieu of BMP (Requirement from Section X.H.4.c)
Contain all stored non-solid industrial materials or wastes that can be transported or dispersed by the wind or contact with storm water (Section X.H.1.d.ii).	Transfer Station/ Tipping floor, Construction Debris Receiving Area, Equipment Maintenance Building, Paper Recycling Warehouse, Glass Bin Storage Area, Universal Waste,	• Materials noted in Section X.H.1.a.v are containerized as appropriate. • Dust control is performed at the transfer station/tipping floor and construction debris receiving area. • Materials are stored indoors or an appropriate structure/container at the transfer station/tipping floor, equipment maintenance building, paper recycling warehouse, universal waste	Yes	Trench drains at the construction debris area and a valley gutter at the glass sorting area collect stormwater into a holding tank for discharge to sanitary sewer after 24 hours of dry weather. Discharge to sanitary sewer is not allowed during rain per EBMUD permit.
Cover industrial waste disposal containers and industrial material storage containers that contain industrial materials when not in use (Section X.H.1.d.iii).	Used Oil Depot Equipment Maintenance Building, Universal and Electronic Waste, Ecology Center Cargo Bin, Construction Debris, Customer Recyclable, Glass Sorting and Comingle Container Storage Areas	• Used Oil Depot is covered with a roof. • Universal Waste stored in shed. • Electronic Waste stored in cargo bin. • Greases and fluids used for equipment maintenance stored in containers in Equipment Maintenance Building • Used truck fluids stored in Ecology Center cargo bin. • Canopy structure at customer recyclable area	Yes	Stockpiled construction debris, glass sorting and comingle container areas are too large to cover. Instead trenches and valley gutters have been installed to capture stormwater or spills into stormwater holding tanks. Stormwater from the holding tanks are discharged to sanitary sewer after 24 hours of dry weather. Discharge to sanitary sewer is not allowed during rain per EBMUD permit.
Divert run-on and storm water generate from within the facility away from all stockpiled materials (Section X.H.1.d.iv).	Customer Recyclable Area, Construction Debris, Glass Sorting and Comingle Container Storage Areas	• Berm has been installed to prevent run-on of stormwater onto the customer recyclable area.	Yes	Stockpiled construction debris, glass sorting and comingle container areas are too large to cover. Instead trenches and valley gutters have been installed to capture stormwater or spills into stormwater holding tanks to prevent run-on to other areas of the Transfer Station, Ecology Center and Recycling Center. Stormwater from the holding tanks are discharged to sanitary sewer after 24 hours of dry weather. Discharge to sanitary sewer is not allowed during rain per EBMUD permit.
Clean all spills of industrial materials or wastes that occur during handling in accordance with the spill response procedures (Section X.H.1.d.v).	Use Oil Depot, Hazardous Waste Storage, Equipment Maintenance Building, Customer Recyclable Area, Construction Debris, Comingled Container Storage, Stormwater Holding Tanks and Associated Equipment	• Spill or leak prevention response procedures are located at the Facility. General procedures are included in Section F.2 Item 1 of this SWPPP. • Trench drains and Valley gutter drains installed at construction debris, comingled container storage and glass sorting areas to capture spills and stormwater into holding tanks. • To avoid spills/overflow, stormwater in holding tanks are inspected and discharged to sanitary sewer during dry days after rain events to ensure adequate freeboard for the next rain event(s) in addition to weather monitoring. Stored stormwater is discharged after 24 hours of dry weather. Discharge to sanitary sewer is not allowed during rain per EBMUD permit. Stormwater discharge logs are kept at the TS and CCC.	Yes	Not Applicable
Observe and clean as appropriate, any outdoor material or waste handling equipment or containers that can be contaminated by contact with industrial materials or wastes (Section X.H.1.d.vi).	Used Oil Depot, Hazardous Waste Storage, Universal Waste, Vactor Truck Wash Area, Stormwater Holding Tanks and Associated Equipment	• Employees are trained to monitor their areas for equipment that may have spills or leaks. • Vactor truck wash area is contained with berms and discharges to sanitary sewer. • Inspections are performed in accordance with the BMP Summary Table (Section L) and MIP (Section M).	Yes	Not Applicable

Minimum BMP Requirement (Reference to Section in General Permit)	Area(s) Implemented	Site Specific BMP Description	Does Minimum or Alternate BMP Reflect Best Industry Practice? (Yes/No)	Actions Performed in lieu of BMP (Requirement from Section X.H.4.c)
Implement effective wind erosion controls for areas listed in SWPPP Section F.8 (Section X.H.1.e.i).	Not Applicable. No erodible areas were identified in Section F.8.	• Not Applicable	Not Applicable	Not Applicable
Provide effective stabilization for inactive areas, finished slopes, and other erodible areas prior to forecast storm events (Section X.H.1.e.ii).	Not Applicable. No inactive areas, finished slopes, or erodible areas were identified at the site.	• Not Applicable	Not Applicable	Not Applicable
Maintain effective perimeter controls and stabilize all site entrances and exits to sufficiently control discharges of erodible materials from discharging or being tracked off the site (Section X. H.1.e.iii).	Entire Facility perimeter, although the majority of the facility is paved. Only a small portion of the northern Facility (Catchment Area A) has erodible surfaces, however this area is flat and has low traffic activity and is used primarily for storage.	• The northern Facility perimeter has trench drains (TD-1, TD-2 and TD-2A) that are lined with filter fabric, hydrocarbon wattles that discharge storm water to treatment vaults. • The eastern perimeter of the facility is graded away from the perimeter. • Where trench drains are not installed, Silt Socks and hydrocarbon absorbent booms are used to trap erodible materials off the site.	Yes	Not Applicable
Divert run-on and storm water generated from within the facility away from all erodible materials (Section X.H.1.e.iv).	Not Applicable	• Not Applicable	Not Applicable	Not Applicable
If sediment basins are implemented, ensure compliance with the design storm standards (Section X.H.1.e.v).	No sediment basins at the Facility	• Not Applicable	Not Applicable	Not Applicable

H. EMPLOYEE TRAINING PROGRAM (GENERAL PERMIT SECTION X.H.F)

Presented below is the Facility's training program which demonstrates compliance with the minimum BMP requirements listed in General Permit Section X.H.f. The table below identifies the Facility personnel required for the training and provides a general description of the trainings provided to personnel. Completed training logs/training materials are in Exhibit B.

Facility Title	Responsibilities and Duties	Type of Training	Source of Appropriate Training Manuals and Materials	Training Schedule	Describe how training is documented
Pollution Prevention Team	• BMP Implementation • BMP effectiveness evaluation • Visual Observations • Monitoring Activities	Staff Meetings	• Presentation materials developed internally and/or by consultant	Annual Training	Documents for all completed training classes for personnel are maintained with the hard copy SWPPP files in Appendix B. An example training log is included within the electronic SWPPP in Appendix B.
Operations Manager at the TS	• Oversee various employee job descriptions, including implementing BMPs to minimize materials from contacting stormwater • Maintaining BMPs that filter stormwater, record keeping • Sweeping and trash pickup program, • Implementing minimum BMPs as described in the SWPPP	Annual training and tailgates	• Environmental Compliance Specialist develops training materials.	Routine and new employees participate in the BMP training program within thirty (30) days of their hiring date or as soon as practicable.	Training records are kept with the supervisors and with the Environmental Compliance Specialist.

Facility Title	Responsibilities and Duties	Type of Training	Source of Appropriate Training Manuals and Materials	Training Schedule	Describe how training is documented
Facility staff responsible for BMPs, material handling, and spill cleanup	• BMP Implementation • Material handling • Spill cleanup • Completing BMP inspection forms	Annual training and tailgates	• Environmental Compliance Specialist develops training materials.	Routine and new employees participate in the BMP training program within thirty (30) days of their hiring date or as soon as practicable.	Training records are kept with the supervisors and with the Environmental Compliance Specialist.

I. QUALITY ASSURANCE AND RECORD KEEPING (GENERAL PERMIT SECTION X.H.G)

Presented below is the Facility's Quality Assurance and Record Keeping Policies. For reference, the table includes the minimum BMP requirements.

Minimum BMP Requirement (Reference to Section in General Permit)	Facility Specific Quality Assurance and Record Keeping Policy
Develop and implement management procedures to ensure that appropriate staff implements all elements of the SWPPP, including the MIP (Section X.H.1.g.i).	The Facility implements a training program for the pollution prevention team to implement the SWPPP. Additional trainings are described in Section H. Training documents are kept with the SWPPP.
Develop a method of tracking and recording the implementation of BMPs identified in the SWPPP (Section X.H.1.g.ii).	Monthly visual observation and sampling event visual observation forms are completed as required. These forms document BMP deficiencies and actions taken to correct. Inspection BMP forms are completed at different frequencies (i.e. prior to rain events, annually, monthly, weekly and daily). Completed facility inspection forms are presented in Exhibit C.
Maintain the BMP Implementation records, training records, and records related to any spills and clean-up related response activities for a minimum of five (5) years (Section X.H.1.g.iii).	The required records are kept at City's Corporation Yard with the SWPPP files. Records will be maintained for a minimum of five (5) years

J. ADVANCED BMPS (GENERAL PERMIT SECTION X.H.2)

Advanced BMPs include Exposure Minimization, Stormwater Containment and Discharge Reduction, Treatment Control, and Other Advanced BMPs. Exposure minimization BMPs include storm resistant shelters to prevent the contact of storm water with industrial activities and material. Stormwater Containment and Discharge Reduction BMPs include BMPs that divert, reuse, contain, or reduce the volume of storm water runoff. Treatment control BMPs include one or more mechanical, chemical, biologic, physical, or any other treatment process technology and is sized to meet the treatment control design storm standard. Advanced BMPs, if any, are summarized below. Advanced BMPs are not required. Advanced BMPs may be evaluated and implemented during Exceedance Response Action (ERA) plan if necessary.

Advanced BMPs have been installed at the Transfer Station and Recycling Center described in the tables below. Figure 4 shows the flow process diagram of Treatment Control, Stormwater Containment and Discharge Reduction BMPs at the Transfer Station and Recycling Center.

J.1 EXPOSURE MINIMIZATION (SECTION X.H.2.B.I)

Describe Advanced BMPs	Area(s) Implemented	Associated Industrial Activity/Material
Permanent overhang structures, roofs or sheds and Hazardous Materials Storage Structures	Transfer Station /Tipping Floor, Used Oil Depot, Mattress Area, Paper Recycling Warehouse, Universal and Electronic Waste, Hazardous Materials Storage, Equipment Maintenance Building. Recycling Center Customer Recyclable Area	Refuse, waste oil, paper recycling, container recycling and recycling of televisions, computers, stereos, fluorescent light bulbs, equipment maintenance

J.2 STORM WATER CONTAINMENT AND DISCHARGE REDUCTION BMPS (SECTION X.H.2.B.II)

Describe Advanced BMPs	Area(s) Implemented	Associated Industrial Activity/Material
Stormwater from source areas (Catchment Area B at the Transfer Station) drains into a trench drains TD-3 and TD-4 which flows into one 21,000-gallon tank with a 21,000-gallon backup tank. Catchment Areas E and F glass bin storage and comingled storage areas at Recycling Center) drains valley gutters with sump pumps and collected in two (2) 4,000 gallon storage tanks for discharge into EBMUD sanitary sewer. DP-1 discharge point will only receive stormwater from Catchment Area A bin storage area.	Transfer Station Catchment Area B and Recycling Center glass bin and comingled storage areas Catchment Areas E and F.	Recycling of green waste, general construction debris, recycled glass and plastic containers

The stormwater containment and discharge reduction BMPs for the construction debris area, Catchment Area B, glass sorting and comingle container storage areas permit from EBMUD is located in Appendix C.

J.3 TREATMENT CONTROL BMPS (SECTION X.H.2.B.III)

Describe Advanced BMPs	Area(s) Implemented	Associated Industrial Activity/Material
Stormwater Treatment Vaults (Contech Filters) DP-1A, DP-2A and DP-3A, see Appendix D for description and specifications)	Catchment Area D (Vehicle Parking Areas), Catchment Areas A and D (Bin Storage Areas), Part of Catchment Area C (Green Waste Area/Transfer Station / Tipping Floor) Catchment Area C (Fueling	Vehicle and Container Washing, Vehicle Traffic, Waste Drop-Off, Material Tracking from Transfer Station/Tipping Floor

	Area, Vehicle Maintenance Building, Wash Rack, Access Roads)	

J.4 OTHER ADVANCED BMPS (SECTION X.H.2.B.IV)

Describe Advanced BMPs	Area(s) Implemented	Associated Industrial Activity/Material
Not used	Not used	Not used

K. TEMPORARY SUSPENSION OF ACTIVITIES (GENERAL PERMIT SECTION X.H.3)

Presented below are the BMPs associated with temporarily suspending activities for ten (10) or more consecutive calendar days during a reporting year.

K.1 DESCRIBE INDUSTRIAL ACTIVITIES TEMPORARILY SUSPENDED

Describe Reason for Temporary Suspension	List Facility Stabilization BMPs	Area(s) Implemented	Date Facility is Fully Stabilized	Projected Date when Industrial Activities will Resume
Not applicable at this time	Not applicable at this time	Not applicable at this time	Not applicable at this time	Not applicable at this time

K.2 INCLUDE JUSTIFICATION FOR WHY MONITORING IS INFEASIBLE.

Not applicable at this time.

L. BMP SUMMARY TABLE (GENERAL PERMIT SECTION X.H.4 AND X.H.5)

Presented below is a description of all storm water BMPs implemented at the Facility for each potential pollutant source.

Potential Pollution Source	Potential Pollutant(s) Reduced by BMP (Section X.H.4.a.i)	BMPs	Frequency of BMP implementation (Section X.H.4.a.ii)	Location of BMP (Section X.H.4.a.iii)	Procedures/Maintenance Instructions for BMP Implementation (Section X.H.4.a.v)	Equipment and Tools for BMP Implementation (Section X.H.4.a.iv)	Frequency for BMP Inspection (Section X.H.4.a.vii)
Transfer Station / Tipping Floor, Vactor Wash, Mattress Areas	Suspended Solids, Oil and Grease, Chemical Oxygen Demand, metals, pH	1. Spill response materials are located nearby within the hazardous material locker. Shovels are and brooms are located throughout the site. 2. Routine inspections are performed by employees. If a spill or leak is observed, it is cleaned up as soon as practicable. 3. Misters are utilized inside the building for dust suppression inside the transfer station which a major source of fine soil particulates that may spread to other areas of the site. 4. Trucks are washed daily to minimize tracking. 5. A sweeping program is implemented twice daily by the mechanical sweeper. Additionally, two industrial (Billy Goat) vacuums are used in areas where the mechanical sweeper cannot access. 6. Employees responsible for spill response and BMP implementation are trained (refer to Section H for additional details). 7. The Facility will either store under cover or remove from the Facility all abandoned or broken equipment or materials no longer considered for future use that have the potential to serve as the source for pollutant loading. 8. Green waste moved indoors to Tipping Floor and construction debris moved outdoors. 9. Stormwater from source areas (Catchment Area B will drain into trench drains and collected in a 21,000 gallon storage tank with additional 21,000 gallon storage tank for discharge into EBMUD sanitary sewer. 10. Trench drain TD-3 in the vicinity of catch basin CB-3 are protected with sediment filter fabric and installation of a series of Filtrex Siltsoxx in the flow path at CB-3 and CB-3A prior to treatment at the Contech Filter at DP-3A. Additional Filtrex Siltsoxx and oil absorbent socks will be installed around the catch basins CB-3 and CB-3A, and they will be maintained on a weekly basis during dry weather and as-needed during wet weather. 11. New vendor (SWIMS) for stormwater maintenance of the trench drains, catch	BMP items 1 through 20 are implemented daily during operational hours or are ongoing. Additional sweeping is conducted as needed based on observations. Trainings are completed at least annually. Daily trash pickup. Dust control misters operate daily during business hours. Cover active dumpsters, bins, material storage containers at end of work day and prior to rain events. Monthly and prior to rain events hand sweep areas not accessible by sweeper. Hand operated portable industrial (Billy Goat) vacuums used to aide in sweeping program. Sweeping Catchment Areas B and C twice daily with daily logs. Trench drain, catch basin collects stormwater during rain events and filtered through Contech filter, weekly cleaning if necessary. Vactor rinsate discharge to sanitary sewer pending daily usage.	Catchment Areas B and C. Spill response materials are located throughout the site as described in the BMP Section of this table. Filter fabric, and or sediment Filtrex Siltsoxx, hydrocarbon wattles are implemented at catch basins (CB-3, CB-3A, and trench drains (TD-3) for Catchment Areas C and B, respectively. Stormwater flowing into CB-3 would be treated in the Contech Filter.	Spill response procedures Operational & Maintenance Manuals are used for select equipment. This SWPPP provides details for BMP implementation.	Equipment used for spill response may include absorbent pads, granular absorbent, shovels and brooms. Automated sweepers. Water hose for dust suppression. Sediment filter fabric, sediment/hydrocarbon/ wattles at nearby catch basins and trench drains Two trench drains, filter fabric, stormwater holding tank, sewage pump and associated piping used to collect stormwater for discharge to EBMUD sanitary sewer.	Daily inspections occur for operational equipment. Monthly inspections are documented and performed in accordance with the MIP in this SWPPP. Daily trash pickup throughout facility and boundaries. Weekly and annual inspections of catch basins, trench drain and approximately every two months for the Contech filter in vicinity. Monthly and prior to rain event inspections of hand swept areas not accessible by sweeper. Misters inspected daily for working condition. Daily and prior to rain event active dumpster, bin and material storage coverage. Daily sweeping inspections and logs. Observations of vactor wash area during washing activities. Post rain inspections are performed for the stormwater holding tank for discharge to sanitary sewer during dry days, Discharges to occur 24 hours after rain event, no discharges during rain events per EBMUD permit, discharge logs. Annual pavement inspection.

Potential Pollution Source	Potential Pollutant(s) Reduced by BMP (Section X.H.4.a.i)	BMPs	Frequency of BMP implementation (Section X.H.4.a.ii)	Location of BMP (Section X.H.4.a.iii)	Procedures/Maintenance Instructions for BMP Implementation (Section X.H.4.a.v)	Equipment and Tools for BMP Implementation (Section X.H.4.a.iv)	Frequency for BMP Inspection (Section X.H.4.a.vii)
		basins, and Contech Filters. Catch basins, vaults and trench drains will be maintained on a weekly basis and identified problem areas will be addressed with more frequency if necessary. Catch basin and trench drain filter change outs will be performed as a result of visual inspections 12. Contech Filter (DP-3A). 13. Trash pickup. 14. Cover active dumpsters, bins, materials storage containers at end of work day. 15. Hand sweep vacuum areas not accessible by sweeper. 16. Vactor material wash water area enclosed in berm and connected to sanitary sewer and under cover. 17. Filtrex Siltsoxx and oil absorbent socks will be installed along the fence line along 2nd Street and associated discharge point DP-4. 18. No significant repairs are performed that involve potential contamination to vehicles or movable equipment at the Facility in outdoor, uncovered areas from which stormwater discharges during rainfall events. 19. Pavement cleaning include pressure washing with full recovery and regenerative air sweeping to solids that remain after the mechanical sweeper has passed, annually as necessary. 20. Documented inspections are performed daily, prior to rain events, weekly, monthly and annually, including monthly observation as part of the General Permit.					
Equipment/Vehicle Maintenance Building	Suspended Solids, Oil and Grease, metals, solvents, pH	1. Absorbent Materials are located in the equipment maintenance building. Additional supplies may be found in the hazardous materials locker. 2. Routine inspections are performed by employees. If a spill or leak is observed, it is cleaned up as soon as practicable. 3. Industrial materials including oil, grease, solvents, transmission fluids, and antifreeze are stored indoors. 4. Above ground tanks with petroleum products or anti-freeze are stored with secondary containment. 5. Employees responsible for spill response and BMP implementation are trained (refer to Section H for additional details). 6. Catch basins CB-3, CB-3A, and CB-2 and trench drains TD-2 and TD-2A in the vicinity are protected with sediment filter	BMP items 1 through 14 are implemented daily during operational hours or are ongoing. Trainings are completed at least annually. Daily trash pickup. Monthly and prior to rain events hand sweep areas not accessible by sweeper. Sweeping Catchment Area C twice daily with daily logs. Trench drains and catch basins collects stormwater during rain events and filtered through Contech filter, weekly cleaning if necessary.	Catchment Area C Absorbent materials and spill kits are located in the building at the Transfer Station. Spill kits are located in all trucks. Filter fabric, and or sediment, hydrocarbon zeolite wattles are implemented at catch basins (CB-2 and CB-3, CB-3A, and trench drains (TD-2 and TD-2A) for Catchment Area C.	Spill response procedures Operational & Maintenance Manuals are used for select equipment. This SWPPP provides details for BMP implementation.	Equipment used for spill response may include absorbent pads, granular absorbent, shovels and brooms. Automated sweepers. Water hose for dust suppression.	Monthly inspections are documented and performed in accordance with the MIP in this SWPPP. Daily trash pickup throughout facility and boundaries. Daily sweeping inspections and logs. Weekly and annual inspections of catch basins, trench drains and approximately every two months for the Contech filter in vicinity. Monthly and prior to rain events inspections of hand swept areas not accessible by sweeper. Annual pavement inspection.

Potential Pollution Source	Potential Pollutant(s) Reduced by BMP (Section X.H.4.a.i)	BMPs	Frequency of BMP implementation (Section X.H.4.a.ii)	Location of BMP (Section X.H.4.a.iii)	Procedures/Maintenance Instructions for BMP Implementation (Section X.H.4.a.v)	Equipment and Tools for BMP Implementation (Section X.H.4.a.iv)	Frequency for BMP Inspection (Section X.H.4.a.vii)
		fabric and additional Filtrex Siltsoxx and oil absorbent socks will be installed around the catch basins CB-2 CB-3, and CB-3A and they will be maintained on a weekly basis during dry weather and as-needed during wet weather. New vendor (SWIMS) for stormwater maintenance of the trench drains, catch basins, and Contech Filters. Catch basins, vaults and trench drains will be maintained on a weekly basis and identified problem areas will be addressed with more frequency if necessary. Catch basin and trench drain filter change outs will be performed as a result of visual inspections. 7. A sweeping program is implemented twice daily by the mechanical sweeper. Additionally, two industrial (Billy Goat) vacuums are used in areas where the mechanical sweeper cannot access. 8. Contech filters at DP-2A and DP-3A. 9. Trash pickup. 10. Hand sweep. 11. The Facility will either store under cover or remove from the Facility all abandoned or broken equipment or materials no longer considered for future use that have the potential to serve as the source for pollutant loading. 12. No significant repairs are performed that involve potential contamination to vehicles or movable equipment at the Facility in outdoor, uncovered areas from which stormwater discharges during rainfall events. 13. Pavement cleaning include pressure washing with full recovery and regenerative air sweeping to solids that remain after the mechanical sweeper has passed, annually as necessary. 14. Documented inspections are performed daily, prior to rain events, weekly, monthly and annually, including monthly observation as part of the General Permit.					
Construction Debris Area	Suspended Solids, Oil and Grease, metals, Chemical Oxygen Demand, pH	1. Spill response materials are located nearby within the hazardous material locker. Shovels and brooms are located throughout the site. 2. Routine inspections are performed by employees. If a spill or leak is observed, it is cleaned up as soon as practicable. 3. A sweeping program is implemented twice daily by the mechanical sweeper. Additionally, two industrial (Billy Goat)	BMP items 1 through 16 are implemented daily during operational hours or are ongoing. Additional sweeping is conducted as needed based on observations. Trainings are completed at least annually. Daily trash pickup.	Catchment Area B. Spill response materials are located throughout the site as described in the BMP Section of this table at the Transfer Station. Filter fabric, and or sediment, hydrocarbon zeolite wattles are implemented at the Trench Drain TD-3 and TD-4. Any	Spill response procedures Operational & Maintenance Manuals are used for select equipment. This SWPPP provides details for BMP implementation.	Equipment used for spill response may include absorbent pads, granular absorbent, shovels and brooms. Automated sweepers. Water hose for dust suppression. Two trench drains, filter fabric (minimum), stormwater holding tank, sewage pump and associated piping used to	Daily inspections occur for operational equipment. Monthly inspections are documented and performed in accordance with the MIP in this SWPPP. Daily trash pickup throughout facility and boundaries.

Potential Pollution Source	Potential Pollutant(s) Reduced by BMP (Section X.H.4.a.i)	BMPs	Frequency of BMP implementation (Section X.H.4.a.ii)	Location of BMP (Section X.H.4.a.iii)	Procedures/Maintenance Instructions for BMP Implementation (Section X.H.4.a.v)	Equipment and Tools for BMP Implementation (Section X.H.4.a.iv)	Frequency for BMP Inspection (Section X.H.4.a.vii)
		vacuums are used in areas where the mechanical sweeper cannot access. 4. Employees responsible for spill response and BMP implementation are trained (refer to Section H for additional details). 5. Prior to rain events, the area and trench drain are inspected and cleaned if necessary. 6. Stormwater from the construction debris area flows into trench drain TD-4. There is a manhole near the construction area with two sluice gates tha direct flow to the sanitary sewer or the storm drain. The sluice gate to sanitary sewer is closed to direct stormwater to the storm drain (blue handle up, black handle down) for discharge into a 21,000 gallon stormwater holding tank and additional 21,000 gallon backup tank for discharge to EBMUD sanitary sewer from Catchment Area B. 7. New vendor (SWIMS.) for stormwater maintenance of the trench drains, catch basins, and Contech Filters. Catch basins, vaults and trench drains will be maintained on a weekly basis and identified problem areas will be addressed with more frequency if necessary. Catch basin and trench drain filter change outs will be performed as a result of visual inspections. 8. Green waste moved indoors to Tipping Floor and construction debris moved outdoors. 9. Trench drains (TD-3 and TD-4) in the vicinity are protected with sediment filter fabric. 10. Trash pickup. 11. Cover active dumpsters, bins, materials storage containers at end of work day. 12. Hand sweep vacuum areas not accessible by sweeper. 13. No significant repairs are performed that involve potential contamination to vehicles or movable equipment at the Facility in outdoor, uncovered areas from which stormwater discharges during rainfall events. 14. The Facility will either store under cover or remove from the Facility all abandoned or broken equipment or materials no longer considered for future use that have the potential to serve as the source for pollutant loading. 15. Pavement cleaning include pressure washing with full recovery and	Dust control misters operate daily during business hours. Cover active dumpsters, bins, material storage containers at end of work day and prior to rain events. Monthly and prior to rain events hand sweep areas not accessible by sweeper. Trench drain collects stormwater during rain events, weekly cleaning if necessary. Sweeping Catchment Area B twice daily.	tracking of materials would be intercepted at Catchment Area C catch basins (CB-2, CB-3 and CB-3A, and trench drains (TD-2 and TD-2A) that flow through Contech stormwater treatment vaults at DP-2A and DP-3A.		collect stormwater and discharge to EBMUD sanitary sewer.	Weekly and annual inspections of catch basins and trench drains in vicinity. Monthly and prior to rain event inspections of hand swept areas not accessible by sweeper. Daily dust control during windy conditions or as necessary. Daily sweeping inspections and logs. Daily and prior to rain events active dumpster, bin and material storage coverage Post rain inspections are performed for the stormwater holding tank for discharge to sanitary sewer during dry days, Discharges to occur 2 days after rain event per EBMUD permit with discharge logs. Annual pavement inspection.

Potential Pollution Source	Potential Pollutant(s) Reduced by BMP (Section X.H.4.a.i)	BMPs	Frequency of BMP implementation (Section X.H.4.a.ii)	Location of BMP (Section X.H.4.a.iii)	Procedures/Maintenance Instructions for BMP Implementation (Section X.H.4.a.v)	Equipment and Tools for BMP Implementation (Section X.H.4.a.iv)	Frequency for BMP Inspection (Section X.H.4.a.vii)
		regenerative air sweeping to solids that remain after the mechanical sweeper has passed, annually as necessary. 16. Documented inspections are performed daily, prior to rain events, weekly, monthly and annually, including monthly observation as part of the General Permit.					
Fueling Area	Suspended Solids, Oil and Grease,	1. Spill kits are located nearby. 2. Overflow protection devices are utilized on the tank system. 3. Signage reminds employees to not top off. 4. Routine inspections are performed by employees. If a spill or leak is observed, it is cleaned up as soon as practicable. 5. A sweeping program is implemented twice daily by the mechanical sweeper. Additionally, two industrial (Billy Goat) vacuums are used in areas where the mechanical sweeper cannot access. 6. Trash pickup. 7. Dust suppression. 8. Contech Filter at DP-2A. 9. Trench drains TD-2 and TD-2A with sediment filter and additional Filtrex Siltsoxx and oil absorbent socks will be installed around the catch basins CB-2, and they will be maintained on a weekly basis during dry weather and as-needed during wet weather. 10. New vendor (SWIMS.) for stormwater maintenance of the trench drains, catch basins and Contech Filters. Catch basins, vaults and trench drains will be maintained on a weekly basis and identified problem areas will be addressed with more frequency if necessary. Catch basin and trench drain filter change outs will be performed as a result of visual inspections 11. No significant repairs are performed that involve potential contamination to vehicles or movable equipment at the Facility in outdoor, uncovered areas from which stormwater discharges during rainfall events. 12. Pavement cleaning include pressure washing with full recovery and regenerative air sweeping to solids that remain after the mechanical sweeper has passed, annually as necessary. 13. Employees responsible for spill response and BMP implementation are trained (refer to Section H for additional details). 14. Documented inspections are performed daily, prior to rain events, weekly, monthly	BMP items 1 through 14 are implemented daily during operational hours or are ongoing. Trainings are completed at least annually. Daily trash pickup. Dust suppression on as needed basis. Sweeping Catchment Area C twice daily. Trench drains and catch basin collects stormwater during rain events and filtered through Contech filter, weekly cleaning if necessary.	Catchment Area C. Spill response materials are located on the island and within the equipment maintenance building at the Transfer Station.	Spill response procedures Operational & Maintenance Manuals are used for select equipment. This SWPPP provides details for BMP implementation.	Equipment used for spill response may include absorbent pads, granular absorbent, shovels and brooms. Automated sweepers. Water hose for dust suppression.	Daily inspections occur for operational equipment. Daily trash pickup throughout facility and boundaries. Daily dust control during windy conditions or as necessary. Daily sweeping inspections and logs. Weekly and annual inspections of catch basins, trench drains and Contech filters in vicinity. Monthly inspections are documented and performed in accordance with the MIP in this SWPPP. Annual pavement inspection.

Potential Pollution Source	Potential Pollutant(s) Reduced by BMP (Section X.H.4.a.i)	BMPs	Frequency of BMP implementation (Section X.H.4.a.ii)	Location of BMP (Section X.H.4.a.iii)	Procedures/Maintenance Instructions for BMP Implementation (Section X.H.4.a.v)	Equipment and Tools for BMP Implementation (Section X.H.4.a.iv)	Frequency for BMP Inspection (Section X.H.4.a.vii)
		and annually, including monthly observation as part of the General Permit.					
Wash Rack	Suspended Solids, Oil and Grease, Solvents, pH	1. Spill kits are located nearby. 2. Routine inspections are performed by employees. If a spill or leak is observed, it is cleaned up as soon as practicable. 3. Employees responsible for spill response and BMP implementation re trained (refer to Section H for additional details). 4. The manhole in the wash rack has gate valves to switch between storm water and sanitary sewer. During rain events the gate valve is turned to divert flow to the storm drain after cleaning the wash rack and removing debris from the drain. 5. Trash pickup. 6. A sweeping program is implemented twice daily by the mechanical sweeper. Additionally, two industrial (Billy Goat) vacuums are used in areas where the mechanical sweeper cannot access. 7. The nearby catch basin (CB-3 and CB-3A) has a series of Filtrex Siltsoxx, which will be used in conjunction with oil absorbent socks along the used tire storage area to capture the sediment that is moving from Catchment Area B to C. Additional Filtrex Siltsoxx and oil absorbent socks will be installed around the catch basins CB-3, and they will be maintained on a weekly basis during dry weather and as-needed during wet weather. 8. New vendor (SWIMS.) for stormwater maintenance of the trench drains, catch basins and Contech Filters. Catch basins, vaults and trench drains will be maintained on a weekly basis and identified problem areas will be addressed with more frequency if necessary. Catch basin and trench drain filter change outs will be performed as a result of visual inspections. 9. Relocating the parking area for garbage trucks from Catchment Area C to Catchment Area B to minimize pollutants from entering CB-3 and CB-3A. 10. Dust suppression. 11. Pavement cleaning include pressure washing with full recovery and regenerative air sweeping to solids that remain after the mechanical sweeper has passed, annually as necessary. 12. Documented inspections are performed daily, prior to rain events, weekly, monthly	BMP items 1 through 12 are implemented daily during operational hours or are ongoing. Trainings are completed at least annually. Daily trash pickup. Dust suppression on as needed basis. Sweeping Catchment Area C twice daily. CB-3 and CB-3A catch basin collects stormwater during rain events, weekly cleaning if necessary. Monthly and prior to rain events hand swept areas not accessible by sweeper.	Catchment Area C. Spill response materials are located on the island and within the equipment maintenance building at the Transfer Station. .	Spill response procedures Operational & Maintenance Manuals are used for select equipment. This SWPPP provides details for BMP implementation.	Equipment used for spill response may include absorbent pads, granular absorbent, shovels and brooms. Automated sweepers. Water hose for dust suppression.	Daily inspections occur for operational equipment. Daily trash pickup throughout facility and boundaries. Weekly and annual inspections of catch basin in vicinity. Daily dust control during windy conditions or as necessary. Daily sweeping inspections and logs. Monthly and prior to rain event inspections of hand swept areas not accessible by sweeper. Annual pavement inspection. Monthly inspections are documented and performed in accordance with the MIP in this SWPPP.

Potential Pollution Source	Potential Pollutant(s) Reduced by BMP (Section X.H.4.a.i)	BMPs	Frequency of BMP implementation (Section X.H.4.a.ii)	Location of BMP (Section X.H.4.a.iii)	Procedures/Maintenance Instructions for BMP Implementation (Section X.H.4.a.v)	Equipment and Tools for BMP Implementation (Section X.H.4.a.iv)	Frequency for BMP Inspection (Section X.H.4.a.vii)
		and annually, including monthly observation as part of the General Permit.					
Used Oil Depot, Hazardous Waste Storage, Universal Waste	Suspended Solids, Oil and Grease, Metals	1. Spill kits are located nearby. 2. Routine inspections are performed by employees. If a spill or leak is observed, it is cleaned up as soon as practicable. 3. Trash pickup. 4. A sweeping program is implemented twice daily by the mechanical sweeper. Additionally, two industrial (Billy Goat) vacuums are used in areas where the mechanical sweeper cannot access. 5. Dust suppression. 6. The Facility will either store under cover or remove from the Facility all abandoned or broken equipment or materials no longer considered for future use that have the potential to serve as the source for pollutant loading. 7. Pavement cleaning include pressure washing with full recovery and regenerative air sweeping to solids that remain after the mechanical sweeper has passed, annually as necessary. 8. Employees responsible for spill response and BMP implementation are trained (refer to Section H for additional details). 9. Documented inspections are performed daily and monthly as part of monthly observations of the General Permit.	BMP items 1 through 9 are implemented daily during operational hours or are ongoing. Daily trash pickup. Dust suppression on as needed basis. Sweeping Catchment Area C twice daily. Monthly and prior to rain events hand and swept areas not accessible by sweeper. Trainings are completed at least annually.	Catchment Area C. Spill response materials are located on the island and within the equipment maintenance building at the Transfer Station.	Spill response procedures Operational & Maintenance Manuals are used for select equipment. This SWPPP provides details for BMP implementation.	Equipment used for spill response may include absorbent pads, granular absorbent, shovels and brooms. Automated sweepers Water hose for dust suppression.	Daily inspections occur for operational equipment. Daily trash pickup throughout facility and boundaries. Daily dust control during windy conditions or as necessary. Daily sweeping inspections and logs. Monthly and prior to rain events inspections of hand swept areas not accessible by sweeper. Annual pavement inspection. Monthly inspections are documented and performed in accordance with the MIP in this SWPPP.
Truck Parking, General Waste and Electronic Waste Storage	Oil and Grease, Suspended Solids	1. Spill kits are located nearby. 2. Routine inspections are performed by employees. If a spill or leak is observed, it is cleaned up as soon as practicable. 3. Trash pickup. 4. A sweeping program is implemented twice daily by the mechanical sweeper. Additionally, two industrial (Billy Goat) vacuums are used in areas where the mechanical sweeper cannot access. 5. Stormwater from Catchment Area B will drain into trench drain TD-3 and collected in a 21,000-gallon storage tank with another 21,000 gallon backup tank for discharge into EBMUD sanitary sewer after 24 hours of dry weather before discharge. 6. New vendor (SWIMS) for stormwater maintenance of the trench drains will be maintained on a weekly basis and identified problem areas will be addressed with more frequency if necessary. Trench drain filter change outs will be performed as a result of visual inspections	BMP items 1 through 15 are implemented daily during operational hours or are ongoing. Daily trash pickup. Cover active dumpsters, bins, material storage containers at end of work day and prior to rain events. Sweeping Catchment Area B twice daily. Monthly and prior to rain events hand sweep areas not accessible by sweeper. As needed dust control. Trench drain collects stormwater during rain events, weekly cleaning if necessary. Trainings are completed at least annually.	Catchment Area B. Spill response materials are located on the island and within the equipment maintenance building at the Transfer Station. .	Spill response procedures Operational & Maintenance Manuals are used for select equipment. This SWPPP provides details for BMP implementation.	Equipment used for spill response may include absorbent pads, granular absorbent, shovels and brooms. Automated sweepers. Water hose for dust suppression.	Daily inspections occur for operational equipment. Daily trash pickup throughout facility and boundaries. Daily sweeping inspections and logs. Monthly and prior to rain event inspections of hand swept areas not accessible by sweeper. Daily and prior to rain events active dumpster, bin and material storage coverage. Weekly and annual inspections of trench drain in vicinity. Annual pavement inspection. Monthly inspections are documented and performed in accordance with the MIP in this SWPPP.

Potential Pollution Source	Potential Pollutant(s) Reduced by BMP (Section X.H.4.a.i)	BMPs	Frequency of BMP implementation (Section X.H.4.a.ii)	Location of BMP (Section X.H.4.a.iii)	Procedures/Maintenance Instructions for BMP Implementation (Section X.H.4.a.v)	Equipment and Tools for BMP Implementation (Section X.H.4.a.iv)	Frequency for BMP Inspection (Section X.H.4.a.vii)
		7. Cover active dumpsters, bins, materials storage containers at end of work day. 8. Hand sweep vacuum areas not accessible by sweeper. 9. Dust suppression. 10. The Facility will either store under cover or remove from the Facility all abandoned or broken equipment or materials no longer considered for future use that have the potential to serve as the source for pollutant loading. 11. Relocating the vehicles elsewhere on the site to better facilitate sweeping of paved areas when feasible, placing drip pans under equipment stored or parked for a week or longer, weekly inspections for evidence of leaks from such equipment, and prompt clean-up of spills, drips, or leaks from such equipment. 12. No significant repairs are performed that involve potential contamination to vehicles or movable equipment at the Facility in outdoor, uncovered areas from which stormwater discharges during rainfall events. 13. Pavement cleaning include pressure washing with full recovery and regenerative air sweeping to solids that remain after the mechanical sweeper has passed, annually as necessary. 14. Employees responsible for spill response and BMP implementation are trained (refer to Section H for additional details). 15. Documented inspections are performed daily, prior to rain events, weekly, monthly and annually, including monthly observation as part of the General Permit.					
Container/Bin Storage Area and Container Maintenance Building	Suspended Solids, Metals	1. Spill kits are located nearby. 2. Routine inspections are performed by employees. If a spill or leak is observed, it is cleaned up as soon as practicable. 3. Trash pickup. 4. A sweeping program is implemented twice daily by the mechanical sweeper. Additionally, two industrial (Billy Goat) vacuums are used in areas where the mechanical sweeper cannot access. .Cover active dumpsters, bins, materials storage containers at end of work day. 5. Catch basin (CB-1) and trench drain (TD-1) protected with sediment, Filtrex Siltsoxx and hydrocarbon absorbent sock. 6. New vendor (SWIMS) for stormwater maintenance of the trench drains, catch	BMP items 1 through 13 are implemented daily during operational hours or are ongoing. Sweeping around DP-1A, hand sweep areas not accessible by sweeper prior to rain events and monthly. Trench drain and catch basin collects stormwater during rain events and filtered through Contech filter, weekly cleaning if necessary Sweeping large assessable areas Catchment Area A twice daily. Cover active dumpsters, bins, materials storage container at	Catchment Area A. Spill response materials are located on the island and within the equipment maintenance building at the Transfer Station. Catch basin CB-1, trench drain TD-1 and Contech filter at DP-1.	Spill response procedures. Operational & Maintenance Manuals are used for select equipment. This SWPPP provides details for BMP implementation.	Equipment used for spill response may include absorbent pads, granular absorbent, shovels and brooms. Automated sweepers.	Daily inspections occur for operational equipment. Daily trash pickup throughout facility and boundaries. Daily sweeping inspections and logs. Weekly and annual inspections of catch basin and trench drain and Contech filter in vicinity. Monthly and prior to rain event inspections of hand swept areas not accessible by sweeper and TD-1 trench drain for DP-1A discharge point. Daily and prior to rain events active dumpster, bin and material storage coverage.

Potential Pollution Source	Potential Pollutant(s) Reduced by BMP (Section X.H.4.a.i)	BMPs	Frequency of BMP implementation (Section X.H.4.a.ii)	Location of BMP (Section X.H.4.a.iii)	Procedures/Maintenance Instructions for BMP Implementation (Section X.H.4.a.v)	Equipment and Tools for BMP Implementation (Section X.H.4.a.iv)	Frequency for BMP Inspection (Section X.H.4.a.vii)
		basins and Contech Filters. Catch basins, vaults and trench drains will be maintained on a weekly basis and identified problem areas will be addressed with more frequency if necessary 7. Contech filter at DP-1. 8. Hand sweep vacuum areas not accessible by sweeper. 9. Annual sweeping of container/bin storage area. 10. The Facility will either store under cover or remove from the Facility all abandoned or broken equipment or materials no longer considered for future use that have the potential to serve as the source for pollutant loading. 11. Pavement cleaning include pressure washing with full recovery and regenerative air sweeping to solids that remain after the mechanical sweeper has passed. 12. Employees responsible for spill response and BMP implementation re trained (refer to Section H for additional details). 13. Documented inspections are performed daily, prior to rain events, weekly, monthly and annually, including monthly observation as part of the General Permit.	end of work day and prior to rain events.				Annual pavement inspection. Monthly inspections are documented and performed in accordance with the MIP in this SWPPP.
Truck Parking, Container/Bin Storage Area	Suspended Solids, Metals, Oil and Grease	1. Spill kits are located nearby. 2. Routine inspections are performed by employees. If a spill or leak is observed, it is cleaned up as soon as practicable. 3. Trash pickup. 4. A sweeping program is implemented twice daily by the mechanical sweeper. Additionally, two industrial (Billy Goat) vacuums are used in areas where the mechanical sweeper cannot access. 5. Cover active dumpsters, bins, materials storage containers at end of work day. 6. Hand sweep vacuum areas not accessible by sweeper. 7. The Facility will either store under cover or remove from the Facility all abandoned or broken equipment or materials no longer considered for future use that have the potential to serve as the source for pollutant loading. 8. Relocating the vehicles elsewhere on the site to better facilitate sweeping of paved areas when feasible, placing drip pans under equipment stored or parked for a week or longer, weekly inspections for evidence of leaks from such equipment,	BMP items 1 through 12 are implemented daily during operational hours or are ongoing. Cover active dumpsters, bins, materials storage containers at end of work day and prior to rain events. Hand sweep areas not accessible by sweeper monthly and prior to rain events. Sweeping large assessable areas Catchment Area D twice daily	Catchment Area D. Spill response materials are located on the island and within the equipment maintenance building at the Transfer Station.	Spill response procedures. Operational & Maintenance Manuals are used for select equipment. This SWPPP provides details for BMP implementation.	Equipment used for spill response may include absorbent pads, granular absorbent, shovels and brooms. Automated sweepers.	Daily inspections occur for operational equipment. Daily trash pickup throughout facility and boundaries. Daily sweeping inspections and logs. Monthly and prior to rain event inspections of hand swept areas not accessible by sweeper. Daily and prior to rain events active dumpster, bin and material storage coverage. Monthly inspections are documented and performed in accordance with the MIP in this SWPPP. Annual pavement inspection.

Potential Pollution Source	Potential Pollutant(s) Reduced by BMP (Section X.H.4.a.i)	BMPs	Frequency of BMP implementation (Section X.H.4.a.ii)	Location of BMP (Section X.H.4.a.iii)	Procedures/Maintenance Instructions for BMP Implementation (Section X.H.4.a.v)	Equipment and Tools for BMP Implementation (Section X.H.4.a.iv)	Frequency for BMP Inspection (Section X.H.4.a.vii)
		and prompt clean-up of spills, drips, or leaks from such equipment. 9. No significant repairs are performed that involve potential contamination to vehicles or movable equipment at the Facility in outdoor, uncovered areas from which stormwater discharges during rainfall events. 10. Pavement cleaning include pressure washing with full recovery and regenerative air sweeping to solids that remain after the mechanical sweeper has passed, annually as necessary. 11. Employees responsible for spill response are and BMP implementation trained (refer to Section H for additional details). 12. Documented inspections are performed daily, prior to rain events, monthly and annually, including monthly observation as part of the General Permit.					
Recycling Center - Customer Recyclable Area	Suspended Solids, Oil and Grease, Solvents, pH, Metals, Chemical Oxygen Demand	1. Spill kits are located nearby. 2. Routine inspections are performed by employees. If a spill or leak is observed, it is cleaned up as soon as practicable. 3. Employees responsible for spill response are and BMP implementation trained (refer to Section H for additional details). 4. Customers are asked to drain any containers into provided buckets prior to recycling. Liquid in bucket disposed into sanitary sewer. 5. Two new canopy structures and berm installed to prevent stormwater contact and run-on with materials. 6. A sweeping program is implemented twice daily by the mechanical sweeper. Additionally, two industrial (Billy Goat) vacuums are used in areas where the mechanical sweeper cannot access. 7. Sweep and remove sediment along facility perimeter. 8. Trash pickup daily. 9. Install Absorbent Pads Under Bins 10. Filtrex Siltsoxx and oil absorbent socks will be installed around the catch basin DP-8A and DP-8A storm drain will be sealed/covered during dry-season. 11. Filtrex Siltsoxx and oil absorbent socks will be installed along the fence line along 2nd Street and associated discharge points DP-5A, DP-6, and DP-8A. 12. New vendor (SWIMS.) for stormwater maintenance of catch basin DP-8A and Filtrex Siltsoxx.	BMP items 1 through 19 are implemented daily during operational hours or are ongoing. Daily trash pickup. Cover active dumpsters, bins, material storage containers at end of work day and prior to rain events. Spills cleaned up as soon as possible from residual liquid spills and leaks. Sweeping twice daily. Monthly hand sweep areas not accessible by sweeper and remove sediment from facility perimeter. Daily storm drain protection. Daily wind screen protection. Prior to rain events hand sweep/vacuum areas not accessible by sweeper, sweep sediment along facility perimeter, evaluate wind screen along fence line. Ensure Sediment/hydrocarbon filters implanted at discharge points and perimeter along Second Street. Trainings are completed at least annually.	Catchment Area F Spill response materials are located on the island and within the equipment maintenance building at the Transfer Station. Spill response materials located adjacent to Recycling Center office near DP-8A	Spill response procedures Operational & Maintenance Manuals are used for select equipment. This SWPPP provides details for BMP implementation.	Equipment used for spill response may include absorbent pads, granular absorbent, shovels and brooms Automated sweepers	Daily inspections occur for operational equipment. Monthly inspections are documented and performed in accordance with the MIP in this SWPPP. Daily trash pickup throughout facility and boundaries. Monthly and prior to rain event inspections of hand swept areas not accessible by sweeper, removal of sediment along facility perimeter and wind screens. Daily and prior to rain events active dumpster, bin and material storage coverage. Spill cleanup inspections. Weekly and annual inspections of BMPs for DP-5A, DP-6, and DP-8A. facility perimeter along Second Street. Annual inspection of pavements.

Potential Pollution Source	Potential Pollutant(s) Reduced by BMP (Section X.H.4.a.i)	BMPs	Frequency of BMP implementation (Section X.H.4.a.ii)	Location of BMP (Section X.H.4.a.iii)	Procedures/Maintenance Instructions for BMP Implementation (Section X.H.4.a.v)	Equipment and Tools for BMP Implementation (Section X.H.4.a.iv)	Frequency for BMP Inspection (Section X.H.4.a.vii)
		13. Cover active dumpsters, bins and material storage and containers end of work day. 14. Wind screen along fence line. 15. The Facility will either store under cover or remove from the Facility all abandoned or broken equipment or materials no longer considered for future use that have the potential to serve as the source for pollutant loading. 16. Relocating the vehicles elsewhere on the site to better facilitate sweeping of paved areas when feasible, placing drip pans under equipment stored or parked for a week or longer, weekly inspections for evidence of leaks from such equipment, and prompt clean-up of spills, drips, or leaks from such equipment. 17. No significant repairs are performed that involve potential contamination to vehicles or movable equipment at the Facility in outdoor, uncovered areas from which stormwater discharges during rainfall events. 18. Pavement cleaning include pressure washing with full recovery and regenerative air sweeping to solids that remain after the mechanical sweeper has passed, annually as necessary. 19. Repaving certain sections to facilitate productive cleaning by the mechanical sweeper. 20. Documented inspections are performed daily, prior to rain events, weekly, monthly and annually, including monthly observation as part of the General Permit.					
Recycling Center – Comingled Container Storage Area	Suspended Solids, Oil and Grease, Solvents, Chemical Oxygen Demand, pH	1. Spill kits are located nearby. 2. Routine inspections are performed by employees. If a spill or leak is observed, it is cleaned up as soon as practicable. 3. Employees responsible for spill response are and BMP implementation trained (refer to Section H for additional details). 4. The pile will be covered by tarps when feasible prior to rain events to prevent contact. 5. Stormwater from source area will drain into valley gutters and collected into twp (2) 4,000 gallon storage tanks for discharge into EBMUD sanitary sewer during dry days (24 hours after rain event) and discharge logs. Evaluating additional storage capacity with the addition of another tank and update EBMUD permit.	BMP items 1 through 15 are implemented daily during operational hours or are ongoing. Trainings are completed at least annually. Sweeping twice daily. Trash pickup daily. Monthly and prior to rain event hand swept areas not accessible by sweeper. Daily and prior to rain events active dumpster, bin and material storage coverage. Valley gutters and stormwater holding tank during wet season.	Catchment Area F Spill response materials are located on the island and within the equipment maintenance building at the Transfer Station. Spill response materials located adjacent to Recycling Center office near DP-8A.	Spill response procedures Operational & Maintenance Manuals are used for select equipment. This SWPPP provides details for BMP implementation.	Equipment used for spill response may include absorbent pads, granular absorbent, shovels and brooms Automated sweepers	Daily inspections occur for operational equipment. Monthly inspections are documented and performed in accordance with the MIP in this SWPPP. Daily trash pickup throughout facility and boundaries. Monthly and prior to rain event inspections of hand swept areas not accessible by sweeper. Daily and prior to rain events active dumpster, bin and material storage coverage. Spills cleaned up inspections. Weekly and annual inspections of stormwater holding tank and associated equipment and

Potential Pollution Source	Potential Pollutant(s) Reduced by BMP (Section X.H.4.a.i)	BMPs	Frequency of BMP implementation (Section X.H.4.a.ii)	Location of BMP (Section X.H.4.a.iii)	Procedures/Maintenance Instructions for BMP Implementation (Section X.H.4.a.v)	Equipment and Tools for BMP Implementation (Section X.H.4.a.iv)	Frequency for BMP Inspection (Section X.H.4.a.vii)
		6. A sweeping program is implemented twice daily by the mechanical sweeper. Additionally, two industrial (Billy Goat) vacuums are used in areas where the mechanical sweeper cannot access. 7. Hand sweep areas not accessible by sweeper. 8. Trash pickup daily. 9. Daily and prior to rain events active dumpster, bin and material storage coverage. 10. The Facility will either store under cover or remove from the Facility all abandoned or broken equipment or materials no longer considered for future use that have the potential to serve as the source for pollutant loading. 11. Relocating the vehicles elsewhere on the site to better facilitate sweeping of paved areas when feasible, placing drip pans under equipment stored or parked for a week or longer, weekly inspections for evidence of leaks from such equipment, and prompt clean-up of spills, drips, or leaks from such equipment. 12. No significant repairs are performed that involve potential contamination to vehicles or movable equipment at the Facility in outdoor, uncovered areas from which stormwater discharges during rainfall events. 13. Pavement cleaning include pressure washing with full recovery and regenerative air sweeping to solids that remain after the mechanical sweeper has passed, annually as necessary. 14. Repaving certain sections to facilitate productive cleaning by the mechanical sweeper. 15. Documented inspections are performed daily, prior to rain events, weekly, monthly and annually, including monthly observation as part of the General Permit.					valley gutter drains and sump pumps with maintenance logs.
Recycling Center – Glass Bin Area, Paper Recycling Warehouse	Suspended Solids, Oil and Grease, Chemical Oxygen Demand, pH	1. Spill kits are located nearby. 2. Routine inspections are performed by employees. If a spill or leak is observed, it is cleaned up as soon as practicable. 3. Employees responsible for spill response are and BMP implementation trained (refer to Section H for additional details). 4. The pile will be covered by tarps when feasible prior to rain events to prevent contact.	BMP items 1 through 18 are implemented daily during operational hours or are ongoing. Trainings are completed at least annually. Sweeping twice daily. Trash pickup daily. Monthly and prior to rain event hand swept areas not accessible by sweeper.	Spill response materials are located on the island and within the equipment maintenance building at the Transfer Station and DP-8A near the Recycling Center office.	Spill response procedures Operational & Maintenance Manuals are used for select equipment. This SWPPP provides details for BMP implementation.	Equipment used for spill response may include absorbent pads, granular absorbent, shovels and brooms Automated sweepers	Daily inspections occur for operational equipment. Monthly inspections are documented and performed in accordance with the MIP in this SWPPP. Daily trash pickup throughout facility and boundaries. Monthly and prior to rain event inspections of hand swept areas

Potential Pollution Source	Potential Pollutant(s) Reduced by BMP (Section X.H.4.a.i)	BMPs	Frequency of BMP implementation (Section X.H.4.a.ii)	Location of BMP (Section X.H.4.a.iii)	Procedures/Maintenance Instructions for BMP Implementation (Section X.H.4.a.v)	Equipment and Tools for BMP Implementation (Section X.H.4.a.iv)	Frequency for BMP Inspection (Section X.H.4.a.vii)
		5. Stormwater from glass bin source area will drain into valley gutters and collected into two (2) 4,000 gallon storage tanks for discharge into EBMUD sanitary sewer after 24 hours dry day rain event) and discharge logs. Evaluate additional storage capacity with the addition of another tank. 6. A sweeping program is implemented twice daily by the mechanical sweeper. Additionally, two industrial (Billy Goat) vacuums are used in areas where the mechanical sweeper cannot access. 7. Hand sweep areas not accessible by sweeper. 8. Trash pickup daily. 9. Daily and prior to rain events active dumpster, bin and material storage coverage. 10. Wind screen along fence adjacent to driveway near the Paper Recycling Warehouse, Glass Sorting Area. 11. Filtrex Siltsoxx and oil absorbent socks along drive way discharge point DP-9 (Gillman Street). 12. Maintenance of the Filtrex Siltsoxx and oil absorbent socks. 13. The Facility will either store under cover or remove from the Facility all abandoned or broken equipment or materials no longer considered for future use that have the potential to serve as the source for pollutant loading. 14. Relocating the vehicles elsewhere on the site to better facilitate sweeping of paved areas when feasible, placing drip pans under equipment stored or parked for a week or longer, weekly inspections for evidence of leaks from such equipment, and prompt clean-up of spills, drips, or leaks from such equipment. 15. No significant repairs are performed that involve potential contamination to vehicles or movable equipment at the Facility in outdoor, uncovered areas from which stormwater discharges during rainfall events. 16. Pavement cleaning include pressure washing with full recovery and regenerative air sweeping to solids that remain after the mechanical sweeper has passed, annually as necessary. 17. Repaving certain sections to facilitate productive cleaning by the mechanical sweeper.	Daily and prior to rain events active dumpster, bin and material storage coverage. Valley gutters and stormwater holding tank during wet season. Ensure Sediment/hydrocarbon filters implanted at discharge point/perimeter along Gillman Street. Wind screen implemented daily.				not accessible by sweeper and wind screen. Daily and prior to rain events active dumpster, bin and material storage coverage. Spill cleaned up inspections. Weekly and annual inspections of stormwater holding tank and associated equipment and valley gutter drains and sump pumps with maintenance logs. Weekly and annual inspections of BMPs for DP-9 along Gillman Street. Annual pavement inspection.

Potential Pollution Source	Potential Pollutant(s) Reduced by BMP (Section X.H.4.a.i)	BMPs	Frequency of BMP implementation (Section X.H.4.a.ii)	Location of BMP (Section X.H.4.a.iii)	Procedures/Maintenance Instructions for BMP Implementation (Section X.H.4.a.v)	Equipment and Tools for BMP Implementation (Section X.H.4.a.iv)	Frequency for BMP Inspection (Section X.H.4.a.vii)
		18. Documented inspections are performed daily, prior to rain events, weekly, monthly and annually, including monthly observation as part of the General Permit.					
Ecology Center – Truck Paring Area	Suspended Solids, Oil and Grease, Solvents, Chemical Oxygen Demand, pH	1. A sweeping program is implemented twice daily by the mechanical sweeper. Additionally, two industrial (Billy Goat) vacuums are used in areas where the mechanical sweeper cannot access. Spill kits are located nearby in cargo bin 2. Routine inspections are performed by employees. If a spill or leak is observed, it is cleaned up as soon as practicable. 3. Employees responsible for spill response are and BMP implementation trained (refer to Section H for additional details). 4. Perform major maintenance activities of the EC trucks off site and utilize a vehicle containment pad for any work done onsite. Only routine maintenance is performed on trucks (i.e. oil/filter/hydraulic oil changes) onsite by vendor 5. Trash pickup facility wide and perimeter. 6. Coverage of active dumpsters, bins, material storage and containers at end of work day. 7. Filtrex Siltsoxx and oil absorbent socks along fence line perimeter and discharge point DP-5A (Second Street). A berm has been installed to eliminate discharges at DP-5. 8. Stormwater maintenance of the Filtrex Siltsoxx and oil absorbent socks. 9. Installing large absorbent sheets under the trucks on a more frequent basis (monthly during dry weather and weekly during wet weather). 10. Performing major maintenance activities of the EC trucks off site and utilize a vehicle containment pad for any work done onsite if necessary. 11. Drip containers for garbage trucks. 12. Sweeping twice daily. 13. Relocating the vehicles elsewhere on the site to better facilitate sweeping of paved areas when feasible, placing drip pans under equipment stored or parked for a week or longer, weekly inspections for evidence of leaks from such equipment, and prompt clean-up of spills, drips, or leaks from such equipment. 14. The Facility will either store under cover or remove from the Facility all abandoned or	BMP items 1 through 17 are implemented daily during operational hours or are ongoing. Sweeping twice daily and prior to rain events along facility perimeter (fence line). Trash pickup daily. Monthly and prior to rain event hand swept areas not accessible by sweeper. Daily and prior to rain events active dumpster, bin and material storage coverage. Plastic drip containers daily. Surface filtering wattle BMPs along facility fence line and discharge point DP-5A implemented daily. Trainings are completed at least annually.	Spill response materials are located in the cargo bin next to truck parking area. Berm installed at former discharge location DP-5. Discharges now directed to DP-5A with Sediment/hydrocarbon/zeolite filters.	Spill response procedures Operational & Maintenance Manuals are used for select equipment. This SWPPP provides details for BMP implementation.	Equipment used for spill response may include absorbent pads, granular absorbent, shovels and brooms	Daily inspections occur for operational equipment. Monthly inspections are documented and performed in accordance with the MIP in this SWPPP. Weekly and annual inspections of BMPs for DP-5 and DP-5A and perimeter fence line along Second Street. Annual pavement inspection. Weekly and annual inspection of drip containers for garbage trucks. Monthly inspections of hand swept areas not accessible by sweeper and facility perimeter. Daily inspections of swept areas, trash pickup facility wide and perimeter and coverage of active dumpsters, bins, material storage and containers at end of work day.

Potential Pollution Source	Potential Pollutant(s) Reduced by BMP (Section X.H.4.a.i)	BMPs	Frequency of BMP implementation (Section X.H.4.a.ii)	Location of BMP (Section X.H.4.a.iii)	Procedures/Maintenance Instructions for BMP Implementation (Section X.H.4.a.v)	Equipment and Tools for BMP Implementation (Section X.H.4.a.iv)	Frequency for BMP Inspection (Section X.H.4.a.vii)
		broken equipment or materials no longer considered for future use that have the potential to serve as the source for pollutant loading. 15. No significant repairs are performed that involve potential contamination to vehicles or movable equipment at the Facility in outdoor, uncovered areas from which stormwater discharges during rainfall events. 16. Pavement cleaning include pressure washing with full recovery and regenerative air sweeping to solids that remain after the mechanical sweeper has passed. 17. Documented inspections are performed daily, prior to rain events, weekly, monthly and annually, including monthly observation as part of the General Permit.					

M. MONITORING IMPLEMENTATION PLAN (MIP) (GENERAL PERMIT SECTION X.I)

This document presents the MIP for the Facility. This MIP was prepared to address the following objectives:

1. Identify team members assisting in implementing the MIP (General Permit Section X.I.1);
2. Describe discharge locations (General Permit Section X.I.2.a);
3. Provide justification for representative sampling reduction, sample frequency reduction, and/or qualified combined samples, as applicable (General Permit Section X.I.3);
4. Describe visual observation requirements (General Permit Section X.I.2.b)
5. Describe visual observation response procedures (General Permit Section X.I.2.c);
6. Describe sample collection and handling procedures (General Permit Section X.I.B;
7. Describe sample analysis;
8. Describe field instrument calibration procedures (General Permit Section X.I.4); and
9. Provide an example Chain of Custody form and procedures when handling and shipping water quality samples (Section X.I.5).

M.1 TEAM MEMBERS (GENERAL PERMIT SECTION X.I.1)

Trained Facility compliance personnel are responsible for the visual monitoring, site inspection activities, and storm water sampling described herein. A list of Facility employees selected for these tasks is provided within SWPPP Section B. Training for the team members is included in Section H. In addition to the Facility personnel, the Facility has selected the following certified laboratory to perform the sample analysis.

Laboratory Name:	Enthalpy, Inc.
Street Address:	2323 5th Street
City, State Zip:	Berkeley, CA 94710
Telephone Number:	510-486-0900
Point of Contact:	Tracy Babjar
ELAP Certification Number:	2896

M.2 DISCHARGE LOCATIONS (GENERAL PERMIT SECTION X.I.2.A)

A description of the Facility's storm water discharge locations associated with industrial activities are described with Section C.3 of this SWPPP, summarized below, and are included on the Site Map. If there are discharge locations at the Facility that are affected by run-on from

surrounding areas as described in Section C.4 of this SWPPP, or that are difficult or unsafe to sample, an alternative monitoring location can be selected.

Discharge Location No.	Include Latitude/Longitude for Discharge Point	Comment (i.e., identify if this is a sample collection point or describe alternative location, identify if Representative Sampling Reduction, Sample Frequency Reduction, and/or Qualified Combined Samples requirement apply)[1,2]
DP-1A	37.88150/-122.30655	Sample collection point Representative sampling reduction, sample frequency reduction, and qualified combined sample requirements do not apply.
DP-2A	37.88024/-122.30617	Sample collection point Representative sampling reduction, sample frequency reduction, and qualified combined sample requirements do not apply.
DP-3A	37.88046/-122.30569	Sample collection point Representative sampling reduction, sample frequency reduction, and qualified combined sample requirements do not apply.
DP-4	37.87960/-122.30604	Sample collection point Representative sampling reduction, sample frequency reduction, and qualified combined sample requirements do not apply.
DP-5	37.87929/-122.30593	Sample collection point Representative sampling reduction, sample frequency reduction, and qualified combined sample requirements do not apply. This sampling location is discontinued because a berm has been installed in the area to prevent discharge, see Figures 2 and 3. The new sampling location is DP-5A
DP-5A	37.879156/-122.305919	Sample collection point Representative sampling reduction, sample frequency reduction, and qualified combined sample requirements do not apply.
DP-6	37.87914/-122.30588	Sample collection point Representative sampling reduction, sample frequency reduction, and qualified combined sample requirements do not apply.
DP-7	37.87887/-122.30580	Sample collection point, has been discontinued, only employee picnic and parking in this area. Universal waste storage has been move to sample location DP-6 as representable sample location. Representative sampling reduction, sample frequency reduction, and qualified combined sample requirements do not apply.
DP-8A	37.87870/-122.30559	Sample collection point Representative sampling reduction, sample frequency reduction, and qualified combined sample requirements do not apply.

[1] Any alternative sampling locations selected should be included on the site map.

[2] Justification for Representative Sampling Reduction, Sample Frequency Reduction, and/or Qualified Combined Samples is included in Section M.3.

Discharge Location No.	Include Latitude/Longitude for Discharge Point	Comment (i.e., identify if this is a sample collection point or describe alternative location, identify if Representative Sampling Reduction, Sample Frequency Reduction, and/or Qualified Combined Samples requirement apply)[1,2]
DP-9	37.87878/-122.30485	Sample collection point Representative sampling reduction, sample frequency reduction, and qualified combined sample requirements do not apply.

M.3 REPRESENTATIVE SAMPLING REDUCTION OR QUALIFIED COMBINED SAMPLES (GENERAL PERMIT SECTIONS XI.C.4 AND XI.C.5)

Presented below is the justification for representative sampling reduction and/or qualified combined samples in accordance with General Permit Sections XI.C.4 and XI.C.5, respectively. The Facility may reduce the number of sample locations in each drainage area (e.g., roofs with multiple downspouts) if the drainage areas are substantially similar. Alternatively, the Facility may authorize the laboratory to combine as many as four (4) discharge locations. Drainage areas must be substantially similar to one another including industrial activities, BMPs, and physical characteristics. This SWPPP includes descriptions of the industrial activities within Section F; descriptions of BMPs are included within Sections G, J, and L; and descriptions of physical characteristics of the drainage areas are included within Section C.3. The rationale that demonstrates that drainage areas are substantially similar is presented below. If areas are not substantially similar, indicate not applicable in the table below.

Discharge Location Selected for Reduction	Corresponding Discharge Location	Are Industrial Activities Similar? (Y/N)	Are BMPs Similar? (Y/N)	Are Physical Characteristics (i.e., Grade, Surface Materials) Similar? (Y/N)	Is the sampling location representative? (Y/N)	Provide justification for Combining Samples or Sample Reduction
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

M.4 VISUAL OBSERVATION REQUIREMENTS (GENERAL PERMIT SECTIONS XI.A.2.B AND C)

The General Permit requires visual observations as described below.

M.4.1 Monthly Visual Observations (General Permit Section XI.A.2.b)

At least once per calendar month, the Facility will visually observe each drainage area for the following:

- Presence or indications of prior, current, or potential unauthorized NSWDs and their sources;
- Authorized NSWDs, sources, and associated BMPs;
- Outdoor industrial equipment and storage areas, outdoor industrial activities areas, BMPs, and all other potential source of industrial pollutants.

Monthly visual observations will be completed during daylight hours, under dry conditions, and during scheduled Facility operating hours in accordance with General Permit Section XI.A.1.b. Monthly visual observations will be documented on the Monthly Visual Observation Form in Appendix E. The observation form includes a section on response actions and additional SWPPP revisions necessary in response to the visual observations as required in General Permit Section XI.A.3. If response actions are necessary (as described on the forms), BMPs will be revised and addressed within this SWPPP in accordance with the General Permit (Section XI.A.4). Completed monthly observation forms are located in Exhibit C.

M.4.2 Sampling Event Visual Observations (General Permit Section XI.A.2.c)

At each discharge location where a sample is obtained, the Facility will observe the discharge of storm water associated with industrial activity. As described in the General Permit (Section XI.A.2):

- The Discharger shall ensure that visual observations of storm water discharged from containment sources (e.g. secondary containment or storage ponds) are conducted at the time that the discharge is sampled.
    - Note: This requirement does not apply when storm water from a containment area is released but no off-site discharge occurs.
- Any Discharger employing volume-based or flow-based treatment BMPs shall sample any bypass that occurs while the visual observations and sampling of storm water discharges are conducted.
- The Discharger shall visually observe and record the presence or absence of
    - floating and suspended materials,
    - oil and grease,
    - discolorations,
    - turbidity,
    - odors,
    - trash/debris,

- and source(s) of any discharged pollutants
- In the event that a discharge location is not visually observed during the sampling event, the location of the discharge and reasoning for not obtaining observations must be recorded.

Sampling event visual observations will be documented on the Sampling Event Visual Observation Form within Appendix F. The observation form includes a section on response actions and additional SWPPP revisions necessary in response to the visual observations as required in General Permit Section XI.A.3. If response actions are necessary (as described on the forms), BMPs will be revised and addressed within this SWPPP in accordance with the General Permit Section XI.A.4. Completed Sampling Event Visual Observation Form is in Exhibit D.

M.5 Sample Collection and Handling Requirements (General Permit Sections XI.B)

M.5.1 Qualifying Storm Event (QSE) (General Permit Section XI.B)

In accordance with General Permit Section XI.B, storm water discharge samples will be collected from QSEs four times per year: twice during the first half of the year (July 1 through December 31) and twice during the second half of the year (January 1 through June 30). Weather tracking reports are in Exhibit E. The General Permit describes a QSE as a precipitation event that:

- Produces a discharge from at least one drainage area, and
- Is preceded by 48-hours with no discharges from any of the drainage areas.

Storm water discharge samples should be collected under the following conditions by properly trained personnel:

- Within 4 hours of the start of discharge.
- The start of operations if the QSE occurs within the previous 12-hour period.
- During regularly scheduled facility operating hours (see Section C.1 regarding regularly scheduled operating hours).
- When weather and site conditions are safe.

M.5.2 Sample Collection (General Permit Section XI.B.8 and Attachment H)

Samples should be collected at the designated sampling locations shown on the Site Map(s) and listed in Section M.2. To maintain sample integrity and prevent cross-contamination, sample collection personnel will follow the protocols below.

- Think safety first when collecting samples;
- Collect samples (for laboratory analysis) only in analytical laboratory-provided sample containers;
- Wear clean, powder-free nitrile gloves when collecting samples;
- Change gloves whenever something not known to be clean has been touched;
- Change gloves between sites;
- Decontaminate equipment that may be in contact with the sample water with the exception of laboratory provided containers (e.g. collection buckets, tubing). Decontaminate prior to sample collection using a trisodium phosphate water wash, distilled water rinse, and final rinse with distilled water. Dispose of wash and rinse water appropriately (do not discharge into storm drain);
- Do not dip sample containers with preservatives into the flow path. Use a collection container provided by the laboratory to fill these containers. Alternatively, use decontaminated equipment (as described above) to fill the containers;
- Do not overfill containers. Fill containers to the top or to the level indicated on the bottle;
- Do not test pH from sample bottles. If using a bottle, use a designated container without laboratory preservatives and rinse the container with two or three volumes of storm water from the flow at the discharge point prior to filling;
- Do not scrape the ground or collect floating debris;
- Do not smoke during sampling events;
- Never sample near a running vehicle;
- Avoid parking vehicles in the immediate sample collection area;
- Do not eat or drink during sample collection;
- Do not breathe, sneeze, or cough in the direction of an open sample container;
- Secure sample container lids immediately after sample collection; and
- Place containers in an ice-chilled cooler (or use blue ice) immediately following sample collection.

The most important aspect of grab sampling is to collect a sample that represents the entire runoff stream. Typically, samples are collected by dipping the collection container in the runoff flow paths and streams as noted below:

- For small flow paths, simply dip the bottle facing upstream until full.
- For larger flow that can be safely accessed, collect a sample in the middle of the flow stream by directly dipping the mouth of the bottle. Once again making sure that the opening of the bottle is facing upstream as to avoid any contamination by the sampler.
- Avoid collecting samples from ponded, sluggish or stagnant water as this does not represent true sample homogeneity. The sampled water must be flowing.
- Avoid collecting samples directly downstream from a bridge as the samples can be affected by the bridge structure or runoff from the road surface.
- Do not stand upstream of the sampling point within the flow path.

M.5.3 Sample Analysis (General Permit Section XI.B.6)

Presented below are the parameters selected for analysis and reason for including the parameter.

Constituent	Influent and Effluent [3] DP-1A, DP-2A, DP-3A	Total	Reason
Field pH	x		Basic required constituent
Oil and Grease (O&G)	x		Basic required constituent
Total Suspended Solids (TSS)	x		Basic required constituent
Iron	x	x	SIC Code constituents
Lead	x	x	SIC Code constituents
Aluminum	x	x	SIC Code constituents
Zinc	x	x	SIC Code constituents
Chemical Oxygen Demand (COD)	x	x	SIC Code constituents
Zinc and Copper			TMDL/303(d) list constituent
Not Applicable			Regional Water Board required constituent

3. Influent samples no loner required after September 30, 2019.

Constituent	Influent and Effluent [3] DP-1A, DP-2A, DP-3A	Total	Reason
Copper	x	x	Pollutant Source Assessment constituent
Not Applicable			Subchapter N constituent

Presented below are the analytical methods, sample container requirements, preservation requirements, reporting limits and holding times for the selected parameters at the Facility.

Consti-tuent	Analytical Method	Minimum Sample Volume	Sample Containers	Sample Preservation	Reporting Limit	Maximum Holding Time	NAL	Instantaneous Maximum NAL
Field pH	Litmus paper or meters	Not Applicable	Not Applicable	None	1 SU	Measurements to be taken immediately	Not Applicable	Less than 6.0 Greater than 9.0
TSS	SM 2540D	1 L	1 L plastic	None	1.0 mg/L	7 days	100 mg/L	400 mg/L
O&G	EPA 1664A	1 L	1 L amber glass	Hydrochloric acid	5.0 mg/L	28 days	15 mg/L	25 mg/L
Iron (total)	EPA 200.7	250 mL	250 mL plastic	Nitric acid (HNO3)	0.1 mg/L	180 days	1.0 mg/L	Not Applicable
Lead (total)	EPA 200.8	250 mL	250 mL plastic	Nitric acid (HNO3)	0.03 mg/L	180 days	0.262 mg/L	Not Applicable
Aluminum (total)	EPA 200.8	250 mL	250 mL plastic	Nitric acid (HNO3)	0.10 mg/L	180 days	0.75 mg/L	Not Applicable
Zinc (total)	EPA 200.8	250 mL	250 mL plastic	Nitric acid (HNO3)	0.02 mg/L	180 days	0.26 mg/L	Not Applicable
Copper (total)	EPA 200.8	250 mL	250 mL plastic	Nitric acid (HNO3)	0.001 mg/L	180 days	0.0332 mg/L	Not Applicable
COD (total))	SM 5220C	250 mL	250 mL plastic	Sulfuric acid (H2SO3)	10 mg/L	28 days	120 mg/L	Not Applicable

Abbreviations

mg/L = milligrams per liter
mL = milliliter
L = liter
SU = standard unit

M.5.4 Field pH Equipment Calibration Procedures (General Permit Section XI.C.2 and Attachment H)

Field pH measurements will be conducted within fifteen minutes of sample collection. Do not store pH samples for later measurement. If using a designated sample container for field pH, rinse the container with two or three volumes of storm water from the flow at the discharge point prior to filling. Field pH will be monitored using either:

- Calibrated portable instrument for pH; or
- Methods in accordance with 40 Code of Federal Regulations 136 for testing storm water.

If a calibrated portable instrument for pH is used, field measurements should be conducted in accordance with the portable instrument accompanying manufacturer's instructions. It is recommended that an equipment calibration is performed prior to forecast rain events that the Facility plans to monitor. The pH measurement will be recorded on the Sampling Event Visual Observation Form within Appendix F.

Note that, if the Facility has two or more pH results outside of the pH range of 6 to 9 pH units, this SWPPP will be revised and a calibrated portable instrument will be required.

M.5.5 Sampling Handling Procedures (General Permit Section XI.B.8 and Attachment H)

Samples for laboratory analysis will be handled as follows:

- Each sample container will be labeled immediately following sample collection with a unique sample identification;
- Field logs sheets included within Attachment E will be completed;
- Chain of Custody record will be completed. An example is included in Appendix G and described below;
- Cooler will be packaged with sufficient ice or blue ice to maintain samples between 0 and 6 degrees Celsius;
- Sample bottles will be packaged to reduce the chance of breakage during transit; and
- Samples will be delivered to the analytical laboratory promptly. Analytical laboratory should receive samples within 48 hours of the physical sampling unless required to be delivered sooner based on hold times.

M.5.6 Chain of Custody Record (General Permit Section X.I.5)

The Chain of Custody Record is a legal document used to track the samples from collection through analysis. The Chain of Custody Record must be signed by the sampler and the person taking custody of the samples. An example chain of custody record is included in Appendix G.

M.5.7 Data Evaluation and Reporting (General Permit Section XI.B.11)

A designated member of the Pollution Prevention Team will complete the evaluation listed below. The sampling analysis reporting requirements may be found in General Permit Section XI.B.11:

- All sampling and analytical results for all individual samples will be submitted via SMARTS within 30 days of obtaining all results for each sampling event.
- The method detection limit will be provided when an analytical result from samples taken is reported by the laboratory as a "non-detect" or less than the method detection limit. A value of zero will not be reported.
- Analytical results that are reported by the laboratory as below the minimum level (often referred to as the reporting limit) but above the method detection limit will be provided.
- Reported analytical results will be averaged automatically by SMARTS at the end of the reporting year. For any calculations required by the General Permit, a value of zero shall be used when effluent sampling analytical results are reported by the laboratory as "non-detect" or reported as less than the Method Detection Limit (MDL). Laboratory analytical reports are in Exhibit F.

In addition to the reporting requirements above, the designated member of the Pollution Prevention Team will:

- Compare each distinct sample (individual or combined) to the corresponding instantaneous maximum NAL included in Table 2 of the General Permit; and
- Calculate the average of the analytical results and compare the average to the NALs included in Table 2 of the General Permit.

If an NAL exceedance occurs in a given reporting year, a Level 1 Exceedance Response Action (ERA) Evaluation and a Level 1 ERA Report will be required in the following year, or, if in a subsequent year, a Level 2 ERA Action Plan and a Level 2 ERA Report will be required in accordance with the General Permit.

An instantaneous maximum NAL exceedance occurs when two (2) or more analytical results from samples taken for any single parameter within a reporting year exceed the instantaneous maximum NAL or are outside the range for pH. An annual NAL exceedance occurs when the average of all the analytical results for a parameter from samples taken within a reporting year exceeds the annual NAL value for that parameter listed in Table 2.

The results of either of the ERA reports may require that the SWPPP be amended. ERA related documents, if applicable, are maintained with the hardcopy SWPPP files in Exhibit G in separate reports.

The Facility is currently in the following ERA Level:

ERA Level	Date Entered
Baseline	July 1, 2015
ERA Level 1	July 1, 2016
ERA Level 2	July 1, 2017

If the Facility is in ERA Level 1 or Level 2, the following person has been designated as the QISP.

QISP Name	QISP Cert Number	Contact Information (phone/ email address)
James Honniball	0051	415-515-3182 Jim.honniball@wsp.com

M.6 ANNUAL COMPREHENSIVE FACILITY COMPLIANCE EVALUATION (ACFCE) (GENERAL PERMIT SECTION XV)

The General Permit (Section XV) requires the Facility to conduct one Annual Comprehensive Facility Compliance Evaluation (ACFCE) for each reporting year (July 1 to June 30). The ACFCE should be conducted at least eight (8) months and not more than sixteen (16) months after the previous ACFCE. The SWPPP should be revised, as appropriate based on the results of the ACFCE, and the revisions will be implemented within 90 days of the ACFCE.

Presented below includes the minimum requirements of the ACFCE and reference to the applicable sections of the SWPPP how the Facility meets the requirements.

Annual Comprehensive Facility Compliance Evaluation Minimum Requirement	Reference to SWPPP Section
A review of all sampling, visual observation, and inspection and monitoring records and sampling and analysis results conducted during the previous reporting year.	Completed forms described within this SWPPP in Section M.4 and M.5 are reviewed by the designated team member. Analytical results are reviewed in accordance with Section M.5.G.
A visual inspection of all areas of industrial activity and associated potential pollutant sources for evidence of, or the potential for, pollutants entering the storm water conveyance system.	This visual inspection is documented on the Monthly Visual Observation Form in Appendix E.
A visual inspection of all drainage areas previously identified as having no exposure to industrial activities and materials in accordance with the definitions in Section XVII.	Not applicable.
A visual inspection of equipment needed to implement the BMPs.	This visual inspection is documented on the Monthly Visual Observation Form in Appendix E. Visual inspection of equipment is a required Minimum BMP (See General Permit Section X.H.1.b.ii)
A visual inspection of BMPs.	This visual inspection is documented on the Monthly Visual Observation Form in Appendix E.

Annual Comprehensive Facility Compliance Evaluation Minimum Requirement	Reference to SWPPP Section
A review and effectiveness assessment of all BMPs for each industrial activity area and associated potential pollutant sources to determine if the BMPs are properly designed, implemented, and are effective in reducing and preventing pollutants in industrial storm water discharges and authorized NSWDs.	Completed forms described within this SWPPP in Section M.4 and M.5 are reviewed by the designated team member. Analytical results are reviewed in accordance with Section M.5.G. These documents provide the basis for the effectiveness assessment. If revisions are required, the SWPPP will be amended as stated above.
An assessment of any other factors needed to comply with the Annual Reporting requirements in General Permit (Section XVI.B).	This item will be assessed by the Facility during the reporting year for any other factors to consider.

M.7 ANNUAL REPORT (GENERAL PERMIT SECTION XVI)

The Annual Report should be prepared, certified, and electronically submitted no later than July 15th following each reporting year using the standardized format and checklists in SMARTS. The Annual Report (completed through SMARTS) should include:

- A Compliance Checklist that indicates whether a Discharger complies with, and has addressed all applicable requirements of this General Permit;
- An explanation for any non-compliance of requirements within the reporting year, as indicated in the Compliance Checklist;
- An identification, including page numbers and/or sections, of all revisions made to the SWPPP within the reporting year; and
- The date(s) of the ACFCE.

FIGURES

Street map from ESRI, 2007. Aerial image from Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

N

0 2,000 Feet

SITE LOCATION MAP
Berkeley Transfer Station and
Recycling Center
1201 Second St.and 669 Gilman St.
Berkeley, California

wsp	By: DMO	Prj. No. 5025220024
	Date: 03/30/2023	Figure 1

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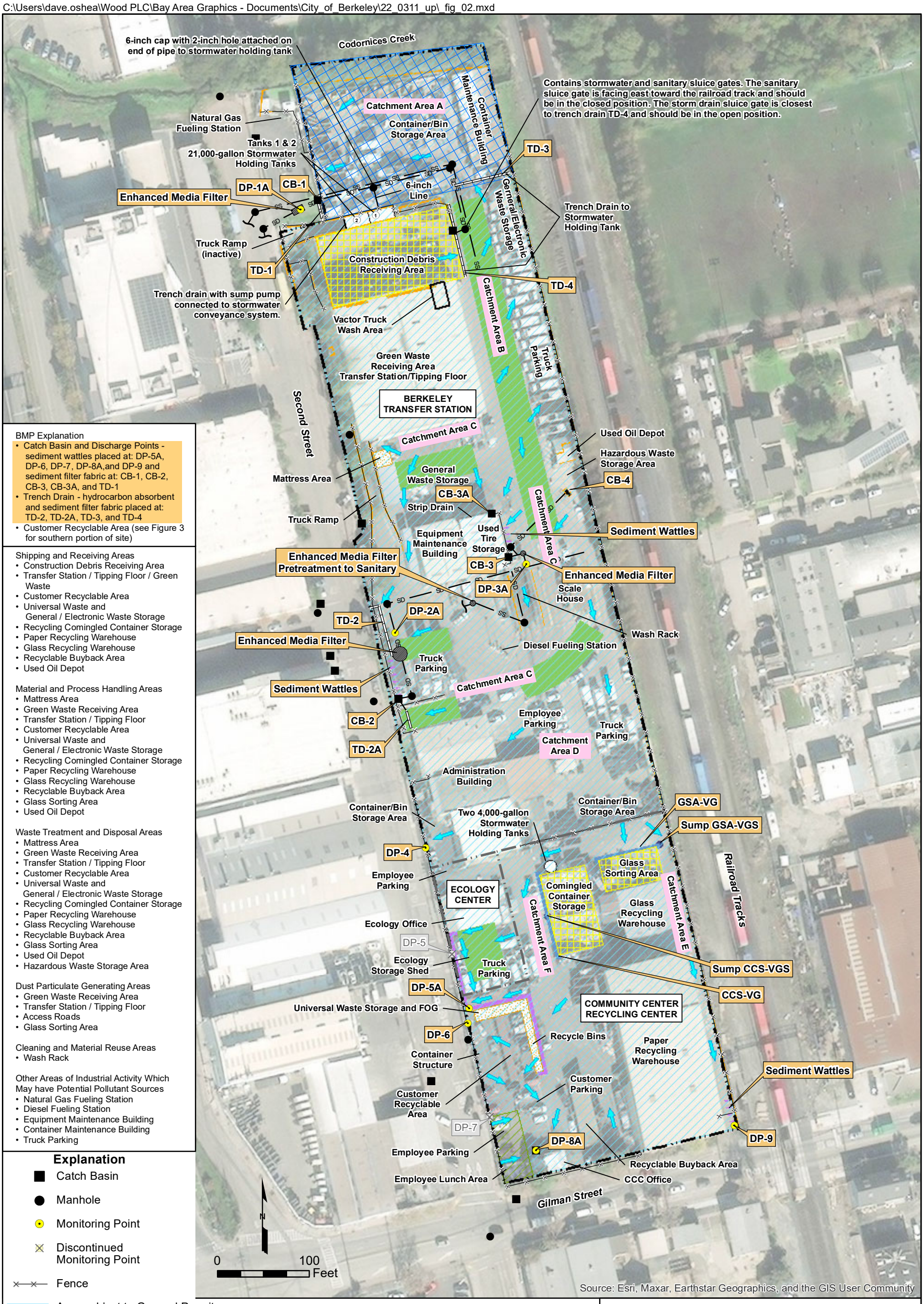

BMP Explanation
- Catch Basin and Discharge Points - sediment wattles placed at: DP-5A, DP-6, DP-7, DP-8A,and DP-9 and sediment filter fabric at: CB-1, CB-2, CB-3, CB-3A, and TD-1
- Trench Drain - hydrocarbon absorbent and sediment filter fabric placed at: TD-2, TD-2A, TD-3, and TD-4
- Customer Recyclable Area (see Figure 3 for southern portion of site)

Shipping and Receiving Areas
- Construction Debris Receiving Area
- Transfer Station / Tipping Floor / Green Waste
- Customer Recyclable Area
- Universal Waste and General / Electronic Waste Storage
- Recycling Comingled Container Storage
- Paper Recycling Warehouse
- Glass Recycling Warehouse
- Recyclable Buyback Area
- Used Oil Depot

Material and Process Handling Areas
- Mattress Area
- Green Waste Receiving Area
- Transfer Station / Tipping Floor
- Customer Recyclable Area
- Universal Waste and General / Electronic Waste Storage
- Recycling Comingled Container Storage
- Paper Recycling Warehouse
- Glass Recycling Warehouse
- Recyclable Buyback Area
- Glass Sorting Area
- Used Oil Depot

Waste Treatment and Disposal Areas
- Mattress Area
- Green Waste Receiving Area
- Transfer Station / Tipping Floor
- Customer Recyclable Area
- Universal Waste and General / Electronic Waste Storage
- Recycling Comingled Container Storage
- Paper Recycling Warehouse
- Glass Recycling Warehouse
- Recyclable Buyback Area
- Glass Sorting Area
- Used Oil Depot
- Hazardous Waste Storage Area

Dust Particulate Generating Areas
- Green Waste Receiving Area
- Transfer Station / Tipping Floor
- Access Roads
- Glass Sorting Area

Cleaning and Material Reuse Areas
- Wash Rack

Other Areas of Industrial Activity Which May have Potential Pollutant Sources
- Natural Gas Fueling Station
- Diesel Fueling Station
- Equipment Maintenance Building
- Container Maintenance Building
- Truck Parking

Explanation

- Catch Basin
- Manhole
- Monitoring Point
- Discontinued Monitoring Point
- Fence
- Area subject to General Permit and Impervious Area
- Non-industrial Area
- Materials directly exposed to rain
- Run-on or Flooding Area
- Flow Arrow
- Property Boundary
- Curb/Berm
- Berm
- Asphalt Repaving
- Filter Vault
- SS – Sanitary Sewer
- SD – Storm Drain
- Trench Drain and Valley Drain Gutter to holding tank for stormwater discharge to sanitary sewer
- Canopy Cover

Note: There have been no significant spills at the facility within the past 5 years.

SITE PLAN
Berkeley Transfer Station and Recycling Center
1201 Second St.and 669 Gilman St.
Berkeley, California

wsp	By: DMO	Prj. No. 5025220024
	Date: 03/30/2023	Figure 2

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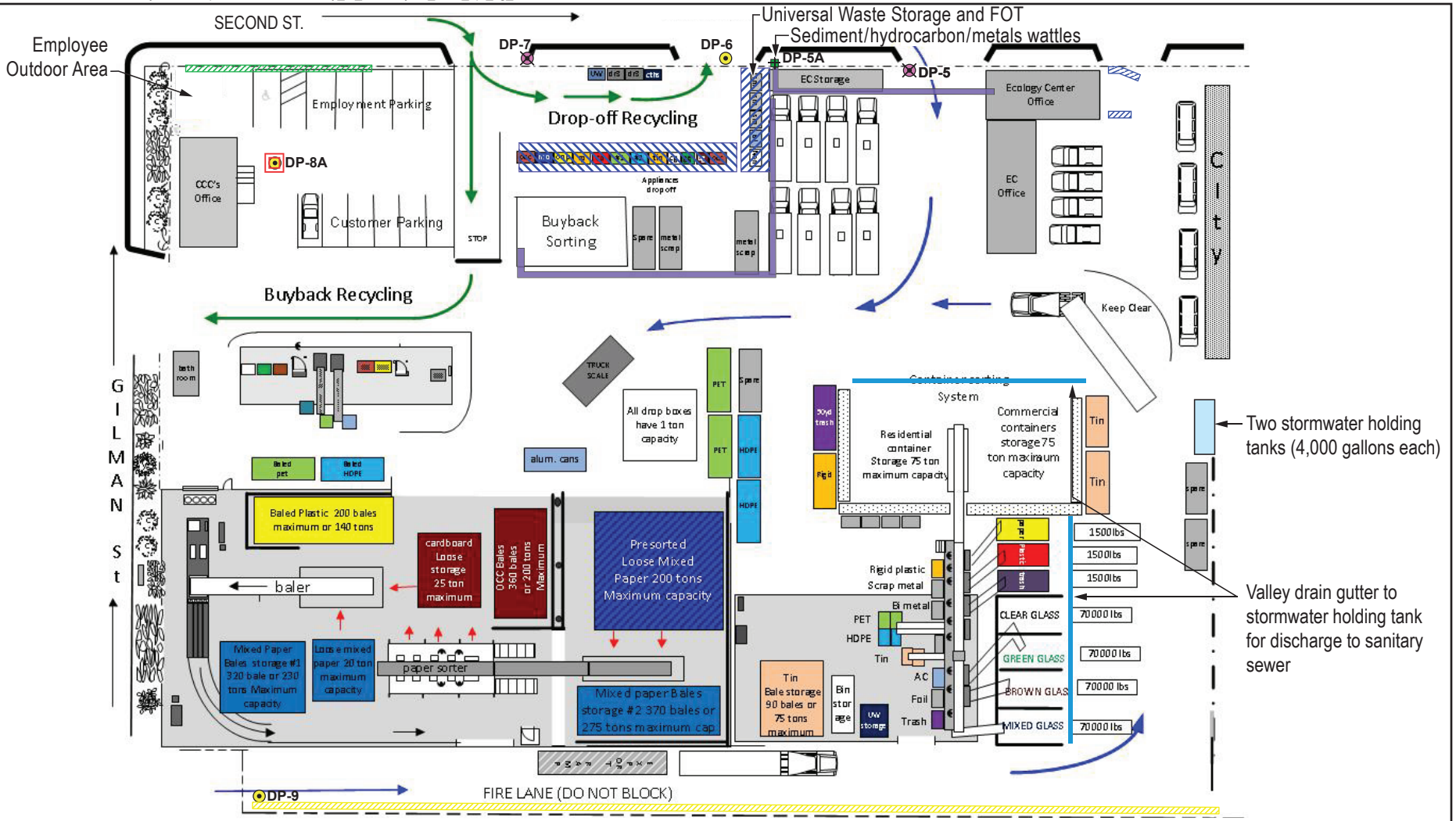

BMP Explanation

- Debris grate and filter fabric insert
- Fence windscreen
- Fine mesh fence screen
- Hydrocarbon absorbent sock
- DP-8A Monitoring point
- DP-5 Discontinued monitoring point

- Valley drain gutter
- Berm
- Public traffic route
- Truck traffic route
- Canopy Cover

Note:
Site Plan provided by the Community Conservation Centers, Inc.

RECYCLING CENTER SITE PLAN
Berkeley Transfer Station and Recycling Center
1201 Second St. and 669 Gilman St.
Berkeley, California

WSP	By: DMO	Proj. No. 5025220024
	Date: 03/30/2023	Figure 3

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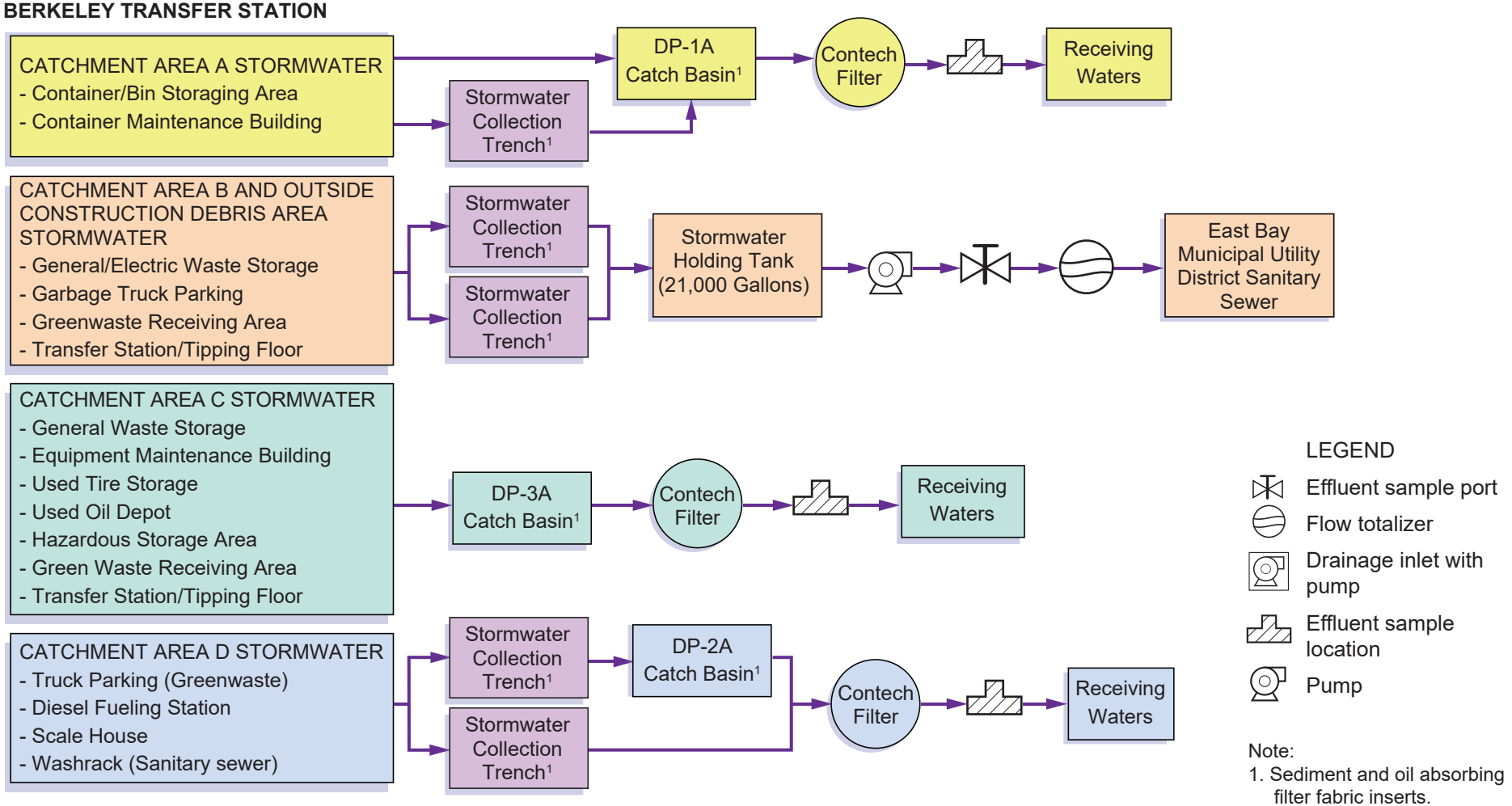
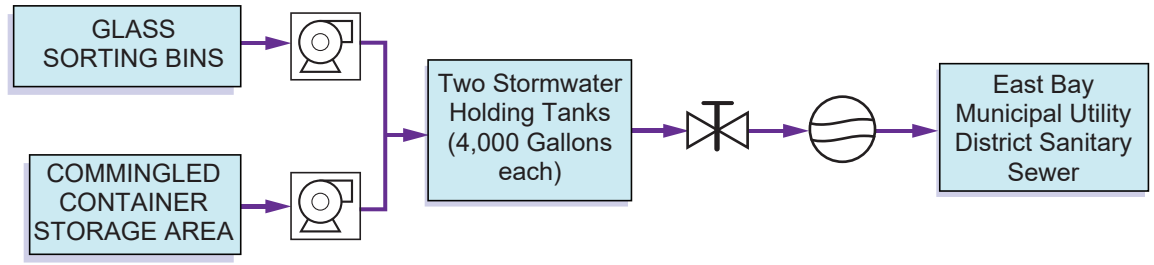
BERKELEY TRANSFER STATION



COMMUNITY CONSERVATION CENTER (CCC)



STORMWATER CAPTURE AND TREATMENT FLOW PROCESS DIAGRAM
Berkeley Transfer Station and Recycling Center
1201 Second St. and 669 Gilman St.
Berkeley, California

wsp	By: DMO	Proj. No. 5025220024
	Date: 03/30/2023	Figure 4

APPENDIX A

Permit Registration Documents

CALIFORNIA Water Boards

State Water Resources Control Board

NOTICE OF INTENT

GENERAL PERMIT TO DISCHARGE STORM WATER
ASSOCIATED WITH INDUSTRIAL ACTIVITY (WQ ORDER No. 2014-0057-DWQ)
(Excluding Construction Activities)

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

WDID: 2 01I009237 Status: Active

Operator Information

Type:

Name: City of Berkeley
Address: 1201 2nd St
Address 2:
City/State/Zip: Berkeley CA 94710
Federal Tax ID:

Contact Name: Elizabeth Brown
Title: Env. Comp. Specialist
Phone Number: 510-981-6629
Email Address: ejbrown@ci.berkeley.ca.us

Facility Information

Level:

Contact Name: Manuel Hector
Title: Acting Zero Wate Manager
Site Name: Berkeley City Transfer Station
Address: 1201 2nd St
City/State/Zip: Berkeley CA 94710
County: Alameda
Latitude: 37.88015 Longitude: -122.30636

Site Phone #: 510-981-2489
Email Address: mhector@cityofberkeley.info
Site Size: 7.4 Acres
Industrial Area Exposed to Storm Water: 2 Acres
Percent of Site Impervious (Including Rooftops): 98 %

SIC Code Information

1. 4212 Local Trucking Without Storage
2. 5093 Scrap and Waste Materials
3.

Additional Information

Receiving Water: San Francisco Bay
Flow: Indirectly
Storm Drain System: City of Berkeley
Compliance Group:

RWQCB Jurisdiction: Region 2 - San Francisco Bay
Phone: 510-622-2300
Email: r2_stormwater@waterboards.ca.gov

Certification

Name: Elizabeth Brown
Date: June 11, 2015
Title: Environmental Compliance Specialist

APPENDIX B

Example Training Log

TRAINED TEAM MEMBER LOG

Storm Water Management Training Log and Documentation

The following employees have received training in the subjects described below as required by NPDES Industrial Permit WDID #201I009237. Refresher training on these subjects must be conducted annually.

- Good Housekeeping
- Spill and Leak Prevention and Response Management
- Erosion and Sediment Controls
- Advanced BMPs
- Storm Water Sampling and Analysis
- Preventative Maintenance
- Material handling and waste
- Visual Monitoring
- Quality Assurance and Record Keeping

Training Objective: Annual Training on Industrial General Permit

Location: _____

Instructor: _____

Date: _____

Employee Name	Signature	Job Title	Date

Employee Name	Signature	Job Title	Date

Questions?
Contact Environmental Compliance (510) 981-6629

APPENDIX C

East Bay Municipal District Sanitary Sewer Discharge Permit

EAST BAY
MUNICIPAL UTILITY DISTRICT

BENNETT K. HORENSTEIN
DIRECTOR OF WASTEWATER

CERTIFIED MAIL
(Return Receipt Requested)
Certified Mail No. 7014 2870 0001 5084 5497

October 26, 2016

Ms. Joy Brown
City of Berkeley Municipal Transfer Station
1326 Allston Way
Berkeley, CA 94702

Dear Ms. Joy Brown:

Re: Wastewater Discharge Permit No. 51407600

Enclosed is the Wastewater Discharge Permit (Permit) for the Berkeley Transfer Station located at 1201 Second Street and the Community Conservation Center located at 669 Gilman Street in Berkeley. Please read the Permit and the enclosed Wastewater Discharge Permit Standard Terms and Conditions. As a permit holder, you are legally responsible for complying with all permit conditions and requirements.

Berkeley Transfer Station shall report to the EBMUD Environmental Services Division any changes, permanent or temporary, to the premises or operations that either significantly affects the quality or volume of wastewater discharge, or deviate from the terms and conditions under which the Permit was granted.

If you have any questions regarding this Permit, please contact Marie Kulka of the Environmental Services Division at (510) 287-1727.

Sincerely,

JACQUELINE T. ZIPKIN
Manager of Environmental Services

JTZ:MK:mk

W:\NAB\IDS\Permits\Stormwater Discharge Permits\Berkeley Municipal Transfer Station\Berkeley Transfer Station permit 2016.doc

Enclosures

WASTEWATER DISCHARGE PERMIT
Terms and Conditions
APPLICANT INFORMATION

APPLICANT BUSINESS NAME			PERMIT NUMBER
Berekely Transfer Station			51407600
ADDRESS OF SITE DISCHARGING WASTEWATER			
1201 Second Street and 669 Gilman Street	Berkeley		94710
STREET ADDRESS	CITY		ZIP CODE

PERSON TO BE CONTACTED REGARDING THIS APPLICATION

NAME	EMAIL ADDRESS	PHONE NUMBER	FAX NUMBER
Joy Brown	ejbrown@ci.berkeley.ca.us	(510) 981-6629	

PERSON(S) TO RECEIVE PERMIT AND CORRESPONDENCE IF DIFFERENT THAN PERSON SIGNING APPLICATION

NAME	MAILING ADDRESS
NAME	MAILING ADDRESS

PERSON TO BE CONTACTED IN THE EVENT OF AN EMERGENCY

NAME	DAYTIME TELEPHONE NUMBER	EVENING TELEPHONE NUMBER
Joy Brown	(510) 981-6629	(510) 774-5039

AUTHORIZATION

Joy Brown, Environmental Compliance Specialist — NAME & TITLE

is authorized to sign reports, documents, and other correspondence required by this Permit.

CERTIFICATION

I understand that I am legally responsible for discharge of wastewater from the facility and for complying with the Terms and Conditions of this Wastewater Discharge Permit.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME	TITLE
Joy Brown	Environmental Compliance Specialist
E. Joy Brown (Digitally signed by E. Joy Brown DN: cn=E. Joy Brown, o=City of Berkeley, ou=Public Works, email=ejbrown@cityofberkeley.info, c=US Date: 2016.08.15 11:54:12 -07'00')	8/15/16
SIGNATURE	DATE

(TO BE SIGNED BY CHIEF EXECUTIVE OFFICER OR DULY AUTHORIZED REPRESENTATIVE. SEE CERTIFICATION REQUIREMENTS ON REVERSE)

MAILING ADDRESS	PHONE NUMBER
1326 Allston Way, Berkeley, CA 94702	(510) 981-6629

REV. 04/12

EBMUD

WASTEWATER DISCHARGE PERMIT
Terms and Conditions
PROCESS DESCRIPTION

APPLICANT BUSINESS NAME Berkeley Transfer Station

The information on this form provides a description of wastewater generating processes, characteristics of the wastewater, and waste management activities. Instructions are on the back of this form.

Permit Number: 51407600

BUSINESS ACTIVITY	Standard Industrial Classification	Business Classification Code
Solid waste transfer facility	5093, 4212	

PROCESSES

Process Description	Wastewater Characteristics	Schematic Process Number
solid construction debris	TSS, oil and grease, metals	1
general waste storage	TSS, oil and grease, COD, metals	2
commingled container storage	COD	3
glass sorting	COD	4

POLLUTION PREVENTION TECHNIQUES / BEST MANAGEMENT PRACTICES (BMPs)

Housekeeping (routine sweeping, spill cleanup), routine maintenance of equipment and vehicles, spill prevention (use of secondary containment and drip pans), covering materials with canopies, roofs, and tarps to prevent contact with potential pollutants, filter fabric, and absorbent booms.

For details in BMPs, see the attached Stormwater Pollution Prevention Plan for the Transfer Station.

PRETREATMENT

Pretreatment System	Design Capacity	Loading Rate	Size	Side Sewer Number
☐ filtration				
☐ grease trap/oil and water separator				
☐ granular activated carbon				
☐ sedimentation				
☐ pH adjustment				
☐ chlorination				
☐ chemical precipitation				
☐ other (describe)				
☒ none				

PROCESS GENERATED WASTE

Waste / Disposal Method	Annual Waste Generation Quantity	Annual Waste Generation Unit
None	--	--

EBMUD

WASTEWATER DISCHARGE PERMIT

APPLICANT BUSINESS NAME Berkeley Transfer Station

TERMS AND CONDITIONS

WATER BALANCE/STRENGTH SUMMARY

The information on this form describes the volume, source, and strength of wastewater discharged to the community sewer. Instructions are on the back of this form.

Permit Number 51407600

WATER USE AND WASTEWATER DISCHARGE BALANCE

Units expressed in: [✓] gallons per calendar day or [ ] gallons per working day (Number of working days per year____)

	Source			Wastewater Discharge to each Side Sewer					Water Diverted	Code
	EBMUD	Other	Code[1]	No.	No.	No.	No.	No.		
Sanitary										
Processes			B	21,000	4,000	-	-	-	0 gallons	-
Product										
Boiler										
Cooling										
Washing										
Irrigation										
Sub-total				21,000	4,000					

Total	All Sources	25,000	All Side Sewers	25,000	All Side Sewers + Water Diverted	25,000
Maximum Daily Discharge (gallons)			21,000	4,000		

METERED WATER

Water Meter Number	Code[3]	Percent Discharge to each Side Sewer					Total % Discharge
None							

[1]Other / Code: Compute the average gallon per day water use from non-EBMUD sources and enter the value in the Other "Sub-total" box. Do not include sources that discharge only to the stormdrain. Allocate the subtotal value to each type of water use. Enter the code(s) that identifies the source water:

A= Well Water / Groundwater *B= Stormwater* *C= Reclaimed Water* *D= Other (describe)*

[2]Water Diverted/Code: Enter the diverted volume for each type of water use. Enter the code(s) that identifies the diversion:

A= Product *B= Evaporation* *C= Irrigation* *D= Creek/Bay* *E= Rail, Truck, Vessel* *F= Other (describe)*

[3]Metered Water Code(s): E= EBMUD Meter P= Private Meter

EBMUD

WASTEWATER DISCHARGE PERMIT

APPLICANT BUSINESS NAME Berkeley Transfer Station

TERMS AND CONDITIONS

#51407600

WATER BALANCE/STRENGTH SUMMARY

WASTEWATER STRENGTH ESTIMATES		Wastewater Discharge to each Side Sewer				
		No.	No.	No.	No.	No.
Total Suspended Solids mg/L (TSS)	Average					
	Maximum	See Table 1				
Chemical Oxygen Demand (mg/L)	Average					
	Maximum					

DISCHARGE FREQUENCY

Days of Week	Monday - Friday *				
Time of Day (Start & Stop Time)	8AM to 4PM				
Volume, if Batch Discharge	21,000 max	4,000 max			

*** Discharge only occurs Monday through Friday after storm events**

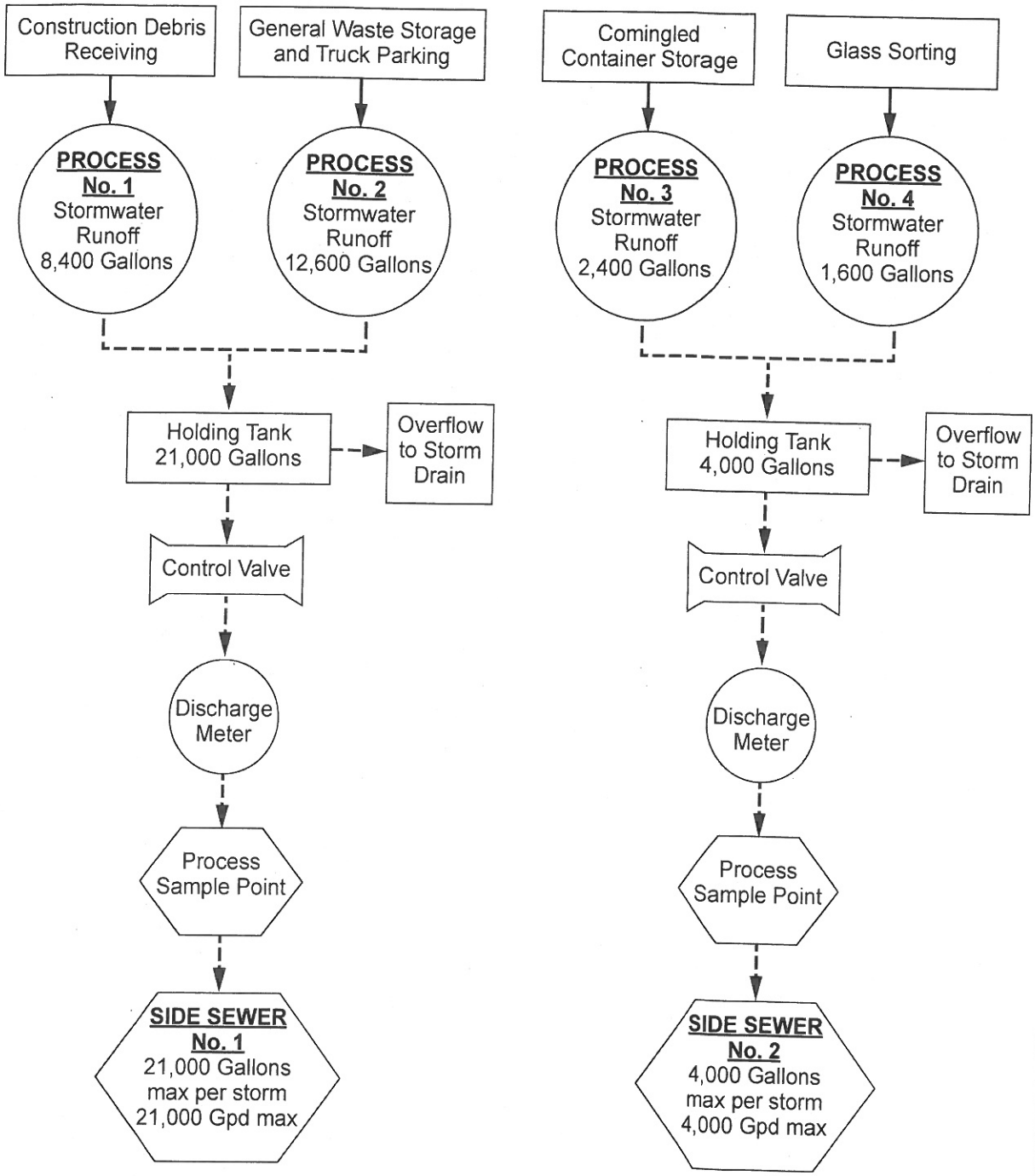
SIDE SEWER LOCATION

No.
No.
No.
No.
No.

STORMWATER AREA

Total square-foot area exposed to stormwater that drains to the sanitary sewer: 4,500 sq. ft.

Permit #51407600



LEGEND
Product Flow
Wastewater Flow

SCHEMATIC FLOW DIAGRAM
Berkeley Transfer Station
1201 Second St. and 669 Gilman St.
Berkeley, California

amec foster wheeler

Date: 08/09/2016 | Project No. 163590.025

Figure 1

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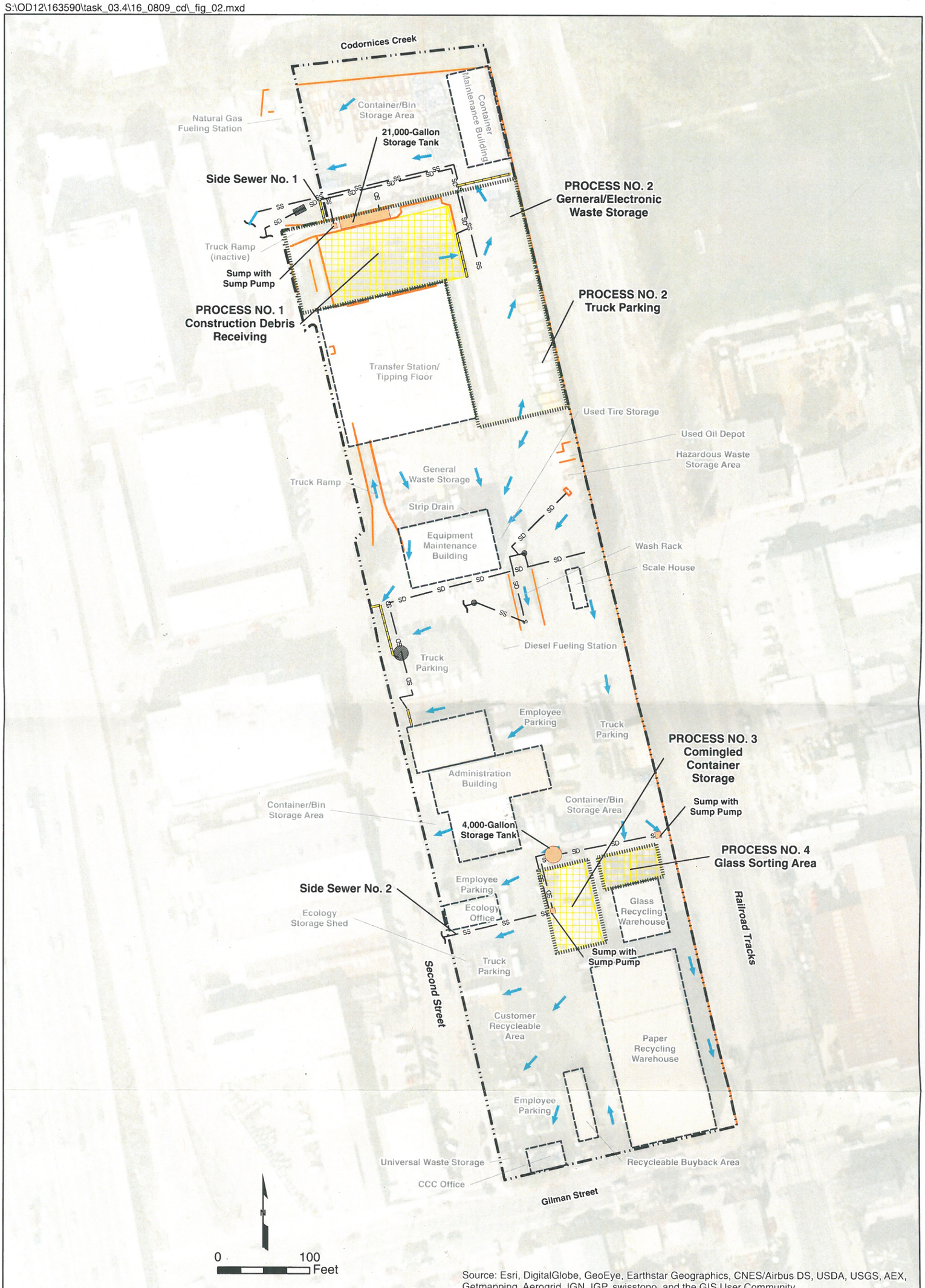


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Explanation

- Flow Arrow
- Uncovered Activity Area
- Property Boundary
- Curb/Berm
- Storm Filter Vault
- SS — Sanitary Sewer
- SD — Storm Drain
- Trench Drain
- Building
- Area Discharges to Sanitary Sewer

FACILITY LAYOUT
Berkeley Transfer Station and Recycling Center
1201 Second St.and 669 Gilman St.
Berkeley, California

amec foster wheeler

Date: 08/12/2016 | Project No. OD12163590.03.4

Figure 2

GENERAL CONDITIONS

I. Berkeley Transfer Station shall comply with all items of the East Bay Municipal Utility District Wastewater Discharge Permit Standard Terms and Conditions, most recent edition.

II. Berkeley Transfer Station shall comply with East Bay Municipal Utility District Wastewater Control Ordinance (Ordinance).

This permit waives Title I, Section 5 (a) storm water prohibition to allow the discharge of treated storm water to the sanitary sewer at 1201 Second Street and 669 Gilman Street in Berkeley.

III. Berkeley Transfer Station shall practice pollution prevention techniques to reduce or eliminate pollutants released from the facility. Wastes remaining should be recycled whenever possible.

IV. Berkeley Transfer Station shall:

a. Seal all floor drains in the equipment/container service bays to prevent contaminated or polluted wastes from entering the sanitary sewers.
b. Post a sign in the equipment and container maintenance building and the wash rack work areas indicating that the discharge of automotive materials and waste to the sanitary sewer is prohibited.
c. Provide District access to hazardous waste manifest records upon request.

COMPLIANCE REQUIREMENTS

I. Berkeley Transfer Station shall treat collected storm water according to *Schematic Flow Diagram and Facility Layout* plans.

II. Berkeley Transfer Station shall immediately cease discharge of treated storm water if not in compliance with any of the terms and conditions of this wastewater discharge permit.

III. Berkeley Transfer Station shall not discharge storm water to the sanitary sewer during a rain event or within 24 hours after a rain event, which is defined as any precipitation greater than a drizzle.

IV. Berkeley Transfer Station shall not discharge storm water to the sanitary sewer at a flow rate greater than 100 gallons per minute.

V. Berkeley Transfer Station shall maintain a discharge logbook recording the date, time, and total volume of all storm water discharged to the sanitary sewer.

VI. Berkeley Transfer Station shall implement the Best Management Practices outlined in the current Storm Water Pollution Prevention Plan associated with the Industrial Storm Water General Permit to minimize storm water contamination and maintain the storm water collection system in proper operation condition.

REPORTING REQUIREMENTS

I. Berkeley Transfer Station shall submit a semi-annual Discharge Log Report, including:

- A copy of all entries recorded in the discharge logbook, described under *Compliance Requirements,* Paragraph V., for the six-month reporting period.
- The authorized signature and certification statement.

All semi-annual reports are due on the 15th of the month subsequent to the end of the six-month reporting period. The initial report is due by January 15, 2017, for reporting period July 2016 through December 2016. The following report is due by July 15, 2017 for reporting period January 2017 through June 2017, and so on.

II. Berkeley Transfer Station shall report to the Environmental Services Division any changes, permanent or temporary, to the premise or operations that change the quality or volume of the wastewater discharge or deviate from the terms and conditions under which this Permit is granted.

WASTEWATER DISCHARGE LIMITATIONS

Berkeley Transfer Station shall not discharge wastewater to the sanitary sewer if the strength of the wastewater exceeds Ordinance wastewater discharge limits:

SELF-MONITORING REPORTING REQUIREMENTS

I. Berkeley Transfer Station shall collect a representative sample **of the first batch of effluent discharge,** as depicted in the *Schematic Flow Diagram.*

II. Berkeley Transfer Station shall submit analytical data to EBMUD for approval prior to discharge. **Discharge to the sanitary sewer is prohibited until EBMUD reviews the self-monitoring report and grants approval.**

III. The self-monitoring report shall include:

a. A signed analytical report
b. The chain of custody documentation
c. The authorized signature and certification statement

IV. The parameters to be monitored, sample type, and analytical test methods shall be in accordance with the following table:

Parameter	Sample Type	Method
Total Suspend Solids	Grab	SM 2540D
Chemical Oxygen Demand	Grab	EPA 410.4
Total Metals[1]	Grab	EPA 200.7
Oil & Grease (HC)	Grab	EPA 1664 HEM-SGT

[1] cadmium; chromium; copper; lead; nickel; silver; zinc

V. The District may require monitoring of the treated storm water if deemed necessary. Berkeley monitored the treated storm water collected from the March 10, 2016 rain event. The treatment charges included in this wastewater discharge permit are based on the storm water's measured strength. The strengths may be revised based on new sampling data received and reviewed.

VI. The designated sampling location for compliance determination shall be the final effluent designated as the Process Sample Point on the *Schematic Flow Diagram* at the side sewer number 1 (SS No. 1) and side sewer number 2 (SS No. 2) locations as designated on the *Facility Layout* plan.

INSPECTIONS

The District shall conduct random, unannounced inspections to verify Berkeley Transfer Station compliance with the terms and conditions of this wastewater discharge permit. Berkeley Transfer Station shall grant District personnel access to the facility to conduct inspections and collect samples, in addition to reviewing the discharge logbook.

ENFORCEMENT AND PENALTIES

Failure to comply with the terms and conditions of this wastewater discharge permit may result in enforcement actions, including violation follow-up fees, civil enforcement penalties, and administrative fines of up to $5,000 per day.

WASTEWATER DISCHARGE PERMIT
Terms and Conditions

Rates Effective July 1, 2016, or
Revised Rates Approved by EBMUD Board of Directors thereafter

CALCULATION OF WASTEWATER DISPOSAL SERVICE CHARGES

Metered Water Consumption:

Wastewater discharged off metered water consumption will be charged at the Business Classification Code unit rate. Charges are determined by multiplying the metered consumption by the percent discharged and then by the treatment rate.

Account Number	Meter Number	BCC Code	BCC Description	Percent Discharged	Fixed Volume Ccf / month	Meter Rate $/Ccf
51407600	40474028	6800	OFFICES	100.0%	0	$2.48

Storm water Discharges:

Unit Treatment Rates

Total Suspended Solids (TSS) =	$0.469	/pound
Chemical Oxygen Demand-Filtered (CODF) =	$0.321	/pound
Volume =	$1.085	/hundred cubic feet ($/Ccf)

Step 1: Convert concentrations of TSS and CODF to $/Ccf for each side sewer (SS).
The concentration in mg/L, multiplied by 0.00624 and the rate/pound, equals $/Ccf.
The side sewer rate is the sum of TSS + CODF + Volume.

	Side sewer #1		Side sewer #2	
	mg/L	$/Ccf	mg/L	$/Ccf
TSS	470	1.375	300	0.878
CODF	350	0.701	1600	3.205
Volume		1.085		1.085
SS rate =		$3.16		$5.17

Step 2: Determine the rate to be applied to each water meter. The meter rate is the sum of the individual side sewer contributions.

	Side sewer #1		Side sewer #2		Total
SS rate =	3.16	$/Ccf	5.17	$/Ccf	for meter
Meter No.	%	$/Ccf	%	$/Ccf	$/Ccf
Stormwater	87.0%	2.75	13.0%	0.67	3.42

Step 3: Wastewater Charges are determined by multiplying the metered volume by the percent discharged, plus any fixed volume, all multiplied by the meter rate.

Account Number	Meter Number	Units	Percent Discharged	Fixed Volume Ccf/month	Meter Rate $/Ccf
51407600	Stormwater	Ccf	0.0%	0	3.42

SD-30.7 2/91

CALCULATION OF WASTEWATER CAPACITY FEE FOR STORMWATER DISCHARGES

The wastewater capacity fee is calculated by multiplying the reported maximum monthly stormwater discharge volume by applicable fee in effect at start-up of the discharge. Each month, 1/36 of the capacity fee will be assessed, until the entire fee has been paid in 3 years.

The wastewater capacity fee is calculated as follows:

Discharge volume = 154 Ccf maximum monthly (115,561 gallons)

Unit Treatment Rates

Total Suspended Solids (TSS) =	$63.10	/pound
Chemical Oxygen Demand-Filtered (CODF) =	$46.88	/pound
Volume =	$159.07	/hundred cubic feet ($/Ccf)

SS#1

lbs/mth					
CODF (mg/l)		C.Factor		Ccf/mo	lbs/mo
350	*	0.00624	*	134.00 =	292.66
TSS (mg/l)					
470	*	0.00624	*	134.00 =	393.00

WCF

Flow	134.00	*	$159.07 =	$21,315.38
CODF	292.66	*	$46.88 =	$13,719.71
	393.00	*	$63.10 =	$24,798.00
SS#1 WCF Total:				**$59,833.09**

SS#2

lbs/mth					
CODF (mg/l)		C.Factor		Ccf/mo	lbs/mo
1600	*	0.00624	*	20.00 =	199.68
TSS (mg/l)					
300	*	0.00624	*	20.00 =	37.44

WCF

Flow	20.00	*	$159.07 =	$3,181.40
CODF	199.68	*	$46.88 =	$9,361.00
	37.44	*	$63.10 =	$2,362.46
SS#2 WCF Total:				**$14,904.86**

Total Wastewater Capacity Fee: $74,737.95

Monthly Capacity Fee applied to the first 36 months of the permit term: $2,076.05

WASTEWATER DISCHARGE PERMIT

Terms and Conditions

Rates Effective July 1, 2016, or
Revised Rates Approved by EBMUD Board of Directors thereafter

Berkeley Transfer Station
Permit No. 51407600

FEES AND WASTEWATER CHARGES

The following fees and charges are due when billed by the District:

Annual Permit Fee:	$2,450.00
Inspecton Fee*:	$1,300.00
Monthly Wastewater Capacity Fee (36 Mths):	$2,076.05

*Inspection every five years. Fee assessed after inspection is conducted. The District may revised the permit to increase inspection frequency as necessary.

WASTEWATER DISPOSAL SERVICE CHARGE

Account Number	Meter Number	BCC Code	BCC Description	Percent Discharged	Fixed Volume Ccf / month	Meter Rate $/Ccf
51407600	40474028	6800	OFFICES	100%	0	$2.48
51407600	Stormwater				*	$3.42

* Volume based discharge values reported in the semi-annual reports. Fee will be assessed upon receipt of the Discharge Report.

The District may change the terms and conditions of a Wastewater Discharge Permit, including changing the average limits on the elements of wastewater strength and rates and charges, from time to time as circumstances may require. Treatment rate updates shall be provided by means of a rate revision letter. The District shall allow a discharger reasonable time to comply with any District required changes in the permit except that a change in average limits of wastewater strength shall immediately affect calculation of the wastewater disposal charge.

Authorization

Permit Holder shall report to EBMUD, Wastewater Department any changes, permanent or temporary, to the premises or operations that significantly change the quality or volume of the wastewater discharge or deviation from the terms and conditions under which this permit is granted.

Permit Holder is hereby authorized to discharge wastewater to the community sewer, subject to said Applicant's compliance with *East Bay Municipal Utility District Wastewater Control Ordinance* as well as the permit terms and conditions.

Effective: 10/24/16 _____ 10/24/16

Director, Wastewater Department — Date

EBMUD

SPECIAL DISCHARGE PERMIT
Terms and Conditions

PERMIT NUMBER: 51407600

GENERAL CONDITIONS

Berkeley Transfer Station shall comply with the provisions of the following two documents:

- EBMUD Wastewater Control Ordinance (Wastewater Control Ordinance)
- EBMUD Special Discharge Permit Standard Terms and Conditions, most recent edition

II. This Special Discharge Permit is a waiver of Wastewater Control Ordinance, Title I, Section 5, which prohibits the discharge of stormwater, drainage water, and groundwater to the community sewer.

III. Berkeley Transfer Station shall discharge Special Discharge Wastewater only from the site described in the Special Discharge Permit Applicant Form.

IV. Berkeley Transfer Station shall immediately cease discharge of treated or managed Special Discharge Wastewater if not in compliance with any of the terms and conditions of this Special Discharge Permit.

V. Berkeley Transfer Station shall not discharge Special Discharge Wastewater authorized by this Special Discharge Permit after the expiration date.

COMPLIANCE REQUIREMENTS

I. Berkeley Transfer Station shall pretreat/manage, including sediment control, all Special Discharge Wastewater prior to discharge to the community sewer. Pretreatment or management shall be sufficient to achieve compliance with the discharge limits established in this Special Discharge Permit.

II. Berkeley Transfer Station shall post a sign in the work area stating, "All Wastewater Discharge must comply with the Special Discharge Permit."

III. Berkeley Transfer Station shall not discharge Special Discharge Wastewater to the community sewer at a flow rate greater than 100 gallons per minute. The flow rate for discharges made directly to the EBMUD interceptor is under the discretion of the EBMUD Construction Inspector.

IV. Berkeley Transfer Station shall not discharge Special Discharge Wastewater to the community sewer during a rain event or within 24 hours after a rain event, which is defined as any precipitation greater than a drizzle.

V. Berkeley Transfer Station shall obtain permission from the applicable local agency to discharge Special Discharge Wastewater to the community sewer. Note that local sewer authorities may have different or more restrictive discharge requirements than EBMUD.

VI. Berkeley Transfer Station shall discharge all Special Discharge Wastewater to the community sewer through a totalizing flow meter.

VII. Berkeley Transfer Station shall maintain a discharge logbook. Each entry shall include the date, time, source, and total volume of all Special Discharge Wastewater discharged to the community sewer.

REPORTING REQUIREMENTS

I. Berkeley Transfer Station shall submit quarterly discharge log reports, including:

- A copy of discharge logs which include dates, times, volumes, flow totalizer readings, and the total volume of Special Discharge Wastewater discharged to the sanitary sewer to date.
- The authorized signature and certification statement.

II. The discharge log report is due according to the following schedule:

Discharge Period	Discharge Log Due
July 1 – December 31, 2021, 2022, 2023, 2024, 2025	January 31, 2022, 2023, 2024, 2025
January 1 – June 30, 2022, 2023, 2024, 2025, 2026	July 31, 2022, 2023, 2024, 2025, 2026

III. Submit all reports to EBMUD by email to adam.kern@ebmud.com.

SELF-MONITORING REQUIREMENTS

I. This permit requires Berkeley Transfer Station to submit analytical data to EBMUD due by January 31, 2022 for samples at side sewer no. 1 (transfer station), and side sewer no. 2 recycling center. The parameters to be monitored, sample type, and analytical test methods shall be in accordance with the following table:

Parameter	Sample Type	Method
Metals *(arsenic, cadmium, chromium, copper, iron, lead, nickel, silver, zinc)*	Grab	EPA 200.8 or 200.7
Oil & Grease (HC)	Grab	EPA 1664 HEM-SGT
Total Suspended Solids	Grab	SM2540D
Chemical Oxygen Demand	Grab	EPA 410.4

EBMUD may prohibit the discharge of the Special Discharge Wastewater and require additional treatment if any constituents exceed Wastewater Discharge Limits set forth by the permit. Subsequent testing may be required depending on the initial test results.

II. The self-monitoring report shall be submitted by email to adam.kern@ebmud.com. The self-monitoring report shall include:

- A signed analytical report
- The chain of custody documentation
- The authorized signature and certification statement

WASTEWATER DISCHARGE LIMITS

I. Berkeley Transfer Station shall not discharge Special Discharge Wastewater to the community sewer if the strength of the wastewater exceeds Wastewater Control Ordinance Discharge Limits.

INSPECTIONS

The District may conduct random, unannounced inspections to verify compliance with the terms and conditions of this Special Discharge Permit. Berkeley Transfer Station shall grant District personnel site access to conduct inspections and collect Special Discharge Wastewater samples.

ENFORCEMENT AND PENALTIES

Failure to comply with the terms and conditions of this Special Discharge Permit may result in enforcement actions, including violation follow-up fees, civil enforcement penalties, and administrative fines of up to $5,000 per day.

RATES AND CHARGES

This Special Discharge Permit may be amended to include changes to rates and charges that may be established by the District during the term of this Special Discharge Permit.

AUTHORIZATION

Berkeley Transfer Station is hereby authorized to discharge Special Discharge Wastewater to the community sewer, subject to compliance with *EBMUD Wastewater Control Ordinance, Special Discharge Permit Standard Terms and Conditions*, and established billing conditions.

Expiration: October 25, 2026

_____ _____

Director, Wastewater Department — Effective Date

EAST BAY
MUNICIPAL UTILITY DISTRICT

BENNETT K. HORENSTEIN
DIRECTOR OF WASTEWATER

CERTIFIED MAIL
(Return Receipt Requested)
Certified Mail No. 7014 2870 0001 5084 5497

October 26, 2016

Ms. Joy Brown
City of Berkeley Municipal Transfer Station
1326 Allston Way
Berkeley, CA 94702

Dear Ms. Joy Brown:

Re: Wastewater Discharge Permit No. 51407600

Enclosed is the Wastewater Discharge Permit (Permit) for the Berkeley Transfer Station located at 1201 Second Street and the Community Conservation Center located at 669 Gilman Street in Berkeley. Please read the Permit and the enclosed Wastewater Discharge Permit Standard Terms and Conditions. As a permit holder, you are legally responsible for complying with all permit conditions and requirements.

Berkeley Transfer Station shall report to the EBMUD Environmental Services Division any changes, permanent or temporary, to the premises or operations that either significantly affects the quality or volume of wastewater discharge, or deviate from the terms and conditions under which the Permit was granted.

If you have any questions regarding this Permit, please contact Marie Kulka of the Environmental Services Division at (510) 287-1727.

Sincerely,

JACQUELINE T. ZIPKIN
Manager of Environmental Services

JTZ:MK:mk

W:\NAB\IDS\Permits\Stormwater Discharge Permits\Berkeley Municipal Transfer Station\Berkeley Transfer Station permit 2016.doc

Enclosures

WASTEWATER DISCHARGE PERMIT
Terms and Conditions
APPLICANT INFORMATION

APPLICANT BUSINESS NAME			PERMIT NUMBER
Berekely Transfer Station			51407600
ADDRESS OF SITE DISCHARGING WASTEWATER			
1201 Second Street and 669 Gilman Street	Berkeley		94710
STREET ADDRESS	CITY		ZIP CODE

PERSON TO BE CONTACTED REGARDING THIS APPLICATION

NAME	EMAIL ADDRESS	PHONE NUMBER	FAX NUMBER
Joy Brown	ejbrown@ci.berkeley.ca.us	(510) 981-6629	

PERSON(S) TO RECEIVE PERMIT AND CORRESPONDENCE IF DIFFERENT THAN PERSON SIGNING APPLICATION

NAME	MAILING ADDRESS
NAME	MAILING ADDRESS

PERSON TO BE CONTACTED IN THE EVENT OF AN EMERGENCY

NAME	DAYTIME TELEPHONE NUMBER	EVENING TELEPHONE NUMBER
Joy Brown	(510) 981-6629	(510) 774-5039

AUTHORIZATION

Joy Brown, Environmental Compliance Specialist — NAME & TITLE

is authorized to sign reports, documents, and other correspondence required by this Permit.

CERTIFICATION

I understand that I am legally responsible for discharge of wastewater from the facility and for complying with the Terms and Conditions of this Wastewater Discharge Permit.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME	TITLE
Joy Brown	Environmental Compliance Specialist
E. Joy Brown (Digitally signed by E. Joy Brown DN: cn=E. Joy Brown, o=City of Berkeley, ou=Public Works, email=ejbrown@cityofberkeley.info, c=US Date: 2016.08.15 11:54:12 -07'00')	8/15/16
SIGNATURE	DATE

(TO BE SIGNED BY CHIEF EXECUTIVE OFFICER OR DULY AUTHORIZED REPRESENTATIVE. SEE CERTIFICATION REQUIREMENTS ON REVERSE)

MAILING ADDRESS	PHONE NUMBER
1326 Allston Way, Berkeley, CA 94702	(510) 981-6629

REV. 04/12

EBMUD

WASTEWATER DISCHARGE PERMIT
Terms and Conditions
PROCESS DESCRIPTION

APPLICANT BUSINESS NAME Berkeley Transfer Station

The information on this form provides a description of wastewater generating processes, characteristics of the wastewater, and waste management activities. Instructions are on the back of this form.

Permit Number: 51407600

BUSINESS ACTIVITY	Standard Industrial Classification	Business Classification Code
Solid waste transfer facility	5093, 4212	

PROCESSES

Process Description	Wastewater Characteristics	Schematic Process Number
solid construction debris	TSS, oil and grease, metals	1
general waste storage	TSS, oil and grease, COD, metals	2
commingled container storage	COD	3
glass sorting	COD	4

POLLUTION PREVENTION TECHNIQUES / BEST MANAGEMENT PRACTICES (BMPs)

Housekeeping (routine sweeping, spill cleanup), routine maintenance of equipment and vehicles, spill prevention (use of secondary containment and drip pans), covering materials with canopies, roofs, and tarps to prevent contact with potential pollutants, filter fabric, and absorbent booms.

For details in BMPs, see the attached Stormwater Pollution Prevention Plan for the Transfer Station.

PRETREATMENT

Pretreatment System	Design Capacity	Loading Rate	Size	Side Sewer Number
☐ filtration				
☐ grease trap/oil and water separator				
☐ granular activated carbon				
☐ sedimentation				
☐ pH adjustment				
☐ chlorination				
☐ chemical precipitation				
☐ other (describe)				
☒ none				

PROCESS GENERATED WASTE

Waste / Disposal Method	Annual Waste Generation Quantity	Annual Waste Generation Unit
None	--	--

EBMUD

WASTEWATER DISCHARGE PERMIT

APPLICANT BUSINESS NAME Berkeley Transfer Station

TERMS AND CONDITIONS

WATER BALANCE/STRENGTH SUMMARY

The information on this form describes the volume, source, and strength of wastewater discharged to the community sewer. Instructions are on the back of this form.

Permit Number 51407600

WATER USE AND WASTEWATER DISCHARGE BALANCE

Units expressed in: [✓] gallons per calendar day or [ ] gallons per working day (Number of working days per year____)

	Source			Wastewater Discharge to each Side Sewer					Water Diverted	Code
	EBMUD	Other	Code[1]	No.	No.	No.	No.	No.		
Sanitary										
Processes			B	21,000	4,000	-	-	-	0 gallons	-
Product										
Boiler										
Cooling										
Washing										
Irrigation										
Sub-total				21,000	4,000					

Total	All Sources	25,000	All Side Sewers	25,000	All Side Sewers + Water Diverted	25,000
Maximum Daily Discharge (gallons)			21,000	4,000		

METERED WATER

Water Meter Number	Code[3]	Percent Discharge to each Side Sewer					Total % Discharge
None							

[1]Other / Code: Compute the average gallon per day water use from non-EBMUD sources and enter the value in the Other "Sub-total" box. Do not include sources that discharge only to the stormdrain. Allocate the subtotal value to each type of water use. Enter the code(s) that identifies the source water:

A= Well Water / Groundwater *B= Stormwater* *C= Reclaimed Water* *D= Other (describe)*

[2]Water Diverted/Code: Enter the diverted volume for each type of water use. Enter the code(s) that identifies the diversion:

A= Product *B= Evaporation* *C= Irrigation* *D= Creek/Bay* *E= Rail, Truck, Vessel* *F= Other (describe)*

[3]Metered Water Code(s): E= EBMUD Meter P= Private Meter

EBMUD

WASTEWATER DISCHARGE PERMIT

APPLICANT BUSINESS NAME Berkeley Transfer Station

TERMS AND CONDITIONS

#51407600

WATER BALANCE/STRENGTH SUMMARY

WASTEWATER STRENGTH ESTIMATES		Wastewater Discharge to each Side Sewer				
		No.	No.	No.	No.	No.
Total Suspended Solids mg/L (TSS)	Average					
	Maximum	See Table 1				
Chemical Oxygen Demand (mg/L)	Average					
	Maximum					

DISCHARGE FREQUENCY

Days of Week	Monday - Friday *				
Time of Day (Start & Stop Time)	8AM to 4PM				
Volume, if Batch Discharge	21,000 max	4,000 max			

*** Discharge only occurs Monday through Friday after storm events**

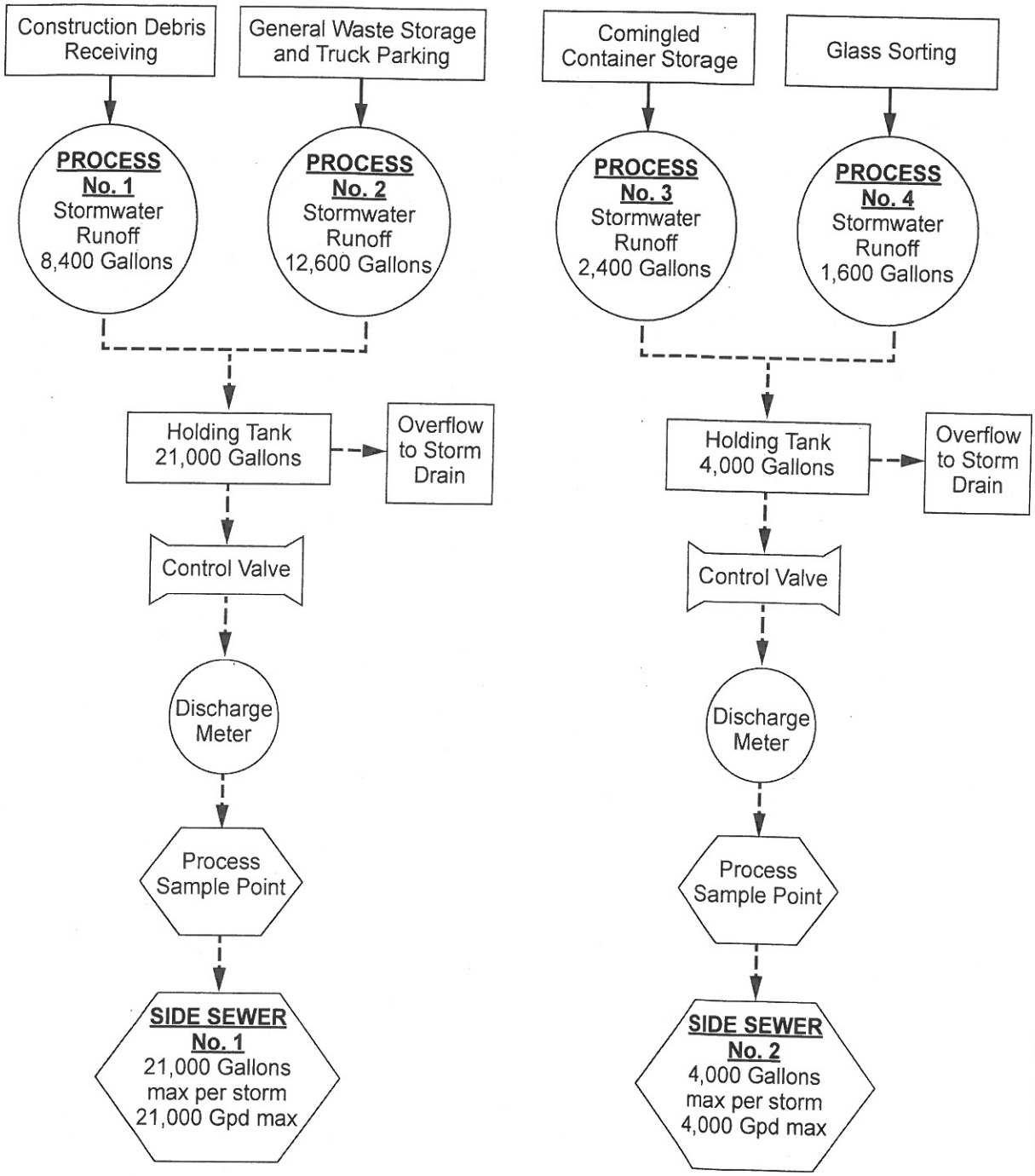
SIDE SEWER LOCATION

No.
No.
No.
No.
No.

STORMWATER AREA

Total square-foot area exposed to stormwater that drains to the sanitary sewer: 4,500 sq. ft.

Permit #51407600



LEGEND
Product Flow
Wastewater Flow

SCHEMATIC FLOW DIAGRAM
Berkeley Transfer Station
1201 Second St. and 669 Gilman St.
Berkeley, California

amec foster wheeler

Date: 08/09/2016 | Project No. 163590.025

Figure 1

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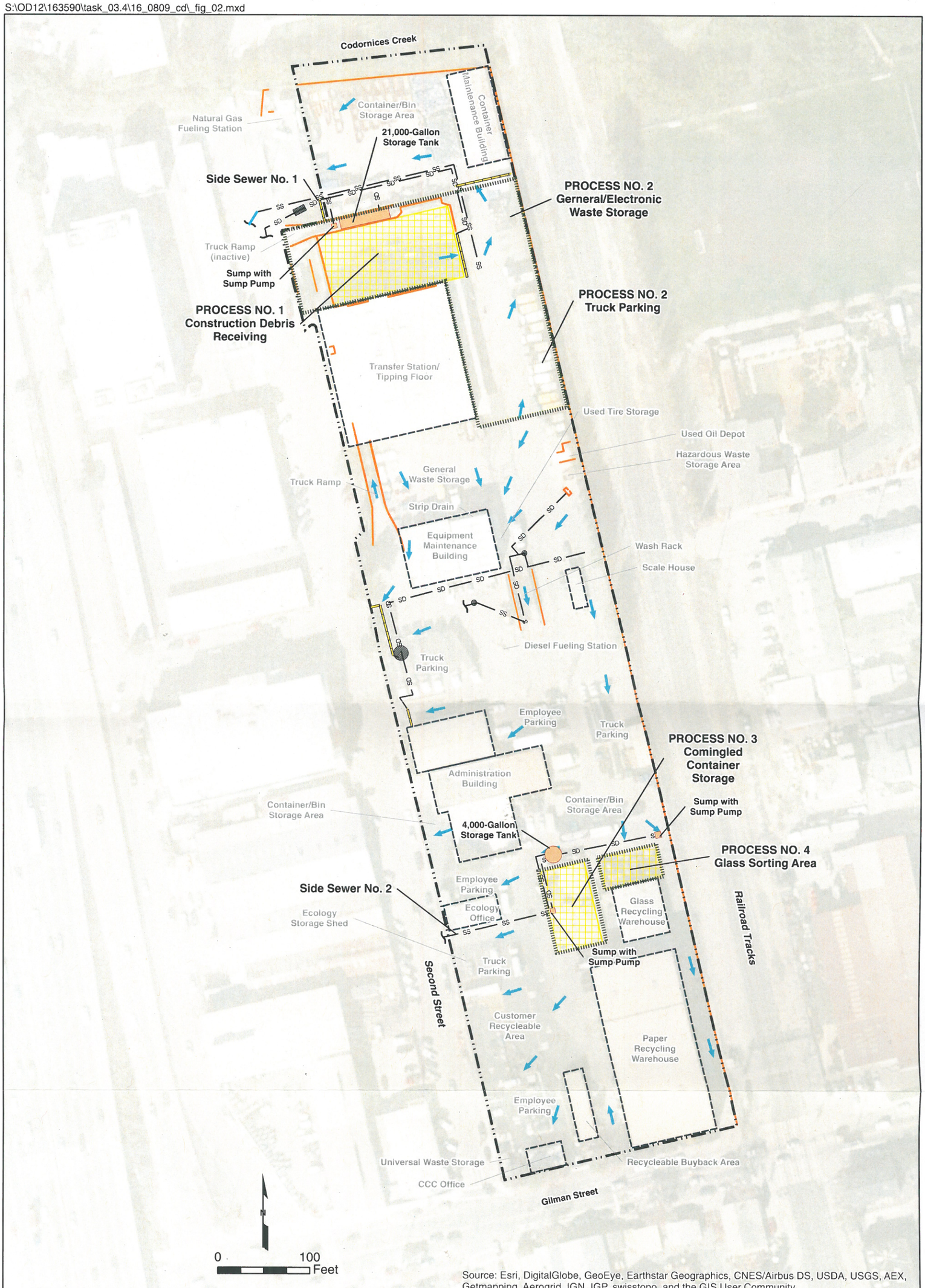


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

Explanation

- Flow Arrow
- Uncovered Activity Area
- Property Boundary
- Curb/Berm
- Storm Filter Vault
- SS — Sanitary Sewer
- SD — Storm Drain
- Trench Drain
- Building
- Area Discharges to Sanitary Sewer

FACILITY LAYOUT
Berkeley Transfer Station and Recycling Center
1201 Second St.and 669 Gilman St.
Berkeley, California

amec foster wheeler

Date: 08/12/2016 | Project No. OD12163590.03.4

Figure 2

GENERAL CONDITIONS

I. Berkeley Transfer Station shall comply with all items of the East Bay Municipal Utility District Wastewater Discharge Permit Standard Terms and Conditions, most recent edition.

II. Berkeley Transfer Station shall comply with East Bay Municipal Utility District Wastewater Control Ordinance (Ordinance).

This permit waives Title I, Section 5 (a) storm water prohibition to allow the discharge of treated storm water to the sanitary sewer at 1201 Second Street and 669 Gilman Street in Berkeley.

III. Berkeley Transfer Station shall practice pollution prevention techniques to reduce or eliminate pollutants released from the facility. Wastes remaining should be recycled whenever possible.

IV. Berkeley Transfer Station shall:

a. Seal all floor drains in the equipment/container service bays to prevent contaminated or polluted wastes from entering the sanitary sewers.
b. Post a sign in the equipment and container maintenance building and the wash rack work areas indicating that the discharge of automotive materials and waste to the sanitary sewer is prohibited.
c. Provide District access to hazardous waste manifest records upon request.

COMPLIANCE REQUIREMENTS

I. Berkeley Transfer Station shall treat collected storm water according to *Schematic Flow Diagram and Facility Layout* plans.

II. Berkeley Transfer Station shall immediately cease discharge of treated storm water if not in compliance with any of the terms and conditions of this wastewater discharge permit.

III. Berkeley Transfer Station shall not discharge storm water to the sanitary sewer during a rain event or within 24 hours after a rain event, which is defined as any precipitation greater than a drizzle.

IV. Berkeley Transfer Station shall not discharge storm water to the sanitary sewer at a flow rate greater than 100 gallons per minute.

V. Berkeley Transfer Station shall maintain a discharge logbook recording the date, time, and total volume of all storm water discharged to the sanitary sewer.

VI. Berkeley Transfer Station shall implement the Best Management Practices outlined in the current Storm Water Pollution Prevention Plan associated with the Industrial Storm Water General Permit to minimize storm water contamination and maintain the storm water collection system in proper operation condition.

REPORTING REQUIREMENTS

I. Berkeley Transfer Station shall submit a semi-annual Discharge Log Report, including:

- A copy of all entries recorded in the discharge logbook, described under *Compliance Requirements,* Paragraph V., for the six-month reporting period.
- The authorized signature and certification statement.

All semi-annual reports are due on the 15th of the month subsequent to the end of the six-month reporting period. The initial report is due by January 15, 2017, for reporting period July 2016 through December 2016. The following report is due by July 15, 2017 for reporting period January 2017 through June 2017, and so on.

II. Berkeley Transfer Station shall report to the Environmental Services Division any changes, permanent or temporary, to the premise or operations that change the quality or volume of the wastewater discharge or deviate from the terms and conditions under which this Permit is granted.

WASTEWATER DISCHARGE LIMITATIONS

Berkeley Transfer Station shall not discharge wastewater to the sanitary sewer if the strength of the wastewater exceeds Ordinance wastewater discharge limits:

SELF-MONITORING REPORTING REQUIREMENTS

I. Berkeley Transfer Station shall collect a representative sample **of the first batch of effluent discharge,** as depicted in the *Schematic Flow Diagram.*

II. Berkeley Transfer Station shall submit analytical data to EBMUD for approval prior to discharge. **Discharge to the sanitary sewer is prohibited until EBMUD reviews the self-monitoring report and grants approval.**

III. The self-monitoring report shall include:

a. A signed analytical report
b. The chain of custody documentation
c. The authorized signature and certification statement

IV. The parameters to be monitored, sample type, and analytical test methods shall be in accordance with the following table:

Parameter	Sample Type	Method
Total Suspend Solids	Grab	SM 2540D
Chemical Oxygen Demand	Grab	EPA 410.4
Total Metals[1]	Grab	EPA 200.7
Oil & Grease (HC)	Grab	EPA 1664 HEM-SGT

[1] cadmium; chromium; copper; lead; nickel; silver; zinc

V. The District may require monitoring of the treated storm water if deemed necessary. Berkeley monitored the treated storm water collected from the March 10, 2016 rain event. The treatment charges included in this wastewater discharge permit are based on the storm water's measured strength. The strengths may be revised based on new sampling data received and reviewed.

VI. The designated sampling location for compliance determination shall be the final effluent designated as the Process Sample Point on the *Schematic Flow Diagram* at the side sewer number 1 (SS No. 1) and side sewer number 2 (SS No. 2) locations as designated on the *Facility Layout* plan.

INSPECTIONS

The District shall conduct random, unannounced inspections to verify Berkeley Transfer Station compliance with the terms and conditions of this wastewater discharge permit. Berkeley Transfer Station shall grant District personnel access to the facility to conduct inspections and collect samples, in addition to reviewing the discharge logbook.

ENFORCEMENT AND PENALTIES

Failure to comply with the terms and conditions of this wastewater discharge permit may result in enforcement actions, including violation follow-up fees, civil enforcement penalties, and administrative fines of up to $5,000 per day.

WASTEWATER DISCHARGE PERMIT
Terms and Conditions

Rates Effective July 1, 2016, or
Revised Rates Approved by EBMUD Board of Directors thereafter

CALCULATION OF WASTEWATER DISPOSAL SERVICE CHARGES

Metered Water Consumption:

Wastewater discharged off metered water consumption will be charged at the Business Classification Code unit rate. Charges are determined by multiplying the metered consumption by the percent discharged and then by the treatment rate.

Account Number	Meter Number	BCC Code	BCC Description	Percent Discharged	Fixed Volume Ccf / month	Meter Rate $/Ccf
51407600	40474028	6800	OFFICES	100.0%	0	$2.48

Storm water Discharges:

Unit Treatment Rates

Total Suspended Solids (TSS) =	$0.469	/pound
Chemical Oxygen Demand-Filtered (CODF) =	$0.321	/pound
Volume =	$1.085	/hundred cubic feet ($/Ccf)

Step 1: Convert concentrations of TSS and CODF to $/Ccf for each side sewer (SS).
The concentration in mg/L, multiplied by 0.00624 and the rate/pound, equals $/Ccf.
The side sewer rate is the sum of TSS + CODF + Volume.

	Side sewer #1		Side sewer #2	
	mg/L	$/Ccf	mg/L	$/Ccf
TSS	470	1.375	300	0.878
CODF	350	0.701	1600	3.205
Volume		1.085		1.085
SS rate =		$3.16		$5.17

Step 2: Determine the rate to be applied to each water meter. The meter rate is the sum of the individual side sewer contributions.

	Side sewer #1		Side sewer #2		Total
SS rate =	3.16	$/Ccf	5.17	$/Ccf	for meter
Meter No.	%	$/Ccf	%	$/Ccf	$/Ccf
Stormwater	87.0%	2.75	13.0%	0.67	3.42

Step 3: Wastewater Charges are determined by multiplying the metered volume by the percent discharged, plus any fixed volume, all multiplied by the meter rate.

Account Number	Meter Number	Units	Percent Discharged	Fixed Volume Ccf/month	Meter Rate $/Ccf
51407600	Stormwater	Ccf	0.0%	0	3.42

SD-30.7 2/91

CALCULATION OF WASTEWATER CAPACITY FEE FOR STORMWATER DISCHARGES

The wastewater capacity fee is calculated by multiplying the reported maximum monthly stormwater discharge volume by applicable fee in effect at start-up of the discharge. Each month, 1/36 of the capacity fee will be assessed, until the entire fee has been paid in 3 years.

The wastewater capacity fee is calculated as follows:

Discharge volume = 154 Ccf maximum monthly (115,561 gallons)

Unit Treatment Rates

Total Suspended Solids (TSS) =	$63.10	/pound
Chemical Oxygen Demand-Filtered (CODF) =	$46.88	/pound
Volume =	$159.07	/hundred cubic feet ($/Ccf)

SS#1

lbs/mth					
CODF (mg/l)		C.Factor		Ccf/mo	lbs/mo
350	*	0.00624	*	134.00 =	292.66
TSS (mg/l)					
470	*	0.00624	*	134.00 =	393.00

WCF

Flow	134.00	*	$159.07 =	$21,315.38
CODF	292.66	*	$46.88 =	$13,719.71
	393.00	*	$63.10 =	$24,798.00
SS#1 WCF Total:				**$59,833.09**

SS#2

lbs/mth					
CODF (mg/l)		C.Factor		Ccf/mo	lbs/mo
1600	*	0.00624	*	20.00 =	199.68
TSS (mg/l)					
300	*	0.00624	*	20.00 =	37.44

WCF

Flow	20.00	*	$159.07 =	$3,181.40
CODF	199.68	*	$46.88 =	$9,361.00
	37.44	*	$63.10 =	$2,362.46
SS#2 WCF Total:				**$14,904.86**

Total Wastewater Capacity Fee: $74,737.95

Monthly Capacity Fee applied to the first 36 months of the permit term: $2,076.05

WASTEWATER DISCHARGE PERMIT

Terms and Conditions

Rates Effective July 1, 2016, or
Revised Rates Approved by EBMUD Board of Directors thereafter

Berkeley Transfer Station
Permit No. 51407600

FEES AND WASTEWATER CHARGES

The following fees and charges are due when billed by the District:

Annual Permit Fee:	$2,450.00
Inspecton Fee*:	$1,300.00
Monthly Wastewater Capacity Fee (36 Mths):	$2,076.05

*Inspection every five years. Fee assessed after inspection is conducted. The District may revised the permit to increase inspection frequency as necessary.

WASTEWATER DISPOSAL SERVICE CHARGE

Account Number	Meter Number	BCC Code	BCC Description	Percent Discharged	Fixed Volume Ccf / month	Meter Rate $/Ccf
51407600	40474028	6800	OFFICES	100%	0	$2.48
51407600	Stormwater				*	$3.42

* Volume based discharge values reported in the semi-annual reports. Fee will be assessed upon receipt of the Discharge Report.

The District may change the terms and conditions of a Wastewater Discharge Permit, including changing the average limits on the elements of wastewater strength and rates and charges, from time to time as circumstances may require. Treatment rate updates shall be provided by means of a rate revision letter. The District shall allow a discharger reasonable time to comply with any District required changes in the permit except that a change in average limits of wastewater strength shall immediately affect calculation of the wastewater disposal charge.

Authorization

Permit Holder shall report to EBMUD, Wastewater Department any changes, permanent or temporary, to the premises or operations that significantly change the quality or volume of the wastewater discharge or deviation from the terms and conditions under which this permit is granted.

Permit Holder is hereby authorized to discharge wastewater to the community sewer, subject to said Applicant's compliance with *East Bay Municipal Utility District Wastewater Control Ordinance* as well as the permit terms and conditions.

Effective: 10/24/16 _____ 10/24/16

Director, Wastewater Department — Date

WASTEWATER DISCHARGE PERMIT
Terms and Conditions
APPLICANT INFORMATION

APPLICANT BUSINESS NAME			PERMIT NUMBER
Berekely Transfer Station			51407600
ADDRESS OF SITE DISCHARGING WASTEWATER			
1201 Second Street and 669 Gilman Street	Berkeley		94710
STREET ADDRESS	CITY		ZIP CODE

PERSON TO BE CONTACTED REGARDING THIS APPLICATION

NAME	EMAIL ADDRESS	PHONE NUMBER	FAX NUMBER
Joy Brown	ejbrown@ci.berkeley.ca.us	(510) 981-6629	

PERSON(S) TO RECEIVE PERMIT AND CORRESPONDENCE IF DIFFERENT THAN PERSON SIGNING APPLICATION

NAME	MAILING ADDRESS
NAME	MAILING ADDRESS

PERSON TO BE CONTACTED IN THE EVENT OF AN EMERGENCY

NAME	DAYTIME TELEPHONE NUMBER	EVENING TELEPHONE NUMBER
Joy Brown	(510) 981-6629	(510) 774-5039

AUTHORIZATION

Joy Brown, Environmental Compliance Specialist — NAME & TITLE

is authorized to sign reports, documents, and other correspondence required by this Permit.

CERTIFICATION

I understand that I am legally responsible for discharge of wastewater from the facility and for complying with the Terms and Conditions of this Wastewater Discharge Permit.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME	TITLE
Joy Brown	Environmental Compliance Specialist
E. Joy Brown (Digitally signed by E. Joy Brown DN: cn=E. Joy Brown, o=City of Berkeley, ou=Public Works, email=ejbrown@cityofberkeley.info, c=US Date: 2016.08.15 11:54:12 -07'00')	8/15/16
SIGNATURE	DATE

(TO BE SIGNED BY CHIEF EXECUTIVE OFFICER OR DULY AUTHORIZED REPRESENTATIVE. SEE CERTIFICATION REQUIREMENTS ON REVERSE)

MAILING ADDRESS	PHONE NUMBER
1326 Allston Way, Berkeley, CA 94702	(510) 981-6629

REV. 04/12

EBMUD

WASTEWATER DISCHARGE PERMIT
Terms and Conditions
PROCESS DESCRIPTION

APPLICANT BUSINESS NAME Berkeley Transfer Station

The information on this form provides a description of wastewater generating processes, characteristics of the wastewater, and waste management activities. Instructions are on the back of this form.

Permit Number: 51407600

BUSINESS ACTIVITY	Standard Industrial Classification	Business Classification Code
Solid waste transfer facility	5093, 4212	

PROCESSES

Process Description	Wastewater Characteristics	Schematic Process Number
solid construction debris	TSS, oil and grease, metals	1
general waste storage	TSS, oil and grease, COD, metals	2
commingled container storage	COD	3
glass sorting	COD	4

POLLUTION PREVENTION TECHNIQUES / BEST MANAGEMENT PRACTICES (BMPs)

Housekeeping (routine sweeping, spill cleanup), routine maintenance of equipment and vehicles, spill prevention (use of secondary containment and drip pans), covering materials with canopies, roofs, and tarps to prevent contact with potential pollutants, filter fabric, and absorbent booms.

For details in BMPs, see the attached Stormwater Pollution Prevention Plan for the Transfer Station.

PRETREATMENT

Pretreatment System	Design Capacity	Loading Rate	Size	Side Sewer Number
☐ filtration				
☐ grease trap/oil and water separator				
☐ granular activated carbon				
☐ sedimentation				
☐ pH adjustment				
☐ chlorination				
☐ chemical precipitation				
☐ other (describe)				
☒ none				

PROCESS GENERATED WASTE

Waste / Disposal Method	Annual Waste Generation Quantity	Annual Waste Generation Unit
None	--	--

EBMUD

WASTEWATER DISCHARGE PERMIT

APPLICANT BUSINESS NAME Berkeley Transfer Station

TERMS AND CONDITIONS

WATER BALANCE/STRENGTH SUMMARY

The information on this form describes the volume, source, and strength of wastewater discharged to the community sewer. Instructions are on the back of this form.

Permit Number 5140760D

WATER USE AND WASTEWATER DISCHARGE BALANCE

Units expressed in: [✓] gallons per calendar day or [ ] gallons per working day (Number of working days per year____)

	Source			Wastewater Discharge to each Side Sewer					Water Diverted	Code
	EBMUD	Other	Code[1]	No.	No.	No.	No.	No.		
Sanitary										
Processes			B	21,000	~~4,000~~ 8,000		-	-	0 gallons	-
Product										
Boiler										
Cooling										
Washing										
Irrigation										
Sub-total		29,000		21,000	~~4,000~~ 8,000					
Total	All Sources	~~25,000~~		All Side Sewers	25,000		All Side Sewers + Water Diverted		29,000 ~~25,000~~	
Maximum Daily Discharge (gallons)				21,000	~~4,000~~ 8,000					

METERED WATER

Water Meter Number	Code[3]	Percent Discharge to each Side Sewer					Total % Discharge
None							

[1]Other / Code: Compute the average gallon per day water use from non-EBMUD sources and enter the value in the Other "Sub-total" box. Do not include sources that discharge only to the stormdrain. Allocate the subtotal value to each type of water use. Enter the code(s) that identifies the source water:

A= Well Water / Groundwater *B= Stormwater* *C= Reclaimed Water* *D= Other (describe)*

[2]Water Diverted/Code: Enter the diverted volume for each type of water use. Enter the code(s) that identifies the diversion:

A= Product *B= Evaporation* *C= Irrigation* *D= Creek/Bay* *E= Rail, Truck, Vessel* *F= Other (describe)*

[3]Metered Water Code(s): E= EBMUD Meter P= Private Meter

EBMUD

WASTEWATER DISCHARGE PERMIT

APPLICANT BUSINESS NAME Berkeley Transfer Station

TERMS AND CONDITIONS

#51407600

WATER BALANCE/STRENGTH SUMMARY

WASTEWATER STRENGTH ESTIMATES		Wastewater Discharge to each Side Sewer				
		No.	No.	No.	No.	No.
Total Suspended Solids mg/L (TSS)	Average					
	Maximum	See Table 1				
Chemical Oxygen Demand (mg/L)	Average					
	Maximum					

DISCHARGE FREQUENCY

Days of Week	Monday - Friday *				
Time of Day (Start & Stop Time)	8AM to 4PM				
Volume, if Batch Discharge	21,000 max	~~4,000~~ max	8,000		

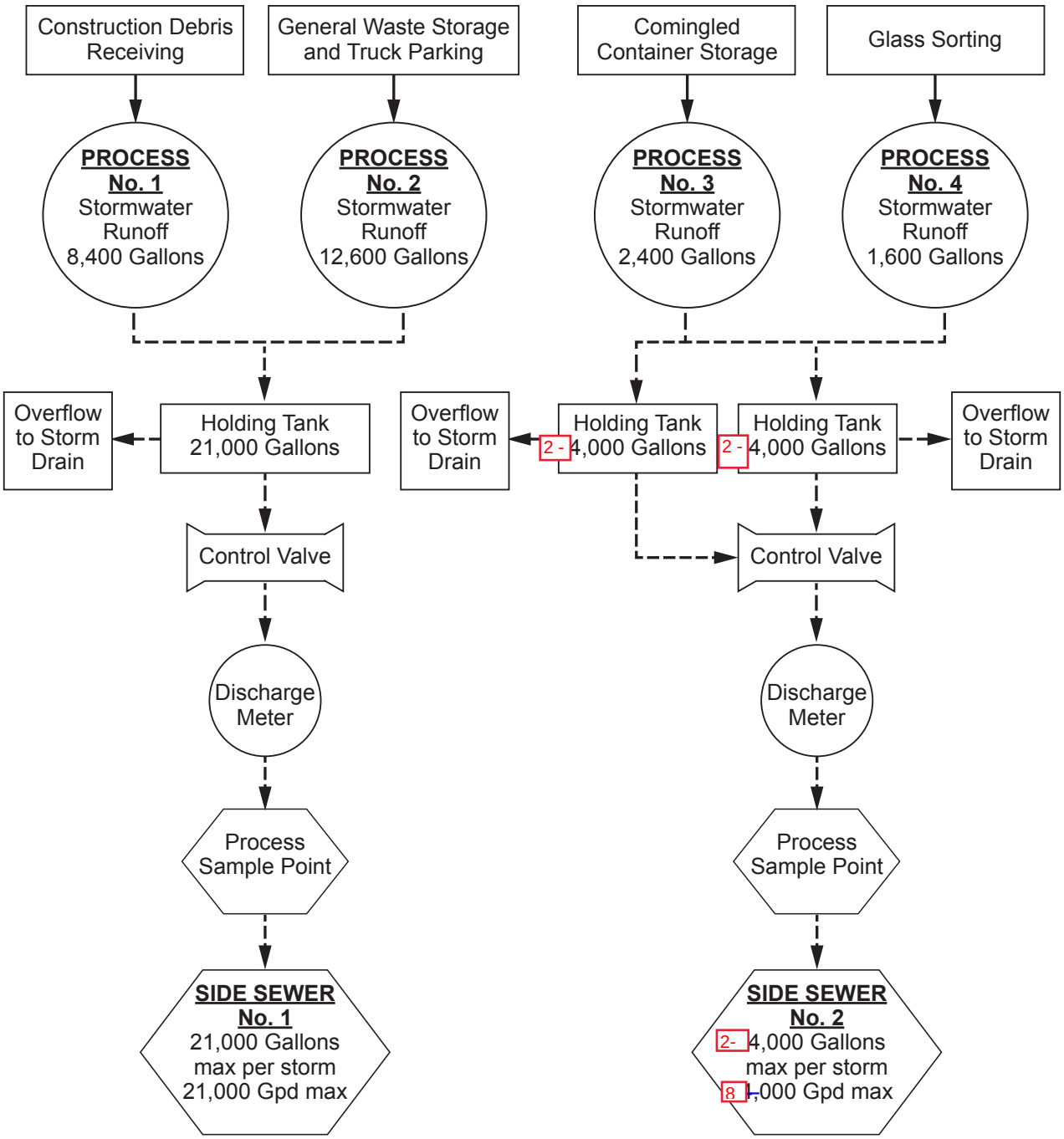
*** Discharge only occurs Monday through Friday after storm events**

SIDE SEWER LOCATION

No.
No.
No.
No.
No.

STORMWATER AREA

Total square-foot area exposed to stormwater that drains to the sanitary sewer: 4,500 sq. ft.



LEGEND

Product Flow

Wastewater Flow

SCHEMATIC FLOW DIAGRAM
Berkeley Transfer Station
1201 Second St. and 669 Gilman St.
Berkeley, California

wood.	By: DMO	Proj. No. 8618191370.4
	Date: 12/18/2018	Figure 1

S:\19100s\191370\phase_4\181217_cd_fig_01.ai

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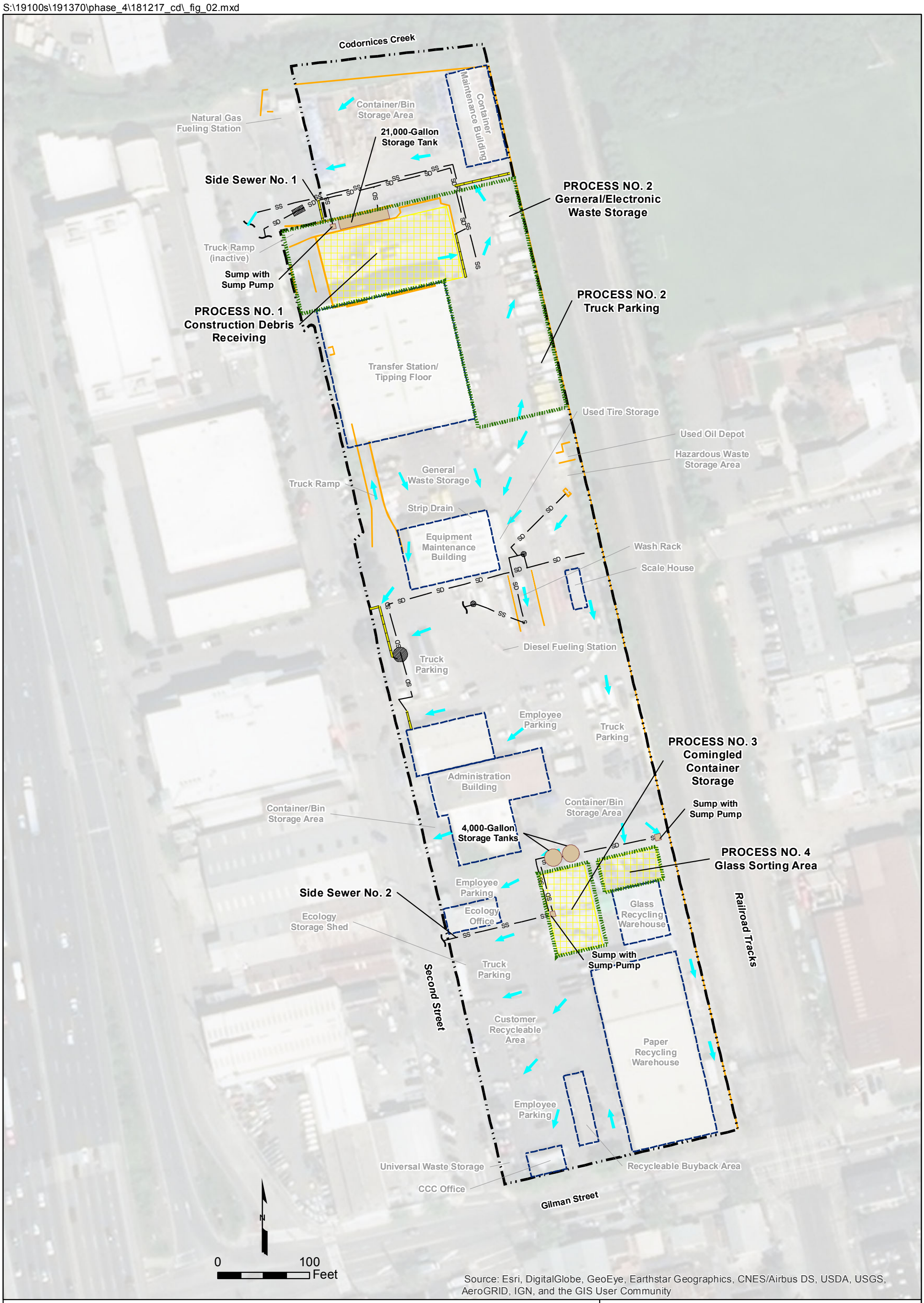


Explanation

- Flow Arrow
- Uncovered Activity Area
- Property Boundary
- Curb/Berm
- Storm Filter Vault
- SS — Sanitary Sewer
- SD — Storm Drain
- Trench Drain
- Building
- Area Discharges to Sanitary Sewer

FACILITY LAYOUT
Berkeley Transfer Station and Recycling Center
1201 Second St.and 669 Gilman St.
Berkeley, California

wood.

By: DMO
Date: 12/18/2018

Project No. 8618191370.4
Figure 2

EBMUD

SPECIAL DISCHARGE PERMIT
Terms and Conditions

PERMIT NUMBER: 51407600

GENERAL CONDITIONS

Berkeley Transfer Station shall comply with the provisions of the following two documents:

- EBMUD Wastewater Control Ordinance (Wastewater Control Ordinance)
- EBMUD Special Discharge Permit Standard Terms and Conditions, most recent edition

II. This Special Discharge Permit is a waiver of Wastewater Control Ordinance, Title I, Section 5, which prohibits the discharge of stormwater, drainage water, and groundwater to the community sewer.

III. Berkeley Transfer Station shall discharge Special Discharge Wastewater only from the site described in the Special Discharge Permit Applicant Form.

IV. Berkeley Transfer Station shall immediately cease discharge of treated or managed Special Discharge Wastewater if not in compliance with any of the terms and conditions of this Special Discharge Permit.

V. Berkeley Transfer Station shall not discharge Special Discharge Wastewater authorized by this Special Discharge Permit after the expiration date.

COMPLIANCE REQUIREMENTS

I. Berkeley Transfer Station shall pretreat/manage, including sediment control, all Special Discharge Wastewater prior to discharge to the community sewer. Pretreatment or management shall be sufficient to achieve compliance with the discharge limits established in this Special Discharge Permit.

II. Berkeley Transfer Station shall post a sign in the work area stating, "All Wastewater Discharge must comply with the Special Discharge Permit."

III. Berkeley Transfer Station shall not discharge Special Discharge Wastewater to the community sewer at a flow rate greater than 100 gallons per minute. The flow rate for discharges made directly to the EBMUD interceptor is under the discretion of the EBMUD Construction Inspector.

IV. Berkeley Transfer Station shall not discharge Special Discharge Wastewater to the community sewer during a rain event or within 24 hours after a rain event, which is defined as any precipitation greater than a drizzle.

V. Berkeley Transfer Station shall obtain permission from the applicable local agency to discharge Special Discharge Wastewater to the community sewer. Note that local sewer authorities may have different or more restrictive discharge requirements than EBMUD.

VI. Berkeley Transfer Station shall discharge all Special Discharge Wastewater to the community sewer through a totalizing flow meter.

VII. Berkeley Transfer Station shall maintain a discharge logbook. Each entry shall include the date, time, source, and total volume of all Special Discharge Wastewater discharged to the community sewer.

REPORTING REQUIREMENTS

I. Berkeley Transfer Station shall submit quarterly discharge log reports, including:

- A copy of discharge logs which include dates, times, volumes, flow totalizer readings, and the total volume of Special Discharge Wastewater discharged to the sanitary sewer to date.
- The authorized signature and certification statement.

II. The discharge log report is due according to the following schedule:

Discharge Period	Discharge Log Due
July 1 – December 31, 2021, 2022, 2023, 2024, 2025	January 31, 2022, 2023, 2024, 2025
January 1 – June 30, 2022, 2023, 2024, 2025, 2026	July 31, 2022, 2023, 2024, 2025, 2026

III. Submit all reports to EBMUD by email to adam.kern@ebmud.com.

SELF-MONITORING REQUIREMENTS

I. This permit requires Berkeley Transfer Station to submit analytical data to EBMUD due by January 31, 2022 for samples at side sewer no. 1 (transfer station), and side sewer no. 2 recycling center. The parameters to be monitored, sample type, and analytical test methods shall be in accordance with the following table:

Parameter	Sample Type	Method
Metals *(arsenic, cadmium, chromium, copper, iron, lead, nickel, silver, zinc)*	Grab	EPA 200.8 or 200.7
Oil & Grease (HC)	Grab	EPA 1664 HEM-SGT
Total Suspended Solids	Grab	SM2540D
Chemical Oxygen Demand	Grab	EPA 410.4

EBMUD may prohibit the discharge of the Special Discharge Wastewater and require additional treatment if any constituents exceed Wastewater Discharge Limits set forth by the permit. Subsequent testing may be required depending on the initial test results.

II. The self-monitoring report shall be submitted by email to adam.kern@ebmud.com. The self-monitoring report shall include:

- A signed analytical report
- The chain of custody documentation
- The authorized signature and certification statement

WASTEWATER DISCHARGE LIMITS

I. Berkeley Transfer Station shall not discharge Special Discharge Wastewater to the community sewer if the strength of the wastewater exceeds Wastewater Control Ordinance Discharge Limits.

INSPECTIONS

The District may conduct random, unannounced inspections to verify compliance with the terms and conditions of this Special Discharge Permit. Berkeley Transfer Station shall grant District personnel site access to conduct inspections and collect Special Discharge Wastewater samples.

ENFORCEMENT AND PENALTIES

Failure to comply with the terms and conditions of this Special Discharge Permit may result in enforcement actions, including violation follow-up fees, civil enforcement penalties, and administrative fines of up to $5,000 per day.

RATES AND CHARGES

This Special Discharge Permit may be amended to include changes to rates and charges that may be established by the District during the term of this Special Discharge Permit.

AUTHORIZATION

Berkeley Transfer Station is hereby authorized to discharge Special Discharge Wastewater to the community sewer, subject to compliance with *EBMUD Wastewater Control Ordinance, Special Discharge Permit Standard Terms and Conditions*, and established billing conditions.

Expiration: October 25, 2026

_____ _____

Director, Wastewater Department — Effective Date

WASTEWATER DISCHARGE PERMIT
Terms and Conditions
APPLICANT INFORMATION

APPLICANT BUSINESS NAME			PERMIT NUMBER
Berekely Transfer Station			51407600
ADDRESS OF SITE DISCHARGING WASTEWATER			
1201 Second Street and 669 Gilman Street	Berkeley		94710
STREET ADDRESS	CITY		ZIP CODE

PERSON TO BE CONTACTED REGARDING THIS APPLICATION

NAME	EMAIL ADDRESS	PHONE NUMBER	FAX NUMBER
Joy Brown	ejbrown@ci.berkeley.ca.us	(510) 981-6629	

PERSON(S) TO RECEIVE PERMIT AND CORRESPONDENCE IF DIFFERENT THAN PERSON SIGNING APPLICATION

NAME	MAILING ADDRESS
NAME	MAILING ADDRESS

PERSON TO BE CONTACTED IN THE EVENT OF AN EMERGENCY

NAME	DAYTIME TELEPHONE NUMBER	EVENING TELEPHONE NUMBER
Joy Brown	(510) 981-6629	(510) 774-5039

AUTHORIZATION

Joy Brown, Environmental Compliance Specialist — NAME & TITLE

is authorized to sign reports, documents, and other correspondence required by this Permit.

CERTIFICATION

I understand that I am legally responsible for discharge of wastewater from the facility and for complying with the Terms and Conditions of this Wastewater Discharge Permit.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME	TITLE
Joy Brown	Environmental Compliance Specialist
E. Joy Brown (Digitally signed by E. Joy Brown DN: cn=E. Joy Brown, o=City of Berkeley, ou=Public Works, email=ejbrown@cityofberkeley.info, c=US Date: 2016.08.15 11:54:12 -07'00')	8/15/16
SIGNATURE	DATE

(TO BE SIGNED BY CHIEF EXECUTIVE OFFICER OR DULY AUTHORIZED REPRESENTATIVE. SEE CERTIFICATION REQUIREMENTS ON REVERSE)

MAILING ADDRESS	PHONE NUMBER
1326 Allston Way, Berkeley, CA 94702	(510) 981-6629

REV. 04/12

EBMUD

WASTEWATER DISCHARGE PERMIT
Terms and Conditions
PROCESS DESCRIPTION

APPLICANT BUSINESS NAME Berkeley Transfer Station

The information on this form provides a description of wastewater generating processes, characteristics of the wastewater, and waste management activities. Instructions are on the back of this form.

Permit Number: 51407600

BUSINESS ACTIVITY	Standard Industrial Classification	Business Classification Code
Solid waste transfer facility	5093, 4212	

PROCESSES

Process Description	Wastewater Characteristics	Schematic Process Number
solid construction debris	TSS, oil and grease, metals	1
general waste storage	TSS, oil and grease, COD, metals	2
commingled container storage	COD	3
glass sorting	COD	4

POLLUTION PREVENTION TECHNIQUES / BEST MANAGEMENT PRACTICES (BMPs)

Housekeeping (routine sweeping, spill cleanup), routine maintenance of equipment and vehicles, spill prevention (use of secondary containment and drip pans), covering materials with canopies, roofs, and tarps to prevent contact with potential pollutants, filter fabric, and absorbent booms.

For details in BMPs, see the attached Stormwater Pollution Prevention Plan for the Transfer Station.

PRETREATMENT

Pretreatment System	Design Capacity	Loading Rate	Size	Side Sewer Number
☐ filtration				
☐ grease trap/oil and water separator				
☐ granular activated carbon				
☐ sedimentation				
☐ pH adjustment				
☐ chlorination				
☐ chemical precipitation				
☐ other (describe)				
☒ none				

PROCESS GENERATED WASTE

Waste / Disposal Method	Annual Waste Generation Quantity	Annual Waste Generation Unit
None	--	--

EBMUD

WASTEWATER DISCHARGE PERMIT

APPLICANT BUSINESS NAME Berkeley Transfer Station

TERMS AND CONDITIONS

WATER BALANCE/STRENGTH SUMMARY

The information on this form describes the volume, source, and strength of wastewater discharged to the community sewer. Instructions are on the back of this form.

Permit Number 5140760D

WATER USE AND WASTEWATER DISCHARGE BALANCE

Units expressed in: [✓] gallons per calendar day or [ ] gallons per working day (Number of working days per year____)

	Source			Wastewater Discharge to each Side Sewer					Water Diverted	Code
	EBMUD	Other	Code[1]	No.	No.	No.	No.	No.		
Sanitary										
Processes			B	21,000	~~4,000~~ 8,000		-	-	0 gallons	-
Product										
Boiler										
Cooling										
Washing										
Irrigation										
Sub-total		29,000		21,000	~~4,000~~ 8,000					
Total	All Sources	~~25,000~~		All Side Sewers	25,000		All Side Sewers + Water Diverted		29,000 ~~25,000~~	
Maximum Daily Discharge (gallons)				21,000	~~4,000~~ 8,000					

METERED WATER

Water Meter Number	Code[3]	Percent Discharge to each Side Sewer					Total % Discharge
None							

[1]Other / Code: Compute the average gallon per day water use from non-EBMUD sources and enter the value in the Other "Sub-total" box. Do not include sources that discharge only to the stormdrain. Allocate the subtotal value to each type of water use. Enter the code(s) that identifies the source water:

A= Well Water / Groundwater *B= Stormwater* *C= Reclaimed Water* *D= Other (describe)*

[2]Water Diverted/Code: Enter the diverted volume for each type of water use. Enter the code(s) that identifies the diversion:

A= Product *B= Evaporation* *C= Irrigation* *D= Creek/Bay* *E= Rail, Truck, Vessel* *F= Other (describe)*

[3]Metered Water Code(s): E= EBMUD Meter P= Private Meter

EBMUD

WASTEWATER DISCHARGE PERMIT

APPLICANT BUSINESS NAME Berkeley Transfer Station

TERMS AND CONDITIONS

#51407600

WATER BALANCE/STRENGTH SUMMARY

WASTEWATER STRENGTH ESTIMATES		Wastewater Discharge to each Side Sewer				
		No.	No.	No.	No.	No.
Total Suspended Solids mg/L (TSS)	Average					
	Maximum	See Table 1				
Chemical Oxygen Demand (mg/L)	Average					
	Maximum					

DISCHARGE FREQUENCY

Days of Week	Monday - Friday *				
Time of Day (Start & Stop Time)	8AM to 4PM				
Volume, if Batch Discharge	21,000 max	~~4,000~~ max	8,000		

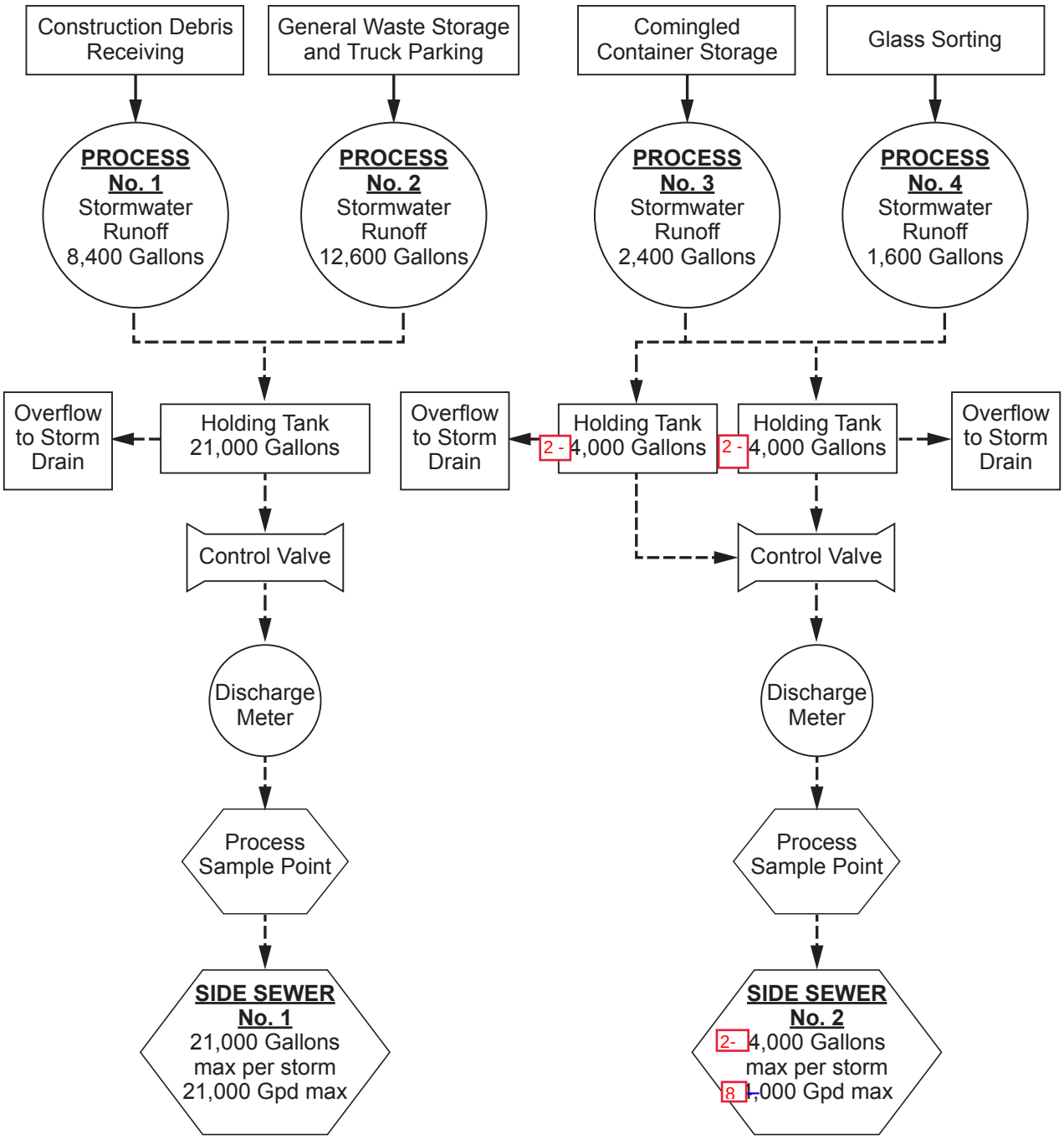
*** Discharge only occurs Monday through Friday after storm events**

SIDE SEWER LOCATION

No.
No.
No.
No.
No.

STORMWATER AREA

Total square-foot area exposed to stormwater that drains to the sanitary sewer: 4,500 sq. ft.



LEGEND

Product Flow

Wastewater Flow

SCHEMATIC FLOW DIAGRAM
Berkeley Transfer Station
1201 Second St. and 669 Gilman St.
Berkeley, California

wood.	By: DMO	Proj. No. 8618191370.4
	Date: 12/18/2018	Figure 1

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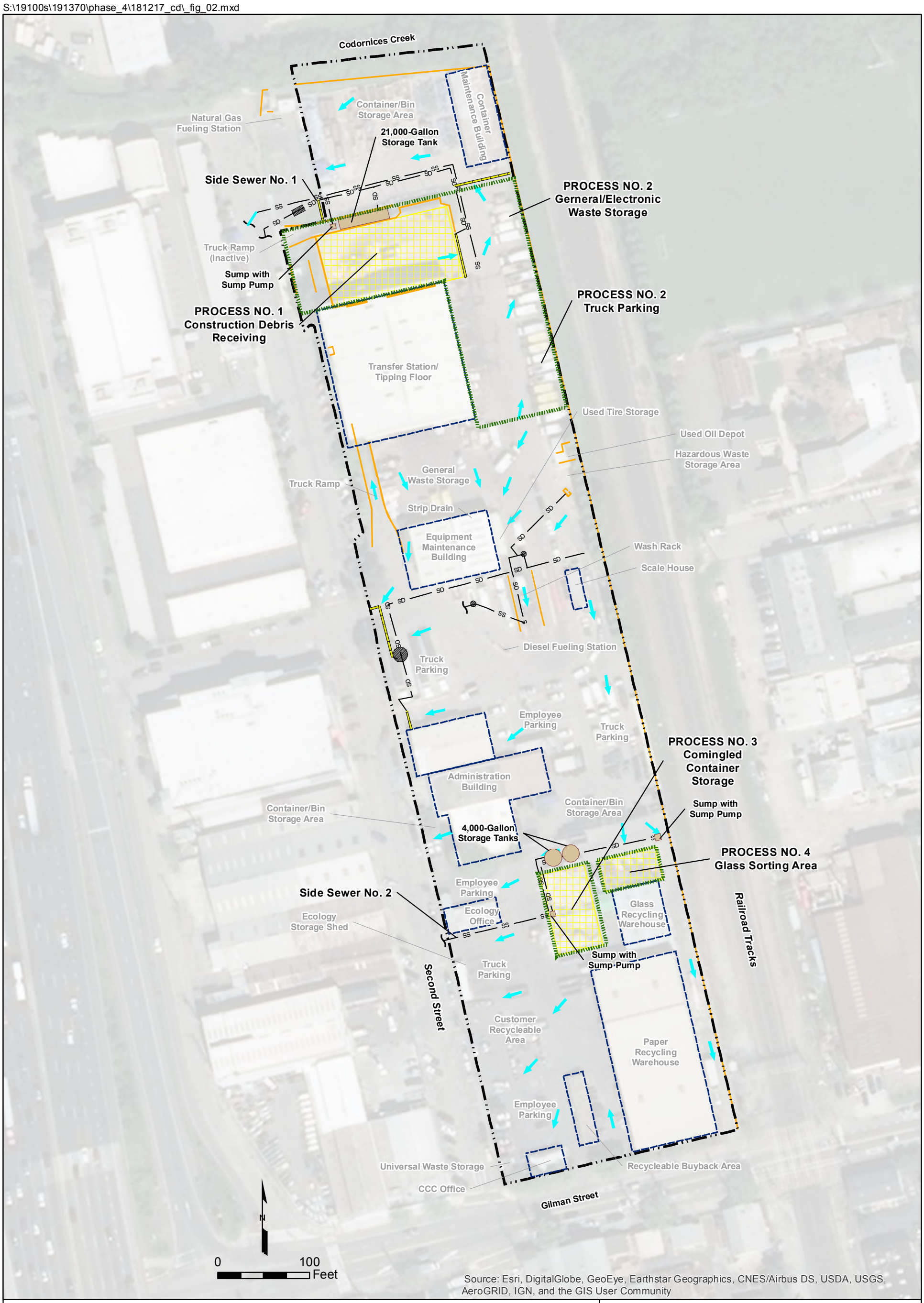
S:\19100s\191370\phase_4\181217_cd_fig_02.mxd



Explanation

- Flow Arrow
- Uncovered Activity Area
- Property Boundary
- Curb/Berm
- Storm Filter Vault
- SS — Sanitary Sewer
- SD — Storm Drain
- Trench Drain
- Building
- Area Discharges to Sanitary Sewer

FACILITY LAYOUT
Berkeley Transfer Station and Recycling Center
1201 Second St.and 669 Gilman St.
Berkeley, California

wood.

By: DMO
Date: 12/18/2018

Project No. 8618191370.4
Figure 2

APPENDIX D

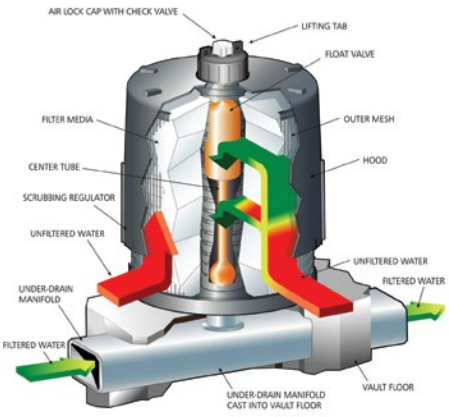
Contech Filter Descriptions and Specifications

Appendix D

Contech Filter Information and Specifications

The Contech® stormwater treatment vaults are located at DP-1A, DP-2A and DP-3A. The fourth vault is located downstream from the truck wash rack that pretreats wash water in the sanitary line to East Bay Municipal Utility District (EBMUD). DP-1A, DP-2A and the downstream wash rack filter are composed of ZPG™ filtering media. According to Contech® ZPG™ multipurpose media, a proprietary blend of organic and inorganic media is effective in the removal of solids, metals and organic chemicals. DP-3A is composed of Perlite filter media.
The vaults are composed of a series of circular filters. The mode of operation of the filters are described below.

- During a storm, runoff passes through the filtration media and starts filling the cartridge center tube. The air inside the hood is purged through a one-way check valve as the water rises.
- When water reaches the top of the float, buoyant forces pull the float free and allow filtered water to exit the cartridge. A siphon is established within each cartridge that draws water uniformly across the full height of the media bed ensuring even distribution of pollutants and prolonged media longevity.
- After the storm, the water level in the structure starts falling. A hanging water column remains under the cartridge hood until the water level reaches the scrubbing regulators at the bottom of the hood.
- Air then rushes through the regulators, breaking the siphon and creating air bubbles that agitate the surface of the filter media, causing accumulated sediment to settle on the treatment bay floor. This unique surface-cleaning mechanism prevents surface blinding and further extends cartridge life.

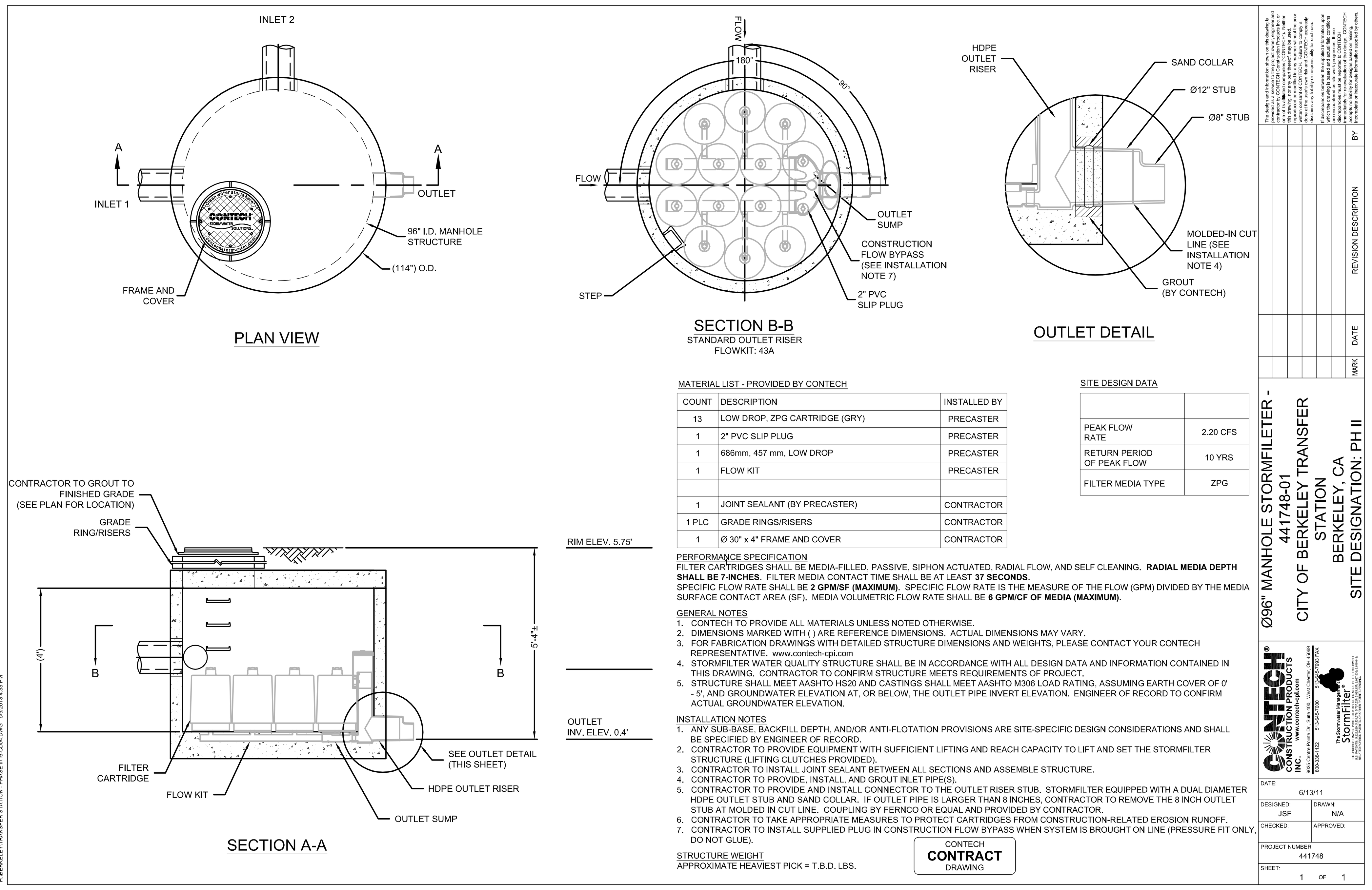


Appendix D

The website link below has a video explaining operation of the filter.
https://www.conteches.com/stormwater-management/treatment/stormwater-management-stormfilter

The Contech filter information for the BTS are presented in table below. Manufacturer informational engineering drawings are provided in attachment 4. A record of inspection and maintenance of the Contech filters is provided in attachment 5.

Discharge Location	Cartridge Size (inches)	Number of Cartridges	Media Type
DP-1A	18	13	ZPG
DP-2A	18	13	ZPG
DP-3A	12	3	Perlite
EBMUD Filter from Truck Wash Rack	18	4	ZPG

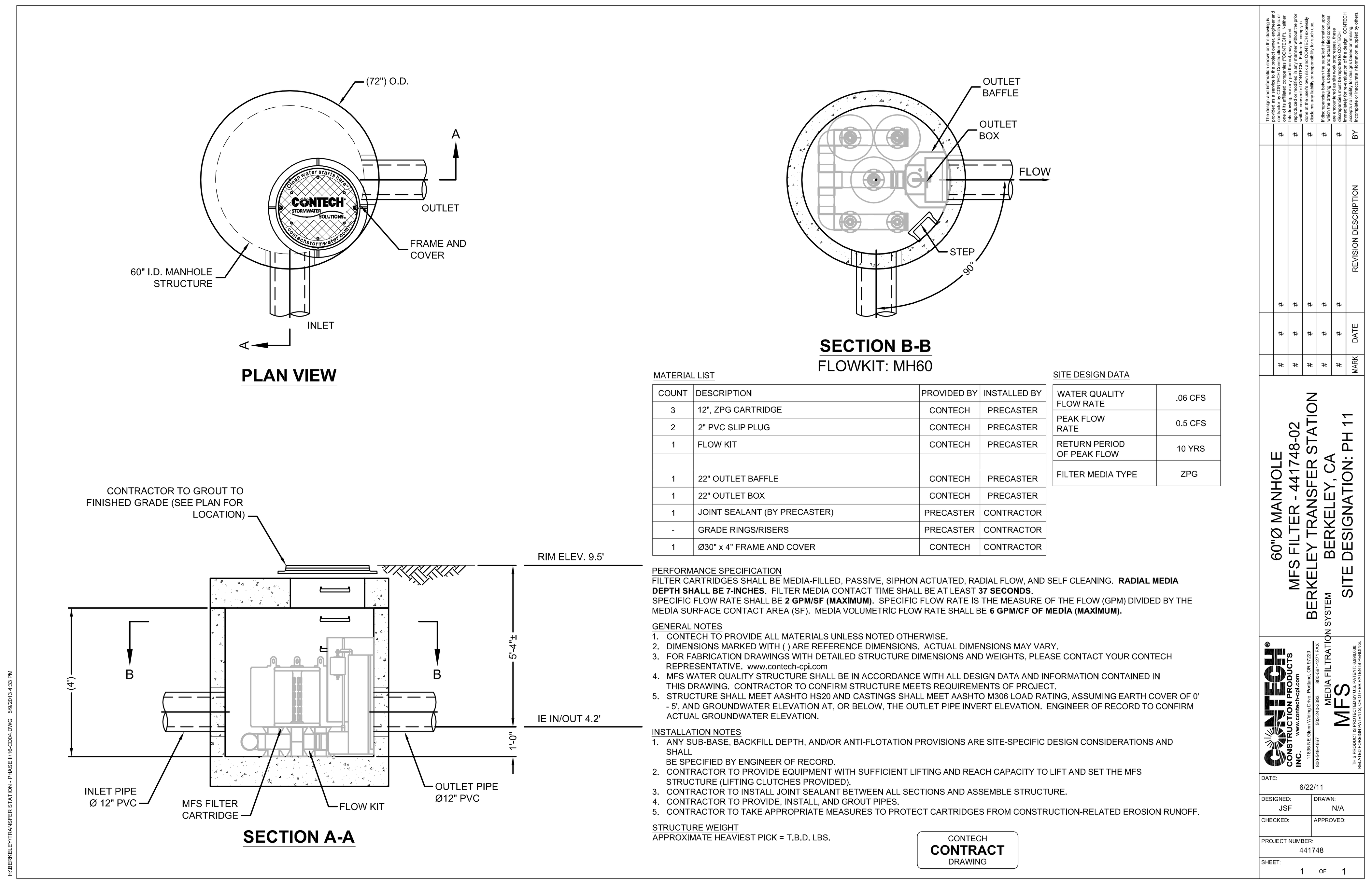


DP-2A

1 STORM FILTER AT MAIN GATE

SCALE: NOT TO SCALE

NOTE: THIS DRAWING IS FOR INFORMATIONAL PURPOSES ONLY

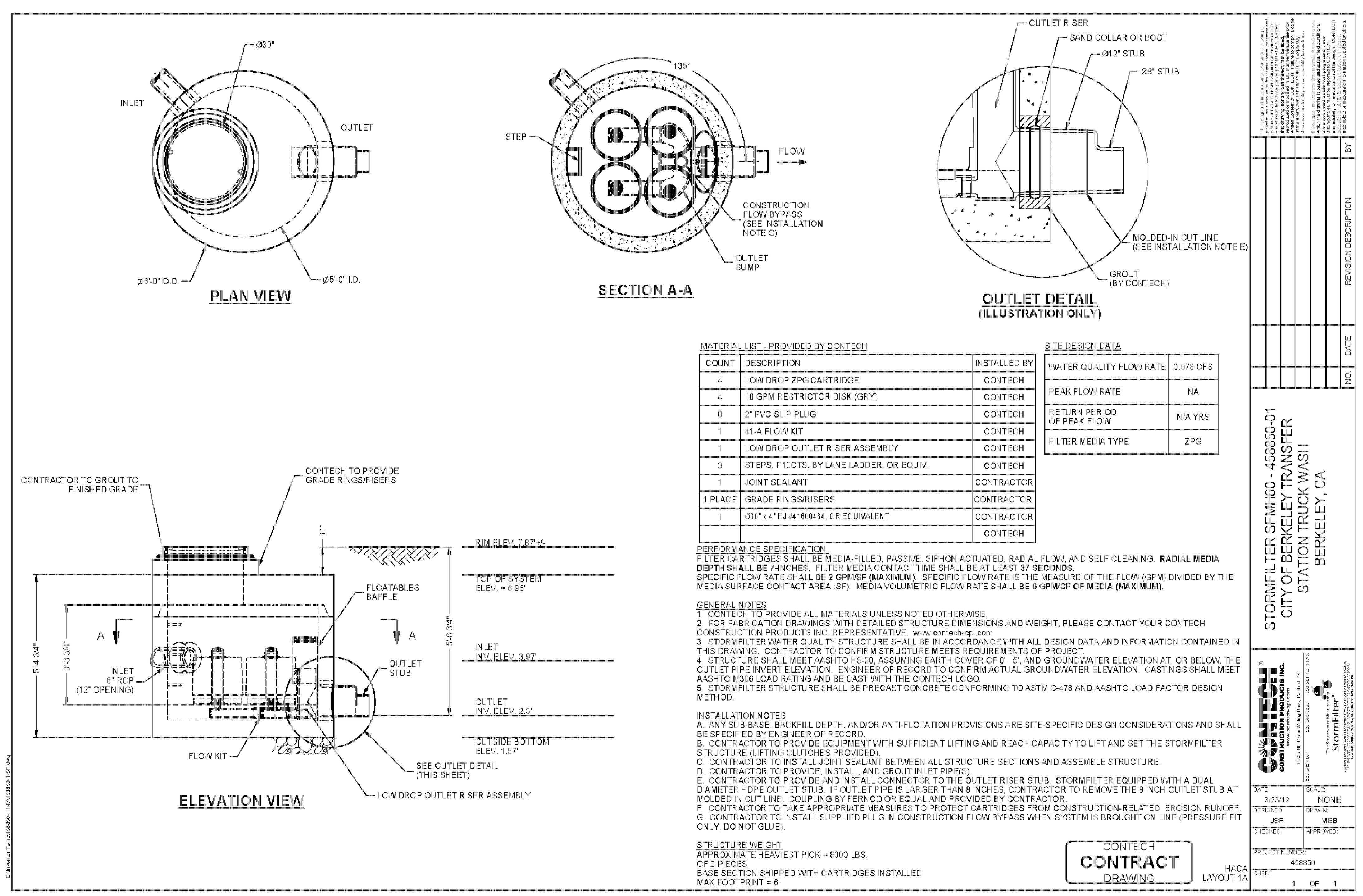


DP-3A

2 STORM FILTER AT WASH RACK

SCALE: NOT TO SCALE

NOTE: THIS DRAWING IS FOR INFORMATIONAL PURPOSES ONLY

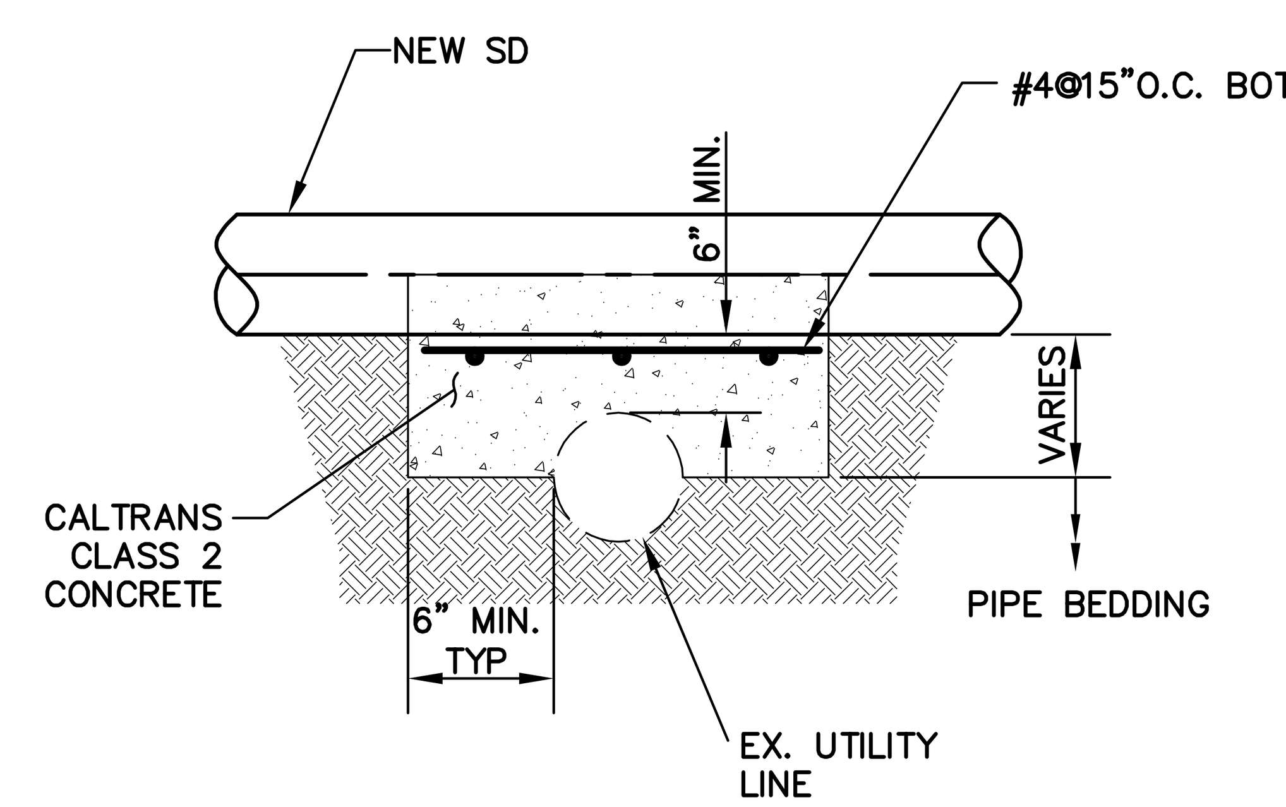


3 STORMFILTER IN FRONT OF VEHICLE MAINTENANCE BUILDING

SCALE: NOT TO SCALE

NOTE: THIS DRAWING IS FOR INFORMATIONAL PURPOSES ONLY

Filter downstream of wash rack manhole grate to EBMUD



NOTE:

1. INSTALL ½" STYROFOAM WHERE CONCRETE COMES IN CONTACT WITH PIPE.

4 CONCRETE SADDLE

SCALE: NOT TO SCALE

REGISTERED PROFESSIONAL ENGINEER
KOUROSH IRANPOUR
No. C 53336
Exp. 06-30-13
CIVIL
STATE OF CALIFORNIA

REVISION | NO. | DATE | BY

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Harris & Associates
1401 Willow Pass Road, Suite 500, Concord CA. 94520
harris-assoc.com (925) 827-4900

CITY OF BERKELEY
SECOND STREET TRANSFER STATION
STORMWATER MANAGEMENT IMPROVEMENTS - PHASE II

DRAWN BY MCL
DESIGNED BY KI
CHECKED BY VP

DATE ISSUED 05/01/13
JOB NO. 091-0684.02

CONSTRUCTION DETAILS

DWG. CD-4

SHEET 16 OF 16

H:\Berkeley\Transfer Station – Phase II\ 16–CD04 05/09/13 14:50 lgabriel XREFS: X–TB

APPENDIX E

Monthly Visual Observation and BMP Inspection Forms

MONTHLY VISUAL OBSERVATION LOG	
Date of Inspection:	**Inspection Time:**
Site Information	
Facility Name: Berkeley Transfer Station and Recycling Center	
Facility Address: 1201 Second Street and 669 Gilman Street Berkeley, California	
Inspector Information	
Inspector Name:	**Inspector Title:**
Signature:	**Date:**
Reviewer Name:	**Inspector Title:**
Signature:	**Date:**
Weather	
Antecedent Conditions:	**Current Weather:**
Part I. NSWD Observations	
Were any authorized non-stormwater discharges observed?	**No**
Were any **unauthorized** non-stormwater discharges observed?	**No**

Part II. BMP Observations.		
Industrial Activity Areas (Inspect all BMPs Implemented)	**Action Required (yes/no)**	**Notes:**
DP-1A – Catchment Area A		
Container/Bin Storage Area		
Container Maintenance Building		
Cargo Cab and Truck Parking		
Catch Basins CB-1 and Trench Drain TD-1		
Stormwater Inspection Area Summary:		**Per Industrial General Permit Section X. Stormwater Pollution Prevention Plan, H Best Management Practices (BMPs), 1. Minimum BMPs** **General Maintenance Recommendations:** • Cover open bins/containers • Use drip pins when possible; clean up oil spills and leaks immediately • Sweep area regularly • Maintain proper wattle placement • Clean sediment and debris • Ensure tires are kept under roof cover **Actions Required:**
Stormwater Collection Tank Discharge to EBMUD Sanitary Sewer - Catchment Area B		
General/Electronic Waste Storage		
Trench Drains TD-3 and TD-4		
Construction Debris Receiving Area		

Garbage Truck Parking		
Transfer Station/Tipping Floor		
Stormwater Holding Tank		
Stormwater Inspection Area Summary:		**<u>Per Industrial General Permit Section X. Stormwater Pollution Prevention Plan, H Best Management Practices (BMPs), 1. Minimum BMPs</u>** **General Maintenance Recommendations:** • Store general/electronic waste in sheltered or closed containers • Maintain dust control and sweeping measures • Clean sediment and debris
DP-2A – Catchment Area C		
Equipment Maintenance Building		
Truck Parking		
Diesel Fueling Station		
Catch Basins CB-2 and Trench Drain TD-2		
Stormwater Inspection Area Summary:		**<u>Per Industrial General Permit Section X. Stormwater Pollution Prevention Plan, H Best Management Practices (BMPs), 1. Minimum BMPs</u>** **General Maintenance Recommendations:** • Use drip pans when possible; clean up oil spills and leaks immediately • Sweep area regularly • Maintain proper wattle placement • Clean sediment and debris **Actions Required:**
DP-3A – Catchment Area C		

Transfer Station/Tipping Floor		
General Waste Storage		
Hazardous Waste Storage Area **To comply with:** **40 CFR Part 262 - Standards Applicable To Generators Of Hazardous Waste** **40 CFR § 262.11 - Hazardous waste determination and recordkeeping** **40 CFR § 262.15 - Satellite accumulation area regulations for small and large quantity generators**		
Used Oil Depot		
Used Tire Storage		
Truck Wash Rack		
Drum Storage Area Adjacent to Catch Basin CB-3		
Catch Basin CB-3 (large catch basin)		
Catch Basin CB-3A (small catch basin)		
Mattress Area		
Stormwater Inspection Area Summary:		**<u>Per Industrial General Permit Section X. Stormwater Pollution Prevention Plan, H Best Management Practices (BMPs), 1. Minimum BMPs</u>** **General Maintenance Recommendations:** • Maintain dust, sediment, and trash control measures • Keep drums closed and in proper storage • Maintain proper wattle placement **Actions Required:** •

DP-4 – Catchment Area D		
Truck Parking		
Container/Bin Storage Areas		
Discharge point DP-4		
Stormwater Inspection Area Summary:		**<u>Per Industrial General Permit Section X. Stormwater Pollution Prevention Plan, H Best Management Practices (BMPs), 1. Minimum BMPs</u>** **General Maintenance Recommendations:** • Clean leaks/spills immediately • Maintain sweeping and debris control **Actions Required:**
DP-5A – Catchment Area F		
Ecology center building		
Ecology Truck Parking and Maintenance Area		
Comingled Container Storage		
Stormwater Storage Tank		
Stormwater Sump/Pump to Storage Tank		
Glass Sorting Area		

Stormwater Inspection Area Summary:		**<u>Per Industrial General Permit Section X. Stormwater Pollution Prevention Plan, H Best Management Practices (BMPs), 1. Minimum BMPs</u>** **General Maintenance Recommendations:** • Maintain proper wattle and filter placement • Ensure regular sweeping and cleaning for spills, sediment, debris, and trash • Pickup trash **Actions Required:**
DP-6 – Catchment Area F		
Customer Recyclable Area		
Berm Behind Canopy Structure (recyclable buyback area)		
Universal Waste (Battery, fluorescent tube and fats, oil and grease, etc. recycling area)		
Cardboard collection Bins		
Stormwater Inspection Area Summary:		**<u>Per Industrial General Permit Section X. Stormwater Pollution Prevention Plan, H Best Management Practices (BMPs), 1. Minimum BMPs</u>** **General Maintenance Recommendations:** • Maintain proper wattle placement • Ensure regular sweeping and cleaning • Keep materials in proper containment and under canopies • Use drip pans **Actions Required:**
DP-7 – Catchment Area F		
Customer Parking		

DP-8A – Catchment Areas F		
Recyclable Buyback Area		
Storm Drain Catch Basin		
Stormwater Inspection Area Summary:		**<u>Per Industrial General Permit Section X. Stormwater Pollution Prevention Plan, H Best Management Practices (BMPs), 1. Minimum BMPs</u>** **General Maintenance Recommendations:** • Maintain proper wattle placement • Ensure regular sweeping and cleaning • Keep materials in proper containment and under canopies **Actions Required:**
DP-9 – Catchment Area E		
Paper Recycling Warehouse		
Glass Recycling Warehouse		
Wattle filters		
Alley way behind Warehouses		
Stormwater Inspection Area Summary:		**<u>Per Industrial General Permit Section X. Stormwater Pollution Prevention Plan, H Best Management Practices (BMPs), 1. Minimum BMPs</u>** **General Maintenance Recommendations:** • Maintain proper wattle placement and windscreens • Ensure regular sweeping and cleaning **Actions Required:**

Part III. Summary of Deficiencies and Actions Required		
Deficiency (list corresponding discharge location, include photo)	**Date Observed**	**Corrective Action Recommended**

Part IV. Additional or General Observations/Notes Requiring Corrective Action. Identify additional corrective actions not included with BMP Deficiencies (Part III) above. Identify BMPs that need more frequent inspection. Note if SWPPP change is required.		
Observation (include photo)	**Date Observed**	**Corrective Action Recommended**

APPENDIX F

Sampling Event Visual Observation Form

SAMPLING EVENTS VISUAL OBSERVATION LOG

Date and Time of Inspection:	Report Date:
Facility Name:	

Weather

Antecedent Conditions (last 48 hours):	Weather:
Precipitation Total:	Predicted % chance of rain:

Estimate storm beginning: _____ (date and time)	Estimate storm duration:_____ (hours)	Estimate time since last storm: _____ (days or hours)	Rain gauge reading: _____ (inches)

Sampling Event Observations

Observations: If yes identify location and observe drainage area to identify probable cause		
Odors	Yes □	No □
Floating material	Yes □	No □
Suspended Material	Yes □	No □
Sheen	Yes □	No □
Discolorations	Yes □	No □
Turbidity	Yes □	No □

NSWD Observations

Were any authorized non-stormwater discharges observed?	Yes □	No □
Were any **unauthorized** non-stormwater discharges observed?	Yes □	No □
If yes to either, identify source		

Drainage Area Observations

Drainage Area	Deficiencies Noted

Exception Documentation (explanation required if inspection could not be conducted).

Inspector Information

Inspector Name:	Inspector Title:
Signature:	Date:

APPENDIX G

Example Chain of Custody and Field Log Form

CHAIN-OF-CUSTODY **DATE:** **Lab ID:**

DESTINATION LAB: ATTN: **ADDRESS:** **Office Phone:** **Cell Phone:**							REQUESTED ANALYSIS				Notes:
SAMPLED BY:											
Contact:											
Facility Name											
Client Sample ID	**Sample Date**	**Sample Time**	**Sample Matrix**	**Container #**	**Container Type**	**Container Pres.**					

SENDER COMMENTS:	**RELINQUISHED BY**	
	Signature:	
	Print:	
	Company:	
	Date:	TIME:
LABORATORY COMMENTS:	**RECEIVED BY**	
	Signature:	
	Print:	
	Company:	
	Date:	TIME:

EXHIBIT A

Industrial Activities Storm Water General Permit

EXHIBIT B

Completed Training Logs/Training Materials

EXHIBIT C

Completed Monthly Observations and BMP Inspection Forms

EXHIBIT D

Completed Sampling Event Observations

EXHIBIT E

Weather Tracking

Current weather records are over 4,000 pages thus not included in this SWPPP.

Weather Conditions For:

EW1227 Berkeley, CA. E1227 (APRSWXNET/CWOP)

Elev: 49 ft.; Lat/Lon: 37.85183/-122.28783

https://www.wrh.noaa.gov/mesowest/timeseries.php?sid=E1227&num=72

EXHIBIT F

Laboratory Analytical Reports

EXHIBIT G

Exceedance Response Action (ERA) Documents

Exceedance Report Action Level 1 and 2 Summary		
Report	**Company**	**Date**
ERA Level 1 Report	Amec Foster Wheeler	December 2016
Combined Level 2 ERA and Level 1 ERA	Amec Foster Wheeler	December 2017
Exceedance Report Action Level 2 Technical Report	Wood	December 2018
Exceedance Report Action Level 2 Technical Report	Wood	May 2022