



**California Environmental Protection Agency
Department of Toxic Substances Control**

**HAZARDOUS WASTE FACILITY PERMIT
- DRAFT -**

Facility Name:

US Ecology Vernon, Inc.
5375 S. Boyle Avenue
Vernon, California 90058

EPA ID No.: CAD097030993

Effective Date: month day, year

Owner Name:

US Ecology Vernon, Inc.
5375 S. Boyle Avenue
Vernon, California 90058

Expiration Date: month day, year

Operator Name:

US Ecology Vernon, Inc.
5375 S. Boyle Avenue
Vernon, California 90058

Pursuant to California Health and Safety Code section 25200, this Resource Conservation and Recovery Act (RCRA)-equivalent Hazardous Waste Facility Permit is hereby issued to: US Ecology Vernon, Inc., for its Vernon Facility.

The Issuance of this Permit is subject to the terms and conditions set forth in Attachment A and the Part "B" Application (Operation Plan) dated September 2014 with revisions in 2016 and 2017. The Attachment A consists of 117 pages including Tables, Figures, and Appendices.

Phil Blum, P.E.
Supervising Hazardous Substances Engineer I
Permitting Division
Department of Toxic Substances Control

Date: _____

**US ECOLOGY VERNON, INC.
5375 S. BOYLE AVENUE
VERNON, CALIFORNIA 90058
EPA ID NUMBER: CAD097030993**

**HAZARDOUS WASTE FACILITY PERMIT
ATTACHMENT "A"**

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PART I. DEFINITIONS

All terms used in this Permit shall have the same meaning as those terms have in the California Health and Safety Code, division 20, chapter 6.5 and California Code of Regulations, title 22, division 4.5, unless expressly provided otherwise by this Permit.

1. **"DTSC"** as used in this Permit means the California Department of Toxic Substances Control.
2. **"Facility"** as used in this Permit means all contiguous land and structures, other appurtenances, and improvements on the land used for the treatment, transfer, storage resource recovery, disposal, or recycling of hazardous waste. A hazardous waste facility may consist of one or more treatment, transfer, storage, resource recovery, disposal or recycling operational units or combinations of these units.

For the purpose of implementing corrective action under California Code of Regulations, title 22, division 4.5, a hazardous waste facility includes all contiguous property under the control of the owner or operator required to implement corrective action.

3. **"Permittee"** as used in this Permit means the Facility Operator, the Facility Owner and the Owner of Real Property.
4. **"RCRA"** as used in this Permit means the Resource Conservation and Recovery Act (42 U.S.C. §6901 et seq.).

PART II. DESCRIPTION OF THE FACILITY AND OWNERSHIP

1. **OWNER of FACILITY:**

US Ecology Vernon, Inc.
5375 South Boyle Avenue
Vernon, California 90058

2. **OWNER of REAL PROPERTY:**

AMB Vernon Industrial Park, LLC
17777 Center Court Drive N., Suite 100
Cerritos, California 90703

3. **OPERATOR of FACILITY:**

US Ecology Vernon, Inc.
5375 South Boyle Avenue
Vernon, California 90058

4. **FACILITY LOCATION:**

The Facility is located at 5375 South Boyle Avenue within the boundaries of the City of Vernon, Los Angeles County, California. The Facility's geographic coordinates are (Latitude) 33° 59' 40" N and (Longitude) 118° 12' 45" W (See Figure 1, Location Map).

The Los Angeles County's Assessor's Parcel Number is 6310-009-020.

5. **DESCRIPTION of FACILITY OPERATIONS:**

At the Facility, the Permittee stores, treats, recycles, and transfers hazardous and non-hazardous waste generated from off-site industrial, commercial, institutional, and governmental sources. The Permittee accepts a variety of waste in the form of liquids, sludge, and solids.

The waste is treated by a series of chemical and/or physical processes to destroy or remove hazardous constituents or hazardous characteristics. The residues from this treatment are either recycled on-site, or shipped off-site to an appropriate facility. The treated wastewater is discharged under a separate permit to the Publicly Owned Treatment Works (POTW) industrial sewer system operated by the Los Angeles County Sanitation District.

6. FACILITY HISTORY:

The Facility began as a dedicated on-site wastewater treatment system built by Norris Industries, Inc. (Norris) and used to process wastewater from Norris's manufacturing processes.

The California Department of Health Services (DHS), the predecessor agency to DTSC, issued an Interim Status Document to Norris on December 30, 1981 authorizing Norris to store and treat hazardous waste generated on-site. A direct division of Norris, known as Norris Environmental Services (NES) operated the Facility.

In July 1989, the U.S. EPA and DHS approved a modification to the Interim Status Document authorizing Norris to treat both on-site and off-site generated hazardous waste. NES continued to operate the Facility as a direct division of Norris. In 1995-96, NES was incorporated as an independent subsidiary of Norris. DTSC issued a Hazardous Waste Facility Permit to NES on August 30, 1996. The Permit authorized NES to store, treat and transfer both on-site and off-site hazardous waste. Norris remained the owner of the real property, which Norris leased to NES to operate the Facility.

In October 1996, U.S. Filter Corporation purchased the Facility from NES and operated the Facility as US Filter Recovery Services (CA), Inc. (USFRS).

In March 1999, USFRS was purchased by Vivendi Environmental (Vivendi), including the Facility. Vivendi continued to operate the Facility as USFRS.

In 2003, Vivendi changed its name to Veolia. In 2004, Veolia sold the Facility to Siemens Corporation. Siemens Corporation temporarily operated the Facility as USFRS, but in 2006, the Permit was modified to reflect the change in the owner/operator of the Facility from USFRS to Siemens Water Technologies Corp. (SWTC), a wholly owned subsidiary of Siemens Corporation.

On or about April 6, 2010, property ownership of real property of the Facility was transferred from the parent company of Norris (TriMas Corporation) to a new owner, AMB Vernon Industrial Park LLC, a wholly owned subsidiary of AMB Property Corporation. SWTC continued to be the owner/operator of the Facility. On or about June 3, 2011, AMB Property Corporation was purchased by Prologis Inc. AMB Vernon Industrial Park remains the owner of the real property, as a wholly owned subsidiary of Prologis Inc.

On April 01, 2011, SWTC merged into Siemens Water Technologies Holding Corp., which in turn merged into Siemens Industry, Inc. (SII). Ownership/operation of the Facility under the Permit was transferred to SII. On July 1, 2013, the Facility as well as other specific SII assets and operations were merged into Siemens Water Technologies LLC (SWT), a wholly owned

subsidiary of SII. On July 2, 2014, DTSC modified the permit to recognize the name change of the Facility owner/operator from SWT to Evoqua Water Technologies LLC. On October 28, 2016, DTSC modified the permit to reflect the change of owner/operator of the Facility from Evoqua Water Technologies LLC to US Ecology Vernon, Inc.

7. FACILITY SIZE AND TYPE FOR FEE PURPOSES:

The Facility is categorized as a large treatment facility pursuant to Health and Safety Code section 25205.1 and for purposes of Health and Safety Code sections 25205.2 and 25205.19.

8. CLOSURE COST ESTIMATE:

The closure cost estimate as verified by DTSC on November 4, 2015 is \$5,971,857 in 2015 dollars. The closure cost estimate is adjusted annually for inflation and is \$6,031,576 in 2016 dollars.

PART III. GENERAL CONDITIONS

1. PERMIT APPLICATION DOCUMENTS:

The Part "A" Application dated May 23, 2014 and the Part "B" Application (Operation Plan) dated September 2014 with revisions in 2016 and 2017 (Approved Application), including all exhibits and attachments therein, are hereby made a part of this Permit by reference.

2. EFFECT OF PERMIT:

- (a) The Permittee shall comply with the terms and conditions of this Permit and the provisions of the Health and Safety Code and California Code of Regulations (Cal. Code Regs.), title 22, division 4.5. The issuance of this Permit by DTSC does not release the Permittee from any liability or duty imposed by federal or state statutes or regulations or local ordinances, except the obligation to obtain this Permit. The Permittee shall obtain the permits required by other governmental agencies, including but not limited to, those required by the applicable land use planning, zoning, hazardous waste, air quality, water quality, and solid waste management laws for the construction and/or operation of the Facility.
- (b) The Permittee is permitted to treat, store, and transfer hazardous wastes in accordance with the terms and conditions of this Permit. Any management of hazardous wastes not specifically authorized in this Permit is strictly prohibited.
- (c) Compliance with the terms and conditions of this Permit does not constitute a defense to any action brought under any other law governing protection of public health or the environment, including, but not limited to, one brought for any imminent and substantial endangerment to human health or the environment.
- (d) DTSC's issuance of this Permit does not prevent DTSC from adopting or amending regulations that impose additional or more stringent requirements than those in existence at the time this Permit is issued and does not prevent the enforcement of these requirements against the Permittee.
- (e) Failure to comply with any term or condition set forth in the Permit in the time or manner specified herein will subject the Permittee to possible enforcement action including, but not limited to penalties pursuant to Health and Safety Code section 25187.
- (f) Failure to submit any information required in connection with the Permit, or falsification and/or misrepresentation of any submitted information, is

grounds for revocation of this Permit (Cal. Code Regs., tit. 22, §66270.43).

- (g) In case of conflicts between the Operation Plan and the Permit, the Permit conditions take precedence.
- (h) This Permit includes and incorporates by reference any conditions of waste discharge requirements issued to the Permittee regarding operation of the Facility by the State Water Resources Control Board or any of the California Regional Water Quality Control Boards and any conditions imposed pursuant to section 13227 of the Water Code.
- (i) This Permit addresses requirements as administered and enforced by DTSC. Applicable regulations are found in the California Code of Regulations, title 22, sections 66260 through 66264, 66266, 66268, 66270 and 66271 as specified in this Permit.

3. CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) COMPLIANCE:

In accordance with the requirements of Public Resources Code section 21000 et seq. and the CEQA Guidelines sections 15162, 15163, and 15164, DTSC determined that the Environmental Impact Report it prepared as lead agency for issuance of Hazardous Waste Facility Permit to NES in 1996 provided an accurate description of project activities, and that the conditions requiring preparation of a subsequent environmental impact report are not present. To document its determination, DTSC prepared an Environmental Document Analysis. No additional documentation is required to be prepared for this project. DTSC will prepare a Notice of Determination for this final permit decision.

4. ANNUAL HAZARDOUS WASTE REDUCTION AND MINIMIZATION CERTIFICATION:

The Permittee shall certify annually that it has a hazardous waste reduction and minimization program and method in place and shall keep the annual certification as part of its Operating Record in accordance with Health and Safety Code section 25202.9 and California Code of Regulations, title 22, section 66264.73(b)(9)

5. ACCESS:

- (a) DTSC, its contractors, employees, agents, and/or any United States Environmental Protection Agency representatives are authorized to enter and freely move about the Facility for the purposes of interviewing Facility personnel and contractors; inspecting records, operating logs, and contracts relating to the Facility; reviewing progress of the Permittee in carrying out the terms of Part VI of the Permit; conducting such testing,

sampling, or monitoring as DTSC deems necessary; using a camera, sound recording, or other documentary-type equipment; verifying the reports and data submitted to DTSC by the Permittee; or confirming any other aspect of compliance with this Permit, Health and Safety Code, division 20, chapter 6.5, and California Code of Regulations, title 22, division 4.5. The Permittee shall provide DTSC and its representatives access at all reasonable times to the Facility and any other property to which access is required for implementation of any provision of this Permit, Health and Safety Code, division 20, chapter 6.5, and California Code of Regulations, title 22, division 4.5, and shall allow such persons to inspect and copy all records, files, photographs, documents, including all sampling and monitoring data, that pertain to work undertaken pursuant to the entire Permit or undertake any other activity necessary to determine compliance with applicable requirements.

- (b) Nothing in this Permit shall limit or otherwise affect DTSC's right to access and entry pursuant to any applicable State or federal laws and regulations.

PART IV. PERMITTED UNITS and ACTIVITIES

This Permit authorizes operation only of the Facility units and activities listed below. The Permittee shall not treat, store or otherwise manage hazardous waste in any unit other than those specified in this Part IV. Any modifications to a unit or activity authorized by this Permit require the written approval of DTSC in accordance with the permit modification procedures set forth in California Code of Regulations, title 22, division 4.5.

This Permit identifies thirty-five hazardous waste management units (HWMUs or Units) in Figure 2. As summarized in Figure 3, the Permit HWMUs correspond to the Facility hazardous waste management areas designated in the Operation Plan.

HAZARDOUS WASTE MANAGEMENT UNITS

HWMU No.	Hazardous Waste Management Unit Description	Facility Hazardous Waste Management Areas	Tank No.
1	Waste Receiving Station 1	Area I	NA
2	Organics pH Adjustment/Storage	Area III-B-2	54
3	Oil/Water Separation	Area III-B-3	43, 50
4	Organic Waste Polishing	Area III-B-4	46, 64, 65
5	Filter Press	Area III-E-3	Filter Press 8
6	Inorganic Waste Polishing	Area III-A3-1	47 A/B
7	Waste Receiving Station 2	Area I	NA
8	Waste Receiving Station 3/ Container Storage Area 3	Area I	NA
9	Container Storage Area 1	Area II	NA
10	Container Storage Area 2	Area II	NA
11	Container Storage Area 4	Area II	NA
12	Container Storage Area 5 East	Area II	NA
13	Container Storage Area 5 West	Area II	NA
14	Acid/Hexavalent Chromium Compatible Treatment/Storage	Area III-A1-1	3, 4

HWMU No.	Hazardous Waste Management Unit Description	Facility Hazardous Waste Management Areas	Tank No.
15	Chromate Reduction	Area III-A1-2	32 A/B
16	Inorganics/Corrosives Treatment/Storage	Area III-A2-1	19, 20, 21, 28
17	Inorganics/Corrosives Treatment/Storage	Area III-A2-2	22, 23, 24, 30
18	Main Treatment System	Area III-A2-3	33 A/B/C, 34 A/B/C, 35, 36, 37, 38, 11
19	Filter Press	Area III-A2-4	Filter Press 1, 2, 3, 4
20	Filter Press	Area III-A2-5	Filter Press 5, 6
21	Main Treatment System	Area III-A2-6	45
22	Inorganic Waste Polishing	Area III-A3-2	75 A/B, 76 A/B
23	Organics Treatment /Storage	Area III-B-1	56, 57, 58, 59, 60, 61, 62, 63
24	Multi-use Tanks	Area III-C-1	1, 2
25	Multi-use Tanks	Area III-C-2	5, 6
26	Multi-use Tanks	Area III-C-3	18
27	Multi-use Tanks	Area III-C-4	55
28	Cyanide Pre-Treatment /Storage	Area III-D	7, 8
29	Batch Treatment	Area III-E-1	31 A/B/C, 39, 40, 41, 42
30	Batch Treatment	Area III-E-2	66, 67
31	Portable Media Filtration /Absorption ¹	Area III-G	48 A/B, 49 A/B PMTs 1 - 6
32	Discharge Tanks 9, 10	Area IV-1	9, 10
33	Discharge Tanks 52, 53	Area IV-2	52, 53
34	Discharge Tanks 70, 71, 72, 73, 74	Area IV-3	70, 71, 72, 73, 74
35	Drum Crushing Unit	Area I	NA

Notes:

1 - Portable media filtration/adsorption treatment units frequently reside in the HWMU 1. Portable media filtration/adsorption treatment units may be moved to an authorized unit as long as adequate secondary containment is provided.

Unit 1:

Waste Receiving Station 1 (WRS1)

Location:

This Unit is located in the northern central area of the Facility (see Figures 2 and 4).

Activity Type:

Storage, treatment, and transfer in containers
Treatment in miscellaneous unit

Activity Description:

This Unit is used to receive bulk and containerized wastes that are transported to the Facility from off-site generators for storage, consolidation, treatment, recycling, and transfer, and to ship bulk and containerized wastes to off-site treatment, storage and disposal facilities (TSDFs).

Bulk waste is received and unloaded from tanker trucks and railcars that come from outside the permitted Facility. Bulk and containerized wastes are also loaded for shipment to appropriate off-site facilities.

Types of containers that may be used in this Unit include tanker trucks and containers of different sizes such as small quantity containers (1 – 5 gallons), bins, boxes, bags, drums (10 – 110 gallons), overpacks, totes (up to 330 gallons), roll-off bins, end-dump trailers, vacuum trucks, and intermodal containers.

Bulk and containerized wastes are held in Unit 1 while waste sampling and/or evaluation for acceptance are completed. Once accepted, the waste is either stored in Unit 1 or moved to other container storage areas (Units 8, 9, 10, 11, 12, 13), or consolidated into other containers or tanks located within Units 1, 2, 3, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 23, 24, 25, 26, 27, 28, 29, 30, and 31. Only compatible wastes are authorized to be consolidated. Containers are arranged in parallel rows with minimum aisle widths of 30 inches to allow for inspection and emergency equipment access.

Activities also include rinsing of empty containers as defined by California Code of Regulations, title 22, section 66261.7 and handling of universal waste in accordance with California Code of Regulations, title 22, section 66273.3.

In this Unit, the Permittee performs various chemical or additive pre-treatment activities in containers, tanks, bins, and tanker trucks to prepare the waste for further onsite treatment or offsite disposal. Such activities include foam control, pH adjustment, oxidation/reduction, emulsion breaking, metals precipitation, coagulation/flocculation,

stabilization, and/or solidification.

In this Unit, the Permittee also performs physical or mechanical pre-treatment activities in containers, tanks, bins, and tanker trucks to prepare the waste for further onsite treatment or offsite disposal. Such activities include waste screening, bagging, cartridge, sock and media filtration, decanting, blending, odor control, adsorption, ion exchange, sedimentation, phase separation, and/or dewatering.

Physical Description:

This Unit is an outdoor, uncovered, concrete-paved and epoxy-coated area. The approximate total surface area is 6,200 square feet and is served by the secondary containment system designated as Containment Area 8 (See Figures 2 and 4). Two sumps and a trench are located within Containment Area 8 to increase the secondary containment capacity. Containment Area 8 has a total secondary containment volume of 44,454 gallons.

Unit 1 includes a pumping station that consists of up to twelve individual pump assemblies with associated ancillary equipment. The pumping station transfers waste to other areas of the Facility.

Maximum Capacity:

The maximum permitted storage capacity of Unit 1 is **42,570 gallons**.

Waste Types:

Alkaline solution with metals, alkaline solution without metals, aqueous solution with organic residues, organic liquids with metals, oil-containing waste, liquids with pH less than 2, and Universal Waste. The Permittee is authorized to accept Universal Waste for consolidation and shipping to an off-site facility. See Tables 1, 2 and 3 for specific waste types.

Waste that has been received, but rejected by the Permittee, may also be temporarily stored in this Unit for 90 days.

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in Table 1.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in Table 2.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit, such as equipment used in bulk transfer, is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

1. The Permittee shall not stack containers more than two (2) containers high.
2. Small containers may be placed and stacked more than two containers high inside intermediate bulk containers (also known as totes), so long as they do not extend above the top of the container. Totes may be double-stacked.
3. The Permittee shall maintain a minimum of thirty (30) inches of aisle space between rows of containers.
4. The Permittee shall not store incompatible waste in this Unit unless a physical barrier is provided to prevent mixing of wastes.
5. The Permittee shall locate all containers in this Unit holding ignitable or reactive waste at least 15 meters (50 feet) from the Facility property line.
6. The Permittee shall not place any rejected load in this Unit which is incompatible with the permitted waste types, when the incompatible waste types are present, or unless a physical barrier is provided as described in condition 4 above.

Unit 2:

Organics pH Adjustment/Storage (Area III-B2)

Location:

This Unit is located near the west end of Unit 1. Unit 2 is located in the northern central area of the Facility (See Figures 2 and 4).

Activity Type:

Storage and treatment in a tank

Activity Description:

This Unit is used to store and pre-treat aqueous and/or organic waste by pH adjustment using sulfuric acid, sodium hydroxide, antifoam, or an equivalent reagent.

Tank 54 may receive waste from other units or transferred directly from containers, tanker trucks, or tanker rail cars. From Tank 54, the waste may be sent to other on-site units for further treatment, or transferred into containers located in Units 8, 9, 10, 12, and 13 for off-site disposal. Such containers include, but are not limited to tanker trucks, or tanker rail cars. See Appendix G of the Part B Permit Application for specific details.

Physical Description:

This Unit consists of a single aboveground, rectangular tank (Tank 54) measuring 4 feet (width) x 4 feet (length) by 4 feet (high). Tank 54 has an open roof and is made of carbon steel with a fiberglass reinforced plastic liner.

Containment Area 8 provides secondary containment for the Unit. The Unit shares the same secondary Containment Area 8 provided for Units 1, 3, 4, 5, 6, and 31(See Figures 2 and 4). Containment Area 8 has a total containment volume of 44,454 gallons.

Maximum Capacity:

The maximum storage capacity of this Unit is 400 gallons.

Maximum Treatment Capacity:

Tank 54 875 gallons per minute

Waste Types:

Aqueous and/or organic waste

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in [Table 4](#), Column 2.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in [Table 5](#), Column 2.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit such as equipment used in bulk transfer, is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

1. The Permittee shall not use Tank 54 with waste containing at or above 500 parts per million by weight (ppmw) volatile organic content.

Unit 3:

Oil/Water Separation (Subarea III-B-3)

Location:

This Unit is located near the west end of Unit 1 (See Figures 2 and 4). Unit 3 is located in the northern central area of the Facility.

Activity Type:

Storage and treatment in tanks

Activity Description:

This Unit (Tanks 43 and 50) is used to store organic waste (oil and oily aqueous waste) and/or oily sludge.

Organic waste (oil and oily aqueous waste) and/or oily sludge are first transferred into Tank 50. The organic waste in Tank 50 is treated by pH adjustment, emulsion breaking, and/or gravity separation. Reagents used in Tank 50 include sulfuric acid, sodium hydroxide, coagulant, flocculent, emulsion breaker, antifoam, or an equivalent reagent. Oil floats to the top of the aqueous waste and is separated from the aqueous portion.

The separated oil and oily waste from Tank 50 is sent to Tank 43 for storage. Tank 43 may also receive oil and oily waste from other units or transferred directly from containers, tanker trucks, or tanker rail cars. From Tank 43, the oil and oily waste may be sent to another on-site tank for further treatment, or transferred into containers

located in Units 8, 9, 10, 12, and 13 for off-site disposal. Such containers include, but are not limited to tanker trucks, or tanker rail cars.

The separated aqueous portion from Tank 50 is sent to Unit 23 or Unit 4 for additional treatment. The separated aqueous portion of Tank 50 may also be sent to other on-site units or transferred into containers located in Units 8, 9, 10, 12, and 13 for off-site disposal. Such containers include, but are not limited to tanker trucks, or tanker rail cars. See Appendix G of the Part B Permit Application for specific details.

Physical Description:

This Unit consists of two aboveground tanks (Tanks 43 and 50). Tank 43 is a closed roof, flat bottom, vertical cylinder steel tank with fiberglass reinforced plastic liner, and measuring 12 feet in diameter and 8 feet high. Tank 50 is a closed roof, rectangular steel tank with a tar epoxy liner, and measuring 5 feet 8 inches (width) x 14 feet (length) by 13 feet (high). This Unit shares the same secondary Containment Area 8 provided for Units 1, 2, 4, 5, 6, and 31 (See Figures 2 and 4).

Maximum Capacity:

The maximum permitted storage capacity of Tank 43 is 5,100 gallons and Tank 50 is 4,300 gallons.

Maximum Treatment Capacity:

Tank 50 250 gallons per minute

Waste Types:

Organic compounds, immiscible hydrocarbons, oils and/or inorganic compounds.

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in [Table 4](#), Column 2.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in [Table 5](#), Column 2.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

None

Unit 4:

Organic Waste Polishing (Area III-B-4)

Location:

This Unit is located near the south eastern end of Unit 1 (See Figures 2 and 4). Unit 4 is located in the northern central area of the Facility.

Activity Type:

Treatment in miscellaneous units

Activity Description:

This Unit consists of three treatment units, which are labeled in the Operation Plan as follows: Tanks 46, 64, and 65. These treatment units are activated carbon vessels used to treat liquid organic waste by removing the organic compounds. The treated waste from this Unit is sent to storage Tank 55 (Unit 27), other treatment tanks, or holding tanks for testing prior to discharge to the POTW.

The waste generated by this Unit includes sludge and spent media (e.g., granular activated carbon, resin, sand, gravel, garnet, clay, diatomaceous earth, or other media), and are consolidated with compatible waste and stored in an on-site storage unit until it is shipped to an authorized off-site disposal facility.

Physical Description:

This Unit consists of 3 vertical cylinder carbon steel tanks (Tanks 46, 64, and 65). Tank 46 measures 7 feet in diameter and 9 feet high. Tanks 64 and 65 have dimensions of 10 feet in diameter and 22 feet high. This Unit shares the same secondary Containment Area 8 provided for Units 1, 2, 3, 5, 6 and 31 (See Figures 2 and 4).

Maximum Treatment Capacity:

Tank 46	875 gallons per minute
Tank 64	875 gallons per minute
Tank 65	875 gallons per minute

Waste Types:

Organic compounds, immiscible hydrocarbons, oils and/or inorganic compounds.

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in [Table 4](#), Column 2.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in [Table 5](#), Column 2.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit, such as equipment used in bulk transfer, is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

None

Unit 5:

Filter Press 8 (Area III-E-3)

Location:

This Unit is located near the west end of Unit 1 (See Figures 2 and 4). Unit 5 is located in the northern central area of the Facility.

Activity Type:

Treatment in miscellaneous unit
Storage in containers

Activity Description:

This Unit consists of a filter press (FP 8). The Unit is used to treat sludge and solids from Tanks 31A, 31B, 31C, 39, 40, 41, 42, 66, 67, and various containers, by liquid and solids separation and sludge dewatering. The filter press is on an elevated platform, allowing the filter cake to drop directly into two pans. The solids from the filter press are consolidated and stored in Container Storage Area 3 (Unit 8). The liquids from the filter press are either returned to an on-site tank for additional treatment or sent to the discharge tanks for testing and subsequent discharge.

Physical Description:

This Unit is a filter press measuring 8 feet by 18 feet with two bins to collect the solids.

FP	Make	Model	Total Volume Ft³	Total Area Ft²	Vol/Chamber Ft³	Chambers	Plate Style
8	J-Press	800N32-39-20SYLW	20	413	0.5	39	Non-gasketed

This Unit shares the same secondary Containment Area 8 provided for Units 1, 2, 3, 4, 6 and 31 (See Figures 2 and 4).

Maximum Storage Capacity:

2 Pans 2 cubic yards (each)

Maximum Treatment Capacity:

Filter Press 8 220 gallon per minute

Waste Types:

Waste stream generated from other on-site treatment systems, Waste Receiving Stations, and/or Container Storage Areas.

RCRA Waste Codes:

This Unit can treat hazardous waste with RCRA Hazardous Waste Codes indicated in Table 4, Column 5.

State Waste Codes:

This Unit can treat hazardous waste with California Hazardous Waste Codes indicated in Table 5, Column 5.

Air Emission Standards:

Equipment used in this Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

1. The Permittee shall inspect the filter press at least once each operating day to detect corrosion or releases of waste. The Permittee shall document the inspection results in the operating record.
 2. Adequate secondary containment must be provided. The secondary containment for the filter press shall be inspected at least once each operating day to detect erosion or signs of releases of hazardous waste. The Permittee shall document the inspection results in the operating record.
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Unit 6:

Inorganic Waste Polishing (Area III-A3-1)

Location:

This Unit is located south of Unit 1. Unit 6 is located in the northern central area of the Facility (See Figures 2 and 4).

Activity Type:

Treatment in miscellaneous units

Activity Description:

This Unit consists of two treatment units, which are labeled in the Operation Plan as follows: Tanks 47A and 47B. The Unit is used to polish inorganic waste that requires additional contaminant removal prior to discharge. Treatment is conducted by activated carbon.

The waste generated by this Unit include sludge, and spent media (e.g., granular activated carbon, resin, sand, gravel, garnet, clay, diatomaceous earth, or other media), and are consolidated with compatible waste and stored in an on-site storage unit until it is shipped off-site for disposal.

Physical Description:

This Unit consists of two treatment units (Tanks 47A and 47B). The treatment units are aboveground, closed-roof, epoxy-lined, pressurized vertical cylinder carbon steel tanks, with dimensions of 8 feet in diameter by 11 feet high. Both treatment units are filled with activated carbon and have a capacity of 4,200 gallons each. This Unit shares the same secondary Containment Area 8 provided for Units 1, 2, 3, 4, 5 and 31 (See Figures 2 and 4).

Maximum Treatment Capacity:

Tank 47A	220 gallons per minute
Tank 47B	220 gallons per minute

Waste Types:

Inorganic waste from any other on-site Unit that requires additional polishing.

RCRA Waste Codes:

This Unit can treat hazardous waste with RCRA Hazardous Waste Codes indicated in Table 4, Column 1.

State Waste Codes:

This Unit can treat hazardous waste with California Hazardous Waste Codes indicated in Table 5, Column 1.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit, such as equipment used in bulk transfer, is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

None

Unit 7:

Waste Receiving Station 2 (WRS2)

Location:

This Unit is located near the northern central area of the Facility (See Figures 2 and 5).

Activity Type:

Storage, treatment, and transfer in containers
Treatment in miscellaneous unit

Activity Description:

This Unit is used to receive bulk and containerized wastes that are transported to the Facility from off-site generators. Bulk waste and containerized waste are also loaded onto transport vehicles for shipment to off-site TSDFs.

Types of containers that may be used in this Unit include tanker trucks and containers of different sizes such as small quantity containers (1 – 5 gallons), bins, boxes, bags, drums (10 – 110 gallons), overpacks, totes (up to 330 gallons), roll-off bins, end-dump trailers, vacuum trucks, tanker trucks, and intermodal containers.

Containers of hazardous waste are received, unloaded, consolidated, and/or stored in this Unit. Bulk waste is also received and unloaded in this Unit from tanker trucks and may be consolidated and/or stored in the tanker trucks. Once unloaded in this Unit, waste is sampled and evaluated for acceptance. If the waste meets the acceptance criteria, the waste is accepted. Once accepted, the waste is stored in this Unit, moved to other container storage units (Units 8, 9, 10, 11, 12, and 13), or consolidated into other containers or tanks located within Units 1, 2, 3, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 23, 24, 25, 26, 27, 28, 29, 30, and 31. Only compatible wastes are authorized to be consolidated. Containers are arranged in parallel rows with minimum aisle widths of 30 inches to allow for inspection and emergency equipment access.

In this Unit, the Permittee performs various chemical or additive pre-treatment activities in containers, tanks, bins, and tanker trucks to prepare the waste for further onsite treatment or offsite disposal. Such activities include foam control, pH adjustment, oxidation/reduction, emulsion breaking, metals precipitation, coagulation/flocculation, and/or solidification.

In this Unit, the Permittee also performs physical or mechanical pre-treatment activities in containers, tanks, bins, and tanker trucks to prepare the waste for further onsite

treatment or offsite disposal. Such activities include waste screening, bagging, cartridge, sock and media filtration, decanting, blending, odor control, adsorption, ion exchange, sedimentation, phase separation, and/or dewatering.

Containers may be rinsed or cleaned in this Unit.

Physical Description:

This Unit is an outdoor, uncovered and concrete-paved area. The approximate total surface area is 6,603 square feet and is served by the secondary containment designated as Containment Area 13 (See Figures 2 and 5). Containment Area 13 has a total containment volume of 37,269 gallons.

This Unit includes a pumping station that consists of up to five individual pump assemblies with associated ancillary equipment. The pumping station transfers waste to other areas of the Facility.

Maximum Capacity:

The maximum permitted storage capacity of this Unit is **115,830 gallons**

Waste Types:

Alkaline solution with metals, alkaline solution without metals, aqueous solution with organic residues, organic liquids with metals, oil-containing waste, liquids with pH less than 2, and Universal Waste. The Permittee is authorized to accept Universal Waste for consolidation and shipment to an off-site facility. See Tables 1, 2 and 3 for specific waste types.

Waste that has been received, but rejected by the Permittee, may also be stored in this unit for 90 days.

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in Table 1.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in Table 2.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for

Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit, such as equipment used in bulk transfer, is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

1. The Permittee shall not stack containers more than two (2) containers high.
2. Small containers may be placed and stacked more than two containers high inside intermediate bulk containers (also known as totes), as long as they do not extend above the top of the container. Totes may be double-stacked.
3. The Permittee shall maintain a minimum of thirty (30) inches of aisle space between rows of containers.
4. The Permittee shall not store incompatible waste in this Unit unless a physical barrier is provided to prevent mixing of wastes.
5. The Permittee shall locate all containers holding ignitable or reactive waste in this Unit at least 15 meters (50 feet) from the Facility property line.
6. The Permittee shall not place any rejected load in this Unit which is incompatible with the permitted waste types, when the incompatible waste types are present, or unless a physical barrier is provided as described in condition 4 above.

Unit 8:

Waste Receiving Station 3/Container Storage Area 3 (WRS3/CSA3)

Location:

This Unit is located along the southeast boundary of the Facility (See Figures 2 and 6).

Activity Type:

Storage, treatment, and transfer in containers
Treatment in miscellaneous unit

Activity Description:

This Unit is used to receive bulk and containerized wastes that are transported to the

Facility from off-site generators. Bulk waste and containerized waste are also loaded onto transport vehicles for shipment to off-site TSDFs.

Types of containers that may be used in this Unit include tanker trucks and containers of different sizes such as small quantity containers (1 – 5 gallons), bins, boxes, bags, drums 10 – 110 gallons), overpacks, totes (up to 330 gallons), roll-off bins, end-dump trailers, vacuum trucks, tanker trucks, intermodal containers and portable liquid waste containers/tanks.

Containers of hazardous waste are received, unloaded, consolidated, and/or stored in this Unit. Bulk waste is also received and unloaded in this Unit from tanker trucks and may be consolidated and/or stored in the tanker trucks. Once unloaded in this Unit, waste is sampled and evaluated for acceptance. If the waste meets the acceptance criteria, the waste is accepted. Once accepted, the waste is stored in this Unit, moved to other container storage units (Units 9, 10, 11, 12, and 13), or consolidated into other containers or tanks. Only compatible wastes are authorized to be consolidated. Containers are arranged in parallel rows with minimum aisle widths of 30 inches to allow for inspection and emergency equipment access.

Containers may also be rinsed, cleaned, conditioned and/or crushed in this Unit. The drums are crushed in Unit 35, which is located within this Unit.

In this Unit, the Permittee performs various chemical or additive pre-treatment activities in containers, tanks, bins, and tanker trucks to prepare the waste for further onsite treatment or offsite disposal. Such activities include foam control, pH adjustment, oxidation/reduction, emulsion breaking, metals precipitation, coagulation/flocculation, stabilization, and/or solidification.

In this Unit, the Permittee also performs physical or mechanical pre-treatment activities in containers, tanks, bins, and tanker trucks to prepare the waste for further onsite treatment or offsite disposal. Such activities include waste screening, bagging, cartridge, sock and media filtration, decanting, blending, odor control, adsorption, ion exchange, sedimentation, phase separation, and/or dewatering.

Physical Description:

This Unit consists of two areas: WRS3 and CSA3 (See Figure 6). CSA3 is one of five areas at the Facility that are used to store, consolidate, condition, treat, transfer, and manage containerized waste. CSA3 has an approximate total surface area of 12,716 square feet. WRS3 is one of three areas used to receive waste from off-site generators and ship waste to authorized TSDFs. WRS3 has an approximate total surface area of 5,000 square feet. This Unit is an outdoor, uncovered and concrete paved area. The approximate total surface area of this Unit is 17,716 square feet. Containment Area 11 provides secondary containment for the Unit (See Figures 2 and 6). Containment Area 11 has a total containment volume of 89,959 gallons.

This Unit includes a pumping station that consists of up to five individual pump assemblies with associated ancillary equipment. The pumping station transfers waste to other areas of the Facility.

Maximum Capacity:

The maximum permitted storage capacity of this Unit is **139,535 gallons**

Waste Types:

Alkaline solution with metals, alkaline solution without metals, aqueous solution with organic residues, organic liquids with metals, oil-containing waste, liquids with pH less than 2, and Universal Waste. The Permittee is authorized to accept Universal Waste for consolidation and subsequent shipment to an off-site facility. See Tables 1, 2 and 3 for specific waste types.

Waste that has been received, but rejected by the Permittee, may also be stored in this Unit for 90 days.

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in Table 1.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in Table 2.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit, such as equipment used in bulk transfer, is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

1. The Permittee shall not stack containers more than two (2) containers high.
2. Small containers may be placed and stacked more than two containers high inside intermediate bulk containers (also known as totes), as long as they do not extend above the top of the container. Totes may be double-stacked.

3. The Permittee shall maintain a minimum of thirty (30) inches of aisle space between rows of containers.
4. The Permittee shall not store incompatible waste in this Unit unless a physical barrier is provided to prevent mixing of wastes.
5. The Permittee shall locate all containers holding ignitable or reactive waste in this Unit at least 15 meters (50 feet) from the Facility property line.
6. The Permittee shall not place any rejected load in this Unit which is incompatible with the permitted waste types, when the incompatible waste types are present, or unless a physical barrier is provided as described in condition 4 above.
7. The Permittee shall not store more than 2537 drums (55-gallons) in this Unit.

Unit 9:

Container Storage Area 1 (CSA1)

Location:

This Unit is located near the northern central portion of the Facility (See Figures 2 and 7).

Activity Type:

Storage, treatment, and transfer in containers
Treatment in miscellaneous unit

Activity Description:

This Unit is used to store, consolidate, treat, and transfer containerized waste. After acceptance at Units 1, 7 or 8, wastes are brought to this Unit for storage, treatment, or transfer. Containers used in this Unit may include different sizes and shapes such as 1 – 5 gallon containers, bins, boxes, bags, drums (10 – 110 gallons), overpacks, and totes (up to 330 gallons). Bulk waste containers may also be used in this Unit as long as the maximum storage capacity is not exceeded.

Wastes in this Unit may be sent to other areas of the Facility, or to tanker trucks or rail cars located in Units 1, 7 and 8 for off-site shipment. Containers are arranged in parallel rows with minimum aisle widths of 30 inches to allow for inspection and emergency equipment access.

In this Unit, the Permittee performs various chemical or additive pre-treatment activities in containers to prepare the waste for further onsite treatment or offsite disposal. Such activities include foam control, pH adjustment, oxidation/reduction, emulsion breaking, metals precipitation, coagulation/flocculation, stabilization, and/or solidification.

In this Unit, the Permittee also performs physical or mechanical pre-treatment activities in containers to prepare the waste for further onsite treatment or offsite disposal. Such activities include bagging, consolidating, decanting, blending, sedimentation, phase separation, and/or dewatering.

Containers may also be rinsed or cleaned in this Unit.

Physical Description:

This Unit is an outdoor, uncovered and concrete-paved area. This Unit measures 25 feet by 66 feet and occupies an approximate total surface area is 1,650 square feet. The Unit is served by the secondary containment system designated as Containment Area 9, which has a total secondary containment volume of 37,464 gallons (See Figures 2 and 7).

This Unit contains one or more container pumping stations to allow for emptying and rinsing of containers and for the transfer of the container contents into the appropriate tank or to tanker trucks, railcars or other containers for off-site shipment. Pumping stations typically consist of up to 5 pump assemblies with associated ancillary equipment.

Maximum Capacity:

This maximum permitted storage capacity of this Unit is **31,680 gallons**.

Waste Types:

Alkaline solution with metals, alkaline solution without metals, aqueous solution with organic residues, organic liquids with metals, oil-containing waste, liquids with pH less than 2, and Universal Waste. The Permittee is authorized to accept Universal Waste for consolidation and shipment to an off-site facility. See Tables 1, 2 and 3 for specific waste types.

Waste that has been received, but rejected by the Permittee, may also be stored in this Unit for 90 days.

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in Table 1.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in Table 2.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit, such as equipment used in bulk transfer, is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

1. The Permittee shall not stack containers more than two (2) containers high.
 2. Small containers may be placed and stacked more than two containers high inside intermediate bulk containers (also known as totes), as long as they do not extend above the top of the container. Totes may be double-stacked.
 3. The Permittee shall maintain a minimum of thirty (30) inches of aisle space between rows of containers.
 4. The Permittee shall not store incompatible waste in this Unit unless a physical barrier is provided to prevent mixing of wastes.
 5. The Permittee shall locate all containers holding ignitable or reactive waste in this Unit at least 15 meters (50 feet) from the Facility property line.
 6. The Permittee shall not place any rejected load in this Unit which is incompatible with the permitted waste types, when the incompatible waste types are present, or unless a physical barrier is provided as described in condition 4 above.
 7. The Permittee shall not store more than 576 drums (55-gallons) in this Unit.
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Unit 10:

Container Storage Area 2 (CSA2)

Location:

This Unit is located near the eastern-central portion of the Facility (See Figures 2 and 8).

Activity Type:

Storage, treatment, and transfer in containers
Treatment in miscellaneous unit

Activity Description:

This Unit is used to store, consolidate, treat, and transfer containerized waste. After acceptance at Units 1, 7, or 8, wastes are brought to this Unit for storage, treatment, or transfer. Containers used in this Unit include 1 – 5 gallon containers, bins, boxes, bags, drums (10 – 110 gallons), overpacks, and totes (up to 330 gallons). Bulk containers may also be used in this Unit as long as the maximum storage capacity is not exceeded.

Wastes in this Unit may be sent to other areas of the Facility, or to tanker trucks or rail cars located in Units 1, 7 and 8 for off-site shipment. Containers are arranged in parallel rows with minimum aisle widths of 30 inches to allow for inspection and emergency equipment access.

In this Unit, the Permittee performs various chemical or additive pre-treatment activities in containers to prepare the waste for further onsite treatment or offsite disposal. Such activities include foam control, pH adjustment, oxidation/reduction, emulsion breaking, metals precipitation, coagulation/flocculation, stabilization, and/or solidification.

In this Unit, the Permittee also performs physical or mechanical pre-treatment activities in containers to prepare the waste for further onsite treatment or offsite disposal. Such activities include bagging, consolidating, decanting, blending, sedimentation, phase separation, and/or dewatering.

Containers may also be rinsed or cleaned in this Unit.

Physical Description:

This Unit is an outdoor, uncovered and concrete paved area. This Unit measures 55 feet by 63 feet and occupies an approximate total surface area of 3,465 square feet. The Unit is served by the secondary containment system designated as Containment Area 10, which has a total containment volume of 25,969 gallons (See Figures 2 and 8).

This Unit contains one or more container pumping stations to allow for emptying and rinsing of containers and for the transfer of the container contents into the appropriate tank or to tanker trucks, railcars or other containers for off-site shipment. Pumping stations typically consist of up to 5 pump assemblies with associated ancillary equipment.

Maximum Capacity:

The maximum permitted storage capacity of this Unit is **49,500 gallons**.

Waste Types:

Alkaline solution with metals, alkaline solution without metals, aqueous solution with organic residues, organic liquids with metals, oil-containing waste, liquids with pH less than 2, and Universal Waste. The Permittee is authorized to accept Universal Waste for consolidation and shipment to an off-site facility. See Tables 1, 2 and 3 for specific waste types.

Waste that has been received, but rejected by the Permittee, may also be stored in this Unit for 90 days.

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in Table 1.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in Table 2.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit, such as equipment used in bulk transfer, is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

1. The Permittee shall not stack containers more than two (2) containers high.
2. Small containers may be placed and stacked more than two containers high

inside intermediate bulk containers (also known as totes), as long as they do not extend above the top of the container. Totes may be double-stacked.

3. The Permittee shall maintain a minimum of thirty (30) inches of aisle space between rows of containers.
 4. The Permittee shall not store incompatible waste in this Unit unless a physical barrier is provided to prevent mixing of wastes.
 5. The Permittee shall locate all containers holding ignitable or reactive waste in this Unit at least 15 meters (50 feet) from the Facility property line.
 6. The Permittee shall not place any rejected load in this Unit which is incompatible with the permitted waste types, when incompatible waste types are present, or unless a physical barrier is provided as described in condition 4 above.
 7. The Permittee shall not store more than 900 drums (55-gallons) in this Unit.
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Unit 11:

Container Storage Area 4 (CSA4)

Location:

This Unit is located near the center of the Facility (See Figures 2 and 9).

Activity Type:

Storage in containers
Treatment in miscellaneous unit

Activity Description:

This Unit is used to store "special" wastes, which are wastes with characteristics that require direct introduction into the main treatment tanks or are such quality that they can be used as reagents in the main treatment tanks. Special wastes stored in this area are stored on secondary containment pallets. Containment Area 13A provides additional containment for this Unit. Incompatible special waste materials are kept on separate containment pallets in this Unit.

Containers may also be rinsed or cleaned in this Unit.

Physical Description:

This Unit is an uncovered, epoxy-coated concrete area. The approximate total surface area of this Unit is 132 square feet, which is the space occupied by six secondary containment pallets. This Unit's physical secondary containment is provided by six 360-gallon containment pallets. Each containment pallet can hold four 55-gallon drums or one 330-gallon tote. The total containment capacity is 2,160 gallons based on six 360-gallon containment pallets. Additional containment is provided by Containment Area 13A which provides an additional containment volume of 24,095 gallons (See Figures 2 and 9).

Maximum Capacity:

The maximum permitted storage capacity of this Unit is 1,980 gallons (based on one 330-gallon tote per containment pallet and a maximum of 6 containment pallets in this Unit).

Waste Types:

Alkaline solution with metals, alkaline solution without metals, aqueous solution with organic residues, organic liquids with metals, oil-containing waste, and liquids with pH less than 2. See Tables 1, 2 and 3 for specific waste types.

RCRA Waste Codes:

This Unit can store hazardous waste with RCRA Hazardous Waste Codes indicated in Table 1.

State Waste Codes:

This Unit can store hazardous waste with California Hazardous Waste Codes indicated in Table 2.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Unit Specific Special Conditions:

1. The Permittee shall not stack containers in this Unit.
2. The Permittee shall maintain a minimum of thirty (30) inches of aisle space between rows of containers.

3. The Permittee shall not store incompatible waste in this Unit unless a physical barrier is provided to prevent mixing of wastes.
 4. The Permittee shall locate all containers holding ignitable or reactive waste in this Unit at least 15 meters (50 feet) from the Facility property line.
 5. The Permittee shall not store more than 36 drums (55-gallons) in this Unit.
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Unit 12:

Container Storage Area 5 East (CSA5 East)

Location:

This Unit is located near the south-western portion of the Facility (See Figures 2 and 10).

Activity Type:

Storage and treatment in containers
Treatment in miscellaneous unit

Activity Description:

This Unit is used to store, consolidate, treat, and transfer containerized waste. After acceptance at Units 1, 7, or 8, wastes are brought to this Unit for storage, treatment, or transfer. Containers used in this Unit include 1 – 5 gallon containers, bins, boxes, bags, drums (10 – 110 gallons), overpacks, and totes (up to 330 gallons).

Wastes in this Unit may be sent to other areas of the Facility, or to tanker trucks or rail cars located in Units 1, 7 and 8 for off-site shipment. Containers are arranged in parallel rows with minimum aisle widths of 30 inches to allow for inspection and emergency equipment access.

In this Unit, the Permittee performs various chemical or additive pre-treatment activities in containers and tanks to prepare the waste for further onsite treatment or offsite disposal. Such activities include foam control, pH adjustment, oxidation/reduction, emulsion breaking, metals precipitation, coagulation/flocculation, stabilization, and/or solidification.

In this Unit, the Permittee also performs physical or mechanical pre-treatment activities in containers, tanks, and bins to prepare the waste for further onsite treatment or offsite disposal. Such activities include bagging, consolidation, decanting, blending,

adsorption, ion exchange, sedimentation, phase separation, and/or dewatering.

Containers may also be rinsed and cleaned in this Unit.

Physical Description:

This Unit is a concrete area covered by a roof. The Unit measures approximately 119 feet by 79 feet. Secondary containment is provided by a concrete pad covered by a roof. The approximate total surface area is 9,401 square feet. Secondary containment is provided by Containment Area 17 (See Figures 2 and 10). Containment Area 17 has a total containment volume of 32,767 gallons.

This Unit contains one or more container pumping stations to allow for emptying and rinsing of containers and for the transfer of the container contents into the appropriate tank or to tanker trucks, railcars or other containers located in Units 1, 7 and 8 for off-site shipment. Pumping stations typically consist of up to 5 pump assemblies with associated ancillary equipment.

Maximum Capacity:

The maximum permitted storage capacity of this Unit is **131,065 gallons**.

Waste Types:

Alkaline solution with metals, alkaline solution without metals, aqueous solution with organic residues, organic liquids with metals, oil-containing waste, and liquids with pH less than 2 and Universal Waste. The Permittee is authorized to accept Universal Waste for consolidation and shipment to an off-site facility. See Tables 1, 2 and 3 for specific waste types.

Waste that has been received, but rejected by the Facility, may also be stored in this unit for 90 days.

RCRA Waste Codes:

This Unit can store hazardous waste with RCRA Hazardous Waste Codes indicated in Table 1.

State Waste Codes:

This Unit can store hazardous waste with California Hazardous Waste Codes listed in Table 2.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of

Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit, such as equipment used in bulk transfer, is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

1. The Permittee shall not stack containers more than two (2) containers high.
2. Small containers may be placed and stacked more than two containers high inside intermediate bulk containers (also known as totes), as long as they do not extend above the top of the container. Totes may be double-stacked.
3. The Permittee shall maintain a minimum of thirty (30) inches of aisle space between rows of containers.
4. The Permittee shall not store incompatible waste in this Unit unless a physical barrier is provided to prevent mixing of wastes.
5. The Permittee shall locate all containers holding ignitable or reactive waste in this Unit at least 15 meters (50 feet) from the Facility property line.
6. The Permittee shall not place any rejected load in this Unit which is incompatible with the permitted waste types, when the incompatible waste types are present, or unless a physical barrier is provided as described in condition 4 above.
7. The Permittee shall not store more than 2383 drums (55-gallons) in this Unit.

Unit 13:

Container Storage Area 5 West (CSA5 West)

Location:

This Unit is located at the south-western corner of the Facility inside Building 12 (See Figures 2 and 11).

Activity Type:

Storage and treatment in containers
Treatment in miscellaneous unit

Activity Description:

This Unit is used to store, consolidate, treat, and transfer containerized waste. After acceptance at Units 1, 7, or 8, wastes are brought to this Unit for storage, treatment, or transfer. Containers used in this Unit include 1 – 5 gallon containers, bins, boxes, bags, drums (10 – 110 gallons), overpacks, and totes (up to 330 gallons).

Wastes in this Unit may be sent to other areas of the Facility, or to tanker trucks or rail cars located in Units 1, 7 and 8 for off-site shipment. Containers are arranged in parallel rows with minimum aisle widths of 30 inches to allow for inspection and emergency equipment access.

In this Unit, the Permittee performs various chemical or additive pre-treatment activities in containers and bins to prepare the waste for further onsite treatment or offsite disposal. Such activities include foam control, pH adjustment, oxidation/reduction, emulsion breaking, metals precipitation, coagulation/flocculation, stabilization, and/or solidification.

In this Unit, the Permittee also performs physical or mechanical pre-treatment activities in containers, tanks, and bins to prepare the waste for further onsite treatment or offsite disposal. Such activities include bagging, consolidating, decanting, blending, adsorption, ion exchange, sedimentation, phase separation, and/or dewatering.

Containers may also be rinsed and cleaned in this Unit.

Physical Description:

This Unit is a concrete area covered by a roof. The Unit is located on an 18-inch raised concrete pad and consists of two rectangular areas measuring approximately 36 by 77 feet and 43 by 59 feet. The approximate total surface area is 5,349 square feet. Secondary containment is provided by Containment Area 15 (See Figures 2 and 11), which has a total containment volume of 4,010 gallons.

This Unit contains one or more container pumping stations to allow for emptying and rinsing of containers and for the transfer of the container contents into the appropriate tank or to tanker trucks, railcars or other containers located in Units 1, 7 and 8 for off-site shipment. Pumping stations typically consist of up to 5 pump assemblies with associated ancillary equipment.

Maximum Capacity:

The maximum permitted storage capacity of this Unit is **34,430 gallons**

Waste Types:

Alkaline solution with metals, alkaline solution without metals, aqueous solution with organic residues, organic liquids with metals, oil-containing waste, liquids with pH less than 2, and Universal Waste. The Permittee is authorized to accept Universal Waste for consolidation and shipment to an off-site facility. See Tables 1, 2 and 3 for specific waste types.

Waste that has been received, but rejected by the Permittee, may also be stored in this unit for 90 days.

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in Table 1.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in Table 2.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit, such as equipment used in bulk transfer, is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

1. The Permittee shall not stack containers more than two (2) containers high.
2. Small containers may be placed and stacked more than two containers high inside intermediate bulk containers (also known as totes), as long as they do not extend above the top of the container. Totes may be double-stacked.
3. The Permittee shall maintain a minimum of thirty (30) inches of aisle space between rows of containers.
4. The Permittee shall not store incompatible waste in this Unit unless a physical barrier is provided to prevent mixing of wastes.
5. The Permittee shall locate all containers holding ignitable or reactive waste in this

Unit at least 15 meters (50 feet) from the Facility property line.

6. The Permittee shall not place any rejected load in this Unit which is incompatible with the permitted waste types, when the incompatible waste types are present, or unless a physical barrier is provided as described in condition 4 above.
7. The Permittee shall not store more than 626 drums (55-gallons) in this Unit.

Unit 14:

Acid/Hexavalent Chromium Compatible Treatment/Storage (Area III-A1-1)

Location:

This Unit is located near the central southern portion of the Facility (See Figures 2 and 12).

Activity Type:

Storage and treatment in tanks

Activity Description:

This Unit, consisting of Tanks 3 and 4, is used to receive, store, pre-treat, and/or transfer the hexavalent chromium and hexavalent chromium compatible waste. Reagents used for pre-treatment in Tanks 3 and 4 may include sulfuric acid, sodium hydroxide, sodium bisulfite, antifoam, or an equivalent reagent. The waste, after pre-treatment, is then transferred to Tanks 32A and/or 32B (located in Unit 15) for further treatment, to other on-site units for further processing or storage, or sent off-site for further processing. See Appendix G of the Part B Permit Application for specific details.

Physical Description:

Tanks 3 and 4 are aboveground storage tanks made of carbon steel with fiberglass reinforced plastic lining and a roof, which is vented to an emissions control system. Both tanks have external dimensions of 14 feet diameter by 18 feet height.

Secondary containment is provided by Containment Area 1, which has a total containment volume of 88,411 gallons (See Figures 2 and 12).

Maximum Storage Capacity:

Tank 3	18,500 gallons
Tank 4	18,500 gallons

Maximum Treatment Capacity:

Tank 3	300 gallons per minute
Tank 4	300 gallons per minute

Waste Types:

Hexavalent chromium or other hexavalent chromium compatible wastes, including acidic wastes.

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in [Table 4](#), Column 1.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in [Table 5](#), Column 1.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit, such as equipment used in bulk transfer, is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

None

Unit 15:

Chromate Reduction (Area III-A1-2)

Location:

This Unit is located near the central southern portion of the Facility (See Figures 2 and 12).

Activity Type:

Storage and treatment in tanks

Activity Description:

This Unit, consisting of Tanks 32A and 32B, is used for the treatment of waste containing hexavalent chromium. Although other types of treatment may be performed in Tanks 32A and 32B, the primary treatment performed is adjustment of the pH followed by reduction of any hexavalent chromium into its trivalent form by addition of a reducing agent such as sodium bisulfite or sodium metabisulfite. Other reagents used in Tanks 32A/B include sulfuric acid, sodium hydroxide, antifoam, or equivalent.

After treatment in Tanks 32A and 32B, inorganic waste is transferred to other on-site units for further processing or storage. See Appendix G of the Part B Permit Application for specific details.

Physical Description:

Tanks 32A and 32B are rectangular aboveground batch treatment tanks placed side-by-side. Both tanks are made of carbon steel with fiberglass plastic lining and a roof, which is vented to an emissions control system. The tanks exterior dimensions of 8 feet wide by 6 feet 11 inches long by 8 feet 6 inches high. Secondary containment is provided by Containment Area 3 which has total containment volume of 33,048 gallons (See Figures 2 and 12).

Maximum Capacity:

Tank 32A	3,400 gallons
Tank 32B	3,400 gallons

Maximum Treatment Capacity:

Tank 32A	190 gallons per minute
Tank 32B	190 gallons per minute

Waste Types:

Hexavalent chromium or other hexavalent chromium compatible wastes, including acidic wastes.

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in [Table 4](#), Column 1.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in [Table 5](#), Column 1.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit, such as equipment used in bulk transfer, is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

None

Unit 16:

Inorganics/Corrosives Treatment/Storage (Area III-A2-1)

Location:

This Unit is located near the central portion of the Facility (See Figures 2 and 12).

Activity Type:

Storage and treatment in tanks

Activity Description:

This Unit consists of four tanks: Tanks 19, 20, 21, and 28. The Unit is used to store and treat inorganic acidic or acidic-compatible waste in tanks. Acid compatible waste is pumped to these tanks for pre-treatment and reagents such as sulfuric acid, sodium hydroxide, sodium bisulfite, antifoam, or an equivalent reagent are added. After the waste is pre-treated, it is transferred via pipeline to Unit 18 (primary treatment Tanks 34A/B/C or secondary treatment Tanks 33A/B/C). The waste in Tanks 19, 20 and 21 may also be transferred to other on-site tanks or sent off-site for further processing. See Appendix G of the Part B Permit Application for specific details.

Tank 28 is used as an emergency standby/overflow tank for Tanks 19, 20, and 21. Waste from Tank 28 may be transferred back to Tanks 19, 20, and 21, transferred to containers, or transferred to other treatment and/or storage units on-site. Treatment and pre-treatment are not authorized in Tank 28.

Physical Description:

Tanks 19, 20, and 21 are aboveground treatment tanks made of fiberglass reinforced plastic with a roof, which is vented to an emissions control system. These tanks are 25 feet in diameter and 20 feet high.

Tank 28, an overflow tank, is an aboveground, closed-roof, unlined, vertical cylinder polyethylene tank. The roof is vented through two vents. The tank is 10 feet in diameter and 11 feet 10 inches high.

Secondary containment for Tanks 19, 20, 21, and 28 is provided by Containment Area 4 (See Figures 2 and 12). Containment Area 4 is a pentagonal concrete area lined with fiberglass. It has an approximate surface area of 3,364 square feet. Containment Area 4 has a total containment volume of 70,967 gallons.

Maximum Capacity:

Tank 19	66,100 gallons
Tank 20	66,100 gallons
Tank 21	66,100 gallons
Tank 28	5,800 gallons

Maximum Treatment Capacity:

Tank 19	300 gallons per minute
Tank 20	300 gallons per minute
Tank 21	300 gallons per minute

Waste Types:

Inorganic acidic or acidic-compatible waste

RCRA Waste Codes:

This Unit can store and treat hazardous waste with the RCRA Hazardous Waste Codes indicated in Table 4, Column 1.

State Waste Codes:

This Unit can store and treat hazardous waste with the California Hazardous Waste Codes indicated in Table 5, Column 1.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit, such as equipment used in bulk transfer, is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

1. The Permittee shall not treat wastes in Tank 28.

Unit 17:

Inorganics/Corrosives Treatment/Storage (Area III-A2-2)

Location:

This Unit is located near the central portion of the Facility (See Figures 2 and 12).

Activity Type:

Storage and treatment in tanks

Activity Description:

This Unit consists of four tanks: 22, 23, 24 and 30. Tanks 22, 23, and 24 are used to store and treat inorganic pH neutral and alkaline waste, or pH neutral and alkaline-compatible waste. Alkaline-compatible waste is pumped to these tanks for pre-treatment and reagents such as sulfuric acid, sodium hydroxide, sodium bisulfite, antifoam, or an equivalent reagent are added. After the waste is pre-treated, it is

transferred via pipeline to Unit 18 (primary treatment Tanks 34A/B/C or secondary treatment Tanks 33A/B/C). The waste in Tanks 22, 23, and 24 may also be transferred to other on-site tanks or sent off-site for further processing. See Appendix G of the Part B Permit Application for specific details.

Tank 30 is used as an emergency standby/overflow tank for Tanks 22, 23, and 24. Waste from Tank 30 may be transferred back to Tanks 22, 23, and 24 transferred to containers, or transferred to other treatment and/or storage units on-site. Treatment and pre-treatment is not performed in Tank 30.

Physical Description:

Tanks 22, 23, and 24 are aboveground open-top treatment tanks made of carbon steel. These tanks are 25 feet in diameter and 20 feet high.

Tank 30, an overflow tank, is an aboveground, closed-roof, unlined, vertical cylinder polyethylene tank. The roof is vented through two vents. The tank is 10 feet in diameter and 11 feet 10 inches high.

Secondary containment for the Unit is provided by Containment Area 5 (See Figures 2 and 12). Containment Area 5 is a T-shaped concrete area lined with fiberglass. It has an approximate surface area of 3,335 square feet. Containment Area 5 has a total containment volume of 76,805 gallons.

Maximum Storage Capacity:

Tank 22	66,100 gallons
Tank 23	66,100 gallons
Tank 24	66,100 gallons
Tank 30	5,800 gallons

Maximum Treatment Capacity:

Tank 22	945 gallons per minute
Tank 23	1,350 gallons per minute
Tank 24	945 gallons per minute

Waste Types:

Inorganic aqueous and alkaline or aqueous and alkaline-compatible wastes

RCRA Waste Codes:

This Unit can store and treat hazardous waste with the RCRA Hazardous Waste Codes indicated in Table 4, Column 1.

State Waste Codes:

This Unit can store and treat hazardous waste with the California Hazardous Waste Codes indicated in Table 5, Column 1.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit, such as equipment used in bulk transfer, is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

1. The Permittee shall not treat wastes in Tank 30.

Unit 18:

Main Treatment System (Area III-A2-3)

Location:

This Unit is located near the central-southern portion of the Facility (See Figures 2 and 12).

Activity Type:

Storage and treatment in tanks

Activity Description:

This Unit is the main treatment system and consists of eleven tanks: Tanks 33A, 33B, 33C (33A/B/C), 34A, 34B, and 34C (34 A/B/C), 35, 36, 37, 38 and 11.

Tanks 33A/B/C and 34 A/B/C are used to store and treat inorganics and corrosives waste. Treatment includes neutralization, precipitation and coagulation. Reagents used in Tanks 33A/B/C and 34A/B/C may include sulfuric acid, sodium hydroxide, calcium hydroxide, sodium sulfide, sodium hydrosulfide, sodium bisulfite, sodium metabisulfite, ferric chloride, zinc sulfate, ferrous sulfate, powder carbon/bentonite, hydrogen peroxide/oxidizer, coagulant, flocculant, chelation breaker, emulsion breaker, antifoam

or an equivalent reagent. Neutralization is performed by blending and pH adjustment. After treatment in Tanks 33A/B/C and 34A/B/C, waste may also be transferred to other on-site tanks or shipped off-site for further processing. See Appendix G of the Part B Permit Application for specific details.

Tanks 35 and 36 are Flash Mix and Flocculation Tanks. These tanks have a compartment where reagent is added and mixed. Afterwards the waste flows to the main part of the tank where flocculation occurs. Reagents used in Tanks 35 and 36 may include coagulant, flocculant or an equivalent reagent.

Tanks 37 and 38 are Lamella Gravity Settler tanks. Tank 37 receives waste treated by coagulation/flocculation from Tank 35, which is mounted onto Tank 37. Tank 38 receives waste treated by coagulation/flocculation from Tank 36, which is mounted onto Tank 38. Tanks 37 and 38 provide additional treatment by gravity sedimentation/clarification/decantation. Solids and sludge settle to the bottom of Tanks 37 and 38. The aqueous and alkaline waste phase is separated and decanted.

Tank 11 is a sludge thickener treatment tank and is used to dewater (“thicken”) the solids and sludge phase from Tanks 37 and 38. This tank receives, stores, and accumulates liquid waste and sludge to be treated by the filter presses. Solids from the liquid waste and sludge settle to the bottom of the cone-bottom shaped tank and thicken. The thickened sludge at the bottom of the tank is pumped to filter presses to remove additional water from the sludge. The aqueous and alkaline waste at the top of the tank is decanted and pumped back to on-site tanks for further treatment or to discharge tanks 9, 10, 52, 53, 70, 71, 72, 73, or 74 for testing.

Physical Description:

Tanks 33AB/C, 34A/B/C, 35, 36, 37, 38, and 11 are located in Containment Area 3.

Tanks 33A/B/C are aboveground, open-roof, rectangular carbon steel treatment tanks with fiberglass reinforced plastic lining separated into three compartments (A, B, and C), used in a cascade fashion. Each compartment is 16 feet wide, 8 feet long and 8 feet high.

Tanks 34A/B/C are three individual, connected, aboveground, open-roof, rectangular carbon steel treatment tanks with a fiberglass reinforced plastic lining. These tanks are typically used in a cascade fashion. Tank 34A is 16 feet wide by 7.5 feet long by 8 feet high. Tanks 34B and 34C are both 20 feet wide by 6 feet long by 8 feet high.

Tanks 35 and 36, the Flash Mix and Flocculation tanks, are aboveground, open-roof, unlined, rectangular carbon steel tanks with dimensions of 4 feet wide by 4 feet long by 4 feet high. Within Tanks 35 and 36 are compartments where reagent addition and mixing is performed. Tank 35 is mounted on Tank 37 (Lamella Gravity Settler). Tank 36 is mounted on Tank 38 (Lamella Gravity Settler).

Tanks 37 and 38, the Lamella Gravity Settler tanks, are aboveground, open-roof, unlined, rectangular carbon steel tanks, with dimensions of approximately 10 feet 8 inches wide by 10 feet 8 inches long by 19 feet 1 inch high. Tanks 37 and 38 contain inclined parallel-tube settling packs with a pyramid bottom (9-ft-10 inch high top and 9-ft 3-inch high pyramid bottom).

Tank 11 is an aboveground, open-roof, vertical cylinder carbon steel tank lined with vinyl ester fiberglass resin. The dimensions for Tank 11 are 12 feet 10 inches in diameter and 17 feet 2 inches high with a cone-shaped bottom (8 feet tall cylinder top with 9 feet 2 inches long cone bottom)

Secondary containment for the Unit is provided by Containment Area 3 (See Figures 2 and 12). Containment Area 3 is a rectangular concrete area with fiberglass lining and is covered by a roof and surrounded by two walls on the west and south sides to minimize precipitation collection. It has an approximate surface area of 5,335 square feet and has a total containment volume of 33,048 gallons.

Maximum Storage Capacity:

Tank 11	9,600 gallons
Tank 33A	7,400 gallons
Tank 33B	7,400 gallons
Tank 33C	7,400 gallons
Tank 34A	6,900 gallons
Tank 34B	6,900 gallons
Tank 34C	6,900 gallons
Tank 35	300 gallons
Tank 36	300 gallons
Tank 37	9,300 gallons
Tank 38	9,300 gallons

Maximum Treatment Capacity:

Tank 11	750 gallons per minute
Tank 33A	1,080 gallons per minute
Tank 33B	1,080 gallons per minute
Tank 33C	1,080 gallons per minute
Tank 34A	1,080 gallons per minute
Tank 34B	1,080 gallons per minute
Tank 34C	1,080 gallons per minute
Tank 35	1,080 gallons per minute
Tank 36	1,080 gallons per minute
Tank 37	1,080 gallons per minute
Tank 38	1,080 gallons per minute

Waste Types:

Acidic and alkaline inorganic wastes

RCRA Waste Codes:

This Unit can store and treat hazardous waste with the RCRA Hazardous Waste Codes indicated in Table 4, Column 1.

State Waste Codes:

This Unit can store and treat hazardous waste with the California Hazardous Waste Codes indicated in Table 5, Column 1.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit, such as equipment used in bulk transfer, is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

None

Unit 19:

Filter Presses 1 through 4 (Area III-A2-4)

Location:

This Unit is located near the central-southern portion of the Facility (See Figures 2 and 12).

Activity Type:

Treatment in miscellaneous unit
Treatment and storage in containers

Activity Description:

This Unit consists of Filter Presses 1, 2, 3, and 4. The Filter Presses are used to separate liquids from solids in sludge waste streams generated from treatment operations conducted at the Facility. The filter presses are on an elevated platform, allowing the filter cake to drop directly into roll-off bins. The solids from the filter presses are consolidated and stored in Units 8, 9, 10, 12, or 13 (Container Storage Areas). The liquids from the filter presses are either returned to on-site tanks for additional treatment or transferred to the discharge tanks 9, 10, 52, 53, 70, 71, 72, 73, or 74 for testing.

Containers DB1 and DB2 are used to clean filter plates from filter presses 1, 2, 3, 4, 5, 6 and 8. Polyethylene covers (0.5-inch thick) are clamped on top of the containers while the filter plates are soaking in an acid solution. After the filter plates have been removed from the containers DB1 and DB2, the waste solution is pumped into totes. A composite sample of the waste solution is analyzed. The totes are labeled and moved to a container storage area (Units 8, 9, 10, 11, 12, or 13) for 48 hours pending disposition, then transferred to Tanks 19, 20, 21, 22, 23, 24 (Units 16, or 17) for treatment. Containers DB1 and DB2 are used for approximately 2 to 3 days every 3 months. These containers are clean, empty and covered when not in use and are stored in this Unit.

Physical Description:

FP	Make	Model	Total Volume Ft ³	Total Area Ft ²	Vol/Chamber Ft ³	Chambers	Plate Style
1	JWI	4700	47	540	0.9	50	Non-gasketed
2	JWI	4700	47	540	0.9	50	Non-gasketed
3	Augerot	48A D-1-1200-100-30-3	60	1200	1.2	50	Non-gasketed
4	Augerot	48A D-1-1200-100-30-3	60	1200	1.2	50	Non-gasketed

Containers DB1 and DB2 are aboveground, open-roof, rectangular concrete containers with an epoxy lining. Each container has dimensions of 7.5 feet long by 4 feet wide by 5 feet tall.

Secondary containment for this Unit is provided by Containment Area 14. Containment Area 14 is a pentagonal area with an approximate surface area of 3,650 square feet and has a total containment volume of 14,971 gallons.

Maximum Treatment Capacity:

Filter Press 1 370 gallons/minute
 Filter Press 2 370 gallons/minute
 Filter Press 3 370 gallons/minute
 Filter Press 4 370 gallons/minute

Maximum Storage Capacity:

Container DB1	896 gallons
Container DB2	896 gallons
4 Roll-off Bins	20 cubic yards (each)

Waste Types:

Sludges and solids from inorganic waste

RCRA Waste Codes:

This Unit can treat hazardous waste with the RCRA Hazardous Waste Codes indicated in Table 4, Column 1.

State Waste Codes:

This Unit can treat hazardous waste with the California Hazardous Waste Codes indicated in Table 5, Column 1.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

1. The Permittee shall inspect the filter presses and containers at least once each operating day to detect corrosion or releases of waste. The Permittee shall document the inspection results in the operating record.
 2. Adequate secondary containment must be provided. The secondary containment for the filter presses and containers shall be inspected at least once each operating day to detect erosion or signs of releases of waste. The Permittee shall document the inspection results in the operating record.
 3. Containers DB1 and DB2 are not authorized for storage.
-
-

Unit 20:

Filter Presses 5 and 6 (Area III-A2-5)

Location:

This Unit is located near the southeastern portion of the Facility (See Figures 2 and 12).

Activity Type:

Treatment in miscellaneous unit
 Storage in containers

Activity Description:

This Unit consists of Filter Presses 5 and 6. The Filter Presses are used to separate liquids from solids in sludge waste streams generated from treatment operations conducted at the Facility. The filter presses are on an elevated platform, allowing the filter cake to drop directly into roll-off bins. The solids from the filter presses are consolidated and stored in Units 8, 9, 10, 12 or 13 (Container Storage Areas). The liquids from the filter presses are either returned to on-site tanks for additional treatment or transferred to the discharge tanks 9, 10, 52, 53, 70, 71, 72, 73, or 74 for testing.

Physical Description:

FP	Make	Model	Total Volume Ft ³	Total Area Ft ²	Vol/Chamber Ft ³	Chambers	Plate Style
5	J-Press	1200N32-50/83-60/100SN	100	1210	1.2	83	Non-gasketed
6	J-Press	1200N32-50/83-60/100SN	100	1210	1.2	83	Non-gasketed

Secondary containment for this Unit is provided by Filter Press Area 2 (See Figures 2 and 12). Filter Press Area 2 is a rectangular area with an approximate surface area of 646 square feet and a total containment volume of 386 gallons.

Maximum Storage Capacity:

2 Roll-off Bins 42 cubic yards (each)

Maximum Treatment Capacity:

Filter Press 5 370 gallons per minute
 Filter Press 6 370 gallons per minute

Waste Types:

Sludge and solids from inorganic waste

RCRA Waste Codes:

This Unit can treat hazardous waste with the RCRA Hazardous Waste Codes indicated in Table 4, Column 1

State Waste Codes:

This Unit can treat hazardous waste with the California Hazardous Waste Codes indicated in Table 5, Column 1.

Air Emission Standards:

Equipment used in this Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

1. The Permittee shall inspect the filter presses at least once each operating day to detect corrosion or releases of waste. The Permittee shall document the inspection results in the operating record.
2. Adequate secondary containment must be provided. The secondary containment for the filter presses shall be inspected at least once each operating day to detect erosion or signs of releases of waste. The Permittee shall document the inspection results in the operating record.

Unit 21:

Main Treatment System (Area III-A2-6)

Location:

This Unit is located near the central portion of the Facility (See Figures 2 and 12).

Activity Type:

Storage and treatment in tanks

Activity Description:

This Unit consists of one tank: Tank 45. Tank 45 is used to treat the solid/precipitate slurry from tanks 37 and 38 of Unit 18, and other on-site tanks. Treatment is conducted by dewatering (“thickening”) the solid/precipitate slurry. Wastes received and stored in Tank 45 are subsequently treated by filter presses 1, 2, 3, 4, 5, or 6. Solids and sludges settle to the bottom of the cone-bottom shaped tank and thicken. The thickened sludge at the bottom of the tank is pumped to filter presses 1, 2, 3, 4, 5, or 6 to remove additional water from the sludge. The alkaline aqueous phase at the top of the tank is decanted and pumped back to on-site tanks for further treatment or to discharge tanks 9, 10, 52, 53, 70, 71, 72, 73, or 74 for testing. See Appendix G of the Part B Permit Application for specific details.

Physical Description:

Tank 45 is an aboveground, closed-roof, vertical cylinder fiberglass tank lined with vinyl ester fiberglass resin. It is 12 feet in diameter and 21 feet 10 inches high with a cone-shaped bottom (14 feet tall cylinder with 7 feet 10 inches long cone bottom).

Secondary containment for this Unit is provided by Containment Area 6 (See Figures 2 and 12). Containment Area 6 is a rectangular concrete area lined with fiberglass. It has an approximate surface area of 1,386 square feet and has a total containment volume of 37,223 gallons.

Maximum Storage Capacity:

Tank 45 12,100 gallons

Maximum Treatment Capacity:

Tank 45 750 gallons per minute

Waste Types:

Inorganic waste that are neutralized from treatment

RCRA Waste Codes:

This Unit can store and treat hazardous waste with the RCRA Hazardous Waste Codes indicated in Table 4, Column 1.

State Waste Codes:

This Unit can store and treat hazardous waste with the California Hazardous Waste Codes indicated in Table 5, Column 1.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit, such as equipment used in bulk transfer, is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

None

Unit 22:

Inorganic Waste Polishing (Area III-A3-2)

Location:

This Unit is located near the western central portion of the Facility (See Figures 2 and 12).

Activity Type:

Treatment in miscellaneous unit

Activity Description:

This Unit consists of four treatment units, which are labeled in the Operation Plan as follows: Tanks 75 A, 75 B, (75A/B), 76A and 76B (76 A/B). The treatment units are used to treat or polish inorganic waste that requires additional contaminant removal prior to discharge to the POTW. This Unit uses two polishing treatment technologies. Tanks 75A/B use membrane filtration and Tanks 76A/B use ultraviolet oxidation.

The wastes generated by this Unit include sludge and spent media (e.g., resin, sand, gravel, garnet, clay, diatomaceous earth, or other media). These wastes are then transferred and consolidated with compatible waste and stored in Units 8, 9, 10, 12 or

13 until shipped off-site to a permitted TSDF. See Appendix G of the Part B Permit Application for specific details.

Physical Description:

Tanks 75A and 75B are aboveground treatment units with dimensions of 7 feet 1 inch wide by 25 feet 5 inches long by 10 feet high. Each treatment unit contains long nested tubes of micro-filtration membranes (nominal pore size 0.1-0.2 microns).

Tanks 76A and 76B are aboveground treatment units with dimensions of 1 foot 3 inches wide by 11 feet long by 1 foot 10 inches high. These treatment units are enclosed with packed arrays of Ultraviolet (UV) emitting lamps.

Secondary containment for this Unit is provided by Containment Area 18. Containment Area 18 has a concrete base and is covered by a roof that prevents the containment area from collecting precipitation. It has an approximate surface area of 877 square feet and a total containment volume of 2,459 gallons.

Maximum Treatment Capacity:

Tank 75A	96 gallons per minute
Tank 75B	96 gallons per minute
Tank 76A	100 gallons per minute
Tank 76B	100 gallons per minute

Waste Types:

Inorganic waste from other treatment tanks that require additional polishing

RCRA Waste Codes:

This Unit can treat hazardous waste with RCRA Hazardous Waste Codes indicated in Table 4, Column 1.

State Waste Codes:

This Unit can treat hazardous waste with California Hazardous Waste Codes indicated in Table 5, Column 1.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit, such as equipment used in bulk transfer, is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

None

Unit 23:

Organics Treatment/Storage (Area III-B1)

Location:

This Unit is located near the northeastern portion of the Facility (See Figures 2 and 13).

Activity Type:

Storage and treatment in tanks

Activity Description:

This Unit consists of eight tanks: Tank 56, 57, 58, 59, 60, 61, 62 and 63. The tanks are used to store and treat aqueous and/or organic waste from other hazardous waste management units at the Facility. Reagents used for pre-treatment may include sulfuric acid, sodium hydroxide, antifoam, or an equivalent reagent. See Appendix G of the Part B Permit Application for specific details.

Physical Description:

The eight aboveground storage tanks in this Unit are arranged in two adjacent rows of four tanks per row. Each of the tanks is cylindrical with a roof made of fiberglass reinforced plastic vented to an emissions control system. Each tank is 22 feet high with a diameter of 12 feet.

Secondary containment for this Unit is provided by Containment Area 12 (See Figures 2 and 13). Containment Area 12 is a rectangular concrete base lined with fiberglass with an approximate surface area of 2,666 square feet and has a total containment volume of 27,611 gallons.

Maximum Storage Capacity:

Tank 56	17,000 gallons
Tank 57	17,000 gallons
Tank 58	17,000 gallons
Tank 59	17,000 gallons
Tank 60	17,000 gallons
Tank 61	17,000 gallons
Tank 62	17,000 gallons
Tank 63	17,000 gallons

Maximum Treatment Capacity:

Tank 56	250 gallons per minute
Tank 57	250 gallons per minute
Tank 58	250 gallons per minute
Tank 59	250 gallons per minute
Tank 60	250 gallons per minute
Tank 61	250 gallons per minute
Tank 62	250 gallons per minute
Tank 63	250 gallons per minute

Waste Types:

Aqueous and/or organic waste containing organic compounds, immiscible hydrocarbons, oils and/or inorganic compounds

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in [Table 4](#), Column 2.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in [Table 5](#), Column 2.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

None

Unit 24:

Multi-Use Tanks (Area III-C-1)

Location:

This Unit is located near the southern central portion of the Facility (Figures 2 and 14).

Activity Type:

Storage and treatment in tanks

Activity Description:

This Unit consists of two tanks: Tanks 1 and 2. The tanks are used to receive, consolidate, blend, pre-treat and/or re-circulate waste requiring treatment and/or additional treatment. Pre-treatment may include pH adjustment, and neutralization, consolidation, commingling and blending of waste, emulsion breaking, chelation breaking, foam control, odor control, oxidation/reduction, metals precipitation, gravity sedimentation, and mixing. Reagents used in pre-treatment in Tanks 1 and 2 may include sulfuric acid, sodium hydroxide, sodium bisulfite, zinc sulfate, hydrogen peroxide/oxidizer, chelation breaker, emulsion breaker, antifoam, or an equivalent reagent. See Appendix G of the Part B Permit Application for specific details.

Physical Description:

Tanks 1 and 2 are aboveground, vertical cylindrical tanks made of fiberglass reinforced plastic. Both Tanks are open-roof and unlined. Tank 1 has dimensions of 31 feet in diameter by 17.5 feet high. Tank 2 has dimensions of 18 feet in diameter by 21 feet high.

Secondary containment for the Unit is provided by Containment Area 1 (See Figures 2 and 14). Containment Area 1 is a concrete area with fiberglass reinforced plastic lining and is covered by a roof and surrounded by two walls on the west and south sides to minimize precipitation collection. It has a surface area of approximately 2,847 square feet and a total containment volume of 88,411 gallons.

Maximum Storage Capacity:

Tank 1 87,600 gallons
Tank 2 36,200 gallons

Maximum Treatment Capacity:

Tank 1 1,080 gallons per minute
Tank 2 1,080 gallons per minute

Waste Types:

Organic and/or inorganic compounds

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in [Table 4](#), Column 3.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in [Table 5](#), Column 3.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

None

Unit 25:

Multi-Use Tanks (Area III-C-2)

Location:

This Unit is located near the southern central portion of the Facility, along the southern boundary of the Facility (Figures 2 and 14).

Activity Type:

Storage and treatment in tanks

Activity Description:

This Unit consists of two tanks: Tanks 5 and 6. The tanks are used to receive, consolidate, blend, pre-treat and/or re-circulate waste requiring treatment. Pre-treatment may include pH adjustment, and neutralization, consolidation, commingling and blending of waste, emulsion breaking, chelation breaking, foam control, odor control, oxidation/reduction, metals precipitation, gravity sedimentation, and mixing. Reagents used in pre-treatment in Tanks 5 and 6 may include sulfuric acid, sodium hydroxide, sodium bisulfite, chelation breaker, antifoam, or an equivalent reagent. See Appendix G of the Part B Permit Application for specific details.

Physical Description:

Tanks 5 and 6 are aboveground, closed-roof, vertical cylindrical tanks made of fiberglass reinforced plastic. Both tanks have dimensions of 14 feet in diameter by 18 feet high.

Secondary containment for the Unit is provided by Containment Area 2 (See Figures 2 and 14). Containment Area 2 is a concrete pad lined with fiberglass and surrounded by a containment berm. It has a surface area of approximately 1,344 square feet and a total containment volume of 19,143 gallons.

Maximum Storage Capacity:

Tank 5	18,500 gallons
Tank 6	18,500 gallons

Maximum Treatment Capacity:

Tank 5	250 gallons per minute
Tank 6	250 gallons per minute

Waste Types:

Organic and/or inorganic compounds

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in [Table 4](#), Column 3.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in [Table 5](#), Column 3.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

None

Unit 26:

Multi-Use Tanks (Area III-C-3)

Location:

This Unit is located near the central portion of the Facility (Figures 2 and 14).

Activity Type:

Storage and treatment in tanks

Activity Description:

This Unit consists of Tank 18, which is used to receive, consolidate, blend, pre-treat

and/or re-circulate waste requiring treatment. Pre-treatment may include pH adjustment, and neutralization, consolidation, commingling and blending of waste, emulsion breaking, foam control, odor control, oxidation/reduction, metals precipitation, gravity sedimentation, and mixing. Reagents used in pre-treatment in Tank 18 may include sulfuric acid, sodium hydroxide, sodium bisulfite, antifoam, or an equivalent reagent. See Appendix G of the Part B Permit Application for specific details.

Physical Description:

Tank 18 is an aboveground, closed-roof, unlined, vertical cylindrical tank made of fiberglass reinforced plastic. Tank 18 is 18 feet high and 18 feet in diameter.

Secondary containment for the Unit is provided by Containment Area 6 (See Figures 2 and 14). Containment Area 6 is a concrete area with fiberglass liner. It has a surface area of approximately 1,386 square feet and a total containment volume of 37,223 gallons.

Maximum Storage Capacity:

Tank 18 30,500 gallons

Maximum Treatment Capacity:

Tank 18 250 gallons per minute

Waste Types:

Organic and/or inorganic compounds

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in [Table 4](#), Column 3.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in [Table 5](#), Column 3.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit is subject to the applicable air emission requirements of

California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

None

Unit 27:

Multi-Use Tanks (Area III-C-4)

Location:

This Unit is located near the central portion of the Facility (Figures 2 and 14).

Activity Type:

Storage and treatment in tanks

Activity Description:

This Unit consists of Tank 55, which is used to receive, consolidate, blend, pre-treat and/or re-circulate waste requiring treatment. Pre-treatment may include pH adjustment, and neutralization, consolidation, commingling and blending of waste, emulsion breaking, foam control, oxidation/reduction, and mixing. Reagents used in pre-treatment in Tank 55 may include sulfuric acid, sodium hydroxide, sodium bisulfite, antifoam, or an equivalent reagent. See Appendix G of the Part B Permit Application for specific details.

Physical Description:

Tank 55 is an aboveground, open-roof, rectangular carbon steel tank lined with fiberglass reinforced plastic. Tank 55 has dimensions of 4 feet wide by 4 feet long by 4 feet high.

Secondary containment for the Unit is provided by Containment Area 7 (See Figures 2 and 14). Containment Area 7 has a concrete base surrounded by a containment berm wall. It has surface area of approximately 715 square feet and a total containment volume of 9,424 gallons.

Maximum Storage Capacity:

Tank 55 400 gallons

Maximum Treatment Capacity:

Tank 55 270 gallons per minute

Waste Types:

Organic and/or inorganic compounds

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in [Table 4](#), Column 3.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in [Table 5](#), Column 3.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

None

Unit 28:

Cyanide Pre-Treatment/Storage (Area III-D)

Location:

This Unit is located near the south central portion of the Facility (See Figures 2 and 15)

Activity Type:

Storage and treatment in tanks

Activity Description:

This Unit consists of two tanks: Tank 7 and 8. The tanks are used to store and treat waste with cyanide and/or waste compatible with cyanide waste. Reagents used in Tanks 7 and 8 for treatment may include sodium hydroxide, antifoam, or an equivalent reagent. The treated cyanide waste may be transferred to bulk containers in Units 1, 7, or 8 for shipment off-site to a TSDF.

Physical Description:

Tanks 7 and 8 are aboveground tanks constructed with unlined carbon steel. The tanks have closed roofs constructed of fiber-reinforced-plastic and are vented to vapor control systems. Both tanks are vertical cylinder tanks, 14-ft in diameter and 18-ft high.

Secondary containment for the Unit is provided by Containment Area 2 (See Figures 2 and 15). Containment Area 2 is a concrete pad, lined with fiberglass. It has a surface area of approximately 1,344 square feet and a total containment volume of 19,143 gallons. Containment Area 2 is covered by a roof which prevents precipitation from falling into the secondary containment area.

Maximum Storage Capacity:

Tank 7	18,500 gallons
Tank 8	18,500 gallons

Maximum Treatment Capacity:

Tank 7	250 gallons per minute
Tank 8	250 gallons per minute

Waste Types:

Cyanide-bearing and/or cyanide compatible waste. Cyanide compatible waste means any waste, with or without the presence of metal salts or other contaminants that

contains cyanide in excess of 10 mg/l and has a pH above 7.0 and any waste material compatible with such wastes.

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in [Table 4](#), Column 4.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in [Table 5](#), Column 4.

Air Emission Standards:

Equipment used in this Unit, such as equipment used in bulk transfer, is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

None

Unit 29:

Batch Treatment (Area III-E-1)

Location:

This Unit is located near the central-southern portion of the Facility, along the southern boundary of the Facility (See Figures 2 and 16).

Activity Type:

Storage and treatment in tanks

Activity Description:

This Unit consists of five tanks: Tank 31A/B/C, 39, 40, 41, and 42. The tanks are used for batch treatment of waste requiring additional specialized pre-treatment, treatment, or polishing to meet the Sanitation Districts of Los Angeles County (LACSD) permit requirements. Tanks 39, 40, 41 and 42 can also be used to provide surge (overflow) capacity for Unit 18 (Tanks 37, 38), and Unit 6 (Tanks 47A/B). See Appendix G of the

Part B Permit Application for specific details.

Pre-treatment, treatment or polishing may include consolidation, commingling and blending of waste, chelation breaking, emulsion breaking, adsorption, ion exchange, decanting, foam control, oxidation/reduction, pH adjustment, neutralization, metals precipitation, coagulation, flocculation, gravity sedimentation, dissolved or dispersed air or gas flotation.

Reagents used in Tanks 31A/B/C, 39, 40, 41, and 42 for pre-treatment or treatment may include sulfuric acid, sodium hydroxide, calcium hydroxide, sodium sulfide, sodium hydrosulfide, sodium bisulfite, sodium metabisulfite, ferric chloride, zinc sulfate, ferrous sulfate, powder carbon/bentonite, hydrogen peroxide/oxidizer, coagulant, flocculant, chelation breaker, emulsion breaker, antifoam, or an equivalent reagent.

Physical Description:

Tank 31 is a single tank which has been segregated into three equal compartments along its length. The tank, consisting of the three compartments, has been designated Tank 31A/B/C. Each compartment has dimensions of 8 feet 2 inches wide by 4 feet 7 inches long by 8 feet 6 inches high. The tank (and thus each compartment) is constructed with carbon steel and lined with fiberglass reinforced plastic.

Tanks 39, 40, 41 and 42 are aboveground, open-roof, vertical cylinder carbon steel tanks. Each tank has dimensions of 9 feet in diameter by 22.5 feet high.

Secondary containment is provided by Containment Area 3 (See Figures 2 and 16). Containment Area 3 is a rectangular concrete area with fiberglass lining and is covered by a roof and surrounded by two walls on the west and south sides to minimize precipitation collection. It has an approximate surface area of 5,335 square feet and a total containment volume of 33,048 gallons.

Maximum Storage Capacity:

Tank 31A	2,300 gallons
Tank 31B	2,300 gallons
Tank 31C	2,300 gallons
Tank 39	7,040 gallons
Tank 40	7,040 gallons
Tank 41	7,040 gallons
Tank 42	7,040 gallons

Maximum Treatment Capacity:

Tank 31A	300 gallons per minute
Tank 31B	300 gallons per minute
Tank 31C	300 gallons per minute

Tank 39 300 gallons per minute
Tank 40 300 gallons per minute
Tank 41 300 gallons per minute
Tank 42 300 gallons per minute

Waste Types:

This Unit typically treats any waste stream generated from: Units 4, 6, 15, 18, 21, 22, 23, 24, 25, 26, 27, 30, 31, 32, 33, or 34 (on-site treatment system); Units 1, 7, or 8 (waste receiving stations); and/or Units 9, 10, 11, 12, or 13 (container storage areas).

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in [Table 4](#), Column 5.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in [Table 5](#), Column 5.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

None

Unit 30:

Batch Treatment (Area III-E-2)

Location:

This Unit is located near the central portion of the Facility (See Figures 2 and 16).

Activity Type:

Storage and treatment in tanks

Activity Description:

This Unit consists of two tanks: Tanks 66, and 67. The tanks are used for batch treatment of waste requiring additional specialized pre-treatment, or polishing to meet the Los Angeles County Sanitation District permit requirements.

Pre-treatment, treatment or polishing may include consolidation, commingling and blending of waste, chelation breaking, emulsion breaking, adsorption, ion exchange, decanting, foam control, oxidation/reduction, pH adjustment, neutralization, metals precipitation, coagulation, flocculation, gravity sedimentation, dissolved or dispersed air or gas flotation.

Reagents used in Tanks 66 and 67 for pre-treatment or treatment may include sulfuric acid, sodium hydroxide, calcium hydroxide, sodium sulfide, sodium hydrosulfide, sodium bisulfite, sodium metabisulfite, ferric chloride, zinc sulfate, ferrous sulfate, powder carbon/bentonite, hydrogen peroxide/oxidizer, coagulant, flocculant, chelation breaker, emulsion breaker, antifoam, or an equivalent reagent.

Physical Description:

Tank 66 is an aboveground, open top, vertical cylinder mild steel tank with a fiberglass reinforced plastic liner and a cone bottom. Tank 66 has dimensions of 12 feet in diameter by 22 feet 7 inches high.

Tank 67 is an aboveground, open-roof, unlined rectangular mild steel tank with dimensions of 4 feet wide by 5 feet long by 4 feet high.

Secondary containment is provided by Containment Area 7 (See Figures 2 and 16). Containment Area 7 is a rectangular containment area with a concrete base. It has an approximate surface area of 715 square feet and a total containment volume of 9,424 gallons. Containment Area 8 provides secondary containment for overflow from Containment Area 7. Containment Area 8 has an approximate surface area of 6,200 square feet and a total containment volume of 32,358 gallons. The combined containment volume is 41,782 gallons.

Maximum Storage Capacity:

Tank 66	17,500 gallons
Tank 67	500 gallons

Maximum Treatment Capacity:

Tank 66 300 gallons per minute
Tank 67 300 gallons per minute

Waste Types:

This Unit typically treats any waste stream generated from: Units 4, 6, 15, 18, 21, 22, 23, 24, 25, 26, 27, 30, 31, 32, 33, or 34 (on-site treatment system); Units 1, 7, or 8 (waste receiving stations); and/or Units 9, 10, 11, 12, or 13 (container storage areas).

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in [Table 4](#), Column 5.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in [Table 5](#), Column 5.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

None

Unit 31:

Portable Media Filtration /Absorption (Area III-G)

Location:

This Unit consists of portable equipment subsystems that are attached to on-site treatment systems. These portable equipment subsystems include portable media

treatment units designated in the Operation Plan as (PMT) 48A, 48B, 49A, 49B, 01, 02, 03, 04, 05, and 06. These portable equipment subsystems may be used and/or placed in any on-site treatment system, but these portable media treatment units are frequently used in Unit 1. When not in use, these portable equipment subsystems may be stored in Unit 1.

Activity Type:

Treatment in miscellaneous units

Activity Description:

This Unit consists of portable media treatment units that contain various filter/adsorption media (e.g., activated carbon, sand, resin, gravel, clay, garnet, graded media, diatomaceous earth). These portable media treatment units are used to treat waste requiring treatment or polishing by media filtration/adsorption.

Portable media treatment units include ten carbon steel pressure vessels, designated in the Operation Plan as PMT 48A, PMT 48B, PMT 49A, and PMT 49B, PMT-01, PMT-02, PMT-03, PMT-04, PMT-05, and PMT-06. They can hold various types of filtration/adsorption media, which include but is not limited to carbon, resin, sand, gravel, garnet, clay, diatomaceous earth, impregnated alumina or zeolite, or other media. The media can be changed, as needed, depending on the treatment requirements. The layout of the portable equipment subsystems will vary depending where the equipment is needed. Adequate secondary containment must be present in the areas where the portable media treatment units are being used.

The waste generated by this Unit include sludge and spent media (e.g., granular activated carbon, resin, sand, gravel, garnet, clay, diatomaceous earth, or other media), and are stored with compatible waste in an on-site container storage unit until it is shipped off-site.

Physical Description:

PMT 48A, PMT 48B, PMT 49A, and PMT 49B are aboveground, closed-roof, pressurized, vertical cylinder carbon steel tanks with epoxy lining with a 4 feet diameter and 8 feet 9.5 inches high.

PMT-01, PMT-02, PMT-03, PMT-04, PMT-05, and PMT-06 are carbon steel pressure vessels rated at 50 psi. These PMTs are 4 feet diameter and 8 feet 9.5 inches high.

Maximum Treatment Capacity:

PMT 48A	875 gallons per minute
PMT 48B	875 gallons per minute
PMT 49A	875 gallons per minute

PMT 49B	875 gallons per minute
PMT-01	875 gallons per minute
PMT-02	875 gallons per minute
PMT-03	875 gallons per minute
PMT-04	875 gallons per minute
PMT-05	875 gallons per minute
PMT-06	875 gallons per minute

Waste Types:

This Unit treats any type of waste that is authorized to be accepted at the Facility and appropriate for the treatment system, except for waste containing cyanide.

RCRA Waste Codes:

This Unit can treat any waste with a RCRA Hazardous Waste Code acceptable by the waste treatment system with which the portable media treatment unit is associated. Acceptable RCRA Hazardous Waste Codes for the portable media treatment units are listed in Table 4, Column 7.

State Waste Codes:

This Unit can treat any waste with a State Hazardous Waste Code acceptable by the waste treatment system with which the portable media treatment unit is associated. Acceptable State Hazardous Waste Codes for the portable media treatment units are listed in Table 5, Column 7.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

1. The Permittee shall not treat cyanide-containing waste in this Unit.
2. The Permittee shall ensure the vessel, and all connections of this Unit to any treatment unit are within secondary containment areas while in use.
3. Prior to use, the Permittee shall ensure the secondary containment area of the

treatment system that this Unit will be connected to has adequate secondary containment when adding in the design capacity and displacement volume of this Unit.

4. The Permittee shall ensure no residual waste will leak or escape while this Unit is in transport.
5. The Permittee shall inspect this Unit for damage prior to connecting this Unit to any treatment system.

Unit 32:

Discharge Tanks 9, 10 (Area IV-1)

Location:

This Unit is located near the central-southern portion of the Facility, along the southern boundary of the Facility (See Figures 2 and 17)

Activity Type:

Storage and treatment in tanks

Activity Description:

This Unit consists of two tanks: Tanks 9 and 10. The tanks receive treated wastewater from on-site treatment tanks or storage tanks for storage until sampling and analysis confirms that the wastewater meets the Sanitation Districts of Los Angeles County (LACSD) permit requirements. Otherwise, the wastewater will be treated in these two tanks or returned to the treatment process until the wastewater meets the LACSD permit requirements.

In addition, this Unit may receive bulk waste streams that do not require treatment to meet the LACSD permit requirements if a variance to do so for each specific waste stream has been obtained from the LACSD.

The discharge of treated wastewater from the Facility to LACSD is authorized by LACSD under an Industrial Wastewater Discharge Permit.

Prior to discharge, a representative sample is collected from Tanks 9 and/or 10 and submitted to the Facility's analytical laboratory for analysis. If the analytical results for the sample meet the LACSD permit requirements, then the treated wastewater is pumped to the LACSD sewer system through the discharge point located in the

southwest corner of the Unit.

If the analytical results indicate that the treated waste does not meet any of the LACSD permit requirements, the contents of the tank will require additional treatment or polishing. Additional treatment or polishing can be performed by recycling the contents back for treatment or polishing to Units 4, 6, 15, 18, 21, 22, 23, 24, 25, 26, 27, 29, 30, or 31 or in one or more discharge holding tanks in Units 33 or 34, which include defoaming, sulfide oxidation, and pH adjustment. Reagents used in Tanks 9 and 10 for treatment may include sulfuric acid, sodium hydroxide, hydrogen peroxide/oxidizer, antifoam, or an equivalent reagent.

Physical Description:

Tanks 9 and 10 are aboveground, open-top, carbon steel tanks with a vinyl ester fiberglass resin liner, and 18 feet high with a diameter of 14 feet.

Secondary containment for this Unit is provided by Containment Area 3 (See Figures 2 and 17). Containment Area 3 is constructed of fiber-glass lined concrete and covered by a roof, which prevents precipitation from falling into the secondary containment area. Containment Area 3 has an approximate total surface area of 5,335 square feet and has a total containment volume of 33,048 gallons.

Maximum Storage Capacity:

Tank 9	19,800 gallons
Tank 10	19,800 gallons

Maximum Treatment Capacity:

Tank 9	400 gallons per minute
Tank 10	400 gallons per minute

Waste Types:

Treated wastewater prior to discharge to the LACSD sewer system

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in Table 1.

This Unit stores and treats wastewater prior to discharge to the LACSD. The treated wastewater must meet LACSD wastewater discharge permit limits prior to discharge.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes

indicated in Table 2.

This Unit stores and treats wastewater prior to discharge to the LACSD. The treated wastewater must meet LACSD wastewater discharge permit limits prior to discharge.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

1. Treated wastewater in this Unit must meet the LACSD wastewater discharge permit requirements prior to discharge.

Unit 33:

Discharge Tanks 52, 53 (Area IV-2)

Location:

This Unit is located near the central portion of the Facility (See Figures 2 and 18)

Activity Type:

Storage and treatment in tanks

Activity Description:

This Unit consists to two tanks: Tanks 52 and 53. This Unit receives treated wastewater from on-site treatment tanks or storage tanks for storage until sampling and analysis confirms that the wastewater meets the LACSD permit requirements. Otherwise, the wastewater will be treated in these two tanks or returned to the treatment process until the wastewater meets the LACSD permit requirements.

In addition, this Unit may receive bulk waste streams that do not require treatment to meet the LACSD permit requirements if a variance to do so for each specific waste stream has been obtained from the LACSD.

The discharge of treated wastewater from the Facility to LACSD is authorized by LACSD under an Industrial Wastewater Discharge Permit.

Prior to discharge, a representative sample is collected from Tanks 52 and/or 53 and submitted to the Facility's analytical laboratory for analysis. If the analytical results for the sample meet the LACSD permit requirements, then the treated wastewater is pumped through overhead pipelines to the LACSD sewer system through the discharge point located in the southwest corner of Containment Area 3.

If the analytical results indicate that the treated waste does not meet any of the LACSD permit limits, the contents of the tank will require additional treatment or polishing. Additional treatment or polishing can be performed in this Unit, or by recycling the contents back for treatment or polishing to Units 4, 6, 15, 18, 21, 22, 23, 24, 25, 26, 27, 29, 30, or 31 or in one or more discharge holding tanks in Units 32 or 34, which include defoaming, sulfide oxidation, and pH adjustment. Reagents used in Tanks 52 and 53 for treatment may include sulfuric acid, sodium hydroxide, hydrogen peroxide/oxidizer, antifoam, or an equivalent reagent.

Physical Description:

Tanks 52 and 53 are aboveground, open-top, tanks with fiberglass reinforced plastic, and are 24 feet high with a diameter of 12 feet.

Secondary containment for this Unit is provided by Containment Area 6 (See Figures 2 and 18). Containment Area 6 is constructed of fiber-glass lined concrete. The approximate total surface area of Containment Area 6 is 1,386 square feet and it has a total containment volume of 37,223 gallons.

Maximum Storage Capacity:

Tank 52	18,700 gallons
Tank 53	18,700 gallons

Maximum Treatment Capacity:

Tank 52	400 gallons per minute
Tank 53	400 gallons per minute

Waste Types:

Treated wastewater prior to discharge to the LACSD sewer system.

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in Table 1.

This Unit stores and treats wastewater prior to discharge to the LACSD. The treated wastewater must meet LACSD wastewater discharge permit limits prior to discharge.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in Table 2.

This Unit stores and treats wastewater prior to discharge to the LACSD. The treated wastewater must meet LACSD wastewater discharge permit limits prior to discharge.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

1. Treated wastewater in this Unit must meet the LACSD wastewater discharge permit requirements prior to discharge.

Unit 34:

Discharge Tanks 70, 71, 72, 73, 74 (Area IV-3)

Location:

This Unit is located near the southwestern portion of the Facility, along the southern boundary (See Figures 2 and 10)

Activity Type:

Storage and treatment in tanks

Activity Description:

This Unit consists of five tanks: Tanks 70, 71, 72, 73, and 74. The tanks receive treated

wastewater from on-site treatment tanks or storage tanks for storage until sampling and analysis confirms that the wastewater meets the LACSD permit requirements. Otherwise, the wastewater will be treated in these five tanks or returned to the treatment process until the wastewater meets the LACSD permit requirements.

In addition, this Unit may receive bulk waste streams that do not require treatment to meet the LACSD permit requirements if a variance to do so for each specific waste stream has been obtained from the LACSD.

The discharge of treated wastewater from the Facility to LACSD is authorized by LACSD under an Industrial Wastewater Discharge Permit.

Prior to discharge, a representative sample is collected from Tanks 70, 71, 72, 73, and/or 74 and submitted to the Facility's analytical laboratory for analysis. If the analytical results for the sample meet the LACSD permit requirements, then the treated wastewater is pumped through overhead pipelines to the LACSD sewer system through the discharge point located in the southwest corner of Containment Area 3.

If the analytical results indicate that the treated waste does not meet any of the LACSD permit limits, the contents of the tank will require additional treatment or polishing. Additional treatment or polishing can be performed in this Unit, or by recycling the contents back for treatment or polishing to Units 4, 6, 15, 18, 21, 22, 23, 24, 25, 26, 27, 29, 30, or 31 or in one or more discharge holding tanks in Units 32 or 33, which include defoaming, sulfide oxidation, and pH adjustment. Reagents used in Tanks 70, 71, 72, 73, and 74 for treatment may include sulfuric acid, sodium hydroxide, hydrogen peroxide/oxidizer, antifoam, or an equivalent reagent.

Physical Description:

Tanks 70, 71, 72, 73, and 74 are aboveground, closed-top, cylindrical tanks made of polyethylene. Each tank is 18 feet high with a 12 foot diameter.

Secondary containment for this Unit is provided by Containment Area 17 (See Figures 2 and 10). Containment Area 17 is constructed of concrete. It has a total surface area of approximately 9,401 square feet and has a total containment volume of 32,767 gallons. Containment Area 17 is covered by a roof to prevent precipitation from falling into the secondary containment area.

Maximum Storage Capacity:

Tank 70	13,600 gallons
Tank 71	13,600 gallons
Tank 72	13,600 gallons
Tank 73	13,600 gallons
Tank 74	13,600 gallons

Maximum Treatment Capacity:

Tank 70	400 gallons per minute
Tank 71	400 gallons per minute
Tank 72	400 gallons per minute
Tank 73	400 gallons per minute
Tank 74	400 gallons per minute

Waste Types:

Treated wastewater prior to discharge to the LACSD sewer system.

RCRA Waste Codes:

This Unit can store and treat hazardous waste with RCRA Hazardous Waste Codes indicated in Table 1.

This Unit stores and treats wastewater prior to discharge to the LACSD sewer system. The treated wastewater shall meet LACSD wastewater discharge permit limits prior to discharge.

State Waste Codes:

This Unit can store and treat hazardous waste with California Hazardous Waste Codes indicated in Table 2.

This Unit stores and treats wastewater prior to discharge to the LACSD sewer system. The treated wastewater shall meet LACSD wastewater discharge permit limits prior to discharge.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

1. Treated wastewater in this Unit must meet the LACSD wastewater discharge permit requirements prior to discharge.
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Unit 35:

Drum Crushing Unit

Location:

This Unit is located within Unit 8 near the southeastern portion of the Facility (See Figures 2 and 6).

Activity Type:

Treatment in miscellaneous unit

Activity Description:

The drum crushing unit is a fixed unit that is used to crush and compact drums and containers for transport, disposal or recycle. Containers may contain hazardous waste residue that do not meet California empty as defined by California Code of Regulations, title 22, section 66261.7. Containers may also be rinsed, cleaned, and conditioned in this Unit.

Drums and containers are rinsed by inserting a pressure washer hose into one hole on the lid and a pump into the other hole on the lid. As the pressure washer hose cleans the drum or container, the pump transfers the rinsewater into totes. A composite sample of the waste solution is analyzed. The totes are labeled and moved to a container storage area (Units 8, 9, 10, 11, 12, or 13) pending disposition for 48 hours, then transferred to Tanks 19, 20, 21, 22, 23, 24 (Units 16, or 17) for treatment. The crushed drums or containers are stored in roll-off bins for transport to a disposal or recycling facility.

Physical Description:

The drum crushing unit is a Maren 55 gallon steel drum crusher with dimensions of 5 feet wide by 8 feet high by 4 feet long.

Secondary containment for this Unit is provided by Containment Area 11, which has an approximate total surface area of 5,000 square feet (See Figures 2 and 6). Containment Area 11 is an outdoor, uncovered and concrete paved area. Containment Area 11 has a total containment volume of 89,959 gallons. Containment Area 11 also provides secondary containment for Unit 8 (Waste Receiving Station 3/Container Storage Area 3).

Waste Types:

Drums and containers with hazardous waste residue as listed in Tables 1 and 2.

RCRA Waste Codes

This Unit can treat hazardous waste with RCRA Hazardous Waste Codes indicated in Table 1.

State Waste Codes:

This Unit can treat hazardous waste with California Hazardous Waste Codes indicated in Table 2.

Air Emission Standards:

This Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28.5 (Air Emission Standards for Tanks, Surface Impoundments, and Containers).

Equipment used in this Unit is subject to the applicable air emission requirements of California Code of Regulations, title 22, division 4.5, chapter 14, article 28 (Air Emission Standards for Equipment Leaks).

Unit Specific Special Conditions:

1. The Permittee shall inspect the drum crushing unit at least once each operating day to detect corrosion or releases of waste. The Permittee shall document the inspection results in the operating record.
 2. Adequate secondary containment must be provided. The secondary containment for the drum crushing unit shall be inspected at least once each operating day to detect erosion, cracks or signs of releases of hazardous waste. The Permittee shall document the inspection results in the operating record.
 3. Rinsewater shall be managed as hazardous waste unless the sample analysis determines the rinsewater is non-hazardous.
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PART V. SPECIAL CONDITIONS

1. For the purpose of calculating the permitted maximum capacity limitations for storage and for secondary containment, all containers in the authorized units are assumed to be full, and all hazardous waste that is stored or held in an authorized unit shall be included in the calculation for that unit, including any hazardous waste that is covered by the transfer facility exemption pursuant to California Code of Regulations, title 22, section 66263.18. No container greater than the available capacity, after deducting the displacement of all containers present, shall be stored in any unit.
2. The Permittee shall not store any hazardous waste beyond one year unless the Permittee proves to DTSC's satisfaction that such storage is solely for the purpose of accumulating certain quantities as are necessary to facilitate proper recovery, treatment or disposal pursuant to California Code of Regulations, title 22, section 66268.50.
3. The Permittee shall comply with California Code of Regulations, title 22, section 66268.50 regarding storage of hazardous waste that is restricted from land disposal.
4. The Permittee is prohibited from accepting any hazardous waste listed in [Table 3](#).
5. The Permittee is prohibited from conducting any hazardous waste transfer, storage, treatment or other management activity unless it is specifically described in this Permit or otherwise authorized by DTSC.
6. The Permittee shall conduct sampling activities only within an authorized unit or within a secondary containment system or device of a loading and unloading area designated in the permit.
7. In the event that any cracks, gaps or tears are detected in a hazardous waste management unit or a secondary containment system or device, repairs shall be initiated as soon as possible and completed within one week of discovery of the problem. The Permittee shall notify DTSC within 24 hours whenever a crack, gap or tear is found. Within seven days of discovery of the problem, the Permittee shall notify DTSC in writing of the corrective measures that have been taken.
8. The Permittee shall record a description and the quantity of each hazardous waste received; the method(s) and date(s) of its transfer, treatment, storage or disposal at the Facility; the location of each hazardous waste within the Facility; and the quantity at each location. The record shall include, without limitation, the location of all containers stored in any container storage areas authorized by this

Permit. The record shall also include the quantity at each location.

9. Any non-hazardous waste that is stored or held in a unit authorized by this Permit for management of hazardous waste shall be subject to the conditions of this Permit, including volume calculations, storage capacity limitations, compatibility and inspections.
10. The Permittee shall collect all rainwater and wash water accumulated within the authorized units and secondary containment systems, and determine whether it is hazardous waste; if it is hazardous waste, the Permittee shall manage it accordingly.
11. The Permittee shall conduct a tank assessment with the applicable requirements of California Code of Regulations, Title 22, Sections 66264.191 or 66264.192 for every tank listed in this Permit. The assessment shall be performed at least once every five years or more frequently as recommended by the latest tank assessment.
12. The Permittee shall use its portable tanks only for immediate response to emergencies (e.g. burst pipes, ruptured containers or tanks, breached dikes, etc.) for no more than 48 hour temporary storage. When the portable tank is in use, the portable tank shall be located within an authorized unit with sufficient secondary containment. The Permittee shall submit a written request to DTSC for approval if temporary storage may exceed 48 hours.
13. Prior to moving any portable tanks that previously held a hazardous waste; the Permittee shall rinse and empty the tank. Following rinsing and emptying, the Permittee shall not move the tank unless the tank meets the definition of "empty" in accordance with California Code of Regulations, title 22, section 66261.7.
14. The Permittee is authorized to accept used oil (California State hazardous waste code 221) for storage if laboratory data for polychlorinated biphenyls (PCBs), flashpoint, and halogens are provided per load by the transporter or generator. The laboratory analysis for PCBs, flashpoint, and halogens must be performed by a laboratory certified to properly conduct those specific analyses by the Environmental Laboratory Accreditation Program (ELAP). The Permittee must retain the laboratory data for three years. The used oil containers shall be stored in a permitted storage unit.
15. The Permittee is prohibited from accepting used oil shipments without laboratory data provided per load by the transporter or generator. The Permittee is prohibited from accepting used oil shipments with laboratory data showing concentrations of PCBs above 5 ppm, halogens more than 1000 ppm, or a flashpoint of less than 100°F.
16. The Permittee is not authorized to treat or recycle used oil.

17. The Permittee shall manage any liquid, semisolid, or solid waste that is generated from the air pollution control system, air scrubber as hazardous waste unless laboratory analysis of a representative sample by a qualified ELAP certified lab determines the liquid, semisolid or solid waste is non-hazardous.
18. **Impermeable Coating:** the Permittee shall install and maintain an impermeable coating or liner, chemically resistant to the waste being stored, on the interior surfaces of all secondary containment systems that do not already have impermeable liners or coatings already installed.

The Permittee shall:

1. Within 90 days of the effective date of the Permit, submit for DTSC's review and approval a secondary containment system coating workplan for each secondary containment system describing the procedures for installing an impermeable coating or liner. The impermeable coating or liner must be chemically resistant to the waste being stored and the workplan must include specifications for the proposed impermeable coating or liner, and the schedule for inspection and maintaining the impermeable coating or liner;
2. Within 1 year of DTSC's approval, implement the approved workplan under DTSC's oversight; and
3. Inspect and maintain the protective impermeable coating or liner in accordance with Special Condition 7 of this Permit, the Operation Plan, and the approved schedule for inspecting and maintaining the containment systems described in the approved workplan.
4. Apply additional coating as necessary, based upon visual observation of wear and tear, and in accordance with manufacturer's specifications. In addition, in the event that any damage occurs, the Permittee shall initiate repairs in accordance with Special Condition 7 of this Permit.

PART VI. CORRECTIVE ACTION

A Resource Conservation and Recovery Act Facility Assessment (RFA) was conducted at the facility in March 1997. The RFA included collecting soil samples at four different locations: 1) under a drum storage area used to store alkaline and cyanide wastes; 2) a drum storage area for acid and chromate wastes; 3) two tanks used to store chromate; and 4) a roll-off bin storage area used for temporary storage of filter cake, composed of precipitated metals generated from wastewater treatment. DTSC reviewed the RFA Phase I Summary Report dated May 7, 1997, and concluded that the soil showed no detectable levels of contamination. Upon review of that report, DTSC determined on August 18, 1997 that no further investigation of those areas was warranted at the time.

1. In the event the Permittee identifies an immediate or potential threat to human health and/or the environment, discovers new releases of hazardous waste and/or hazardous constituents, or discovers new Solid Waste Management Units (SWMUs) not previously identified, the Permittee shall notify DTSC orally within 24 hours of discovery and notify DTSC in writing within 10 days of such discovery summarizing the findings including the immediacy and magnitude of any potential threat to human health and/or the environment.
2. DTSC may require the Permittee to investigate, mitigate and/or take other applicable action to address any immediate or potential threats to human health and/or the environment and newly identified SWMUs or releases of hazardous waste and/or hazardous constituents. If and when corrective action is required at the Facility, the Permittee shall conduct corrective action under either a Corrective Action Consent Agreement or an Enforcement Order for Corrective Action issued by DTSC pursuant to Health and Safety Code sections 25187 and 25200.10.
3. To the extent that work being performed pursuant to Part VI of the Permit must be done on property not owned or controlled by the Permittee, the Permittee shall use its best efforts to obtain access agreements necessary to complete work required by this Part of the Permit from the present owner(s) of such property within 30 days of approval of any work plan for which access is required. "Best efforts" as used in this paragraph shall include, at a minimum, a certified letter from the Permittee to the present owner(s) of such property requesting access agreement(s) to allow the Permittee and DTSC and its authorized representatives access to such property and the payment of reasonable sums of money in consideration of granting access. The Permittee shall provide DTSC with a copy of any access agreement(s). In the event that agreements for the access are not obtained within 30 days of approval of any work plan for which access is required, or of the date that the need for access becomes known to the Permittee, the Permittee shall notify DTSC in writing within 14 days thereafter regarding both efforts undertaken to obtain access and its failure to obtain such

agreements. In the event DTSC obtains access, the Permittee shall undertake approved work on such property. If there is any conflict between this permit condition on access and the access requirements in any agreement entered into between DTSC and the Permittee, this permit condition on access shall govern.

- 4 Nothing in Part VI of the Permit shall be construed to limit or otherwise affect the Permittee's liability and obligation to perform corrective action including corrective action beyond the facility boundary, notwithstanding the lack of access. DTSC may determine that additional on-site measures must be taken to address releases beyond the Facility boundary if access to off-site areas cannot be obtained.

TABLE 1 LISTING of RCRA FEDERAL HAZARDOUS WASTE CODES ACCEPTABLE at the FACILITY											
<u>RCRA Federal Hazardous Waste Codes</u>											
<i>Characteristic Hazardous Waste</i>											
D001 (Oxidizers only)											
D002	D003	D004	D005	D006	D007	D008	D009	D010	D011	D018	D019
D021	D022	D023	D024	D025	D026	D027	D028	D029	D033	D034	D035
D036	D038	D039	D040	D043							
<i>Listed Hazardous Waste from Non-Specific Sources</i>											
F001	F002	F003	F004	F005	F006	F007	F008	F009	F011	F012	F019
F037	F038	F039									
<i>Listed Hazardous Waste from Specific Sources</i>											
K048	K049	K050	K051	K052	K086						
<i>Chemical Listed Waste - Acute Hazardous Wastes</i>											
P010	P011	P012	P013	P021	P029	P030	P074	P098	P099	P104	P106
P121											
<i>Chemical Listed Waste - Toxic Wastes</i>											
U002	U008	U032	U044	U051	U052	U080	U112	U122	U123	U134	U135
U144	U145	U146	U151	U154	U159	U161	U162	U204	U209	U210	U220
U226	U227	U228	U239	U359							

TABLE 3	
LISTING of PROHIBITED WASTES for the FACILITY	
The Facility cannot accept wastes from any off-site generator for treatment, storage, consolidation, and/or transfer that meet the following conditions:	
1.	Explosives, as defined in the Code of Federal Regulations, title 49, section 173.50
2.	Flammable gases as defined by the Code of Federal Regulations, title 49, section 173.115.
3.	Flammable liquids as defined by the Code of Federal Regulations, title 49, section 173.120.
4.	Flammable solids as defined by the Code of Federal Regulations, title 49, section 173.124.
5.	Compressed gases, as defined in the Code of Federal Regulations, title 49, section 173.115.
6.	Wastes containing polychlorinated biphenyls (PCBs), with PCB concentrations greater than limits per the California Code of Regulations, title 22, section 66261.24(a)(2)(B), Table III.
7.	Wastes containing Organic Persistent and Bioaccumulative Toxic Substances (Pesticides) above the Soluble Threshold Limit Concentration and Total Threshold Limit Concentration limits listed in the California Code of Regulations, title 22, section 66261.24(a)(2)(B), Table III.
8.	Biohazards or infectious wastes, pursuant to the Code of Federal Regulations, title 49, section 173.134.
9.	Radioactive wastes above California Department of Public Health (CDPH) acceptable levels.
10.	Reactive wastes that spontaneously ignite upon exposure with water.
11.	Reactive wastes that spontaneously ignite upon exposure with air.

TABLE 4 LISTING of RCRA FEDERAL HAZARDOUS WASTE CODES ACCEPTABLE for INDICATED TREATMENT UNITS							
RCRA Waste Code	RCRA Waste Code Description	HWMU 14, 15, 16, 17, 18, 19, 20, 21	HWMU 2, 3, 4, 23	HWMU 24, 25, 26, 27	HWMU 28	HWMU 5, 29, 30	HWMU 31
D001	Ignitable Waste (Oxidizers Only)	X		X	X	X	X
D002	Corrosive Waste	X	X	X	X	X	X
D003	Reactive Waste	X		X	X	X	X
D004	Arsenic	X	X	X	X	X	X
D005	Barium	X	X	X	X	X	X
D006	Cadmium	X	X	X	X	X	X
D007	Chromium	X	X	X	X	X	X
D008	Lead	X	X	X	X	X	X
D009	Mercury	X	X	X	X	X	X
D010	Selenium	X	X	X	X	X	X
D011	Silver	X	X	X	X	X	X
D018	Benzene	X	X	X	X	X	X
D019	Carbon Tetrachloride	X	X	X	X	X	X
D021	Chlorobenzene	X	X	X	X	X	X
D022	Chloroform	X	X	X	X	X	X
D023	o-Cresol	X	X	X	X	X	X
D024	m-Cresol	X	X	X	X	X	X
D025	p-Cresol	X	X	X	X	X	X
D026	Cresol	X	X	X	X	X	X
D027	1,4-Dichlorobenzene	X	X	X	X	X	X
D028	1,2-Dichloroethane	X	X	X	X	X	X
D029	1,1-Dichloroethylene	X	X	X	X	X	X
D033	Hexachlorobutadiene	X	X	X	X	X	X
D034	Hexachloroethane	X	X	X	X	X	X
D035	Methyl ethyl ketone	X	X	X	X	X	X
D036	Nitrobenzene	X	X	X	X	X	X
D038	Pyridine	X	X	X	X	X	X
D039	Tetrachloroethylene	X	X	X	X	X	X
D040	Trichloroethylene	X	X	X	X	X	X
D043	Vinyl chloride	X	X	X	X	X	X
F001	The following spent halogenated solvents used in degreasing: Tetrachloroethylene, trichloroethylene, methylene chloride, 1,1,1-trichloroethane, carbon tetrachloride and chlorinated fluorocarbons; all spent solvent mixtures/blends used in degreasing containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.		X	X	X	X	X

TABLE 4 LISTING of RCRA FEDERAL HAZARDOUS WASTE CODES ACCEPTABLE for INDICATED TREATMENT UNITS							
RCRA Waste Code	RCRA Waste Code Description	HWMU 14, 15, 16, 17, 18, 19, 20, 21	HWMU 2, 3, 4, 23	HWMU 24, 25, 26, 27	HWMU 28	HWMU 5, 29, 30	HWMU 31
F002	The following spent halogenated solvents: Tetrachloroethylene, methylene chloride, trichloroethylene 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, ortho-dichlorobenzene, trichlorofluoromethane, and 1,1,2, trichloroethane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above halogenated solvents or those solvents listed in F001, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.		X	X	X	X	X
F003	The following spent non-halogenated solvents: Xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, methyl isobutyl ketone, n-butyl alcohol, cyclohexanone, and methanol; all spent solvent mixtures/blends containing, before use, only the above spent nonhalogenated solvents; and all spent solvent mixtures/blends containing, before use, one or more of the above nonhalogenated solvents, and a total of ten percent or more (by volume) of one or more of those solvents listed in F001, F002, F004, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.		X	X	X	X	X

TABLE 4 LISTING of RCRA FEDERAL HAZARDOUS WASTE CODES ACCEPTABLE for INDICATED TREATMENT UNITS							
RCRA Waste Code	RCRA Waste Code Description	HWMU 14, 15, 16, 17, 18, 19, 20, 21	HWMU 2, 3, 4, 23	HWMU 24, 25, 26, 27	HWMU 28	HWMU 5, 29, 30	HWMU 31
F004	The following spent non-halogenated solvents: cresols, cresylic acid, and nitrobenzene; and still bottoms from the recovery of these solvents; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above nonhalogenated solvents or those solvents listed in F001, F002, and F005; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.		X	X	X	X	X
F005	The following spent non-halogenated solvents: toluene, methyl ethyl ketone, carbon disulfide, isobutanol, pyridine, benzene, 2-ethoxyethanol, and 2-nitropropane; all spent solvent mixtures/blends containing, before use, a total of ten percent or more (by volume) of one or more of the above nonhalogenated solvents or those solvents listed in F001, F002, and F004; and still bottoms from the recovery of these spent solvents and spent solvent mixtures.		X	X	X	X	X
F006	Wastewater treatment sludge from electroplating operations except from the following processes: (1) sulfuric acid anodizing of aluminum; (2) tin plating on carbon steel; (3) zinc plating (segregated basis) on carbon steel; (4) aluminum or zinc-aluminum plating on carbon steel; (5) cleaning/stripping associated with tin, zinc, and aluminum plating on carbon steel; and (6) chemical etching and milling of aluminum.	X	X	X	X	X	X
F007	Spent cyanide plating bath solutions from electroplating operations.	X		X	X	X	X
F008	Plating bath residues from the bottom of plating baths from electroplating operations in which cyanides are used in the process.	X		X	X	X	X

TABLE 4 LISTING of RCRA FEDERAL HAZARDOUS WASTE CODES ACCEPTABLE for INDICATED TREATMENT UNITS							
RCRA Waste Code	RCRA Waste Code Description	HWMU 14, 15, 16, 17, 18, 19, 20, 21	HWMU 2, 3, 4, 23	HWMU 24, 25, 26, 27	HWMU 28	HWMU 5, 29, 30	HWMU 31
F009	Spent stripping and cleaning bath solutions from electroplating operations in which cyanides are used in the process.	X		X	X	X	X
F011	Spent cyanide solutions from slat bath pot cleaning from metal heat treating operations.	X		X	X	X	X
F012	Quenching wastewater treatment sludge from metal heat treating operations in which cyanides are used in the process.	X		X	X	X	X
F019	Wastewater treatment sludge from the chemical conversion coating of aluminum except from zirconium phosphating in aluminum can washing when such phosphating is an exclusive conversion coating process.	X	X	X	X	X	X
F037	<p>Petroleum refinery primary oil/water/solids separation sludge – Any sludge generated from the gravitational separation of oil/water/solids during the storage or treatment of process wastewaters and oily cooling wastewaters from petroleum refineries. Such sludge include, but are not limited to, those generated in oil/water/solids separators; tanks and impoundments; ditches and other conveyances; sumps; and storm water units receiving dry weather flow. Sludges generated in storm water units that do not receive dry weather flow, sludge generated in aggressive biological treatment units as defined in Section 261.31(b)(2) (including sludge generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units), and K051 wastes are exempted from this listing.</p>	X	X	X	X	X	X

TABLE 4 LISTING of RCRA FEDERAL HAZARDOUS WASTE CODES ACCEPTABLE for INDICATED TREATMENT UNITS							
RCRA Waste Code	RCRA Waste Code Description	HWMU 14, 15, 16, 17, 18, 19, 20, 21	HWMU 2, 3, 4, 23	HWMU 24, 25, 26, 27	HWMU 28	HWMU 5, 29, 30	HWMU 31
F038	Petroleum refinery secondary (emulsified) oil/water/solids separation sludge – Any sludge and/or float generated from the physical and/or chemical separation of oil/water/solids in process wastewaters and oily cooling wastewaters from petroleum refineries. Such wastes include, but are not limited to, all sludge and floats generated in induced air flotation units, tanks and impoundments, and all sludge generated in dissolved air flotation units. Sludges generated in stormwater units that do not receive dry weather flow, sludge generated in aggressive biological treatment units as defined in Section 261.31(b)(2) (including sludge generated in one or more additional units after wastewaters have been treated in aggressive biological treatment units), and F037, K048, and K051 wastes are exempted from this listing.	X	X	X	X	X	X
F039	Leachate resulting from the treatment, storage, or disposal of wastes classified by more than one waste code under Subpart D, or from a mixture of wastes classified under Subparts C and D of this part. (Leachate resulting from the management of one or more of the following EPA Hazardous Wastes and no other hazardous wastes retains its hazardous waste code(s): F020, F021, F022, F023, F026, F027, and/or F028.)		X	X	X	X	X
K048	Dissolved air flotation float from the petroleum refining industry.		X	X		X	X
K049	Slop oil emulsion solids from the petroleum refining industry.		X	X		X	X
K050	Heat exchanger bundle cleaning sludge from the petroleum refining industry.		X	X		X	X
K051	API separator sludge from the petroleum refining industry.		X	X		X	X
K052	Tank bottoms (leaded) from the petroleum refining industry.	X	X	X	X	X	X

TABLE 4 LISTING of RCRA FEDERAL HAZARDOUS WASTE CODES ACCEPTABLE for INDICATED TREATMENT UNITS							
RCRA Waste Code	RCRA Waste Code Description	HWMU 14, 15, 16, 17, 18, 19, 20, 21	HWMU 2, 3, 4, 23	HWMU 24, 25, 26, 27	HWMU 28	HWMU 5, 29, 30	HWMU 31
K086	Solvent washes and sludge, caustic washes and sludge, or water washes and sludge from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead.	X	X	X	X	X	X
P010	Arsenic acid H ₃ AsO ₄	X		X	X	X	X
P011	Arsenic pentoxide	X		X	X	X	X
P012	Arsenic oxide As ₂ O ₃	X		X	X	X	X
P013	Barium cyanide	X		X	X	X	X
P021	Calcium cyanide	X		X	X	X	X
P029	Copper cyanide	X		X	X	X	X
P030	Cyanides (soluble cyanide salts), not otherwise specified	X		X	X	X	X
P074	Nickel cyanide	X		X	X	X	X
P098	Potassium cyanide	X		X	X	X	X
P099	Potassium silver cyanide	X		X	X	X	X
P104	Silver cyanide	X		X	X	X	X
P106	Sodium cyanide	X		X	X	X	X
P121	Zinc cyanide	X		X	X	X	X
U002	Acetone		X	X	X	X	X
U008	Acrylic acid			X		X	X
U032	Calcium chromate	X		X	X	X	X
U044	Chloroform		X	X	X	X	X
U051	Creosote		X	X		X	X
U052	Cresol (Cresylic acid)		X	X		X	X
U080	Methylene chloride		X	X	X	X	X
U112	Ethyl acetate		X	X	X	X	X
U122	Formaldehyde		X	X	X	X	X
U123	Formic acid			X		X	X
U134	Hydrofluoric acid	X		X		X	X
U135	Hydrogen sulfide H ₂ S	X		X	X	X	X
U144	Lead acetate	X		X		X	X
U145	Lead phosphate	X		X		X	X
U146	Lead subacetate	X		X		X	X
U151	Mercury	X		X	X	X	X
U154	Methanol		X	X	X	X	X
U159	Methyl ethyl ketone		X	X	X	X	X
U161	Methyl isobutyl ketone		X	X	X	X	X
U162	Methyl methacrylate		X	X	X	X	X
U204	Selenious acid	X		X		X	X
U209	Ethane, 1,1,2,2-tetrachloro-		X	X	X	X	X
U210	Tetrachloroethylene		X	X	X	X	X
U220	Toluene		X	X	X	X	X
U226	Methyl chloroform		X	X	X	X	X
U227	1,1,2-Trichloroethane		X	X	X	X	X
U228	Trichloroethylene		X	X	X	X	X

TABLE 4 LISTING of RCRA FEDERAL HAZARDOUS WASTE CODES ACCEPTABLE for INDICATED TREATMENT UNITS							
RCRA Waste Code	RCRA Waste Code Description	HWMU 14, 15, 16, 17, 18, 19, 20, 21	HWMU 2, 3, 4, 23	HWMU 24, 25, 26, 27	HWMU 28	HWMU 5, 29, 30	HWMU 31
U239	Xylene		X	X	X	X	X
U359	Ethylene glycol monoethyl ether		X	X	X	X	X

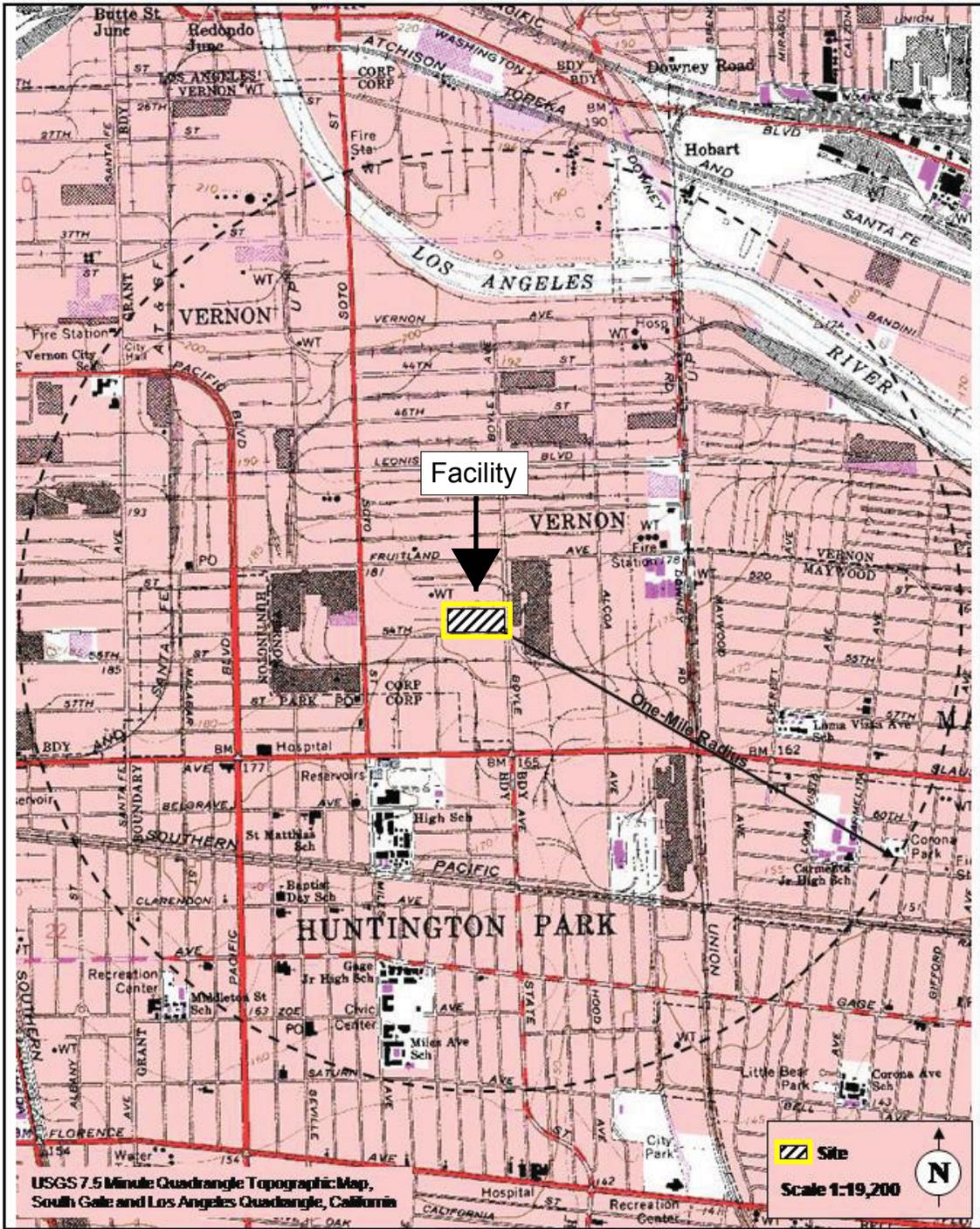
Notes: Referenced from Appendix C in the Part B Application.
 X – Acceptable for treatment.

TABLE 5 LISTING of CALIFORNIA STATE HAZARDOUS WASTE CODES ACCEPTABLE for INDICATED TREATMENT UNITS							
California Hazardous Waste Code	California Hazardous Waste Code Description	HWMU 14, 15, 16, 17, 18, 19, 20, 21	HWMU 2, 3, 4, 23	HWMU 24, 25, 26, 27	HWMU 28	HWMU 5, 29, 30	HWMU 31
121	Alkaline Solution pH ≤ 12.5 w/metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, molybdenum, nickel, selenium, silver, thallium, vanadium, and zinc)	X	X	X	X	X	X
122	Alkaline solution without metals (pH>12.5)	X	X	X	X	X	X
123	Unspecified alkaline solution	X	X	X	X	X	X
131	Aqueous solution (2<pH <12.5) containing reactive anions (azide, bromate, chlorate, cyanide, fluoride, hypochlorite, nitrite, perchlorate, and sulfide anions)	X	X	X	X	X	X
132	Aqueous solution with metals (restricted levels and see waste code 121 for a list of metals)	X	X	X	X	X	X
133	Aqueous solution with 10% or more total organic residues						
134	Aqueous solution with less than 10% or more total organic residues	X	X	X	X	X	X
135	Unspecified aqueous solution	X	X	X	X	X	X
141	Off-specification, aged, or surplus inorganics	X		X	X	X	X
162	Other spent catalyst						
171	Metal sludge (see 121)	X		X		X	X
172	Metal dust (see 121) and machining waste						
181	Other inorganic solid waste						

TABLE 5 LISTING of CALIFORNIA STATE HAZARDOUS WASTE CODES ACCEPTABLE for INDICATED TREATMENT UNITS							
California Hazardous Waste Code	California Hazardous Waste Code Description	HWMU 14, 15, 16, 17, 18, 19, 20, 21	HWMU 2, 3, 4, 23	HWMU 24, 25, 26, 27	HWMU 28	HWMU 5, 29, 30	HWMU 31
214	Unspecified solvent mixture		X	X		X	X
221	Waste oil and mixed oil		X				
222	Oil/water separation sludge	X	X	X		X	X
223	Unspecified oil-containing waste	X	X	X		X	X
241	Tank bottom waste		X	X		X	X
271	Organic monomer waste (includes unreacted resins)						
272	Polymeric resin waste						
281	Adhesives	X	X	X	X	X	X
291	Latex waste	X	X	X	X	X	X
311	Pharmaceutical waste	X	X	X	X	X	X
331	Off-specification, aged, or surplus organics		X	X		X	X
341	Organic liquids (nonsolvents) w/halogens		X	X		X	X
342	Organic liquids w/ metals	X	X	X		X	X
343	Unspecified organic liquid mixture	X	X	X		X	X
351	Organic solids with halogens						
352	Other organic solids						
411	Alum and gypsum sludge	X		X		X	X
421	Lime sludge	X		X		X	X
431	Phosphate sludge	X		X		X	X
461	Paint sludge						
471	Paper sludge/ pulp	X		X		X	X
491	Unspecified sludge waste	X		X		X	X
512	Other empty containers 30 gal or more						
513	Empty containers less than 30 gal						
521	Drilling mud	X	X	X	X	X	X
541	Photochemicals/ photoprocessing waste	X	X	X	X	X	X
551	Laboratory waste chemicals	X	X	X	X	X	X

TABLE 5 LISTING of CALIFORNIA STATE HAZARDOUS WASTE CODES ACCEPTABLE for INDICATED TREATMENT UNITS							
California Hazardous Waste Code	California Hazardous Waste Code Description	HWMU 14, 15, 16, 17, 18, 19, 20, 21	HWMU 2, 3, 4, 23	HWMU 24, 25, 26, 27	HWMU 28	HWMU 5, 29, 30	HWMU 31
561	Detergent and soap	X		X		X	X
581	Gas scrubber waste	X	X	X	X	X	X
591	Baghouse waste	X		X		X	X
611	Contaminated soil from site clean-ups						
612	Household wastes	X	X	X	X	X	X
711	Liquids with cyanides ≥ 1000 mg/l	X		X	X	X	X
721	Liquids with arsenic ≥ 500 mg/l	X		X	X	X	X
722	Liquids with cadmium ≥ 100 mg/l	X		X	X	X	X
723	Liquids with chromium (VI) ≥ 500 mg/l	X		X	X	X	X
724	Liquids with lead \geq 500 mg/l	X		X	X	X	X
725	Liquids with mercury ≥ 20 mg/l	X		X	X	X	X
726	Liquids with nickel \geq 134 mg/l	X		X	X	X	X
727	Liquids with selenium ≥ 100 mg/l	X	X	X	X	X	X
728	Liquids with thallium ≥ 130 mg/l	X	X	X	X	X	X
741	Liquids w/ halogenated organic compounds ≥ 1000 mg/l	X	X	X		X	X
751	Solids or sludge w/ halogenated organic compounds ≥ 1000 mg/l						
791	Liquids w/ pH ≤ 2	X	X	X	X	X	X
792	Liquids w/ pH ≤ 2 with metals	X	X	X	X	X	X

Notes: Referenced from Appendix C in the Part B Application.
 X – Acceptable for treatment.

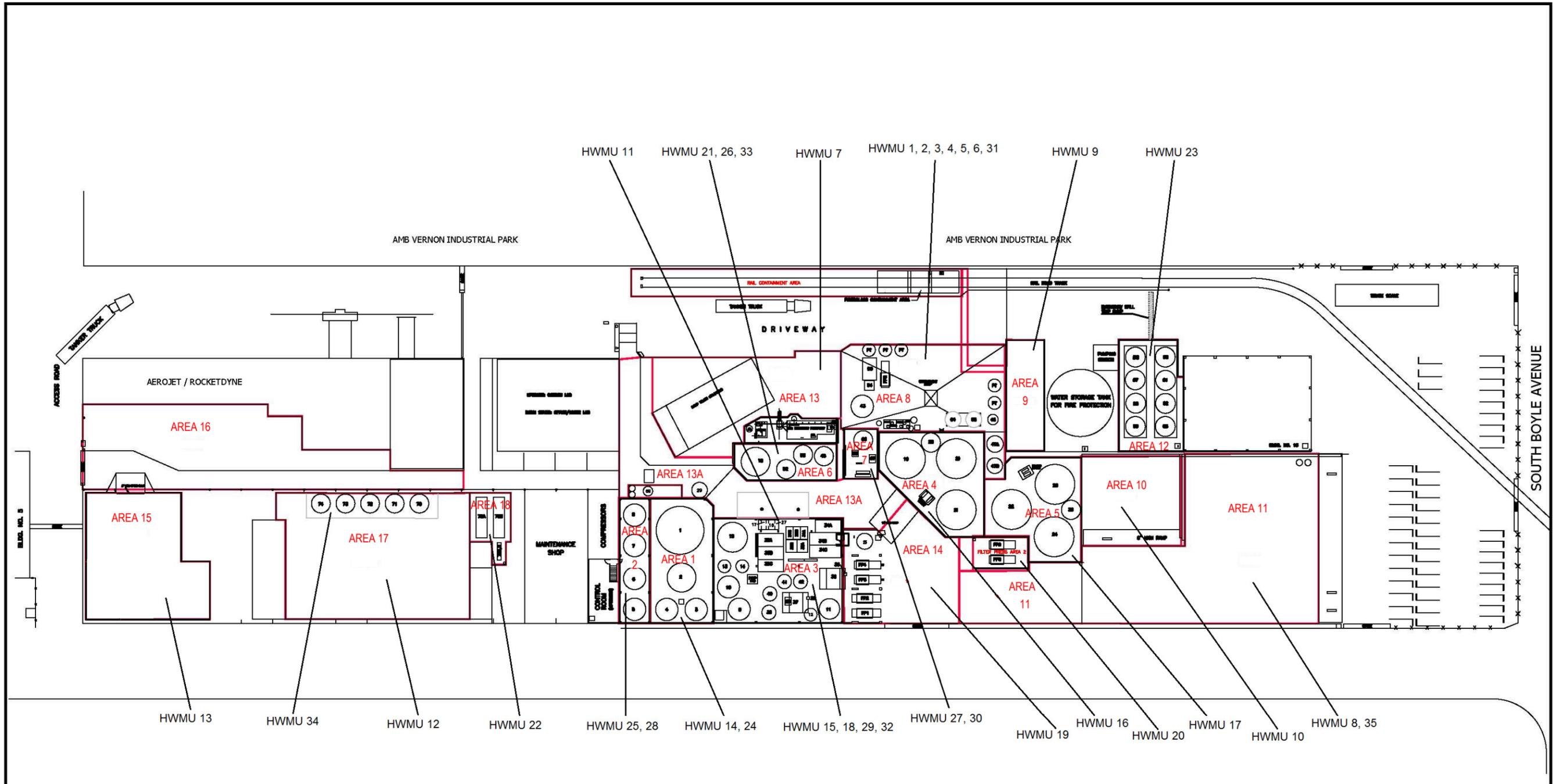


GENERAL FACILITY LOCATION MAP

EVOQUA WATER TECHNOLOGIES, LLC
VERNON, CALIFORNIA

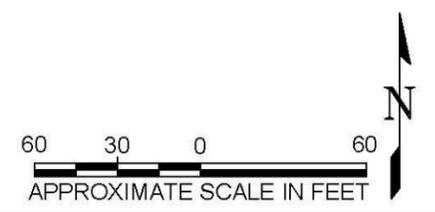
FIGURE

1



LEGEND

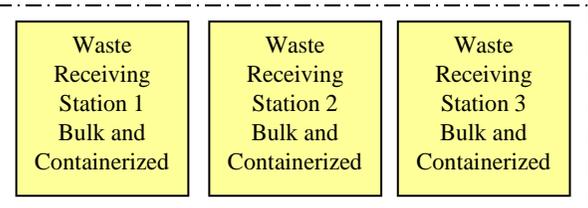
- AREA 1 CONTAINMENT AREA NUMBER
- CONTAINMENT AREA
- ▨ CONTAINMENT SUMP
- CONTAINMENT TRENCHES
- HWMU HAZARDOUS WASTE MANAGEMENT UNIT



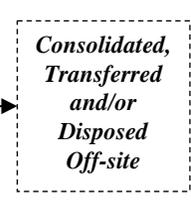
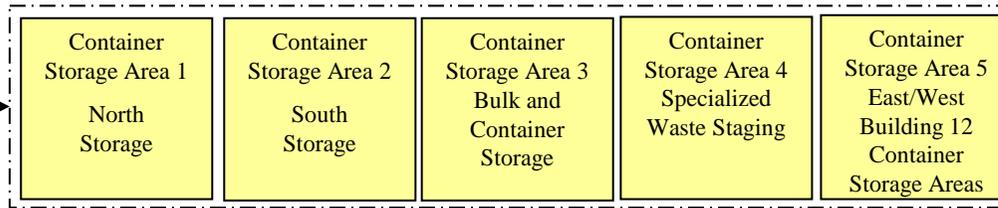
<p>HAZARDOUS WASTE MANAGEMENT UNITS</p> <p>EVOQUA WATER TECHNOLOGIES 5375 SOUTH BOYLE AVENUE VERNON, CALIFORNIA</p>	<p>FIGURE 2</p>
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Figure 3. Summary of Facility Hazardous Waste Management Areas

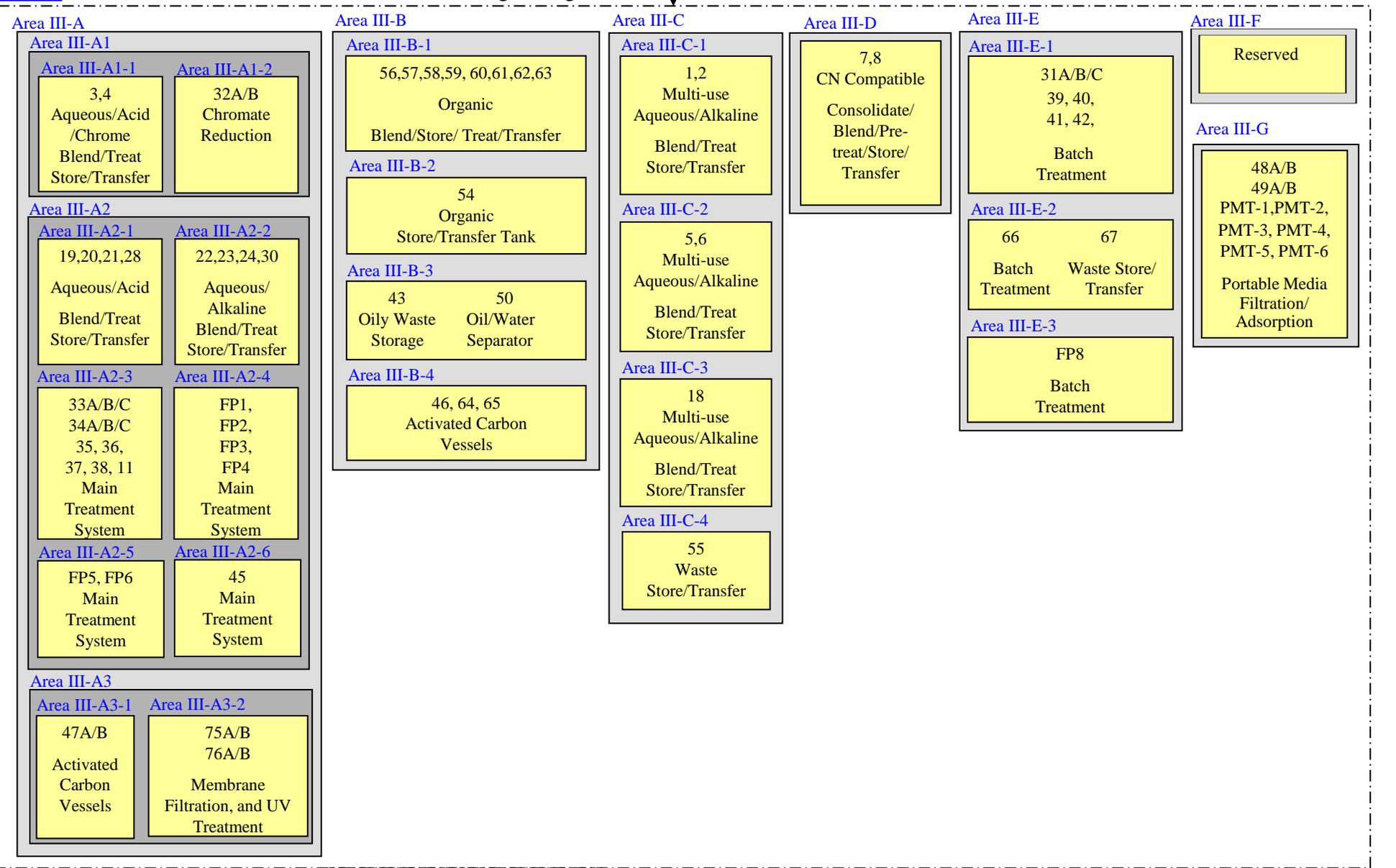
Area I: Waste Receiving and Shipping



Area II: Containerized Waste Storage and Management



Area III: Bulk Waste Pre-Treatment/Treatment/Polishing/Storage/Transfer



- Area III Sub-Areas**
- III-A: Inorganics/Oils Treatment/Storage/Transfer
 - III-A1: Acid/Cr+6 Pre-Treatment/Storage/Transfer
 - III-A2: Corrosives Treatment/Storage/Transfer
 - III-A3: Inorganic Waste Polishing
 - III-B: Organics/Oils Treatment/Storage/Transfer
 - III-B1: Organics Treatment/Storage/Transfer
 - III-B2: Organics Storage/Transfer
 - III-B3: Oil/Water Separation
 - III-B4: Organic Waste Polishing
 - III-C: Multi-Use and Transfer Tanks
 - III-D: Cyanide Pre-Treatment/Storage/Transfer
 - III-E: Batch Treatment
 - III-F: Reserved
 - III-G: Portable Media Filtration/Adsorption

Area IV: Discharge

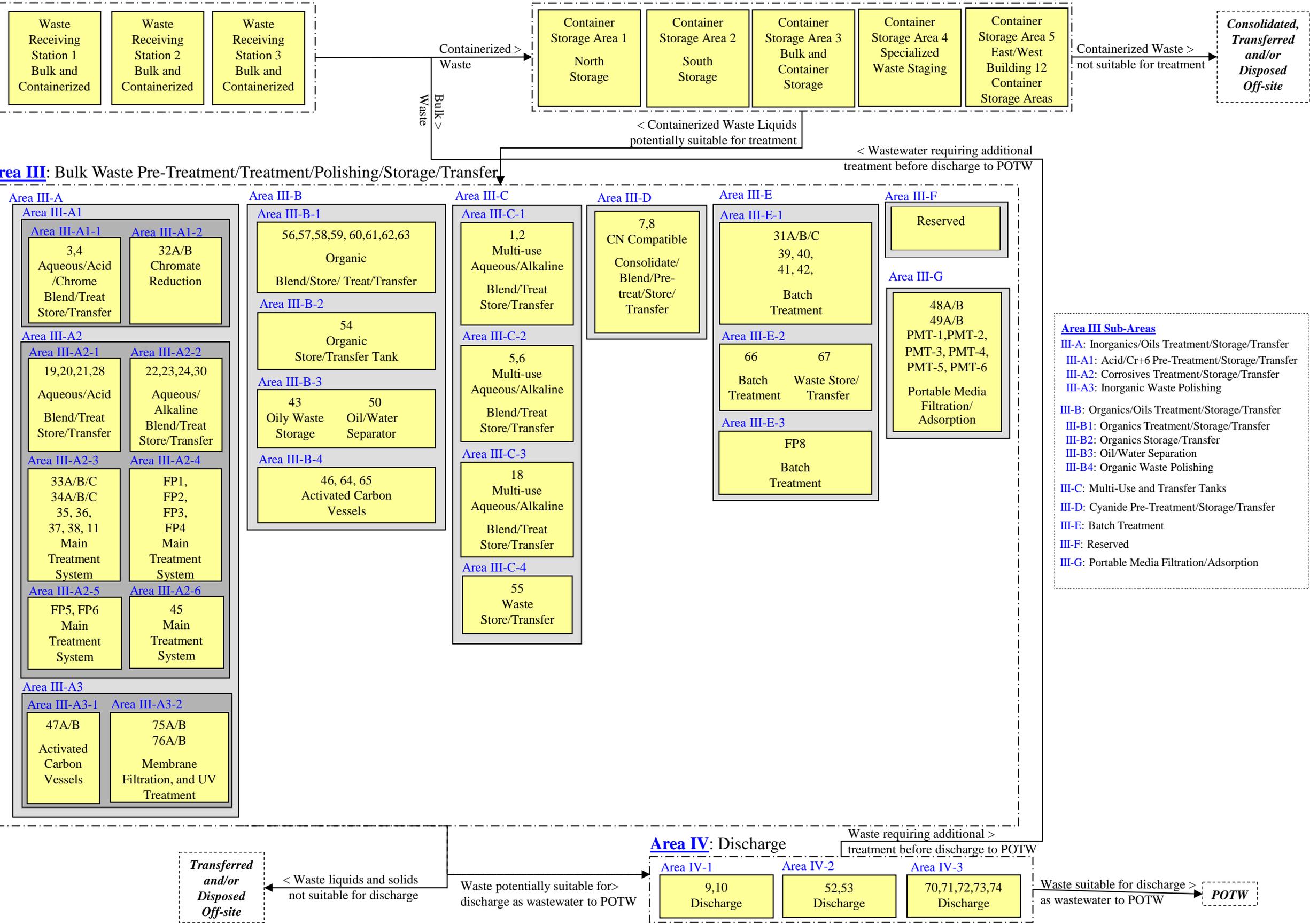
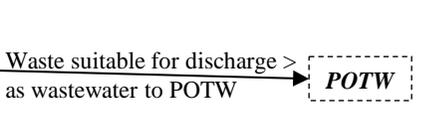
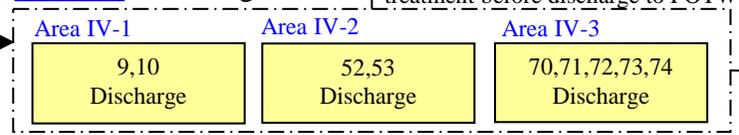


FIGURE 4
HWMU 1, 2, 3, 4, 5, 6, 31

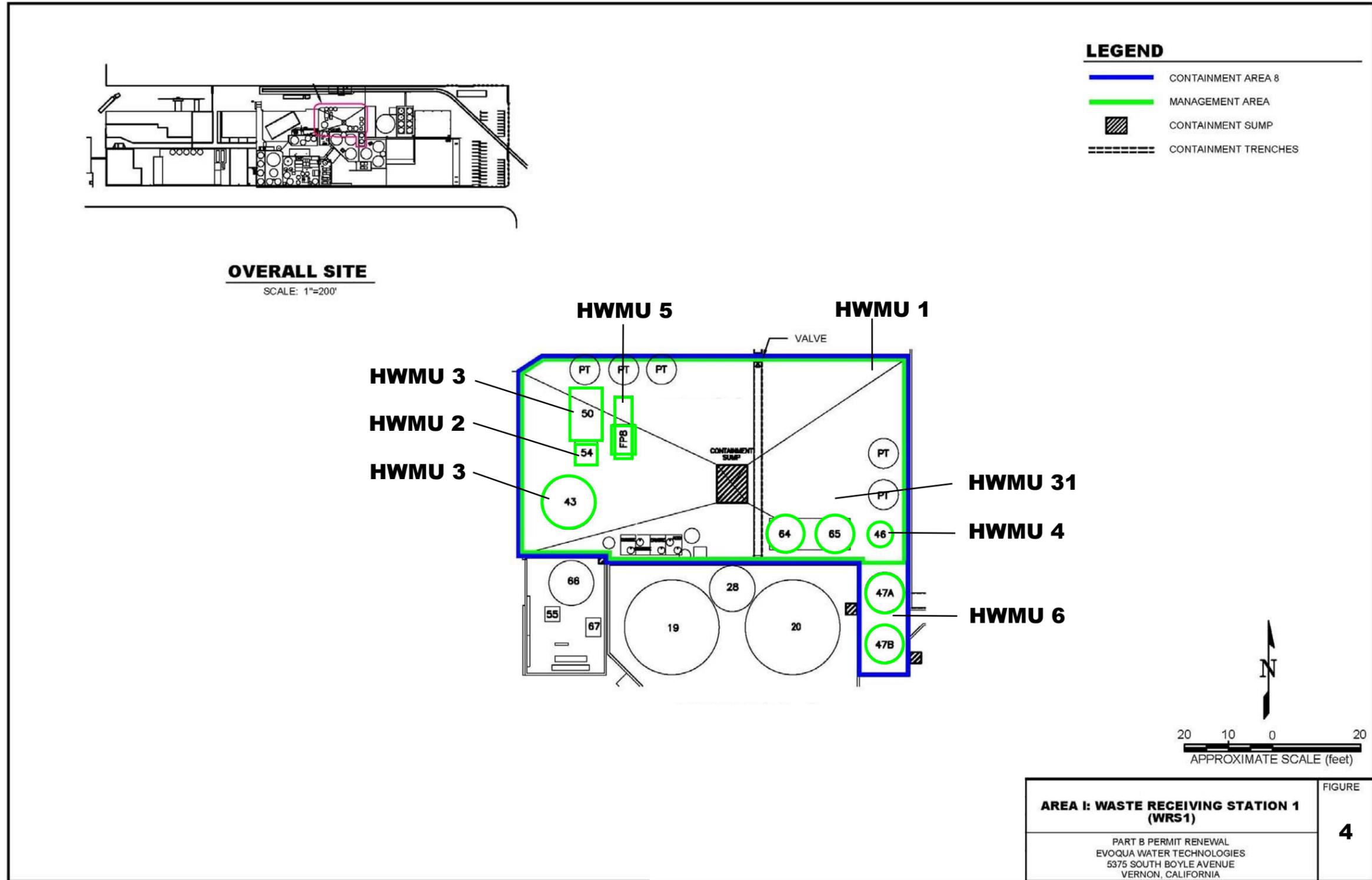


FIGURE 5
HWMU 7

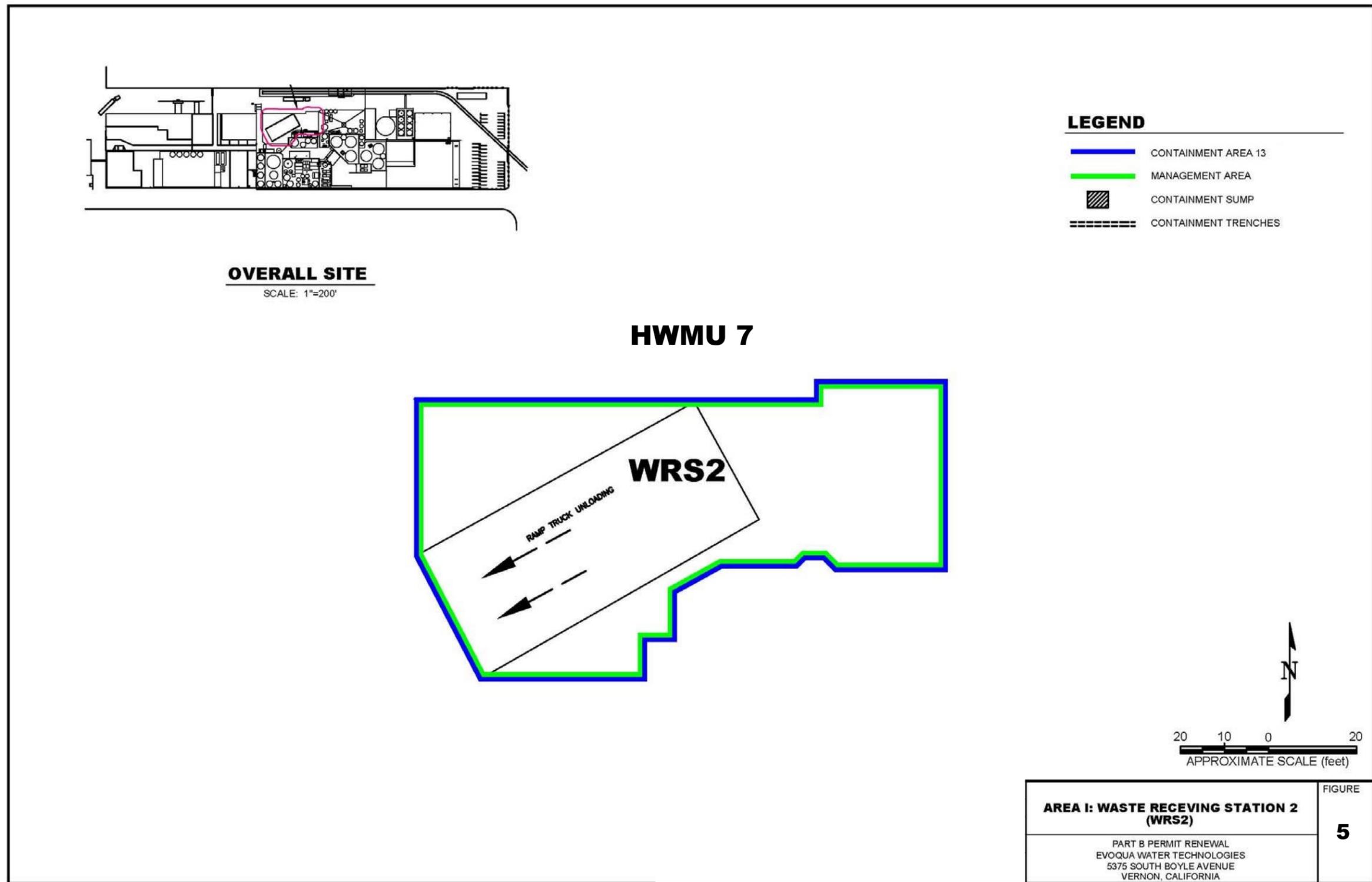


FIGURE 6
HWMU 8, 35

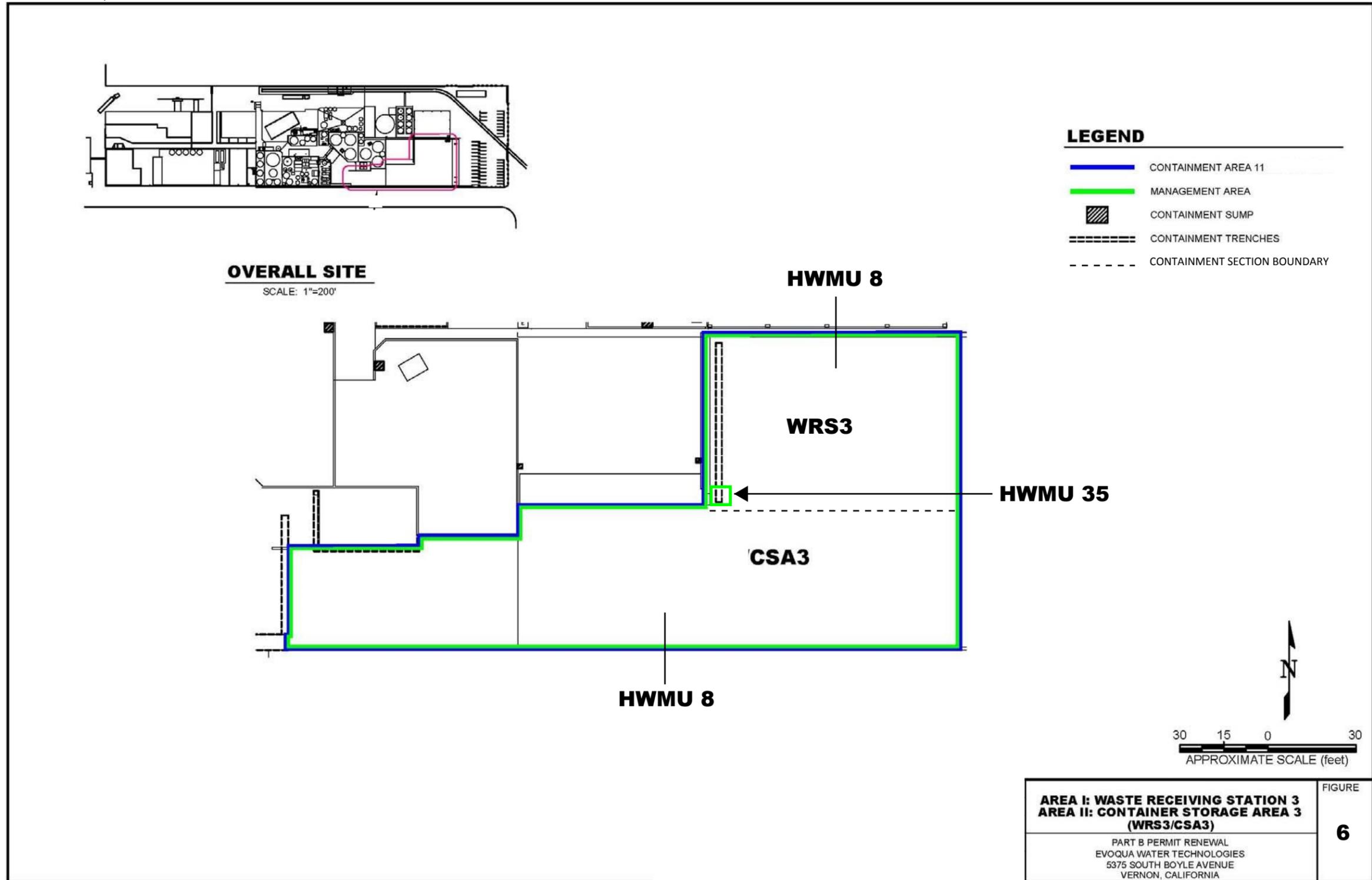


FIGURE 7
HWMU 9

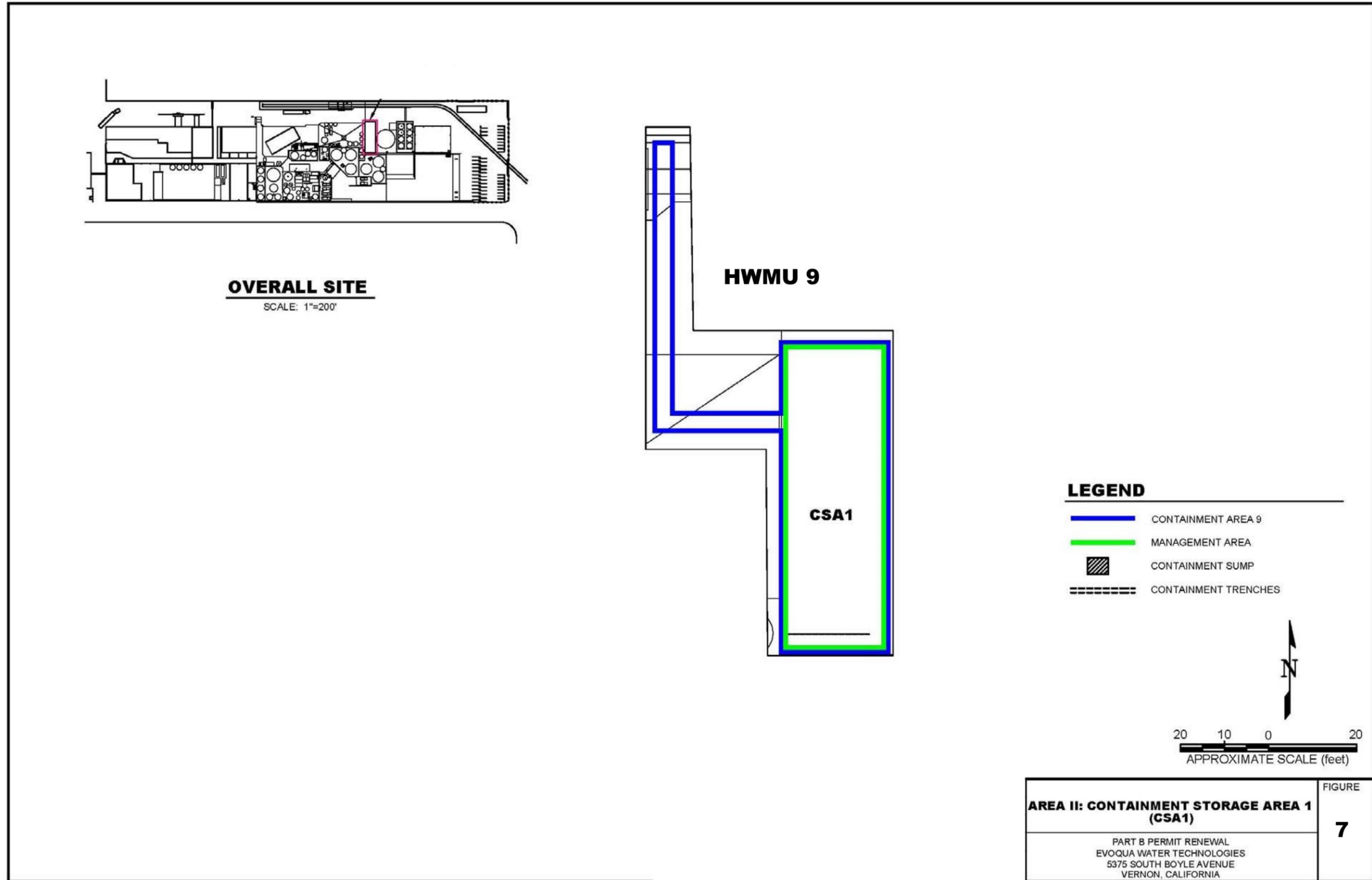
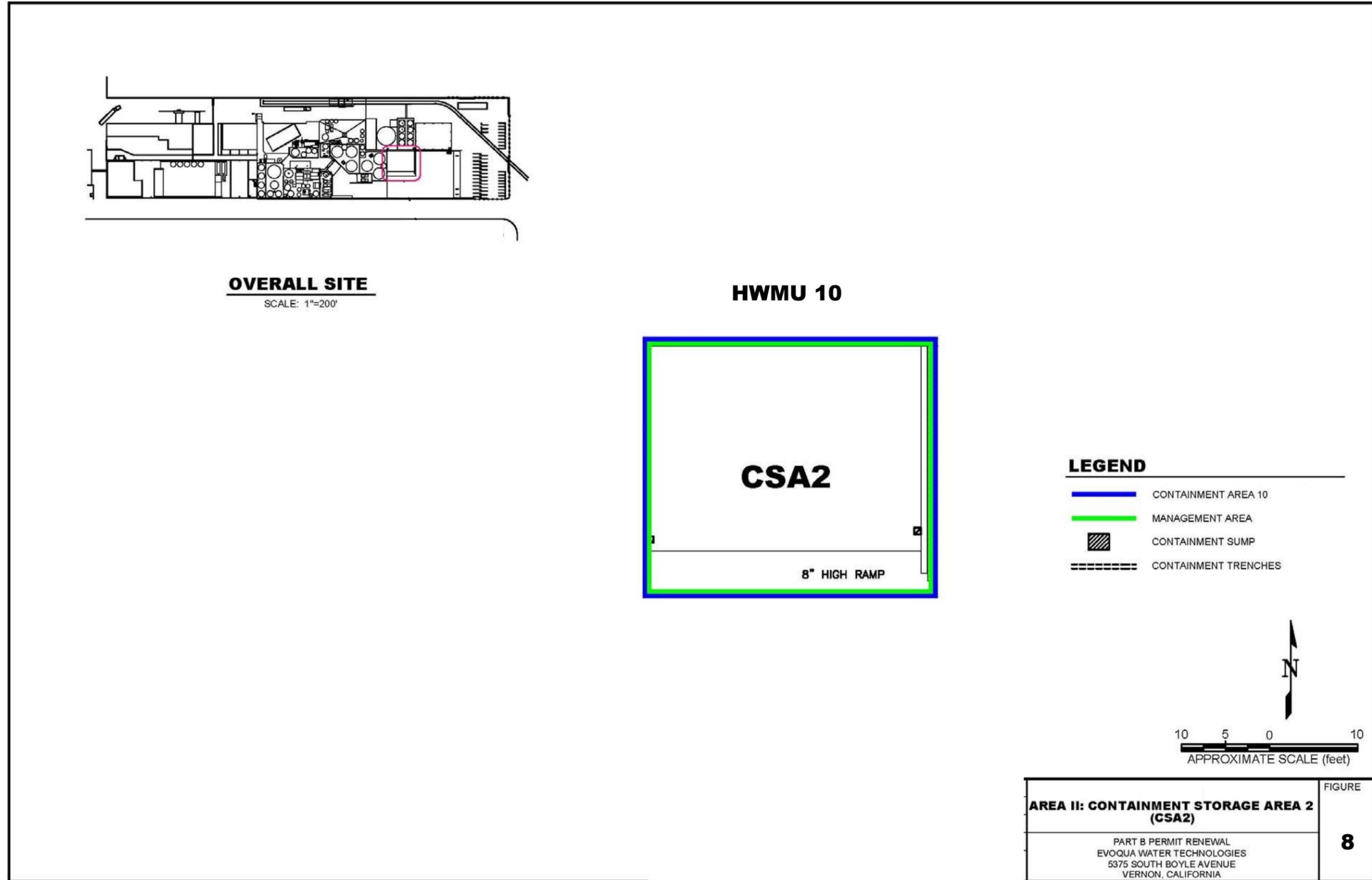


FIGURE 8
HWMU 10



AREA II: CONTAINMENT STORAGE AREA 2 (CSA2)

PART B PERMIT RENEWAL
EVOQUA WATER TECHNOLOGIES
5375 SOUTH BOYLE AVENUE
VERNON, CALIFORNIA

FIGURE
8

FIGURE 9
HWMU 11

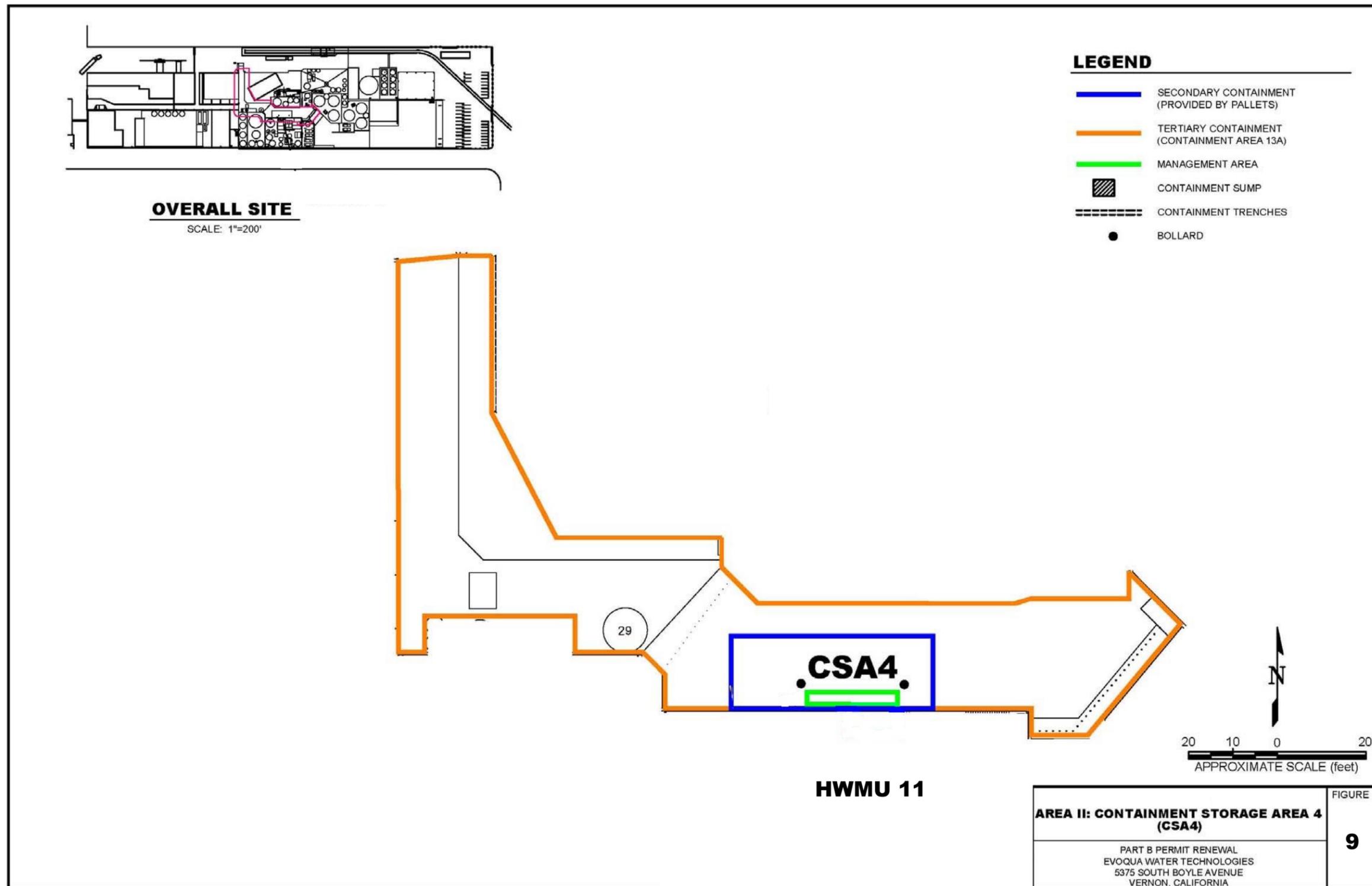


FIGURE 10
HWMU 12, 34

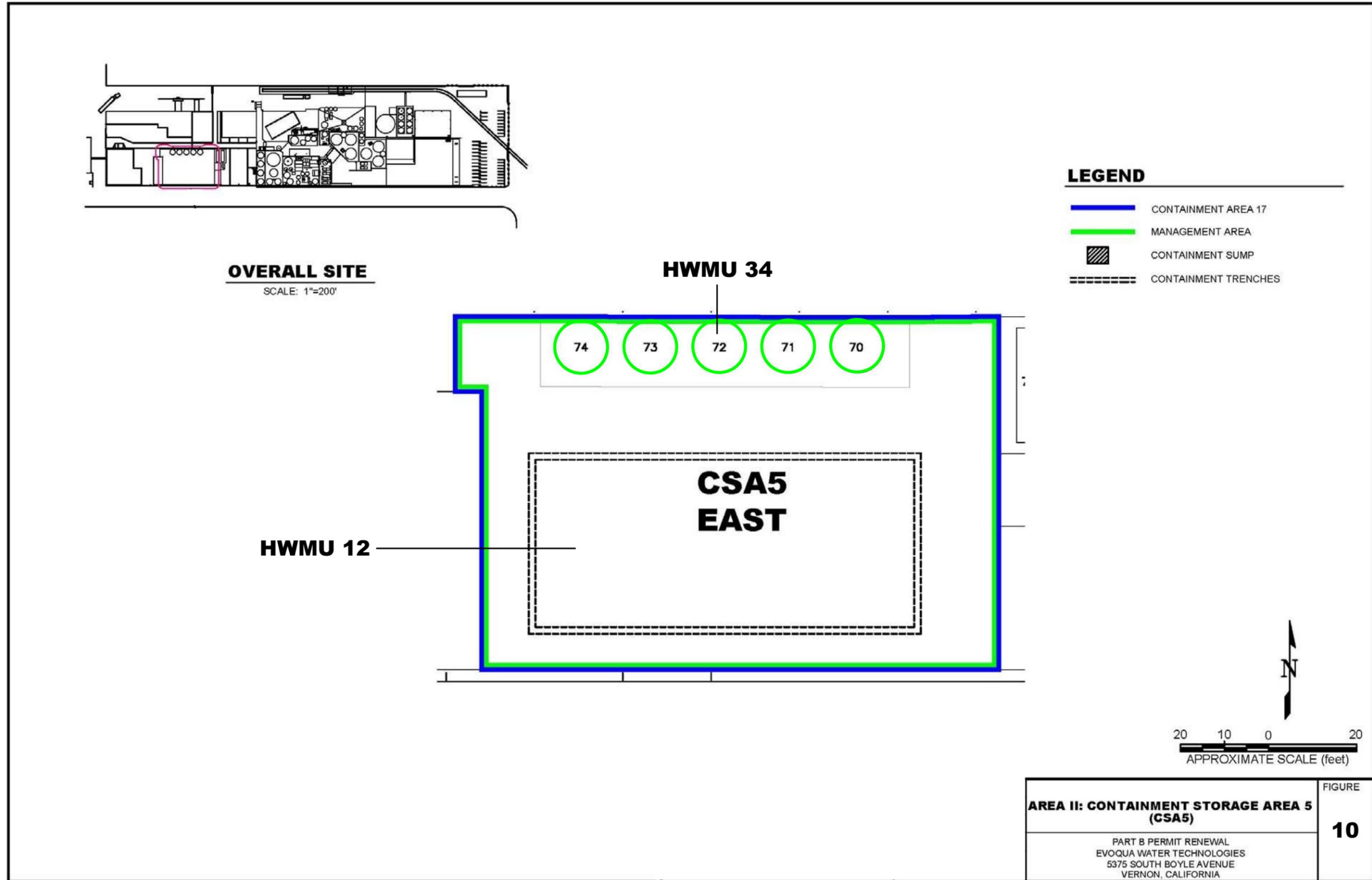


FIGURE 11
HWMU 13

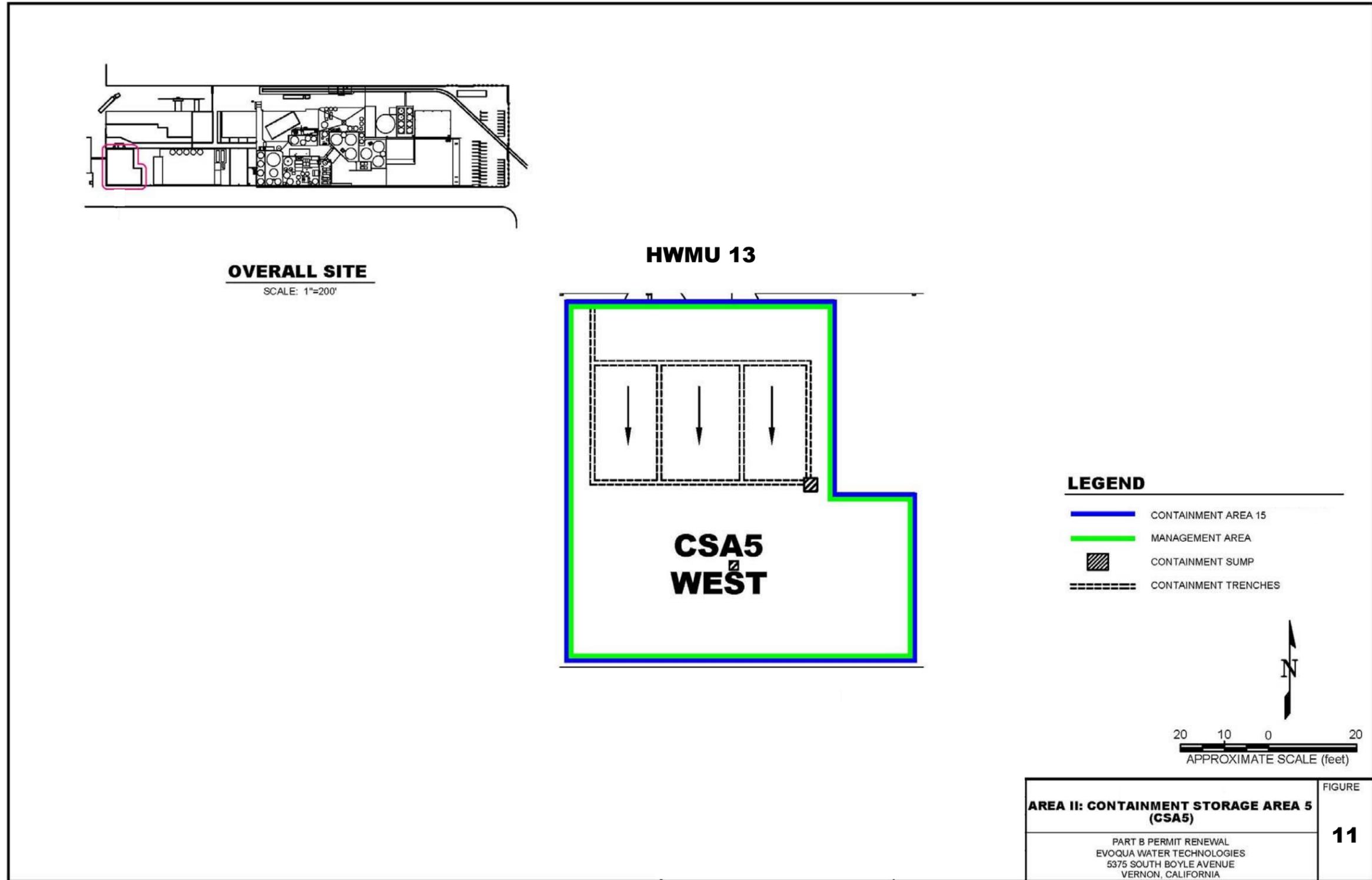


FIGURE 12
HWMU 6, 14, 15, 16, 17, 18, 19, 20, 21, 22

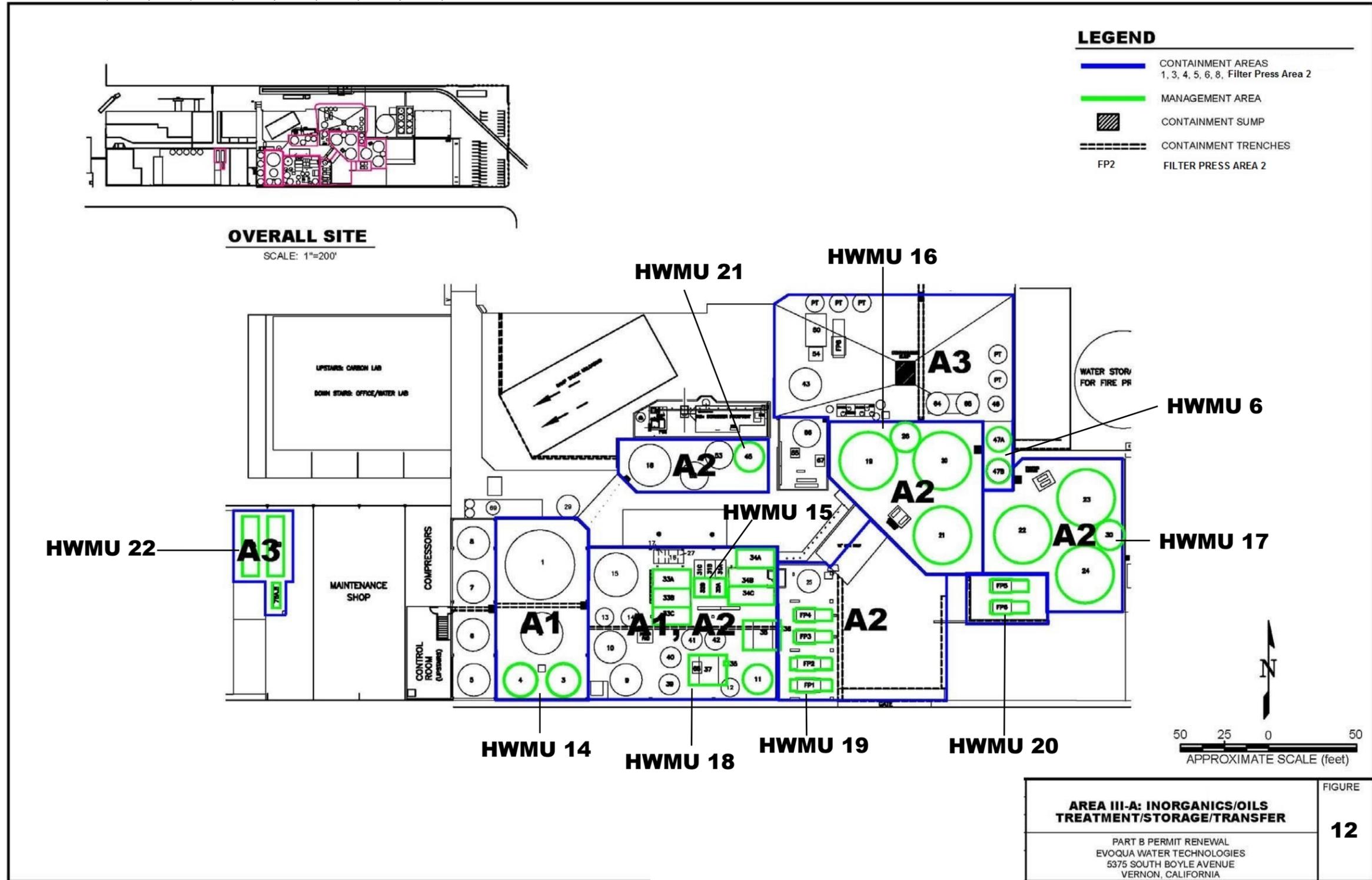


FIGURE 13
HWMU 23

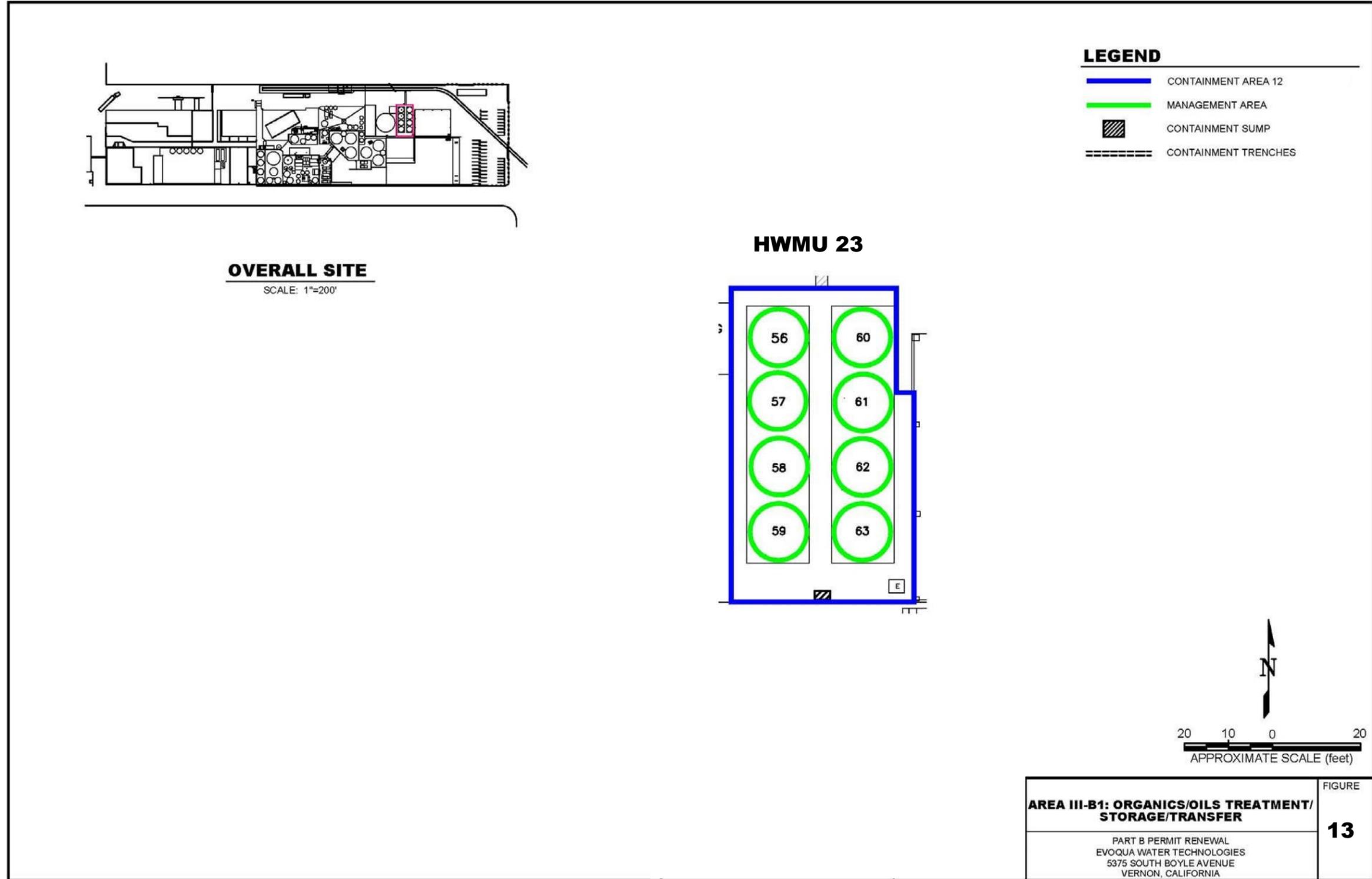


FIGURE 14
HWMU 24, 25, 26, 27

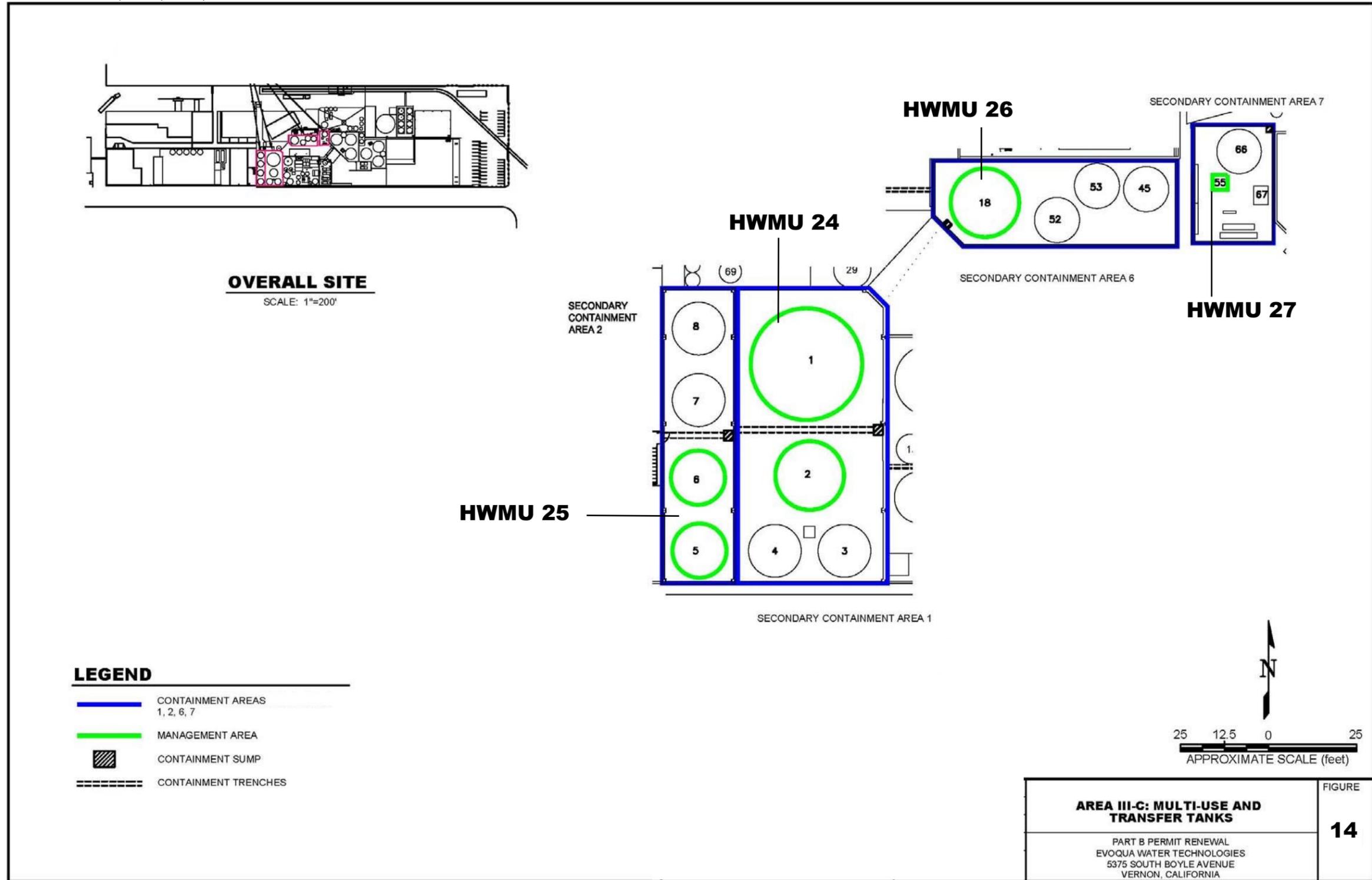


FIGURE 15
HWMU 28

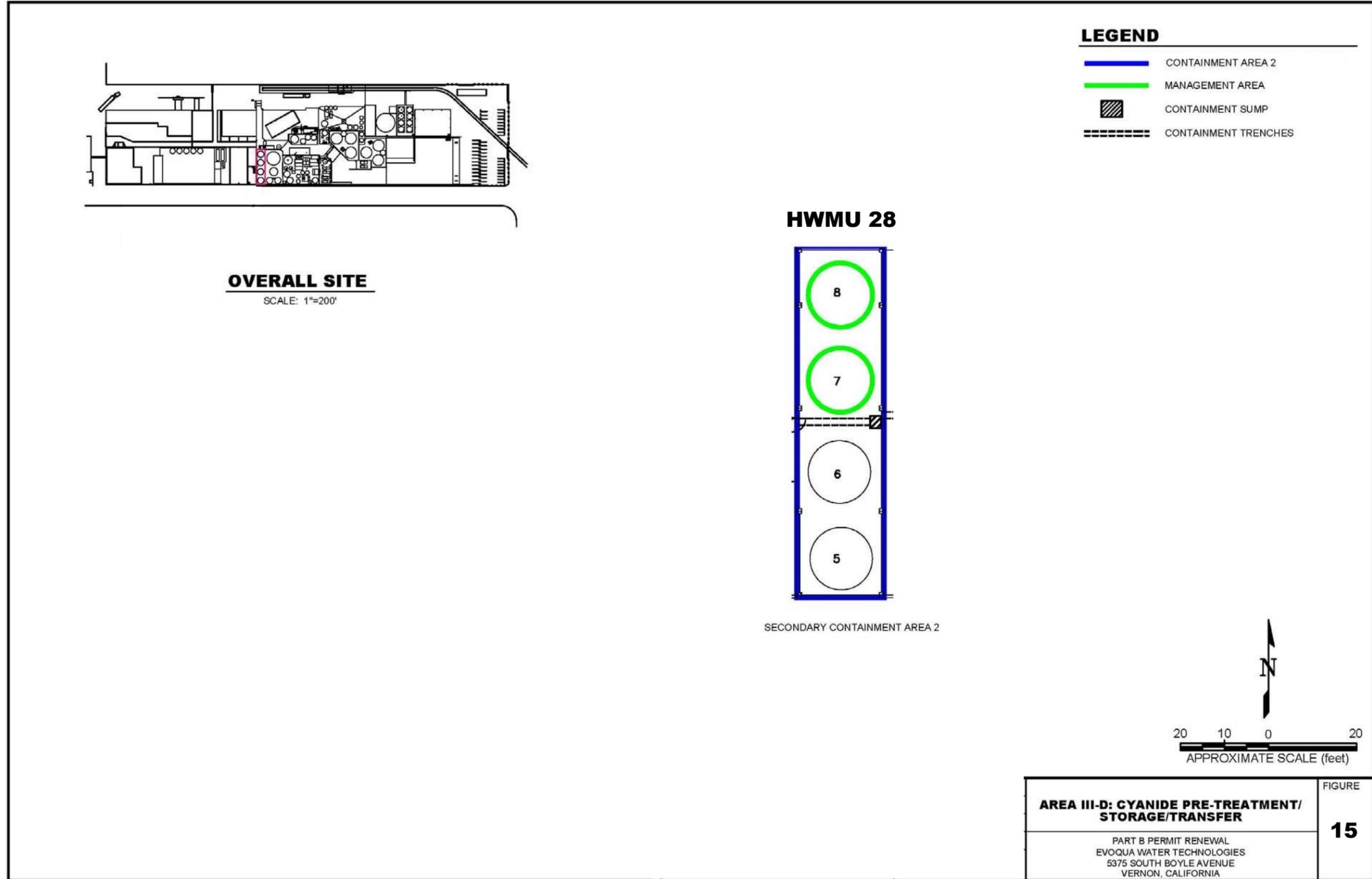


FIGURE 16
HWMU 5, 29, 30

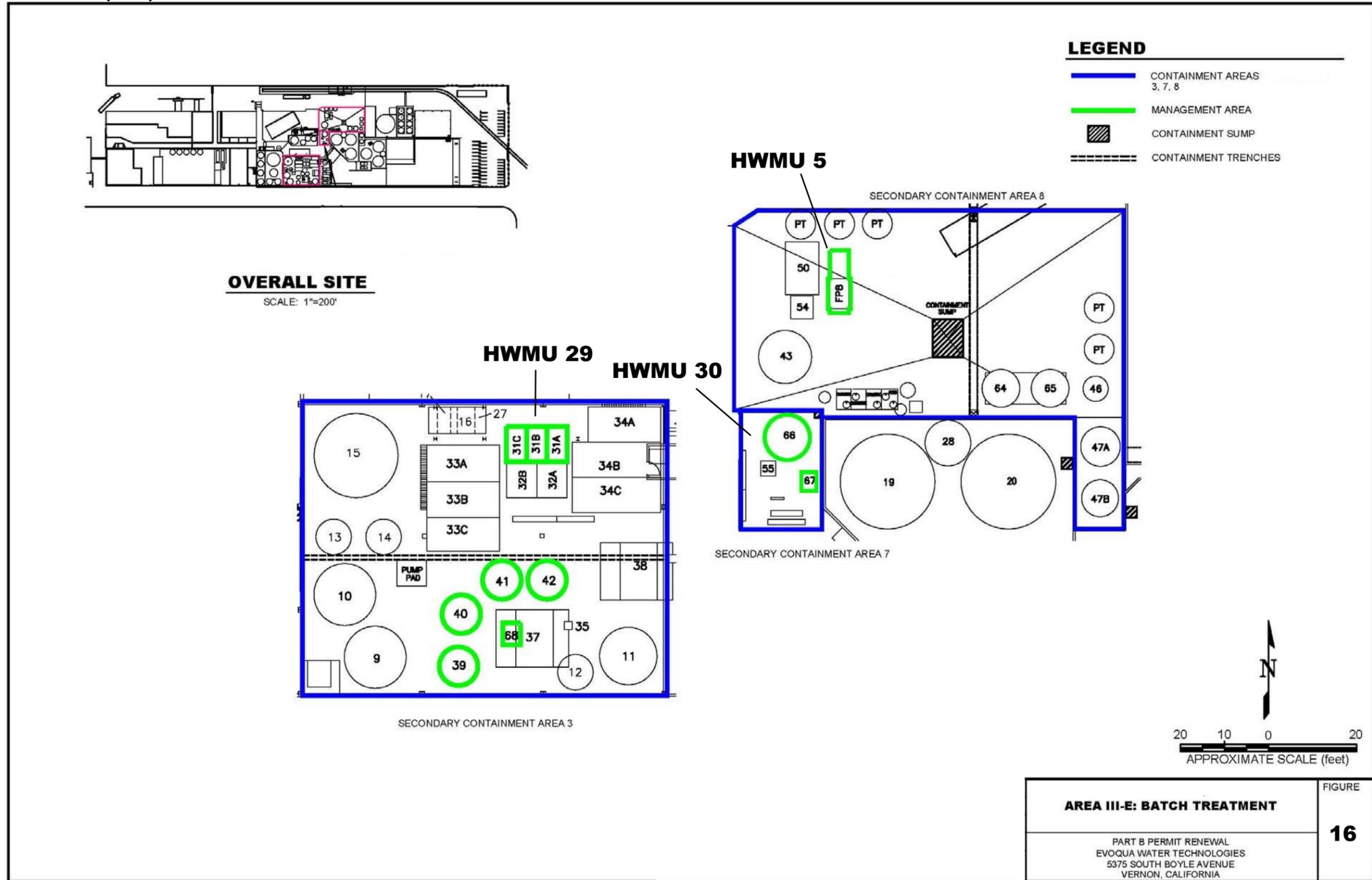


FIGURE 17
HWMU 32

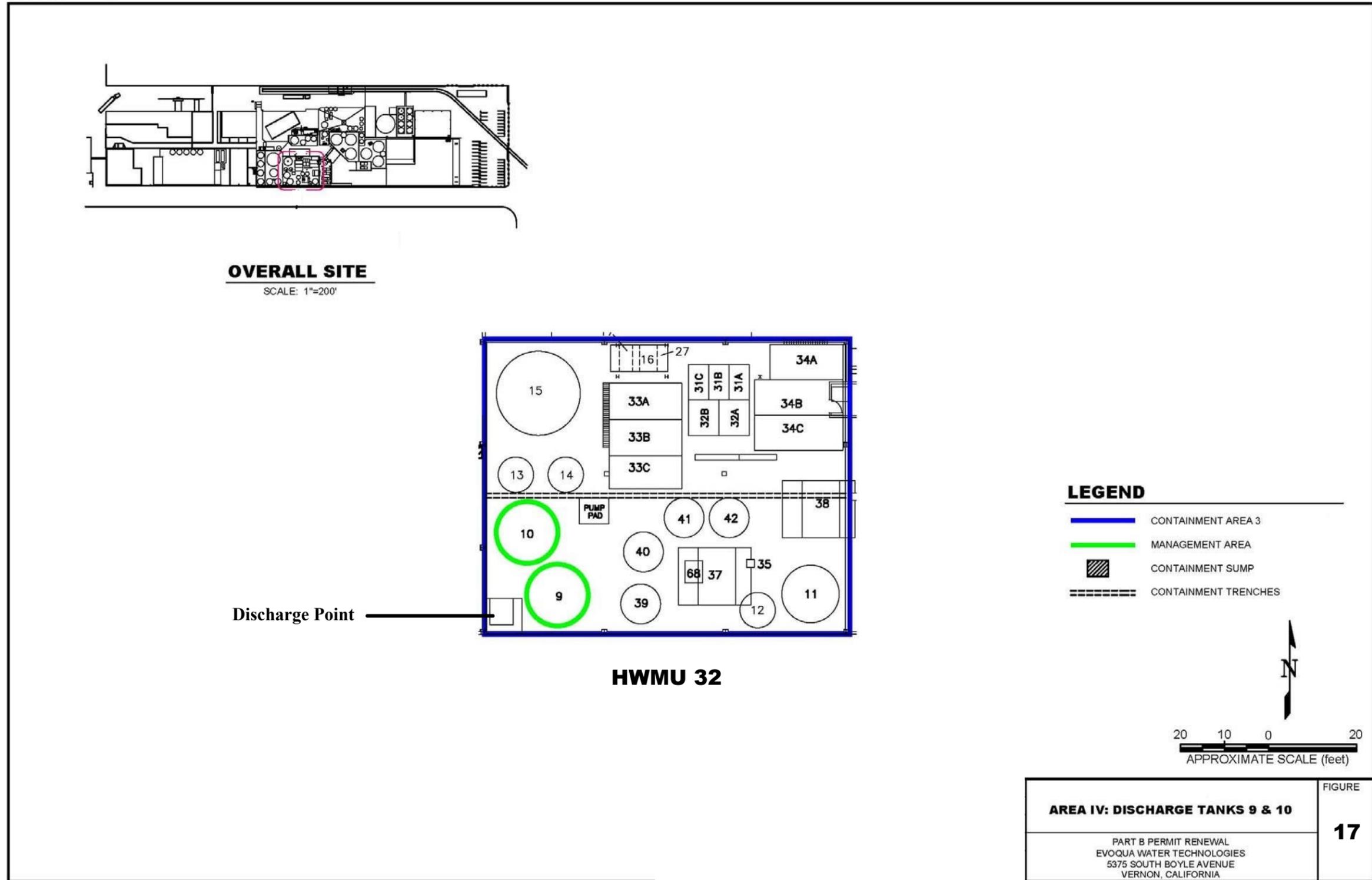
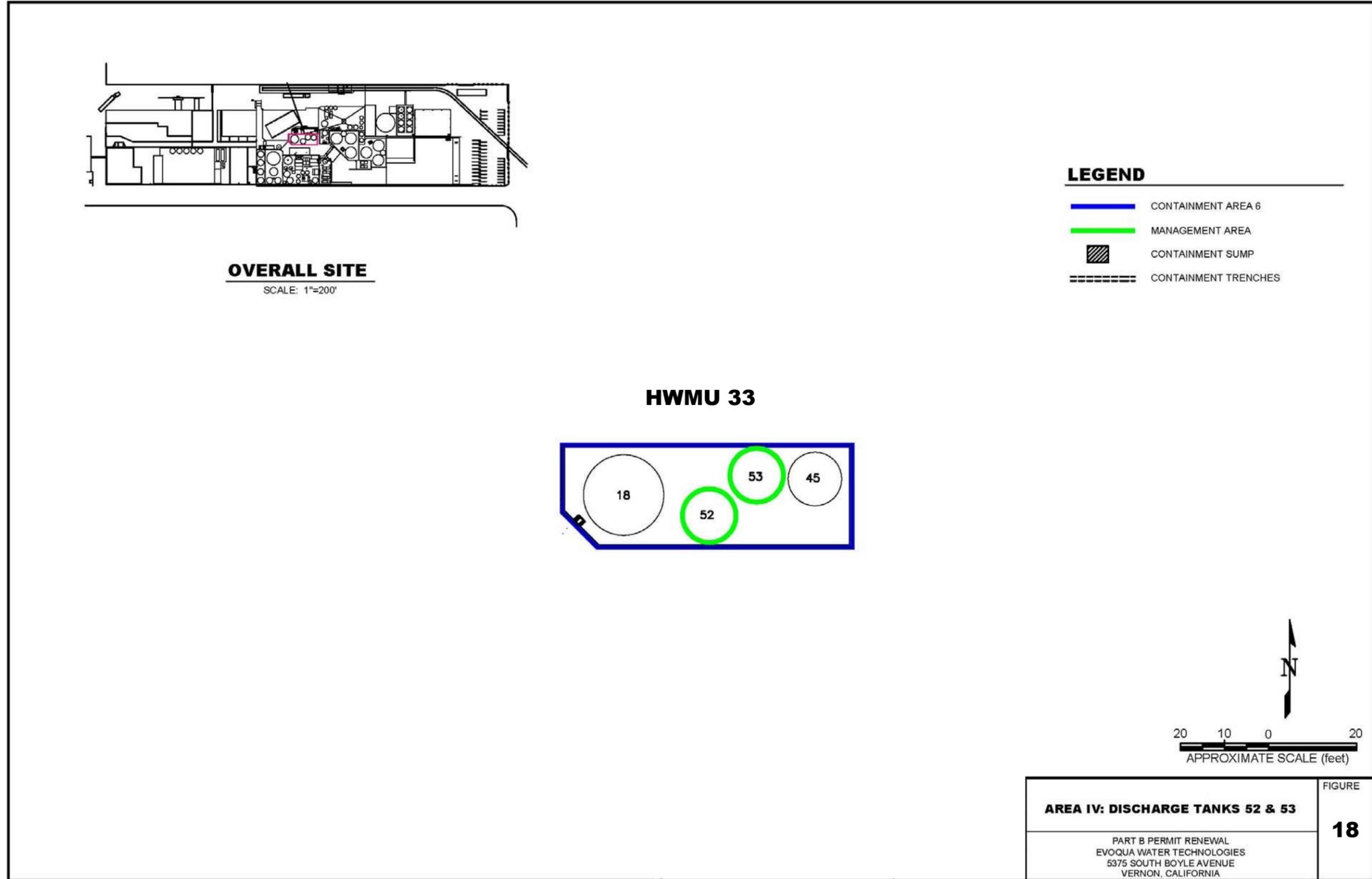


FIGURE 18
HWMU 33



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