



**California Environmental Protection Agency
Department of Toxic Substances Control
DRAFT
HAZARDOUS WASTE POST CLOSURE FACILITY PERMIT**

Facility Name:

West County Landfill, Incorporated
One Parr Boulevard
Richmond, California 94801

Owner Name:

West County Landfill, Incorporated
One Parr Boulevard
Richmond, California 94801

Operator Name:

West County Landfill, Incorporated
One Parr Boulevard
Richmond, California 94801

Facility EPA ID Number:

CAD041844002

Effective Date:

Expiration Date:

This permit supersedes the July 9, 2003 Hazardous Waste Post Closure Facility Permit

Pursuant to California Health and Safety Code section 25200, this Resource Conservation and Recovery Act (RCRA)-equivalent Hazardous Waste Post Closure Facility Permit (Permit) is hereby issued to: West County Landfill, Incorporated.

The issuance of this Permit is subject to the terms and conditions set forth in the Approved Application dated December 2008. The Permit consists of 17 pages.

Peter Bailey, P.G., Team Leader
Permit Renewal Team
Department of Toxic Substances Control

Date:

**Hazardous Waste Post-Closure Permit
West County Landfill
One Parr Boulevard
Richmond, California
EPA ID NO. CAD041844002**

HAZARDOUS WASTE POST CLOSURE FACILITY PERMIT

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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 Owner and Operator.
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

West County Landfill, Incorporated
One Parr Boulevard
Richmond, California 94801

2. Owner of Real Property

West County Landfill, Incorporated
One Parr Boulevard
Richmond, California 94801

3. Operator of Facility

West County Landfill, Incorporated
One Parr Boulevard
Richmond, California 94801

4. Location

The Facility is a wholly owned subsidiary of Bay Landfills, Inc., a subsidiary of Republic Services Inc. The Facility is located on the south shore of San Pablo Bay (see Attachments A and B). It is located at the end of Parr Boulevard which is accessed via the Richmond Parkway and from Highway 580 to the south or Highway 80 to the east-northeast. The Facility is largely within the City of Richmond (about 250 acres) and partially within the unincorporated North Richmond area of Contra Costa County (about 100 acres). The 28-acre Facility is located on the West Contra Costa Sanitary Landfill which includes a Class II landfill located to the north and west. The West County Wastewater District's Wastewater Treatment Plant is located southeast of the Facility, the Richmond Sanitary Service Corporation Yard is east of the Facility, and San Pablo Creek is northeast of the Facility. An area south of the Facility contains a landfill gas-fired electrical power plant, an equipment maintenance building, and a leachate treatment plant.

5. Description of Facility Operations

This Permit supersedes the Hazardous Waste Post Closure Facility Permit issued by DTSC to the Permittee on July 9, 2003. The Facility includes the following hazardous waste management units and features:

- A capped, closed Class I Hazardous Waste Landfill identified as the Hazardous Waste Management Facility (HWMF),
- A Leachate Treatment System (LTS) located south of the HWMF,
- A Corrective Action Management Unit (CAMU) which receives solid hazardous waste generated from the LTS, and
- An area undergoing groundwater monitoring known as the E-22R Area.

6. Facility History

The Facility was a waste disposal facility from 1953 to 1985. During a portion of this time, it was operated by Richmond Sanitary Service. The Facility was purchased by a group of facility operators in 1989 and later by Republic Services, Inc. in 2003. The Facility included a former 9.5-acre surface impoundment and an 11.5-acre landfill. The wastes received at the Facility included demolition debris, municipal solid waste, and industrial solid waste. The Facility started to receive hazardous waste in later years and obtained a Hazardous Waste Post Closure Facility Permit from DTSC on July 9, 2003.

7. Facility Size and Type for Fee Purposes

The Facility is categorized as a large Post Closure facility pursuant to Health and Safety Code section 25205.7(d)(5). For the purpose of Health and Safety Code section 25205.4, the Post Closure period for the Facility shall be deemed to have started in the fall of 2003 when closure construction activities were completed.

PART III. GENERAL CONDITIONS

1. PERMIT APPLICATION DOCUMENTS

The DTSC-approved Post Closure Permit Application, Part A and Part B, dated December 2008 (Approved Application) is hereby made a part of this Permit by reference.

2. EFFECT OF PERMIT

- (a) The Permittee shall comply with the applicable 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 operate, monitor, and maintain this Facility for post closure activities in accordance with the terms and conditions of this Permit and the Approved Application.
- (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 this Permit in the time or manner specified herein is grounds for revocation of this Permit (Cal. Code Regs., tit. 22, §66270.43), and will subject the Permittee to enforcement action pursuant to Health and Safety Code sections 25187 and 25189.2(b).

- (f) Failure to submit any information or document required in connection with the Permit, or falsification or misrepresentation of any submitted information or document is grounds for revocation of this Permit (Cal. Code Regs., tit. 22, §66270.43), and will subject the Permittee to enforcement action pursuant to Health and Safety Code sections 25187 and 25189.2(a).
- (g) In case of conflicts between the Approved Application and the Permit, the Permit conditions take precedence.
- (h) This Permit includes and incorporates by reference any conditions of WDRs issued to 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.

3. COMPLIANCE WITH CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

A Notice of Exemption has been prepared in accordance with the requirements of Public Resources Code section 21000 et seq. and the CEQA Guidelines Section 15061(b)(3) of California Code of Regulations, title 14.

4. ENVIRONMENTAL MONITORING

The Permittee shall comply with the applicable environmental monitoring and response program requirements of California Code of Regulations, title 22, division 4.5, chapter 14, articles 6 and 17.

- a) For the purpose of California Code of Regulations, title 22, section 66264.91(b), the elements of the Groundwater Monitoring and Response Program for the Facility are those described in Appendix E of the Approved Application.
- b) For the purpose of California Code of Regulations, title 22, section 66264.92, the Water Quality Protection Standard is described in Appendix E of the Approved Application.
- c) For the purpose of California Code of Regulations, title 22, section 66264.93, the Constituents of Concern for the Facility are described in Appendix E of the Approved Application.

- d) For the purpose of California Code of Regulations, title 22, section 66264.94, the Concentration Limits for the Facility are in Appendix E of the Approved Application.
- e) For the purpose of California Code of Regulations, title 22, section 66264.95, the Monitoring Points and Points of Compliance for each authorized unit at the Facility are described in Appendix E of the Approved Application.
- f) For the purpose of California Code of Regulations, title 22, section 66264.96 the Compliance Period for each authorized unit at the Facility is 30 years. DTSC may extend the Post Closure monitoring period beyond 30 years to protect human health and the environment in accordance with California Code of Regulations, title 22, section 66264.117.
- g) For the purpose of California Code of Regulations, title 22, section 66270.31, the monitoring, recording, and reporting program for the Facility is described in Appendix E of the Approved Application.

5. ACCESS

- (a) DTSC, its contractors, employees, agents, and/or any United State 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 the operation, monitoring and maintenance 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.

For the purpose of California Code of Regulations, title 22, section 66270.1(c) and other similar, unit-specific regulatory requirements, this Facility has four Hazardous Waste Management Units. These units are described in detail in the Approved Application and are as follows:

UNIT NAME:

The unit names are the HWMF, the CAMU, the LTS, and the E-22R Area. These units are shown in Attachment C.

LOCATION:

The HWMF occupies the majority of the Facility space. The CAMU and LTS are located south of the HWMF. The E-22R Area is located east of the HWMF.

ACTIVITY TYPE AND DESCRIPTION:

The HWMF consists of a hazardous waste landfill cover and slurry wall. This portion of the Facility is inactive. However, numerous extraction wells are installed to extract liquids from within the slurry wall boundary of the HWMF. The liquids are pumped through a network of conveyance pipes to the LTS for treatment. In addition, numerous piezometers and observation wells inside and outside of the slurry wall are used to gather liquid levels and water quality data to continually assess the efficiency of the liquid extraction system.

The LTS receives liquids from the HWMF, treats the liquids by removing the contaminants to levels allowed by the Publicly Operated Treatment Works (POTW) Richmond Plant, and discharges to the POTW. The by-product of this treatment is filter-cake which is a hazardous waste. The filter-cake is periodically transferred to one of two solid waste cells within the CAMU.

The CAMU consists of two impoundments designed to receive filter cake from the LTS process. Solid waste is placed in the impoundment as detailed in the Approved Application and covered.

The E-22R Area is also bounded by a slurry wall and is being monitored by a network of monitoring wells and piezometers. Liquids from extraction wells are located within the slurry wall and pumped through a network of conveyance pipes to the LTS for treatment.

WASTE TYPES:

Wastes managed at the HWMF included caustic and acidic liquids and solids, petroleum refining sludge, catalysts, oily slurries, truck-washout debris, pesticides, alkalis, cyanides, sulfides, oxidizers, contaminated soils, organic sludge, shredded currency, and paint pigment sludge. Wastes generated at the Facility include liquids from the HWMF extraction system.

MAXIMUM CAPACITY

HWMF

The total estimated amount of waste in the HWMF, including soil material used to cover and segregate wastes placed in the landfill during operations, is 831,000 cubic yards. In addition, approximately 146,000 cubic yards of soil and municipal solid waste were placed on top of the HWMF as fill to meet final closure design grades. Therefore, a total of 977,000 cubic yards of wastes and fill are contained in the HWMF.

LTS

The estimated maximum capacity of the LTS to process liquid leachate generated from the extraction system is from 20 to 25 gallons per minute. The solids or filter cake generated from the treatment process are approximately two cubic yards per day.

CAMU

The CAMU occupies 61,591 square feet. As of March 2008, 21,290 cubic yards of space were available in the CAMU to receive waste solids from the LTS.

E-22R Area

Maximum Capacity is not applicable for this Area.

RCRA HAZARDOUS WASTE CODES:

The liquids generated from the HWMF extraction system and the solids generated from the LTS are termed as Landfill Leachate Solids and Liquids in the Approved Application. The wastes are identified as U.S. Environmental Protection Agency (EPA) Hazardous Waste Number F039.

AIR EMISSION STANDARDS

There are currently four sources at the Facility that are permitted by the Bay Area Air Quality Management District (BAAQMD):

- HWMF Class I and Extraction Well field
- CAMU
- LTS
- Class I Flare System

The BAAQMD permits associated with the above sources are included in Appendix I of the Approved Application. The Facility will perform periodic surface air monitoring to verify the integrity of the low permeability soil and geomembrane cover to check for potential leaks and associated fugitive emissions. The standard surface scan procedure will be performed twice annually. Additional scans may be required on a contingency basis, in response to significant site disturbances such as seismic activity or weather extremes.

Surface air monitoring procedures will conform to the applicable requirements of BAAQMD Regulation 8-34. These procedures typically utilize a flame ionization detector to monitor surface concentrations of volatile organic compounds in ambient air, along a grid path covering the entire landfill surface. The BAAQMD-recommended surface emission sampling pattern (parallel lines at 90-foot spacing, plus the perimeter of the waste unit) will be used.

PART V. SPECIAL CONDITIONS

1. CONSENT ORDER

The Permittee shall comply with the terms and conditions of the Consent Order entered into between the Permittee and DTSC, Docket HWCA 20061079, dated September 26, 2007 (Consent Order).

2. WASTE DISCHARGE REQUIREMENTS

The Permittee shall comply with the Waste Discharge Requirements, R2-2002-0066, adopted in 2006 by the Regional Water Quality Control Board (RWQCB) and any other Waste Discharge Requirements adopted by RWQCB..

3. CAMU CAPACITY

The maximum capacity of the CAMU will be achieved prior to or shortly after the term of this Permit. For this reason, the Facility is required to notify DTSC one year before meeting the maximum capacity of the CAMU or on the ninth year from the effective date of this Permit, whichever comes first. At the time of notification, the Facility shall identify a schedule which includes a workplan to evaluate the closure of the CAMU and alternative disposal options for the solid wastes generated from LTS.

4. CHANGES TO GROUNDWATER MONITORING PROGRAM

Due to the dynamic nature of the site conditions at the Facility, changes to the groundwater monitoring program, such as replacing, or adding groundwater or liquid monitoring wells, piezometers, or extraction wells, will most likely be required. As provided in Section 4.5 of the Consent Order, the Permittee is authorized to implement repairs and replacement of existing leachate extraction wells, piezometers, associated pumps and conveyance systems and construction of new extraction wells and piezometers without a permit modification as long as the Permittee makes these changes in accordance with a DTSC-approved workplan. The Permittee shall submit the workplan for any proposed changed for DTSC's approval at least 30 days prior to any planned changes. For changes to the groundwater monitoring system that are not addressed in the Consent Order, or that require destroying monitoring wells or piezometers, the Permittee shall submit a request for permit modification to DTSC in accordance with California Code of Regulations, title 22, section 66270.42 prior to implanting any such changes.

PART VI - CORRECTIVE ACTION

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 48 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 workplan 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 workplan 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.





