

FEDERAL OPERATING PERMIT

A FEDERAL OPERATING PERMIT IS HEREBY ISSUED TO
Gulf Coast Authority

AUTHORIZING THE OPERATION OF
Bayport Facility
Sewage Treatment Facilities

LOCATED AT
Harris County, Texas
Latitude 29° 36' 46" Longitude 95° 2' 41"
Regulated Entity Number: RN100219211

This permit is issued in accordance with and subject to the Texas Clean Air Act (TCAA), Chapter 382 of the Texas Health and Safety Code and Title 30 Texas Administrative Code Chapter 122 (30 TAC Chapter 122), Federal Operating Permits. Under 30 TAC Chapter 122, this permit constitutes the permit holder's authority to operate the site and emission units listed in this permit. Operations of the site and emission units listed in this permit are subject to all additional rules or amended rules and orders of the Commission pursuant to the TCAA.

This permit does not relieve the permit holder from the responsibility of obtaining New Source Review authorization for new, modified, or existing facilities in accordance with 30 TAC Chapter 116, Control of Air Pollution by Permits for New Construction or Modification.

The site and emission units authorized by this permit shall be operated in accordance with 30 TAC Chapter 122, the general terms and conditions, special terms and conditions, and attachments contained herein.

This permit shall expire five years from the date of issuance. The renewal requirements specified in 30 TAC § 122.241 must be satisfied in order to renew the authorization to operate the site and emission units.

Permit No: O1708 Issuance Date: _____

For the Commission

Table of Contents

Section	Page
General Terms and Conditions	1
Special Terms and Conditions:	1
Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting.....	1
New Source Review Authorization Requirements	6
Compliance Requirements.....	6
Alternative Requirements.....	8
Permit Location	8
Permit Shield (30 TAC § 122.148)	8
Attachments	9
Applicable Requirements Summary.....	10
Permit Shield.....	19
New Source Review Authorization References	23
Alternative Requirement.....	29
Appendix A.....	34
Acronym List	35

General Terms and Conditions

The permit holder shall comply with all terms and conditions contained in 30 TAC § 122.143 (General Terms and Conditions), 30 TAC § 122.144 (Recordkeeping Terms and Conditions), 30 TAC § 122.145 (Reporting Terms and Conditions), and 30 TAC § 122.146 (Compliance Certification Terms and Conditions).

In accordance with 30 TAC § 122.144(1), records of required monitoring data and support information required by this permit, or any applicable requirement codified in this permit, are required to be maintained for a period of five years from the date of the monitoring report, sample, or application unless a longer data retention period is specified in an applicable requirement. The five year record retention period supersedes any less stringent retention requirement that may be specified in a condition of a permit identified in the New Source Review Authorization attachment.

If the permit holder chooses to demonstrate that this permit is no longer required, a written request to void this permit shall be submitted to the Texas Commission on Environmental Quality (TCEQ) by the Responsible Official in accordance with 30 TAC § 122.161(e). The permit holder shall comply with the permit's requirements, including compliance certification and deviation reporting, until notified by the TCEQ that this permit is voided.

The permit holder shall comply with 30 TAC Chapter 116 by obtaining a New Source Review authorization prior to new construction or modification of emission units located in the area covered by this permit.

All reports required by this permit must include in the submittal a cover letter which identifies the following information: company name, TCEQ regulated entity number, air account number (if assigned), site name, area name (if applicable), and Air Permits Division permit number(s).

Special Terms and Conditions:

Emission Limitations and Standards, Monitoring and Testing, and Recordkeeping and Reporting

1. Permit holder shall comply with the following requirements:
 - A. Emission units (including groups and processes) in the Applicable Requirements Summary attachment shall meet the limitations, standards, equipment specifications, monitoring, recordkeeping, reporting, testing, and other requirements listed in the Applicable Requirements Summary attachment to assure compliance with the permit.
 - B. The textual description in the column titled "Textual Description" in the Applicable Requirements Summary attachment is not enforceable and is not deemed as a substitute for the actual regulatory language. The Textual Description is provided for information purposes only.
 - C. A citation listed on the Applicable Requirements Summary attachment, which has a notation [G] listed before it, shall include the referenced section and subsection for all commission rules, or paragraphs for all federal and state regulations and all subordinate paragraphs, subparagraphs and clauses, subclauses, and items contained within the referenced citation as applicable requirements.
 - D. When a grouped citation, notated with a [G] in the Applicable Requirements Summary, contains multiple compliance options, the permit holder must keep records of when each compliance option was used.
 - E. Emission units subject to 40 CFR Part 63, Subparts G or VVV as identified in the attached Applicable Requirements Summary table are subject to 30 TAC Chapter 113,

Subchapter C, §§ 113.120 or 113.790 which incorporates the 40 CFR Part 63 Subparts by reference.

2. The permit holder shall comply with the following sections of 30 TAC Chapter 101 (General Air Quality Rules):
 - A. Title 30 TAC § 101.1 (relating to Definitions), insofar as the terms defined in this section are used to define the terms used in other applicable requirements
 - B. Title 30 TAC § 101.3 (relating to Circumvention)
 - C. Title 30 TAC § 101.8 (relating to Sampling), if such action has been requested by the TCEQ
 - D. Title 30 TAC § 101.9 (relating to Sampling Ports), if such action has been requested by the TCEQ
 - E. Title 30 TAC § 101.10 (relating to Emissions Inventory Requirements)
 - F. Title 30 TAC § 101.201 (relating to Emission Event Reporting and Recordkeeping Requirements)
 - G. Title 30 TAC § 101.211 (relating to Scheduled Maintenance, Start-up, and Shutdown Reporting and Recordkeeping Requirements)
 - H. Title 30 TAC § 101.221 (relating to Operational Requirements)
 - I. Title 30 TAC § 101.222 (relating to Demonstrations)
 - J. Title 30 TAC § 101.223 (relating to Actions to Reduce Excessive Emissions)
3. Permit holder shall comply with the following requirements of 30 TAC Chapter 111:
 - A. Visible emissions from stationary vents with a flow rate of less than 100,000 actual cubic feet per minute and constructed after January 31, 1972 that are not listed in the Applicable Requirements Summary attachment for 30 TAC Chapter 111, Subchapter A, Division 1, shall not exceed 20% opacity averaged over a six-minute period. The permit holder shall comply with the following requirements for stationary vents at the site subject to this standard:
 - (i) Title 30 TAC § 111.111(a)(1)(B) (relating to Requirements for Specified Sources)
 - (ii) Title 30 TAC § 111.111(a)(1)(E)
 - (iii) Title 30 TAC § 111.111(a)(1)(F)(i), (ii), (iii), or (iv)
 - (iv) For emission units with vent emissions subject to 30 TAC § 111.111(a)(1)(B), complying with 30 TAC § 111.111(a)(1)(F)(ii), (iii), or (iv), and capable of producing visible emissions from, but not limited to, particulate matter, acid gases and NO_x, the permit holder shall also comply with the following periodic monitoring requirements for the purpose of annual compliance certification under 30 TAC § 122.146. These periodic monitoring requirements do not apply to vents that are not capable of producing visible emissions such as vents that emit only colorless VOCs; vents from non-fuming liquids; vents that provide passive ventilation, such as plumbing vents; or vent emissions from any other source that

does not obstruct the transmission of light. Vents, as specified in the “Applicable Requirements Summary” attachment, that are subject to the emission limitation of 30 TAC § 111.111(a)(1)(B) are not subject to the following periodic monitoring requirements:

- (1) An observation of stationary vents from emission units in operation shall be conducted at least once during each calendar quarter unless the emission unit is not operating for the entire quarter.
- (2) For stationary vents from a combustion source, if an alternative to the normally fired fuel is fired for a period greater than or equal to 24 consecutive hours, the permit holder shall conduct an observation of the stationary vent for each such period to determine if visible emissions are present. If such period is greater than 3 months, observations shall be conducted once during each quarter. Supplementing the normally fired fuel with natural gas or fuel gas to increase the net heating value to the minimum required value does not constitute creation of an alternative fuel.
- (3) Records of all observations shall be maintained.
- (4) Visible emissions observations of emission units operated during daylight hours shall be conducted no earlier than one hour after sunrise and no later than one hour before sunset. Visible emissions observations of emission units operated only at night must be made with additional lighting and the temporary installation of contrasting backgrounds. Visible emissions observations shall be made during times when the activities described in 30 TAC § 111.111(a)(1)(E) are not taking place. Visible emissions shall be determined with each stationary vent in clear view of the observer. The observer shall be at least 15 feet, but not more than 0.25 mile, away from each stationary vent during the observation. For outdoor locations, the observer shall select a position where the sun is not directly in the observer’s eyes. When condensed water vapor is present within the plume, as it emerges from the emissions outlet, observations must be made beyond the point in the plume at which condensed water vapor is no longer visible. When water vapor within the plume condenses and becomes visible at a distance from the emissions outlet, the observation shall be evaluated at the outlet prior to condensation of water vapor. A certified opacity reader is not required for visible emissions observations.
- (5) Compliance Certification:
 - (a) If visible emissions are not present during the observation, the RO may certify that the source is in compliance with the applicable opacity requirement in 30 TAC § 111.111(a)(1) and (a)(1)(B).
 - (b) However, if visible emissions are present during the observation, the permit holder shall either list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2) or conduct the appropriate opacity test specified in 30 TAC § 111.111(a)(1)(F) as soon as practicable, but no later than 24 hours after observing visible emissions to determine if the source is in compliance with the opacity requirements. If an opacity test is performed and the source is

determined to be in compliance, the RO may certify that the source is in compliance with the applicable opacity requirement. However, if an opacity test is performed and the source is determined to be out of compliance, the permit holder shall list this occurrence as a deviation on the next deviation report as required under 30 TAC § 122.145(2). The opacity test must be performed by a certified opacity reader.

- (c) Some vents may be subject to multiple visible emission or monitoring requirements. All credible data must be considered when certifying compliance with this requirement even if the observation or monitoring was performed to demonstrate compliance with a different requirement.
- B. Certification of opacity readers determining opacities under Method 9 (as outlined in 40 CFR Part 60, Appendix A) to comply with opacity monitoring requirements shall be accomplished by completing the Visible Emissions Evaluators Course, or approved agency equivalent, no more than 180 days before the opacity reading.
- C. For emission units with contributions from uncombined water, the permit holder shall comply with the requirements of 30 TAC § 111.111(b).
- D. Emission limits on nonagricultural processes, except for the steam generators specified in 30 TAC § 111.153, shall comply with the following requirements:
 - (i) Emissions of PM from any source may not exceed the allowable rates as required in 30 TAC § 111.151(a) (relating to Allowable Emissions Limits)
 - (ii) Sources with an effective stack height (h_e) less than the standard effective stack height (H_e), must reduce the allowable emission level by multiplying it by $[h_e/H_e]^2$ as required in 30 TAC § 111.151(b)
 - (iii) Effective stack height shall be calculated by the equation specified in 30 TAC § 111.151(c)
- E. Outdoor burning, as stated in 30 TAC § 111.201, shall not be authorized unless the following requirements are satisfied:
 - (i) Title 30 TAC § 111.207 (relating to Exception for Recreation, Ceremony, Cooking, and Warmth)
 - (ii) Title 30 TAC § 111.219 (relating to General Requirements for Allowable Outdoor Burning)
 - (iii) Title 30 TAC § 111.221 (relating to Responsibility for Consequences of Outdoor Burning)
- 4. For storage vessels maintaining working pressure as specified in 30 TAC Chapter 115, Subchapter B, Division 1: Storage of Volatile Organic Compounds, the permit holder shall comply with the requirements of 30 TAC § 115.112(e)(1).
- 5. For industrial wastewater specified in 30 TAC Chapter 115, Subchapter B, the permit holder shall comply with the following requirements for wastewater drains, junction boxes, lift stations and weirs:

- A. Title 30 TAC § 115.142 (relating to Control Requirements)
 - B. Title 30 TAC § 115.142(1)(A) - (D) (relating to Control Requirements)
 - C. Title 30 TAC § 115.142(1)(E) and (F) (relating to Control Requirements)
 - D. Title 30 TAC § 115.142(1)(G) and (H) (relating to Control Requirements)
 - E. Title 30 TAC § 115.144(1), (5), and (6) (relating to Inspection and Monitoring Requirements)
 - F. Title 30 TAC § 115.145 (relating to Approved Test Methods)
 - G. Title 30 TAC § 115.146 (relating to Recordkeeping Requirements)
 - H. Title 30 TAC § 115.148 (relating to Determination of Wastewater Characteristics)
6. Permit holder shall comply with the following 30 TAC Chapter 115, Subchapter C requirements:
- A. When filling stationary gasoline storage vessels (Stage I) for motor vehicle fuel dispensing facilities, constructed prior to November 15, 1992, with transfers to stationary storage tanks located at a facility which has dispensed no more than 10,000 gallons of gasoline in any calendar month after January 1, 1991, the permit holder shall comply with the following requirements specified in 30 TAC Chapter 115, Subchapter C:
 - (i) Title 30 TAC § 115.222(3) (relating to Control Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors
 - (ii) Title 30 TAC § 115.222(6) (relating to Control Requirements)
 - (iii) Title 30 TAC § 115.224(1) (relating to Inspection Requirements), as it applies to liquid gasoline leaks, visible vapors, or significant odors
 - (iv) Title 30 TAC § 115.226(2)(B) (relating to Recordkeeping Requirements)
7. The permit holder shall comply with the requirements of 30 TAC § 115.722(b) (relating to Site-wide Cap and Control Requirements) and the requirements of 30 TAC § 115.726(g) (relating to Recordkeeping and Reporting Requirements).
8. The permit holder shall comply with the requirements of 30 TAC § 115.726(e)(3)(A) for vent streams from sources exempt under 30 TAC § 115.727(c)(3).
9. The permit holder shall comply with the following requirements of 30 TAC Chapter 117:
- A. For boilers, process heaters, stationary reciprocating engines, and turbines (including duct burners) exempt from Subchapter D, Division 1 at minor sources of NO_x under 30 TAC § 117.2003(a), the permit holder shall comply with 30 TAC §§ 117.2030(c), 117.2035(g), 117.2045(b) and 117.2045(c).
10. The permit holder shall comply with the requirements of 30 TAC Chapter 113, Subchapter C, § 113.100 for units subject to any subpart of 40 CFR Part 63, unless otherwise stated in the applicable subpart.
11. The permit holder shall comply with certified registrations submitted to the TCEQ for purposes of establishing federally enforceable emission limits. A copy of the certified registration shall be

maintained with the permit. Records sufficient to demonstrate compliance with the established limits shall be maintained. The certified registration and records demonstrating compliance shall be provided, on request, to representatives of the appropriate TCEQ regional office and any local air pollution control agency having jurisdiction over the site. The permit holder shall submit updated certified registrations when changes at the site require establishment of new emission limits. If changes result in emissions that do not remain below major source thresholds, the permit holder shall submit a revision application to codify the appropriate requirements in the permit.

New Source Review Authorization Requirements

12. Permit holder shall comply with the requirements of New Source Review authorizations issued or claimed by the permit holder for the permitted area, including permits, permits by rule (including the terms, conditions, monitoring, recordkeeping, and reporting identified in registered PBRs and permits by rule identified in the PBR Supplemental Tables dated November 25, 2025 in the application for project 39454), standard permits, flexible permits, special permits, permits for existing facilities including Voluntary Emissions Reduction Permits and Electric Generating Facility Permits issued under 30 TAC Chapter 116, Subchapter I, or special exemptions referenced in the New Source Review Authorization References attachment. These requirements:
 - A. Are incorporated by reference into this permit as applicable requirements
 - B. Shall be located with this operating permit
 - C. Are not eligible for a permit shield
13. The permit holder shall comply with the general requirements of 30 TAC Chapter 106, Subchapter A or the general requirements, if any, in effect at the time of the claim of any PBR.
14. The permit holder shall maintain records to demonstrate compliance with any emission limitation or standard that is specified in a permit by rule (PBR) or Standard Permit listed in the New Source Review Authorizations attachment. The records shall yield reliable data from the relevant time period that are representative of the emission unit's compliance with the PBR or Standard Permit. These records may include, but are not limited to, production capacity and throughput, hours of operation, safety data sheets (SDS), chemical composition of raw materials, speciation of air contaminant data, engineering calculations, maintenance records, fugitive data, performance tests, capture/control device efficiencies, direct pollutant monitoring (CEMS, COMS, or PEMS), or control device parametric monitoring. These records shall be made readily accessible and available as required by 30 TAC § 122.144. Any monitoring or recordkeeping data indicating noncompliance with the PBR or Standard Permit shall be considered and reported as a deviation according to 30 TAC § 122.145 (Reporting Terms and Conditions).

Compliance Requirements

15. The permit holder shall certify compliance in accordance with 30 TAC § 122.146. The permit holder shall comply with 30 TAC § 122.146 using at a minimum, but not limited to, the continuous or intermittent compliance method data from monitoring, recordkeeping, reporting, or testing required by the permit and any other credible evidence or information. The certification period may not exceed 12 months and the certification must be submitted within 30 days after the end of the period being certified.
16. Use of Emission Credits to comply with applicable requirements:

- A. Unless otherwise prohibited, the permit holder may use emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) Offsets for Title 30 TAC Chapter 116
 - B. The permit holder shall comply with the following requirements in order to use the emission credits to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.306(c)-(d)
 - (ii) The emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 1
 - (iii) The executive director has approved the use of the credit according to 30 TAC § 101.306(c)-(d)
 - (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.302(g) and 30 TAC Chapter 122
 - (v) Title 30 TAC § 101.305 (relating to Emission Reductions Achieved Outside the United States)
17. Use of Discrete Emission Credits to comply with the applicable requirements:
- A. Unless otherwise prohibited, the permit holder may use discrete emission credits to comply with the following applicable requirements listed elsewhere in this permit:
 - (i) Title 30 TAC Chapter 115
 - (ii) Title 30 TAC Chapter 117
 - (iii) If applicable, offsets for Title 30 TAC Chapter 116
 - (iv) Temporarily exceed state NSR permit allowables
 - B. The permit holder shall comply with the following requirements in order to use the credit to comply with the applicable requirements:
 - (i) The permit holder must notify the TCEQ according to 30 TAC § 101.376(d)
 - (ii) The discrete emission credits to be used must meet all the geographic, timeliness, applicable pollutant type, and availability requirements listed in 30 TAC Chapter 101, Subchapter H, Division 4
 - (iii) The executive director has approved the use of the discrete emission credits according to 30 TAC § 101.376(d)(1)(A)

- (iv) The permit holder keeps records of the use of credits towards compliance with the applicable requirements in accordance with 30 TAC § 101.372(h) and 30 TAC Chapter 122
- (v) Title 30 TAC § 101.375 (relating to Emission Reductions Achieved Outside the United States)

Alternative Requirements

- 18. The permit holder shall comply with the approved alternative means of control (AMOC); alternative monitoring, recordkeeping, or reporting requirements; or requirements determined to be equivalent to an otherwise applicable requirement contained in the Alternative Requirements attachment of this permit. Units complying with an approved alternative requirement have reference to the approval in the Applicable Requirements summary listing for the unit. The permit holder shall maintain the original documentation, from the EPA Administrator and TCEQ Executive Director), demonstrating the method or limitation utilized. Documentation shall be maintained and made available in accordance with 30 TAC § 122.144.

Permit Location

- 19. The permit holder shall maintain a copy of this permit and records related to requirements listed in this permit on site.

Permit Shield (30 TAC § 122.148)

- 20. A permit shield is granted for the emission units, groups, or processes specified in the attached "Permit Shield." Compliance with the conditions of the permit shall be deemed compliance with the specified potentially applicable requirements or specified potentially applicable state-only requirements listed in the attachment "Permit Shield." Permit shield provisions shall not be modified by the executive director until notification is provided to the permit holder. No later than 90 days after notification of a change in a determination made by the executive director, the permit holder shall apply for the appropriate permit revision to reflect the new determination. Provisional terms are not eligible for this permit shield. Any term or condition, under a permit shield, shall not be protected by the permit shield if it is replaced by a provisional term or condition or the basis of the term and condition changes.

Attachments

Applicable Requirements Summary

Permit Shield

New Source Review Authorization References

Alternative Requirement

Applicable Requirements Summary

Unit Summary 11

Applicable Requirements Summary 12

Note: A “none” entry may be noted for some emission sources in this permit’s “Applicable Requirements Summary” under the heading of “Monitoring and Testing Requirements” and/or “Recordkeeping Requirements” and/or “Reporting Requirements.” Such a notation indicates that there are no requirements for the indicated emission source as identified under the respective column heading(s) for the stated portion of the regulation when the emission source is operating under the conditions of the specified SOP Index Number. However, other relevant requirements pursuant to 30 TAC Chapter 122 including Recordkeeping Terms and Conditions (30 TAC § 122.144), Reporting Terms and Conditions (30 TAC § 122.145), and Compliance Certification Terms and Conditions (30 TAC § 122.146) continue to apply.

Unit Summary

Unit/Group/ Process ID No.	Unit Type	Group/Inclusive Units	SOP Index No.	Regulation	Requirement Driver
BSPIPE	WASTEWATER UNITS	N/A	R5140-BSPIPE	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
BSPIPE	TREATMENT PROCESS	N/A	63G-BSPIPE	40 CFR Part 63, Subpart G	No changing attributes.
BSPIPE	TREATMENT PROCESS	N/A	63VVV	40 CFR Part 63, Subpart VVV	No changing attributes.
GRPPOBTU	WASTEWATER UNITS	T2001, T2002, T2003, T2004, T2005, TK4101, TK4102, TK4103, TK4104, TK4105	R5140-POBTU	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
GRPPOBTU	TREATMENT PROCESS	T2001, T2002, T2003, T2004, T2005, TK4101, TK4102, TK4103, TK4104, TK4105	63G-POBTU	40 CFR Part 63, Subpart G	No changing attributes.
GRPPOBTU	TREATMENT PROCESS	T2001, T2002, T2003, T2004, T2005, TK4101, TK4102, TK4103, TK4104, TK4105	63VVV	40 CFR Part 63, Subpart VVV	No changing attributes.
MLS	WASTEWATER UNITS	N/A	R5140-MLS	30 TAC Chapter 115, Industrial Wastewater	No changing attributes.
MLS	TREATMENT PROCESS	N/A	63G-MLS	40 CFR Part 63, Subpart G	No changing attributes.
MLS	TREATMENT PROCESS	N/A	63VVV	40 CFR Part 63, Subpart VVV	No changing attributes.
POLYMERR	STORAGE TANKS/VESSELS	N/A	R5110-POLYMER	30 TAC Chapter 115, Storage of VOCs	No changing attributes.

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BSPIPE	EU	R5140-BSPIPE	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148	The wastewater component shall meet the specified control requirements.	[G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(H) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148	[G]§ 115.142(1)(H) § 115.144(3)(H) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BSPIPE	PRO	63G-BSPIPE	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.138(g) [G]§ 63.132(f) [G]§ 63.138(k) § 63.140(a) § 63.140(b) § 63.140(c) § 63.144(a) § 63.145(g)(2)	Required mass removal (RMR) option shall be achieved for sources as specified. The owner or operator shall comply with paragraphs §63.138(g)(1) through §63.138(g)(4) of this section.	§ 63.138(j)(2) § 63.143(b) § 63.143(c) § 63.143(g) § 63.145(a)(1) § 63.145(a)(5) [G]§ 63.145(a)(6) § 63.145(a)(8) § 63.145(a)(9)(i) [G]§ 63.145(a)(9)(ii) § 63.145(f)(1) § 63.145(f)(2) § 63.145(f)(5) § 63.145(g) § 63.145(g)(1) § 63.145(g)(2) § 63.145(h) § 63.145(h)(2) § 63.145(h)(2)(i) § 63.145(h)(2)(ii)	§ 63.147(b) § 63.147(b)(4) § 63.147(b)(7) § 63.147(e) [G]§ 63.152(a) [G]§ 63.152(f)	§ 63.143(c) § 63.146(a) § 63.146(b)(2) § 63.146(b)(4) § 63.146(b)(5) § 63.146(b)(6) [G]§ 63.146(b)(8) § 63.146(b)(9) § 63.146(b)(9)(ii) [G]§ 63.146(d) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) § 63.151(e)(3) § 63.151(e)(5) § 63.151(f) § 63.151(f)(1) § 63.151(f)(2) § 63.151(f)(3) § 63.151(h) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(3)(ii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
BSPPIPE	PRO	63VVV	112(B) HAPS	40 CFR Part 63, Subpart VVV	§ 63.1583(a)	The emission points and control requirements for an existing industrial POTW treatment plant are specified in the appropriate NESHAP(s) for the industrial user(s) (see §63.1582).	§ 63.1585(a) § 63.1591(b)	§ 63.1585(a) § 63.1591(b)	§ 63.1585(a) § 63.1591(b)
GRPPOBTU	EU	R5140- POBTU	VOC	30 TAC Chapter 115, Industrial Wastewater	[G]§ 115.142(3) § 115.142 [G]§ 115.148	In the Beaumont-Port Arthur and Bexar County areas, and after December 31, 2002 in the Houston-Galveston-Brazoria area, each properly operated biotreatment unit shall meet the specified requirements. §115.142(3)(A)-(B)	§ 115.144(4) § 115.144(4)(A) § 115.144(4)(B) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148 ** See Alternative Requirements	§ 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPPOBTU	PRO	63G-POBTU	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.138(g) [G]§ 63.132(f) [G]§ 63.138(k) § 63.140(a) § 63.140(b) § 63.140(c) § 63.144(a) § 63.145(g)(2)	Required mass removal (RMR) option shall be achieved for sources as specified. The owner or operator shall comply with paragraphs §63.138(g)(1) through §63.138(g)(4) of this section.	§ 63.138(j)(2) § 63.143(b) § 63.143(c) § 63.143(g) § 63.145(a)(1) § 63.145(a)(5) [G]§ 63.145(a)(6) § 63.145(a)(8) § 63.145(a)(9)(i) [G]§ 63.145(a)(9)(ii) § 63.145(f)(1) § 63.145(f)(2) § 63.145(f)(5) § 63.145(g) § 63.145(g)(1) § 63.145(g)(2) § 63.145(h) § 63.145(h)(2) § 63.145(h)(2)(i) § 63.145(h)(2)(ii)	§ 63.147(b) § 63.147(b)(4) § 63.147(b)(7) § 63.147(e) [G]§ 63.152(a) [G]§ 63.152(f)	§ 63.143(c) § 63.146(a) § 63.146(b)(2) § 63.146(b)(4) § 63.146(b)(5) § 63.146(b)(6) [G]§ 63.146(b)(8) § 63.146(b)(9) § 63.146(b)(9)(ii) [G]§ 63.146(d) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) § 63.151(e)(3) § 63.151(e)(5) § 63.151(f) § 63.151(f)(1) § 63.151(f)(2) § 63.151(f)(3) § 63.151(h) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(3)(ii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
GRPPOBTU	PRO	63VVV	112(B) HAPS	40 CFR Part 63, Subpart VVV	§ 63.1583(a)	The emission points and control requirements for an existing industrial POTW treatment plant are specified in the appropriate NESHAP(s) for the industrial user(s) (see §63.1582).	§ 63.1585(a) § 63.1591(b)	§ 63.1585(a) § 63.1591(b)	§ 63.1585(a) § 63.1591(b)
MLS	EU	R5140- MLS	VOC	30 TAC Chapter 115, Industrial Wastewater	§ 115.142(1) § 115.142 § 115.142(1)(A) § 115.142(1)(B) § 115.142(1)(C) § 115.142(1)(E) § 115.142(1)(G) [G]§ 115.142(1)(H) [G]§ 115.148	The wastewater component shall meet the specified control requirements.	[G]§ 115.142(1)(H) [G]§ 115.144(1) § 115.144(3)(H) § 115.144(5) § 115.145 § 115.145(1) § 115.145(10) [G]§ 115.145(2) [G]§ 115.145(3) § 115.145(4) § 115.145(5) § 115.145(6) § 115.145(7) § 115.145(9) [G]§ 115.148 ** See Alternative Requirements	[G]§ 115.142(1)(H) § 115.144(3)(H) § 115.146(1) § 115.146(2) § 115.146(3) § 115.146(4)	None

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
MLS	PRO	63G-MLS	112(B) HAPS	40 CFR Part 63, Subpart G	§ 63.138(g) [G]§ 63.132(f) [G]§ 63.138(k) § 63.140(a) § 63.140(b) § 63.140(c) § 63.144(a) § 63.145(g)(2)	Required mass removal (RMR) option shall be achieved for sources as specified. The owner or operator shall comply with paragraphs §63.138(g)(1) through §63.138(g)(4) of this section.	§ 63.138(j)(2) § 63.143(b) § 63.143(c) § 63.143(g) § 63.145(a)(1) § 63.145(a)(5) [G]§ 63.145(a)(6) § 63.145(a)(8) § 63.145(a)(9)(i) [G]§ 63.145(a)(9)(ii) § 63.145(f)(1) § 63.145(f)(2) § 63.145(f)(5) § 63.145(g) § 63.145(g)(1) § 63.145(g)(2) § 63.145(h) § 63.145(h)(2) § 63.145(h)(2)(i) § 63.145(h)(2)(ii)	§ 63.147(b) § 63.147(b)(4) § 63.147(b)(7) § 63.147(e) [G]§ 63.152(a) [G]§ 63.152(f)	§ 63.143(c) § 63.146(a) § 63.146(b)(2) § 63.146(b)(4) § 63.146(b)(5) § 63.146(b)(6) [G]§ 63.146(b)(8) § 63.146(b)(9) § 63.146(b)(9)(ii) [G]§ 63.146(d) [G]§ 63.151(b) § 63.151(e) [G]§ 63.151(e)(1) § 63.151(e)(2) § 63.151(e)(3) § 63.151(e)(5) § 63.151(f) § 63.151(f)(1) § 63.151(f)(2) § 63.151(f)(3) § 63.151(h) [G]§ 63.151(j) [G]§ 63.152(a) § 63.152(b) [G]§ 63.152(b)(1) [G]§ 63.152(b)(2) § 63.152(b)(4) § 63.152(c)(1) § 63.152(c)(3) § 63.152(c)(3)(i) § 63.152(c)(3)(ii) § 63.152(c)(4)(ii) [G]§ 63.152(c)(6)

Applicable Requirements Summary

Unit Group Process ID No.	Unit Group Process Type	SOP Index No.	Pollutant	State Rule or Federal Regulation Name	Emission Limitation, Standard or Equipment Specification Citation	Textual Description (See Special Term and Condition 1.B.)	Monitoring And Testing Requirements	Recordkeeping Requirements (30 TAC § 122.144)	Reporting Requirements (30 TAC § 122.145)
MLS	PRO	63VVV	112(B) HAPS	40 CFR Part 63, Subpart VVV	§ 63.1583(a)	The emission points and control requirements for an existing industrial POTW treatment plant are specified in the appropriate NESHAP(s) for the industrial user(s) (see §63.1582).	§ 63.1585(a) § 63.1591(b)	§ 63.1585(a) § 63.1591(b)	§ 63.1585(a) § 63.1591(b)
POLYMERR	EU	R5110- POLYMER	VOC	30 TAC Chapter 115, Storage of VOCs	§ 115.111(a)(1)	Except as provided in § 115.118, a storage tank storing VOC with a true vapor pressure less than 1.5 psia is exempt from the requirements of this division.	[G]§ 115.117	§ 115.118(a)(1) § 115.118(a)(5) § 115.118(a)(7)	None

Permit Shield

Permit Shield 20

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
BSPIPE	N/A	40 CFR Part 63, Subpart DD	Not one of the waste management operations or recovery operations listed in paragraphs §63.680(a)(2)(i) through (a)(2)(vi).
GRPCHEMTNK	BISULFITETK1, BISULFITETK2, BLCHTK1, BLCHTK2, BLCHTK3, BLCHTK4, BLCHTK5, NH4OHTK2, NH4OHTK3	30 TAC Chapter 115, Storage of VOCs	Not a VOC storage tank.
GRPCHEMTNK	BISULFITETK1, BISULFITETK2, BLCHTK1, BLCHTK2, BLCHTK3, BLCHTK4, BLCHTK5, NH4OHTK2, NH4OHTK3	40 CFR Part 60, Subpart Kb	Not a VOC storage tank.
COOLTWER	N/A	30 TAC Chapter 115, HRVOC Cooling Towers	Cooling tower unit does not emit or have the potential to emit a highly-reactive volatile organic compound, as defined in §115.10 of this title.
COOLTWER	N/A	40 CFR Part 63, Subpart Q	Does not meet the definition of industrial process cooling tower.
GRPCLNSTRM	CHANNEL, POND3, POND6	30 TAC Chapter 115, Industrial Wastewater	The wastewater streams do not satisfy the definition of "Affected volatile organic compounds (VOC) wastewater stream".
GRPCLNSTRM	CHANNEL, POND3, POND6	30 TAC Chapter 115, Vent Gas Controls	As per 30 TAC 115.127(a)(6), since these streams are exempt from industrial wastewater provisions of Chapter 115, these streams are not subject to vent gas provisions of Chapter 115.
GRPGASTANK	T5002, T5004	30 TAC Chapter 115, Loading and Unloading of VOC	Motor vehicle fuel dispensing facilities are exempt from requirements related to Loading and Unloading of VOCs.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
GRPGASTANK	T5002, T5004	40 CFR Part 60, Subpart Kb	Design storage capacity of tank is less than 40 cubic meters.
GRPIWRE	A-PLANT, BLCLCONT, BPBASN601, BPBASN602, BPBASN603, BPBASN604, BPBASN605, BPBASN606, BPRESS810, BPRESS820, BPRESS830, BPRESS840, CHLORINESP, CHLORINETK, CLARIFIER7, CLRIFIER1, CLRIFIER2, CLRIFIER3, CLRIFIER4, CLRIFIER5, CLRIFIER6, FINALDCHNL, POND7, POND9, SMCHNL, SPLITRBX	30 TAC Chapter 115, Industrial Wastewater	The wastewater streams do not satisfy the definition of "Affected volatile organic compounds (VOC) wastewater stream".
GRPIWRE	A-PLANT, BLCLCONT, BPBASN601, BPBASN602, BPBASN603, BPBASN604, BPBASN605, BPBASN606, BPRESS810, BPRESS820, BPRESS830, BPRESS840, CHLORINESP, CHLORINETK, CLARIFIER7, CLRIFIER1, CLRIFIER2, CLRIFIER3, CLRIFIER4, CLRIFIER5, CLRIFIER6, FINALDCHNL, POND7, POND9, SMCHNL, SPLITRBX	40 CFR Part 63, Subpart DD	Not one of the waste management operations or recovery operations listed in paragraphs §63.680(a)(2)(i) through (a)(2)(vi).
GRPPOBTU	T2001, T2002, T2003, T2004, T2005, TK4101, TK4102, TK4103, TK4104, TK4105	40 CFR Part 63, Subpart DD	Not one of the waste management operations or recovery operations listed in paragraphs §63.680(a)(2)(i) through (a)(2)(vi).
GRPPOND	POND4, POND5, POND8	30 TAC Chapter 115, Industrial Wastewater	Wet weather retention basins are exempt from 30 TAC Chapter 115, Industrial Wastewater.

Permit Shield

The Executive Director of the TCEQ has determined that the permit holder is not required to comply with the specific regulation(s) identified for each emission unit, group, or process in this table.

Unit / Group / Process ID No.	Group / Inclusive Units	Regulation	Basis of Determination
GRPPOND	POND4, POND5, POND8	40 CFR Part 63, Subpart DD	Not one of the waste management operations or recovery operations listed in paragraphs §63.680(a)(2)(i) through (a)(2)(vi).
MLS	N/A	40 CFR Part 63, Subpart DD	Not one of the waste management operations or recovery operations listed in paragraphs §63.680(a)(2)(i) through (a)(2)(vi).
GRPPAINT	PAINTING1, PAINTING3	30 TAC Chapter 115, Surface Coating Operations	GCA does not conduct surface coating operations as specified in § 115.420(a).
POND2	N/A	30 TAC Chapter 115, Industrial Wastewater	Wet weather retention basins are exempt from 30 TAC Chapter 115, Industrial Wastewater.
POND2	N/A	40 CFR Part 63, Subpart DD	Not one of the waste management operations or recovery operations listed in paragraphs §63.680(a)(2)(i) through (a)(2)(vi).
RTO1/2	N/A	40 CFR Part 63, Subpart VVV	RTOs are not an affected source since GCA uses wastewater treatment units to comply with 40 CFR 63, Subpart VVV requirements.
T5005	N/A	30 TAC Chapter 115, Loading and Unloading of VOC	Motor vehicle fuel dispensing facilities are exempt from requirements related to loading and unloading of VOCs.
T5005	N/A	40 CFR Part 60, Subpart Kb	Design storage capacity of tank is less than 40 cubic meters.

New Source Review Authorization References

New Source Review Authorization References 24

New Source Review Authorization References by Emission Unit 25

New Source Review Authorization References

The New Source Review authorizations listed in the table below are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Title 30 TAC Chapter 116 Permits, Special Permits, and Other Authorizations (Other Than Permits By Rule, PSD Permits, or NA Permits) for the Application Area.	
Authorization No.: 40782	Issuance Date: 02/28/2020
Permits By Rule (30 TAC Chapter 106) for the Application Area	
Number: 53	Version No./Date: 09/12/1989
Number: 106.227	Version No./Date: 09/04/2000
Number: 106.244	Version No./Date: 09/04/2000
Number: 106.261	Version No./Date: 11/01/2003
Number: 106.262	Version No./Date: 11/01/2003
Number: 106.263	Version No./Date: 11/01/2001
Number: 106.265	Version No./Date: 09/04/2000
Number: 106.373	Version No./Date: 09/04/2000
Number: 106.452	Version No./Date: 09/04/2000
Number: 106.454	Version No./Date: 11/01/2001
Number: 106.472	Version No./Date: 09/04/2000
Number: 106.473	Version No./Date: 09/04/2000
Number: 106.511	Version No./Date: 09/04/2000
Number: 106.532	Version No./Date: 09/04/2000
Number: 106.533	Version No./Date: 09/04/2000

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
A-PLANT	A-PLANT	40782
BISULFITETK1	SODIUM BISULFITE TANK #T9201	106.472/09/04/2000, 106.532/09/04/2000
BISULFITETK2	SODIUM BISULFITE TANK #T9202	106.472/09/04/2000, 106.532/09/04/2000
BLCHTK1	BLEACH TANK 1	40782
BLCHTK2	BLEACH TANK 2	40782
BLCHTK3	BLEACH TANK 3	40782
BLCHTK4	BLEACH TANK #T9301	40782
BLCHTK5	BLEACH TANK #T9302	40782
BLCLCONT	B-PLANT CONTACT SUMP	40782, 106.262/11/01/2003 [173211]
BPBASN601	B-PLANT BASIN #601	40782, 106.262/11/01/2003 [173211]
BPBASN602	B-PLANT BASIN #602	40782, 106.262/11/01/2003 [173211]
BPBASN603	B-PLANT BASIN #603	40782, 106.262/11/01/2003 [173211]
BPBASN604	B-PLANT BASIN #604	40782, 106.262/11/01/2003 [173211]
BPBASN605	B-PLANT BASIN #605	40782, 106.262/11/01/2003 [173211]
BPBASN606	B-PLANT BASIN #606	40782, 106.262/11/01/2003 [173211]
BPRESS810	BELT PRESS #810	40782, 106.262/11/01/2003 [173211]
BPRESS820	BELT PRESS #820	40782, 106.262/11/01/2003 [173211]
BPRESS830	BELT PRESS #830	40782, 106.262/11/01/2003 [173211]
BPRESS840	BELT PRESS #840	40782, 106.262/11/01/2003 [173211]
BPIPE	BIOSAN PIPELINE	40782
CHANNEL	CLEAN STREAM CHANNEL	40782, 106.262/11/01/2003 [173211]

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
CHLORINESP	CHLORINE SUMP	40782, 106.262/11/01/2003 [173211]
CHLORINETK	CHLORINE TANK	40782, 106.262/11/01/2003 [173211]
CLARIFIER7	CLARIFIER 7	40782, 106.262/11/01/2003 [173211]
CLRIFIER1	CLARIFIER #1	40782, 106.262/11/01/2003 [173211]
CLRIFIER2	CLARIFIER #2	40782, 106.262/11/01/2003 [173211]
CLRIFIER3	CLARIFIER #3	40782, 106.262/11/01/2003 [173211]
CLRIFIER4	CLARIFIER #4	40782, 106.262/11/01/2003 [173211]
CLRIFIER5	CLARIFIER #5	40782, 106.262/11/01/2003 [173211]
CLRIFIER6	CLARIFIER #6	40782, 106.262/11/01/2003 [173211]
COOLTWER	COOLING TOWER	40782, 106.262/11/01/2003 [173211]
FINALDCHNL	FINAL D CHANNEL	40782, 106.262/11/01/2003 [173211]
MLS	MAIN LIFT STATION	40782
NH4OHTK2	PHOSPHORIC ACID TANK	40782
NH4OHTK3	AMMONIUM HYDROXIDE TANK #T250	106.472/09/04/2000
PAINTING1	PAINTING, DEGREASING, AND PRINTING MATERIAL	106.263/11/01/2001
PAINTING3	REPAIRS AND MAINTENANCE	106.263/11/01/2001
POLYMERR	RAW POLYMER TANK	40782
POND2	POND #2	40782, 106.262/11/01/2003 [173211]
POND3	POND #3	40782, 106.262/11/01/2003 [173211]
POND4	POND #4	40782, 106.262/11/01/2003 [173211]
POND5	POND #5	40782, 106.262/11/01/2003 [173211]

New Source Review Authorization References by Emissions Unit

The following is a list of New Source Review (NSR) authorizations for emission units listed elsewhere in this operating permit. The NSR authorizations are applicable requirements under 30 TAC Chapter 122 and enforceable under this operating permit.

Unit/Group/Process ID No.	Emission Unit Name/Description	New Source Review Authorization**
POND6	POND #6	40782, 106.262/11/01/2003 [173211]
POND7	POND #7	40782, 106.262/11/01/2003 [173211]
POND8	POND #8	40782, 106.262/11/01/2003 [173211]
POND9	POND #9	40782, 106.262/11/01/2003 [173211]
RTO1/2	REGENERATIVE THERMAL OXIDIZERS	40782, 106.261/11/01/2003 [160994], 106.262/11/01/2003 [173211]
SMCHNL	SMALL CHANNEL	40782, 106.262/11/01/2003 [173211]
SPLITRBX	SPLITTER BOX	40782
T2001	AERATION TANK #2001	40782
T2002	AERATION TANK #2002	40782
T2003	AERATION TANK #2003	40782
T2004	AERATION TANK #2004	40782
T2005	AERATION TANK #2005	40782
T5002	GASOLINE TANK #1	53/09/12/1989
T5004	GASOLINE TANK #3	53/09/12/1989
T5005	DIESEL TANK #1	53/09/12/1989
TK4101	AERATION TANK #4101	40782, 106.262/11/01/2003 [173211]
TK4102	AERATION TANK #4102	40782, 106.262/11/01/2003 [173211]
TK4103	AERATION TANK #4103	40782, 106.262/11/01/2003 [173211]
TK4104	AERATION TANK #4104	40782, 106.262/11/01/2003 [173211]
TK4105	AERATION TANK #4105	40782, 106.262/11/01/2003 [173211]

**This column may include Permit by Rule (PBR) numbers and version dates, PBR Registration numbers in brackets, Standard Permit Registration numbers, Minor NSR permit numbers, and Major NSR permit numbers.

Alternative Requirement

Alternative Requirement..... 30

Barry R. McBee, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Jeffrey A. Saitas, *Executive Director*



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

November 12, 1998

Mr. Dick Brown
General Manager
Gulf Coast Waste Disposal Authority
910 Bay Area Boulevard
Houston, Texas 77058

Subject: Bayport Wastewater Treatment Facility Volatile Organic Compound (VOC)
Emissions Control Compliance Determination under Title 30 Texas Administrative
Code, Chapter 115, Section 115.142(1)(D)

Dear Mr. Brown:

This letter is in reference to a report of October 30, 1997 and subsequent supplements of January 14, May 5 and September 21, 1998. The report and supplements were submitted concerning a flux chamber testing conducted per the Texas Natural Resource Conservation Commission's (TNRCC) request to verify the modeling results which indicated that the control device/aeration tanks removes a minimum of 90 percent (%) of the VOC emissions from the Main Lift Station. Based on the results of modeling and flux chamber test, we believe that the proposed control device is acceptable to meet the requirements in Section 115.142(1)(D) under the conditions represented in the report.

Pursuant to Section 115.142(1)(D), any applicable wastewater component vent gas shall be routed through a vapor recovery system which maintains a minimum control efficiency of 90%. Gulf Coast Waste Disposal Authority (Gulf Coast) proposed to collect the emissions from the headspace of the Main Lift Station and vent the emissions to the second-step aeration system basins. By using the design parameters and projected influent loadings, the control efficiency of the proposed method is calculated to be above 90%. A subsequent flux chamber test verified the modeling results.

As part of the approval, Gulf Coast must agree to the following:

1. The emissions from the Main Lift Station shall be routed to the second step aeration basins by two blowers (one is a backup). The blowers are equipped with alarms. The operation of the blowers shall be monitored and recorded continuously. The records shall be maintained on site for at least two years.

P.O. Box 13087 • Austin, Texas 78711-3087 • 512/239-1000 • Internet address: www.tnrcc.state.tx.us

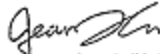
printed on recycled paper using soy-based ink

Mr. Dick Brown
Page 2
November 12, 1998

2. The maximum wastewater flow rate to the Main Lift Station shall not exceed 20.9 MGD on a daily average basis. The flow rate shall be monitored and recorded daily. The flow rate records shall be maintained on site for at least two years.
3. The maximum air flow rate to the second step aeration tanks shall not exceed 6,800 scfm per tank on a daily average basis. The air flow rate shall be monitored and recorded daily. The air flow rate records shall be maintained on site for at least two years.
4. The minimum MLSS concentration in the first and the second aeration tanks shall not be less than 1,000 and 3,000 mg/l respectively on a daily average basis. The MLSS concentration shall be monitored and recorded daily. The MLSS concentration records shall be maintained on site for at least two years.
5. Gulf Coast may apply to the TNRCC to change the daily average flow rate and daily average MLSS limitations. The changes may be implemented only after a written approval from the TNRCC.
6. The TNRCC reserves the right to reevaluate the compliance of the control device under 115.142(1)(D) for a good cause at a later date.

Should you have any questions about this letter, please feel free to contact me at the above letterhead address, MC-171, or at (512) 239-1823.

Sincerely,



Jean Xu
Engineering Services Team, Air Section
Enforcement Division

JXU/db

cc: Ms. Phyllis Frank, Parson Engineering Science, Incorporated, Houston, Texas
Ms. Elaine Manning, U. S. Environmental Protection Agency, Research Triangle Park, North
Carolina

Robert J. Huston, Chairman
R. B. "Ralph" Marques, Commissioner
John M. Baker, Commissioner
Jeffrey A. Saltas, Executive Director



TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

August 31, Fax Transmittal Memo

of Pages 2

Mr. Dick Brown
General Manager
Gulf Coast Waste Disposal Authority
910 Bay Area Boulevard
Houston, Texas 77058

To: Denise DeLuigi	From: Jean Y4
Co.:	Co.:
Dept.:	Phone #
Fax # 281-488-3331	Fax #

08/31

Subject: Approval of Modification to Operating Conditions of Volatile Organic Compound (VOC) Emissions Control Device at Bayport Wastewater Treatment Facility

Dear Mr. Brown:

This is in response to a request and supporting document, dated August 19, 1999, concerning modification to operating conditions of VOC emissions control device/aeration tanks at Bayport Wastewater Treatment Facility of Gulf Coast Waste Disposal Authority (GCA). Specifically, GCA requested to increase air flow rate from 6800 standard cubic foot per minute (scfm) to 10,000 scfm for each of the second-step aeration basins.

After a review of the modeling results presented in your request, we found that the VOC control device/aerations tanks removes a minimum of 90% of VOC emissions from the Main Lift Station as required in Section 115.142(1)(D). Your request is approved with the following modified stipulations:

1. The emissions from the Main Lift Station shall be routed to the second step aeration basins by two blowers (one is a backup). The blowers are equipped with alarms. The operation of the blowers shall be monitored and recorded continuously. The records shall be maintained on site for at least two years.
2. The maximum wastewater flow rate to the Main Lift Station shall not exceed 20.9 million gallons per day on a daily average basis. The flow rate shall be monitored and recorded daily. The flow rate records shall be maintained on site for at least two years.
3. The maximum air flow rate to the second step aeration tanks shall not exceed 10,000 scfm per tank on a daily average basis. The air flow rate shall be monitored and recorded daily.

P.O. Box 13087 • Austin, Texas 78711-3087 • 512/239-1000 • Internet address: www.tncc.state.tx.us

printed on recycled paper using soy-based ink

Mr. Dick Brown
Page 2
August 31, 1999

The air flow rate records shall be maintained on site for at least two years.

4. The minimum mixed liquor suspended solids (MLSS) concentration in the first and the second aeration tanks shall not be less than 1,000 and 3,000 milligrams per liter respectively on a daily average basis. The MLSS concentration shall be monitored and recorded daily. The MLSS concentration records shall be maintained on site for at least two years.
5. Gulf Coast may apply to the Texas Natural Resource Conservation Commission (TNRCC) to change the daily average flow rate and daily average MLSS limitations. The changes may be implemented only after a written approval from the TNRCC.
6. The TNRCC reserves the right to reevaluate the compliance of the control device under 115.142(1)(D) for a good cause at a later date.

Should you have any questions about this letter, please feel free to contact me at the letterhead address, MC-171, or at (512) 239-1823.

Sincerely,



Jean Xu, P.E.
Engineering Services Team
Enforcement Division

JXU/db

cc: Ms. Phyllis Frank, Parson Engineering Science, Incorporated, Houston, Texas

Appendix A

Acronym List 35

Acronym List

The following abbreviations or acronyms may be used in this permit:

ACFM	.....	actual cubic feet per minute
AMOC	.....	alternate means of control
ARP	.....	Acid Rain Program
ASTM	.....	American Society of Testing and Materials
B/PA	.....	Beaumont/Port Arthur (nonattainment area)
CAM	.....	Compliance Assurance Monitoring
CD	.....	control device
CEMS	.....	continuous emissions monitoring system
CFR	.....	Code of Federal Regulations
COMS	.....	continuous opacity monitoring system
CVS	.....	closed vent system
D/FW	.....	Dallas/Fort Worth (nonattainment area)
EP	.....	emission point
EPA	.....	U.S. Environmental Protection Agency
EU	.....	emission unit
FCAA Amendments	.....	Federal Clean Air Act Amendments
FOP	.....	federal operating permit
gr/100 scf	.....	grains per 100 standard cubic feet
HAP	.....	hazardous air pollutant
H/G/B	.....	Houston/Galveston/Brazoria (nonattainment area)
H ₂ S	.....	hydrogen sulfide
ID No.	.....	identification number
lb/hr	.....	pound(s) per hour
MACT	.....	Maximum Achievable Control Technology (40 CFR Part 63)
MMBtu/hr	.....	Million British thermal units per hour
NA	.....	nonattainment
N/A	.....	not applicable
NADB	.....	National Allowance Data Base
NESHAP	.....	National Emission Standards for Hazardous Air Pollutants (40 CFR Part 61)
NO _x	.....	nitrogen oxides
NSPS	.....	New Source Performance Standard (40 CFR Part 60)
NSR	.....	New Source Review
ORIS	.....	Office of Regulatory Information Systems
Pb	.....	lead
PBR	.....	Permit By Rule
PEMS	.....	predictive emissions monitoring system
PM	.....	particulate matter
ppmv	.....	parts per million by volume
PRO	.....	process unit
PSD	.....	prevention of significant deterioration
psia	.....	pounds per square inch absolute
RO	.....	Responsible Official
SIP	.....	state implementation plan
SO ₂	.....	sulfur dioxide
TCEQ	.....	Texas Commission on Environmental Quality
TSP	.....	total suspended particulate
TVP	.....	true vapor pressure
U.S.C.	.....	United States Code
VOC	.....	volatile organic compound