

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY



NOTICE OF APPLICATION AND PRELIMINARY DECISION FOR TPDES PERMIT FOR INDUSTRIAL WASTEWATER

RENEWAL

Permit No. WQ0005211000

APPLICATION AND PRELIMINARY DECISION. General Polymer Services, LLC, 4724 Decker Drive, Baytown, Texas 77520, which operates Decker North Polymer Facility, a polyolefin compounding plant, has applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005211000, which authorizes the discharge of process wastewater at a daily average flow not to exceed 5,000 gallons per day via Outfall 001 and stormwater at an intermittent and flow-variable basis via Outfall 002. The TCEQ received this application on February 3, 2020.

The facility is located at 4724 Decker Drive, in the City of Baytown, Harris County, Texas 77520. This link to an electronic map of the site or facility's general location is provided as a public courtesy and is not part of the application or notice. For the exact location, refer to the application.

<https://tceq.maps.arcgis.com/apps/webappviewer/index.html?id=db5bac44afbc468bbddd36of8168250f&marker=-95.01749%2C29.776175&level=12>

The effluent is discharged via both outfalls to Harris County Flood Control District (HCFCD) ditch O111-000-000, thence to Goose Creek, thence to Tabbs Bay in Segment No. 2426 of the Bays and Estuaries. The unclassified receiving water uses are minimal aquatic life use for HCFCD ditch O111-000-000, intermediate aquatic life use for Goose Creek (upstream of Baker Street), and limited aquatic life use for Goose Creek (downstream of Baker Street). The designated uses for Segment No. 2426 are primary contact recreation and high aquatic life use.

The TCEQ executive director has completed the technical review of the application and prepared a draft permit. The draft permit, if approved, would establish the conditions under which the facility must operate. The executive director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The permit application, executive director's preliminary decision, and draft permit are available for viewing and copying online at <http://www.polymerservices.com/category/public-notice/>.

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting about this application. The purpose of a public meeting is to provide the opportunity to submit written or oral comment or to ask questions about the application. Generally, the TCEQ will hold a public meeting if the executive director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for public comments, the executive director will consider the comments and prepare a response to all relevant and material, or significant public comments. **The response to comments, along with the executive director's decision on the application, will be mailed to everyone who submitted public comments or who requested to be on a mailing list for this application. If comments are received, the mailing will also provide instructions for requesting a contested case hearing or reconsideration of the executive director's decision.** A contested case hearing is a legal proceeding similar to a civil trial in a state district court.

TO REQUEST A CONTESTED CASE HEARING, YOU MUST INCLUDE THE FOLLOWING ITEMS IN YOUR REQUEST: your name, address, phone number; applicant's name and proposed permit number; the location and distance of your property/activities relative to the proposed facility; a specific description of how you would be adversely affected by the facility in a way not common to the general public; a list of all disputed issues of fact that you submit during the comment period; and the statement "[I/we] request a contested case hearing." If the request for contested case hearing is filed on behalf of a group or association, the request must designate the group's representative for receiving future correspondence; identify by name and physical address an individual member of the group who would be adversely affected by the proposed facility or activity; provide the information discussed above regarding the affected member's location and distance from the facility or activity; explain how and why the member would be affected; and explain how the interests the group seeks to protect are relevant to the group's purpose.

Following the close of all applicable comment and request periods, the executive director will forward the application and any requests for reconsideration or for a contested case hearing to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. **If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period. TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.**

EXECUTIVE DIRECTOR ACTION. The executive director may issue final approval of the application unless a timely contested case hearing request or a timely request for reconsideration is filed. If a timely hearing request or request for reconsideration is filed, the executive director will not issue final approval of the permit and will forward the application and requests to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

MAILING LIST. If you submit public comments, a request for a contested case hearing or a reconsideration of the executive director's decision, you will be added to the mailing list for this specific application to receive future public notices mailed by the Office of the Chief Clerk. In addition, you may request to be added to: (1) the permanent list for a specific applicant name and permit number; and (2) the mailing list for a specific county. If you wish to be placed on the permanent and the county mailing list, clearly specify which list(s) and send your request to TCEQ Office of the Chief Clerk at the address below.

All written public comments and public meeting requests must be submitted to the Office of the Chief Clerk, MC 105, TCEQ, P.O. Box 13087, Austin, TX 78711-3087 or electronically at www14.tceq.texas.gov/epic/eComment/ within 30 days from the date of newspaper publication of this notice.

INFORMATION AVAILABLE ONLINE. For details about the status of the application, visit the Commissioners' Integrated Database at www.tceq.texas.gov/goto/cid. Search the database using the permit number for this application, which is provided at the top of this notice.

AGENCY CONTACTS AND INFORMATION. Public comments and requests must be submitted either electronically at www14.tceq.texas.gov/epic/eComment/, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address, and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, toll free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from General Polymer Services, LLC at the address stated above or by calling Mr. David Danese at 281-424-4673.

Issued: July 29, 2020

STATEMENT OF BASIS/TECHNICAL SUMMARY AND
EXECUTIVE DIRECTOR'S PRELIMINARY DECISION

DESCRIPTION OF APPLICATION

Applicant: General Polymer Services, LLC; Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0005211000 (EPA I.D. No. TX0137359)

Regulated activity: Industrial wastewater permit

Type of application: Renewal

Request: Renewal without changes

Authority: Federal Clean Water Act (CWA) §402; Texas Water Code (TWC) §26.027; 30 Texas Administrative Code (TAC) Chapter 305, Subchapters C-F, and Chapters 307 and 319; commission policies; and Environmental Protection Agency (EPA) guidelines

EXECUTIVE DIRECTOR RECOMMENDATION

The executive director has made a preliminary decision that this permit, if issued, meets all statutory and regulatory requirements. The draft permit will expire at midnight, five years from the date of permit issuance according to the requirements of 30 TAC §305.127(1)(C)(i).

REASON FOR PROJECT PROPOSED

The applicant applied to the Texas Commission on Environmental Quality (TCEQ) for a renewal of its existing permit.

PROJECT DESCRIPTION AND LOCATION

The applicant currently operates Decker North Polymer Facility, a polyolefin compounding plant. Polyethylene and/or polypropylene are mixed with additives and fillers, melted, and extruded to form a polyolefin compound.

Raw water is obtained from the City of Baytown (TX1010003) and then routed to an underwater pelletizing system that is used to cool the extruded polyolefin compound and form compounded polyolefin pellets. The use of water obtained from a public water system for cooling purposes does not constitute the use of a cooling water intake structure; therefore, the facility is not subject to Section 316(b) of the CWA or 40 CFR Part 125, Subpart J. The process has an internal recirculating system. Treatment is limited to the physical separation of the product from the cooling/finishing water through use of a hydrosieve. Domestic wastewater is routed off-site to either the City of Baytown's Central District Wastewater Treatment Plant (WQ0010395002) or Northeast District Wastewater Treatment Plant (WQ0010395010). The draft permit does not authorize the discharge of domestic wastewater.

The facility is located at 4724 Decker Drive, in the City of Baytown, Harris County, Texas.

Discharge Route and Designated Uses

The effluent is discharged via both outfalls to Harris County Flood Control District (HCFCD) ditch O111-000-000, thence to Goose Creek, thence to Tabbs Bay in Segment No. 2426 of the Bays and Estuaries. The unclassified receiving water uses are minimal aquatic life use for HCFCD ditch O111-000-000, intermediate aquatic life use for Goose Creek (upstream of Baker Street), and limited aquatic life use for Goose Creek (downstream of Baker Street). The designated uses for Segment No. 2426 are primary contact recreation and high aquatic life use. The effluent limits in the draft permit

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will maintain and protect the existing instream uses. All determinations are preliminary and subject to additional review and revisions.

Endangered Species Review

The discharge from this permit is not expected to have an effect on any federal endangered or threatened aquatic or aquatic-dependent species or proposed species or their critical habitat. This determination is based on the United States Fish and Wildlife Service's (USFWS's) biological opinion on the State of Texas authorization of the TPDES (September 14, 1998; October 21, 1998 update). To make this determination for TPDES permits, TCEQ and the EPA only considered aquatic or aquatic-dependent species occurring in watersheds of critical concern or high priority as listed in Appendix A of the USFWS's biological opinion. The determination is subject to reevaluation due to subsequent updates or amendments to the biological opinion. The permit does not require EPA review with respect to the presence of endangered or threatened species.

Impaired Water Bodies

Segment No. 2426 is currently listed on the state's inventory of impaired and threatened waters, the 2018 CWA §303(d) list. The listings are for dioxin and polychlorinated biphenyls (PCBs) in edible tissue throughout the entirety of the bay (Assessment Unit 2426_01). The draft permit is a renewal of an existing authorization to discharge process wastewater (water used for cooling extruded polymers) and stormwater. Dioxin and PCBs are not expected to present. Discharge of process wastewater from Outfall 001 has not commenced, however, the draft permit requires sampling and pollutant analysis of the effluent once discharge occurs.

Completed Total Maximum Daily Loads (TMDLs)

There is one completed TMDL for Segment No. 2426. Segment No. 2426 is included in the agency's document *Fourteen Total Maximum Daily Loads for Nickel in the Houston Ship Channel System* (TMDL Project No. 1). The discharge authorized in the draft permit is included in the overall waste load allocation. The TMDL indicates that the water quality criteria for dissolved nickel are generally being met in the Houston Ship Channel and a specific limit for nickel is not recommended for this facility.

Dissolved Oxygen

Only Outfall 001 is expected to discharge wastewater with significant concentrations of oxygen-demanding constituents. A dissolved oxygen analysis of the discharge from Outfall 001 was conducted for the existing permit using a calibrated QUAL-TX model as documented in the *Waste Load Evaluation WLE-1 for the Houston Ship Channel System* (September 2006). Based on model results, the daily average technology-based limit of 0.542 lbs/day BOD₅ at Outfall 001 were predicted to be adequate to maintain the dissolved oxygen (DO) levels above the criteria stipulated by the Standards Implementation Team for HCFCF ditch O111-000-000 (2.0 mg/L DO), Goose Creek (downstream of Baker Street; 3.0 mg/L DO), and Goose Creek (upstream of Baker Street; 4.0 mg/L DO). Since this permit action is a renewal with no changes, an expedited review was conducted and the existing BOD₅ limits are carried forward in the draft permit.

SUMMARY OF EFFLUENT DATA

Self-reporting data is not available because the facility has not reported discharging.

DRAFT PERMIT CONDITIONS

The draft permit authorizes the discharge of process wastewater at a daily average flow not to exceed 5,000 gallons per day via Outfall 001 and stormwater at an intermittent and flow-variable basis via Outfall 002.

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Effluent limitations are established in the draft permit as follows:

<i>Outfall</i>	<i>Pollutant</i>	<i>Daily Average lbs/day</i>	<i>Daily Maximum lbs/day</i>
001	Flow	0.005 MGD	Report MGD
	BOD ₅	0.542	1.08
	Oil and Grease	0.625	1.21
	Total Suspended Solids (TSS)	0.417	0.792
	pH, in Standard Units (SU)	6.0 SU, min	9.0 SU

<i>Outfall</i>	<i>Pollutant</i>	<i>Daily Average mg/L</i>	<i>Daily Maximum mg/L</i>
002	Flow	Report MGD	Report MGD
	Chemical Oxygen Demand (COD)	N/A	150
	Oil and Grease	N/A	15
	TSS	N/A	100
	pH	6.0 SU, min	9.0 SU

OUTFALL LOCATIONS

Outfall	Latitude	Longitude
001	29.777 N	95.0169 W
002	29.7769 N	95.018101 W

Technology-Based Effluent Limitations

Regulations in Title 40 of the Code of Federal Regulations (40 CFR) require that technology-based limitations be placed in wastewater discharge permits based on effluent limitations guidelines, where applicable, or on best professional judgment (BPJ) in the absence of guidelines. Technology-based effluent limitations from 40 CFR Part 463 apply to the discharge of process wastewater from this facility. Specifically, the discharge of contact cooling water is subject to Subpart A - New Source Performance Standards (NSPS) promulgated at 40 CFR §463.14 and finishing water is subject to Subpart C - NSPS promulgated at 40 CFR §463.34. The discharge of stormwater via Outfall 002 is not subject to effluent limit guidelines. Effluent limits for stormwater are based on BPJ in the existing permit and are continued in the draft permit in accordance with federal antibacksliding requirements in 40 CFR §122.44(l). Development of technology-based effluent limitations is presented in Appendix A.

Water Quality-Based Effluent Limitations

Calculations of water quality-based effluent limitations for the protection of aquatic life and human health are presented in Appendix B. Aquatic life criteria established in Table 1 and human health criteria established in Table 2 of 30 TAC Chapter 307 are incorporated into the calculations, as are recommendations in the Water Quality Assessment Team's memorandum dated April 29, 2020. TCEQ practice for determining significant potential is to compare the reported analytical data from the facility against percentages of the calculated daily average water quality-based effluent limitation. Permit limitations are required when analytical data reported in the application exceeds 85 percent of the calculated daily average water quality-based effluent limitation. Monitoring and reporting is required when analytical data reported in the application exceeds 70 percent of the calculated daily average water quality-based effluent limitation.

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Data was not reported in the application for screening against the calculated water quality-based effluent limitations. Other Requirement No. 4, requiring a pollutant analysis upon discharging, has been carried forward in the draft permit.

Total Dissolved Solids (TDS), Chloride, and Sulfate Screening

Segment No. 2426, which receives the discharges from this facility, does not have criteria established for TDS, chloride, or sulfate in 30 TAC Chapter 307; therefore, no screening was performed for TDS, chloride, or sulfate in the effluent.

pH Screening

The existing permit includes pH limits of 6.0 – 9.0 SU at Outfalls 001 and 002, which discharge into an unclassified water body. Consistent with the procedures for pH screening that were submitted to EPA with a letter dated May 28, 2014, and approved by EPA in a letter dated June 2, 2014, requiring a discharge to an unclassified water body to meet pH limits of 6.0 – 9.0 standard units reasonably ensures instream compliance with *Texas Surface Water Quality Standards* pH criteria. These limits have been carried forward in the draft permit.

Whole Effluent Toxicity Testing (Biomonitoring)

Biomonitoring requirements are not included in the draft permit.

SUMMARY OF CHANGES FROM APPLICATION

No changes were made from the application.

SUMMARY OF CHANGES FROM EXISTING PERMIT

The following additional changes have been made to the draft permit.

1. Pages 3-13 were updated (May 2020 version).
2. Other Requirement No. 4 has been updated to include a more comprehensive pollutant analysis.

BASIS FOR DRAFT PERMIT

The following items were considered in developing the draft permit:

1. Application received on February 3, 2020, and additional information received on March 17, 2020.
2. Existing permits: TPDES Permit No. WQ0005211000 issued on June 15, 2017.
3. Waste Load Evaluation for Segment No. 2426.
4. TCEQ Rules.
5. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective March 1, 2018, as approved by EPA Region 6.
6. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective March 6, 2014, as approved by EPA Region 6, for portions of the 2018 standards not approved by EPA Region 6.
7. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective July 22, 2010, as approved by EPA Region 6, for portions of the 2014 standards not approved by EPA Region 6.
8. *Texas Surface Water Quality Standards* – 30 TAC §§307.1-307.10, effective August 17, 2000, and Appendix E, effective February 27, 2002, for portions of the 2010 standards not approved by EPA Region 6.

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9. *Procedures to Implement the Texas Surface Water Quality Standards (IPs)*, Texas Commission on Environmental Quality, June 2010, as approved by EPA Region 6.
10. *Procedures to Implement the Texas Surface Water Quality Standards*, Texas Commission on Environmental Quality, January 2003, for portions of the 2010 IPs not approved by EPA Region 6.
11. Memos from the Standards Implementation Team and Water Quality Assessment Team of the Water Quality Assessment Section of the TCEQ.
12. *Guidance Document for Establishing Monitoring Frequencies for Domestic and Industrial Wastewater Discharge Permits*, TCEQ Document No. 98-001.000-OWR-WQ, May 1998.
13. EPA Effluent Guidelines: 40 CFR Part 463 (NSPS). A new source determination was performed and the discharge of process wastewater is a new source as defined at 40 CFR §122.2.
14. Consistency with the Coastal Management Plan: The executive director has reviewed this action for consistency with the goals and policies of the Texas Coastal Management Program (CMP) in accordance with the regulations of the General Land Office and has determined that the action is consistent with the applicable CMP goals and policies.
15. Letter dated May 28, 2014, from L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ, to Bill Honker, Director, Water Quality Protection Division, EPA (TCEQ proposed development strategy for pH evaluation procedures).
16. Letter dated June 2, 2014, from William K. Honker, P.E., Director, Water Quality Protection Division, EPA, to L'Oreal W. Stepney, P.E., Deputy Director, Office of Water, TCEQ (Approval of TCEQ proposed development strategy for pH evaluation procedures).
17. General Guidance – Industrial Permits: Uncontaminated Stormwater Runoff, EPA, January 1997.

PROCEDURES FOR FINAL DECISION

When an application is declared administratively complete, the chief clerk sends a letter to the applicant advising the applicant to publish the Notice of Receipt of Application and Intent to Obtain Permit in the newspaper. In addition, the chief clerk instructs the applicant to place a copy of the application in a public place for reviewing and copying in the county where the facility is or will be located. This application will be in a public place throughout the comment period. The chief clerk also mails this notice to any interested persons and, if required, to landowners identified in the permit application. This notice informs the public about the application and provides that an interested person may file comments on the application or request a contested case hearing or a public meeting.

Once a draft permit is completed, it is sent to the chief clerk, along with the executive director's preliminary decision contained in the technical summary or fact sheet. At that time, the Notice of Application and Preliminary Decision will be mailed to the same people and published in the same newspaper as the prior notice. This notice sets a deadline for making public comments. The applicant must place a copy of the executive director's preliminary decision and draft permit in the public place with the application.

Any interested person may request a public meeting on the application until the deadline for filing public comments. A public meeting is intended for the taking of public comment and is not a contested case hearing.

After the public comment deadline, the executive director prepares a response to all significant public comments on the application or the draft permit raised during the public comment period. The chief clerk then mails the executive director's response to comments and final decision to people who have filed comments, requested a contested case hearing, or requested to be on the mailing list. This notice provides that if a person is not satisfied with the executive director's response and decision, they can request a contested case hearing or file a request to reconsider the executive director's decision within 30 days after the notice is mailed.

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The executive director will issue the permit unless a written hearing request or request for reconsideration is filed within 30 days after the executive director's response to comments and final decision is mailed. If a hearing request or request for reconsideration is filed, the executive director will not issue the permit and will forward the application and request to the TCEQ commissioners for their consideration at a scheduled commission meeting. If a contested case hearing is held, it will be a legal proceeding similar to a civil trial in state district court.

If the executive director calls a public meeting or the commission grants a contested case hearing as described above, the commission will give notice of the date, time, and place of the meeting or hearing. If a hearing request or request for reconsideration is made, the commission will consider all public comments in making its decision and shall either adopt the executive director's response to public comments or prepare its own response.

For additional information about this application, contact Sarah A. Johnson at (512) 239-4649.

Sarah A. Johnson

Sarah A. Johnson

May 29, 2020

Date

STATEMENT OF BASIS / TECHNICAL SUMMARY AND
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Appendix A
Calculated Technology-Based Effluent Limits

The applicant currently operates the Decker North Polymer Facility, a polyolefin compounding plant that mixes polyethylene and/or polypropylene with additives and fillers, which are extruded to form a polyolefin compound. Construction began at the facility site in 2010 and based on 40 CFR §122.2 it is considered a new source. Therefore, the facility is subject to New Source Performance Standards (NSPS) found in 40 CFR §463.14, and these were used to develop technology-based effluent limitations.

Outfall 001

The draft permit authorizes the discharge of process wastewater at a daily average flow not to exceed 0.005 MGD via Outfall 001. Process wastewater is comprised of contact cooling and finishing water. The facility recycles process water and the discharge via Outfall 001 is 100% process wastewater.

**APPLICATION OF 40 CFR PART 463 – PLASTICS MOLDING AND FORMING POINT SOURCE
CATEGORY EFFLUENT LIMITATIONS**

Categorical Pollutant Allocations

The allowances for wastewaters identified as plastics molding and forming wastewaters (0.005 MGD) discharged via Outfall 001 were calculated based on the NSPS established in 40 CFR Part 463, Subpart A – Contact Heating and Cooling Water, and Subpart C – Finishing Water. Mass allocations (lbs/day) for these pollutants were calculated as follows:

Example Calculations: Daily Average = [13 mg/L] * [0.005 MGD] * [8.345] = 0.542 lbs/day
 Daily Maximum = [26 mg/L] * [0.005 MGD] * [8.345] = 1.08 lbs/day

Subpart A

Pollutant	Flow (MGD)	Daily Average ¹ (mg/L)	Daily Maximum (mg/L)	Daily Average (lbs/day)	Daily Maximum (lbs/day)
BOD ₅	0.005	13	26	0.542	1.08
Oil and Grease	0.005	15	29	0.625	1.21
TSS*	0.005	10	19	0.417	0.792
pH	N/A	6.0 SU, min	9.0 SU	6.0 SU, min	9.0 SU

¹ The guidelines only provide criteria for daily maximum concentrations; BPJ allocations for daily average effluent limitations were developed in the existing permit using concentrations that are approximately one half of the daily maximum concentration criteria. The daily average concentrations have been carried forward in the draft permit.

Example Calculations: Daily Average = [37 mg/L] * [0.005 MGD] * [8.345] = 1.54 lbs/day
 Daily Maximum = [130 mg/L] * [0.005 MGD] * [8.345] = 5.42 lbs/day

Subpart C

Pollutant	Flow (MGD)	Daily Average (mg/L)	Daily Maximum (mg/L)	Daily Average (lbs/day)	Daily Maximum (lbs/day)
TSS*	0.005	37	130	1.54	5.42
pH	N/A	6.0 SU, min	9.0 SU	6.0 SU, min	9.0 SU

* The more stringent TSS loadings developed for Subparts A and C were applied at Outfall 001.

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Total for 40 CFR Part 463

Parameter	Daily Average, lbs/day	Daily Maximum, lbs/day
BOD ₅	0.542	1.08
Oil and Grease	0.625	1.21
TSS	0.417	0.792
pH	6.0 SU, min	9.0 SU

Outfall 002

The draft permit authorizes the discharge of stormwater on an intermittent and flow-variable basis via Outfall 002.

Pollutant allocations for stormwater in the existing permit are based on BPJ using limits for oil and grease, chemical oxygen demand (COD), and pH from EPA guidance on industrial stormwater discharges and TSS from benchmark thresholds from the TXR050000 Multi-Sector General Permit (MSGP) for stormwater discharges from industrial facilities.

Parameter	Daily Maximum (mg/L)	Source
COD	150	EPA stormwater guidance
TSS	100	MSGP benchmark
Oil and Grease	15	EPA stormwater guidance
pH	Between 6.0 and 9.0 SU	EPA stormwater guidance

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Appendix B
Calculated Water Quality-Based Effluent Limits

TEXTOX MENU #2 - INTERMITTENT STREAM WITHIN 3 MILES OF A FRESHWATER PERENNIAL STREAM/RIVER

The water quality-based effluent limitations developed below are calculated using:

Table 1, 2014 Texas Surface Water Quality Standards (30 TAC 307) for Freshwater Aquatic Life
Table 2, 2018 Texas Surface Water Quality Standards for Human Health
"Procedures to Implement the Texas Surface Water Quality Standards," TCEQ, June 2010

PERMIT INFORMATION

Permittee Name:	General Polymer Services, LLC
TPDES Permit No.:	WQ0005211000
Outfall No.:	001
Prepared by:	S. Johnson
Date:	05/21/2020

DISCHARGE INFORMATION

Intermittent Receiving Waterbody:	HCFCF ditch O111-000-000
Perennial Stream/River within 3 Miles:	Goose Creek
Segment No.:	0902 values used for 2426
TSS (mg/L):	3
pH (Standard Units):	7.1
Hardness (mg/L as CaCO ₃):	90
Chloride (mg/L):	83
Effluent Flow for Aquatic Life (MGD):	0.005
Critical Low Flow [7Q2] (cfs) for intermittent:	0
Critical Low Flow [7Q2] (cfs) for perennial:	0.41
% Effluent for Chronic Aquatic Life (Mixing Zone):	1.85
% Effluent for Acute Aquatic Life (ZID):	100
Effluent Flow for Human Health (MGD):	0.005
Harmonic Mean Flow (cfs) for perennial:	1.32
% Effluent for Human Health:	0.583
Human Health Criterion (select: PWS, FISH, or INC)	FISH

(updated value
used)

CALCULATE DISSOLVED FRACTION (AND ENTER WATER EFFECT RATIO IF APPLICABLE):

Stream/River Metal	Intercept (b)	Slope (m)	Partition Coefficient (Kp)	Dissolved Fraction (Cd/Ct)	Source	Water Effect Ratio (WER)	Source
Aluminum	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Arsenic	5.68	-0.73	214635.47	0.608		1.00	Assumed
Cadmium	6.60	-1.13	1150410.88	0.225		1.00	Assumed
Chromium (total)	6.52	-0.93	1192002.68	0.219		1.00	Assumed
Chromium (trivalent)	6.52	-0.93	1192002.68	0.219		1.00	Assumed
Chromium (hexavalent)	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Copper	6.02	-0.74	464440.70	0.418		1.00	Assumed
Lead	6.45	-0.80	1170315.61	0.222		1.00	Assumed
Mercury	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Nickel	5.69	-0.57	261842.95	0.560		1.00	Assumed
Selenium	N/A	N/A	N/A	1.00	Assumed	1.00	Assumed
Silver	6.38	-1.03	773686.66	0.301		1.00	Assumed
Zinc	6.10	-0.70	583465.42	0.364		1.00	Assumed

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AQUATIC LIFE

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>FW Acute Criterion (µg/L)</i>	<i>FW Chronic Criterion (µg/L)</i>	<i>WLAa (µg/L)</i>	<i>WLAc (µg/L)</i>	<i>LTAa (µg/L)</i>	<i>LTAc (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Aldrin	3.0	N/A	3.00	N/A	1.72	N/A	2.52	5.34
Aluminum	991	N/A	991	N/A	568	N/A	834	1765
Arsenic	340	150	559	13315	320	10253	470	996
Cadmium	7.7	0.229	34.5	55.0	19.8	42.3	29.0	61.4
Carbaryl	2.0	N/A	2.00	N/A	1.15	N/A	1.68	3.56
Chlordane	2.4	0.004	2.40	0.216	1.38	0.166	0.244	0.517
Chlorpyrifos	0.083	0.041	0.0830	2.21	0.0476	1.70	0.0699	0.147
Chromium (trivalent)	523	68	2392	16799	1370	12936	2014	4262
Chromium (hexavalent)	15.7	10.6	15.7	572	9.00	441	13.2	27.9
Copper	12.9	8.7	30.8	1118	17.6	861	25.9	54.8
Cyanide (free)	45.8	10.7	45.8	578	26.2	445	38.5	81.6
4,4'-DDT	1.1	0.001	1.10	0.0540	0.630	0.0416	0.0611	0.129
Demeton	N/A	0.1	N/A	5.40	N/A	4.16	6.11	12.9
Diazinon	0.17	0.17	0.170	9.18	0.0974	7.07	0.143	0.302
Dicofol [Kelthane]	59.3	19.8	59.3	1069	34.0	823	49.9	105
Dieldrin	0.24	0.002	0.240	0.108	0.138	0.0832	0.122	0.258
Diuron	210	70	210	3780	120	2911	176	374
Endosulfan I (<i>alpha</i>)	0.22	0.056	0.220	3.02	0.126	2.33	0.185	0.392
Endosulfan II (<i>beta</i>)	0.22	0.056	0.220	3.02	0.126	2.33	0.185	0.392
Endosulfan sulfate	0.22	0.056	0.220	3.02	0.126	2.33	0.185	0.392
Endrin	0.086	0.002	0.0860	0.108	0.0493	0.0832	0.0724	0.153
Guthion [Azinphos Methyl]	N/A	0.01	N/A	0.540	N/A	0.416	0.611	1.29
Heptachlor	0.52	0.004	0.520	0.216	0.298	0.166	0.244	0.517
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	1.126	0.08	1.13	4.32	0.645	3.33	0.948	2.00
Lead	58	2.24	260	546	149	421	218	462
Malathion	N/A	0.01	N/A	0.540	N/A	0.416	0.611	1.29
Mercury	2.4	1.3	2.40	70.2	1.38	54.1	2.02	4.27
Methoxychlor	N/A	0.03	N/A	1.62	N/A	1.25	1.83	3.87
Mirex	N/A	0.001	N/A	0.0540	N/A	0.0416	0.0611	0.129
Nickel	428	47.6	765	4587	438	3532	644	1362
Nonylphenol	28	6.6	28.0	356	16.0	274	23.5	49.8
Parathion (ethyl)	0.065	0.013	0.0650	0.702	0.0372	0.541	0.0547	0.115
Pentachlorophenol	9.6	7.4	9.65	400	5.53	308	8.12	17.1
Phenanthrene	30	30	30.0	1620	17.2	1247	25.2	53.4
Polychlorinated Biphenyls [PCBs]	2.0	0.014	2.00	0.756	1.15	0.582	0.855	1.81
Selenium	20	5	20.0	270	11.5	208	16.8	35.6
Silver	0.8	N/A	18.5	N/A	10.6	N/A	15.6	33.0
Toxaphene	0.78	0.0002	0.780	0.0108	0.447	0.00832	0.0122	0.0258
Tributyltin [TBT]	0.13	0.024	0.130	1.30	0.0745	0.998	0.109	0.231
2,4,5 Trichlorophenol	136	64	136	3456	77.9	2661	114	242
Zinc	107	108	295	16047	169	12356	248	525

HUMAN HEALTH

CALCULATE DAILY AVERAGE AND DAILY MAXIMUM EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>Water and Fish Criterion (µg/L)</i>	<i>Fish Only Criterion (µg/L)</i>	<i>Incidental Fish Criterion (µg/L)</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Acrylonitrile	1.0	115	1150	19737	18356	26982	57086
Aldrin	1.146E-05	1.147E-05	1.147E-04	0.00197	0.00183	0.00269	0.00569
Anthracene	1109	1317	13170	226035	210212	309012	653760

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<i>Parameter</i>	<i>Water and Fish Criterion (µg/L)</i>	<i>Fish Only Criterion (µg/L)</i>	<i>Incidental Fish Criterion (µg/L)</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Antimony	6	1071	10710	183814	170947	251292	531645
Arsenic	10	N/A	N/A	N/A	N/A	N/A	N/A
Barium	2000	N/A	N/A	N/A	N/A	N/A	N/A
Benzene	5	581	5810	99716	92736	136321	288409
Benzidine	0.0015	0.107	1.07	18.4	17.1	25.1	53.1
Benzo(a)anthracene	0.024	0.025	0.25	4.29	3.99	5.86	12.4
Benzo(a)pyrene	0.0025	0.0025	0.025	0.429	0.399	0.586	1.24
Bis(chloromethyl)ether	0.0024	0.2745	2.745	47.1	43.8	64.4	136
Bis(2-chloroethyl)ether	0.60	42.83	428.3	7351	6836	10049	21260
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	6	7.55	75.5	1296	1205	1771	3747
Bromodichloromethane [Dichlorobromomethane]	10.2	275	2750	47198	43894	64524	136510
Bromoform [Tribromomethane]	66.9	1060	10600	181926	169191	248711	526185
Cadmium	5	N/A	N/A	N/A	N/A	N/A	N/A
Carbon Tetrachloride	4.5	46	460	7895	7342	10793	22834
Chlordane	0.0025	0.0025	0.025	0.429	0.399	0.586	1.24
Chlorobenzene	100	2737	27370	469747	436865	642191	1358649
Chlorodibromomethane [Dibromochloromethane]	7.5	183	1830	31408	29209	42937	90841
Chloroform [Trichloromethane]	70	7697	76970	1321024	1228553	1805972	3820798
Chromium (hexavalent)	62	502	5020	86157	80126	117785	249193
Chrysene	2.45	2.52	25.2	433	402	591	1250
Cresols [Methylphenols]	1041	9301	93010	1596316	1484574	2182324	4617026
Cyanide (free)	200	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDD	0.002	0.002	0.02	0.343	0.319	0.469	0.992
4,4'-DDE	0.00013	0.00013	0.0013	0.0223	0.0207	0.0305	0.0645
4,4'-DDT	0.0004	0.0004	0.004	0.0687	0.0638	0.0938	0.198
2,4'-D	70	N/A	N/A	N/A	N/A	N/A	N/A
Danitrol [Fenpropathrin]	262	473	4730	81180	75498	110981	234797
1,2-Dibromoethane [Ethylene Dibromide]	0.17	4.24	42.4	728	677	994	2104
m-Dichlorobenzene [1,3-Dichlorobenzene]	322	595	5950	102119	94971	139606	295358
o-Dichlorobenzene [1,2-Dichlorobenzene]	600	3299	32990	566202	526568	774055	1637627
p-Dichlorobenzene [1,4-Dichlorobenzene]	75	N/A	N/A	N/A	N/A	N/A	N/A
3,3'-Dichlorobenzidine	0.79	2.24	22.4	384	358	525	1111
1,2-Dichloroethane	5	364	3640	62473	58100	85406	180689
1,1-Dichloroethylene [1,1-Dichloroethene]	7	55114	551140	9459132	8796993	12931579	27358647
Dichloromethane [Methylene Chloride]	5	13333	133330	2288323	2128140	3128365	6618515
1,2-Dichloropropane	5	259	2590	44452	41340	60770	128567
1,3-Dichloropropene [1,3-Dichloropropylene]	2.8	119	1190	20424	18994	27921	59071
Dicofol [Kelthane]	0.30	0.30	3	51.5	47.9	70.3	148
Dieldrin	2.0E-05	2.0E-05	2.0E-04	0.00343	0.00319	0.00469	0.00992
2,4-Dimethylphenol	444	8436	84360	1447858	1346508	1979366	4187639
Di-n-Butyl Phthalate	88.9	92.4	924	15858	14748	21680	45867
Dioxins/Furans [TCDD Equivalents]	7.80E-08	7.97E-08	7.97E-07	0.0000137	0.0000127	0.0000187	0.0000395
Endrin	0.02	0.02	0.2	3.43	3.19	4.69	9.92
Epichlorohydrin	53.5	2013	20130	345488	321304	472316	999255
Ethylbenzene	700	1867	18670	320430	298000	438060	926780
Ethylene Glycol	46744	1.68E+07	1.68E+08	2883358464	2681523372	3941839356	833953768
Fluoride	4000	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	8.0E-05	0.0001	0.001	0.0172	0.0160	0.0234	0.0496

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<i>Parameter</i>	<i>Water and Fish Criterion (µg/L)</i>	<i>Fish Only Criterion (µg/L)</i>	<i>Incidental Fish Criterion (µg/L)</i>	<i>WLAh (µg/L)</i>	<i>LTAh (µg/L)</i>	<i>Daily Avg. (µg/L)</i>	<i>Daily Max. (µg/L)</i>
Heptachlor Epoxide	0.00029	0.00029	0.0029	0.0498	0.0463	0.0680	0.143
Hexachlorobenzene	0.00068	0.00068	0.0068	0.117	0.109	0.159	0.337
Hexachlorobutadiene	0.21	0.22	2.2	37.8	35.1	51.6	109
Hexachlorocyclohexane (<i>alpha</i>)	0.0078	0.0084	0.084	1.44	1.34	1.97	4.16
Hexachlorocyclohexane (<i>beta</i>)	0.15	0.26	2.6	44.6	41.5	61.0	129
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	0.2	0.341	3.41	58.5	54.4	80.0	169
Hexachlorocyclopentadiene	10.7	11.6	116	1991	1852	2721	5758
Hexachloroethane	1.84	2.33	23.3	400	372	546	1156
Hexachlorophene	2.05	2.90	29	498	463	680	1439
4,4'-Isopropylidenediphenol [Bisphenol A]	1092	15982	159820	2742966	2550959	3749909	7933481
Lead	1.15	3.83	38.3	2965	2758	4053	8576
Mercury	0.0122	0.0122	0.122	2.09	1.95	2.86	6.05
Methoxychlor	2.92	3.0	30	515	479	703	1489
Methyl Ethyl Ketone	13865	9.92E+05	9.92E+06	170255452	158337571	232756228	492429844
Methyl <i>tert</i> -butyl ether [MTBE]	15	10482	104820	1799010	1673079	2459426	5203275
Nickel	332	1140	11400	349350	324896	477596	1010425
Nitrate-Nitrogen (as Total Nitrogen)	10000	N/A	N/A	N/A	N/A	N/A	N/A
Nitrobenzene	45.7	1873	18730	321460	298958	439468	929759
N-Nitrosodiethylamine	0.0037	2.1	21	360	335	492	1042
N-Nitroso-di- <i>n</i> -Butylamine	0.119	4.2	42	721	670	985	2084
Pentachlorobenzene	0.348	0.355	3.55	60.9	56.7	83.2	176
Pentachlorophenol	0.22	0.29	2.9	49.8	46.3	68.0	143
Polychlorinated Biphenyls [PCBs]	6.4E-04	6.4E-04	6.40E-03	0.110	0.102	0.150	0.317
Pyridine	23	947	9470	162532	151155	222197	470091
Selenium	50	N/A	N/A	N/A	N/A	N/A	N/A
1,2,4,5-Tetrachlorobenzene	0.23	0.24	2.4	41.2	38.3	56.3	119
1,1,2,2-Tetrachloroethane	1.64	26.35	263.5	4522	4206	6182	13080
Tetrachloroethylene [Tetrachloroethylene]	5	280	2800	48056	44692	65697	138992
Thallium	0.12	0.23	2.3	39.5	36.7	53.9	114
Toluene	1000	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	0.011	0.011	0.11	1.89	1.76	2.58	5.46
2,4,5-TP [Silvex]	50	369	3690	63331	58898	86579	183171
1,1,1-Trichloroethane	200	784354	7843540	134617485	125194261	184035563	389354151
1,1,2-Trichloroethane	5	166	1660	28490	26496	38949	82402
Trichloroethylene [Trichloroethene]	5	71.9	719	12340	11476	16870	35691
2,4,5-Trichlorophenol	1039	1867	18670	320430	298000	438060	926780
TTHM [Sum of Total Trihalomethanes]	80	N/A	N/A	N/A	N/A	N/A	N/A
Vinyl Chloride	0.23	16.5	165	2832	2634	3871	8190

CALCULATE 70% AND 85% OF DAILY AVERAGE EFFLUENT LIMITATIONS:

<i>Parameter</i>	<i>70% of Daily Avg. (µg/L)</i>	<i>85% of Daily Avg. (µg/L)</i>
Aquatic Life		
Aldrin	1.76	2.14
Aluminum	584	709
Arsenic	329	400
Cadmium	20.3	24.6
Carbaryl	1.17	1.43
Chlordane	0.171	0.207
Chlorpyrifos	0.0489	0.0594
Chromium (trivalent)	1410	1712

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Aquatic Life	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Chromium (hexavalent)	9.25	11.2
Copper	18.1	22.0
Cyanide (free)	27.0	32.7
4,4'-DDT	0.0427	0.0519
Demeton	4.27	5.19
Diazinon	0.100	0.121
Dicofol [Kelthane]	34.9	42.4
Dieldrin	0.0855	0.103
Diuron	123	150
Endosulfan I (<i>alpha</i>)	0.129	0.157
Endosulfan II (<i>beta</i>)	0.129	0.157
Endosulfan sulfate	0.129	0.157
Endrin	0.0507	0.0615
Guthion [Azinphos Methyl]	0.427	0.519
Heptachlor	0.171	0.207
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	0.663	0.806
Lead	153	185
Malathion	0.427	0.519
Mercury	1.41	1.71
Methoxychlor	1.28	1.55
Mirex	0.0427	0.0519
Nickel	450	547
Nonylphenol	16.5	20.0
Parathion (ethyl)	0.0383	0.0465
Pentachlorophenol	5.68	6.90
Phenanthrene	17.6	21.4
Polychlorinated Biphenyls [PCBs]	0.598	0.727
Selenium	11.7	14.3
Silver	10.9	13.2
Toxaphene	0.00855	0.0103
Tributyltin [TBT]	0.0766	0.0930
2,4,5 Trichlorophenol	80.1	97.3
Zinc	173	211

Human Health	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Acrylonitrile	18887	22935
Aldrin	0.00188	0.00228
Anthracene	216308	262660
Antimony	175904	213598
Arsenic	N/A	N/A
Barium	N/A	N/A
Benzene	95425	115873
Benzidine	17.5	21.3
Benzo(<i>a</i>)anthracene	4.10	4.98
Benzo(<i>a</i>)pyrene	0.410	0.498
Bis(chloromethyl)ether	45.0	54.7
Bis(2-chloroethyl)ether	7034	8541
Bis(2-ethylhexyl) phthalate [Di(2-ethylhexyl) phthalate]	1240	1505
Bromodichloromethane [Dichlorobromomethane]	45166	54845

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Human Health	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Bromoform [Tribromomethane]	174097	211404
Cadmium	N/A	N/A
Carbon Tetrachloride	7555	9174
Chlordane	0.410	0.498
Chlorobenzene	449533	545862
Chlorodibromomethane [Dibromochloromethane]	30056	36497
Chloroform [Trichloromethane]	1264180	1535076
Chromium (hexavalent)	82450	100118
Chrysene	413	502
Cresols [Methylphenols]	1527626	1854975
Cyanide (free)	N/A	N/A
4,4'-DDD	0.328	0.398
4,4'-DDE	0.0213	0.0259
4,4'-DDT	0.0656	0.0797
2,4'-D	N/A	N/A
Danitol [Fenpropathrin]	77687	94334
1,2-Dibromoethane [Ethylene Dibromide]	696	845
<i>m</i> -Dichlorobenzene [1,3-Dichlorobenzene]	97724	118665
<i>o</i> -Dichlorobenzene [1,2-Dichlorobenzene]	541838	657946
<i>p</i> -Dichlorobenzene [1,4-Dichlorobenzene]	N/A	N/A
3,3'-Dichlorobenzidine	367	446
1,2-Dichloroethane	59784	72595
1,1-Dichloroethylene [1,1-Dichloroethene]	9052105	10991842
Dichloromethane [Methylene Chloride]	2189856	2659110
1,2-Dichloropropane	42539	51654
1,3-Dichloropropene [1,3- Dichloropropylene]	19544	23733
Dicofol [Kelthane]	49.2	59.8
Dieldrin	0.00328	0.00398
2,4-Dimethylphenol	1385556	1682461
Di- <i>n</i> -Butyl Phthalate	15176	18428
Dioxins/Furans [TCDD Equivalents]	0.0000130	0.0000158
Endrin	3.28	3.98
Epichlorohydrin	330621	401469
Ethylbenzene	306642	372351
Ethylene Glycol	2759287549	3350563452
Fluoride	N/A	N/A
Heptachlor	0.0164	0.0199
Heptachlor Epoxide	0.0476	0.0578
Hexachlorobenzene	0.111	0.135
Hexachlorobutadiene	36.1	43.8
Hexachlorocyclohexane (<i>alpha</i>)	1.37	1.67
Hexachlorocyclohexane (<i>beta</i>)	42.7	51.8
Hexachlorocyclohexane (<i>gamma</i>) [Lindane]	56.0	68.0
Hexachlorocyclopentadiene	1905	2313
Hexachloroethane	382	464
Hexachlorophene	476	578
4,4'-Isopropylidenediphenol [Bisphenol A]	2624936	3187422
Lead	2837	3445
Mercury	2.00	2.43
Methoxychlor	492	598
Methyl Ethyl Ketone	162929360	197842794

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Human Health	70% of Daily Avg.	85% of Daily Avg.
Parameter	(µg/L)	(µg/L)
Methyl <i>tert</i> -butyl ether [MTBE]	1721598	2090512
Nickel	334317	405957
Nitrate-Nitrogen (as Total Nitrogen)	N/A	N/A
Nitrobenzene	307627	373547
N-Nitrosodiethylamine	344	418
N-Nitroso-di- <i>n</i> -Butylamine	689	837
Pentachlorobenzene	58.3	70.8
Pentachlorophenol	47.6	57.8
Polychlorinated Biphenyls [PCBs]	0.105	0.127
Pyridine	155538	188868
Selenium	N/A	N/A
1,2,4,5-Tetrachlorobenzene	39.4	47.8
1,1,2,2-Tetrachloroethane	4327	5255
Tetrachloroethylene [Tetrachloroethylene]	45988	55842
Thallium	37.7	45.8
Toluene	N/A	N/A
Toxaphene	1.80	2.19
2,4,5-TP [Silvex]	60605	73592
1,1,1-Trichloroethane	128824894	156430228
1,1,2-Trichloroethane	27264	33106
Trichloroethylene [Trichloroethene]	11809	14339
2,4,5-Trichlorophenol	306642	372351
THM [Sum of Total Trihalomethanes]	N/A	N/A
Vinyl Chloride	2710	3290

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Appendix D
Comparison of Technology-Based Effluent Limits and Water Quality-Based Effluent Limits

The following table is a summary of technology-based effluent limitations calculated/assessed in the draft permit (Technology-Based), calculated/assessed water quality-based effluent limitations (Water Quality-Based), and effluent limitations in the existing permit (Existing Permit). Effluent limitations appearing in bold are the most stringent of the three and are included in the draft permit.

Outfall	Pollutant	Technology-Based			Water Quality-Based			Existing Permit		
		Daily Avg	Daily Max		Daily Avg	Daily Max		Daily Avg	Daily Max	
		lbs/day	lbs/day	Report	lbs/day	lbs/day	Report	lbs/day	lbs/day	Report
001	Flow (MGD)									
	BOD ₅	0.542	1.08	Report	Existing limits adequate			0.005 MGD	0.0075 MGD	
	Oil and Grease	0.625	1.12		-	-		0.625	1.12	
	TSS	0.417	0.792		-	-		0.417	0.792	
	pH	6.0 SU (mn)	9.0 SU (max)		6.0 SU (mn)	9.0 SU (max)		6.0 SU (min)	9.0 SU (max)	

Outfall	Pollutant	Technology-Based			Water Quality-Based			Existing Permit		
		Daily Avg	Daily Max		Daily Avg	Daily Max		Daily Avg	Daily Max	
		mg/L	mg/L	Report	mg/L	mg/L	Report	mg/L	mg/L	Report
002	Flow									
	COD	-	150		-	-		-	-	150
	TSS	-	100		-	-		-	-	100
	Oil and Grease	-	15		-	-		-	-	15
	pH	6.0 SU (min)	9.0 SU (max)		6.0 SU (min)	9.0 SU (max)		6.0 SU (min)	9.0 SU (max)	