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Date: February 27, 2026

Subject: Request to Discontinue SPDES Permit Number NY0005754 for Former
Texaco Beacon Research Center, Glenham, New York

To Whom It May Concern,

On behalf of my client, Chevron Environmental Management Company (Chevron) I am requesting the discontinuation of the State Pollution Discharge Elimination System permit (SPDES permit number NY0005754) for the Former Texaco Beacon Research Center site located in Glenham, New York. Arcadis of New York, Inc. (Arcadis) has prepared the enclosed closure plan to present the information and proposed activities that would be conducted to fulfil the intent and requirements in 6 NYCRR Section 750-2.11 *Closure requirements for disposal systems*.

Please do not hesitate to contact me if the Department requires additional information on this request.

Sincerely,
Arcadis of New York, Inc.



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Enclosures: Closure Plan for SPDES Permit NY# 0005754, Former Texaco Beacon Research Center, Glenham,
New York February 2026.

Chevron Environmental Management Company

Closure Plan for SPDES Permit NY# 0005754
Former Texaco Beacon Research Center
Glenham, New York

February 2026



Closure Plan for SPDES Permit NY# 0005754

Former Texaco Beacon Research Center, Glenham, New York

February 2026

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Contents

Licensed Professional Engineer Certification.....	iv
Acronyms and Abbreviations.....	v
1 Introduction.....	1
1.1 Site Background and Description.....	1
1.2 SPDES Permit	1
1.2.1 Inactive Outfalls	3
1.2.2 Active Outfalls.....	4
1.3 Closure Objectives	4
2 Existing Sewer Systems and WWTP	6
2.1 Industrial Sewer System	6
2.2 Sanitary Sewer System	7
2.3 Storm Sewer System.....	7
2.4 Wastewater Treatment Plant	8
2.4.1 Industrial Wastewater Treatment System	8
2.4.2 Sanitary Wastewater Treatment System	9
3 Closure Schedule and Activities.....	10
3.1 Closure Schedule	11
3.2 Final Disposition of Physical Facilities	11
3.2.1 Sanitary Sewer System	11
3.2.2 Sanitary Treatment System and Outfall 009	12
3.2.3 Abandoned Industrial Treatment System and Outfall 010	13
3.3 Elimination of Equipment and/or Conditions that Pose Safety Hazard	14
3.4 Verification of No Cross Connections.....	14
3.5 Licensed Individual Responsible for Maintenance and Operation	14
3.6 Deactivated Lagoons or Other Discharges to Groundwater.....	15
3.7 Residual Management and Removal	15
4 Closure Report and Final Inspection.....	15
5 References	15

Exhibits

Exhibit 1: Reported Maximum Daily Flow

Exhibit 2: Block Flow Diagram – Industrial Wastewater Treatment System

Exhibit 3: Block Flow Diagram – Sanitary Wastewater Treatment System

Figures

Figure 1 – Industrial Sewer System

Figure 2 – Sanitary Sewer System

Figure 3 – Storm Sewer System

Figure 4 – Site Plan – Wastewater Treatment Plant – Industrial Treatment System

Figure 5 – Site Plan – Wastewater Treatment Plant – Sanitary Treatment System

Appendices

Appendix A – SPDES Permit effective August 1, 2015, and Texaco Letters to NYSDEC dated December 23, 1992 and August 11, 1982

Appendix B – Stamped Drawings "Additional Treatment Facilities for the Laboratory Waste Water System", Kartiganer Associates, P.C., October 1984

Appendix C – Photo Log from Arcadis Site Visit on September 22-23, 2025

Appendix D – WWTP Equipment Decommissioning Summary

Licensed Professional Engineer Certification

I, **Krista Hankins Mastrocola**, certify that I am currently a New York State licensed Professional Engineer and that this SPDES Permit Closure Plan was prepared in accordance with the requirements described in 6 NYCRR Section 750-2.11 "Closure requirements for disposal systems".



Krista Hankins Mastrocola

Krista Hankins Mastrocola, PE
NY-PE# 092498

Acronyms and Abbreviations

API	American Petroleum Institute
CCTV	Closed-Circuit Television
EPA	Environmental Protection Agency
FOIL	Freedom of Information Law
gpd	gallons per day
ISS	Industrial Sewer System
MSGP	Multi-Sector General Permit
NYSDEC	New York State Department of Environmental Conservation
OWS	Oil Water Separator
PVC	Polyvinyl Chloride
RBC	Rotating Biological Contactor
SAPA	State Administrative Procedure Act
SPDES	State Pollutant Discharge Elimination System
WWTP	Wastewater Treatment Plant

1 Introduction

On behalf of Chevron Environmental Management Company (Chevron), Arcadis of New York, Inc. (Arcadis) prepared this closure plan for the former Texaco Beacon Research Center (Beacon Technology Center) located in Glenham, New York (the Site). This closure plan outlines details to terminate the Site's New York State Department of Environmental Conservation (NYSDEC) State Pollution Discharge Elimination System permit (SPDES permit number NY0005754), herein after referred to as the "SPDES permit."

1.1 Site Background and Description

The Site is located on approximately 153 acres of land and is bisected by Fishkill Creek. The Site was a multi-building campus and operated as a non-production, non-transportation laboratory complex engaged in research, development, and technical services facility related to petroleum products and energy from 1931 until its closure in 2003. Principal activities consisted of the operation of analytical, chemical, and mechanical laboratories. Supporting activities include craft shops, plant service, and offices. No manufacturing was performed at this facility. Petroleum products including fuels, additives, lubricants, and greases were used at the Site in connection with the research functions. Following operations closure in 2003, Chevron began demolition of the buildings in 2010. By 2012, buildings at the Site were demolished, except for the following:

- Building 31 – former credit union building is functioning as a field office and is a known source of sanitary wastewater.
- Field trailer (to the east of Building 31) – functioned as a field office and was a known source of sanitary wastewater. The trailer was demolished in December 2025, and the sanitary pipe was cut and capped at grade.
- Buildings 2, 3, 4, and 5 – former Mill buildings are unoccupied and not a current source of wastewater. The Mill buildings were initially intended for redevelopment as waterfront property, but redevelopment has not yet occurred.
- Buildings 21, 45, 80, 81, and 85 – the WWTP buildings house the facility's industrial and sanitary wastewater treatment systems.
- Buildings 58, 82, 83, and 91 – previously housed drum and waste storage but have more recently been used to support equipment storage as a leased space to a landscaping company. None of these structures are wastewater sources.
- Buildings 87 and 88 – former administrative buildings and are not current sources of wastewater.

1.2 SPDES Permit

Wastewater generated during site operations were conveyed via one of three segregated avenues under SPDES permit number NY0005754:

- The industrial sewer system (ISS);
- The sanitary wastewater treatment system; or,
- The stormwater conveyance.

Facility laboratories wastewater was plumbed for treatment onsite via the industrial sewer system (ISS), where the wastewater was treated prior to discharge in accordance with the facility's existing SPDES permit. The Site

also operates its own domestic sanitary sewer system and discharges treated sanitary wastewater in accordance with the SPDES permit. Additionally, the Site discharged non-contact cooling water when it was an active facility, and stormwater in accordance with the SPDES permit (#NY0005754).

The SPDES permit was initially approved on April 3, 1973, for discharge to Fishkill Creek. The SPDES permit was transferred from Texaco to Chevron on February 28, 2003, and has been administratively renewed every 5 years. The most recent copy of the full SPDES permit available was effective on August 1, 2015, and is provided in **Appendix A**. The most recent permit renewal was signed and submitted by Chevron on July 21, 2025, prior to the permit expiration. The permit renewal was approved by NYSDEC under the State Administrative Procedure Act (SAPA) on September 2, 2025. In accordance with the SPDES permit the following outfalls are currently permitted for discharge to Fishkill Creek (NYSDEC 2025):

- Outfall 003 – Non-Contact Cooling Water
- Outfall 006 – Emergency Overflow for Micro strainer System
- Outfall 008 – Non-Contact Cooling Water and Storm Water
- Outfall 009 – Treated sanitary wastewater discharge
- Outfall 010 – Lab Drains, Miscellaneous Cooling Storm Water, Boiler Blowdown, and Contaminated Groundwater Recovery
- Outfall 011 – Emergency Bypass, After the Grit Trap and to Oil Water Separator, of the 010 Secondary Treatment (added in 1984)
- Outfall 012 - Emergency Bypass, After the Primary Settling Tank, of the 009 Secondary Treatment (added in 1984)

Other than Outfalls listed above that are currently regulated and listed in the SPDES permit, the outfall locations map attached to the historic SPDES permits (see **Appendix A** records) showed additional non-contact cooling water and/or stormwater outfalls at the Site that are not listed in the permit:

- Outfall 001 / S1
- Outfall S2
- Outfall S3
- Outfall 002 / S4
- Outfall S5a
- Outfall S6
- Outfall S7
- Outfall S8
- Outfall S9
- Outfall S10
- Outfall S11
- Outfall 004 / S12
- Outfall 005 / S13
- Outfall 007 / S14
- Outfall S17
- Outfall S18
- Outfall S19
- Outfall S20

- Outfall S21
- Outfall S22
- Outfall S23
- Outfall S24

These stormwater and/or non-contact cooling water outfalls were assumed to be previously regulated under (1) separate permits (i.e., MSGP) that became inactive when the Site closed, or (2) earlier versions of the SPDES permit NY0005754 but were subsequently removed prior to the permit effective on August 1, 2015 (NYSDEC, 2015).

1.2.1 Inactive Outfalls

Since wastewater sources associated with the facility's activities, such as lab drains, non-contact cooling waters, etc., were eliminated when the facility closed and buildings were demolished, the following outfalls ceased to be relevant and should have been addressed in the permit:

- Outfall 003 - Outfall 003 was strictly a non-contact cooling water discharge and therefore, did not have any stormwater discharge (Texaco 1992; **Appendix A**).
- Outfall 006 – Emergency overflow for micro strainer system. The micro strainer was used to strain water from the creek for plant use and would only discharge to the outfall if (1) strained creek water overflowed (supply exceeded plant demand), which would not normally occur, and (2) when the micro strainer needed to be emptied rapidly, which had never occurred (Texaco 1982; **Appendix A**). The 1995 version of the permit indicates reporting related to Outfall 006 was only necessary when a micro strainer system overflow occurred which has not been active since 2003 or earlier.
- Outfall 010 - Based on the reports completed by IT Engineering of New York, P.C. (March 8, 2002) and Parsons (October 2006), all industrial sewers have either been removed or grouted in place and therefore, are no longer contributing flow to Outfall 010. A review of the available DMRs from December 2020 through August 2025 confirmed there has not been flow observed from Outfall 010 during this period. However, the formal closure of Outfall 010 is unconfirmed since the industrial wastewater treatment system at the WWTP was not addressed as part of the ISS closure efforts in 2002 and 2006.
- Outfall 011 – Emergency conditions have not been recorded or necessary since the closure of Outfall 010 and thus this outfall is deemed inactive.
- Outfall 012 – Emergency conditions have not been recorded requiring any activity from Outfall 009 and thus this outfall is inactive.

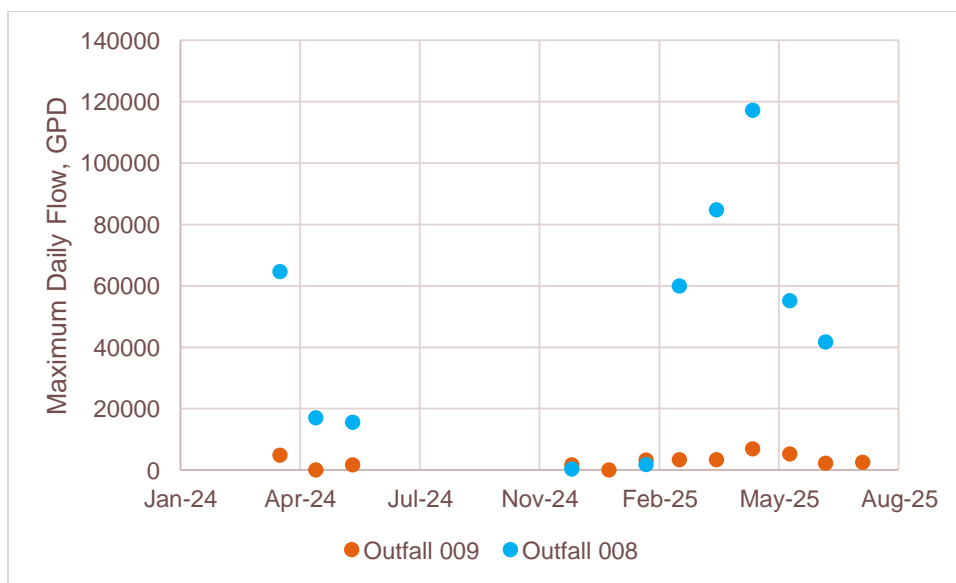
In an effort to confirm formal closure was addressed for these outfalls, Arcadis submitted a Freedom of Information Law (FOIL) request to NYSDEC on August 3, 2021, for all correspondence and documents relating to the SPDES permit for confirmation. On September 1, 2021, Arcadis was provided with a dam, stream disturbance and water quality certification permit (permit ID 3-1330-00048/00042) for Chevron's U.S.A.'s Beacon Technology Center dated June 28, 2011. Arcadis followed up with a FOIL appeal on September 10, 2021, but no other documentation was returned. Based on Arcadis' review of the available information provided by Chevron, additional documentation to confirm whether any of the inactive outfalls were formally removed from the SPDES permit could not be found.

Based on the FOIL request, no historical documents or monitoring data could be found to indicate the status of Outfall 011 and Outfall 012. Therefore, these outfalls are assumed to be inactive, but the existence of these outfalls will be confirmed as part of the closure efforts onsite.

1.2.2 Active Outfalls

Of the outfalls listed in permit, only Outfalls 008 and 009 have active flow. A summary of the available flow reported from April to June and December 2024, and February to August 2025 is provided in **Exhibit 1**.

Exhibit 1. Reported Maximum Daily Flow



The maximum daily flow reported monthly for Outfall 008 ranged from 300 to 117,260 gallons per day (gpd) and averaged about 45,791 gpd. The flow at Outfall 008 was attributable to stormwater run-off and groundwater inflow.

The maximum daily flow reported monthly for Outfall 009 ranged from 0 to 6,900 gpd and averaged about 2,900 gpd. The flow at Outfall 009 was attributable to the last sanitary wastewater sources remaining at the facility (Building 31 and adjacent former field office trailer) and possible rainwater infiltration through the primary settling tank. Chevron recently removed the former field office trailer and plans to permanently disconnect the water supply to Building 31 by end of first quarter in 2026, thereby removing the remaining sources of sanitary wastewater contributing flow to the sanitary treatment system and Outfall 009.

1.3 Closure Objectives

With the removal of all the wastewater-generating sources at the Site, the outfalls and monitoring requirements related to the sanitary and industrial wastewater treatment systems no longer reflect the operating scenarios. As such, Chevron intends to close the facility’s SPDES permit by achieving the following closure objectives:

- Decontaminate and decommission the sanitary treatment system and industrial treatment system at the WWTP and associated Outfall 009 and Outfall 010 for permanent closure.

- Seek NYSDEC agreement that continued monitoring is no longer required for the stormwater Outfall 008 nor is Multi-Sector General Permit (MSGP) coverage applicable with the current site conditions and lack of active industrial operations.
- Permanently close the remaining inactive outfalls listed in the permit – 003, 006, 011, and 012.

This closure plan has been prepared to present the information and proposed activities that would be conducted to fulfil the intent and requirements in 6 NYCRR Section 750-2.11 *Closure requirements for disposal systems*, as follows:

(a) This section applies to any and all disposal systems permanently removed from use or operation at SPDES permitted facilities or at facilities for which a SPDES permit has been revoked or an application for renewal denied, unless a judicial or administrative stay is in effect. The intent of this section is to protect public safety and health and to assure that no contamination of ground or surface water will occur as a result of removing such systems from service either through the act of closure or through continuing the discharge of pollutants into or through equipment; or through leaking, leaching, or discharge of pollutants from wastewater or residuals remaining in disposal systems which has been removed from use but remains on site.

(b) The closure of a disposal system means either the termination of the source of wastewater or storm water, or the permitted conveyance of wastewater or storm water to an alternate location (such as a regional facility) in such a manner that no further treatment storage or conveyance of wastewater or storm water is performed by the system.

(c) Disposal system closures shall conform with the following procedures:

(1) On or before 60 calendar days prior to taking the system out of service a permittee shall:

(i) submit to the regional water engineer the following information concerning closure activities:

(a) the date the system will cease operation;

(b) the date the influent and effluent pipes will be sealed;

(c) plans (signed and sealed by a New York State licensed professional engineer) for final disposition of the physical facilities, including all treatment units, outfall line, and all mechanical and electrical equipment and piping;

(d) plans (signed and sealed by a New York State licensed professional engineer) for elimination of all equipment and/or conditions that could possibly pose a safety hazard, either during or after shut-down of operations;

(e) verification that there are no lines in the collection system which are cross connected (receiving both sanitary and storm water) or which do not contain adequate conveyance capacity;

(f) the name of the licensed individual responsible for the maintenance and operation of the wastewater pumping station and/or disposal system systems that are still to be maintained; and

(ii) notify the regional water engineer, in writing, concerning any deactivated lagoons or other actual or potential discharges to ground water which may exist at the site.

(2) Proper management and/or removal of all residual materials (collected grit and screenings, scums, sand bed material, and dried or liquid sludges), as well as filter media, and all other solids from the treatment process that may remain in the abandoned treatment works is required.

(i) The permittee shall submit to the regional water engineer proof of ownership of or contractual arrangement with an operation or operations permitted to manage all such waste materials. A contract with a hauler will only be accepted as proof of proper waste management if documentation of management at an approved site or sites is included. In addition, all necessary State or Federal permits/approvals must accompany the submission.

(ii) All residual material shall be removed within 180 calendar days after the system is taken out of service. Proof of proper residuals management shall be submitted to the regional water engineer within 30 calendar days after their removal. The dates of removal and quantities removed shall be specified.

(d) Upon satisfaction of closure requirements specified in subdivision (c) of this section, the regional water engineer shall be contacted, in writing, to schedule a final site inspection of any disposal system which had a SPDES discharge permit to verify that influent and effluent pipes have been sealed and that all solid and residual materials related to the treatment process have been removed.

2 Existing Sewer Systems and WWTP

The Site has three separate sewer systems that convey wastewater and stormwater from the Site and previous buildings to the WWTP and/or outfalls:

- Industrial Sewer System - ISS conveyed industrial wastewater to the industrial wastewater treatment system at the WWTP.
- Sanitary Sewer System – Sanitary sewer system conveyed sanitary wastewater to the sanitary wastewater treatment system at the WWTP.
- Storm Sewer System.

2.1 Industrial Sewer System

When the Site was an active facility, the ISS received oil-bearing wastewater from all laboratory sinks, floor drains, and some "once through" cooling water from equipment used for research work and plant services (engines, dynamometers, compressors, air conditioners, etc.), and backwash water from a water strainer (micro strainer).

- 1984/1985 – The onsite oil-bearing sewer treatment system was upgraded. As-built drawings approved by NYSDEC are attached as **Appendix B**.
- 2001 - Chevron cleaned, conducted an integrity evaluation, rehabilitated, and closed significant portions of the ISS in accordance with the Site's Hazardous Waste Management Permit from NYSDEC (ID number 3-1330-48/16-0). This was Phase I of the ISS closure at the Site and was completed by IT Engineering of New York, PC, in March 2002. The closure report was submitted to NYSDEC and accepted in June 2003.
- 2005 - NYSDEC approved the work plan prepared by Parsons, Liverpool, New York, for Phase II of the ISS closure at the Site. The work for Phase II included cleaning, inspection, and investigation of potential leaks in the remaining sections of the ISS piping system, confirmation soil, and rinse water sampling, as well as follow-up activities recommended in Phase I of the ISS closure work. The Phase II report was prepared by Parsons in October 2006.

The network of ISS piping is shown on **Figure 1**. The network of underground piping for the ISS is based on the Phase I and Phase II closure reports, and historical drawings provided by Chevron. Based on the Phase II report, all ISS piping at the Site flows to the industrial wastewater treatment system at the WWTP via four main branches. All four branches enter the industrial treatment system at the grit chamber (or grit trap) and all four pipe entry points were plugged and sealed as part of the Phase II work.

No closure activities of the treatment system or the outfall pipe at the WWTP were detailed in either the Phase I or Phase II reports prepared by Parsons. It is assumed that the industrial wastewater treatment system and effluent discharge pipe for Outfall 010 was abandoned in place. This closure plan addresses the treatment system from the grit chamber to Outfall 010.

2.2 Sanitary Sewer System

When the Site was an active facility, the sanitary sewer system received wastewater from the building bathrooms. There were no cafeterias, laundry facilities, or garbage grinders known to have been present on Site. The network of piping for the sanitary sewer system is shown in **Figure 2** and is based on the Phase I closure report and historical drawings provided by Chevron. The historical drawings available for the sanitary sewer system have low resolution and offered limited clarity on the sanitary wastewater flow in areas where drawing lines overlap.

Based on field observations of the manholes uncovered during the September 2025 site visit, it appears flow from the north and eastern area of the Site is channeled by gravity into a manhole (SN-1), which is immediately upstream of the primary settling tank of the sanitary wastewater treatment system. It is suspected flow from the west/southwest portion of the Site is also channeled by gravity and drains directly into the primary settling tank, via a 4" pipe observed in the NW tank compartment during the site visit. The historical drawings show two other pipes leading to or from the primary settling tank that were not observed during the September 2025 site visit, and the existence of these pipes can only be confirmed when the tank is drained. This closure plan addresses the sanitary sewer system and treatment system to Outfall 009.

2.3 Storm Sewer System

The storm sewer system receives stormwater runoff from catch basins, roofs of buildings, and when the Site was an active facility "once through" non-contact cooling water. The storm sewer system discharges directly to Fishkill Creek. The storm sewer system piping is shown in **Figure 3** and is based on the Phase I closure report and historical drawings provided by Chevron.

Other than Outfall 003 and Outfall 008 that are currently regulated and listed in the SPDES permit, the outfall locations map attached to the SPDES permit shows additional non-contact cooling water and/or stormwater outfalls at the Site that are not listed in the permit. These outfalls are assumed to be inactive and are listed in Section 1.2 of this plan. As part of the closure effort, Chevron will locate and visually confirm that there are no flows from these inactive non-contact cooling water / stormwater outfalls. No other closure activities will be performed for these outfalls. For Outfall 008, Chevron is requesting NYSDEC provide a determination if continued monitoring is required and/or if coverage under the MSGP is required for the outfall given the site is currently vacant/inactive with no industrial activities taking place.

2.4 Wastewater Treatment Plant

There are two separate wastewater treatment systems at the WWTP:

- Industrial wastewater treatment system, which is housed in Buildings 45, 80, and 85, and discharges to Outfall 010 (**Figure 4**).
- Sanitary wastewater treatment system, which is housed in Buildings 21 and 81, and discharges to Outfall 009 (**Figure 5**).

The industrial wastewater treatment system was assumed to be abandoned upon closure of the ISS in 2006, and the sanitary wastewater treatment system is functioning minimally and in need of closure. In addition, abandoned structures and equipment that previously supported the treatment process are still present at the WWTP. Arcadis conducted a site visit September 22 - 23, 2025, with the focus on the sanitary sewer system and wastewater treatment plant. A photo log of the observations from this site visit is provided in **Appendix C**.

2.4.1 Industrial Wastewater Treatment System

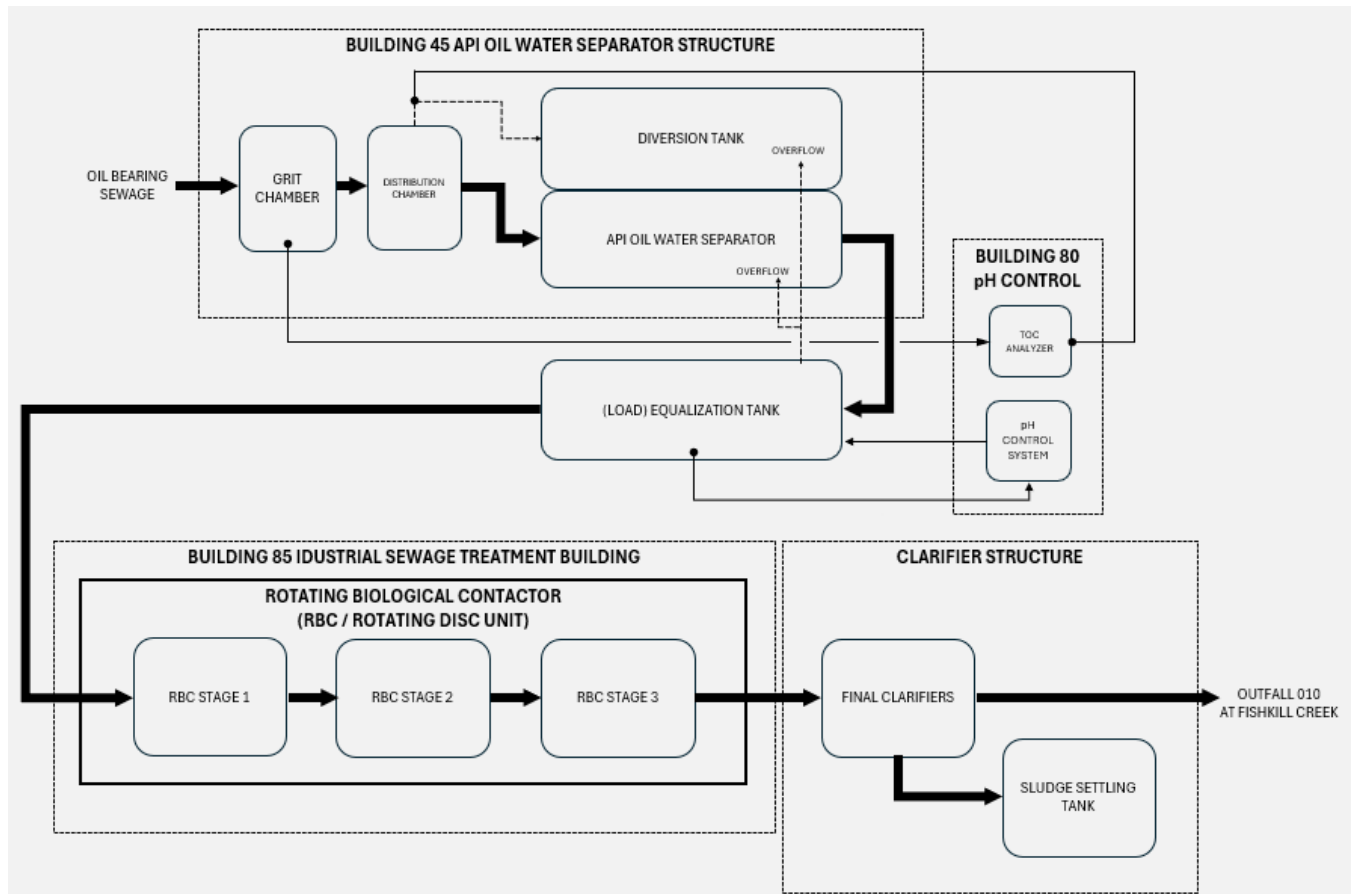
Prior to 1984, the industrial wastewater treatment system utilized an API oil water separator (OWS) / API separator and an air floatation unit to treat the oil-bearing wastewater. The system was upgraded in 1984 to include (1) a rotating biological contactor (RBC) with final clarification to replace the air floatation unit, (2) flow equalization tank, and (3) automatic monitoring, diversion and neutralization facilities to ensure compliance during accidental spills and/or shock loads which might enter the system.

The API separator structure is referred to as Building 45 and is composed of open concrete tanks for the grit trap (or grit chamber), flow distribution compartment (or distribution chamber, inlet box), and two 20,000-gallon compartments for primary treatment (gravity separation). Prior to the 1984 upgrade, only one (west) compartment was used for primary treatment of the wastewater while the other (east) compartment was used for sludge holding. During the 1984 upgrade, the east compartment was converted from sludge holding to a diversion tank while the west compartment remained as the primary API separator. An in-line total organic carbon continuous analyzer was installed in the grit trap to monitor the influent. When a shock load entered the system, the analyzer would sound an alarm, and the influent would be automatically diverted to the diversion tank.

From the API separator, the wastewater would be pumped into the adjacent concrete equalization (EQ) tank. The EQ tank was installed to equalize the flow and load from the API separator to the RBC unit. The EQ tank capacity is either 15,000-gallon or 21,000-gallon, and was equipped with mixing, aeration, continuous pH monitoring, and automatic pH adjustments. A neutralization system was housed in Building 80 and consisted of acid and base tanks and metering equipment to control the pH of the influent to the RBC unit.

Neutralized wastewater would flow by gravity from the EQ tank into the RBC unit in Building 85. The RBC has a 10' shaft and has three stages of 11'-10" diameter media, yielding a total of approximately 41,000 square feet of media. The wastewater would then flow by gravity into the final clarifier. Final settling was provided by a 600 square foot (approximately 14,000-gallon) clarifier tank. The tank is divided into two compartments each 300 square feet so cleaning and/or repairs could take place with one compartment of the unit kept in service. Sludge was pumped to a separator tank (sludge holding tank) for treatment and off-site disposal. Clarified effluent would flow into a small stilling chamber before being discharged through Outfall 010 into Fishkill Creek. **Exhibit 2** shows the treatment process for the industrial wastewater treatment system when it was in operation:

Exhibit 2: Block Flow Diagram – Industrial Wastewater Treatment System



It is unknown if any of the equipment and supporting chemical metering for the treatment tanks, such as the API pump, the EQ tank mixer and aerator, and pH adjustment system, have been removed. Any remaining abandoned equipment will be deenergized, decontaminated, and removed as part of this closure.

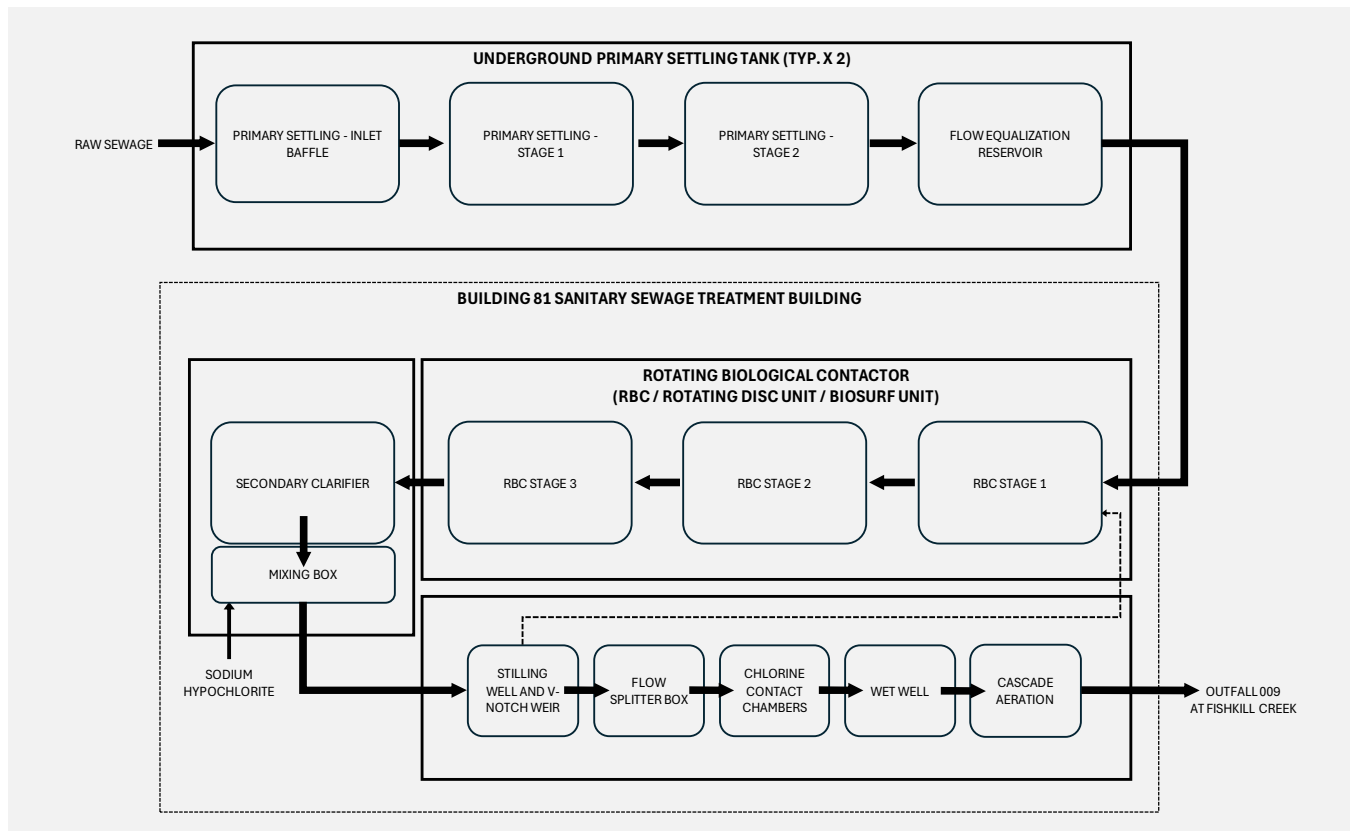
2.4.2 Sanitary Wastewater Treatment System

Treatment of sanitary wastewater from this system consists of primary settling, biological treatment (RBC), secondary clarification, and final disinfection. Sanitary wastewater from the north and east of the Site would flow into the primary settling tank via manhole SN-1 and from west/southwest of the Site directly into the tank. The primary settling tank is a concrete tank with two separate compartments, each with a 13,000-gallon capacity. Each tank compartment consists of an inlet baffle, two-stage settling, and an equalization reservoir. During the September 2025 site visit, Arcadis observed cracks, root intrusion, and signs water infiltration in the concrete wall of the primary settling tank.

Wastewater is currently pumped from one of the two reservoirs through a flexible hose to the sanitary RBC in Building 81. The RBC is a three-stage unit, consisting of an approximately 5,700-gallon tank with 25,700 square feet of media supported on a motor-driven shaft. There is minimal to no biological growth on the RBC media, and the unit has not been functioning as designed due to insufficient flow and limited organic loading to sustain the biomass.

From the RBC, the wastewater flows by gravity into a below-grade tank consisting of a secondary clarifier followed by the mixing box. Since there is no biological growth on the RBC, there is minimal to no sludge generated from the secondary clarifier. Sodium hypochlorite is dosed into the mixing box before the wastewater flows by gravity into a below-grade disinfection tank where the wastewater is given sufficient contact time with the chlorine for full disinfection. The disinfected wastewater flows by gravity through Outfall 009 and discharges into Fishkill Creek. **Exhibit 3** shows the treatment process of the sanitary wastewater treatment system:

Exhibit 3: Block Flow Diagram – Sanitary Wastewater Treatment System



During the September 2025 site visit, Arcadis observed other abandoned equipment in the vicinity of the sanitary treatment system. The former chlorinator system in Building 21 appears to have been abandoned for a long time. The chlorinator components, pumps, valves, piping, empty chlorine tank, electrical panel, and sink remain in a now dilapidated building. The building appears to have been used to store hoses, old pumps, pipes, and pipe fittings.

There is small underground concrete tank located adjacent to the primary settling tank. The tank may have been used as a disinfection tank before the sanitary treatment system in Building 81 was installed. During the September 2025 site visit, standing water was observed in the tank.

3 Closure Schedule and Activities

The closure schedule and activities presented in this section will follow the intent and requirements in 6 NYCRR Section 750-2.11 *Closure requirements for disposal systems*. Presently, Chevron intends to decommission and

permanently close the WWTP and associated Outfalls 009 and 010. Inactive outfalls – 003, 006, 011, and 012 – will also be located and permanently sealed. Refer to **Figure 3** for potential locations of these inactive outfalls.

Potable water supply to Building 31 will be disconnected permanently by the end of first quarter in 2026, thereby removing the remaining sources of sanitary wastewater that contribute flow to the sanitary treatment system and Outfall 009. The closure schedule and activities for decommissioning the WWTP and associated outfalls are outlined herein.

3.1 Closure Schedule

Chevron anticipates the following schedule for the closure activities. The anticipated timelines may be adjusted if necessary to address NYSDEC comments to this plan prior to starting work, and to account for unforeseen site and seasonal conditions. While this closure plan for the WWTP is not intended to address Resource Conservation and Recovery Act (RCRA) and/or 6NYCRR Part 373 requirements, elements of these requirements that will impact the WWTP decommissioning, testing and schedule are incorporated herein, where applicable.

- The industrial wastewater treatment system and Outfall 010 ceased operation when the ISS was closed in October 2006. The influent pipes to the treatment system were sealed during the ISS closure. Chevron will confirm sealing of effluent pipe to Outfall 010 by the end of the third quarter 2026.
- The sanitary wastewater treatment system and Outfall 009 will cease operation by the end of third quarter 2026. The influent pipes to the treatment system and the effluent pipe to Outfall 009 will be sealed by the end of fourth quarter of 2026.
- Inactive outfalls – 003, 006, 011, and 012 – will be located and permanently sealed by the end of third quarter 2026.
- Residual hazardous waste will be removed within 90 days in accordance with RCRA requirements (6 NYCRR Part 750-2.11 allows for up to 180 days after the system is taken out of service).
- Chevron will provide NYSDEC Water Division with documentation of proper residual management within 30 days of the removal from the site.

Upon submission of documentation showing the completion of decommissioning and residual management activities in accordance with this plan, NYSDEC will be notified to schedule an inspection of the completed work.

3.2 Final Disposition of Physical Facilities

The final disposition of the physical facilities – sanitary sewer system, sanitary wastewater treatment system, and industrial wastewater treatment system – are outlined herein.

3.2.1 Sanitary Sewer System

For the purposes of this closure plan, an identification number starting with “SN” was assigned for the following sanitary sewer manholes Arcadis was able to locate during the September 2025 site visit – refer to **Figure 2**:

- SN-1, located upstream east of the primary settling tank in the WWTP area.
- SN-2, located upstream of SN-1, in the NW corner of Building 3
- SN-3, located upstream of SN-3, between Building 1 and Buildings 4, 5, and 6 cluster.
- SN-B2 is the southern-most of a three-manhole cluster located in the SE corner of Building 29.
- SN-B5 is the southern-most of a two-manhole cluster located in the SE corner of Building 30.

Prior to ceasing operation of the sanitary wastewater treatment system, the wastewater in the primary settling tank will be drained to the RBC and treated through the treatment system for discharge to Outfall 009. This will provide capacity in the tank for the water that will be generated from flushing the remaining active trunk line from Building 31 and the former field office trailer to the WWTP. This sewer line will be flushed with water to remove any sanitary residuals remaining in the pipe. During line flushing, flow will be observed in the downstream manholes, SN-B5, SN-B2, and SN-1, to confirm the flow path to the WWTP. The water collected in primary settling tank from the line flushing will be sent to the RBC and treated through the system for discharge to Outfall 009.

After completion of the line flushing, potable water supply to Building 31 will be disconnected, the sanitary drains in the building will be plugged and sealed. The above grade 3" polyvinyl chloride (PVC) sanitary pipe from the former field trailer which has been cut to grade, plugged, and capped, will also be flushed and then sealed and/or abandoned in place.

All other sanitary sewer pipes originating from the demolished buildings will remain abandoned in place. Starting from the concrete foundation floor of the demolished buildings, all exposed sanitary drains and cleanouts that can be safely located or accessed will be visually inspected at ground level. Clearing and removal of the vegetation will be required prior to inspection. Any open sanitary drains and cleanouts will be covered with seal-tight covers or grouted in place with approximately 1' of non-shrink grout. Broken sanitary drain/cleanout covers will be removed and sealed. This will prevent stormwater runoff from infiltrating the sanitary sewer system.

For formal closure documentation, each manhole (SN-1, SN-2, SN-3, SN-B2 and SN-B5) will be inspected and documented prior to abandonment (refer to **Figure 2**). Inspection elements will include, but are not limited to the following:

- Manhole size, depth, and condition.
- Presence of water/moisture in the manhole and pipe openings.
- Inlet and outlet pipe size, material of construction, and alignment. To the extent possible, the upstream source for each inlet pipe and the downstream destination for each outlet pipe will be verified with historical drawings and/or field observations of the actual pipe alignment.

Following inspection, each inlet and outlet pipe ends in the structure will be plugged with seal-tight covers or non-shrink grout. After the inlet and outlet pipe ends are sealed, the sanitary sewer manhole structure will be abandoned by filling it with washed, uniformly graded gravel, removing the top of the structure and replacing it with a 6-inch-thick concrete cover, and regrading around the top of structure to eliminate low spots and promote sheet flow away from structure. Refer to the structure and abandonment detail in **Figure 2**.

It is possible that there is another manhole located between SN-1 and SN-B2 near the SW corner of Building 65, but Arcadis was unable to locate it due to heavy vegetation present during the September 2025 site visit. Similar to the drain and cleanout inspection, clearing and removal of the vegetation will be required to facilitate location and inspection of this manhole. Any undocumented sanitary manhole structures uncovered during the closure activities will be inspected and included for closure.

3.2.2 Sanitary Treatment System and Outfall 009

To decommission the sanitary wastewater treatment system, the following general activities will take place and may not necessarily be in sequential order:

- All the influent pipe openings in the primary settling tank will be plugged with non-shrink grout. This will eliminate any flows from entering the treatment system during closure. Other influent or effluent pipes in the tank may be uncovered after the tank is drained. The source and destination of these pipes will be assessed with historical drawings, field observations, and/or closed-circuit television (CCTV) camera.
- Within the treatment system, starting with the primary settling tank, all process equipment will be de-energized with residuals removed and appropriately managed prior to off-site disposal and/or recycling.
- Each unit tank, associated piping, internal tank components will be cleaned and rinsed, generally working from the influent toward the effluent end of the plant.
- Existing wastewater remaining within the treatment system after influent isolation, as well as rinse water from system decommissioning activities, will be treated and discharged to Outfall 009 to the extent practical and as time allows prior to the system operation cessation.
- All remaining wastewater residuals from the treatment system and decommissioning rinse water will be disposed of in accordance with applicable state and federal regulations or hauled to an approved off-site facility for treatment and disposal.
- All chemicals and chemical storage vessels will be removed and disposed of in accordance with applicable state and federal regulations.
- All above grade pipes will be cut to grade and removed with pipe openings sealed and capped.
- All supporting utilities such as compressed air system and HVAC units will be removed and disposed of in accordance with applicable state and federal regulations.
- Electrical systems will be isolated and locked out/tagged out at the point of distribution such as the Motor Control Center (MCC) for larger motorized equipment or the circuit breaker in the case of smaller instrumentation and control circuits.
- The pipe opening at the outfall will be plugged with non-shrink grout, as indicated in **Figure 4**.

Decommissioning activities will extend to include the abandoned former chlorinator system and underground contact tank. To the extent practical, Chevron may opt to salvage clean metal from the treatment system closure for recycling. The equipment decommissioning activities for sanitary wastewater treatment system are summarized in **Appendix D**.

3.2.3 Abandoned Industrial Treatment System and Outfall 010

The equipment decommissioning activities for the industrial wastewater treatment system are also summarized in **Appendix D**. The decommissioning activities will be similar to the sanitary wastewater treatment system with the following differences:

- Since the system ceased operation when the ISS closed in 2006, existing wastewater remaining within the treatment system as well as rinse water from system decommissioning activities will be collected and disposed of in accordance with applicable state and federal regulations or hauled to an approved for use off-site facility for treatment and disposal. Following the initial cleaning activities, temporary covers will be used to minimize rainwater from pooling in the cleaned outdoor tanks that are open – API tanks, EQ tank, and final clarifiers, as needed.
- After the API and EQ tanks are cleaned, the underground effluent pipes from these tanks to the RBC will be flushed prior to inspection. The pipes will be inspected for potential cracks or leaks using CCTV. If no damages are observed, the pipes will be plugged with non-shrink grout on both ends. If cracks or leaks are observed, the compromised segment(s) of the pipe will be excavated and removed, along with the

surrounding soil. The remaining intact piping will be plugged and certified clean fill will be placed where the pipe and soil is removed. Excavated soil will be appropriately characterized and disposed of offsite.

3.3 Elimination of Equipment and/or Conditions that Pose Safety Hazard

Prior to starting decommissioning activities, site preparation work such as vegetation clearing and wastewater removal will be completed, as necessary. After the tanks and associated piping are cleaned, tank access openings will be sealed to minimize infiltration of stormwater runoffs, vermin, and pests. Outdoor open tanks such as the API tanks, EQ tank, and final clarifiers will be cleaned, decommissioned, and demolished or filled with a certified clean fill. Other planned activities to control potential safety hazards at the existing WWTP include the following that were noted previously:

- MCCs and circuit breakers shall be isolated and locked out / tagged out for all out of service equipment to eliminate electrical hazards prior to removal.
- Hydraulic energy will be isolated by the breaking of influent and effluent lines with the cutting and capping of these systems.
- Chemicals utilized in the existing WWTP process shall be removed and properly disposed of in accordance with applicable state and federal regulations.
- All residual materials will be removed from process equipment and piping. This will include tank draining, removal of media, flushing of piping and tanks, collection of residual material, characterization of the residual materials, and disposing of it in accordance with applicable state and federal regulations.

Steps to be taken to minimize safety hazard during or after shut-down of the WWTP are also summarized in **Appendix D**.

3.4 Verification of No Cross Connections

Based on the historical drawings and documents, the industrial sewer, sanitary sewer, and storm sewer are separate sewer systems. The ISS flows to the industrial wastewater treatment system and the sanitary sewer system flows to the sanitary wastewater treatment system. There are no known connections between the two sewer systems and treatment systems at the WWTP. This condition will also be verified as part of the WWTP decommissioning.

3.5 Licensed Individual Responsible for Maintenance and Operation

There are no pump stations that will need to be maintained and operated. All the disposal systems at the WWTP will be decommissioned for permanent closure and therefore, will not require a licensed individual for maintenance and operation.

3.6 Deactivated Lagoons or Other Discharges to Groundwater

There are no lagoons at the Site. The Site has been closed since 2003 and therefore does not have any other discharges to the groundwater. Chevron maintains an ongoing environmental remediation project including a groundwater monitoring program for the Site.

3.7 Residual Management and Removal

The following residual management and removal activities will be performed:

- Proper management and/or removal of all residual materials, filter media, and all other solids from the treatment process that may remain in the abandoned treatment works is required.
- Chevron will submit to the NYSDEC regional water engineer proof of ownership or contractual arrangement with an operation or operations permitted to manage all such waste materials that will be disposed of off-site. A contract with a hauler will only be accepted as proof of proper waste management if documentation of management at an approved site or sites is included. In addition, all necessary State or Federal permits/approvals must accompany the submission. All waste will be disposed of in accordance with EPA Land Disposal Restrictions.
- All residual material shall be removed within 90 calendar days after the system is taken out of service. Proof of proper residuals management shall be submitted to the regional water engineer within 30 calendar days after their removal.

4 Closure Report and Final Inspection

Upon completion of all decommissioning and residual management activities, a certification report documenting these activities will be prepared and stamped by a New York State Licensed Engineer and submitted to the NYSDEC prior to scheduling the final inspection by the NYSDEC. The regional water engineer will be contacted, in writing, to schedule a final site inspection of the WWTP to verify that influent and effluent pipes have been sealed and that all solid and residual materials related to the treatment process have been removed.

5 References

IT Engineering of New York, P.C. 2002. Industrial Sewer System Closure Report, ChevronTexaco Research Center, Beacon, New York. March.

NYSDEC. 2015. SPDES Permit Renewal, dated July 8, 2015.

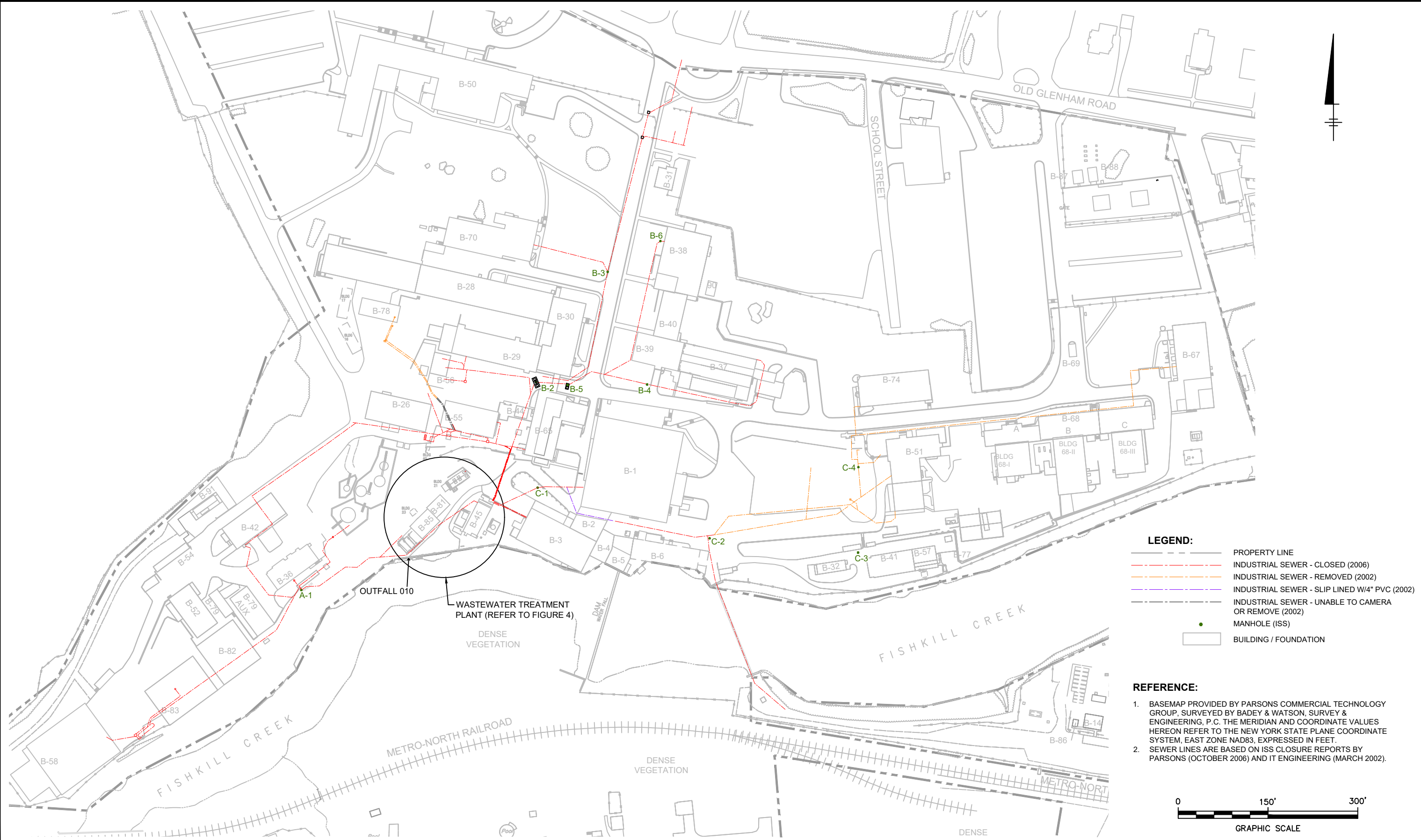
Parsons. 2006. Closure Report, Phase II RCRA Facility Assessment Sampling Visit Interim Corrective Measure: Inactive Line Abandonment, Former Texaco Research Center, Beacon (Glenham), New York. October.

Texaco. 1982. Letter to NYSDEC regarding SPDES Permit No. NY 0005754, dated August 11, 1982

Texaco. 1992. Letter to NYSDEC regarding Draft SPDES Permit No. NY 0005754, Discharge #006 Diversion, dated December 23, 1992.

Figures

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Professional Engineer's Name
KRISTA HANKINS MASTROCOLA, PE

Professional Engineer's No.
092498

State
NY

Date Signed
2/24/2026

Project Mgr.
EM

Designed by
NL

Drawn by
RTS

Checked by
DH



ARCADIS

ARCADIS US., INC.

CHEVRON ENVIRONMENTAL MANAGEMENT Co. - FORMER TEXACO BEACON RESEARCH CENTER - BEACON, NEW YORK
CLOSURE PLAN FOR SPDES PERMIT #NY0005754

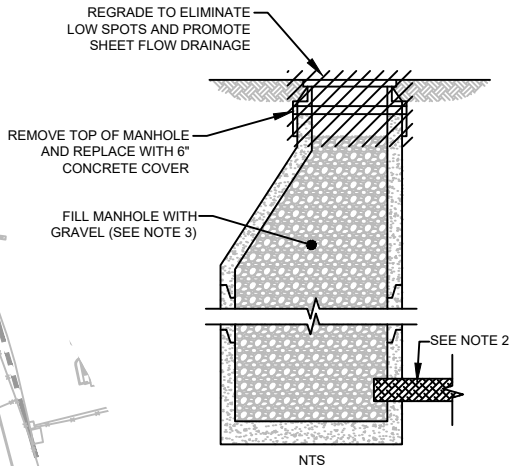
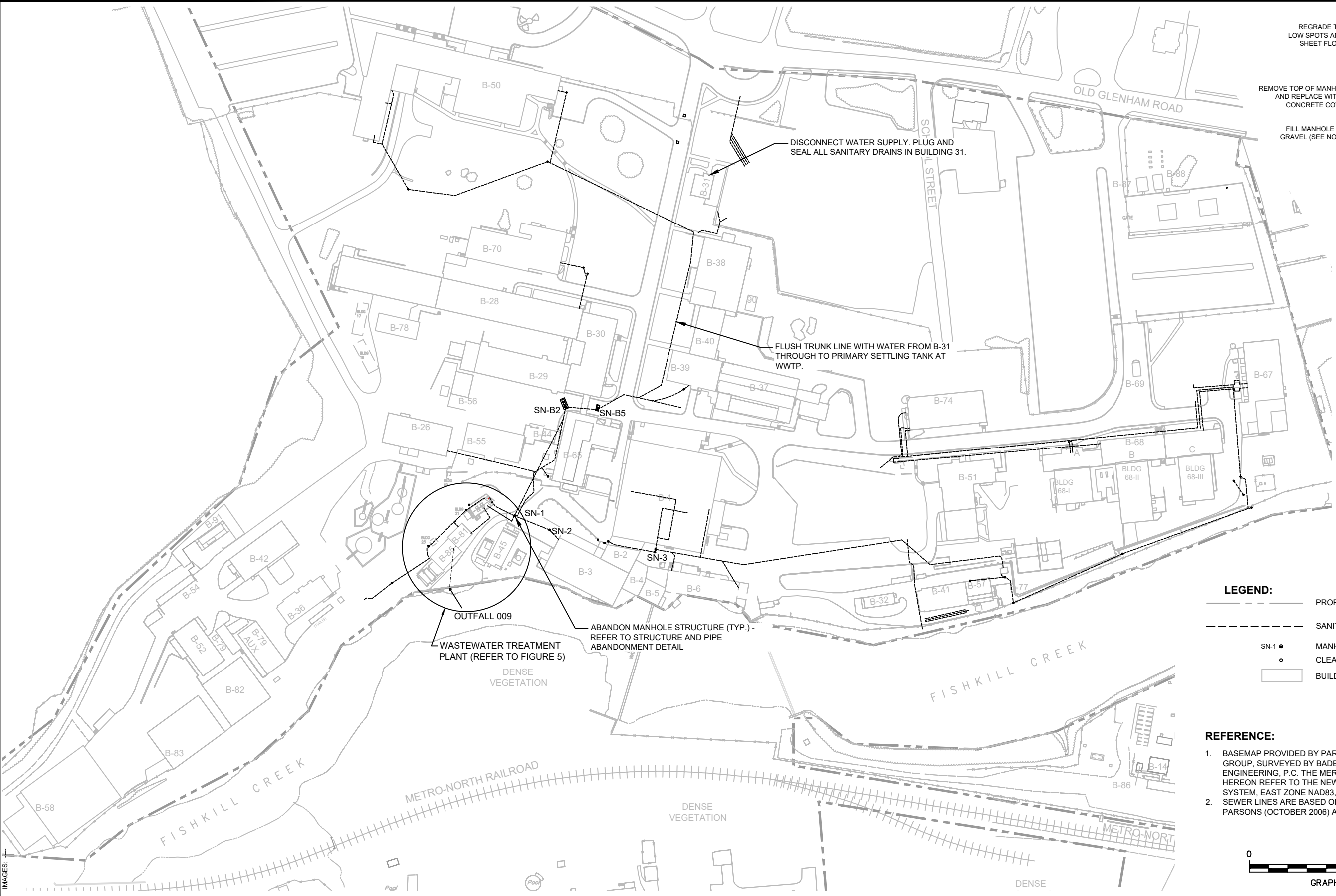
INDUSTRIAL SEWER SYSTEM

ARCADIS Project No.
30246096

Date
FEBRUARY 2026

ARCADIS
44 S. Broadway #1200
White Plains, NY 10601
Tel. 914-694-2100

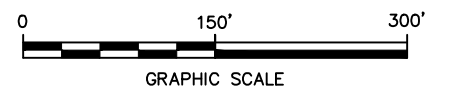
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- NOTES:**
1. A CYLINDRICAL MANHOLE IS DEPICTED BUT ALL DETAILS APPLY TO ANY GEOMETRY.
 2. ABANDON EXISTING PIPE. PLUG AND SEAL OPENING WITH NON-SHRINK GROUT.
 3. GRAVEL SHALL BE WASHED, UNIFORMLY GRADED MIXTURE OF CRUSHED OR UNCRUSHED GRAVEL WITH 100 PERCENT PASSING A 1.5-INCH SIEVE AND NOT MORE THAN 5 PERCENT PASSING A NO. 4 SIEVE.

- LEGEND:**
- PROPERTY LINE
 - - - - - SANITARY SEWER
 - SN-1 MANHOLE (SANITARY SEWER)
 - CLEANOUT (SANITARY SEWER)
 - ▭ BUILDING / FOUNDATION

- REFERENCE:**
1. BASEMAP PROVIDED BY PARSONS COMMERCIAL TECHNOLOGY GROUP, SURVEYED BY BADEY & WATSON, SURVEY & ENGINEERING, P.C. THE MERIDIAN AND COORDINATE VALUES HEREON REFER TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, EAST ZONE NAD83, EXPRESSED IN FEET.
 2. SEWER LINES ARE BASED ON ISS CLOSURE REPORTS BY PARSONS (OCTOBER 2006) AND IT ENGINEERING (MARCH 2002).



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Professional Engineer's Name
KRISTA HANKINS MASTROCOLA, PE

Professional Engineer's No.
092498

State
NY

Date Signed
2/24/2026

Project Mgr.
EM

Designed by
NL

Drawn by
RTS

Checked by
DH



CHEVRON ENVIRONMENTAL MANAGEMENT Co. - FORMER TEXACO BEACON RESEARCH CENTER - BEACON, NEW YORK
CLOSURE PLAN FOR SPDES PERMIT #NY0005754

SANITARY SEWER SYSTEM

ARCADIS Project No.
30246096

Date
FEBRUARY 2026

ARCADIS
44 S. Broadway #1200
White Plains, NY 10601
Tel. 914-694-2100

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LEGEND:

	PROPERTY LINE
	STORM SEWER
	MANHOLE OR CATCHBASIN (STORM SEWER)
	CLEANOUT (STORM SEWER)
	BUILDING / FOUNDATION

- REFERENCE:**
- BASEMAP PROVIDED BY PARSONS COMMERCIAL TECHNOLOGY GROUP, SURVEYED BY BADEY & WATSON, SURVEY & ENGINEERING, P.C. THE MERIDIAN AND COORDINATE VALUES HEREON REFER TO THE NEW YORK STATE PLANE COORDINATE SYSTEM, EAST ZONE NAD83, EXPRESSED IN FEET.
 - SEWER LINES ARE BASED ON ISS CLOSURE REPORTS BY PARSONS (OCTOBER 2006) AND IT ENGINEERING (MARCH 2002).



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Professional Engineer's Name
KRISTA HANKINS MASTROCOLA, PE

Professional Engineer's No.
092498

State
NY

Date Signed
2/24/2026

Project Mgr.
EM

Designed by
RTS

Drawn by
DH

Checked by
DH



ARCADIS

ARCADIS US., INC.

CHEVRON ENVIRONMENTAL MANAGEMENT Co. - FORMER TEXACO BEACON RESEARCH CENTER - BEACON, NEW YORK
CLOSURE PLAN FOR SPDES PERMIT #NY0005754

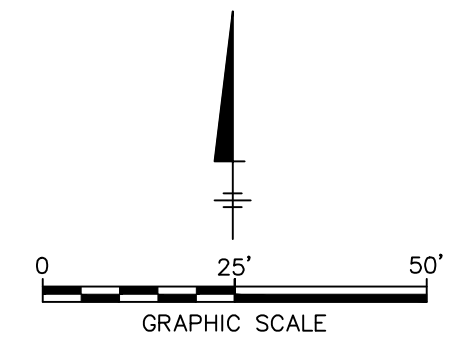
STORM SEWER SYSTEM AND INACTIVE OUTFALLS

ARCADIS Project No.
30246096

Date
FEBRUARY 2026

ARCADIS
44 S. Broadway #1200
White Plains, NY 10601
Tel. 914-694-2100

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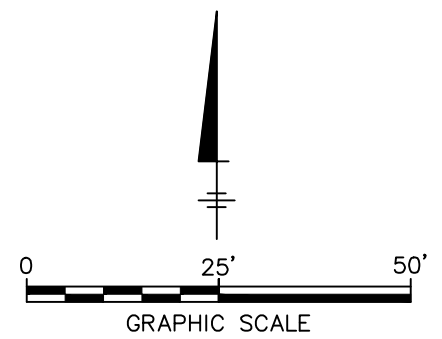


- LEGEND:**
- PROPERTY LINE
 - - - - - INDUSTRIAL SEWER - CLOSED (2006)
 - - - - - INDUSTRIAL SEWER
 - - - - - INDUSTRIAL SEWER - PLANNED FOR CLOSURE
 - ▭ BUILDING / FOUNDATION

REFERENCE: AERIAL DATED APRIL 2016 DOWNLOADED FROM GOOGLE EARTH.

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No.	Date	Revisions	By	Ckd													

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- LEGEND:**
- PROPERTY LINE
 - - - - SANITARY SEWER
 - ▭ BUILDING / FOUNDATION

REFERENCE: AERIAL DATED APRIL 2016 DOWNLOADED FROM GOOGLE EARTH.

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Appendix A

- **SPDES Permit effective August 1, 2015,**
- **Texaco Letter to NYSDEC dated December 23, 1992, and**
- **Texaco Letter to NYSDEC dated August 11, 1982.**

New York State Department of Environmental Conservation

Division of Environmental Permits

NYSDEC HEADQUARTERS
625 BROADWAY
ALBANY, NY 12233
(518) 402-9167



SPDES PERMIT RENEWAL

7/8/2015

MICHAEL W LAWLER
BEACON TECHNOLOGY CENTER
PO BOX 509
BEACON NY 12508

Permittee Name: CHEVRON USA INC
Facility Name: BEACON TECHNOLOGY CENTER
Ind. Code: 8731 County: DUTCHESS
DEC ID: 3-1330-00048/00004 SPDES No.: NY0005754
Permit Effective Date: 8/1/2015
Permit Expiration Date: 7/31/2020

Dear Permittee,

The State Pollutant Elimination System (SPDES) permit renewal for the facility referenced above is approved with the new effective and expiration dates. This letter together with the previous valid permit for this facility effective on 08/01/2010 and any subsequent modifications constitute authorization to discharge wastewater in accordance with all terms, conditions and limitations specified in the previously issued permit(s).

As a reminder, SPDES permits are renewed at a central location in Albany in order to make the process more efficient. All other concerns with your permit, including applications for permit modification or transfer to a new owner, a name change, and other questions, should be directed to:

Regional Permit Administrator
NYSDEC Region 3 Headquarters
21 S Putt Corners Rd
New Paltz, NY 12561
(845) 256-3185

If you have already filed an application for modification of your permit, it will be processed separately by that office.

If you have questions concerning this permit renewal, please contact LINDY SUE CZUBERNAT at (518) 402-9167.

Sincerely,

Stuart M. Fox
Deputy Chief Permit Administrator

CC:
RPA
BWC

RWE
File

BWP
EPA



Application For Permit Transfer and Application for Transfer of Pending Application
(In Accordance with Uniform Procedures, 6NYCRR Part 621)

NOTE: Please read ALL instructions before completing this application. Please TYPE or PRINT clearly in ink.

PART 1 - TRANSFEREE (New Owner/Operator/Lessee/Applicant) COMPLETES:

1. LIST PERMIT NUMBER(S) AND THEIR EFFECTIVE AND EXPIRATION DATES
#1330-0048/16-0 Effective: 09/26/2002 Expiration: 09/26/10
LIST PENDING APPLICATION NUMBER(S):
N/A

2. NAME OF TRANSFEREE
CHEVRON USA, INC.
STREET ADDRESS, CITY, STATE, ZIP CODE
6001 Bollinger Canyon Rd., San Ramon, CA 94583-2324
TELEPHONE NUMBER (Daytime)
(925) 975-4319 (Corporate Law) 842-1738 (Department)
TRANSFEREE IS WAN: Owner Operator Lessee Applicant Municipality/Governmental Agency (check all that apply)

3. NAME OF FACILITY/PROJECT
BEACON TECHNOLOGY CENTER
STREET ADDRESS, CITY, STATE, ZIP CODE
Old Glennan Rd., PO Box 509, Beacon, New York 12527
COUNTY: Dutchess TOWN: Fishkill
4. FACILITY CONTACT NAME
MICHAEL W. LAWLER, SITE SUPERVISOR
STREET ADDRESS, CITY, STATE, ZIP CODE
45 Old Glennan Road, PO Box 509, Beacon, New York 12527
TELEPHONE NUMBER (Daytime) (845) 838-7428

5. HAS WORK BEGUN ON THE PROJECT? (Transfer of Existing Facility and Permit)
Yes No If "No," proposed starting date: _____ Approximate completion date: _____
If there will be any modifications to the current or proposed operation or construction, the transferee must attach a statement specifying the details.

6. CERTIFICATION: This certifies that the transferee seeks to be the legally responsible party for operations or project development either authorized by the permits identified above or proposed in applications identified above. The transferee has a copy of the permit(s) and/or application(s) and understands and will comply with all conditions in the referenced permit(s) and supports the content of referenced application(s). Facility operations/project scope/discharges/emissions will remain the same as authorized or as proposed in pending applications. Further, I hereby affirm that under penalty of perjury that information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.
Printed Name and Title of Transferee: Chevron U.S.A. Inc. By Allen H. Uzzell, Asst. Secretary
Signature of Transferee: [Signature] Date: Feb 25, 2003

PART 2 - TRANSFEROR (Present) or Former Owner/Operator/Lessee/Applicant) COMPLETES:

1. NAME OF TRANSFEROR
TEXACO, INC.
STREET ADDRESS, CITY, STATE, ZIP CODE
6001 Bollinger Canyon Road, San Ramon, CA 94583-2324
TELEPHONE NUMBER (Daytime)
(925) 975-4319 (Corporate Law) 842-1728 (Department)
If other than an individual, provide Taxpayer ID Number: 74-1383447

2. NAME OF FACILITY/PROJECT, if different from Facility Name in Part 1: Texaco Research Center-Beacon/Texaco Fuel

3. CERTIFICATION: This certifies that the facility and/or application referenced in Part 1 of this form will be / was transferred to the party Subscribers (identified as the new transferee (owner/operator/lessee/applicant) on December 31, 2002 (date).
Printed Name and Title of Transferor: Texaco Inc. By W. Keith Turner, Assistant Secretary
Signature of Transferor: [Signature] Date: 9/25/02

PART 3 - PERMIT TRANSFER VALIDATION SECTION - DEPARTMENT OF ENVIRONMENTAL CONSERVATION COMPLETES:

Transfer of permit approved, effective as of 2/28/03. Transferee subject to conditions of original permit, without exception.
 Transfer of permit approved, with the following modifications or contingencies related to this Permit Transfer:

RE HAZARDOUS WASTE PERMIT
DISTRIBUTION - SEE COVER LETTER

See attached revised permit page(s).
 Transfer of application approved. See attached for additional information required.
 Transfer denied, new application required. Please complete the enclosed permit application and return it to the undersigned Regional Permit Administrator at the address listed on the reverse side of this form.

PERMIT ADMINISTRATOR
Name: William E. Steidle Signature: [Signature] Date: 7/28/03



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 Application For Permit Transfer and Application for Transfer of Pending Application
 (In Accordance with Uniform Procedures, 6NYCRR Part 621)

RECEIVED
 NOV - 1 2002/01

NOTE: Please read ALL instructions before completing this application. Please TYPE or PRINT clearly in ink.

PART 1 - TRANSFEREE (New Owner/Operator/Lessee/Applicant) COMPLETES:

1. LIST PERMIT NUMBER(S) AND THEIR EFFECTIVE AND EXPIRATION DATES: Effective: 12/30/98 #3-1330-0048/00038 Expiration: 12/30/03	LIST PENDING APPLICATION NUMBER(S) N/A
2. NAME OF TRANSFEREE CHEVRON U.S.A. INC. STREET ADDRESS, CITY, STATE, ZIP CODE 6001 Bollinger Canyon Road, San Ramon, California 94583-2324	If other than an individual, provide Taxpayer ID Number 15-0527925 TELEPHONE NUMBER (Daytime) (925) 842-1738 (Corporate Law Department)
TRANSFEREE IS MAIN: <input checked="" type="checkbox"/> Owner <input checked="" type="checkbox"/> Operator <input type="checkbox"/> Lessee <input type="checkbox"/> Applicant <input type="checkbox"/> Municipality/Governmental Agency (check all that apply)	
3. NAME OF FACILITY/PROJECT BEACON TECHNOLOGY CENTER STREET ADDRESS, CITY, STATE, ZIP CODE Old Glenham Road, PO Box 509, Beacon, NY 12527 COUNTY Dutchess TOWN Fishkill	4. FACILITY CONTACT NAME Michael W. Lawler (Site Supervisor) STREET ADDRESS, CITY, STATE, ZIP CODE 45 Old Glenham Road, PO Box 509, Beacon, NY 12527 TELEPHONE NUMBER (Daytime) (845) 838-7428
5. HAS WORK BEGUN ON THE PROJECT (Transfer of Existing Facility and Permit) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> If "No," proposed starting date: _____ Approximate completion date: _____ If there will be any modifications to the current or proposed operation or construction, the transferee must attach a statement specifying the details.	
6. CERTIFICATION: This certifies that the transferee seeks to be the legally responsible party for operations or project development either authorized by the permits identified above or proposed in applications identified above. The transferee has a copy of the permit(s) and/or application(s) and understands and will comply with all conditions in the referenced permit(s) and supports the content of referenced application(s). Facility operations/project scope/discharges/emissions will remain the same as authorized or as proposed in pending applications. Further, I hereby affirm that under penalty of perjury that information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law. CHEVRON U.S.A. INC. Printed Name and Title of Transferee By: _____ Title: Vice President and Assistant Secretary Signature of Transferee <i>Michael W. Lawler</i> Date: 10-23-02	

PART 2 - TRANSFEROR (Present or Former Owner/Operator/Lessee/Applicant) COMPLETES:

1. NAME OF TRANSFEROR TEXACO INC. STREET ADDRESS, CITY, STATE, ZIP CODE 6001 Bollinger Canyon Road, San Ramon, California 94583-2324	If other than an individual, provide Taxpayer ID Number 74-1383447 TELEPHONE NUMBER (Daytime) (925) 842-1738 (Corporate Law Department)
2. NAME OF FACILITY/PROJECT, if different from Facility Name in Part 1: TEXACO AT BEACON	
3. CERTIFICATION: This certifies that the facility and/or application referenced in Part 1 of this form <input checked="" type="checkbox"/> will be <input type="checkbox"/> was transferred to the party identified as the new transferee (owner/operator/lessee/applicant) on 12/31/02 (date) By: TEXACO INC. Printed Name and Title of Transferor _____ Title: Assistant Secretary Signature of Transferor <i>Michael W. Lawler</i> Date: 10-23-02	

PART 3 - PERMIT TRANSFER VALIDATION SECTION - DEPARTMENT OF ENVIRONMENTAL CONSERVATION COMPLETES:

Transfer of permit approved, effective as of 2/28/03. Transferee subject to conditions of original permit, without exception.
 Transfer of permit approved, with the following modifications or contingencies related to this Permit Transfer:
 RC: AIR RESOURCES (TITLE V)
 DISTRIBUTION: SEE COVER LETTER

See attached revised permit page(s).
 Transfer of application approved. See attached for additional information required.
 Transfer denied, new application required. Please complete the enclosed permit application and return it to the undersigned Regional Permit Administrator at the address listed on the reverse side of this form.

PERMIT ADMINISTRATOR Name: WILLIAM C. STERILE Signature: *William C. Sterile* Date: 2/28/03

New York State Department of Environmental Conservation

Division of Environmental Permits, Room 538

50 Wolf Road, Albany, New York 12233-1760

Phone: (518) 457-2224 • FAX: (518) 457-5965

Website: www.dec.state.ny.us



John P. Cahill
Commissioner

January 04, 2000

FRED JARDINICO
TEXACO INC
PO BOX 509
BEACON, NY 12508

FACILITY INFORMATION

TEXACO AT BEACON
LOCATION : FISHKILL (T)
COUNTY : DUTCHESS
DEC NO : 3-1330-00048-00004-
SPDES NO : NY 000 5754

Dear SPDES Permittee:

Enclosed please find your renewed State Pollutant Discharge Elimination System (SPDES) permit. This renewal permit together with the previously issued valid permit constitute authorization to discharge wastewater in accordance with all terms, conditions and limitations specified in your previously issued permit, including any valid modifications.

The instructions and other information that you received with the NOTICE/RENEWAL APPLICATION/PERMIT package fully described procedures for renewal and modification of your SPDES permit under the Environmental Benefit Permit Strategy (EBPS). As a reminder, SPDES permits are renewed at a central location in Albany in order to make the process more efficient. All other concerns with your permit such as applications for permit modifications, permit transfers to a new owner, name changes, and other questions should be directed to the Regional Permit Administrator at the following address:

Margaret Duke
NYSDEC REGION 3
21 S Putt Corners Rd
New Paltz, NY 12561-1696
(914) 256-3059

If you have already filed an application for modification of your permit, it will be processed separately through our regional office. If you have questions concerning this permit renewal, please contact Deborah Knight at (518) 457-3015.

Sincerely,

Barbara B. Rinaldi
Deputy Chief Permit Administrator

Enclosure

cc: RPA
RWE
BWP

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
State Pollutant Discharge Elimination System (SPDES)
NOTICE / RENEWAL APPLICATION / PERMIT



Please read ALL instructions on the back before completing this application form. Please TYPE or PRINT clearly in ink.

PART 1 - NOTICE 10/15/1999

Permittee Contact Name, Title, Address

Facility and SPDES Permit Information

TEXACO INC
~~LAWRENCE R. TRAMER~~ FRED JARDINICO
PO BOX 509
BEACON NY 12508

AT BEACON

Name: ~~TEXACO RESEARCH & DEVELOPMENT CO~~
Ind Code: 8731 County: DUTCHESS
DEC No. 3-1330-00048/00004
SPDES No. NY 000 5754
Expiration Date: 08/01/2000
Application Due By: 02/03/2000

Are these name(s) & address(es) correct? If no, please write corrections above.

The State Pollutant Discharge Elimination System Permit for the facility referenced above expires on the date indicated. You are required by law to file a complete renewal application at least 100 days prior to expiration of your current permit. Note the "Application Due By" date above.

CAUTION: This short application form and attached questionnaire are the only forms acceptable for permit renewal. Sign Part 2 below and mail only this form and the completed questionnaire using the enclosed envelope. Effective April 1, 1994 the Department no longer assesses SPDES application fees.

If there are changes to your discharge, or to operations affecting the discharge, then in addition to this renewal application, you must also submit a separate permit modification application to the Regional Permit Administrator for the DEC region in which the facility is located, as required by your current permit. See the reverse side of this page for instructions on filing a modification request.

PART 2 - RENEWAL APPLICATION

CERTIFICATION: I hereby affirm that under penalty of perjury that the information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to section 210.45 of the Penal Law.

Mr Robert Trams ACTING MANAGER - BEACON FACILITY
Name of person signing application (see instructions on back) Title
Robert J. Trams 10/27/99
Signature Date

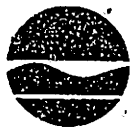
PART 3 - PERMIT (Below this line - Official Use Only)

Effective Date: 08/01/00 Expiration Date: 08/01/05
Barbara B. Rinaldi NYSDEC - Division of Environmental Permits
Permit Administrator Address: Bureau of Environmental Analysis
Barbara B. Rinaldi 50 Wolf Road, Albany, NY 12233-1750
Signature 1/4/00
Date

This permit together with the previous valid permit for this facility issued 07/18/95 and subsequent modifications constitute authorization to discharge wastewater in accordance with all terms, conditions and limitations specified in the previously issued valid permit, modifications thereof or issued as part of this permit, including any special or general conditions attached hereto. Nothing in this permit shall be deemed to waive the Department's authority to initiate a modification of this permit on the grounds specified in 6NYCRR §621.14, 6NYCRR §754.4 or 6NYCRR §757.1 existing at the time this permit is issued or which arise thereafter.

Attachments: General Conditions dated 11/1/90

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
State Pollutant Discharge Elimination System (SPDES)
DISCHARGE PERMIT
Special Conditions (Part I)



Industrial Code: 8731
Discharge Class (CL): 01
Toxic Class (TX): T
Major Drainage Basin: 13
Sub Drainage Basin: 04
Water Index Number: H-95 Portion
Compact Area: -

SPDES Number: NY - 0005754
DEC Number: 3-133000048/00004-0
Effective Date (EDP): 08/01/95
Expiration Date (ExDP): 08/01/00
Modification Date(s): _____
Attachment(s): General Conditions (Part II) Date: 11/90

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the Clean Water Act as amended, (33 U.S.C. Section 1251 et. seq.) (hereafter referred to as "the Act").

PERMITTEE NAME AND ADDRESSAttention: Monica HeaveyName: Texaco Inc.Street: P.O. Box 509City: BeaconState: NY Zip Code: 12508

is authorized to discharge from the facility described below:

FACILITY NAME AND ADDRESSName: Texaco Research & Development - BeaconLocation (C,T,V): Fishkill (T) County: DutchessFacility Address: Old Glenham RoadCity: GlenhamState: NY Zip Code: 12527NYTM - E: _____ NYTM - N: 4From Outfall No.: 003 at Latitude: 41° 31' 01" & Longitude: 73° 56' 21"into receiving waters known as: Fishkill Creek Class: C

and; (list other Outfalls, Receiving Waters & Water Classifications)

006, 011, 012 - Fishkill Creek Class: C

008 - Fishkill Creek Class: C

009 - Fishkill Creek Class: C

010 - Fishkill Creek Class: C

in accordance with the effluent limitations, monitoring requirements and other conditions set forth in Special Conditions (Part I) and General Conditions (Part II) of this permit.

DISCHARGE MONITORING REPORT (DMR) MAILING ADDRESSMailing Name: Texaco Inc.Street: P.O. Box 509City: BeaconState: NY Zip Code: 12508Responsible Official or Agent: Lawrence R. Trammell Phone: (914) 831-3400

This permit and the authorization to discharge shall expire on midnight of the expiration date shown and the permittee shall not discharge after the expiration date unless this permit has been renewed, or extended pursuant to law. To be authorized to discharge beyond the expiration date, the permittee shall apply for a permit renewal no less than 180 days prior to the expiration date shown above.

Enclosures
Distribution

Permit Administrator: <u>Michael D. Merriman</u> <u>LRW</u>	
Address: <u>21 South Patt Corners Rd. New Paltz NY</u>	
Signature: <u>Michael D. Merriman</u>	Date: <u>2/23/99</u>

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSDuring the period beginning August 1, 1995and lasting until August 1, 2000

the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Number & Effluent Parameter	Discharge Limitations		Units	Minimum Monitoring Requirements	
	Daily Avg.	Daily Max.		Measurement Frequency	Sample Type
<u>003 - Non-Contact Cooling Water & Storm Water</u>					
Flow	NA	Monitor	GPD	Continuous ¹	Recorder
TOC	NA	10 (net)	mg/l	Monthly	Grab
Solids, Suspended	NA	20 (net)	mg/l	Monthly	Grab
Temperature	NA	Monitor ²	Deg. F	Weekly	Grab
pH (Range)	NA	Monitor ³	SU's	2/month	Grab
Zinc, Total	NA	Monitor ⁴	lbs/day	Monthly	Grab

006 - Emergency Overflow for Microtraier System

Report each overflow occurrence in a letter describing the circumstances of duration of the event which is to be appended to the next regular DMR submission.

008 - Non-Contact Cooling Water & Storm Water

Flow	NA	Monitor	GPD	2/month ¹	Calculated
TOC	NA	10 (net)	mg/l	Monthly	Grab
Solids, Suspended	NA	20 (net)	mg/l	Monthly	Grab
Temperature	NA	Monitor ²	Deg. F	Weekly	Grab
pH (Range)	NA	Monitor ³	SU's	2/month	Grab
Zinc, Total	NA	Monitor ⁴	lbs/day	Monthly	Grab

¹ The flow for each discharge 003 and 008 shall be determined from recorder data, measured, or estimated, twice each month during the months of June, July, August, September and October. The day of flow monitoring for these discharges is to coincide with a day of temperature measurements and no or minimal storm water flow. For the months November through May this frequency is reduced to monthly.

² The water temperature at the surface of the receiving stream shall not be raised to more than 32.2°C (90°F) at any point. Further, in at least 50% of the cross-sectional areas and/or volume of the flow of the stream including at least a minum of 1/3 of the surface measured fromshore to shore shall not be raised to more than 2.8°C (5°F) at any point over the temperature that existed before the addition of heat of artificial origin or to a maximum of 30.0°C (86°F) whichever is less. However, the 30.0°C (86°F) maximum temperature limitation shall not apply when the temperature of the receiving waters upstream of the permittee's discharges is greater than 30.0° (86°F). Under such conditions, the temperature of the receiving waters downstream of the permittee's discharges shall not exceed the upstream temperature. "The receiving water temperature shall be measured both at the Maple Street Bridge and within 90 feet of the most westerly discharge at approximately the same time as the temperature measurements for all outfalls."

³ For these effluents: The pH shall not be less than 6.5 nor greater than 8.5 standard units when the pH of the intake water from Fishkill Creeks within the range of 6.7 to 8.3 standard units. When the intake water pH is less than 6.7 standard units, the effluent pH shall not be more than 0.2 standard units less than the intake water pH. When the intake water pH is greater than 8.3 standard units, the effluent pH shall not be more than 0.2 standard units greater than the intake water pH.

⁴ The sum of outfalls 3,8,9, & 10 shall be 1.0 lbs/day.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTSDuring the period beginning August 1, 1995and lasting until August 1, 2000

the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Number & Effluent Parameter	Discharge Limitations			Minimum Monitoring Requirements	
	Daily Avg.	Daily Max.	Units	Measurement Frequency	Sample Type
009 Sanitary					
Flow	Monitor	35,000	GPD	Continuous	Recorder
BOD ₅	5.0	9.4	lbs/day	2/month	24 hr. comp.
	24 ⁵	45 ⁶	mg/l	2/month	24 hr. comp.
Solids, Suspended	30 ⁵	45 ⁶	mg/l	2/month	24 hr. comp.
Settleable Solids	NA	0.1	ml/l	Daily	Grab
Temperature	NA	Monitor ⁷	Deg. F	Weekly	Grab
pH (Range)		6.5-8.5 ⁸	SU's	Weekly	Grab
Oil & Grease	1.7	4.3	lbs/day	Monthly	Grab
	NA	15	mg/l	Monthly	Grab
Chlorine, Total Residual	0.5 minimum	2.0	mg/l	5x/week ¹⁰	Grab
Fecal Coliform	200	400	CFU/100ml	2/month	Grab
Zinc, Total	NA	Monitor ¹¹	lbs/day	Monthly	Grab

⁵ This average shall be the arithmetic mean over a period of 30 consecutive days.

⁶ This maximum shall be the arithmetic mean over a period of 7 consecutive days.

⁷ The water temperature at the surface of the receiving stream shall not be raised to more than 32.2°C (90°F) at any point. Further, in at least 50% of the cross-sectional areas and/or volume of the flow of the stream including at least a minimum of 1/3 of the surface measured from shore to shore shall not be raised to more than 2.8°C (5°F) at any point over the temperature that existed before the addition of heat of artificial origin or to a maximum of 30.0°C (86°F) whichever is less. However, the 30.0°C (86°F) maximum temperature limitation shall not apply when the temperature of the receiving waters upstream of the permittee's discharges is greater than 30.0°C (86°F). Under such conditions, the temperature of the receiving waters downstream of the permittee's discharges shall not exceed the upstream temperature. "The receiving water temperature shall be measured both at the Maple Street Bridge and within 90 feet of the most westerly discharge at approximately the same time as the temperature measurements for all outfalls"

⁸ The pH shall not be less than 6.5 nor greater than 8.5 standard units. This remains the case when the pH of the intake water is taken from Fishkill Creek and the pH range is within 6.7 to 8.3 standard units. In the event the intake water originates from Fishkill Creek and the influent pH is less than 6.7 standard units, the effluent pH shall not be more than 0.2 standard units less than the intake water pH. Likewise, when the intake water pH from Fishkill Creek is greater than 8.3 standard units, the effluent pH shall not be more than 0.2 standard units greater than the intake water pH.

⁹ The sum of the discharge from outfalls 009 and 010 shall average not more than .1 pounds per day on a 30 day average nor exceed .4 pounds per day as a daily maximum of 1,1,1-trichloroethane. The poundage shall be calculated using the average concentrations and the total flow for the sampling day. The average concentration shall be calculated using the average concentrations and the total flow for the sampling day. The average concentration shall be calculated to be a weighted average proportional to the total flow during the period represented by each sample. One sample shall be taken at 8:00 a.m. and one sample 4:00 p.m. to compute the average.

¹⁰ For weeks with 5 business days. When the facility is closed or not operating due to holiday or other reason sampling must be conducted for only the actual operating days or "business days". Texaco shall provide the reason for not sampling 5x/week appended to the applicable DMR.

¹¹ The sum of outfalls 3, 8, 9 & 10 shall be 1.0 lbs/day.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning EDPand lasting until EDP + 5 YEARS

the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Number Effluent Parameter	Discharge Limitations			Minimum Monitoring Requirements	
	Daily Avg.	Daily Max.	Units	Measurement Frequency	Sample Type
<u>010 - Lab Drains, Misc. Cooling Storm Water, Boiler Blowdown & Contaminated GW Recovery</u>					
Flow	Monitor	0.540	MGD	Continuous	Recorder
BOD ₅	85 net	195 net	lbs/day	2/month	24 hr. comp.
Solids, Suspended	40	147	lbs/day	2/month	24 hr. comp.
	30	45	mg/l		
Temperature	NA	Monitor ¹²	Deg. F	Weekly	Grab
pH (Range)		6.5-8.5 ¹³	SU's	2/month	Grab
Oil & Grease	50	75	lbs/day	2/month	Grab
	NA	15	mg/l		
Benzene	Monitor	0.121	lbs/day	2/month	Grab
Toluene	Monitor	0.121	lbs/day	2/month	Grab
Xylene, Total	Monitor	0.121	lbs/day	2/month	Grab
Ethylbenzene	Monitor	0.121	lbs/day	2/month	Grab
Zinc, Total	NA	Monitor ¹⁵	lbs/day	monthly	Grab

Note: It is the responsibility of a discharger to report any substances or parameters that are discharged to the waters of the State that are not covered by a SPDES permit. Therefore, it follows that should Texaco, at some time in the future, plan to use one or more of the isomers Dichlorobenzene in a manner that is likely to impact wastewater effluents Texaco then must apply for a permit modification.

¹² The water temperature at the surface of the receiving stream shall not be raised to more than 32.2°C (90°F) at any point. Further, in at least 50% of the cross-sectional areas and/or volume of the flow of the stream including at least a minum of 1/3 of the surface measured fromshore to shore shall not be raised to more than 2.8°C (5°F) at any point over the temperature that existed before the addition of heat of artificial origin or to a maximum of 30.0°C (86°F) whichever is less. However, the 30.0°C (86°F) maximum temperature limitation shall not apply when the temperature of the receiving waters upstream of the permittee's discharges is greater than 30.0° (86°F). Under such conditions, the temperature of the receiving waters downstream of the permittee's discharges shall not exceed the upstream temperature. "The receiving water temperature shall be measured both at the Maple Street Bridge and within 90 feet of the most westerly discharge at approximately the same time as the temperature measurements for all outfalls."

¹³ Except as noted below, the pH shall not be less than 6.5 nor greater than 8.5 standard units. This remains the case when the pH of the intake water taken from Fishkill Creek is within the range of 6.7 to 8.3 standard units. When the intake water originates from Fishkill Creek and the influent pH is less than 6.7 standard units, the effluent pH shall not be more than 0.2 standard units less than the intake water pH. Likewise, when the intake water pH from Fishkill Creek is greater than 8.3 standard units, the effluent pH shall not be more than 0.2 standard units greater than the intake water pH.

¹⁴ The sum of the discharge from outfalls 001 and 010 shall average not more than .1 pounds per day on a 30 day average nore exceed .4 pounds per day as a daily maximum of 1,1,1,-trichloroethane. The poundage shall be calculated using the average concentrations and the total flow for the sampling day. The average concentration shall be calculated to be a weighted average proportional to the total flow during the period represented by each sample. One sample shall be taken at 8:00 a.m. and one sample 4:00 p.m. to compute the average.

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 1, 1995and lasting until August 1, 2000

the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Number & Effluent Parameter	Discharge Limitations		Units	Minimum Monitoring Requirements	
	Daily Avg.	Daily Max.		Measurement Frequency	Sample Type
<u>011 - Emergency Bypass, after the grit trap and to oil water separator, of the 010 secondary treatment system¹⁶</u>					
Results of USEPA Method 624 analysis	NA	Monitor	ug/l	Each Occurrence	Grab
Oil & Grease	NA	15	mg/l	Each Occurrence	Grab
<u>012 - Emergency Bypass, after the primary settling tank, of the 009 secondary treatment system¹⁶</u>					
BOD ₅	NA	Monitor	mg/l	Each Occurrence	Grab
Solids, Suspended	NA	Monitor	mg/l	Each Occurrence	Grab

¹⁶ Consistent with the general conditions 5b. & 11.2 attached to this permit, notification by telephone, fax or overnight mail of each and every bypass event shall be made to the Region 3 Regional Water Engineer or his duly authorized representative within 24 hours of an event, or from the time Texaco becomes aware of the event.

A written account of each and every bypass event shall be prepared within 5 working days of each and every bypass event occurrence for submittal to or inspection by the Department when requested.

ACTION LEVEL REQUIREMENTS (TYPE I)

The parameters listed below have been reported present in the discharge but at levels that currently do not require technology or water quality based limits. Action levels have been established which, if routinely or excessively exceeded, will result in reconsideration and/or development of technology or water quality based limits.

Routine action level monitoring results, if not provided for on the Discharge Monitoring Report (DMR) form, shall be appended to the DMR for the period during which the sampling was conducted. If submission of DMR's is not required by this permit, the results shall be maintained in accordance with instructions on the RECORDING, REPORTING AND MONITORING page of this permit.

If any of the action levels is exceeded, the permittee shall undertake a short-term, high-intensity monitoring program for the parameter(s). Samples identical to those required for routine monitoring purposes shall be taken on each of at least three consecutive operating and discharge days and analyzed. Results shall be expressed in terms of both concentration and mass, and shall be submitted no later than the end of the second month following the month when the action level was first exceeded. Results may be appended to the DMR or transmitted under separate cover to the addresses listed on the RECORDING, REPORTING AND MONITORING page of this permit. If levels higher than the actions levels are confirmed the results shall constitute an application for permit modification and the permit may be reopened for consideration of revised action levels or effluent limits.

The permittee is not authorized to discharge any of listed parameters at levels which may cause or contribute to a violation of water quality standards.

<u>Outfall Number & Effluent Parameter</u>	<u>Action Level</u>	<u>Units</u>	<u>Minimum Monitoring Requirements Measurement Frequency</u>	<u>Sample Type</u>
<u>003 - Non-Contact Cooling Water & Cooling Water</u>				
Copper, Total	0.1	mg/l	Quarterly	Grab
<u>008 - Non-Contact Cooling Water & Cooling Water</u>				
Copper, Total	0.1	mg/l	Quarterly	Grab
<u>009 - Sanitary</u>				
Aluminum, Total	1.6	mg/l	Quarterly	Grab
Boron, Total	0.85	mg/l	Quarterly	Grab
Copper, Total	0.053 net	mg/l	Quarterly	Grab
Iron, Total	0.350 net	mg/l	Quarterly	Grab
Lead, Total	0.015 net	mg/l	Quarterly	Grab
Manganese, Total	0.270 net	mg/l	Quarterly	Grab
Molybdenum, Total	16.5	mg/l	Quarterly	Grab
Tin, Total	1.15	mg/l	Quarterly	Grab
Cyanide, Total	0.15	mg/l	Quarterly	Grab
Acetone	0.150	mg/l	Quarterly	Grab

Modified: May 9, 1996**ACTION LEVEL REQUIREMENTS (TYPE I)**

The parameters listed below have been reported present in the discharge but at levels that currently do not require technology or water quality based limits. Action levels have been established which, if routinely or excessively exceeded, will result in reconsideration and/or development of technology or water quality based limits.

Routine action level monitoring results, if not provided for on the Discharge Monitoring Report (DMR) form, shall be appended to the DMR for the period during which the sampling was conducted. If submission of DMR's is not required by this permit, the results shall be maintained in accordance with instructions on the RECORDING, REPORTING AND MONITORING page of this permit.

If any of the action levels is exceeded, the permittee shall undertake a short-term, high-intensity monitoring program for the parameter(s). Samples identical to those required for routine monitoring purposes shall be taken on each of at least three consecutive operating and discharge days and analyzed. Results shall be expressed in terms of both concentration and mass, and shall be submitted no later than the end of the second month following the month when the action level was first exceeded. Results may be appended to the DMR or transmitted under separate cover to the addresses listed on the RECORDING, REPORTING AND MONITORING page of this permit. If levels higher than the actions levels are confirmed the results shall constitute an application for permit modification and the permit may be reopened for consideration of revised action levels or effluent limits.

The permittee is not authorized to discharge any of listed parameters at levels which may cause or contribute to a violation of water quality standards.

<u>Outfall Number & Effluent Parameter</u>	<u>Action Level</u>	<u>Units</u>	<u>Minimum Monitoring Requirements Measurement Frequency</u>	<u>Sample Type</u>
<u>010 - Lab Drains, Misc. Cooling, Storm Water, Boiler Blowdown & Contaminated GW Recovery</u>				
Copper, Total	0.35 net	mg/l	Quarterly	Grab
Iron, Total	0.52 net	mg/l	Quarterly	Grab
Lead, Total	0.05 net	mg/l	Quarterly	Grab
Manganese, Total	0.08 net	mg/l	Quarterly	Grab
Methylene chloride	0.060	mg/l	Quarterly	Grab
Acetone	0.150	mg/l	Quarterly	Grab
<u>009 & 010 - Combined</u>				
Silver, Total	0.1	mg/l	Quarterly	Grabs ¹

¹Composite of the grabs from each of the outfalls (009 & 010), taken on the same day, & mixed in proportion to the respective effluent flows for analysis.

DEFINITIONS OF DAILY AVERAGE AND DAILY MAXIMUM

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein, during any calendar day.

MONITORING LOCATIONS

The permittee shall take samples and measurements, to comply with the monitoring requirements specified in this permit, at the location(s) indicated below: (Show sampling locations and outfalls with sketch or flow diagram as appropriate). On each individual effluent prior to discharge to Fishkill Creek.

See Map on attached Appendix A

SPECIAL CONDITIONS - BEST MANAGEMENT PRACTICES

1. The permittee shall develop and implement a Best Management Practices (BMP) plan, within one year of EDP to prevent, or minimize the potential for, release of significant amounts of toxic or hazardous pollutants to the waters of the State through plant site runoff; spillage and leaks; sludge or waste disposal; and storm water discharges including, but not limited to, drainage from raw material storage. If the completed BMP plans have not been submitted to-date they must be submitted to the Regional Water Engineer within six months of EDM.
2. The permittee shall review all facility components or systems (including material storage areas; in-plant transfer, process and material handling areas; loading and unloading operations; storm water, erosion, and sediment control measures; process emergency control systems; and sludge and waste disposal areas) where toxic or hazardous pollutants are used, manufactured, stored or handled to evaluate the potential for the release of significant amounts of such pollutants to the waters of the State. In performing such an evaluation, the permittee shall consider such factors as the probability of equipment failure or improper operation, cross-contamination of storm water by process materials, settlement of facility air emissions, the effects of natural phenomena such as freezing temperatures and precipitation, fires, and the facility's history of spills and leaks. For hazardous pollutants, the list of reportable quantities as defined in 40 CFR, Part 117 may be used as a guide in determining significant amounts of releases. For toxic pollutants, the relative toxicity of the pollutant shall be considered in determining the significance of potential releases.

The review shall address all substances present at the facility that are listed as toxic pollutants under Section 307(a)(1) of the Clean Water Act or as hazardous pollutants under Section 311 of the Act or that are identified as Chemicals of Concern by the Industrial Chemical Survey.

3. Whenever the potential for a significant release of toxic or hazardous pollutants to State waters is determined to be present, the permittee shall identify Best Management Practices that have been established to minimize such potential releases. Where BMPs are inadequate or absent, appropriate BMPs shall be established. In selecting appropriate BMPs, the permittee shall consider typical industry practices such as spill reporting procedures, risk identification and assessment, employee training, inspections and records, preventive maintenance, good housekeeping, materials compatibility and security. In addition, the permittee may consider structural measures (such as secondary containment and erosion/sediment control devices and practices) where appropriate.
4. Development of the BMP plan shall include sampling of waste stream segments for the purpose of toxic "hot spot" identification. The economic achievability of technology-based end-of-pipe treatment will not be considered until plant site "hot spot" sources have been identified, contained, removed or minimized through the imposition of site specific BMPs or application of internal facility treatment technology.
5. The BMP plan shall be documented in narrative form and shall include any necessary plot plans, drawings or maps. Other documents already prepared for the facility such as a Safety Manual or a Spill Prevention, Control and Countermeasure (SPCC) plan may be used as part of the plan and may be incorporated by reference. USEPA guidance for development of storm water elements of the BMP is available in the September 1992 manual "Storm Water Management for Industrial Activities," USEPA Office of Water Publication EPA 832-R-92-006 (available from NTIS, (703)487-4650, order number PB 92235969). A copy of the BMP plan shall be maintained at the facility and shall be available to authorized Department representatives upon request. As a minimum, the plan shall include the following BMP's:

a. BMP Committee	e. Inspections and Records	i. Security
b. Reporting of BMP Incidents	f. Preventive Maintenance	j. Spill prevention & response
c. Risk Identification & Assessment	g. Good Housekeeping	k. Erosion & sediment control
d. Employee Training	h. Materials Compatibility	l. Management of runoff
6. The BMP plan shall be modified whenever changes at the facility materially increase the potential for significant releases of toxic or hazardous pollutants or where actual releases indicate the plan is inadequate.

A "hot spot" is a segment of an industrial facility; including but not limited to soil, equipment, material storage areas, sewer lines etc.; which contributes elevated levels of problem pollutants to the wastewater and/or storm water collection system of that facility. For the purposes of this definition, problem pollutants are substances for which end of pipe treatment to meet a water quality or technology requirement may, considering the results of wastestream segment sampling, be deemed unreasonable. For the purposes of this definition, an elevated level is a concentration or mass loading of the pollutant in question which is sufficiently higher than the end of pipe concentration of that same pollutant so as to allow for an economically justifiable removal and/or isolation of the segment and/or B.A.T. treatment of wastewaters emanating from the segment.

Toxicity Testing Program
Tier 1 - Acute Test

The permittee shall complete the effluent toxicity monitoring program as directed by the Regional Water Engineer. A final determination regarding additional monitoring and/or implementation of a toxicity reduction evaluation will be made by the Department following one year of testing and given to the permittee in writing by the DEC Region 3 Water Engineer. The effluent toxicity monitoring program shall be as follows:

<u>Outfall No(s)</u>	<u>Effluent Parameter</u>	<u>Units</u>	<u>Monitoring Requirements</u>	
			<u>Measurement Frequency</u>	<u>Sample Type</u>
Dry Weather Proportional Composite 003, 008 009 & 010 flows	Effluent Toxicity ^(a)	% Effluent ^(b)	(c,d)	24-hr. ^(e) composite/renewal

- (a) Effluent Toxicity shall mean the toxicity of the effluent in acute static renewal tests specified as Tier 1 testing in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms*, Fourth Edition, EPA/600/4-90/027F (1993), or the most recent editions herein referred to as the EPA Acute Manual). Both a (freshwater or marine) vertebrate and invertebrate species shall be used for the tests. Each test shall be 'bracketed' with a test concentration of pure effluent and a test concentration of effluent diluted sufficiently such that the diluted sample shows no toxic effects. Appropriate dilutions between the endpoints shall be tested to allow calculation of the Maximum Allowable Waste Concentration. Dilution water shall be collected according to the EPA Acute Manual. Receiving water shall be used as a dilution water unless the Department approves a different source. Effluent sampling and holding shall be done as outlined in EPA Acute Manual, and should consist of 24 hour composite samples. Any deviation from procedures in the Manual cited requires prior written approval by the Department.
- (b) The 48-hour EC₅₀ in and 48-hour LC₅₀ in % Effluent for both a vertebrate and an invertebrate species shall be determined and reported in accordance with the specified frequency. The 48-hour EC₅₀ and 48-hour LC₅₀ in % Effluent shall be compared to the calculated Instream Waste Concentration (IWC) of the effluent calculated based on the critical flow in Fishkill Creek of 0.06 cubic feet per second (cfs).
- (c) If, after one year of testing, evaluation of multiple toxicity test results indicates likely toxicity, the Department may require the permittee to conduct chronic (Tier 2) testing or submit a Toxicity Reduction Evaluation (TRE) study proposal. If the effluent exhibits severe toxicity, this schedule may be accelerated. If chronic testing is required, it shall begin within 30 days of letter notification from the DEC Region 3 Water Engineer. If a TRE is required, a TRE proposal shall be submitted to the Department within 45 days of receipt of notification by the DEC Water Engineer. Upon determination of TRE proposal suitability, the DEC Regional Water Engineer will notify the permittee by letter, and the permittee shall begin the TRE within 14 days of receipt of this notification.
- (d) Effluent toxicity monitoring requirements shall be performed quarterly during the one year period beginning on the effective date of this permit. The results of each toxicity test shall be submitted no later than 28 days following the end of each test period. These reports shall be submitted to the Regional Water Engineer at Region 3, 200 White Plains Road 5th Floor, Tarrytown, New York 10591, the Chief, Compliance Section, Bureau of Watershed Compliance Programs, 50 Wolf Road, Albany, NY 12233-3506, and the Toxicity Testing Unit, Bureau of Watershed Assessment and Research, 50 Wolf Road, Albany, NY 12233-3503.
- (e) Samples for chemical analysis of the parameters limited in this permit, as well as monitoring of the discharge flow rate, pH and temperature, shall be coordinated with the samples collected for toxicity testing.
- (f) Discharges which are chlorinated for the purpose of disinfection should be sampled prior to chlorination or be dechlorinated prior to toxicity testing evaluation. Discharges which use chlorination as part of the waste treatment process other than for disinfection purposes, should be sampled after the chlorination process and evaluated for toxicity.

Toxicity Testing Program
 Tier 2 - Chronic Test

The permittee shall implement this effluent toxicity monitoring program beginning within 15 days after written notification from the DEC Region 3 Water Engineer, or within 45 days following issuance of this permit if Tier 1 (acute) testing is not required. This monitoring program shall continue for a period of one year. A final determination regarding additional monitoring and/or implementation of a toxicity reduction evaluation will be made by the Department following the completion of this program and given to the permittee in writing by the DEC Region 3 Water Engineer. The effluent toxicity monitoring program is as follows:

<u>Outfall No(s)</u>	<u>Effluent Parameter</u>	<u>Units</u>	<u>Monitoring Requirements</u>	
			<u>Measurement Frequency</u>	<u>Sample Type</u>
Dry Weather proportional composite of 003, 008, 009 & 010 flows	Effluent Toxicity ^(a)	% Effluent ^(b)	(c)	24-hr. ^(d) composite/renewal

- (a) Effluent toxicity shall mean the toxicity of the effluent in chronic static renewal tests as specified in the *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*, Third Edition, EPA/600/4-91/002 (1994), or the EPA Chronic Manual for Marine Organisms (EPA/600/4-91/003 (1994), or the most recent editions (herein referred to as the EPA Chronic Manuals). Both a (freshwater or marine) vertebrate and invertebrate species shall be used for the tests. Dilution water shall be collected according to the EPA Manuals. Each test run shall be 'bracketed' with a test concentration of pure effluent and a test concentration of effluent diluted sufficiently such that the diluted samples shows no toxic effects. Appropriate dilutions between the endpoints shall be tested to allow calculation of the Maximum Allowable Waste Concentration. Receiving water shall be used as dilution water unless the Department approves a different source. Effluent sampling and holding shall be done as outlined in EPA Manuals, and should consist of 24 hour composite samples. Any deviation from procedures in the Manuals cited requires prior approval by the Department.
- (b) The Maximum Allowable Waste Concentration (MAWC) in % Effluent, for both a vertebrate and an invertebrate species, shall be determined and reported. The MAWC in % Effluent shall be compared to the calculated Instream Waste Concentration (IWC) of the effluent. The IWC in % Effluent shall be determined using the daily average effluent flow at the time of sampling and a critical receiving water flow of 4.6 cfs for Fishkill Creek.
- (c) Effluent toxicity monitoring requirements shall be performed quarterly during the one year period beginning on the effective date of notification. The results of each toxicity test shall be submitted no later than 28 days following the end of each test period. These reports shall be submitted to the Regional Water Engineer at Region 3, 200 White Plains Road 5th Floor, Tarrytown, New York 10591, Chief, Compliance Section, Bureau of Watershed Compliance Programs, 50 Wolf Road, Albany, NY 12233-3506 and the Toxicity Testing Unit, Bureau of Watershed Assessment and Research, 50 Wolf Road, Albany, NY 12233-3503.
- (d) Samples for chemical analysis of the parameters limited in this permit, as well as monitoring of the discharge flow rate, pH and temperature, shall be coordinated with the samples collected for toxicity testing.
- (e) Discharges which are chlorinated for the purpose of disinfection should be sampled prior to chlorination or be dechlorinated prior to toxicity testing evaluation. Discharges which use chlorination as part of the waste treatment process other than for disinfection purposes, should be sampled after the chlorination process and evaluated for toxicity.

TOXICITY REDUCTION EVALUATION COMPLIANCE SCHEDULE

- (a) DEC will evaluate the results of acute and/or chronic toxicity testing required by this permit in accordance with DEC guidance on whole effluent toxicity monitoring and control. Based on this evaluation, the DEC may require the permittee to perform a Toxicity Reduction Evaluation (TRE). The permittee shall be notified of any requirement to perform a TRE by letter notification of the DEC Region 3 Water Engineer, including the Department's rationale for such requirement. Upon notification the permittee shall perform a TRE in accordance with the following schedule:

<u>Outfall Number(s)</u>	<u>Compliance Action</u>	<u>Due Date</u>
003,008, 009 & 010 outfalls	Submission of a proposal for a Toxicity Reduction Evaluation (TRE) study to the Department of Environmental Conservation, Bureau of Water Permits, 50 Wolf Rd. Albany, New York 12233-3505.	45 days after letter notification from Regional Water Engineer

The TRE proposal shall be a plan: for identifying the source of the toxicity, describing procedures to reduce the toxicity to an acceptable level, identifying monitoring parameters suitable for insuring control of the toxicity, and proposing a schedule of compliance.

Within 14 days of receipt of written approval of the TRE proposal by DEC Region Region 3 Water Engineer, the permittee shall implement the approved TRE proposal in accordance with the approved compliance schedule.

The completed TRE, including data findings and recommendations for corrective actions, permit limits, and proposed self-monitoring requirements shall be submitted. The Department will review the TRE and may redraft the permit to incorporate one or more of the following, consistent with the provisions of applicable law and regulation: substance specific numerical limits, toxicity limits, monitoring requirements, and/or a schedule of compliance that will ensure acceptable toxicity levels of the effluent.

- (b) The permittee shall submit to the Department of Environmental Conservation the TRE proposal required in (a) above within 45 days after letter notification from the Regional Water Engineer, and a written notice of compliance or non-compliance with the above schedule date(s) postmarked no later than 14 days following that letter notification from the Regional Water Engineer. Each notice of the non-compliance shall include the following information:
1. A short description of the non-compliance;
 2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirements without further delay;
 3. A description of any factors which tend to explain or mitigate the non-compliance; and
 4. An estimate of the date the permittee will comply with the elapsed schedule requirement and an assessment of the probability that the permittee will meet the next schedule requirement on time.

RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS

- a) The permittee shall also refer to the General Conditions (Part II) of this permit for additional information concerning monitoring and reporting requirements and conditions.
- b) The monitoring information required by this permit shall be summarized, signed and retained for a period of three years from the date of the sampling for subsequent inspection by the Department or its designated agent. **Also;**

[X] (if box is checked) monitoring information required by this permit shall be summarized and reported by submitting completed and signed Discharge Monitoring Report (DMR) forms for each 1 month reporting period to the locations specified below. Blank forms are available at the Department's Albany office listed below. The first reporting period begins on the effective date of this permit and the reports will be due no later than the 28th day of the month following the end of each reporting period.

Send the **original** (top sheet) of each DMR page to:

Department of Environmental Conservation
Division of Water
Bureau of Watershed Compliance Programs
50 Wolf Road
Albany, New York 12233-3506
Phone: (518) 457-3790

Dutchess County Health Dept.
387-391 Main Mall 3rd Floor
Poughkeepsie, NY 12601

Send the **first copy** (second sheet) of each DMR page to:

Department of Environmental Conservation
Regional Water Engineer
Region 3
200 White Plains Rd.
5th Floor
Tarrytown, NY 10591

- c) A monthly "Wastewater Facility Operation Report..." (form 92-15-7) shall be submitted (if box is checked) to the [] Regional Water Engineer and/or [] County Health Department or Environmental Control Agency listed above.
- d) **Noncompliance** with the provisions of this permit shall be reported to the Department as prescribed in the attached General Conditions (Part II).
- e) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
- f) If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculations and recording on the Discharge Monitoring Reports.
- g) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.
- h) Unless otherwise specified, all information recorded on the Discharge Monitoring Report shall be based upon measurements and sampling carried out during the most recently completed reporting period.
- i) Any laboratory test or sample analysis required by this permit for which the State Commissioner of Health issues certificates of approval pursuant to section five hundred two of the Public Health Law shall be conducted by a laboratory which has been issued a certificate of approval. Inquiries regarding laboratory certification should be sent to the Environmental Laboratory Accreditation Program, New York State Health Department Center for Laboratories and Research, Division of Environmental Sciences, The Nelson A. Rockefeller State Plaza, Albany, New York 12201.

DISCHARGE NOTIFICATION REQUIREMENTS

- a) Within ninety days after the effective date of this permit modification, the permittee shall install and maintain identification signs at all outfalls to surface waters listed in this permit. The sign(s) shall be conspicuous, legible and in as close proximity to the point of discharge as is reasonably possible while ensuring the maximum visibility from the surface water and shore. The signs shall be installed in a manner that poses minimal hazard to navigation, bathing or other water related activities. If the public has access to the water from the land in the vicinity of the outfall, an identical sign shall be posted to be visible from the direction approaching the surface water.

The signs shall have **minimum** dimensions of eighteen inches by twenty four inches (18" x 24") and shall have white letters on a green background and contain the following information:

N.Y.S. PERMITTED DISCHARGE POINT

SPDES PERMIT No.: NY _____

OUTFALL No. : _____

For information about this permitted discharge contact:

Permittee Name: _____

Permittee Contact: _____

Permittee Phone: () - ### - ####

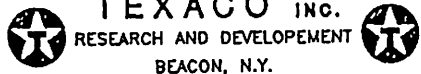
OR:

NYSDEC Division of Water Regional Office Address :

- b) If, upon the effective date of this modification, the permittee has installed signs that include the information required by § 17-0815-a(2)(a), but do not meet the specifications listed above, the permittee may continue to use the existing signs for a period of up to five years, after which the signs shall comply with the specifications listed above.
- c) The permittee shall periodically inspect the outfall identification signs in order to insure that they are maintained, are still visible and contain information that is current and factually correct.
- d) Within ninety days after the effective date of this permit modification, the permittee shall provide for public review at a repository accessible to the public, copies of the Discharge Monitoring Reports (DMRs) as required by the **RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS** page of this permit. This repository shall be open to the public at a minimum of normal daytime business hours. The repository may be at the business office repository of the permittee or at an off-premises location of its choice (such location shall be the village, town, city or county clerk's office, the local library or other location as approved by the Department). In accordance with the **RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS** page of your permit, each DMR shall be maintained on record for a period of three years.

DISCHARGE NOTIFICATION REQUIREMENTS (continued)

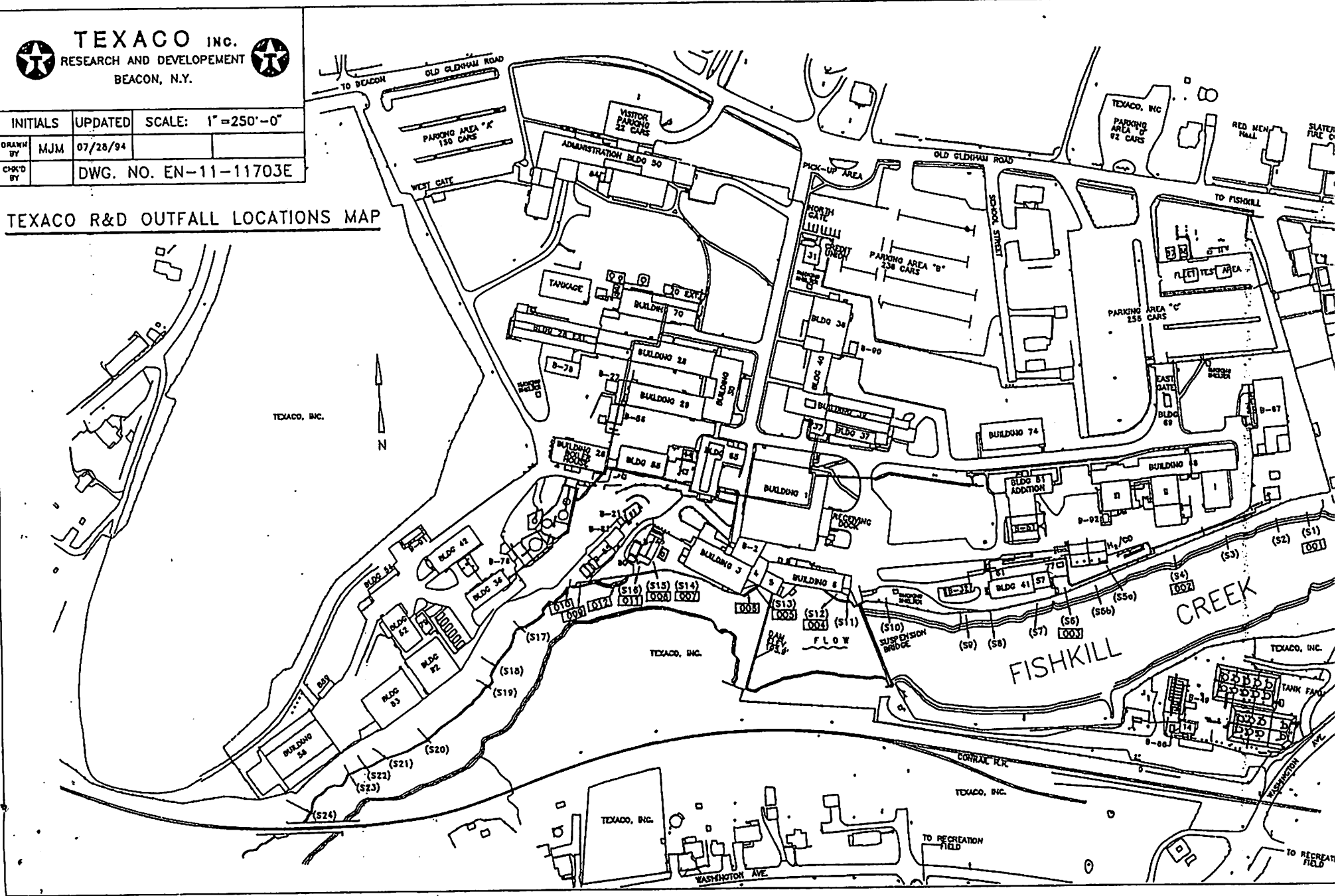
- (f) All requirements of the Discharge Notification Act, including public repository requirements, are waived for any outfall meeting any of the following circumstances, provided Department notification is made in accordance with (f):
- (I) h sign would be inconsistent with any other state or federal statute;
 - (II) such sign could only be located in an area that is damaged by ice or flooding due to a one-year storm or storms of less severity;
 - (III) instances in which the outfall to the receiving water is located on private or government property which is restricted to the public through fencing, patrolling, or other control mechanisms. Property which is posted only, without additional control mechanisms, does not qualify for this provision;
 - (IV) instances where the outfall pipe or channel discharges to another outfall pipe or channel, before discharge to a receiving water; or
 - (V) instances in which the discharge from the outfall is located in the receiving water, 200 or more feet from the shoreline of the receiving water.
- (f) If the permittee believes that any outfall which discharges wastewater from the permitted facility meets any of the waiver criteria listed in (e) above, notification (form enclosed) must be made to the Department's Bureau of Water Permits, Central Office, of such fact, and, provided there is no objection by the Department a sign and DMR repository for the involved outfall(s) are not required. This notification must include the facility's name, address, telephone number, contact, permit number, outfall number(s), and reason why such outfall(s) is waived from the requirements of discharge notification. The Department may evaluate the applicability of a waiver at any time, and take appropriate measures to assure that the ECL and associated regulations are complied with.



TEXACO INC.
RESEARCH AND DEVELOPMENT
BEACON, N.Y.

INITIALS	UPDATED	SCALE: 1"=250'-0"
DRAWN BY MJM	07/28/94	
CHECKED BY	DWG. NO. EN-11-11703E	

TEXACO R&D OUTFALL LOCATIONS MAP



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
State Pollutant Discharge Elimination System (SPDES)
NOTICE / RENEWAL APPLICATION / PERMIT



Please read ALL instructions on the back before completing this application form. Please TYPE or PRINT clearly in ink.

PART 1 - NOTICE 10/15/1999

Permittee Contact Name, Title, Address
3-1330-00048/00004

Facility and SPDES Permit Information

TEXACO INC
~~LAWRENCE R TRAMMEL~~ FRED JARDINICO
PO BOX 509
BEACON NY 12508

AT BEACON
Name: TEXACO RESEARCH & DEVELOPMENT BEA
Ind. Code: 8731 County: DUTCHESS
DEC No.: 3-1330-00048/00004
SPDES No.: NY 000 5754
Expiration Date: 08/01/2000
Application Due By: 02/03/2000

Are these name(s) & address(es) correct? if not, please write corrections above.

The State Pollutant Discharge Elimination System Permit for the facility referenced above expires on the date indicated. You are required by law to file a complete renewal application at least 180 days prior to expiration of your current permit. Note the "Application Due By" date above.

CAUTION: This short application form and attached questionnaire are the only forms acceptable for permit renewal. Sign Part 2 below and mail only this form and the completed questionnaire using the enclosed envelope. Effective April 1, 1994 the Department no longer assesses SPDES application fees.

If there are changes to your discharge, or to operations affecting the discharge, then in addition to this renewal application, you must also submit a separate permit modification application to the Regional Permit Administrator for the DEC region in which the facility is located, as required by your current permit. See the reverse side of this page for instructions on filing a modification request.

PART 2 - RENEWAL APPLICATION

CERTIFICATION: I hereby affirm that under penalty of perjury that the information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to section 210.45 of the Penal Law.

Mr. Robert Travis ACTING MANAGER - BEACON FACILITY
Name of person signing application (see instructions on back) Title

Robert J. Travis 10/27/99
Signature Date

PART 3 - PERMIT (Below this line - Official Use Only)

Effective Date: 08/01/00 Expiration Date: 08/01/05

Barbara B. Rinaldi
Permit Administrator

Address: NYSDEC - Division of Environmental Permits
Bureau of Environmental Analysis
50 Wolf Road, Albany, NY 12233-1760

Barbara B. Rinaldi 1/4/00
Signature Date

This permit together with the previous valid permit for this facility issued 07/18/95 and subsequent modifications constitute authorization to discharge wastewater in accordance with all terms, conditions and limitations specified in the previously issued valid permit, modifications thereof or issued as part of this permit, including any special or general conditions attached hereto. Nothing in this permit shall be deemed to waive the Department's authority to initiate a modification of this permit on the grounds specified in 6NYCRR §621.14, 6NYCRR §754.4 or 6NYCRR §757.1 existing at the time this permit is issued or which arise thereafter.

Attachments: General Conditions dated 11/1/90

91-20-2a (1/89)

SPDES No.: NY 000 5754

Part 1, Page 3 of 15

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 1, 1995
 and lasting until August 1, 2000

the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Number & Effluent Parameter	Discharge Limitations			Minimum Monitoring Requirements	
	Daily Avg.	Daily Max.	Units	Measurement Frequency	Sample Type
009 Sanitary					
Flow	Monitor	35,000	GPD	Continuous	Recorder
BOD ₅	5.0	9.4	lbs/day	2/month	24 hr. comp.
Solids, Suspended	24 ⁵	45 ⁶	mg/l	2/month	24 hr. comp.
	30 ⁵	45 ⁶	mg/l	2/month	24 hr. comp.
Settleable Solids	NA	0.1	ml/l	Daily	Grab
Temperature	NA	Monitor ⁷	Deg. F	Weekly	Grab
pH (Range)		6.5-8.5 ⁸	SU's	Weekly	Grab
Oil & Grease	1.7	4.3	lbs/day	Monthly	Grab
	NA	15	mg/l	Monthly	Grab
Chlorine, Total Residual	0.5 minimum	2.0	mg/l	5x/week ¹⁰	Grab
Fecal Coliform	200	400	CFU/100ml	2/month	Grab
Zinc, Total	NA	Monitor ¹¹	lbs/day	Monthly	Grab

⁵ This average shall be the arithmetic mean over a period of 30 consecutive days.

⁶ This maximum shall be the arithmetic mean over a period of 7 consecutive days.

⁷ The water temperature at the surface of the receiving stream shall not be raised to more than 32.2°C (90°F) at any point. Further, in at least 50% of the cross-sectional areas and/or volume of the flow of the stream including at least a minimum of 1/3 of the surface measured from shore to shore shall not be raised to more than 2.8°C (5°F) at any point over the temperature that existed before the addition of heat of artificial origin or to a maximum of 30.0°C (86°F) whichever is less. However, the 30.0°C (86°F) maximum temperature limitation shall not apply when the temperature of the receiving waters upstream of the permittee's discharges is greater than 30.0° (86°F). Under such conditions, the temperature of the receiving waters downstream of the permittee's discharges shall not exceed the upstream temperature. The receiving water temperature shall be measured both at the Maple Street Bridge and within 90 feet of the most westerly discharge at approximately the same time as the temperature measurements for all outfalls"

⁸ The pH shall not be less than 6.5 nor greater than 8.5 standard units. This remains the case when the pH of the intake water is taken from Fishkill Creek and the pH range is within 6.7 to 8.3 standard units. In the even the intake water originates from Fishkill Creek and the influent pH is less than 6.7 standard units, the effluent pH shall not be more than 0.2 standard units less than the intake water pH. Likewise, when the intake water pH from Fishkill Creek is greater than 8.3 standard units, the effluent pH shall not be more than 0.2 standard units greater than the intake water pH.

⁹ The sum of the discharge from outfalls 009 and 010 shall average not more than .1 pounds per day on a 30 day average nor exceed .4 pounds per day as a daily maximum of 1,1,1-trichloroethane. The poundage shall be calculated using the average concentrations and the total flow for the sampling day. The average concentration shall be calculated using the average concentrations and the total flow for the sampling day. The average concentration shall be calculated to be a weighted average proportional to the total flow during the period represented by each sample. One sample shall be taken at 8:00 a.m. and one sample 4:00 p.m. to compute the average.

¹⁰ For weeks with 5 business days. When the facility is closed or not operating due to holiday or other reason sampling must be conducted for only the actual operating days or "business days". Texaco shall provide the reason for not sampling 5x/week appended to the applicable DMR.

¹¹ The sum of outfalls 3, 8, 9 & 10 shall be 1.0 lbs/day.

91-20-2a (1/89)

SPDES No.: NY 000 5754

Part 1, Page 5 of 15

EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning August 1, 1995

and lasting until August 1, 2000

the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Number & Effluent Parameter	Discharge Limitations			Minimum Monitoring Requirements	
	Daily Avg.	Daily Max.	Units	Measurement Frequency	Sample Type
<u>011 - Emergency Bypass, after the grit trap and to oil water separator, of the 010 secondary treatment system¹⁶</u>					
Results of USEPA Method 624 analysis	NA	Monitor	ug/l	Each Occurrence	Grab
Oil & Grease	NA	15	mg/l	Each Occurrence	Grab
<u>012 - Emergency Bypass, after the primary settling tank, of the 009 secondary treatment system¹⁶</u>					
BOD ₅	NA	Monitor	mg/l	Each Occurrence	Grab
Solids, Suspended	NA	Monitor	mg/l	Each Occurrence	Grab

¹⁶ Consistent with the general conditions 5b. & 11.2 attached to this permit, notification by telephone, fax or overnight mail of each and every bypass event shall be made to the Region 3 Regional Water Engineer or his duty authorized representative within 24 hours of an event, or from the time Texaco becomes aware of the event.

A written account of each and every bypass event shall be prepared within 5 working days of each and every bypass event occurrence for submittal to or inspection by the Department when requested.

Modified: May 9, 1996

ACTION LEVEL REQUIREMENTS (TYPE I)

The parameters listed below have been reported present in the discharge but at levels that currently do not require technology or water quality based limits. Action levels have been established which, if routinely or excessively exceeded, will result in reconsideration and/or development of technology or water quality based limits.

Routine action level monitoring results, if not provided for on the Discharge Monitoring Report (DMR) form, shall be appended to the DMR for the period during which the sampling was conducted. If submission of DMR's is not required by this permit, the results shall be maintained in accordance with instructions on the RECORDING, REPORTING AND MONITORING page of this permit.

If any of the action levels is exceeded, the permittee shall undertake a short-term, high-intensity monitoring program for the parameter(s). Samples identical to those required for routine monitoring purposes shall be taken on each of at least three consecutive operating and discharge days and analyzed. Results shall be expressed in terms of both concentration and mass, and shall be submitted no later than the end of the second month following the month when the action level was first exceeded. Results may be appended to the DMR or transmitted under separate cover to the addresses listed on the RECORDING, REPORTING AND MONITORING page of this permit. If levels higher than the actions levels are confirmed the results shall constitute an application for permit modification and the permit may be reopened for consideration of revised action levels or effluent limits.

The permittee is not authorized to discharge any of listed parameters at levels which may cause or contribute to a violation of water quality standards.

Outfall Number & Effluent Parameter

Action Level Units

Minimum Monitoring Requirements Measurement Frequency Sample Type

010 - Lab Drains, Misc. Cooling, Storm Water, Boiler Blowdown & Contaminated GW Recovery

<u>Outfall Number & Effluent Parameter</u>	<u>Action Level</u>	<u>Units</u>	<u>Minimum Monitoring Requirements Measurement Frequency</u>	<u>Sample Type</u>
Copper, Total	0.35 net	mg/l	Quarterly	Grab
Iron, Total	0.52 net	mg/l	Quarterly	Grab
Lead, Total	0.05 net	mg/l	Quarterly	Grab
Manganese, Total	0.08 net	mg/l	Quarterly	Grab
Methylene chloride	0.060	mg/l	Quarterly	Grab
Acetone	0.150	mg/l	Quarterly	Grab

009 & 010 - Combined

Silver, Total	0.1	mg/l	Quarterly	Grabs ¹
---------------	-----	------	-----------	--------------------

¹Composite of the grabs from each of the outfalls (009 & 010), taken on the same day, & mixed in proportion to the respective effluent flows for analysis.

RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS

- a) The permittee shall also refer to the General Conditions (Part II) of this permit for additional information concerning monitoring and reporting requirements and conditions.
- b) The monitoring information required by this permit shall be summarized, signed and retained for a period of three years from the date of the sampling for subsequent inspection by the Department or its designated agent. Also;

[X] (if box is checked) monitoring information required by this permit shall be summarized and reported by submitting completed and signed Discharge Monitoring Report (DMR) forms for each 1 month reporting period to the locations specified below. Blank forms are available at the Department's Albany office listed below. The first reporting period begins on the effective date of this permit and the reports will be due no later than the 28th day of the month following the end of each reporting period.

Send the original (top sheet) of each DMR page to:

Department of Environmental Conservation
Division of Water
Bureau of Watershed Compliance Programs
50 Wolf Road
Albany, New York 12233-3506

Dutchess County Health Dept.
387-391 Main Mall 3rd Floor
Poughkeepsie, NY 12601

Phone: (518) 457-3790

Send the first copy (second sheet) of each DMR page to:

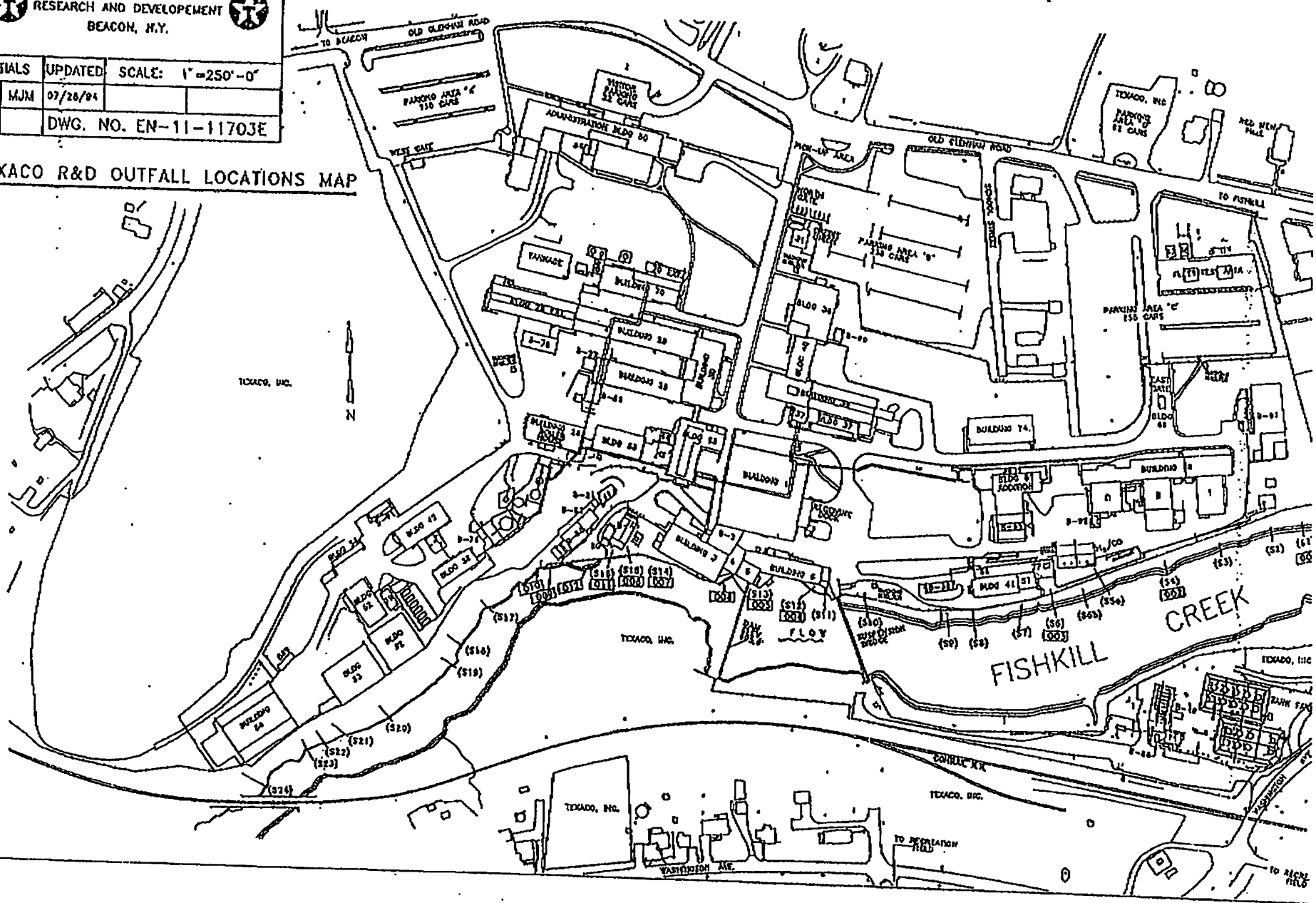
Department of Environmental Conservation
Regional Water Engineer
Region 3
200 White Plains Rd.
5th Floor
Tarrytown, NY 10591

- c) A monthly "Wastewater Facility Operation Report..." (form 92-15-7) shall be submitted (if box is checked) to the [] Regional Water Engineer and/or [] County Health Department or Environmental Control Agency listed above.
- d) Noncompliance with the provisions of this permit shall be reported to the Department as prescribed in the attached General Conditions (Part II).
- e) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
- f) If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculations and recording on the Discharge Monitoring Reports.
- g) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.
- h) Unless otherwise specified, all information recorded on the Discharge Monitoring Report shall be based upon measurements and sampling carried out during the most recently completed reporting period.
- i) Any laboratory test or sample analysis required by this permit for which the State Commissioner of Health issues certificates of approval pursuant to section five hundred two of the Public Health Law shall be conducted by a laboratory which has been issued a certificate of approval. Inquiries regarding laboratory certification should be sent to the Environmental Laboratory Accreditation Program, New York State Health Department Center for Laboratories and Research, Division of Environmental Sciences, The Nelson A. Rockefeller State Plaza, Albany, New York 12201.

TEXACO INC. RESEARCH AND DEVELOPMENT BEACON, N.Y.

INITIALS	UPDATED	SCALE: 1"=250'-0"
DESIGNED BY MJM	07/26/84	
CHECKED BY	DWG. NO. EN-11-11703E	

TEXACO R&D OUTFALL LOCATIONS MAP



DRUES #NY-0005754

New York State Department of Environmental Conservation

Division of Environmental Permits, Room 538

50 Wolf Road, Albany, New York 12233-1760

Phone: (518) 457-2224 • FAX: (518) 457-5965

Website: www.dec.state.ny.us



John P. Cahill
Commissioner

January 04, 2000

FRED JARDINICO
TEXACO INC
PO BOX 509
BEACON, NY 12508

FACILITY INFORMATION

TEXACO AT BEACON
LOCATION : FISHKILL (T)
COUNTY : DUTCHESS
DEC NO : 3-1330-00048-00004-
SPDES NO : NY 000 5754

Dear SPDES Permittee:

Enclosed please find your renewed State Pollutant Discharge Elimination System (SPDES) permit. This renewal permit together with the previously issued valid permit constitute authorization to discharge wastewater in accordance with all terms, conditions and limitations specified in your previously issued permit, including any valid modifications.

The instructions and other information that you received with the NOTICE/RENEWAL APPLICATION/PERMIT package fully described procedures for renewal and modification of your SPDES permit under the Environmental Benefit Permit Strategy (EBPS). As a reminder, SPDES permits are renewed at a central location in Albany in order to make the process more efficient. All other concerns with your permit such as applications for permit modifications, permit transfers to a new owner, name changes, and other questions should be directed to the Regional Permit Administrator at the following address:

Margaret Duke
NYSDEC REGION 3
21 S Putt Corners Rd
New Paltz, NY 12561-1696
(914) 256-3059

RECEIVED
NYS DEC - REGION 3
TARRYTOWN OFFICE

If you have already filed an application for modification of your permit, it will be processed separately through our regional office. If you have questions concerning this permit renewal, please contact Deborah Knight at (518) 457-3015.

Sincerely,

Barbara B Rinaldi
Deputy Chief Permit Administrator

Enclosure

cc: RPA
RWE ✓
BWP

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
State Pollutant Discharge Elimination System (SPDES)
NOTICE / RENEWAL APPLICATION / PERMIT



Please read ALL instructions on the back before completing this application form. Please TYPE or PRINT clearly in ink.

PART 1 - NOTICE

Permittee Contact Name, Title, Address
3-1330-00048/00004

10/15/1999

Facility and SPDES Permit Information

TEXACO INC
~~LAWRENCE R. THURMS~~ FRED JARDINICO
PO BOX 509
BEACON NY 12508

Name: AT BEACON
~~TEXACO RESEARCH & DEVELOPMENT-DE~~
Ind Code: 8731 County: DUTCHESS
DEC No.: 3-1330-00048/00004
SPDES No.: NY 000 5754
Expiration Date: 08/01/2000
Application Due By: 02/03/2000

Are these name(s) & address(es) correct? if not, please write corrections above.

The State Pollutant Discharge Elimination System Permit for the facility referenced above expires on the date indicated. You are required by law to file a complete renewal application at least 180 days prior to expiration of your current permit. Note the "Application Due By" date above.

CAUTION: This short application form and attached questionnaire are the only forms acceptable for permit renewal. Sign Part 2 below and mail only this form and the completed questionnaire using the enclosed envelope. Effective April 1, 1994 the Department no longer assesses SPDES application fees.

If there are changes to your discharge, or to operations affecting the discharge, then in addition to this renewal application, you must also submit a separate permit modification application to the Regional Permit Administrator for the DEC region in which the facility is located, as required by your current permit. See the reverse side of this page for instructions on filing a modification request.

PART 2 - RENEWAL APPLICATION

CERTIFICATION: I hereby affirm that under penalty of perjury that the information provided on this form and all attachments submitted herewith is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to section 210.45 of the Penal Law.

Name of person signing application (see instructions on back) Mr Robert J. Travis
TITLE ACTING MANAGER - BEACON FACILITY
Signature [Signature] Date 10/27/99

PART 3 - PERMIT (Below this line - Official Use Only)

Effective Date: 08/01/00 Expiration Date: 08/01/05

Permit Administrator Barbara B. Rinaldi Address: NYSDEC - Division of Environmental Permits
[Signature] 1/4/00 Bureau of Environmental Analysis
[Signature] 1/4/00 50 Wolf Road, Albany, NY 12233-1780

This permit together with the previous valid permit for this facility issued 07/18/95 and subsequent modifications constitute authorization to discharge wastewater in accordance with all terms, conditions and limitations specified in the previously issued valid permit, modifications thereof or issued as part of this permit, including any special or general conditions attached hereto. Nothing in this permit shall be deemed to waive the Department's authority to initiate a modification of this permit on the grounds specified in 6NYCRR §621.14, 6NYCRR §754.4 or 6NYCRR §757.1 existing at the time this permit is issued or which arise thereafter.

Attachments: General Conditions dated 11/90



Please enter the numbers from your current permit.	DEC Number: <u>3-1330-000481 0000-4</u>
	SPDES Number: <u>NY 000 5754</u>

SPDES RENEWAL APPLICATION QUESTIONNAIRE

THIS PAGE MUST BE COMPLETED AND RETURNED WITH YOUR COMPLETED APPLICATION

Please TYPE or PRINT neatly using adequate pressure to make ALL copies legible. Keep the GOLD copy for your records.

1. Has the SPDES permit for your facility been modified in the past 5 years YES NO
2. Dischargers who use, manufacture, store, handle or discharge toxic or hazardous pollutants are subject to Industrial Best Management Practices (BMP) plan requirements for toxic or hazardous substances. A BMP plan prevents or minimizes the potential for release of pollutants to receiving waters from such ancillary industrial activities, including material storage areas, plant site runoff, in-plant transfer, process and material storage areas, loading and unloading operations, and sludge and waste disposal areas.

Does your facility conduct ancillary activities as described above, which are not covered by BMP requirements in your current permit? YES NO

Please indicate which of the following best describes the situation at your facility:

- None of the concerns on the "Self Evaluation List" seem to apply to my facility at this time and I will not be applying for a modification of the SPDES permit in the foreseeable future.
- Yes, some of the items on the "Self Evaluation List" have led me to believe my permit needs to be modified. I already have a complete modification application pending with the Department.
- Yes, some of the items on the "Self Evaluation List" have led me to believe that the SPDES permit for this facility may need to be Modified. I have requested the appropriate forms by phone OR I have completed and attached the "Request For SPDES Application Forms" (included in this renewal package) to allow me to submit a permittee-initiated Modification application.
- The items on the "Self Evaluation List" have left me unable to conclude whether my permit needs to be modified at this time. I am reporting the following general concerns about my permit:

DISTRIBUTION: Regional Water Engineer – WHITE
Central Office (BWP) – YELLOW
Regional Permit Administrator – PINK
Applicant – GOLD



Texaco
Corporate Services, Security
and Purchasing Department

PO Box 509
Beacon NY 12508
914 838 7459
914 838 7114 FAX

Lavery

October 27, 1999

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

ENV - STUDIES, SURVEYS & REPORTS
SPDES Permit Renewal - No. NY0005754

NYS Department of Environmental Conservation
Division of Environmental Permits
50 Wolf Road
Albany, New York 12233-3506

Dear Sir/Madam:

Enclosed is the SPDES permit renewal application and the questionnaire for the Texaco facility in Beacon (Permit #NY0005754).

Please contact Mr. Fred Jardinico at (914) 838-7725 if you have any questions or concerns regarding the renewal of this permit.

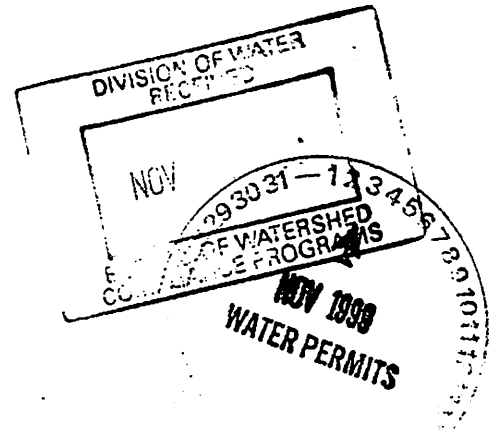
Very truly yours,

Robert J. Travis

Mr. Robert Travis
Acting Facilities Manager - Beacon

MKH

cc: NYS Dept. of Environmental Conservation
Region 3
200 White Plains Road - 5th Floor
Tarrytown, New York 10591-5805
Attn: Mr. Daniel Iyekepolar



New York State Department of Environmental Conservation
Division of Environmental Permits, Region 3
21 South Putt Corners Road, New Paltz, New York 12561-1696
Phone: (914) 256-3032 FAX: (914) 255-3042



John P. Cahill
Commissioner

July 6, 1999

DEC # 3-1330-00048/00004-0
SPDES ID # NY-0005754
(Please refer to these numbers in all your correspondence)
FACILITY: Texaco Research & Development
LOCATION: ~~Old Glentham Rd., Fishkill, Dutchess County~~

28

Mr. William A. Totten
Facility Manager
Texaco
P.O. Box 509
Beacon, NY 12508

PERMIT CORRECTION

Dear Mr. Totten:

The above referenced permit, last modified on February 11, 1999, contained an error on page 11 paragraph (b). The critical receiving water flow was stated as 0.06 cfs for Fishkill Creek.

Please replace page 11 of your permit with the enclosed corrected page, stating the correct volume for Fishkill Creek, 4.6 cfs.

If you have any questions regarding this matter, you may contact Larry Wilson at (914) 256-3162.

Sincerely,

Michael D. Merriman
Deputy Regional Permit Administrator

enclosure: revised permit page 11

cc (w/enclosure): R. Hannaford, NYS DEC
J. Marcogliese, NYS DEC
Dutchess County Health Department
EPA, Region 2

Toxicity Testing Program
 Tier 2 - Chronic Test

The permittee shall implement this effluent toxicity monitoring program beginning within 15 days after written notification from the DEC Region 3 Water Engineer, or within 45 days following issuance of this permit if Tier 1 (acute) testing is not required. This monitoring program shall continue for a period of one year. A final determination regarding additional monitoring and/or implementation of a toxicity reduction evaluation will be made by the Department following the completion of this program and given to the permittee in writing by the DEC Region 3 Water Engineer. The effluent toxicity monitoring program is as follows:

Outfall No(s)	Effluent Parameter	Units	Monitoring Requirements	
			Measurement Frequency	Sample Type
Dry Weather proportional composite of 003, 008, 009 & 010 flows	Effluent Toxicity ^(a)	% Effluent ^(b)	^(c)	24-hr. ^(d) composite/renew.

- (a) Effluent toxicity shall mean the toxicity of the effluent in chronic static renewal tests as specified in the *Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms*, Third Edition, EPA/600/4-91/002 (1994), or the EPA Chronic Manual for Marine Organisms (EPA/600/4-91/003 (1994), or the most recent editions (herein referred to as the EPA Chronic Manuals). Both a (freshwater or marine) vertebrate and invertebrate species shall be used for the tests. Dilution water shall be collected according to the EPA Manuals. Each test run shall be 'bracketed' with a test concentration of pure effluent and a test concentration of effluent diluted sufficiently such that the diluted samples shows no toxic effects. Appropriate dilutions between the endpoints shall be tested to allow calculation of the Maximum Allowable Waste Concentration. Receiving water shall be used as dilution water unless the Department approves a different source. Effluent sampling and holding shall be done as outlined in EPA Manuals, and should consist of 24 hour composite samples. Any deviation from procedures in the Manuals cited requires prior approval by the Department.
- (b) The Maximum Allowable Waste Concentration (MAWC) in % Effluent, for both a vertebrate and an invertebrate species, shall be determined and reported. The MAWC in % Effluent shall be compared to the calculated Instream Waste Concentration (IWC) of the effluent. The IWC in % Effluent shall be determined using the daily average effluent flow at the time of sampling and a critical receiving water flow of 4.6 cfs for Fishkill Creek.
- (c) Effluent toxicity monitoring requirements shall be performed quarterly during the one year period beginning on the effective date of notification. The results of each toxicity test shall be submitted no later than 28 days following the end of each test period. These reports shall be submitted to the Regional Water Engineer at Region 3, 200 White Plains Road 5th Floor, Tarrytown, New York 10591, Chief, Compliance Section, Bureau of Watershed Compliance Programs, 50 Wolf Road, Albany, NY 12233-3506 and the Toxicity Testing Unit, Bureau of Watershed Assessment and Research, 50 Wolf Road, Albany, NY 12233-3503.
- (d) Samples for chemical analysis of the parameters limited in this permit, as well as monitoring of the discharge flow rate, pH and temperature, shall be coordinated with the samples collected for toxicity testing.
- (e) Discharges which are chlorinated for the purpose of disinfection should be sampled prior to chlorination or be dechlorinated prior to toxicity testing evaluation. Discharges which use chlorination as part of the waste treatment process other than for disinfection purposes, should be sampled after the chlorination process and evaluated for toxicity.

New York State Department of Environmental Conservation
Division of Environmental Permits, Region 3
21 South Platt Corners Road, New Paltz, New York 12561-1696
Phone: (914) 256-3032 FAX: (914) 255-3042

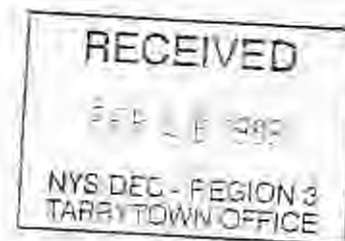


John P. Cahill
Commissioner

February 23, 1999

DEC # 3-1330-00048/00004-0
SPDES ID # NY-0005754
(Please refer to these numbers in all your correspondence)
FACILITY: Texaco Research & Development
LOCATION: Old Glenham Rd., Fishkill, Dutchess County

Mr. William A. Totten
Facility Manager
Texaco
P.O. Box 509
Beacon, NY 12508



Dear Mr. Totten:

Please discard page one of the modified permit sent to Texaco on February 11, 1999, and replace it with the enclosed signed page one, for the above referenced permit.

Sincerely,

Larry Wilson
Environmental Analyst
Division of Environmental Permits

enclosure: permit (page 1)

cc (w/enclosure): R. Hannaford, NYS DEC
J. Marcogliese, NYS DEC
W. Mirabile, 3501
Dutchess County Health Department
EPA, Region 2

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
State Pollutant Discharge Elimination System (SPDES)DISCHARGE PERMIT
Special Conditions (Part I)

Industrial Code: 8731
 Discharge Class (CL): 01
 Toxic Class (TX): T
 Major Drainage Basin: 13
 Sub Drainage Basin: 04
 Water Index Number: H-95 Portion
 Compact Area: -

SPDES Number: NY-0005754
 DEC Number: 3-133000048/00004-0
 Effective Date (EDP): 08/01/95
 Expiration Date (ExDP): 08/01/00
 Modification Date(s): _____
 Attachment(s): General Conditions (Part II) Date 11/90

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the Clean Water Act as amended, (33 U.S.C. Section 1251 et seq.) (hereafter referred to as "the Act")

PERMITTEE NAME AND ADDRESS

Attention: Monica HeaveyName: Texaco Inc.Street: P.O. Box 509City: BeaconState: NYZip Code: 12508

is authorized to discharge from the facility described below:

FACILITY NAME AND ADDRESS

Name: Texaco Research & Development - BeaconLocation (C,T,V): Fishkill (T)County: DutchessFacility Address: Old Glenham RoadCity: GlenhamState: NYZip Code: 12527

NYTM - E: _____

NYTM - N: _____

4

From Outfall No. 003 at Latitude: 41° 31' 01" & Longitude: 73° 56' 21"into receiving waters known as: Fishkill CreekClass: C

and: (list other Outfalls, Receiving Waters & Water Classifications)

006, 011, 012 - Fishkill Creek Class: C008 - Fishkill Creek Class: C009 - Fishkill Creek Class: C010 - Fishkill Creek Class: C

In accordance with the effluent limitations, monitoring requirements and other conditions set forth in Special Conditions (Part I) and General Conditions (Part II) of this permit.

DISCHARGE MONITORING REPORT (DMR) MAILING ADDRESS

Mailing Name: Texaco Inc.Street: P.O. Box 509City: BeaconState: NYZip Code: 12508Responsible Official or Agent: Lawrence R. TrammellPhone: (914) 831-3400

This permit and the authorization to discharge shall expire on midnight of the expiration date shown and the permittee shall not discharge after the expiration date unless this permit has been renewed, or extended pursuant to law. To be authorized to discharge beyond the expiration date, the permittee shall apply for a permit renewal no less than 180 days prior to the expiration date shown above.

Enclosures
Distribution

Permit Administrator:	<u>Michael D. Merriman</u>	<u>LRW</u>
Address:	<u>21 South Park Corners Rd. New Hyde Park NY</u>	
Signature:	<u>Michael D. Merriman</u>	Date: <u>2/23/99</u>

New York State Department of Environmental Conservation
Division of Environmental Permits, Region 3
21 South Putt Corners Road, New Paltz, New York 12561-1696
Phone: (914) 256-3032 FAX: (914) 255-3042



John P. Cahill
Commissioner

February 11, 1999

DEC # 3-1330-00048/00004-0
SPDES ID # NY-0005754
(Please refer to these numbers in all your correspondence)
FACILITY: Texaco Research & Development
LOCATION: Old Glenham Rd., Fishkill, Dutchess County

Mr. William A. Totten
Facility Manager
Texaco
P.O. Box 509
Beacon, NY 12508

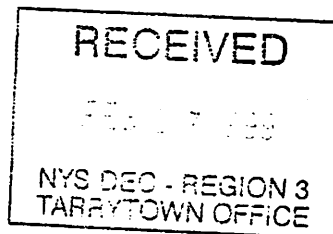
PERMIT MODIFICATION

Dear Mr. Totten:

This Department has made a final determination to modify the above referenced State Pollution Discharge Elimination System (SPDES) Permit. In your letter of February 3, 1999, you stated that Texaco was in agreement with the changes listed in my letter of January 21, 1999. The modified permit, containing the following changes is enclosed:

1. The requirements for monitor 1,1,1-Trichloroethane at outfalls 009 and 010 have been deleted.
2. The industrial code has been corrected to 8731.
3. Page 10A has been renumbered page 10, the narrative on this page has been revised to reflect the status of the Toxicity Testing Program and the schedule of compliance which was completed in 1995 has been deleted.
4. The Toxicity Testing Program narrative on pages 11 and 12 have been revised.
5. Pages 14 and 15 have been added as required by the Discharge Notification Act.

Mr. Totten
February 11, 1999
page 2



The Notice of Waiver, pursuant to the Discharge Notification Act (17-0815-a, ECL) and site map, submitted to this Department with your letter of February 3, 1999, have been forwarded to the Division of Water (DOW) in the DEC Central Office. You will receive a determination from DOW directly, in response to this request.

If you have any questions regarding this matter, I may be contacted at (914) 256-3162. You may also contact Mr. Joe Marcogliese, Regional Water Engineer at (914) 332-1835, ext. 359 with questions of a technical nature.

Sincerely,

A handwritten signature in cursive script that reads "Michael D. Merriman".

Michael D. Merriman
Deputy Regional Permit Administrator
Division of Environmental Permits

enclosure: permit

cc (w/enclosure): R. Hannaford, NYS DEC
~~J. Marcogliese, NYS DEC~~
W. Mirabile, 3501
Dutchess County Health Department
EPA, Region 2



FJ

Michael A Caggiano
Manager
Facilities Engineering

Texaco Inc
Research & Development

P O Box 509
Beacon NY 12508
914 831 3400

December 23, 1992

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

New York State Department of Environmental Conservation
21 South Putt Corners Road
New Paltz, New York 12561

Attn.: Mr. Michael D. Merriman

Texaco Research Center Beacon
Draft SPDES Permit NO. NY 0005754
DEC ID# 3-1330-00048/1-0

Dear Mr. Merriman:

In reference to the draft SPDES permit for the Texaco Research Center - Beacon (TRCB), the "Notice of Complete Application" was published in the November 25, 1992 edition of The Poughkeepsie Journal. Attached is a copy of the affidavit of publication. In addition, Texaco would like to provide the following comments regarding the draft permit:

Action Levels for Tetrachloroethylene & 1,1,1 Trichloroethane Discharge 003

Considering discharge 003 is strictly a non-contact cooling water discharge it is highly unlikely that either of the above compounds were present in the discharge. Please note that both tetrachloroethylene and 1,1,1 Trichloroethane were detected at .002 mg/l and .001 mg/L respectively, below the quantitation limit of .005 mg/l for organic analyses. We believe this may be a laboratory artifact. To test this assumption Texaco conducted a short term monitoring program for the above mentioned compounds. The results in APPENDIX III, Table 1, show there was no detection of the compounds on four separate sampling occasions.

Based on the above, it is requested the department should not impose an action level for tetrachloroethylene and 1,1,1 trichloroethane based on a single sampling event with results that are below the quantitation limit results.

Action Levels for Bis(2-ethyl-hexyl)/Di-N-butyl Phthalate Discharge 008,009 & 010/009

The SPDES renewal application reported the presence of Bis(2-ethyl-hexyl) Phthalate in discharges 008, 009 and 010 at .012 mg/L, .026 mg/L and .004 mg/L respectively. Di-n-butyl Phthalate was also reported at .004 mg/l in discharge 009. TRCB contends this is not a result of actual discharge but rather the result of a common

sampling or laboratory artifact. In fact EPA & NYSDEC have recognized that there are common laboratory contaminants which tend to appear in samples. Moreover, EPA and NYSDEC have made very specific comments in TRCB's RCRA Facility Investigation workplan which addresses this issue and specifically references phthalates. In addition, both agencies went so far as to specify a protocol that has set an allowable limit of phthalates at three times the respective Contract Required Quantitation Limits (CRQLs) for blank water. If the protocol were applied in this situation, then we would see an allowable limit of .030 mg/l which exceeds any of the phthalate concentration values reported. TRCB recognizes that the RCRA and SPDES programs may not have interchangeable standards or protocols. However, EPA and NYSDEC have set somewhat of a precedent by documenting phthalates as a common laboratory contaminant and addressing the issue by setting allowable concentration limits.

Lastly, TRCB initiated a monitoring program after it had reported the above referenced phthalate compounds in the renewal application. As seen in APPENDIX III, Table 1, both phthalate compounds were not detected during the four sampling rounds. Based on the above and the additional sampling which was conducted, TRCB does not feel an action level is warranted. At a minimum, the action levels for Bis(2-ethyl-hexyl) Phthalate in discharge 010 and Di-n-butyl Phthalate in discharge 009 should be dropped as these were detected below the quantitation limit of .010 mg/l.

Flow Limitation - Discharge Point 010

NYSDEC has specified a .180 MGD daily average flow and a .270 MGD daily maximum flow. The .182 MGD average flow as reported on the SPDES renewal application is a 365 day average and not a 30 day average as it has been specified. Texaco reported a daily max flow of .381 MGD on the application and the department has specified a .270 MGD maximum flow. TRCB contends that it cannot meet these parameters on a continuous basis. In fact during the summer months TRCB would frequently exceed both the daily average and the daily max as specified. In APPENDIX I, Figure IA, the graph depicts 1992 monthly average flows for January through November as well as the maximum and minimum flow rates. As can be seen, the proposed daily average would have been exceeded for the months of July through November. In APPENDIX I, Figures IB, IC and ID, the daily flow rates for the same months were graphed to depict the frequency in which the proposed maximum flow rate of .270 MGD would be exceeded. The results are as follows:

<u>Month</u>	<u>Frequency of Days Flow is > .270 MGD</u>
June	0
July	11
August	23
October	7
November	1

Furthermore, Texaco has just completed structural modifications which will introduce an additional projected .060 MGD to the industrial wastewater treatment system. TRCB has been in constant communication with NYSDEC regarding this modification and can be referenced in the following attachments:

Attachment A - 10/16/92 Noncompliance / corrective action letter from M.A. Caggiano (Texaco) to J.F. Marcogliese (NYSDEC).

Attachment B - 10/21/92 Letter from J.F. Marcogliese (NYSDEC) to M.A. Caggiano. Acknowledging above letter and requesting notification when work is complete.

Attachment C - 12/3/92 Letter from M.A. Caggiano (Texaco) to J.F. Marcogliese (NYSDEC) notifying of completed work.

It is certain that the additional .060 MGD will increase future daily average and daily maximum flows. In APPENDIX II, Figure IIA depicts this assumption by graphically showing the addition of .060 MGD to the 1992 monthly averages of flow as well as to the minimum and maximum flows. It can be seen that the daily maximum flow of .270 MGD would have been exceeded for all months. The monthly average flow of .180 MGD would have been exceeded in all the months except January. Even the daily average for July, August, September and October would exceed the proposed .270 MGD daily maximum flow. Still yet the minimum flows for July through November would exceed the .180 MGD daily average flow. In APPENDIX II, Figures IIB, IIC and IID are 1992 daily flows for the months of June through November showing the addition of .060 MGD. The results are as follows:

<u>Month</u>	<u>Frequency of Days Flow is > .270 MGD</u>
June	6
July	19
August	31
September	29
October	26
November	12

Based on the above, it would be an extreme hardship for TRCB to effectively reduce the use of water to meet the proposed daily average and maximum flows. Therefore, TRCB requests an increase of the daily average flow to .350 MGD. This figure is derived from taking the highest 1992 monthly average (September) and factoring in the additional .060 MGD of cooling water. In addition, TRCB questions why the maximum flow limit should be significantly lower than the design capacity of the treatment plant. TRCB requests that the maximum daily flow should be raised to the treatment plant design capacity of .540 MGD.

Discharge Limitation - Benzene,
Toluene & Xylenes Discharge 010

Texaco agrees on the Departments proposal to use a loading factor for Benzene, Toluene & Xylenes (BTX). TRCB is aware the Department used the current individual BTX discharge limitation of 0.05 mg/l and the .180 MGD daily average to calculate a loading factor of 0.075 lb/day for each BTX compound. However, TRCB has indicated that it can not consistently meet the proposed .180 MGD daily average flow. Instead, TRCB is requesting a .350 MGD daily average to reflect present operating conditions. With this in mind TRCB proposes a revised loading factor of 0.146 lbs/day. This loading factor takes into account the anticipated daily average flow of .350 MGD and the present discharge limitation of 0.050 mg/l per BTX compound ($0.146 \text{ lbs/day} = 8.34 \times .350 \text{ MGD} \times 0.050 \text{ mg/l}$). Furthermore, TRCB would not be amenable to a .075 lb/day limit if the Department decided to grant the .350 MGD average daily flow. This would effectively decrease the concentration factor by 50%.

Action Level for Lead
Discharge 003

Lead was not detected during sampling for the renewal application nor was it a parameter on previous permits. TRCB questions the basis for instituting an action level for lead.

Therefore, TRCB requests the removal of lead as an action level for outfall 003.

In closing, if the Department has any questions regarding the above response, please feel free to contact Mr. Fred Jardinico at (914) 838-7725. Furthermore, if the Department finds any of the above comments not agreeable or objectionable, then TRCB would like to meet with NYSDEC and resolve those issues. Please inform us if NYSDEC would like to discuss any outstanding issues.

Very truly yours,

Michael A. Caggiano, P.E.S.

MICHAEL A. CAGGIANO
Manager - Support Services

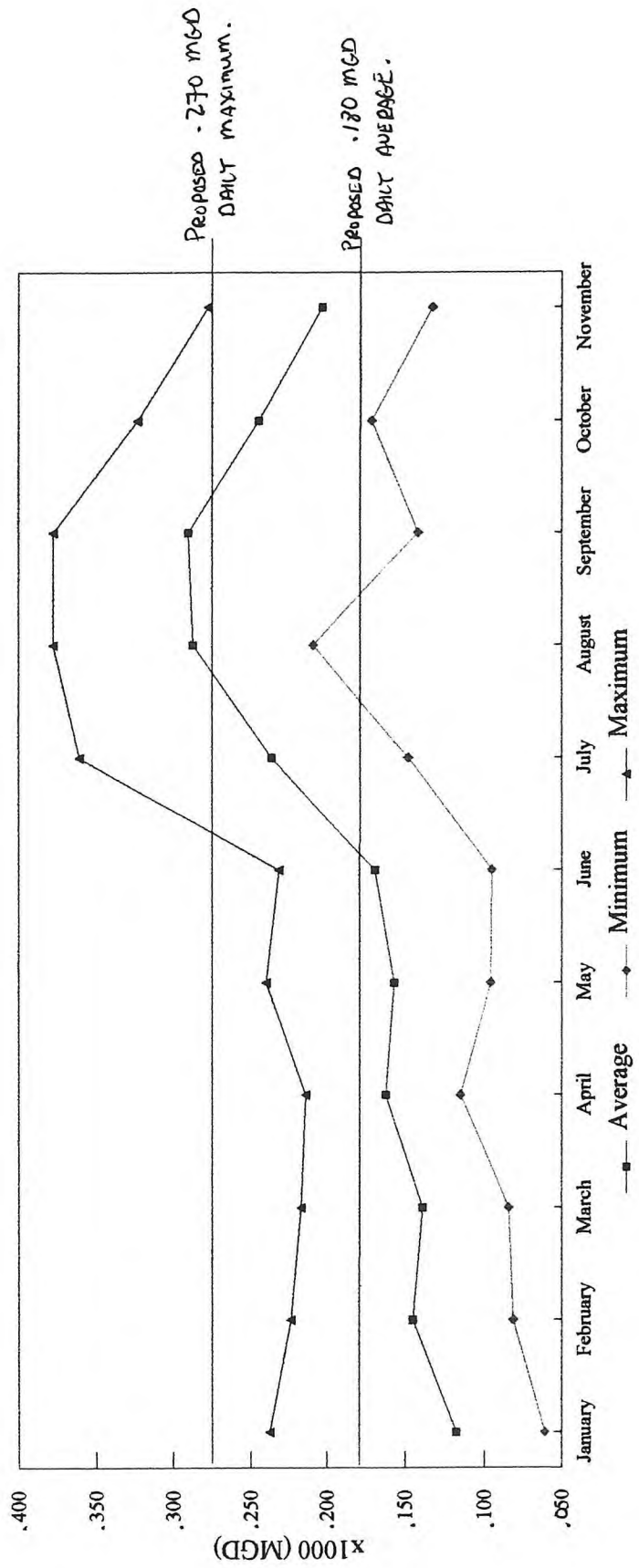
FJ:bn

Attachments

APPENDIX I

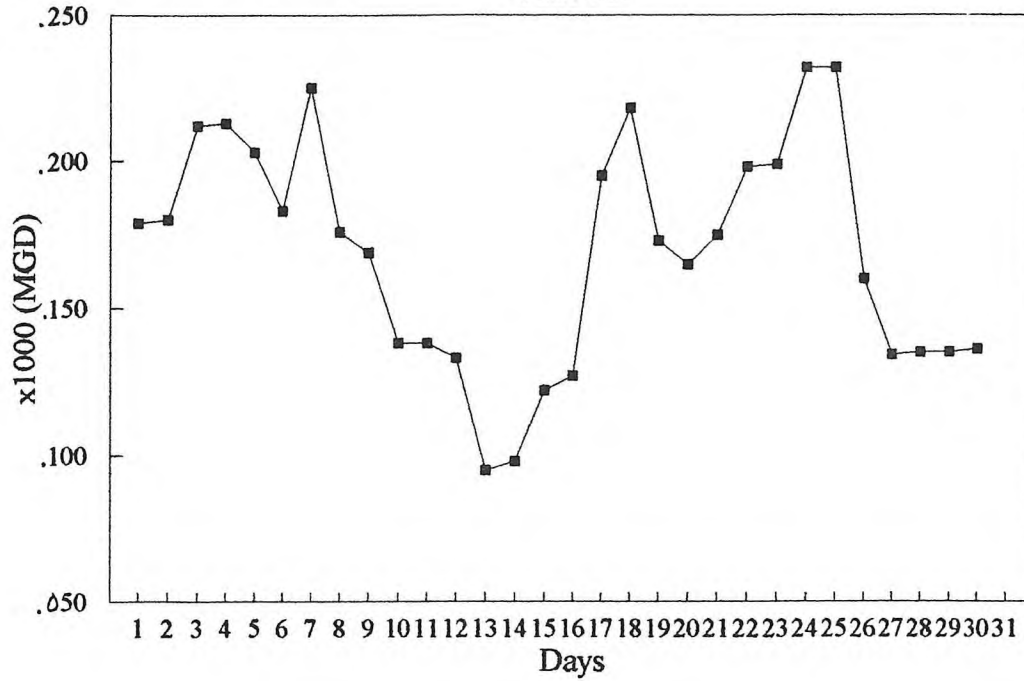
1992 010 Flow Data (x1000)

Month	Average	Minimum	Maximum
January	118	61	238
February	145	81	224
March	139	84	217
April	162	115	214
May	157	96	240
June	169	95	232
July	237	148	361
August	288	209	378
September	291	142	378
October	245	171	323
November	203	133	278



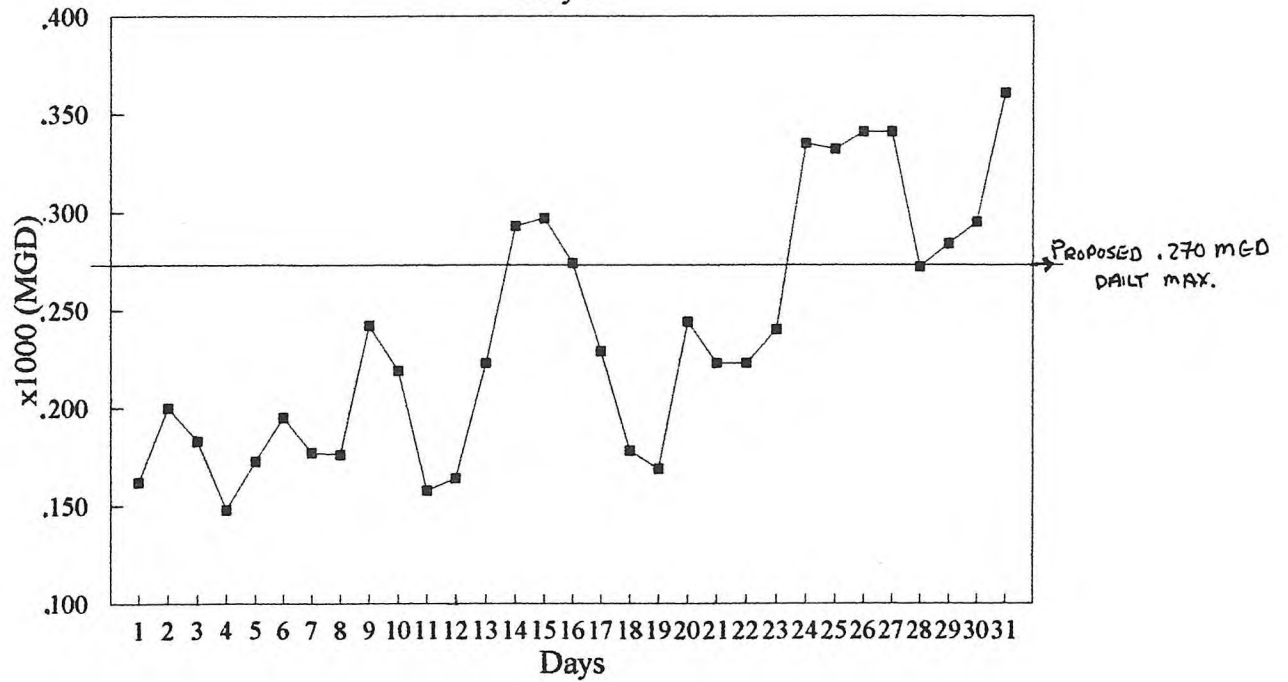
010 FLOW

June 92'



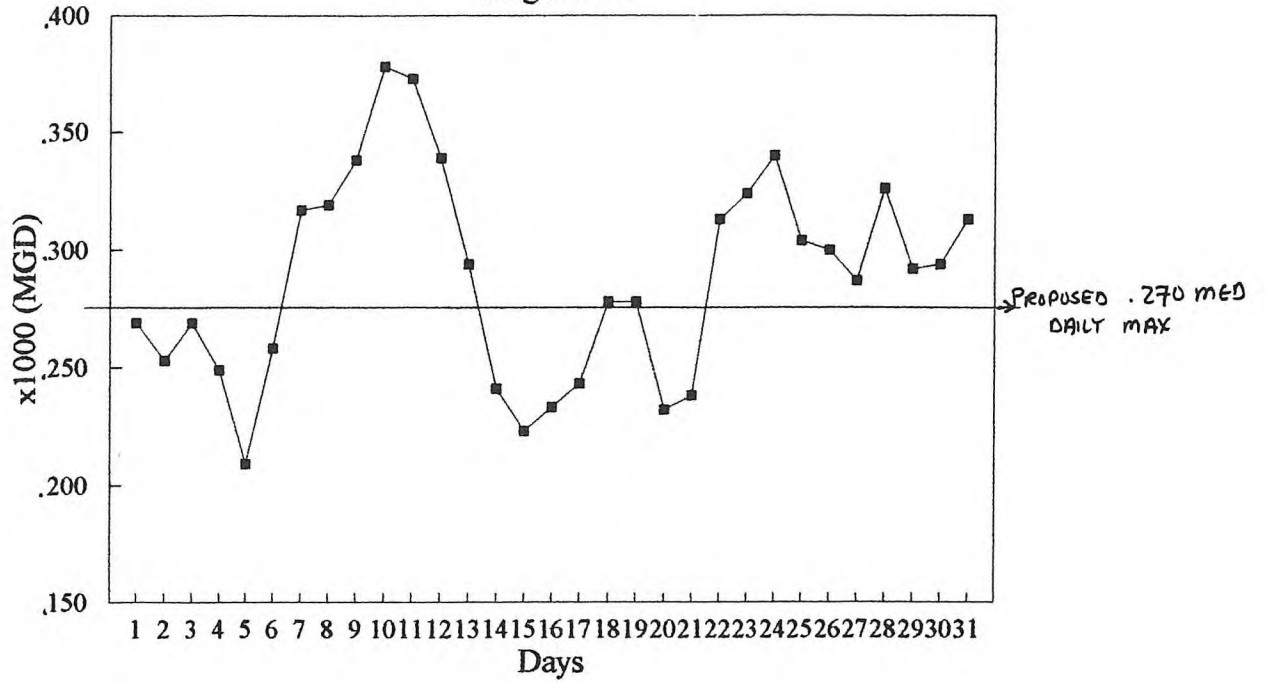
010 Flow

July 92'



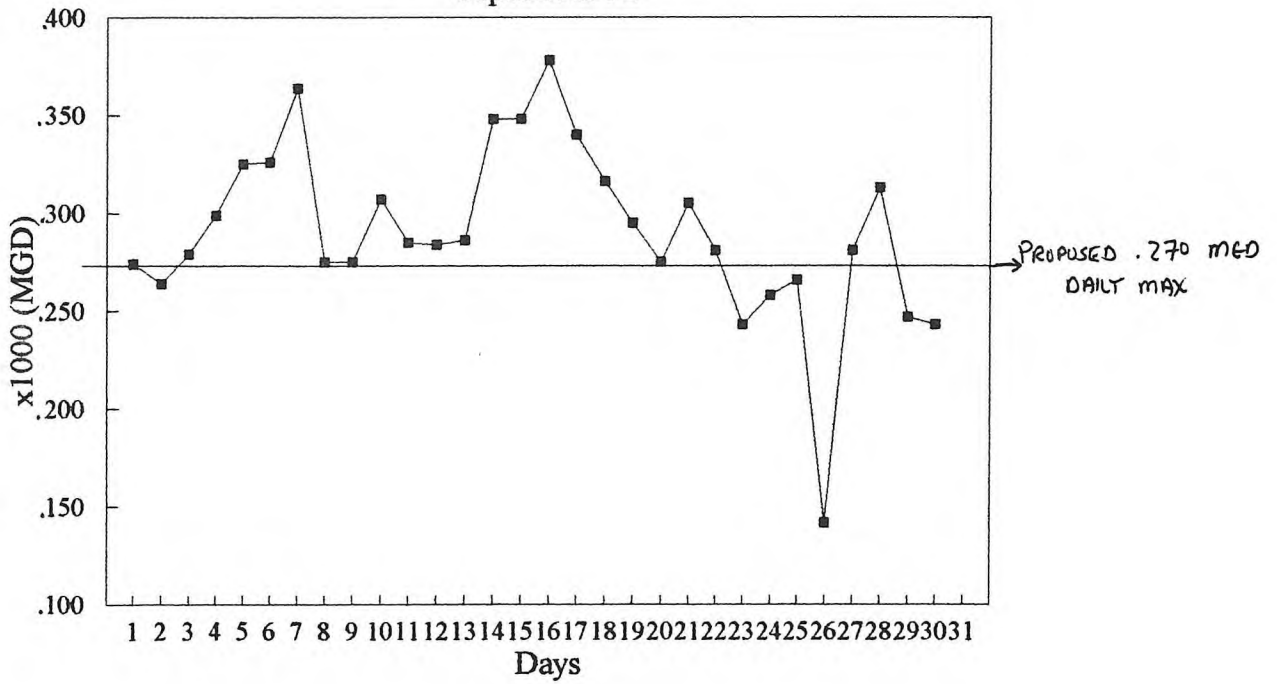
010 Flow

August 92'



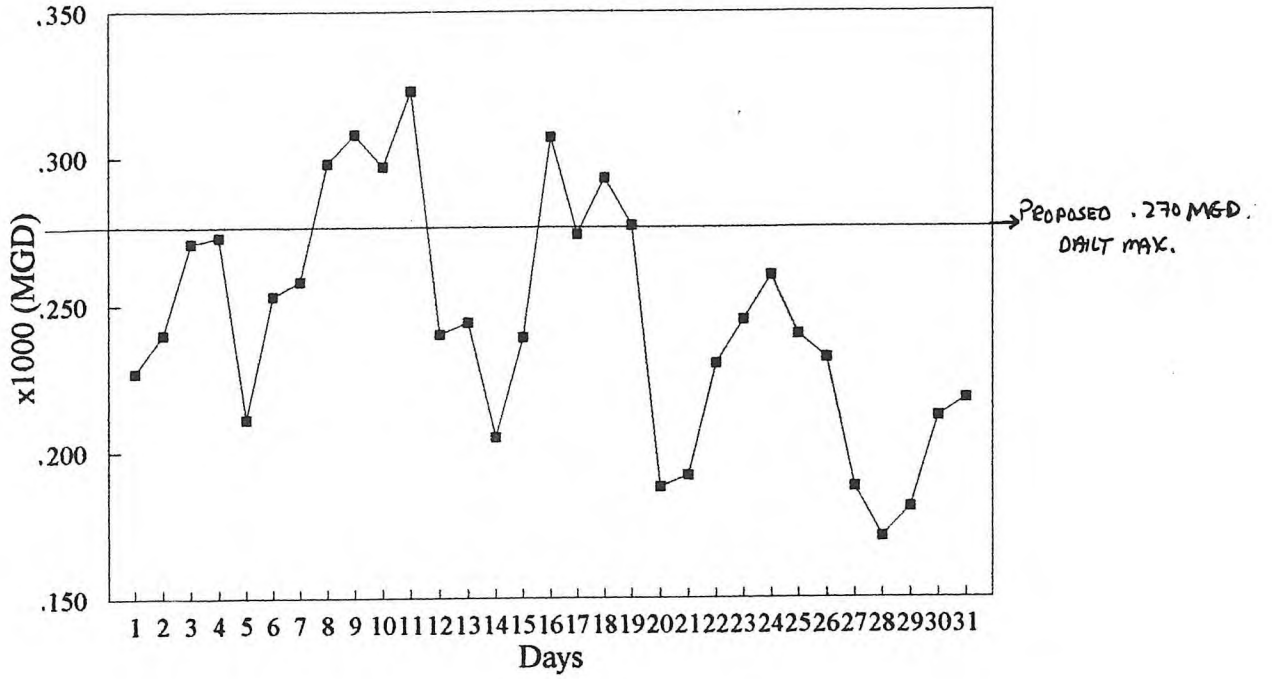
010 Flow

September 92'



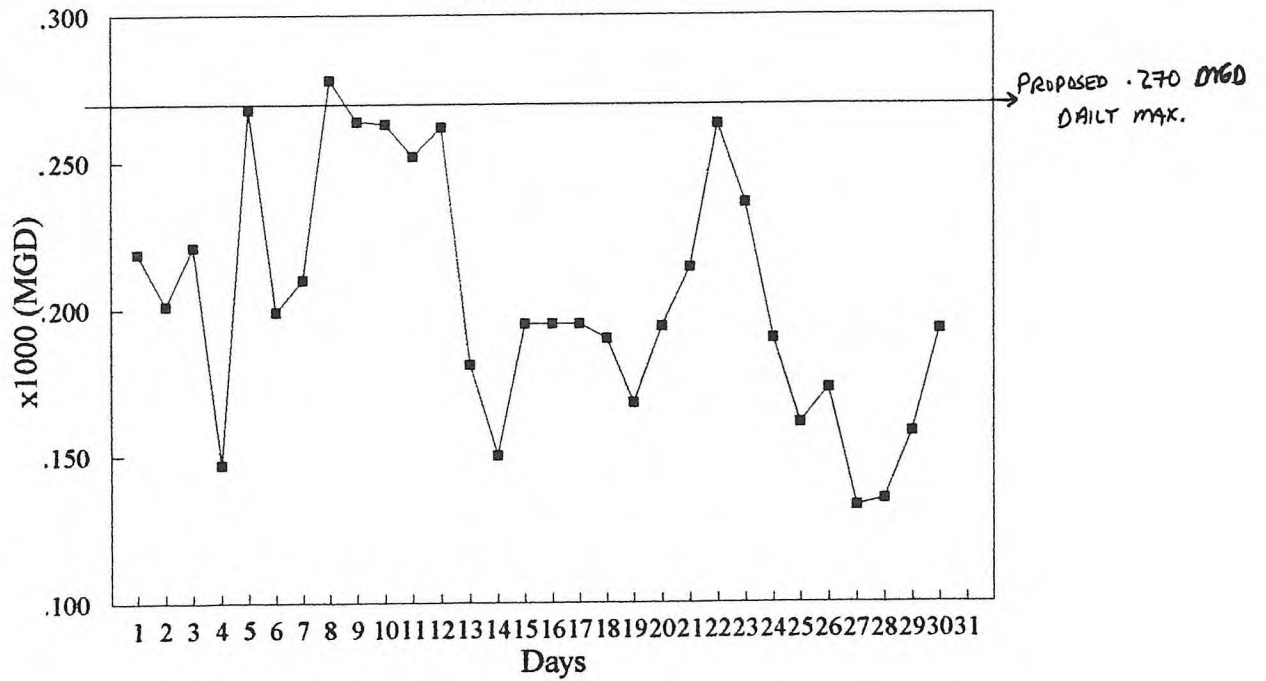
010 Flow

October 92'



010 Flow

November 92'



APPENDIX II

1992 010 Flow Data (x1000)

Includes projected additional flow of 60,000 GPD.

Month	Average	Minimum	Maximum
January	178	121	298
February	205	141	284
March	199	144	277
April	222	175	274
May	217	156	300
June	229	155	292
July	297	208	421
August	348	269	438
September	351	202	438
October	305	231	383
November	263	193	338

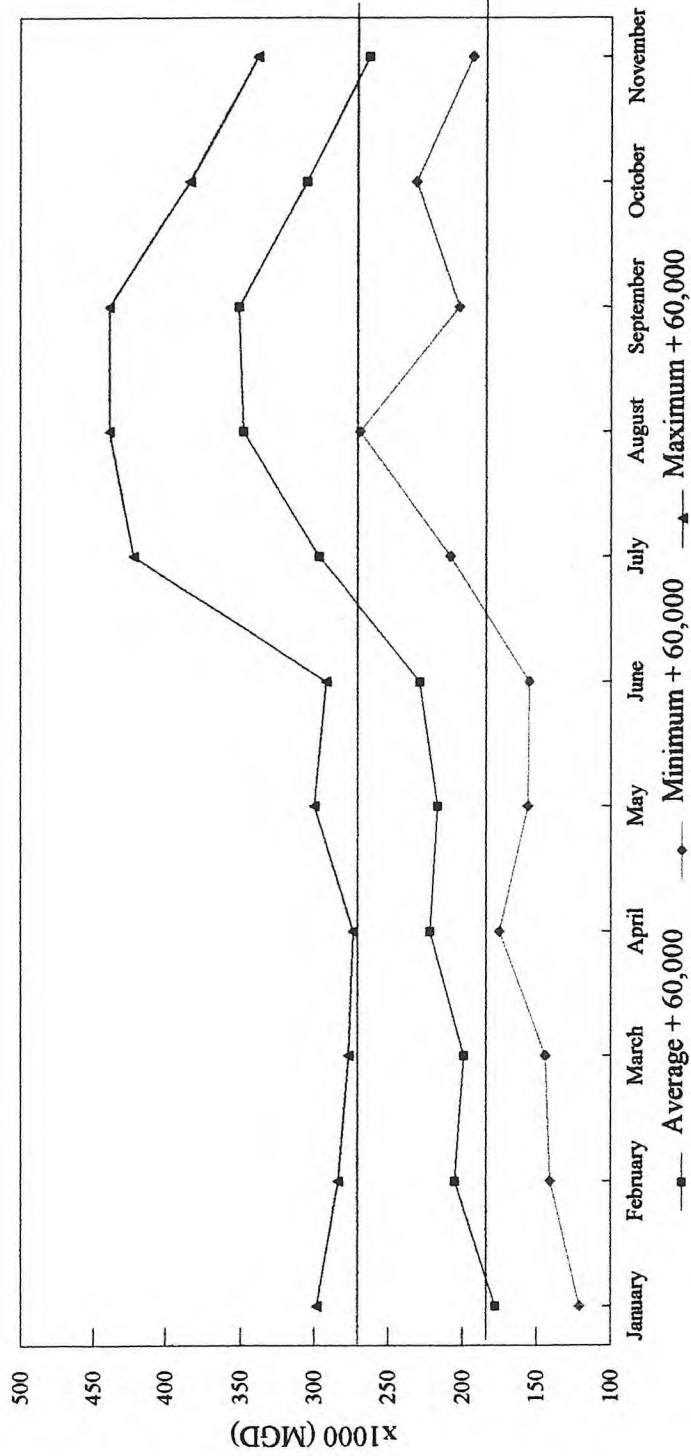
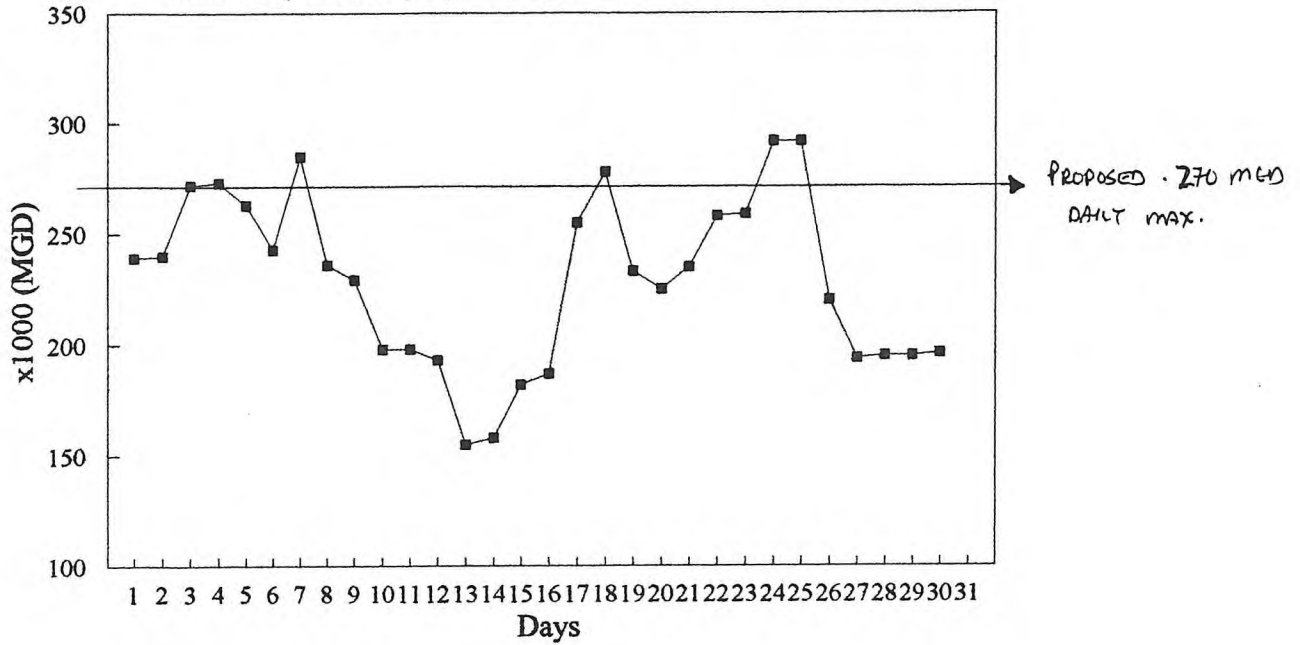


FIGURE T.1A

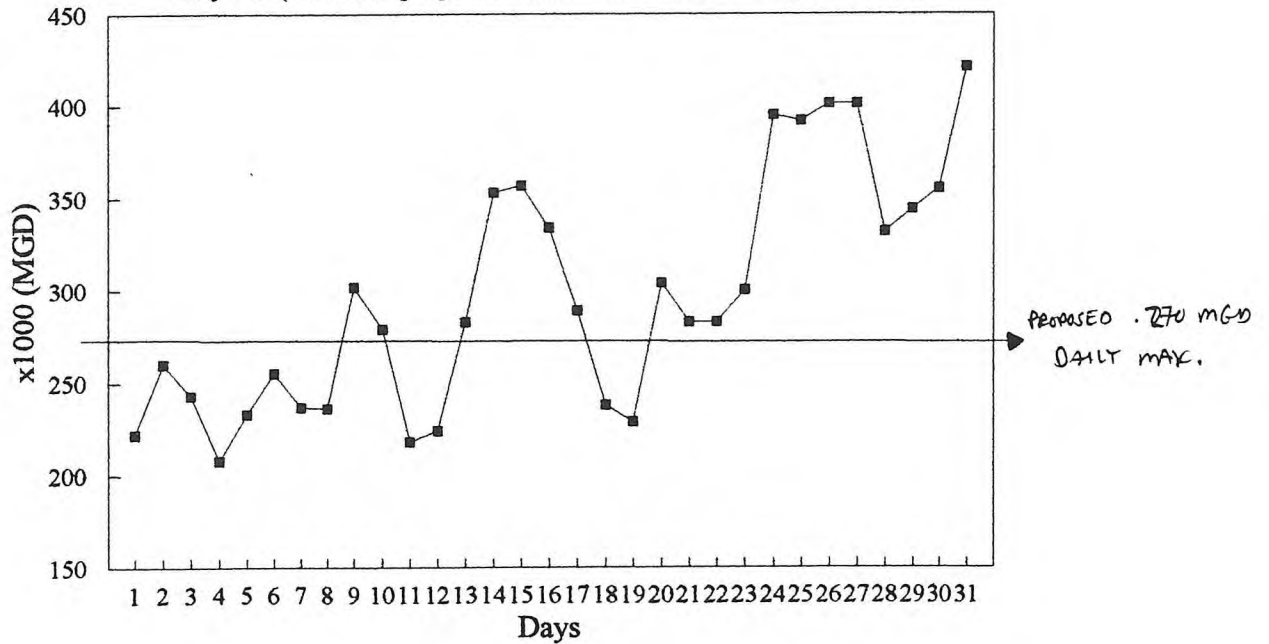
010 Flow

June 92' (Includes projected additional flow of 60,000 GPD)



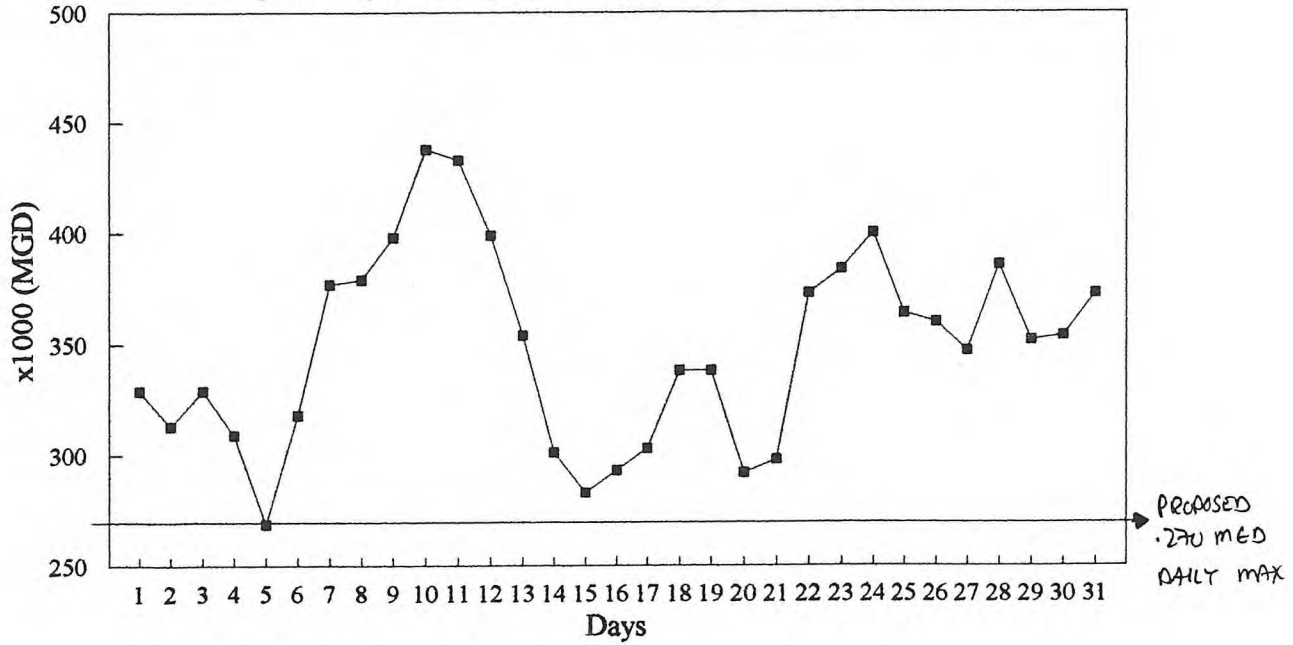
010 Flow

July 92' (Includes projected additional flow of 60,000 GPD)



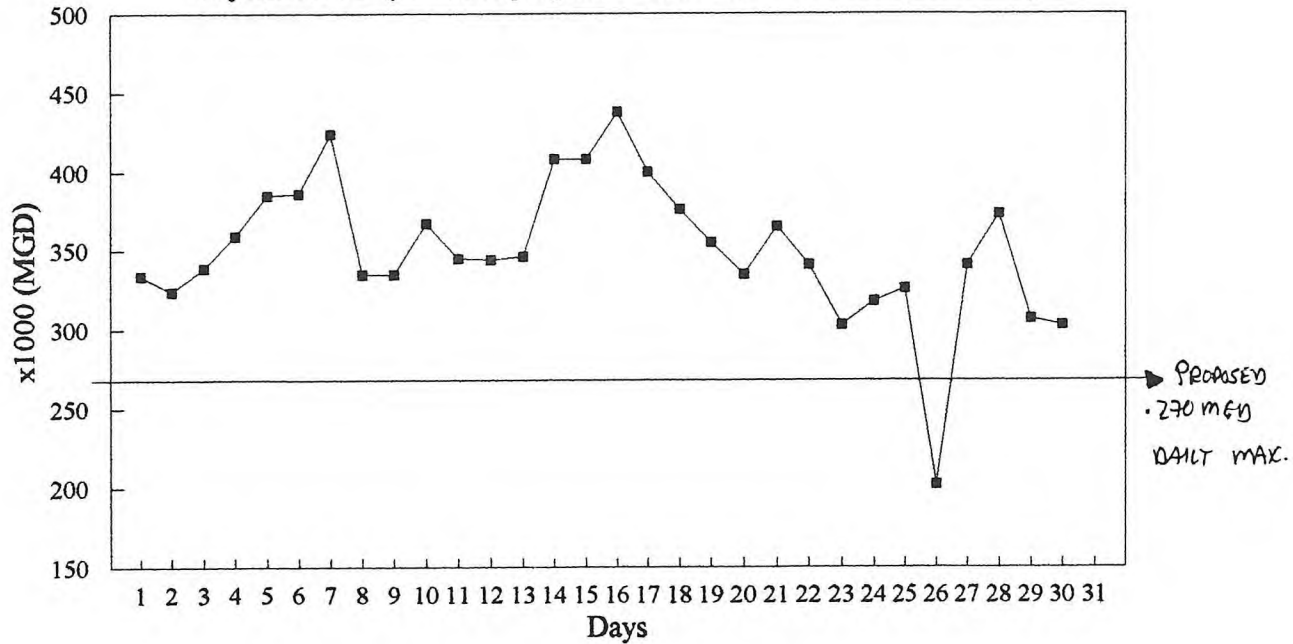
010 Flow

August 92' (Includes projected additional flow of 60,000 GPD)



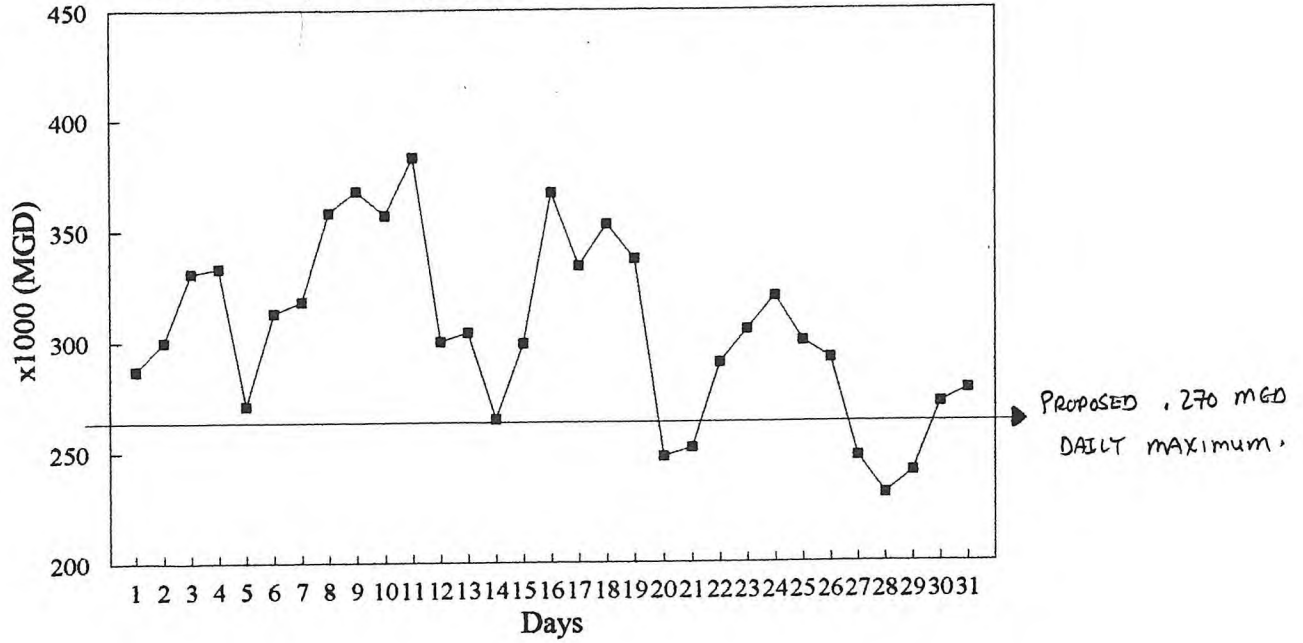
010 Flow

September 92' (Includes projected additional flow of 60,000 GPD)



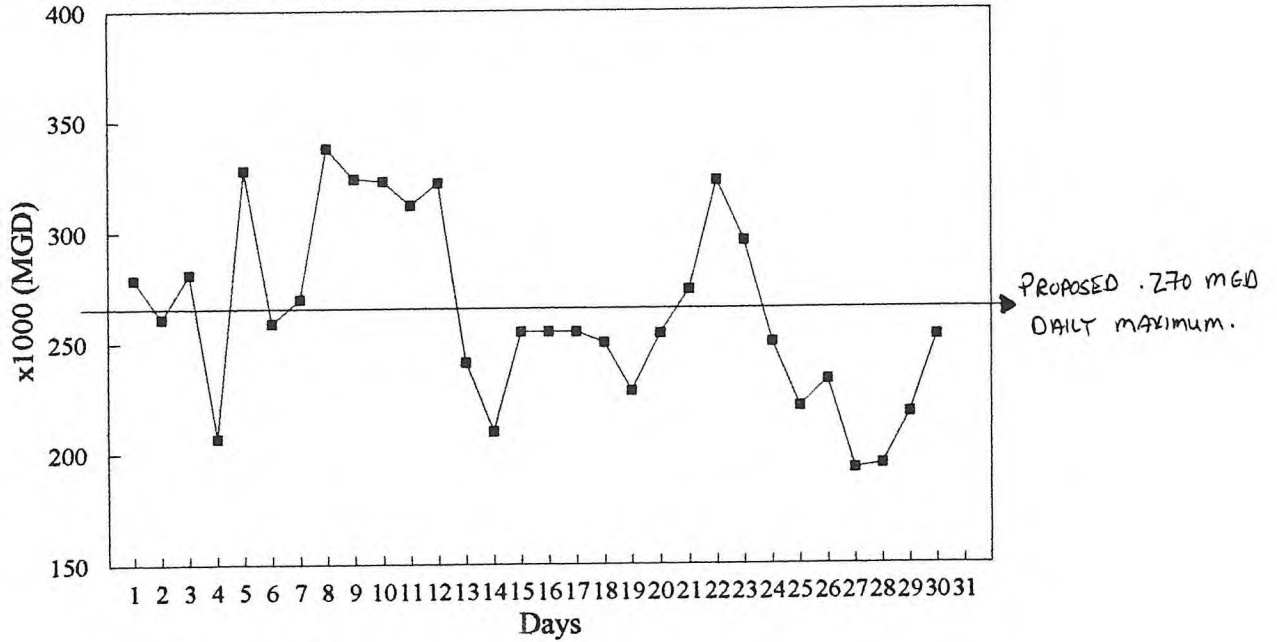
010 Flow

October 92' (Includes projected additional flow of 60,000 GPD)



010 Flow

November 92' (Includes projected additional flow of 60,000 GPD)



APPENDIX III

TABLE 1

|----- Sampling Weeks -----|

Outfall	Compound	7/7/91	7/14/91	7/25/91	8/1/91	Unit
003	1,1,1 Trichloroethane	ND	ND	ND	ND	ug/l
	Tetrachloroethylene	ND	ND	ND	ND	ug/l
	Bis(2-Ethyl-hexyl) Phthalate	ND	ND	ND	ND	ug/l
008	Bis(2-Ethyl-hexyl) Phthalate	ND	ND	ND	ND	ug/l
009	Bis(2-Ethyl-hexyl) Phthalate	ND	NA	ND	ND	ug/l
	Di-N-Butylphthalate	ND	ND	ND	ND	ug/l
010	Bis(2-Ethyl-hexyl) Phthalate	ND	ND	ND	ND	ug/l

ND - Not Detected
 NA - No Analysis

SAMPLING WEEK OF 7/7/91

VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Name: Texaco

Lab Number: 101174-02

Project Name:

Date Collected: 7/11/91

Sample Location: 003-07-11-AG

Date Received: 7/11/91

Matrix: waste

Date Analyzed: 7/18/91

Method: EPA 624

Report Date: 7/19/91

CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l	Data Qualifier
71-55-6	1,1,1-Trichloroethane	5		U
127-18-4	Tetrachloroethene	5		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Name: Texaco

Lab Number: 101174-01

Project Name:

Date Collected: 7/10/91

Sample Location: 003-07-10-24C

Date Received: 7/11/91

Matrix: waste

Date Analyzed: 7/24/91

Method: BN 8270

Report Date: 7/26/91

CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l	Data Qualifier
117-81-7	Bis(2-Ethylhexyl)phthalate	10		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Name: Texaco

Lab Number: 101174-03

Project Name:

Date Collected: 7/10/91

Sample Location: 008-07-10-24C

Date Received: 7/11/91

Matrix: waste

Date Analyzed: 7/24/91

Method: BN 8270

Report Date: 7/26/91

CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l	Data Qualifier
117-81-7	Bis(2-Ethylhexyl)phthalate	10		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Name: Texaco

Lab Number: 101174-04

Project Name:

Date Collected: 7/10/91

Sample Location: 009F-07-10-24C

Date Received: 7/11/91

Matrix: waste

Date Analyzed: 7/24/91

Method: BN 8270

Report Date: 7/26/91

CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l	Data Qualifier
84-74-2	Di-n-butyl phthalate	10		U
117-81-7	Bis(2-Ethylhexyl)phthalate	10		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Name: Texaco

Lab Number: 101174-05

Project Name:

Date Collected: 7/10/91

Sample Location: 010-07-10-24C

Date Received: 7/11/91

Matrix: waste

Date Analyzed: 7/24/91

Method: BN 8270

Report Date: 7/26/91

CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l	Data Qualifier
117-81-7	Bis(2-Ethylhexyl)phthalate	10		U

SAMPLING WEEK OF 7/14/91

VOLATILE ORGANICS ANALYSIS DATA SHEET

Client Name: Texaco

Lab Number: 101416-02

Project Name:

Date Collected: 7/17/91

Sample Location: 003-07-18-AG

Date Received: 7/18/91

Matrix: waste

Date Analyzed: 7/29/91

Method: EPA 624

Report Date: 7/31/91

CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l	Data Qualifier
71-55-6	1,1,1-Trichloroethane	5		U
127-18-4	Tetrachloroethene	5		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Name: Texaco

Lab Number: 101416-01

Project Name:

Date Collected: 7/17/91

Sample Location: 003-07-17-24C

Date Received: 7/18/91

Matrix: waste

Date Analyzed: 8/1/91

Method: EPA 625

Report Date: 8/2/91

CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l	Data Qualifier
117-81-7	bis(2-Ethylhexyl)phthalate	10		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Name: Texaco

Lab Number: 101416-03

Project Name:

Date Collected: 7/17/91

Sample Location: 008-07-17-24C

Date Received: 7/18/91

Matrix: waste

Date Analyzed: 8/1/91

Method: EPA 625

Report Date: 8/2/91

CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l	Data Qualifier
117-81-7	bis(2-Ethylhexyl)phthalate	10		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Name: Texaco

Lab Number: 101416-04

Project Name:

Date Collected: 7/17/91

Sample Location: 009F-07-17-24C

Date Received: 7/18/91

Matrix: waste

Date Analyzed: 8/1/91

Method: EPA 625

Report Date: 8/2/91

CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l	Data Qualifier
84-74-2	Di-n-butylphthalate	10		U

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

Client Name: Texaco

Lab Number: 101416-05

Project Name:

Date Collected: 7/17/91

Sample Location: 010-07-17-24C

Date Received: 7/18/91

Matrix: waste

Date Analyzed: 8/1/91

Method: EPA 625

Report Date: 8/2/91

CAS NO.	COMPOUND	Detection Limit ug/l	Conc. ug/l	Data Qualifier
117-81-7	bis(2-Ethylhexyl)phthalate	10		U

SAMPLING WEEK OF 7/25/91

VOLATILE ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CAMO Laboratories, Inc.	Sample ID: 3630-01
Client Name: Texaco Corporation	Date Collected: 7-25-91
Project/Facility Name: SPDES Renewal	Date Received: 7-25-91
Sample Location: 003-AG	Date Analyzed: 8-6-91
Matrix: Water	
Method: EPA 624	Date Reported: 8-16-91

COMPOUND	Detection Limit (ug/L)	Sample Conc. (ug/L)	Q
Chloromethane	10.0		U
Bromomethane	10.0		U
Vinyl Chloride	10.0		U
Chloroethane	10.0		U
Methylene Chloride	5.0		U
Trichlorofluoromethane	5.0		U
Trans-1,2-dichloroethylene	5.0		U
1,1-Dichloroethene	5.0		U
1,1-Dichloroethane	5.0		U
Dichlorodifluoromethane	5.0		U
Chloroform	5.0		U
1,2-Dichloroethane	5.0		U
2-Chloroethylvinyl Ether	10.0		U
1,1,1-Trichloroethane	5.0		U
Carbon Tetrachloride	5.0		U
Bromodichloromethane	5.0		U
1,2-Dichloropropane	5.0		U
cis-1,3-Dichloropropene	5.0		U
Trichloroethene	5.0		U
Dibromochloromethane	5.0		U
1,1,2-Trichloroethane	5.0		U
Benzene	5.0		U
trans-1,3-Dichloropropene	5.0		U
Bromoform	5.0		U
Tetrachloroethene	5.0		U
1,1,2,2-Tetrachlorethane	5.0		U
Toluene	5.0		U
Chlorobenzene	5.0		U
Ethylbenzene	5.0		U
Acrolein	100.0		U
Acrylonitrile	100.0		U
Total Xylene(s)	15.0		U
1,2 Dichlorobenzene	5.0		U
1,3 Dichlorobenzene	5.0		U
1,4 Dichlorobenzene	5.0		U

CAMO LABORATORIES, INC
367 VIOLET AVENUE
POUGHKEEPSIE, NEW YORK 12601
(914) 473-9200
FED. I.D. #14-1725654
NYS LAB ID NO.: 10310

Howard Thurston
Texaco Inc.
P.O. Box 509
Beacon, NY 12508

Date of Invoice: 8-16-91
Contract #: TRCB-MW-3108
Job #: 571
Typed by: sjr
Invoice #: 91-07-3630

SPDES Renewal

Analytical Report

Date Samples Collected: 7-25-91
Date Samples Received: 7-25-91
Samples Collected By: Client
Samples Delivered By: Camo Lab
Matrix: Water

Sample Identification

(01) 003 - AG
(02) 003 - 24C
(03) 008 - 24C
(04) 009 - 24C
(05) 010 - 24C

Parameters	Unit/ Measure	(01)	(02)	(03)	(04)	(05)
EPA Method 624/Xylenes	ug/l	*				
Bis(2-Ethylhexyl)phthalate	ug/l		<10	<10	<10	<10
Di-n-Butylphthalate	ug/l				<10	

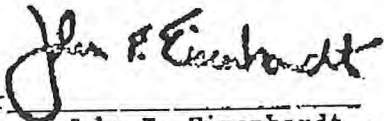
Comments:

All samples will be discarded after twenty-one (21) days or EPA Holding time, whichever is shorter, unless we are notified otherwise.

Hazardous waste samples will be returned to client.

Analytical Methods:

All analytical methods comply with those specified in APHA "Standard Methods" and/or EPA approved methods.

Laboratory Director 
John F. Eisenhardt

SAMPLE WEEK OF 8/1/91

VOLATILE ORGANICS ANALYSIS DATA SHEET

Laboratory Name: CAMO Laboratories, Inc.
 Client Name: Texaco, Inc
 Project/Facility Name: SPDES Renewal
 Sample Location: 003 - AG
 Matrix: Water
 Method: EPA 624

Sample ID: 3777-01
 Date Collected: 8-1-91
 Date Received: 8-1-91
 Date Analyzed: 8-8-91
 Date Reported: 8-21-91

COMPOUND	Detection Limit (ug/L)	Sample Conc. (ug/L)	Q
Chloromethane	10.0		U
Bromomethane	10.0		U
Vinyl Chloride	10.0		U
Chloroethane	10.0		U
Methylene Chloride	5.0		U
Trichlorofluoromethane	5.0		U
Trans-1,2-dichloroethylene	5.0		U
1,1-Dichloroethene	5.0		U
1,1-Dichloroethane	5.0		U
Dichlorodifluoromethane	5.0		U
Chloroform	5.0		U
1,2-Dichloroethane	5.0		U
2-Chloroethylvinyl Ether	10.0		U
1,1,1-Trichloroethane	5.0		U
Carbon Tetrachloride	5.0		U
Bromodichloromethane	5.0		U
1,2-Dichloropropane	5.0		U
cis-1,3-Dichloropropene	5.0		U
Trichloroethene	5.0		U
Dibromochloromethane	5.0		U
1,1,2-Trichloroethane	5.0		U
Benzene	5.0		U
trans-1,3-Dichloropropene	5.0		U
Bromoform	5.0		U
Tetrachloroethene	5.0		U
1,1,2,2-Tetrachlorethane	5.0		U
Toluene	5.0		U
Chlorobenzene	5.0		U
Ethylbenzene	5.0		U
Acrolein	100.0		U
Acrylonitrile	100.0		U
m-Xylene	5.0		U
o,p-Xylene	10.0		U
1,2-Dichlorobenzene	5.0		U
1,3-Dichlorobenzene	5.0		U
1,4-Dichlorobenzene	5.0		U

CAMO LABORATORIES, INC
367 VIOLET AVENUE
POUGHKEEPSIE, NEW YORK 12601
(914) 473-9200
FED. I.D. #14-1725654
NYS LAB ID NO.: 10310

Howard Thurston
Texaco Inc.
P.O. Box 509
Beacon, NY 12508

Date of Invoice: 8-21-91
Contract #: TRCB-MW-3108
Job #: 571
Typed by: mbb
Invoice #: 91-08-3777

SPDES Renewal

COMPLETED

Analytical Report

Sample Identification

Date Samples Collected: 7/31, 8/1/91
Date Samples Received: 8/1/91
Samples Collected By: Client
Samples Delivered By: Camo Lab
Matrix: Water

(01) 003 - AG
(02) 003 - 24C
(03) 008 - 24C
(04) 009 - 24C
(05) 010 - 24C

Parameters	Unit/ Measure	(01)	(02)	(03)	(04)	(05)
EPA Method 624/Xylenes	ug/l	*				
Bis(2-Ethylhexyl)phthalate	ug/l		<10	<10	<10	<10
Di-n-Butylphthalate	ug/l				<10	

Comments:

All samples will be discarded after twenty-one (21) days or EPA Holding time, whichever is shorter, unless we are notified otherwise.

Hazardous waste samples will be returned to client

Analytical Methods:

All analytical methods comply with those specified in APHA "Standard Methods" and/or EPA approved methods.

Laboratory Director: 
E. Eisenhardt

ATTACHMENTS

A, B & C



ATTACHMENT A

Michael A Caggiano
Manager
Facilities Engineering

Texaco Inc
Research & Development

P O Box 509
Beacon NY 12508
914 831 3400

October 16, 1992

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

NYS Department of Environmental Conservation
22 Mamaroneck Avenue
White Plains, New York 10601

Attn: Mr. Joseph Marcogliese

SPDES PERMIT NO. NY 0005754
TEXACO RESEARCH CENTER - BEACON
TEXACO INC.

Dear Mr. Marcogliese:

Pursuant to your telephone conversation on October 16, 1992, with Mr. Steven Peterson of Texaco Research Center-Beacon, New York, this letter is notification of the event described below.

On October 15, 1992 at 5:30 pm, there was a structural failure of a heat exchanger core associated with a stationary automotive engine test cell. The failure resulted in the discharge of approximately 4 gallons of a 50/50 mixture of ethylene glycol and water to the Fishkill Creek. The mixture was discharged through the non-contact cooling water outfall #008.

As discussed in your telephone conversation, there have been several heat exchanger failures in the past year. The failures occurred in Building 28. We are proposing to correct the problem by diverting all the cooling water from these heat exchangers to the on-site industrial wastewater treatment system. We are currently evaluating the existing sewer system in Building 28 as well as the industrial wastewater conveyance system from Building 28 to the treatment plant. Once it is determined that the existing drainage system has adequate capacity to handle the anticipated flow, the piping system from the heat exchangers will be connected to industrial wastewater drains in Building 28. It is anticipated that the sewer system evaluation will be completed by October 23, 1992 and all connections to the wastewater system will be completed by November 30, 1992.

It is unlikely that all engine test cells would be operating simultaneously; however, under this scenario, 60,000 gallons per day (gpd) would be added to the treatment system. The average daily flow in the system through the first nine months of 1992 was approximately 190,000 gpd. Our permit allows 1,080,000 gallons per day. Thus, we do not anticipate problems with the addition flow into the system.

We will inform you of the completion of the project and will contact you if any unanticipated problems arise. If you have any question call Mr. Fred Jardinico at 914-838-7725.

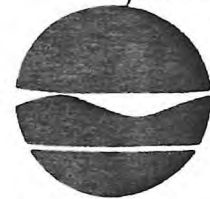
Very truly yours,

A handwritten signature in cursive script, appearing to read "Michael A. Caggiano".

MICHAEL A. CAGGIANO
Manager - Facilities Engineering

SWP:swp

New York State Department of Environmental Conservation
202 Manaroneck Avenue
White Plains, New York 10601
(914) 761-6660



Thomas C. Jorling
Commissioner

ATTACHMENT B

October 21, 1992

Mr. Michael A. Caggiano
Manager, Facilities Engineering
Texaco Inc.
Research & Development
P.O. Box 509
Beacon, New York 12508

Dear Mr. Caggiano:

Thank you for your letter regarding the Beacon Research Center. Please let me know when modifications to the plumbing system have been completed.

Very truly yours,

Joseph F. Marcogliese, P.E.
Environmental Engineer III
Division of Water
Region III

JFM:sec



ATTACHMENT C

Michael A Caggiano
Manager
Facilities Engineering

Texaco Inc
Research & Development

P O Box 509
Beacon NY 12508
914 831 3400

December 3, 1992

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

NYS Department of Environmental Conservation
202 Mamaroneck Avenue
White Plains, New York 10601

Attn: Mr. Joseph Marcogliese

SPDES PERMIT NO. NY 0005754
TEXACO RESEARCH CENTER - BEACON
TEXACO INC.

Dear Mr. Marcogliese:

Pursuant to your letter of October 21, 1992 this is to notify you that the cooling water from eleven heat exchangers associated with our Caterpillar 1K engine test cells have been diverted to the on-site industrial wastewater treatment system.

As stated in my letter of October 16, 1992 this structural modification can have the potential to add 60,000 gallons per day (gpd) to the treatment system. However, we do not anticipate any problems as the additional flow is well within the design capacity of the treatment plant.

Should you have any questions regarding the above, please feel free to contact Mr. Fred Jardinico at 914-838-7725.

Very Truly Yours,

Michael A. Caggiano

Michael A. Caggiano
Manager - Facilities Engineering

FJ:fj



Return to
MPD for
File
MPG

PETROLEUM PRODUCTS

RESEARCH, ENVIRONMENT,
AND SAFETY DEPARTMENT
BEACON RESEARCH LABORATORIES
EVERETT M. JOHNSON
MANAGER

TEXACO INC.
P. O. BOX 509
BEACON, NEW YORK 12508
914-831-3400

August 11, 1982

NOTE	
MPG	7/28/82
RJP	8/10
DCM	8/11
X EMS	

CERTIFIED MAIL - RETURN RECEIPT REQUESTED (Original Only)

N.Y. State Dept. of Environmental Conservation
Regional Engineer Region 3 Headquarters
21 South Putt Corners Road
New Paltz, New York 12561

Attention: Mr. John Sansalone, P.E.

SPDES PERMIT NO. NY 0005754
TEXACO RESEARCH CENTER
TEXACO INC.
DISCHARGE #006 DIVERSION

FKW - 7/28/82
EEN (LEGAL-Cherry Hill)
(By Mail) 7/30/82
RLJ (Legal-Harrison)
(By phone) 8-10-82

Gentlemen:

As discussed in the telephone conversation between you and our Mr. M. P. Gallagher on June 14, 1982, we are writing to you to request that monitoring requirements and limitations for discharge #006 (microstrainer backwash) be deleted from our SPDES permit (No. NY 0005754) as a result of recent wastewater diversion operations within our Research Center.

The recent wastewater diversion operations (see attachment) involved diversion of the microstrainer backwash water from discharge #006 into the laboratory wastewater treatment system (discharge #010) for solids removal.

The laboratory wastewater treatment system (grit traps, API separator, air flotation unit) will provide solids removal for the backwash water by allowing solids to settle out of the water during the approximate 2 hour and 45 minute detention time of the grit traps and API separator.

Also diverted to the laboratory wastewater treatment system, as shown in the attachment, were three, two inch, drain lines that are used to drain the microstrainer tank during inspection and maintenance operations on the microstrainer.

August 11, 1982

Not diverted from discharge #006 are the emergency overflow and emergency dump lines for the microstrainer. The emergency overflow line would discharge strained creek water (creek water that has had solids removed by the microstrainer) in the event that the supply for creek water exceeded the plant demand for creek water. The creek water supply for the plant is provided by three pumps, in series, which are located downstream of the microstrainer. This overflow would not normally occur since the creek water supply to the microstrainer is automatically regulated to meet, and not exceed, the plant's creek water demand.

The emergency dump line would only be used in the case of an emergency where the microstrainer tank would have to be emptied rapidly. This type of emergency has never occurred in the past and, in the event it does occur, it would only discharge a mixture of unstrained and strained creek water into the creek.

Since diversion operations were completed on July 12, 1982, no water has flowed from discharge #006.

As the result of these diversion operations and the information above, at this time it is requested that the monitoring requirements for flow and limitations for pH and total suspended solids (TSS) for discharge #006 be deleted from our SPDES permit.

If you have need for further information relative to the above, please contact Mr. M. P. Gallagher or, in his absence, Mr. R. J. Pecora, at the above address.

Very truly yours,

Everett M. Johnson

MPG-jac

Attachment

cc:

Mr. Jack R. Hill
Director of Environmental Health Services
Dutchess County Dept. of Health
22 Market Street
Poughkeepsie, NY 12601

BCC: R. L. Jacobs, Harrison, NY
E. E. Niehoff, Cherry Hill, NJ
RTR(FKW)
NHF(RJT)

*Return to
MPG
for file*

MPG 24



New York State Department of Environmental Conservation
50 Wolf Road, Albany, New York 12233 (Room 308)

September 1, 1982

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Robert F. Flacke,
Commissioner

Texaco, Inc.
P.O. Box 509
Beacon, NY 12508

Attention: Mr. M.P. Gallagher

Re: **MODIFICATION OF POLLUTANT DISCHARGE
ELIMINATION SYSTEM PERMIT
NO. NY-0005754
Fishkill (T), Dutchess Co.
Texaco, Inc. (Beacon Research Labs)**

Dear Mr. Gallagher:

This is to inform you that pursuant to Environmental Conservation Law ("ECL"), Article 17, Title 8 (McKinney's) and 6 NYCRR, Part 757, the New York State Department of Environmental Conservation has made a determination to modify your referenced Pollutant Discharge Elimination System Permit as indicated in the following enclosed revised permit pages which supersede (and/or supplement) previous corresponding pages. The remainder of the permit continues in full force and effect. Page 2 of 8 was modified to change outfall 006 to an emergency overflow only.

Unless otherwise specified, this modification will become effective immediately unless you petition, pursuant to ECL Section 17-0907, that you be given an opportunity to be heard in connection with this determination and where applicable, if no written objection is received by this office within 30 days after receipt of this modification by the Regional Administrator of EPA. Any such petition for a hearing shall contain specific evidence to support your contention that a hearing is necessary and that you were not previously given an opportunity to be heard.

Very truly yours,

William L. Garvey, P.E.,
Chief, Permit Administration Section
Division of Water

Enclosures

- cc: Region # 3
- Dutchess Co. Health Dept.
- Mr. Adamczyk - BWFD
- Dr. Baker - EPA
- Dr. Spear - EPA

Facility ID No. : NY- 000 5754

Effective Date (EDP) : October 1, 1980

Expiration Date (ExDP) : October 1, 1985

SPDES File
Region #3
Dutchess Co. H.D.
Mr. Crandall, BP&C ✓
Mr. Adamczyk, BIP
Dr. Baker, EPA
Dr. Spear, EPA/NJ

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES)
DISCHARGE PERMIT

Special Conditions
(Part I)

Region	3	County	13
Basin	13	Ring Area	04
Type	20		YES

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the Clean Water Act, as amended, (33 U.S.C. §1251 et. seq.) (hereinafter referred to as "the Act").

Texaco Inc.

Attn: E. M. Johnson, Manager

is authorized to discharge from the facility described below:

Beacon Research Labs
Old Glenham Road
P. O. Box 509
Beacon, NY 12508
Fishkill (T) Dutchess Co.

into receiving waters known as:

Fishkill Creek (Class C)

in accordance with the effluent limitations, monitoring requirements and other conditions set forth in this permit.

This permit and the authorization to discharge shall expire on midnight of the expiration date shown above and the permittee shall not discharge after the expiration date unless this permit has been renewed, or written authorization is given by the Department. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit such information, forms, and fees as are required by the Department of Environmental Conservation no later than 180 days prior to the expiration date.

By Authority of George K. Hansen, P.F., Chief, P.D.E.S. Permit Section
Designated Representative of Commissioner of the
Department of Environmental Conservation

SEP 2 1980

Date

George K. Hansen
Signature

Final EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning EDP (10/1/80) and lasting until EDP + 5 years (10/1/85) the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Number	Effluent Parameter	Discharge Limitations				Monitoring Reqmts.	
		kg/day	(lbs/day)	Other Units (Specify)	Measurement Frequency	Sample Type	
		Daily Avg.	Daily Max.	Daily Avg.	Daily Max.		
003	(Non-Contact Cooling Water) Flow (b) Temperature****					2/Month Weekly	Instantaneous Grab
006	(Emergency Overflow Only)						
008	(Non-Contact Cooling Water) Flow (b) Temperature****					2/Month Weekly	Instantaneous Grab
009	(Sanitary & Boiler Blowdown) Flow Settleable Solids Total Suspended Solids BOD ₅ Oil & Grease 1, 1, 1 - Trichloroethane 0-Dichlorobenzene			25,540 GPD ≤ 0.1 ml/l 30 mg/l** 24 mg/l**	45 mg/l*** 45 mg/l*** 15 mg/l	Daily 2/Month 2/Month Monthly 2/Month 2/Month	Continuou Grab 24-hr. Co. 24-hr. Com. Grab Grab Grab
010	(Laboratory Drains, Water Strainer Backwash & Miscellaneous Cooling Water) Flow Total Suspended Solids BOD ₅ - Net (a) Oil & Grease			1,080,000 GPD 30 mg/l	45 mg/l 15 mg/l	2/Month 2/Month 2/Month	Continuous 24-hr. Co. 24-hr. Com. Grab

The pH shall not be less than standard units nor greater than standard units and shall be monitored as follows:

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): On each individual effluent prior to discharge to Fishkill Creek.

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when the measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein, during any calendar day.

Final EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS
 Continued:

During the period beginning EDP (10/1/80) and lasting until EDP + 5 years (10/1/85) the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Number	Effluent Parameter	Discharge Limitations				Monitoring Reqmts.	
		kg/day Daily Avg.	(lbs/day) Daily Max.	Other Units Daily Avg.	(Specify) Daily Max.	Measurement Frequency	Sample Type
010	(Laboratory Drains & Miscellaneous Cooling Water)						
	Lead	0.64(1.4)	1.4(3.0)	0.1 mg/l*	0.2 mg/l*	Quarterly	24-hr. Comp.
	Temperature****					Weekly	Grab
	1, 1, 1, - Trichloroethane (a)					2/Month	Grab
	0- Dichlorobenzene (a)					2/Month	Grab

Notes:

*Net concentration increase over intake water supply.

**This average shall be the arithmetic mean over a period of 30 consecutive days.

***This maximum shall be the arithmetic mean over a period of 7 consecutive days.

****The water temperature at the surface of the receiving stream shall not be raised to more than 32.2°C (90°F) at any point. Further, in at least 50 percent of the cross-sectional areas and/or volume of the flow of the stream including at least a minimum of 1/3 of the surface measured from shore to shore shall not be raised to more than 2.8°C (5°F) at any point over the temperature that existed before the addition of heat of artificial origin or to a maximum of 30.0°C (86°F), whichever is less. However, the 30.0°C (86°F) maximum temperature limitation shall not apply when the temperature of the receiving waters upstream of the permittee's discharges is greater than 30.0°C (86°F). Under such conditions, the temperature of the receiving waters downstream of the permittee's discharges shall not exceed the upstream

The pH shall not be less than standard units nor greater than standard units and shall be monitored as follows:

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s): On each individual effluent prior to discharge to Fishkill Creek.

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when the measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein, during any calendar day.

Final EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Continued:

During the period beginning EDP (10/1/80) and lasting until EDP + 5 years (10/1/85) the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Number	Effluent Parameter	Discharge Limitations				Monitoring Reqmts.	
		kg/day	(lbs/day)	Other Units (Specify)		Measurement Frequency	Sample Type
		Daily Avg.	Daily Max.	Daily Avg.	Daily Max.		

Notes: ****

temperature. "The receiving water temperature shall be measured both at the Maple Street Bridge and within 90 feet of the most westerly discharge at approximately the same time as the temperature measurements for all outfalls."

(a) Limits may be added after review of engineering report required in schedule of compliance.

(b) The flow for each discharge 003 and 008 shall be measured, or estimated, twice each month during the months of June, July, August, September, and October; the day of flow monitoring for these discharges is to coincide with a day of temperature measurements and minimal storm water flow.

Additional Note:

For all effluents: The pH shall not be less than 6.5 nor greater than 8.5 standard units when the pH of the intake water from Fishkill Creek is within the range of 6.7 to 8.3 standard units. When the intake water pH is less than 6.7 standard units, the effluent pH shall not be more than 0.2 standard units less than the intake water pH. When the intake water pH is greater than 8.3 standard units, the effluent pH shall not be more than 0.2 standard units greater than the intake water pH. pH shall be monitored 2 times/month for each outfall by grab sample.

The pH shall not be less than _____ standard units nor greater than _____ standard units and shall be monitored as follows:

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when the measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein, during any calendar day.

FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

(Continued):

During the period beginning EDP(10/1/80) and lasting until EDP & 5 years, (10/1/85) the discharges from the permitted facility shall be limited and monitored by the permittee as specified below:

Outfall Number	Effluent Parameter	Discharge Limitations				Monitoring Reqmts.	
		kg/day Daily Avg.	(lbs/day) Daily Max.	Other Units Daily Avg.	(Specify) Daily Max.	Measurement Frequency	Sample Type

NOTE: No biocides, corrosion control chemicals, or other water treatment chemicals are authorized for use by the permittee, except those listed in the permit application. If other water treatment chemicals are contemplated application for their approval must be made to the Department.

The pH shall not be less than _____ standard units nor greater than _____ standard units and shall be monitored as follows:

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

The daily average discharge is the total discharge by weight or in other appropriate units as specified herein, during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges in appropriate units as specified herein divided by the number of days during the calendar month when the measurements were made.

The daily maximum discharge means the total discharge by weight or in other appropriate units as specified herein, during any calendar day.

SCHEDULE OF COMPLIANCE FOR EFFLUENT LIMITATIONS

(a) Permittee shall achieve compliance with the effluent limitations specified in this permit for the permitted discharge(s) in accordance with the following schedule:

<u>Action Code</u>	<u>Outfall Number(s)</u>	<u>Compliance Action</u>	<u>Due Date</u>
01	009 & 010	Submit Approvable Engineering Report addressing the use, treatability or removal of 1,1,1 Trichloroethane and Orthodichlorobenzene:	EDP & 6 months (4/1/81)
01	010	Submit Approvable Engineering Report addressing the sources and treatability of BOD ₅ :	EDP & 6 months (4/1/81)

NOTE: This permit will be modified after review of the above engineering reports to reflect appropriate limitations if applicable. Any modification requiring the addition of effluent limitations will require a public notice.

(b) The permittee shall submit to the Department of Environmental Conservation the required document(s) where a specific action is required in (a) above to be taken by a certain date, and a written notice of compliance or noncompliance with each of the above schedule dates, postmarked no later than 14 days following each elapsed date. Each notice of noncompliance shall include the following information:

1. A short description of the noncompliance;
2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirement without further delay;
3. A description of any factors which tend to explain or mitigate the noncompliance; and
4. An estimate of the date permittee will comply with the elapsed schedule requirement and an assessment of the probability that permittee will meet the next scheduled requirement on time.

SCHEDULE OF COMPLIANCE FOR EFFLUENT LIMITATIONS
(Continued)

c) The permittee shall submit copies of the written notice of compliance or noncompliance required herein to the following offices:

Chief, Compliance Section
New York State Department of Environmental Conservation
50 Wolf Road
Albany, New York 12233

Regional Engineer
New York State Department of Environmental Conservation
Sub-Region #3
202 Mamaroneck Avenue, White Plains, New York 10601

Dr. Richard Baker, Chief, Permits Administration Branch
Planning & Management Division, USEPA Region II
26 Federal Plaza, New York, New York 10007

Dutchess County Department of Health
22 Market Street
Poughkeepsie, New York 12601

The permittee shall submit copies of any engineering reports, plans of study, final plans, as-built plans, infiltration-inflow studies, etc. required herein to the New York State Department of Environmental Conservation Regional Office specified above unless otherwise specified in this permit or in writing by the Department or its designated field office.

91-18-2 (9/76)

MONITORING, RECORDING AND REPORTING

a) The permittee shall also refer to the General Conditions (Part II) of this permit for additional information concerning monitoring and reporting requirements and conditions.

b) The monitoring information required by this permit shall be summarized and reported by submitting a completed and signed Discharge Monitoring Report form once every 3 months to the Department of Environmental Conservation and other appropriate regulatory agencies at the offices specified below. The first report will be due no later than Oct. 28, 1980. Thereafter, reports shall be submitted no later than the 28th of the following month(s) Jan., Apr., July, Oct.

Chief, Waste Source Monitoring Section
New York State Department of Environmental Conservation
Room 300 - 50 Wolf Road - Albany, New York 12233

New York State Department of Environmental Conservation
Regional Engineer - Sub-Region #3
202 Mamaroneck Avenue - White Plains, N.Y. 10601

Dutchess County Department of Health
22 Market Street - Poughkeepsie, N.Y. 12601

Dr. Richard Baker, Chief - Permits Administration Branch
Planning & Management Division - USEPA Region II
26 Federal Plaza - New York, New York 10007

c) If so directed by this permit or by previous request, Monthly Wastewater Treatment Plant Operator's Reports shall be submitted to the DEC Regional Office and county health department or county environmental control agency specified above.

d) Each submitted Discharge Monitoring Report shall be signed as follows:

1. If submitted by a corporation, by a principal executive officer of at least the level of vice president, or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge described in the Discharge Monitoring Report originates;

2. If submitted by a partnership, by a general partner;

3. If submitted by a sole proprietor, by the proprietor;

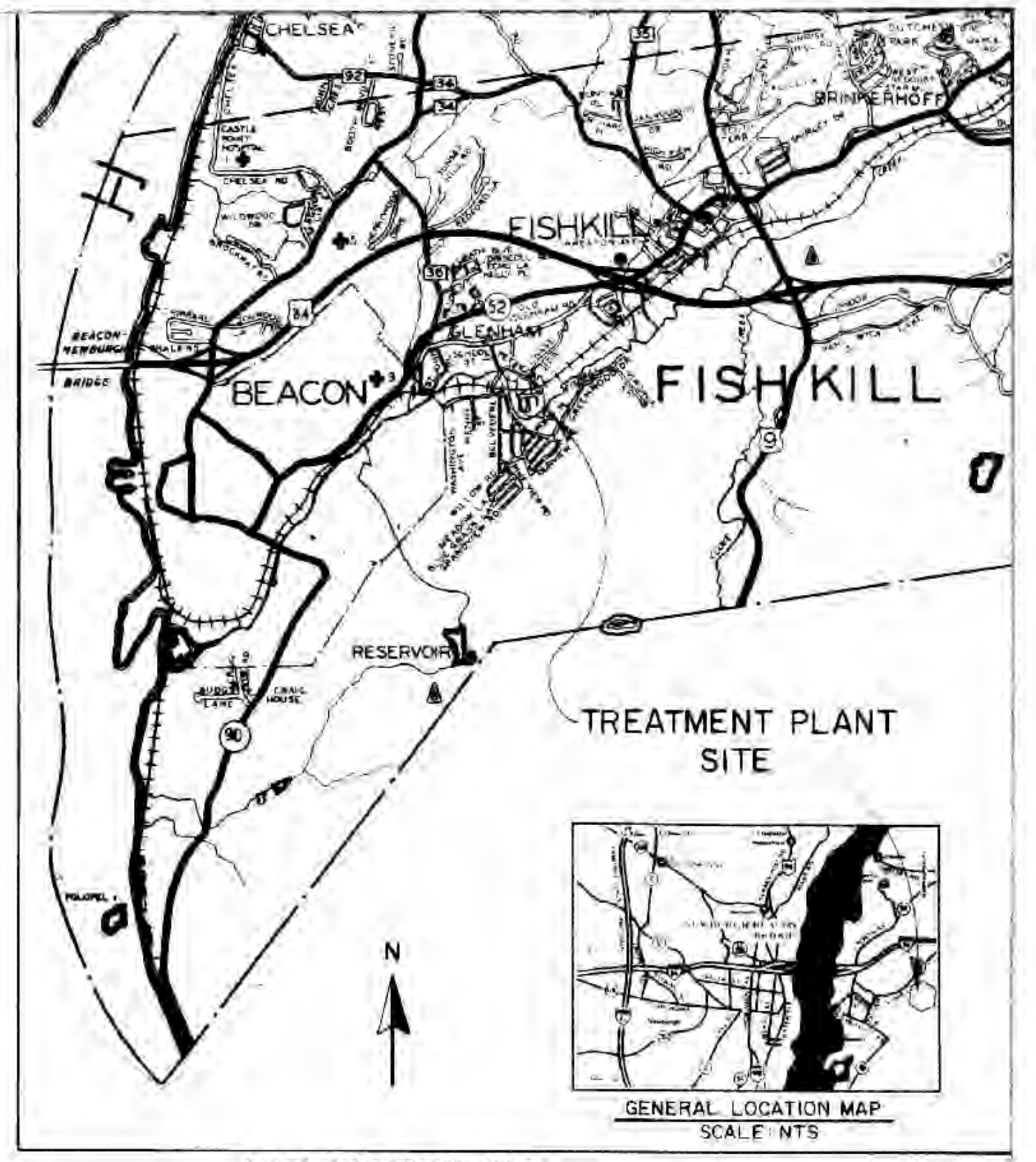
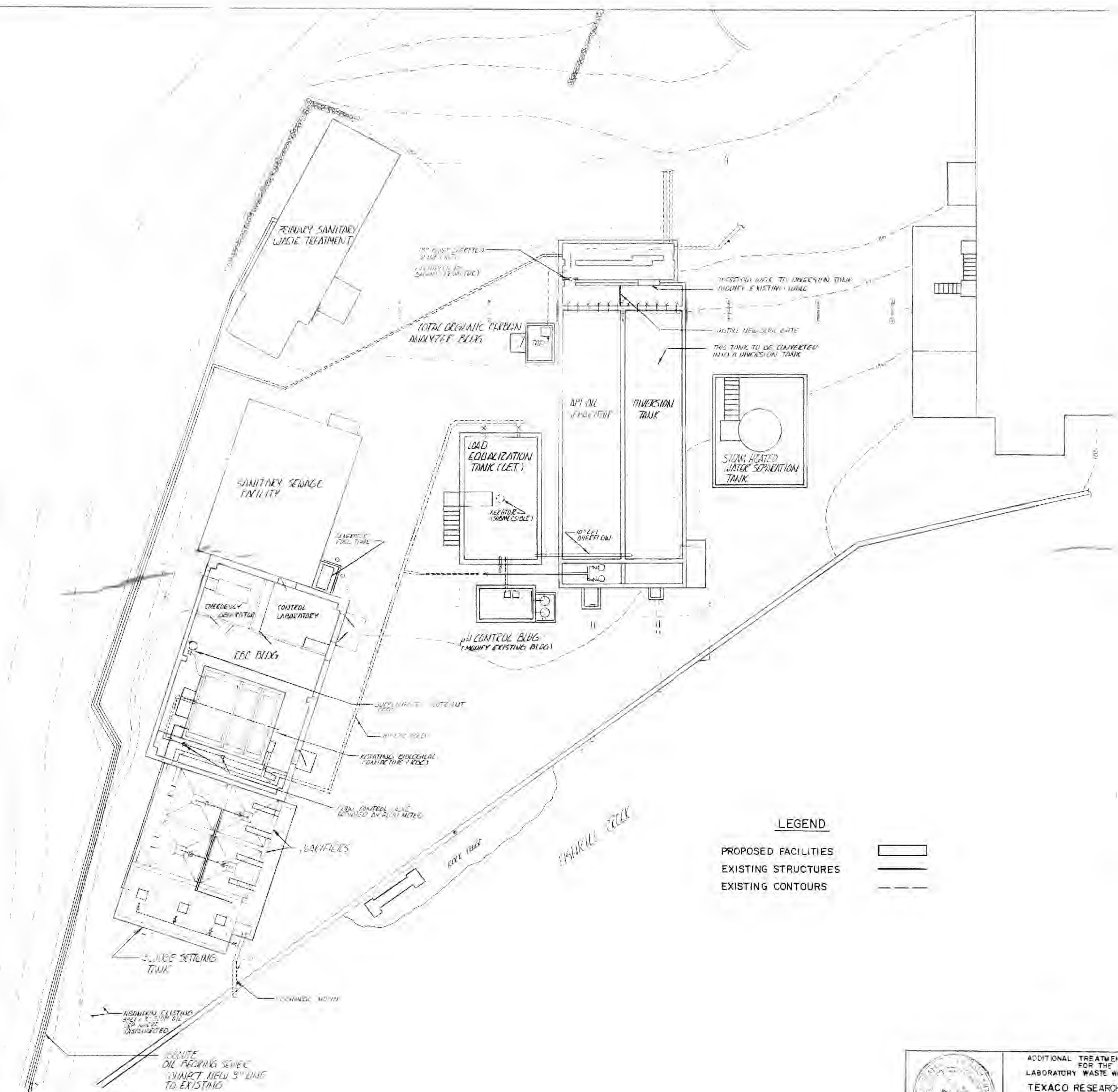
4. If submitted by a municipality, State or Federal agency, or other public entity; by a principal executive officer, ranking elected official, commanding officer, or other duly authorized employee.

e) Unless otherwise specified, all information submitted on the Discharge Monitoring Form shall be based upon measurements and sampling carried out during the most recently completed reporting period.

f) Blank Discharge Monitoring Report Forms are available at the above addresses.

Appendix B

Stamped Drawings "Additional Treatment Facilities for the Laboratory Waste Water System", Kartiganer Associates, P.C., October 1984.



AREA LOCATION MAP
SCALE: 1" = 1 MI.

SCHEDULE OF DRAWINGS

1. PROJECT FACILITIES PLAN
2. FACILITIES PLAN: LOAD EQUALIZATION
API SEPARATION
TOC MONITORING
3. FACILITIES PLAN: RBC BUILDING
CLARIFIERS
SLUDGE SETTLING TANK
4. HYDRAULIC PROFILE

LEGEND

- PROPOSED FACILITIES [Solid line]
- EXISTING STRUCTURES [Dashed line]
- EXISTING CONTOURS [Dotted line]

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 PROJECT: **TEXACO RESEARCH CENTER**
 BEACON (NY 000 5754) FISHKILL DUTCHESS CO.
 NOV 11 1984
 Recommended by: *Eric K. Backwell*

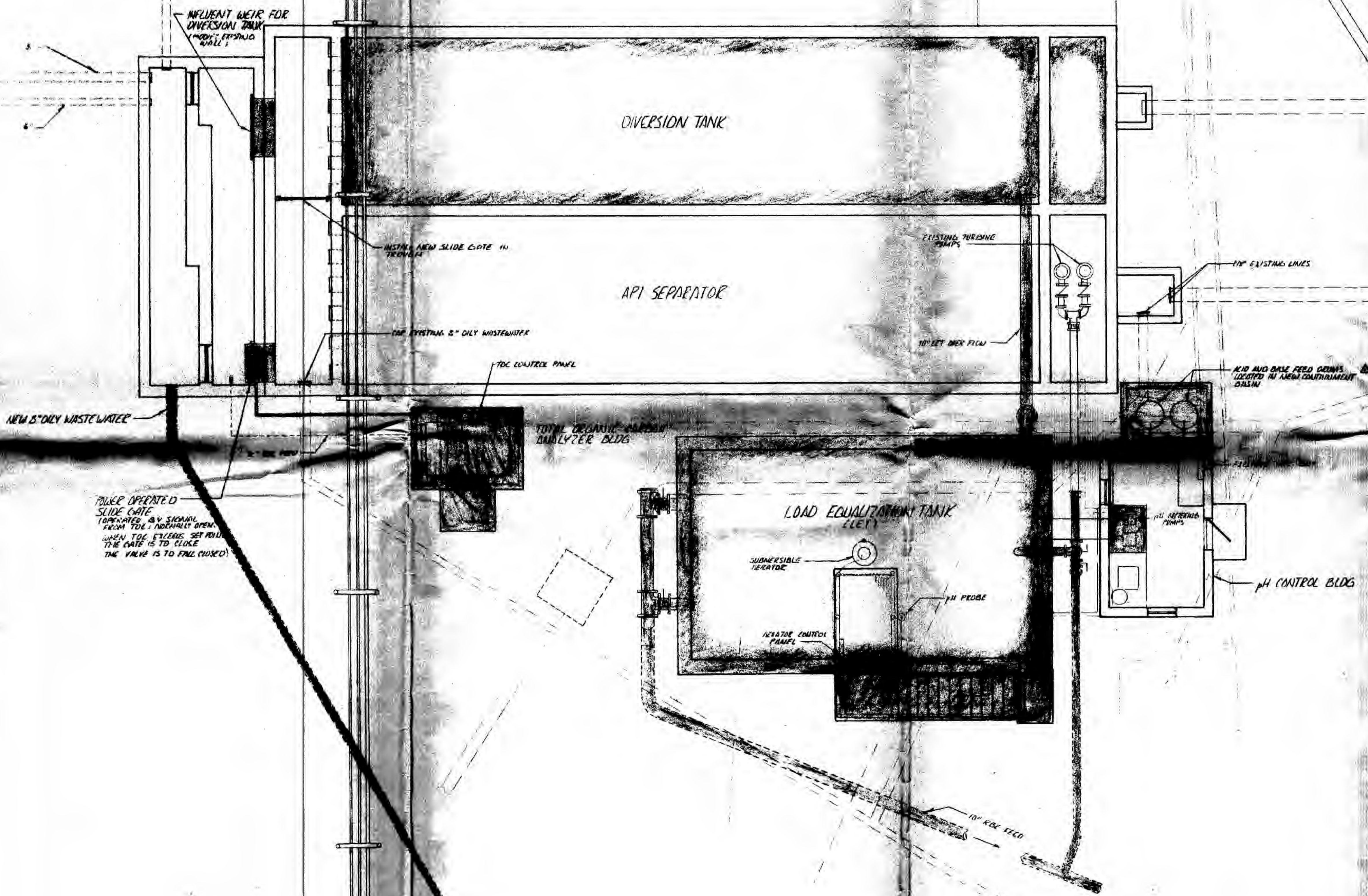
REV.	DR.	CK.	DATE	DESCRIPTION
1	SK	SK	10-23-84	REVISED LOCATION OF pH FEED DRUMS



ADDITIONAL TREATMENT FACILITIES FOR THE LABORATORY WASTE WATER SYSTEM
TEXACO RESEARCH CENTER
 TOWN OF FISHKILL DUTCHESS COUNTY, N.Y.
 SPOES NO. 005754 (1) (EXPIRES 1991)
 DRAWN KM
 CHECKED SK

KARTIGANER ASSOCIATES, P.C.
 CONSULTING ENGINEERS
 555 ROUTE 94 NEWBURGH NEW YORK 12550
 PROJECT: FACILITIES PLAN
 SHEET 1 OF 4
 JOB NO. 083-276

UNAUTHORIZED ALTERATION OR ADDITION TO THIS PLAN IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.



POWER OPERATED SLIDE GATE OPERATED BY SIGNAL FROM TOL. NORMALLY OPEN. WHEN TOL EXCEEDS SET POINT THE GATE IS TO CLOSE. THE VALVE IS TO FAIL CLOSED.

New York State Department of Environmental Conservation
 Division of Water
 Bureau of Wastewater Facilities Design
 By direction of the Commissioner these plans are hereby approved pursuant to the Environmental Conservation Law. See first sheet for date and signature.

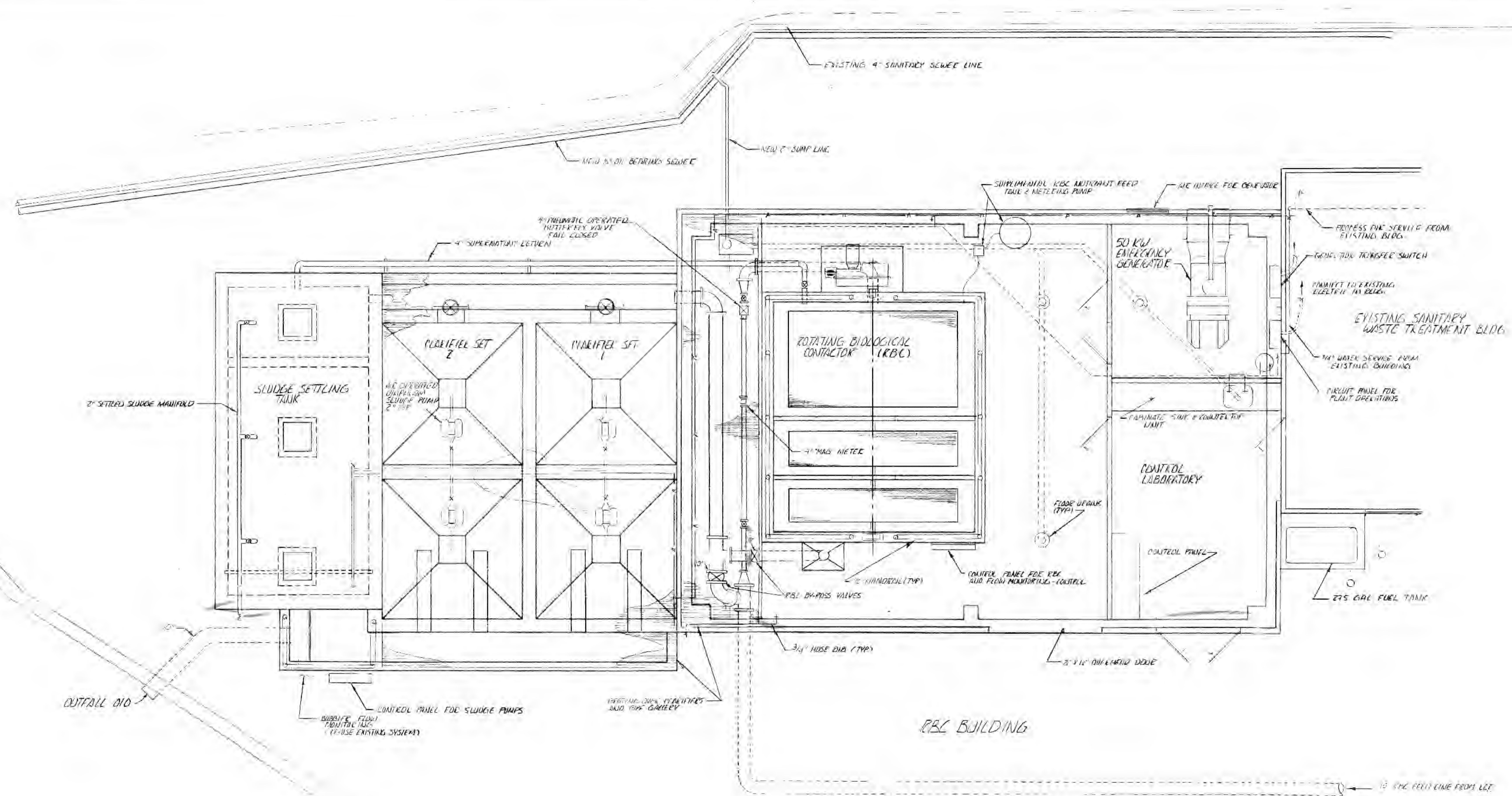
REV.	DR.	CK.	DATE	DESCRIPTION
1	SK	SK	10/23/84	REVISED LOCATION OF pH FEED DEUMS

UNAUTHORIZED ALTERATION OR ADDITION TO THIS PLAN IS A VIOLATION OF SECTION 1705(2) OF THE NEW YORK WATER RESOURCE LAW.



ADDRESS: 1000 FACILITIES LABORATORY WATER TREATMENT SYSTEM TEXACO RESEARCH CENTER TOWN OF PEARL, DUTCHESS COUNTY, N.Y. 12584 (DISCHARGE #00)
 DRAWN: SK SCALE: 1/4" = 1' CHECKED: SK DATE: 11/14/84

KARTIGANER ASSOCIATES, P.C.
 CONSULTING ENGINEERS
 555 ROUTE 94 · NEWBURGH · NEW YORK 12550
 PROCESS FACILITIES PLAN
 LOAD EQUALIZATION
 API SEPARATION
 TOC MONITORING
 SHEET: 2
 OF: 4
 JOB NO: 00572

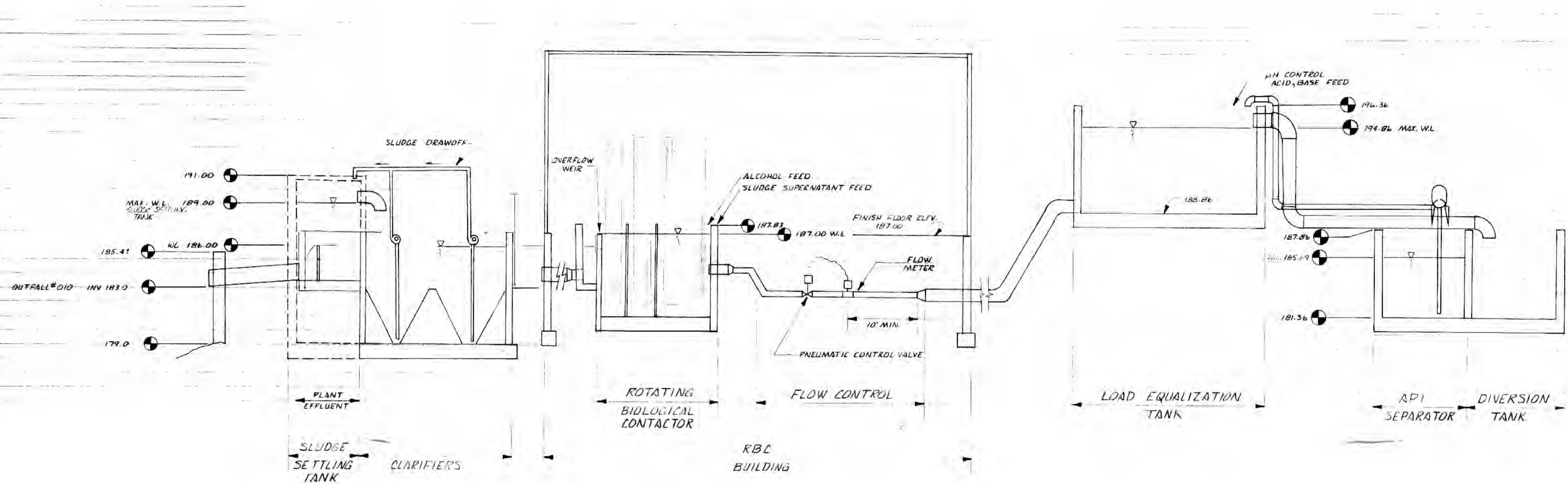


FISHKILL CREEK

New York State Department of Environmental Conservation
 Division of Water
 Bureau of Water Supply Facilities Design
 By direction of the Commissioner these plans are
 hereby approved pursuant to the Environmental Conservation
 Law. See first sheet for date and signature.

UNAUTHORIZED ALTERATION OR ADDITION
 TO THIS PLAN IS A VIOLATION OF
 SECTION 7209(2) OF THE NEW YORK
 STATE EDUCATION LAW.

	ADDITIONAL TREATMENT FACILITIES FOR THE LABORATORY WASTE WATER SYSTEM TEXACO RESEARCH CENTER TOWN OF FISHKILL DUTCHESS COUNTY, N.Y. SPDES NO. 008784 DISCHARGE # 0101	KARTIGANER ASSOCIATES, P.C. CONSULTING ENGINEERS 555 ROUTE 94 NEWBURGH NEW YORK 12550
	DRAWN: KM SCALE 1/4"=1' CHECKED: SK DATE 14 AUG 84	FACILITIES PLAN RBC BUILDING CLARIFIERS SLUDGE SETTLING TANK



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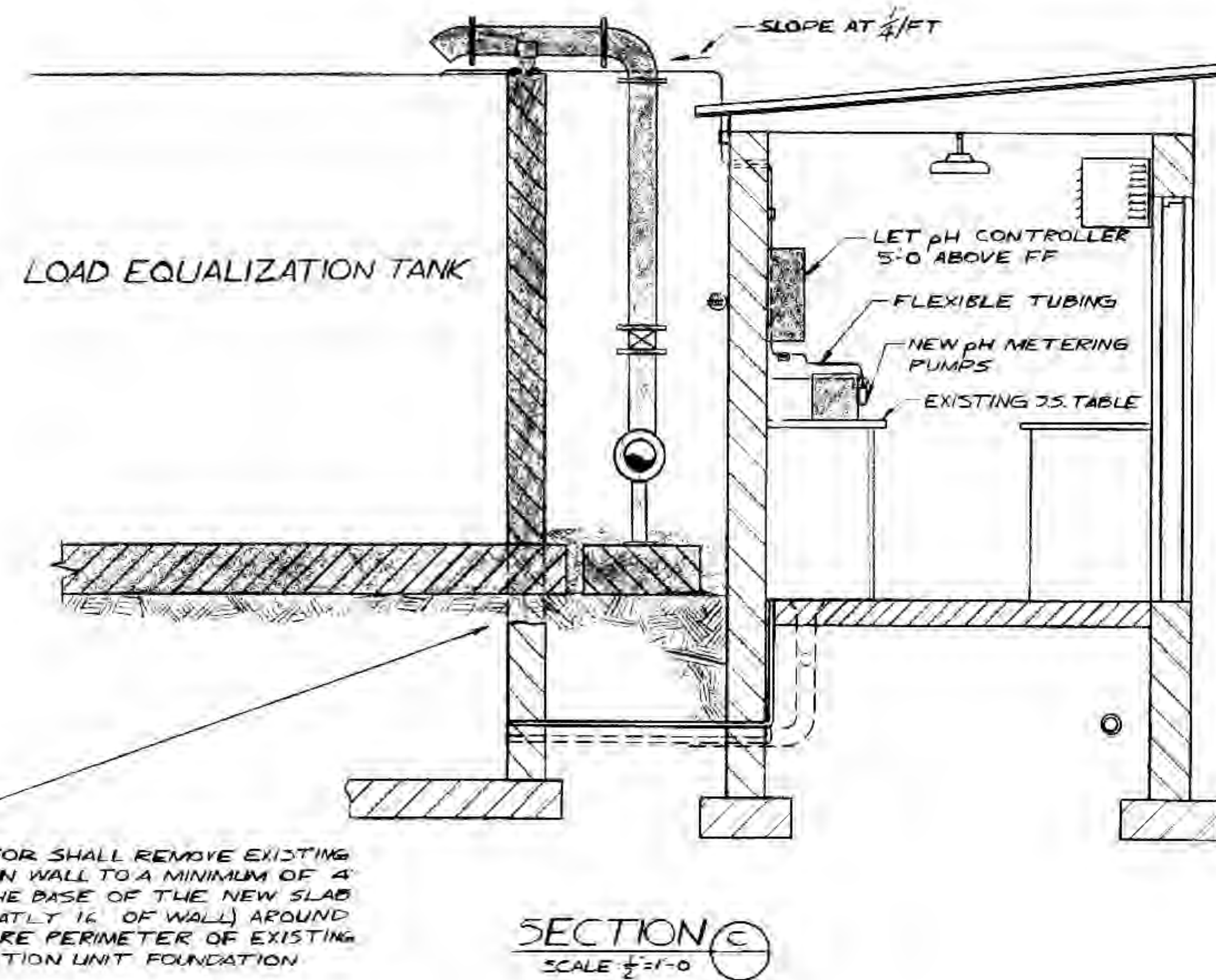
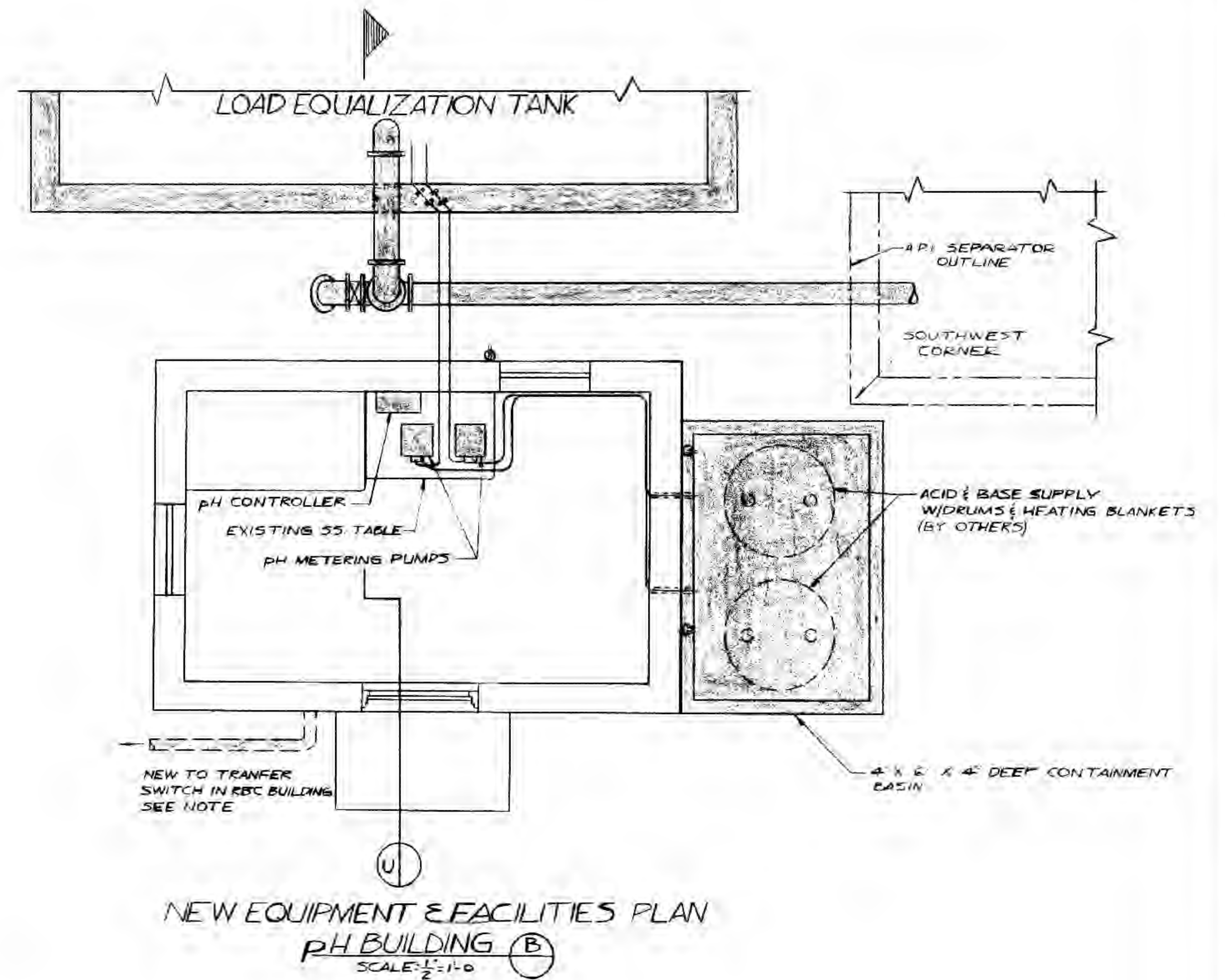
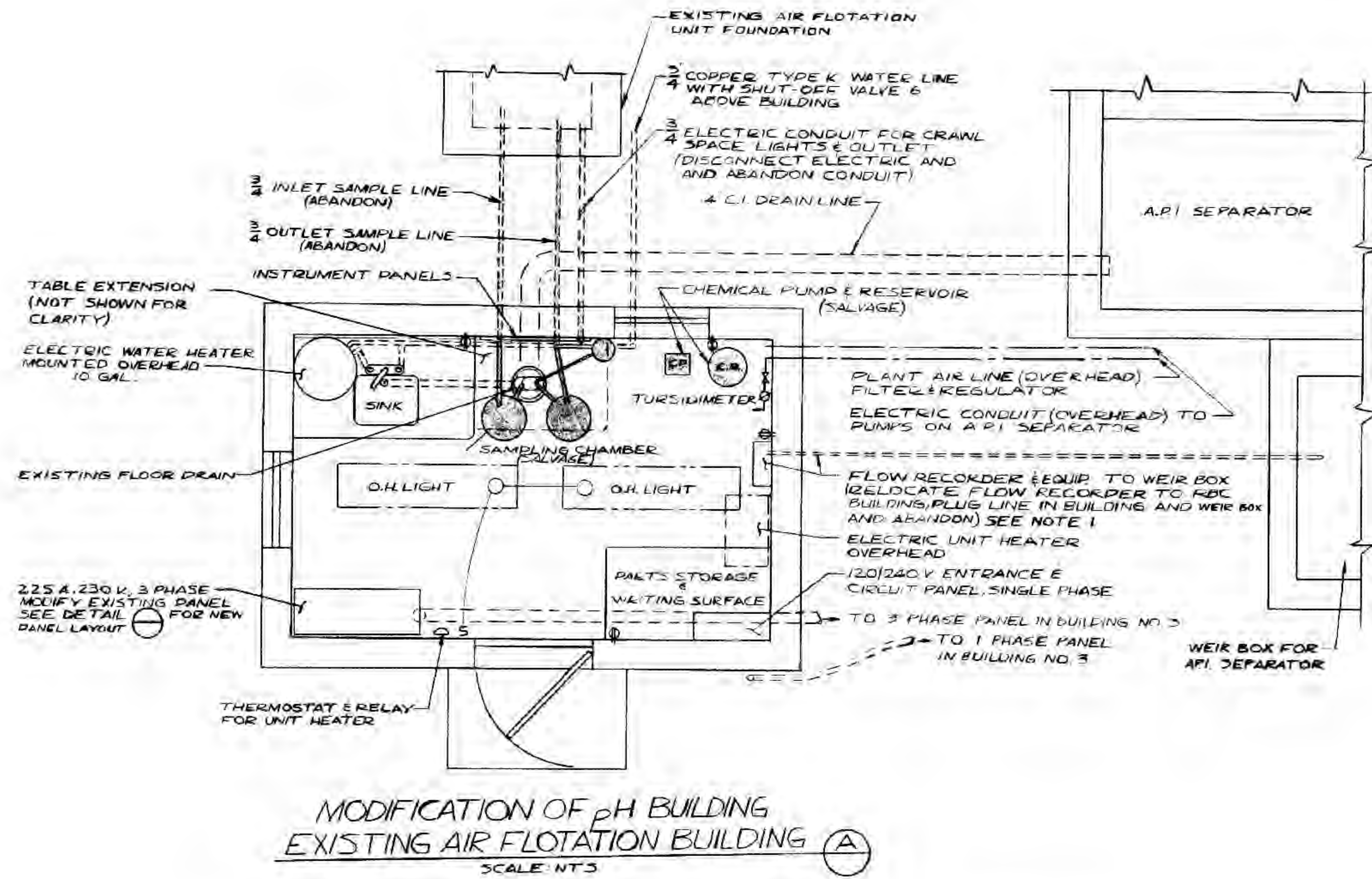
BASIS FOR ADDITIONAL LABORATORY WASTEWATER TREATMENT PLANT DESIGN

A. FLOW	
1. Average flow through plant	1.181 MGD, 93.5 GPM
2. Maximum anticipated flow through plant	2.290 MGD, 203.5 GPM
B. LOAD EQUALIZATION TANK - 25' X 15' X 7'-6"	
1. Volume at maximum water level	2250 CF 16,830 Gal.
2. Exposed liquid surface area	375 SF
3. Freeboard	1.5 Ft.
4. Aeration	20-35 SCFM
C. ROTATING BIOLOGICAL CONTACTOR	
1. Media surface area, 3 stage	41,500 SF
2. Supplemental nutrient feed	alcohol as required
3. Diameter of Disc	10.2 M 10.5' as req.
4. Freeboard	1.83 Ft.
D. CLARIFIER (4 HOPPERS)	
1. Retention	2.48 Hr.
2. Volume	1,860 CF 13,913 Gal.
3. Exposed liquid surface area	400 SF
4. Gal. settled/sq. ft./day	317 gal./sq.ft./day
5. Linear feet of overflow weir	40'
6. Gal. per linear foot of weir/day	3,375 gal.
7. Freeboard	1'-0"
E. SLUDGE SETTLING TANK	
1. Volume	2,000 CF 14,960 Gal.

New York State Department of Environmental Conservation
 Division of Environmental Planning
 By direction of the Commissioner, the plans are hereby approved pursuant to the Environmental Conservation Law. See first sheet for date and signature.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS PLAN IS A VIOLATION OF SECTION 7209(2) OF THE NEW YORK STATE EDUCATION LAW.

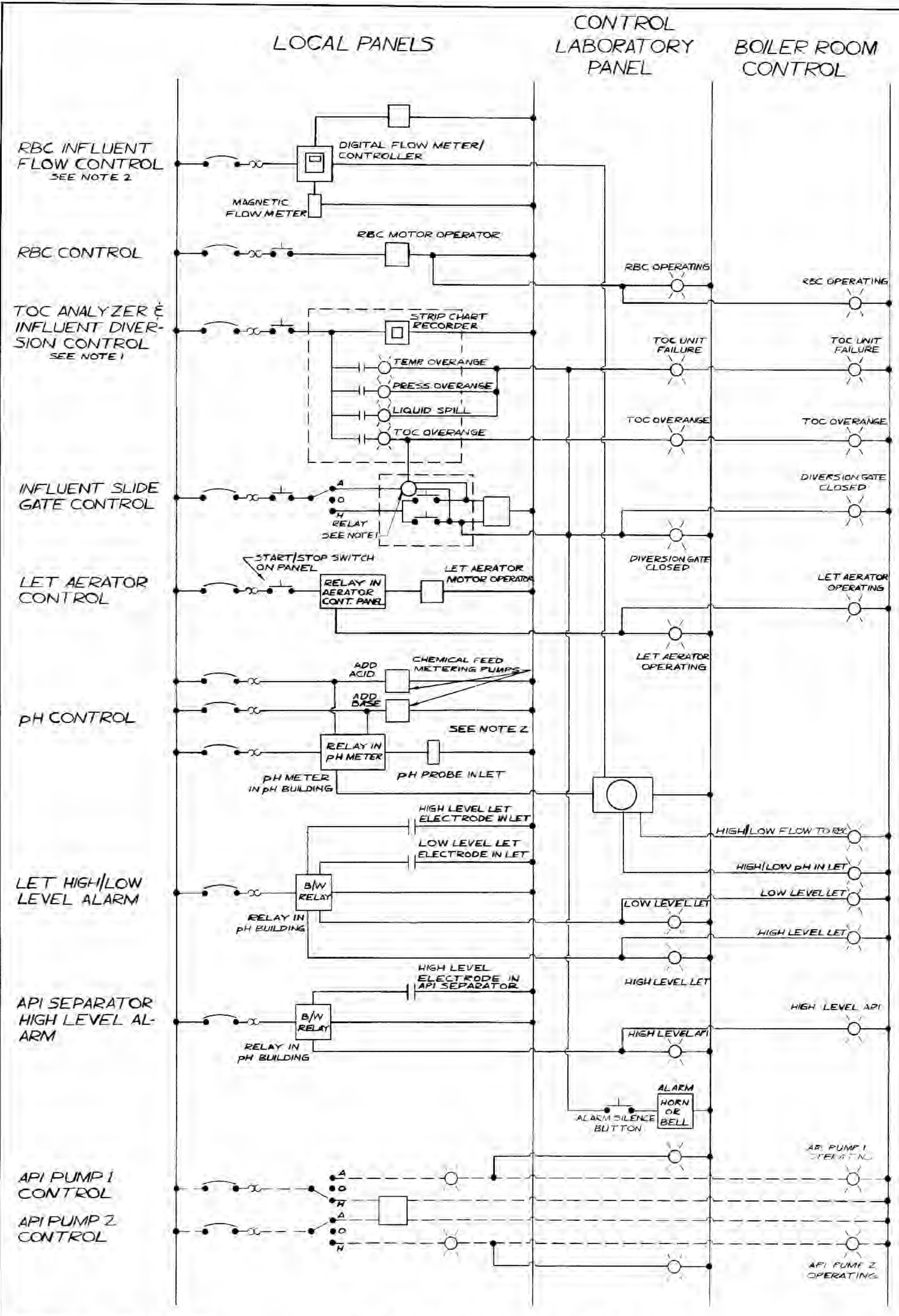
	ADDITIONAL TREATMENT FACILITIES FOR THE LABORATORY WASTE WATER SYSTEM TEXACO RESEARCH CENTER TOWN OF FISHKILL DUTCHESS COUNTY, N.Y. SPDES NO. 005784 (DISCHARGE # 010)	KARTIGANER ASSOCIATES, P.C. CONSULTING ENGINEERS 555 ROUTE 94 NEWBURGH NEW YORK 12550
	DRAWN: CEL SCALE: N.T.S. CHECKED: STK DATE: 14 AUG 1984	PROCESS & HYDRAULIC PROFILE



New York State Department of Environmental Conservation
 Division of Water
 Bureau of Wastewater Facilities Design
 By direction of the Commissioner these plans are hereby approved pursuant to the Environmental Conservation Law. See first sheet for date and signature.

UNAUTHORIZED ALTERATION OR ADDITION TO THIS PLAN IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.

ADDITIONAL TREATMENT FACILITIES FOR THE LABORATORY WASTE WATER SYSTEM TEXACO RESEARCH CENTER TOWN OF FISHKILL DUTCHESS COUNTY, N.Y. SPDES NO. D08784 (DISCHARGE # 010)	KARTIGANER ASSOCIATES, P.C. CONSULTING ENGINEERS 555 ROUTE 94 · NEWBURGH · NEW YORK 12550
DRAWN: CMR SCALE: AS NOTED CHECKED: SK DATE: 22 OCT 1984	pH CONTROL BUILDING DETAILS SHEET: OF: JOB NO: D83-276



CONTROL SCHEMATIC

UNAUTHORIZED ALTERATION OR ADDITION TO THIS PLAN IS A VIOLATION OF SECTION 7209 (2) OF THE NEW YORK STATE EDUCATION LAW.

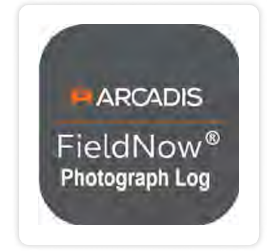
DRAWN: CR CHECKED:	ADDITIONAL TREATMENT FACILITIES FOR THE LABORATORY WASTE WATER SYSTEM TEXACO RESEARCH CENTER TOWN OF FISHKILL, DUTCHESS COUNTY, NY SPDES NO. 005784 (DISCHARGE # 010)	KARTIGANER ASSOCIATES, P.C. CONSULTING ENGINEERS 555 ROUTE 94 · NEWBURGH · NEW YORK 12550	SHEET:
	SCALE: NTS DATE: 10 OCT 84		CONTROL DETAILS OF: JOB NO: D83-276

PRELIMINARY

Appendix C

Photo Log from Arcadis Site Visit on September 22-23, 2025

FieldNow - Photograph Log - Photo Points (Tier 1)



A Photopoint-based photograph log to enable staff to take multiple photos at the same location over time.

Chevron Environmental Management Company, MOP_SS1__PMG00037_NY_Glenham_TM-30246096, 30246096, Wastewater treatment plant 81

9/22/2025, 8:34:16 PM UTC



CREATED

🕒 9/22/2025, 12:18:34 PM UTC
👤 by Tim Maire

UPDATED

🕒 9/22/2025, 8:34:16 PM UTC
👤 by Tim Maire

STATUS

🔴 In Progress

LOCATION

📍 41.517605, -73.938359

PROJECT

📁 No Project

ASSIGNED TO

👤 No Assignment

Have you read the Quality Procedure (QP) and/or Technical Guidance Instruction (TGI) relevant to this use case? | Yes

Selecting "Yes" confirms your digital signature as having read the QP and/or TGI relevant to this use case.

Select Project Number	30246096, Chevron Environmental Management Company, MOP_SS1__PMG00037_NY_Glenham_TM
Client Name	Chevron Environmental Management Company
Project Name	MOP_SS1__PMG00037_NY_Glenham_TM
Project Number	30246096
Project Location/Photo Point Description	Wastewater treatment plant 81

Photographs (45 Items)

Photographs - 1. Septic Tank, Septic tank inlet flow direction left side

Photograph Number	1
Location	Septic Tank
Description	Septic tank inlet flow direction left side
Direction Photo Taken	East

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Septic tank inlet flow direction left side. Inlet 10"

Photo Taken By | Tim Maire

Photographs - 2. Septic Tank, Septic tank inlet flow direction right side. Inlet pipe 10"

Photograph Number	2
Location	Septic Tank
Description	Septic tank inlet flow direction right side. Inlet pipe 10"
Direction Photo Taken	East

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption

Photo Taken By | Tim Maire

Photographs - 3. Septic tank, Inlet chambers connected with 8" pipe

Photograph Number	3
Location	Septic tank
Description	Inlet chambers connected with 8" pipe
Direction Photo Taken	North

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date	September 22, 2025
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Photo



Photo Caption	Inlet chamber 8" connecting pipe
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Photo Taken By	Tim Maire
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Photographs - 4. Septic tank, Stage 1

Photograph Number	4
Location	Septic tank
Description	Stage 1
Direction Photo Taken	West

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date	September 22, 2025
-------------	--------------------

Photo



Photo Caption	Stage 1 sludge retention wall left side
----------------------	---

Photo Taken By	Tim Maire
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Photographs - 5. Septic Tank, Stage 1

Photograph Number	5
Location	Septic Tank
Description	Stage 1

Direction Photo Taken | West

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Stage 1 Retention wall right

Photo Taken By | Tim Maire

Photographs - 6. Septic Tank , Stage 2

Photograph Number | 6

Location | Septic Tank

Description | Stage 2

Direction Photo Taken | West

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Stage 2 Sludge retention wall left

Photo Taken By | Tim Maire

Photographs - 7. Septic Tank, Stage 2

Photograph Number | 7

Location | Septic Tank

Description | Stage 2

Direction Photo Taken | West

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Stage 2 sludge retention wall right

Photo Taken By | Tim Maire

Photographs - 8. Septic Tank, Flow EQ Reservoir (with pumps)

Photograph Number | 8

Location | Septic Tank

Description | Flow EQ Reservoir (with pumps)

Direction Photo Taken | West

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Flow EQ Reservoir (with pumps) left

Photo Taken By | Tim Maire

Photographs - 9. Septic Tank, Flow EQ Reservoir (with pumps)

Photograph Number | 9

Location | Septic Tank

Description | Flow EQ Reservoir (with pumps)

Direction Photo Taken | West

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Flow EQ Reservoir (with pumps) right

Photo Taken By | Tim Maire

Photographs - 10. Septic Tank , Flow EQ Reservoir (with pumps)

Photograph Number | 10

Location | Septic Tank

Description | Flow EQ Reservoir (with pumps)

Direction Photo Taken | North

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption	Flow EQ Reservoir right side possible crack in tank/water infiltration
Photo Taken By	Tim Maire

Photographs - 11. Septic Tank, Septic tank outlet

Photograph Number	11
Location	Septic Tank
Description	Septic tank outlet
Direction Photo Taken	West

Photos Taken at this Location (2 Items)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date	September 22, 2025
Photo	



Photo Caption | Septic tank outlet left side. No pump on right side

Photo Taken By | Tim Maire

Photos Taken at this Location - 2. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption |

Photo Taken By | Tim Maire

Photographs - 12. Stage 1, Stage 1 inlet

Photograph Number	12
Location	Stage 1
Description	Stage 1 inlet
Direction Photo Taken	North

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Stage 1 inlet 4" pipe from the North

Photo Taken By | Tim Maire

Photographs - 13. Building 21, Building 21

Photograph Number	13
Location	Building 21
Description	Building 21
Direction Photo Taken	North

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date	September 22, 2025
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Photo



Photo Caption	Building 21
Photo Taken By	Tim Maire

Photographs - 14. Flow Regulation box, Flow regulation box

Photograph Number	14
Location	Flow Regulation box
Description	Flow regulation box
Direction Photo Taken	East

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption

Flow regulation box (not in use)

Photo Taken By | Tim Maire

Photographs - 15. Building 81, 3 stage rotating disc unit

Photograph Number	15
Location	Building 81
Description	3 stage rotating disc unit
Direction Photo Taken	

Photos Taken at this Location (3 Items)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Stage 1

Photo Taken By | Tim Maire

Photos Taken at this Location - 2. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Stage 2

Photo Taken By | Tim Maire

Photos Taken at this Location - 3. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Stage 3

Photo Taken By | Tim Maire

Photographs - 16. Building 81 , Inlet of rotating disc unit

Photograph Number | 16

Location | Building 81

Description | Inlet of rotating disc unit

Direction Photo Taken |

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo

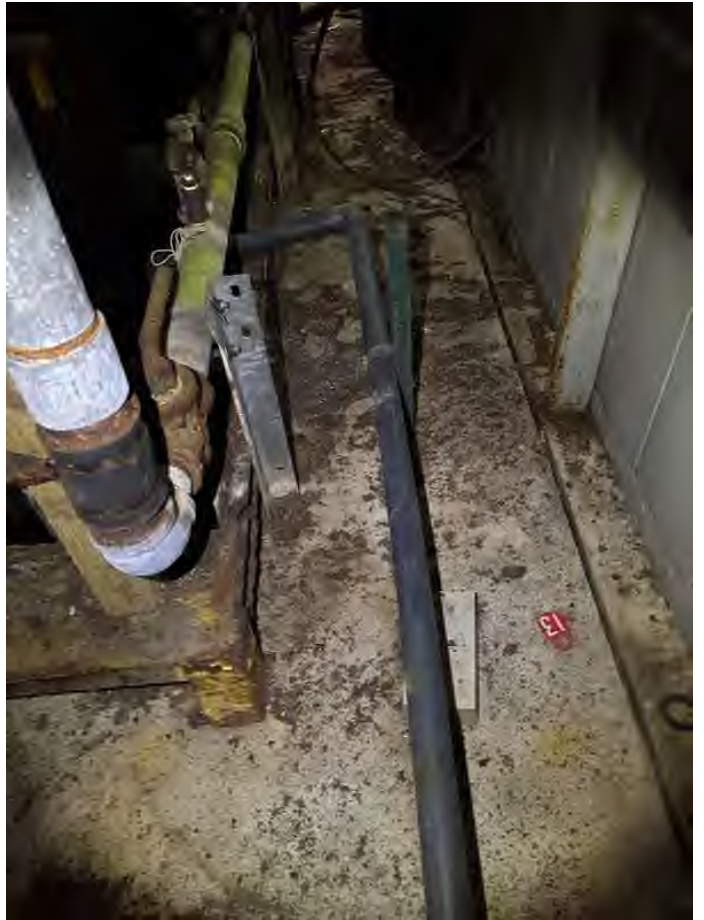


Photo Caption

Inlet of rotating disc unit (pvc 2")

Photo Taken By | Tim Maire

Photographs - 17. Building 81, Secondary clarifier inlet from rotating disc unit

Photograph Number	17
Location	Building 81
Description	Secondary clarifier inlet from rotating disc unit
Direction Photo Taken	

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Secondary clarifier inlet from rotating disc unit

Photo Taken By | Tim Maire

Photographs - 18. Building 81, Secondary Clarifier

Photograph Number	18
Location	Building 81
Description	Secondary Clarifier
Direction Photo Taken	

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Secondary Clarifier

Photo Taken By | Tim Maire

Photographs - 19. Building 81, Chlorine mixing box

Photograph Number | 19

Location | Building 81

Description | Chlorine mixing box

Direction Photo Taken |

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Chlorine mixing box

Photo Taken By | Tim Maire

Photographs - 20. 81, Stilling well/weir

Photograph Number | 20

Location | 81

Description | Stilling well/weir

Direction Photo Taken |

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Stilling well/weir

Photo Taken By | Tim Maire

Photographs - 21. Building 81, Flow splitter box

Photograph Number | 21

Location | Building 81

Description | Flow splitter box

Direction Photo Taken |

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Flow splitter box

Photo Taken By | Tim Maire

Photographs - 22. Building 81, Chlorine contact chamber

Photograph Number | 22

Location | Building 81

Description | Chlorine contact chamber

Direction Photo Taken |

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Chlorine contact chamber

Photo Taken By | Tim Maire

Photographs - 23. Building 81, Wet well

Photograph Number | 23

Location | Building 81

Description | Wet well

Direction Photo Taken |

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Wet Well

Photo Taken By | Tim Maire

Photographs - 24. Building 81 , Cascade aeration/outlet pipe 6"

Photograph Number | 24

Location | Building 81

Description | Cascade aeration/outlet pipe 6"

Direction Photo Taken |

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Cascade aeration/outlet pipe 6"

Photo Taken By | Tim Maire

Photographs - 25. Building 81, Recirculating pump from still well to rotating disc unit

Photograph Number | 25

Location | Building 81

Description | Recirculating pump from still well to rotating disc unit

Direction Photo Taken |

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption

Recirculating pump from still well to rotating disc unit

Photo Taken By | Tim Maire

Photographs - 26. Creek, Outfall 009 (sampling box) 6" steel pipe

Photograph Number	26
Location	Creek
Description	Outfall 009 (sampling box) 6" steel pipe
Direction Photo Taken	

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Outfall 009 (sampling box) 6" steel pipe

Photo Taken By | Tim Maire

Photographs - 27. Creek, Outfall 009 & 010

Photograph Number	27
Location	Creek
Description	Outfall 009 & 010
Direction Photo Taken	

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date	September 22, 2025
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Photo



Photo Caption	Outfall 009 & 010
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Photo Taken By	Tim Maire
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Photographs - 28. Creek , Outfall 010

Photograph Number	28
Location	Creek
Description	Outfall 010
Direction Photo Taken	

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date	September 22, 2025
-------------	--------------------

Photo



Photo Caption	Outfall 010
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Photo Taken By	Tim Maire
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Photographs - 29. Creek, storm water outfall 24"

Photograph Number	29
Location	Creek
Description	storm water outfall 24"

Direction Photo Taken

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Possible storm water outfall 24"

Photo Taken By | Tim Maire

Photographs - 30. Building 85 , Electrical room

Photograph Number | 30

Location | Building 85

Description | Electrical room

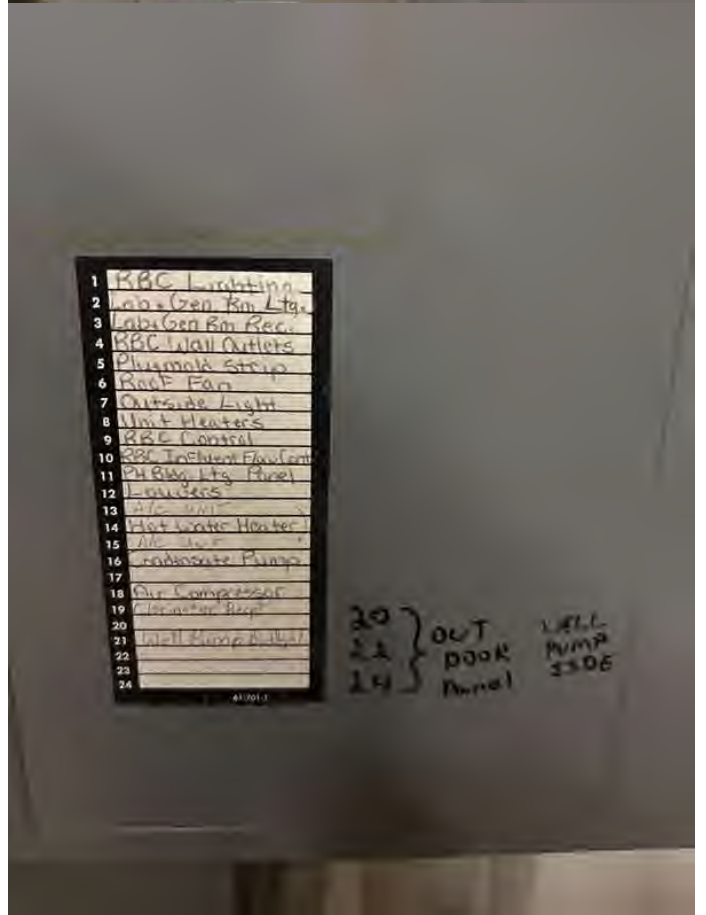
Direction Photo Taken

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



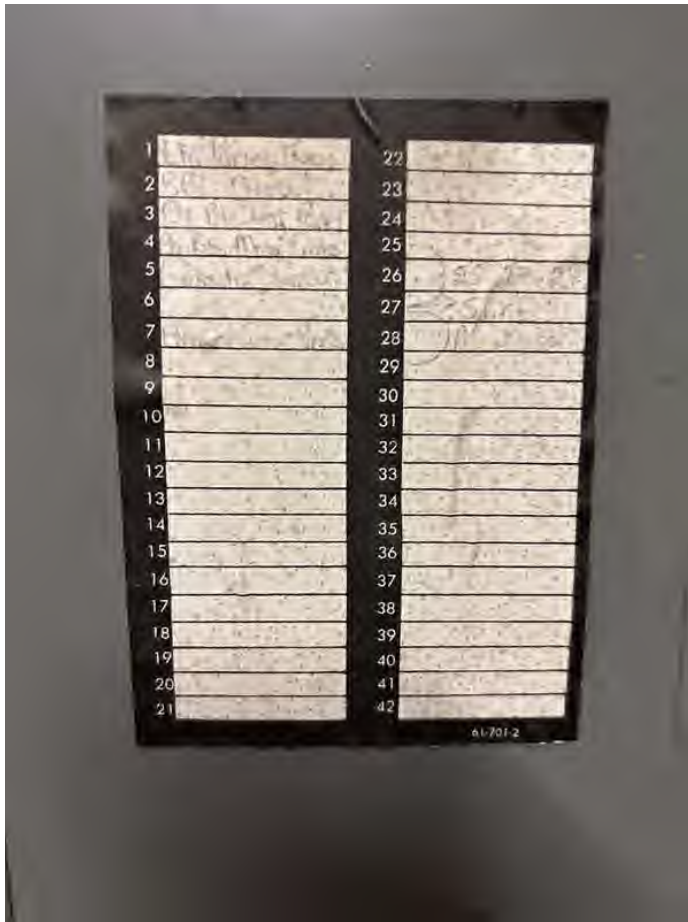


Photo Caption | Electrical room

Photo Taken By | Tim Maire

Photographs - 31. Building 81, Electrical box

Photograph Number | 31

Location | Building 81

Description | Electrical box

Direction Photo Taken |

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo

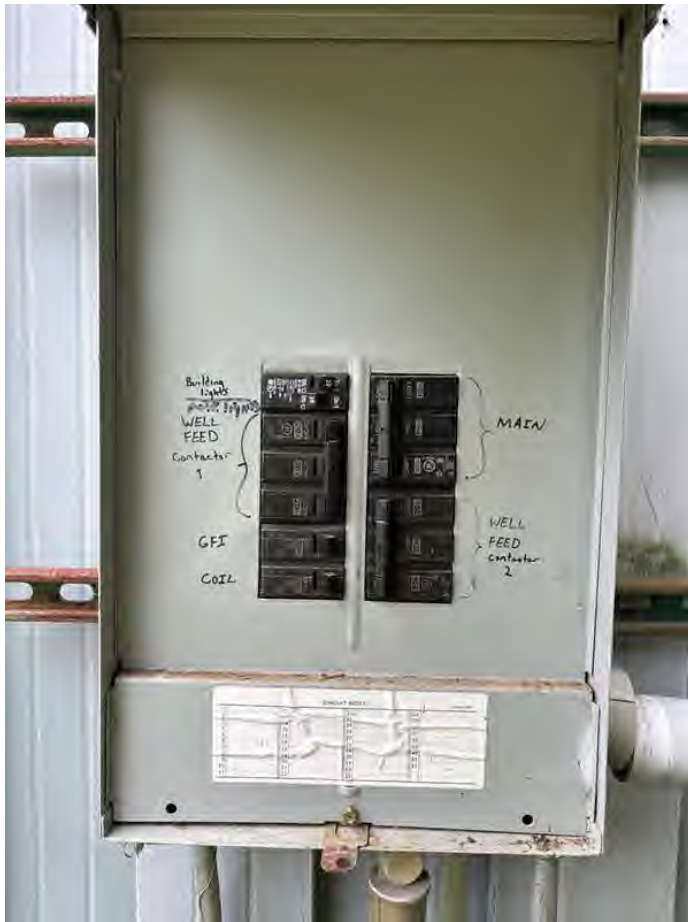


Photo Caption | Electrical box

Photo Taken By | Tim Maire

Photographs - 32. Storm water vault near creek

Photograph Number | 32

Location | Storm water vault near creek

Description |

Direction Photo Taken | Southwest

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption

Storm water vault near creek

Photo Taken By | Tim Maire

Photographs - 33. Storm water, Storm water manhole 90' from creek

Photograph Number	33
Location	Storm water
Description	Storm water manhole 90' from creek
Direction Photo Taken	

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Storm water manhole 90' from creek. 24" inlet & outlet. 8" inlet from SE

Photo Taken By | Tim Maire

Photographs - 34. Manhole near building 45, Manhole near building 45

Photograph Number	34
Location	Manhole near building 45
Description	Manhole near building 45
Direction Photo Taken	

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date	September 22, 2025
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Photo



Photo Caption	10" bricks to 10" ceramic towards NW also 6" steel from building 45
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Photo Taken By	Tim Maire
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Photographs - 35. Manhole near 81, Manhole near 81

Photograph Number	35
Location	Manhole near 81
Description	Manhole near 81
Direction Photo Taken	West

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date	September 22, 2025
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Photo



Photo Caption	Manhole near 81. 10" ceramic towards building 45. 8" pvc ontop towards ESE. 10" ceramic toward Septic tank.
----------------------	---

Photo Taken By	Tim Maire
-----------------------	-----------

Photographs - 36. Vault N corner 45, Vault N corner 45

Photograph Number	36
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Location	Vault N corner 45
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Description | Vault N corner 45

Direction Photo Taken | West

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption

Vault N corner 45. 12" towards SE. 10" towards North. 12 to 14" towards river

Photo Taken By | Tim Maire

Photographs - 37. Storm drain near 45, Storm drain near 45

Photograph Number	37
Location	Storm drain near 45
Description	Storm drain near 45
Direction Photo Taken	Northwest

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Storm drain near 45. 8" ceramic outlet towards NW. 2" pvc inlet

Photo Taken By | Tim Maire

Photographs - 38. Square vault near building 45, Square vault near building 45

Photograph Number	38
Location	Square vault near building 45
Description	Square vault near building 45
Direction Photo Taken	Southwest

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date	September 22, 2025
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Photo



Photo Caption	Square vault near building 45. 18" inlet ceramic. 18" steel outlet towards river. Probably to outfall 007. 8" steel towards NW.
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Photo Taken By	Tim Maire
-----------------------	-----------

Photographs - 39. Square hinged vault near building 45, Square hinged vault near building 45

Photograph Number	39
Location	Square hinged vault near building 45
Description	Square hinged vault near building 45
Direction Photo Taken	East

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date	September 22, 2025
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Photo



Photo Caption	Square hinged vault near building 45. Inlet 6" pvc. Unable to see outlet. Full of water
----------------------	---

Photo Taken By	Tim Maire
-----------------------	-----------

Photographs - 40. Manhole NW of B2, Manhole NW of B2

Photograph Number	40
Location	Manhole NW of B2
Description	Manhole NW of B2
Direction Photo Taken	Northwest

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date	September 22, 2025
-------------	--------------------

Photo



Photo Caption | Manhole NW of B2. Inlet 8" steel from NE. Inlet 24" ? From E. Outlet 24" towards S towards river

Photo Taken By | Tim Maire

Photographs - 41. Manhole B2, Manhole B2 full of gravel

Photograph Number | 41
Location | Manhole B2
Description | Manhole B2 full of gravel
Direction Photo Taken | North

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Manhole B2 full of gravel

Photo Taken By | Tim Maire

Photographs - 42. Manhole S of B2, Manhole S of B2

Photograph Number | 42

Location | Manhole S of B2

Description | Manhole S of B2

Direction Photo Taken | North

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption | Manhole S of B2 unable to open

Photo Taken By | Tim Maire

Photographs - 43. Manhole SE of B2. (B5), Manhole SE of B2 (B5)

Photograph Number | 43
Location | Manhole SE of B2. (B5)
Description | Manhole SE of B2 (B5)
Direction Photo Taken | Northwest

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



Photo Caption	Manhole SE of B2. (B5) Looks like wood frames for concrete on pipes?
Photo Taken By	Tim Maire

Photographs - 44. Credit union entrance near building 39, Electrical handhold

Photograph Number	44
Location	Credit union entrance near building 39
Description	Electrical handhold
Direction Photo Taken	South

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date	September 22, 2025
-------------	--------------------

Photo



Photo Caption

Electric handhold

Photo Taken By | Tim Maire

Photographs - 45. Manhole sidewalk S of credit union, Manhole with valve

Photograph Number	45
Location	Manhole sidewalk S of credit union
Description	Manhole with valve
Direction Photo Taken	North

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 22, 2025, Tim Maire

Date | September 22, 2025

Photo



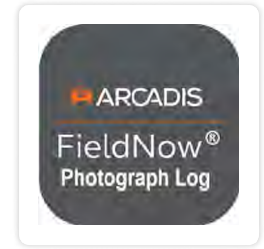
Photo Caption | Manhole with valve

Photo Taken By | Tim Maire

Have you performed work in accordance with the applicable QP/TGI?

Yes

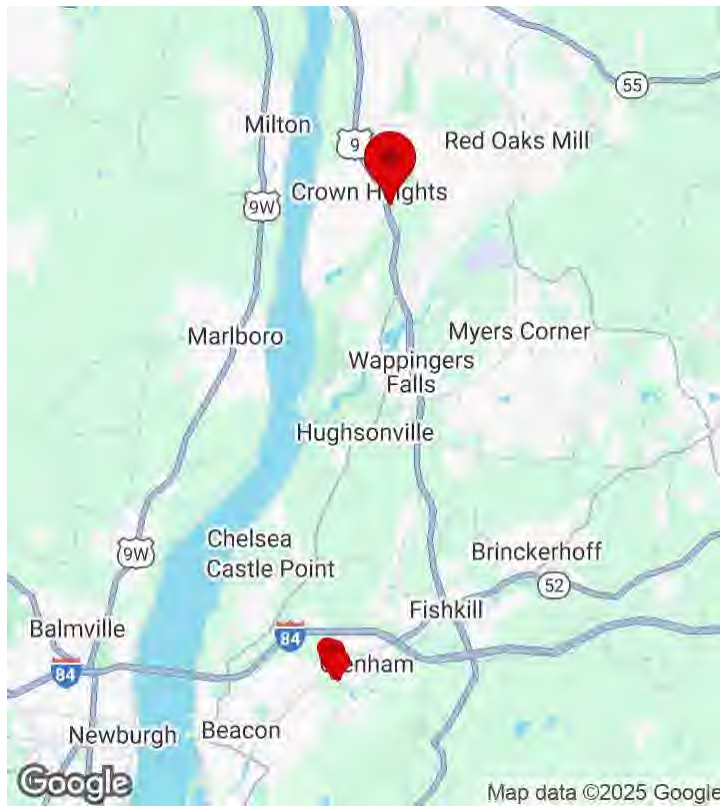
FieldNow - Photograph Log - Photo Points (Tier 1)



A Photopoint-based photograph log to enable staff to take multiple photos at the same location over time.

Chevron Environmental Management Company, MOP_SS1__PMG00037_NY_Glenham_TM-30246096, 30246096, Beacon Manholes 9-23-25

9/23/2025, 5:57:23 PM UTC



CREATED

9/23/2025, 9:42:52 AM UTC
by Tim Maire

UPDATED

9/23/2025, 5:57:23 PM UTC
by Tim Maire

STATUS

In Progress

LOCATION

41.639115, -73.918511

PROJECT

No Project

ASSIGNED TO

No Assignment

Have you read the Quality Procedure (QP) and/or Technical Guidance Instruction (TGI) relevant to this use case? | Yes

Selecting "Yes" confirms your digital signature as having read the QP and/or TGI relevant to this use case.

Select Project Number	30246096, Chevron Environmental Management Company, MOP_SS1__PMG00037_NY_Glenham_TM
Client Name	Chevron Environmental Management Company
Project Name	MOP_SS1__PMG00037_NY_Glenham_TM
Project Number	30246096
Project Location/Photo Point Description	Beacon Manholes 9-23-25

Photographs (22 Items)

Photographs - 1. Building 50, Side parking lot near credit union

Photograph Number	1
Location	Building 50
Description	Side parking lot near credit union
Direction Photo Taken	West

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date | September 23, 2025

Photo



Photo Caption | Unable to locate manhole

Photo Taken By | Tim Maire

Photographs - 2. Building 50, South of building 50

Photograph Number	2
Location	Building 50
Description	South of building 50
Direction Photo Taken	North

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date | September 23, 2025

Photo



Photo Caption | Unable to locate manhole due to vegetation

Photo Taken By | Tim Maire

Photographs - 3. Building 50, SW of building 50

Photograph Number	3
Location	Building 50
Description	SW of building 50
Direction Photo Taken	North

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date | September 23, 2025

Photo



Photo Caption | Unable to locate manhole

Photo Taken By | Tim Maire

Photographs - 4. Building 50, SW corner of building 50

Photograph Number | 4

Location | Building 50

Description | SW corner of building 50

Direction Photo Taken | North

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date | September 23, 2025

Photo



Photo Caption	Possible sanitary outlet on pad. 2, 4" pipes. Unable to access due to 4ft fence
Photo Taken By	Tim Maire

Photographs - 5. Field trailer, Sanitary 3" pvc

Photograph Number	5
Location	Field trailer
Description	Sanitary 3" pvc
Direction Photo Taken	Southwest

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date	September 23, 2025
Photo	



Photo Caption

Field trailer sanitary line cracked

Photo Taken By | Tim Maire

Photographs - 6. Building 39, Manhole filled with gravel (B4)

Photograph Number	6
Location	Building 39
Description	Manhole filled with gravel (B4)
Direction Photo Taken	

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date | September 23, 2025

Photo



Photo Caption | Manhole filled with gravel (B4)

Photo Taken By | Tim Maire

Photographs - 7. Building 39, 4" steel drain

Photograph Number	7
Location	Building 39
Description	4" steel drain
Direction Photo Taken	

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date	September 23, 2025
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Photo



Photo Caption	4" steel drain inside pad
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Photo Taken By	Tim Maire
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Photographs - 8. Building 39, 4" steel drain?

Photograph Number	8
Location	Building 39
Description	4" steel drain?
Direction Photo Taken	

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date | September 23, 2025

Photo



Photo Caption | 4" steel drain on pad. Need to break open

Photo Taken By | Tim Maire

Photographs - 9. Building 39, Possible manhole in weeds

Photograph Number | 9

Location | Building 39

Description	Possible manhole in weeds
Direction Photo Taken	North

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date	September 23, 2025
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Photo



Photo Caption	Possible manhole in weeds. Clear weeds?
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Photo Taken By	Tim Maire
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Photographs - 10. Building 65, Electrical handhold

Photograph Number	10
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Location	Building 65
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Description	Electrical handhold
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Direction Photo Taken	
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Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date	September 23, 2025
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Photo



Photo Caption | Electrical handhold

Photo Taken By | Tim Maire

Photographs - 11. Building 65, Potential location of sewer line

Photograph Number | 11

Location | Building 65

Description | Potential location of sewer line

Direction Photo Taken |

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date | September 23, 2025

Photo



Photo Caption	Potential location of sewer line
Photo Taken By	Tim Maire

Photographs - 12. Building 3 upper, 6" steel pipe

Photograph Number	12
Location	Building 3 upper
Description	6" steel pipe
Direction Photo Taken	South

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date	September 23, 2025
Photo	



Photo Caption | 6" manhole

Photo Taken By | Tim Maire

Photographs - 13. Building 3 upper , Storm drain

Photograph Number | 13

Location | Building 3 upper

Description | Storm drain

Direction Photo Taken

South

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date

September 23, 2025

Photo



Photo Caption

Photo Taken By | Tim Maire

Photographs - 14. Building 3 lower N side, Possibly sanitary

Photograph Number	14
Location	Building 3 lower N side
Description	Possibly sanitary
Direction Photo Taken	South

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date | September 23, 2025

Photo



Photo Caption | Inlet 10" ceramic from NE. Outlet 10" ceramic 45 degrees into building towards S

Photo Taken By | Tim Maire

Photographs - 15. Building 41, Outfall 003

Photograph Number	15
Location	Building 41
Description	Outfall 003
Direction Photo Taken	South

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date	September 23, 2025
Photo	



Photo Caption | Outfall 003

Photo Taken By | Tim Maire

Photographs - 16. Building 32, Pipe into creek

Photograph Number | 16

Location | Building 32

Description | Pipe into creek

Direction Photo Taken | South

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date | September 23, 2025

Photo



Photo Caption | Pipe into creek under water

Photo Taken By | Tim Maire

Photographs - 17. End of credit union rd, Storm drain

Photograph Number | 17

Location | End of credit union rd

Description | Storm drain

Direction Photo Taken

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date | September 23, 2025

Photo



Photo Caption | Storm drain. Inlet at bottom from E. Outlet W. Inlet at top from SE. 12" ceramic. Possible inlet from N at top or falling bricks

Photo Taken By | Tim Maire

Photographs - 18. End of credit union rd, Storm drain

Photograph Number | 18
Location | End of credit union rd
Description | Storm drain

Direction Photo Taken | North

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date | September 23, 2025

Photo



Photo Caption | Inlet from E. Outlet S

Photo Taken By | Tim Maire

Photographs - 19. End of credit union rd, Storm drain

Photograph Number | 19

Location | End of credit union rd

Description | Storm drain

Direction Photo Taken | North

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date | September 23, 2025

Photo

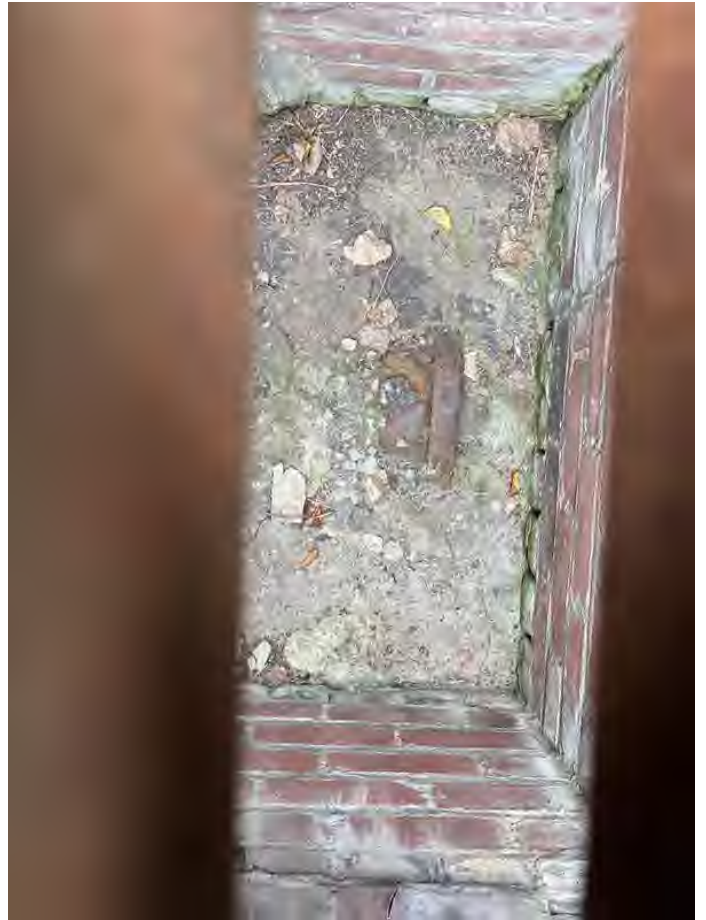


Photo Caption

Inlet grate. Outlet 12" ceramic towards SW

Photo Taken By | Tim Maire

Photographs - 20. Credit union rd, Between 70 & 30

Photograph Number | 20
Location | Credit union rd
Description | Between 70 & 30
Direction Photo Taken | West

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date | September 23, 2025

Photo



Photo Caption | Unable to locate storm drain

Photo Taken By | Tim Maire

Photographs - 21. Between building 37 & 1, Storm drain

Photograph Number | 21
Location | Between building 37 & 1
Description | Storm drain
Direction Photo Taken | South

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date | September 23, 2025

Photo



Photo Caption | Inlet bottom ceramic NE 12" outlet bottom 12" inlet top steel 6" from N. Possibly from trench drain above

Photo Taken By | Tim Maire

Photographs - 22. C2 , Filled with gravel

Photograph Number | 22

Location | C2

Description | Filled with gravel

Direction Photo Taken |

Photos Taken at this Location (1 Item)

Photos Taken at this Location - 1. September 23, 2025, Tim Maire

Date | September 23, 2025

Photo



Photo Caption | Filled with gravel

Photo Taken By | Tim Maire

Have you performed work in accordance with the applicable QP/TGI? | Yes

Appendix D

WWTP Equipment Decommissioning Summary

Unit Operation and Equipment Description	Location	Capacity	Material of Construction	Cease Operation Date	Decommissioning Activities						Notes
					Sample & Analyze Tank Content	Drain Tank / Remove Residuals	Clean / Flush Tank	De-Energize & Remove Mech. Equip.	Seal Underground Pipe Openings	Remove Aboveground Pipes and Valves	
SANITARY TREATMENT SYSTEM - OUTFALL 009											
Primary Settling:											
Underground Tanks (2) - NW and SE	East of B-21	13,000-gal ea.	Concrete	9/30/2026	X	X	X		X	X	Replace existing tank access covers with seal-tight covers.
EQ Pumps (2) - Abandoned	East of B-21		Metal	9/30/2026				X			
SE EQ Tank Effluent Pump	East of B-21			9/30/2026				X		X	Remove flex hose from submersible pump to RBC.
Rotating Biological Contactor (RBC):											
Tank	B-81	5,770-gal	Metal	9/30/2026	X	X	X			X	Remove railing and install tank cover.
Media, Bearing, and Motor	B-81	25,700-sf	Metal	9/30/2026	X	X	X	X		X	
Secondary Clarifier and Mixing Tank	B-81		Concrete, Metal	9/30/2026	X	X	X			X	Replace existing metal grate with tank cover.
Secondary Clarifier Sludge Pump - Abandoned	B-81			9/30/2026				X		X	Remove flex hose from pump.
Sodium Hypochlorite Tank and Metering Pump	B-81		Plastic	9/30/2026		X	X	X		X	
Tank - Stilling Well, Splitter Box, Chlorine Contact Chambers, Wet Well, Cascade Aeration	B-81		Concrete, Metal	9/30/2026	X	X	X	X		X	Replace existing metal grate with tank cover.
Flow Data Logger and Control Cabinet	B-85			9/30/2026				X			
INDUSTRIAL TREATMENT SYSTEM - OUTFALL 010 (ABANDONED)											
Grit Chamber	B-45		Concrete	Oct-2006	X	X	X	X			All influent pipes were sealed during 2006 ISS closure. Cap and abandon in place.
Distribution Chamber (aka Inlet Box)	B-45		Concrete	Oct-2006	X	X	X		X		Cap and abandon in place.
Oil Water Separator Tank	B-45	20,000-gal	Concrete	Oct-2006	X	X	X	X	X	X	Cap and abandon in place.
Diversion Tank	B-45	20,000-gal	Concrete	Oct-2006	X	X	X		X	X	Cap and abandon in place.
Equalization Tank (aka LET - Load Equalization Tank)	West of B-45	21,038-gal	Concrete	Oct-2006	X	X	X		X		Cap and abandon in place.
pH Control System and TOC Analyzer	B-80			Oct-2006							
Rotating Biological Contactor (RBC):											
Tank	B-85		Metal	Oct-2006	X	X	X		X	X	
Media, Bearing, and Motor	B-85	41,500-sf	Metal	Oct-2006	X	X	X	X		X	
Final Clarifier (Two Compartments, Four Hoppers)	South of B-85	13,913-gal	Concrete	Oct-2006	X	X	X	X	X	X	Cap and abandon in place.
Sludge Settling Tank	South of B-85	14,960-gal	Concrete	Oct-2006	X	X	X	X	X	X	Replace existing tank access covers with seal-tight covers.
Flow Data Logger and Control Cabinet	B-85			Oct-2006				X			
OTHER EQUIPMENT											
Former Chlorinator System - Abandoned	B-21			Abandoned	X	X		X	X	X	
Former Underground Contact Tank - Abandoned	East of B-21		Concrete, Metal	Abandoned	X	X			X		Replace existing tank access covers with seal-tight covers.
Electrical Box	B-81							X			
Electrical Panels	B-85							X			

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