



The Town of Collierville, TN

Department of Public Services

Stan Joyner, *Mayor*

Molly Mehner, *Town Administrator*

May 30, 2023

Adam Bonomo
Division of Water Resources
William R. Snodgrass Tennessee Tower, 11th Floor
312 Rosa L. Parks Avenue
Nashville, TN 37243

Re: Industrial Waste Survey 2023
NPDES Permit # TN0057461
NPDES Permit # TN0078841

Dear Adam Bonomo,

Attached is the Industrial Waste Survey for 2023.

The following are included in the survey:

- Summary of the IWS
- Table 1 Industries and Business investigated for need of a permit
- Table 2 Industrial Waste Survey Recipients
- Table 3 Industries Discharging Non-Domestic Wastewater
- A map of the sewer system for each permitted IU – Attachment A
- Cover letter for Industrial Waste Survey
- A blank copy of an Industrial Waste Discharge Survey
- A blank copy of an Industrial Discharge Permit Application
- A completed Industrial Waste Discharge Survey

If you have any questions or comments, please contact me at:
Office (901) 457-2833
Email ddavis@colliervilletn.gov

Sincerely,

Donal L. Davis
Town of Collierville
Wastewater Treatment Manager
Pretreatment Coordinator

cc: Brittany Gibson, TDEC Memphis-EFO
John Fox, Town of Collierville-Public Utilities Director
David Harrison, Town of Collierville-Assistant Director Public Utilities

Summary of Industrial Waste Survey 2023

1. Initial list of industries:

Billing for water and sewer service is under the Town of Collierville Finance Department. The department utilizes a software program that allows me to specifically choose the type of water customer I am interested in. For example, I can eliminate residential, church, education and similar customers that should not concern the Pretreatment Program. The report will state the company name, the date the meter was installed, water consumption and if the meter is for an irrigation system.

The majority of commercial and industrial businesses are concentrated in certain areas of Collierville. I travelled these areas and spoke with foreman, owners, and managers of businesses that appear to be doing industrial activity.

All business and Industrial users were scrutinized by type of activity. Restaurants, retail, and offices were excluded. Medical and Dialysis facilities were toured for compliance regarding medical wastes.

I discussed business of concern with the Assistant Director of Public Utilities, David Harrison, to gain insights on industrial hookups and activity.

2. Industries excluded:

A majority of commercial businesses could be eliminated with the use of the software program used by the Finance Department. Examples include department stores, small retail, corporate offices and distribution warehouses.

3. Industries surveyed:

ChemStation Midsouth completed a wastewater discharge survey. The facility does not manufacture chemicals. The majority of the chemicals are prepackaged in small to semi-bulk containers. Some chemicals are custom blended at the facility. No chemicals are disposed of into the collection system.

Choate's Air Conditioning, Heating, and Plumbing is a manufacturing facility where heating and air equipment is assembled. There is no metal finishing on site and no industrial discharges.

Paint Retailers including: Benjamin Moore, PPG Architectural Coatings, Lowe's and Home Depot were all toured and interviewed. All had administrative procedures to ensure that there are no chemical discharges to sewer.

CCL Industries manufactures labels for various types of containers. They were toured in 2019 and telephone interviewed in 2023. They have no chemical discharges.

Hook Point Brewing is a beer microbrewery. I gave them a copy of our sewer discharge survey to fill out and return to me. They have previously been identified for permitting. They have completed all necessary documents and sampling. A permit is currently being prepared pending completion of the 2023 Local Limits formulation.

IPS Corporation manufactures PVC plumbing parts and was toured in 2023. They only discharge non-contact cooling water.

4. Industries in need of a discharge permit:

Hook Point Brewing will be the only industry in need of a discharge permit.

5. Current industry discharge permits:

Carrier Corporation has four discharge permits. All four permits have their own permitted discharge point to the sewer. Three permits have their own pretreatment systems. The fourth is cooling tower water discharge. The first permit is for the main manufacturing plant which is considered a categorical metal finisher. The second permit is for soil TCE contamination and the pretreatment system is for condensation collection. The third permit is for TCE contamination of ground water. The permit also requires Total Chromium monitoring with a permit limit. TCE is removed by air strippers and Chromium is not removed. The fourth permit is for their cooling tower water. A portion of the water discharged by the third permit is diverted to the cooling towers. The cooling towers have local limits applied to the discharge.

Floratine Products is a custom fertilizer blending company. The company discharges batch tank rinse water. Local limits are applied to their discharge along with BOD and TSS surcharges.

5. Conclusion:

Information collected for the Industrial Waste Survey was used to conclude that Hook Point Brewery continues to be the only industry in need of a discharge permit. It is my opinion that the industries I surveyed and personally toured only discharge domestic wastewater. Composite samples have been collected in majority residential areas to gather background concentrations and also in commercial/industrial areas to identify areas that may need closer examination.

Table 1

| Company | Physical Location | Notes |
|-----------------------------------|--------------------------|--|
| Frank Road Landfill | 10636 shelton rd | Cat 445 |
| Pyramid Concret Pumping, LLC | W South St | Business Offices - exclude |
| Motamedi Glas-art | W South Rowlett St | Art - no manufacture - Excluded |
| Collierville Dental Assoc | w Poplar Ave | Cat 441 |
| Ameristeel | Progress RD | Cat 420? |
| Jeff Grimes CMC Steel Fabricators | Progress RD | Cat 438? |
| Althea Metal Fabrication, LLC | E South St | Cat 438? |
| IPS Corporation | Industrial Park Dr | Visited 5/15/23 non contact cooling water discharges only - Excluded |
| Mid-South metal Products | Eastley St | Visited 4/18/23 -no metal finishing or waste of concern |
| Hart Management Company | Washington st | Construction excluded |
| Porter Paint | w Poplar Ave | No New Paint (non manufacturer) - Excluded |
| Oak Grove Centre | New Byhalia Rd | Domestic |
| Dry Clean Super Center | Market Blvd | Chemical handling - ok |
| FedEx | w Poplar Ave | Survey |
| Home Depot USA Inc #729 | Market Blvd | visited 4/18/23 they have hazmat/chemical spill plan (SOP & training) all spills are hauled away and manifest retained |
| Jcrews/Collierville Market | w Poplar Ave | Church and school - excluded |
| Memphis Paints | w Poplar Ave | No New Paint (non manufacturer) - Excluded |
| Ivan D Harris | Poplar View In N | Dental - ok |
| Dental Implant Aesthetic | Poplar View In N | Cat 441 - ok |
| DMD MBAPLLC Kathryn A Sneed | Poplar View In N | Cat 441- ok |
| Thames Family Dentistry | Poplar View In N | Cat 441 - ok |
| Childrens Dental Center | S Houston Levee Rd | Cat 441 - ok |
| Young Dryve Cleaners | w Poplar Ave | Chemical Handling - ok |
| Lims Tailoring | w Poplar Ave | Domestic |
| Sherwin-Williams Co | w Poplar Ave | No New Paint (non manufacturer) - Excluded |
| Pepsiamericas #13210201 | Byhalia rd | Survey |
| FedEx | W US 72 Hwy | Survey |
| IPS Corporation | Distribution PKWY | Storage |
| Sealy 500 Distribution PKWY, LLC | Distribution PKWY | Storage |
| Sign Matters | Distribution PKWY | Called - No Chemical Discharges |
| 901 Pest Control | Distribution PKWY | Spoke to Richard, They do no repackaging |
| Mid South Dent Pro | HWY 72 W | Cat 441 - ok |
| The Mosquito Authority | Chaney Dr | No Repackaging - excluded |
| Cope Enterprises of Memphis DBA | Chaney Dr | Roof Maxx / storage - Survey |
| Greenkeeper Lawn Service | Commerce PKWY | No Repackaging - Excluded |
| Chem Station Mid-South | Progress RD | Survey |
| C&C Granite | S MT Pleasant Rd | Visited 4/19/2023 - acetone and chemical solution used to treat countertops - no chemical waste down drains |
| C & M Cabinets & Granite | S MT Pleasant Rd | Visited 4/19/2023 return call 4/19 - no chemical waste - excluded |

Table 1

| | | |
|-----------------------------------|-------------------------|---|
| LLC SSSP Collierville | S MT Pleasant Rd | Storage Company - excluded |
| Tri-state Guardrail & Sign Co | S MT Pleasant Rd | excluded |
| Philips Electronics aka Choates | S MT Pleasant Rd | Visited 4/19/2023 - no chemicals - sink and toilet waste only -excluded |
| Hook Point Brewing Co. | S MT Pleasant Rd | survey |
| Aeropure LLC | 166 Neely | Appliance manufacturer - excluded |
| LLC Black Knight Press | 179 S Main St | Digital Printing no liquid waste - excluded |
| Applied Labels LLC | 116 N Main St | they use machines to apply ink, no waste down drains |
| Dental Cares | 151 Main St N | Cat 441 -ok |
| Heartland Dental, LLC | 151 Main St N | Cat 441 - ok |
| Lasting Expressions Portaits | 100 W Mulberry St | Cat 459 less than 1600ft per day - excluded per rule |
| Heartland Dental, LLC | 1055 w Poplar Ave | Cat 441 - ok |
| AMVAC Chemical Corp | 1155 Halle Park Cir | Offices - excluded |
| Benevis LLC | 1108 Halle Park Cir | Cat 441 - ok |
| Ettienne R Van Zyl DDS | 1108 Halle Park Cir | Cat 441 - ok |
| Memphis Orthodontic Specialist | 2002 S Houston Levee Rd | Cat 441 - ok |
| Almadale Crossing | 2059 S Houston Levee Rd | retail - excluded |
| Mueller Streamline | 150 Schilling Blvd | Corporate Offices - excluded |
| Schilling Farm Dental | 123 Crescent Dr | Cat 441 - ok |
| Fresenius Medical Care | 155 Crescent Dr | Visited no discharges - excluded |
| The Juice Plus+ Company LLC | 140 Crescent Dr | Corporate Offices - excluded |
| TD Properties LLC | 60 Market Center Dr | retail - excluded |
| Reliance Wholesale Inc | 100 Crescent Dr | Pharma Storage - excluded |
| LLC BIC-Hchem , Helena Industries | 225 Schilling Blvd | Corporate Offices - excluded |
| GMRI Inc | 3581 S Houston Levee Rd | Restaurant - excluded |
| LLC IMA Asset Managers | 3670 S Houston Levee Rd | retail - excluded |
| Mohamed T. Ali | 2085 E Winchester BLVD | Cat 441 - ok |
| Houston Levee Market LLC | 9959 Winchester Rd | retail - excluded |
| G&I VII Retail Carriage LLC | 4600 Merchants Park Cir | retail - excluded |
| Bonanza Inc | 10210 Collierville Rd | retail - excluded |
| FedEx | 60 Bailey Station Rd | Visit |

Table 2

| Company | Physical Location | Notes |
|-----------------------------------|--------------------------|---|
| Cope Enterprises of Memphis DBA | 761 Chaney Dr | Roof Maxx/ mini storage returned survey - No discharges |
| Sealy 500 Distribution PKWY, LLC | 500 Distribution PKWY | Survey |
| Ameristeel | 155 Progress RD | Survey - No Discharges |
| Jeff Grimes CMC Steel Fabricators | 155 Progress RD | Survey - No Discharges |
| Althea Metal Fabrication, LLC | 436 E South St | Survey - No Discharges |
| Frank Road Landfill | 10636 shelton rd | Survey |
| Pepsiamericas #13210201 | 110 S Byhalia rd | Survey |
| FedEx | 920 W Poplar Ave | Survey |
| FedEx | 235 W US 72 Hwy | Survey |
| Chem Station Mid-South | 729 Progress RD | Survey - No Discharges |
| Hook Point Brewing Co. | 184 S MT Pleasant Rd | Survey - Permit Pending |
| FedEx | 60 Bailey Station Rd | Survey |

Table 3**UI's Discharging Non-Domestic Waste Streams**

| Industry | SIC Code | Flow, GPD | Pollutants | Concentration, mg/L* | Existing Pretreatment | Treatment Plant | Jurisdiction |
|-------------------------------------|-----------|----------------------|---------------|----------------------|-----------------------|---------------------------|--------------|
| Carrier Corporation Permit #TOC-001 | 3585 3499 | 8,246 | Cadmium | <0.002 | X | Northwest STP TN078841 | Collierville |
| | | | Chromium - T | <0.005 | | | |
| | | | Chromium, III | <0.010 | | | |
| | | | Chromium, VI | <0.010 | | | |
| | | | Copper | 0.009 | | | |
| | | | Lead | <0.006 | | | |
| | | | Nickel | 0.007 | | | |
| | | | Silver | <0.005 | | | |
| | | | Zinc | 0.145 | | | |
| | | | Cyanide | <0.005 | | | |
| | | | TSS | 52 | | | |
| | | | BOD | 14 | | | |
| | | | TTO | <0.040 | | | |
| Carrier Corporation Permit #TOC-002 | | 420 (2 day Total) | TCE | <0.001 | X | Northwest STP TN078841 | Collierville |
| Carrier Corporation Permit #TOC-005 | | 569,586 | TCE | 0.00116 | X | Northwest STP TN07884 | Collierville |
| | | | Chromium-T | 0.0162 | | | |

Table 3**UI's Discharging Non-Domestic Waste Streams**

| Industry | SIC Code | Flow, GPD | Pollutants | Concentration, mg/L* | Existing Pretreatment | Treatment Plant | Jurisdiction | |
|---------------------------------------|-----------------|-----------|----------------|----------------------|-----------------------|------------------------------|--------------|--|
| Carrier Corporation Permit #TOC-009 | | 8,196 | Copper | 0.12 | | Northwest STP TN078841 | Collierville | |
| | | | Chromium, III | 0.017 | | | | |
| | | | Chromium, VI | 0.011 | | | | |
| | | | Nickel | <0.005 | | | | |
| | | | Mercury | <0.0002 | | | | |
| | | | Zinc | 0.09 | | | | |
| | | | Toluene | <5.0 | | | | |
| | | | Phenols, Total | 0.035 | | | | |
| Floratine Products Permit #TOC-007 ** | 325314 NAICS | 541 | Copper | 9.21 | X | Shelton Rd. STP TN0057461 | Collierville | |
| | | | Cadmium | 0.006 | | | | |
| | | | Chromium, III | <0.050 | | | | |
| | | | Chromium, VI | <0.050 | | | | |
| | | | Nickel | 0.542 | | | | |
| | | | Lead | 0.014 | | | | |
| | | | Zinc | 66.8 | | | | |
| | | | Cyanide-T | 0.038 | | | | |
| | | | Phenols - T | 0.256 | | | | |
| | | | BOD | 743 | | | | |
| TSS | 1570 | | | | | | | |

*Most recent Semi-Annual Max Monthly Averages

** Most Recent Pretreatment Inspection Data



The Town of Collierville, TN

Department of Public Utilities

Stan Joyner, *Mayor*

Molly Mehner, *Town Administrator*

John Fox
Director of Public Utilities

Division of Public Utilities
John Fox, Director
Donal Davis, Wastewater Treatment Manager

Wastewater Pretreatment Program

Industrial Wastewater Discharge Survey

Please Complete and Return by May 12, 2023

Regarding the facility located at the
address below in Collierville, TN:

Hook Point Brewing Co.
184 S MT Pleasant Rd

INDUSTRIAL WASTEWATER DISCHARGE SURVEY

SECTION I

AUTHORITY AND FACILITY INFORMATION

Unless stated otherwise, all items are to be filled out completely. If an item is not applicable, indicate by noting "NA".

FACILITY NAME Hook Point Brewing (Production Facility)
MAILING ADDRESS 184 S. Mt. Pleasant Rd., Collierville TN 38017
PREMISES ADDRESS 184 S. Mt. Pleasant Rd., Collierville TN 38017
Michael Sadler Founder/owner
OWNER / PRESIDENT / CEO NAME TITLE

Authorized individual to contact for information pertaining to this application:

NAME Michael Sadler
TITLE Founder/owner
PHONE # 904-540-4504

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation."

MICHAEL J. SADLER PRESIDENT
PRINTED NAME OF SIGNING OFFICIAL TITLE
[Signature] 15 MAY 2023
SIGNATURE OF SIGNING OFFICIAL DATE

Section II Plant Operations

- 1) Provide a **detailed** description of manufacturing process, facilities or service activities provided on the premises, **specifically those processes which involve process wastewater or hazardous materials**. Use additional sheets if necessary:
Grain is crushed in a mill and transported by auger to the mash tun, where fresh hot water is added to the mash to activate enzymes and extract sugars. As sugars are extracted, the solution (wort) is transferred to the boil kettle and additional water is ran through the grain to pull most remaining sugar from the mash. The grain is pulled from the first vessel and sidestreamed to totes/barrels for pick up by a local farmer. After hop additions in the boil kettle, the wort is then filtered, cooled, and transferred to a fermentation tank. Yeast is added and conditions monitored for the duration of fermentation. After the process is complete, the yeast is harvested for later use and the resulting beer in the tank is filtered and transferred to a conditioning tank (brite tank) for carbonation to appropriate style and be packaged for distribution and sale. Each tank is cleaned using both manual scrubbing and Clean In Place (CIP) methods with mild dish detergent and/or nitric caustic cleaner and rinsed with clean water.

Is there a wastewater generating process that would involve confidential information? No

- 2) Principal raw materials used:
Malted barley and other grains; Hops; Yeast; Water; Honey, sugar, or other fermentable sugar sources
- 3) Chemicals and compounds used (refer to Table 1):
Caustic wash – nitric acid based
Acid Wash – nitric and acetic acid
Hydrogen Peroxide – blended from 32% solution
Peroxyacetic Acid rinse
- 4) Solvents used: N/A
- 5) Describe storage practices for the chemicals and solvents listed above:
Labeled and stored in specified area over emergency holding tanks in case of leakage. Use of gloves, eye protection, face shield or mask mandatory. All labeling 704 compliant. MSDS and emergency eye shower are located next to chemical area.

- 6) List all products manufactured or services provided by your facility along with the corresponding SIC (Standard Industrial Code) number:

| Product or Service | SIC Code |
|-------------------------------|-------------------|
| Beer, including non-alcoholic | NAICS Code 312120 |
| Soda, tea, coffee | SIC 2082 |
| | SIC 5181 |
| | SIC 3121 |

- 7) If this facility is subject to Federal Categorical Pretreatment standards, as per 40 CFR 403, what is the categorical classification(s)? N/A

What is the federal Categorical Compliance Date? N/A

- 8) Has a baseline report been submitted? No

- 9) Shift Information:

a. Shifts normally worked:

| | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|-----------------|--------|--------|---------|-----------|----------|--------|----------|
| 1 st | | X | X | X | X | X | X |
| 2 nd | | | | | | | X |
| 3 rd | | | | | | | X |

- b. Average # of employees/shift

1st 2
 2nd
 3rd

- c. Shift start and end times:

1st 8:00 am – 5:00 pm
 2nd
 3rd

- 10) Describe any routine or intermittent cleaning of equipment and facility. Include volumes of water and type of cleaning chemicals used and how the cleaning water is discharged. Include a list of any automatically metered cleaning chemicals.

Small tank cleaning typically involves roughly 10 – 15 gallons of warm or hot water and 4 – 8 ounces of caustic wash recirculated for 30 minutes. Burst rinsing (2 – 3 times) of ½ – 1 gallon of warm water to clear tank and prepare for sanitation. Between 10 – 15 gallons of cool water are added with 4 – 6 ounces of peroxyacetic acid and recirculated for 15 minutes.

Large tank cleaning is similar, with water amounts being 30 – 45 gallons and chemical amounts being 24 – 32 ounces.

Discharge of water and cleaning agents is into a holding tank where TSS/TDS and pH are measured and adjusted as needed before discharge into public utility sewer.

Table 1

PRIORITY POLLUTANTS

If you use, or dispose of, any of the items on the following two pages, mark them by the following methods:

1. (U) = ITEM IS USED AT THIS LOCATION.
2. (DT) = DISPOSED OF, WITH TREATMENT, TO THE SANITARY SEWER SYSTEM.
3. (DW) = DISPOSED OF, WITHOUT TREATMENT, TO THE SANITARY SEWER SYSTEM.
4. (DO) = DISPOSED OF, OFF-SITE, AFTER BEING USED AND/OR GENERATED, SUCH AS SLUDGE, LIQUID, ETC.
5. (TU)
IS = ITEM IS TOTALLY USED IN PRODUCTION; THEREFORE NO WASTE PRODUCT IS LEFT.
6. (VU) = ITEM IS VAPORIZED IN USE, AND THEREFORE NO WASTE PRODUCT IS LEFT.

An item may have several different markings after it, depending on the use, treatment and disposal of each by your company.

PRIORITY POLLUTANTS

VOLATILE COMPOUNDS

| | | | | | |
|-----|---------------------------|--|-----|----------------------------|--|
| 002 | ACROLEIN | | 088 | VINYL CHLORIDE | |
| 004 | BENZENE | | 003 | ACRYLONITRILE | |
| 006 | CARBON TETRACHLORIDE | | 047 | BROMOFORM | |
| 051 | CHLORODIBROMOMETHANE | | 007 | CHLOROBENZENE | |
| 019 | 2-CHLOROETHYL VINYL ETHER | | 016 | CHLOROETHANE | |
| 048 | DICHLOROBROMOMETHANE | | 023 | CHLOROFORM | |
| 010 | 1,2-DICHLOROETHANE | | 013 | 1,1-DICHLOROETHANE | |
| 032 | 1,2 DICHLOROPROPANE | | 029 | 1,1-DICHLOROETHYLENE | |
| 038 | ETHYLBENZENE | | 033 | 1,3-DICHLOROPROPYLENE | |
| 045 | METHYL CHLORIDE | | 046 | METHYL BROMIDE | |
| 015 | 1,1,2,2-TETRACHLOROETHANE | | 044 | METHYLENE CHLORIDE | |
| 086 | TOULENE | | 085 | TETRACHLOROETHYLENE | |
| 011 | 1,1,1-TRICHLOROETHANE | | 030 | 1,2-TRANS-DICHLOROETHYLENE | |
| 087 | TRICHLOROETHYLENE | | 014 | 1,1,2-TRICHLOROETHANE | |

BASE / NEUTRAL COMPOUNDS

| | | | | | |
|-----|--|---|-----|------------------------------|--|
| 001 | ACENAOHTHENE | | 077 | ACENAPHTHYLENE | |
| 078 | ANTHRACENE | | 005 | BENZIDINE | |
| 072 | BENZO (A) ANTHRACENE | | 073 | BENZO (A) PYRENE | |
| 074 | BENZO (B) FLUORANTHENE | | 079 | BENZO (GHI) PERYLENE | |
| 075 | BENZO (K) FLUORANTHENE | | 043 | BIX (2-CHLOROETHOXY) METHANE | |
| 018 | BIS (2-CHLOROETHYL) ETHER | | 042 | BIS (2-CHLOROISOPROPYL ETHER | |
| 017 | BIS (CHLOROMETHYL) ETHER | | 041 | 4-BROMOPHENYL PHENYL ETHER | |
| 066 | BIS (2-ETHYLHEXYL) PHTHALAGE | | 020 | 2-CHORONAPHTHALENE | |
| 067 | BUTYL BENZYL PHTHALATE | | 076 | CHRYSENE | |
| 025 | 1,2-DICHLOROBENZENE | | 040 | 4-CHLOROPHENYL PHENYL ETHER | |
| 082 | DIBENZO (A,H) ANTHRACENE | | 027 | 1,4-DICHLOROBENZENE | |
| 026 | 1,3-DICHLOROBENZENE | | 070 | DIETHYL PHTHALATE | |
| 028 | 3,3-DICHLOROBENZIDINE | | 068 | DI-N-BUTYL PHTHALATE | |
| 071 | DIMETHYL PHTHALATE | | 036 | 2,6-DINITROTOLUENE | |
| 035 | 2,4-DINITROTOULENE | | 081 | PHENANTHRENE | |
| 069 | DI-N-OCTYL PHTHALATE | | 009 | HEXACHLOROBENZENE | |
| 039 | FLUORANTHENE | | 053 | HEXACHLOROCYCLOPENTADIEN | |
| 080 | FLUORENE | * | 083 | INDENO (1,2,3-CD) PYRENE | |
| 052 | HEXACHLOROBUTADIENE | | 055 | NAPHTHALENE | |
| 012 | HEXACHLOROETHANE | | 061 | N-NITROSODIMETHYLAMINE | |
| 054 | ISOPHORONE | | 062 | N-NITROSODIPHENYLAMINE | |
| 056 | NITROBENZENE | | 084 | PHRENE | |
| 008 | 1,2,4-TRICHLOROBENZENE | | 063 | N-NITROSODI-N-PROPYLAMINE | |
| 037 | 1,2-DIPHENYLHYDRAZINE (AS AZOBENZENE) | | | | |

PESTICIDES AND PCB'S

| | | | | | |
|-----|--------------------|--|-----|--------------------|--|
| 089 | ALDRIN | | 104 | GAMMA-BHC | |
| 102 | ALPHA-BHC | | 105 | DELTA-BHC | |
| 103 | BETA-BHC | | 091 | CHLORDANE | |
| 092 | 4,4'-DDT | | 093 | 4,4-DDE | |
| 094 | 4,4'-DDD | | 090 | DIELDRIN | |
| 095 | ALPHA-ENDOSULFAN | | 096 | BETA-ENDOSULFAN | |
| 097 | ENDOSULFAN SULFATE | | 098 | ENDRIN | |
| 099 | ENDRIN ALDEHYDE | | 113 | TOXAPHENE | |
| 106 | PCB-1242 | | 109 | PCB-1232 | |
| 107 | PCB-1254 | | 111 | PCB-1260 | |
| 100 | HEPTACHLOR | | 101 | HEPTACHLOR EPOXIDE | |

METALS & CYANIDE

| | | | | | |
|-----|-----------|--|-----|----------|--|
| 114 | ANTIMONY | | 115 | ARSENIC | |
| 117 | BERYLLIUM | | 118 | CADMIUM | |
| 119 | CHROMIUM | | 120 | COPPER | |
| 122 | LEAD | | 123 | MERCURY | |
| 124 | NICKEL | | 125 | SELENIUM | |
| 126 | SILVER | | 127 | THALLIUM | |
| 128 | ZINC | | 121 | CYANIDE | |

ACID COMPOUNDS

| | | | | | |
|-----|-----------------------|----|-----|----------------------|--|
| 024 | CHLOROPHENOL | VU | 031 | 2,4-DICHLOROPHENOL | |
| 034 | 2,4-DIMETHYPHENOL | | 060 | 4,6-DINITRO-O-CRESOL | |
| 059 | 2,4-DINITROPHENOL | | 057 | 2-NITROPHENOL | |
| 058 | 4-NITROPHENOL | | 022 | P-CHOLRO-M-CRESOL | |
| 021 | 2,4,6-TRICHLOROPHENOL | | 065 | PHENOL | |

Chlorophenol is produced in very small amounts during fermentation, and is off gased and/or reabsorbed before process is complete.

TABLE 1 (ADDITIONAL ITEMS)

Other Pollutants

Any acids, oils, caustics, fats, grease or any other chemicals NOT LISTED on the previous two pages that you use, generate, or dispose of at this location. List these below and mark them according to the instruction page, title Table 1.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

SECTION III
Water Usage and Discharge Information

1. List **intake** water sources and volumes:

| SOURCE | VOLUME | ESTIMATED / MEASURED (Check One) |
|------------------------|-------------------------|-------------------------------------|
| Municipal Water System | 700 - 750 gallons / day | X / |
| Private Well | gallons / day | / |
| Surface Water | gallons / day | / |
| Other: | gallons / day | / |

2. List average volume of **discharge** or water:

| SOURCE | VOLUME | ESTIMATED / MEASURED (Check One) |
|------------------------|-------------------------|-------------------------------------|
| City Sewer System | 335 - 400 gallons / day | X / |
| Natural Outlet (NPDES) | gallons / day | / |
| Water Hauler | gallons / day | / |
| Evaporation | 15 gallons / day | X / |
| Contained in Product | 330 gallons / day | X / |
| Other (Specify): | gallons / day | / |

3. Break down the water **discharged** to the sewer system into the following categories:

| SOURCE | VOLUME | ESTIMATED / MEASURED (Check One) |
|--------------------------------------|-------------------------|-------------------------------------|
| Process Wastestream #1 Mash | 120 gallons / day | X / |
| Process Wastestream #2 Kettle | 100 gallons / day | X / |
| Process Wastestream #3 Cool | 100 - 200 gallons / day | X / |
| Process Wastestream #4 Gen. Cleaning | 30 gallons / day | X / |

| SOURCE | VOLUME | ESTIMATED / MEASURED (Check One) |
|---------------------------|-------------------------|-------------------------------------|
| Contact Cooling | gallons / day | / |
| Non-contact Cooling Water | 100 - 200 gallons / day | X / |
| Sanitary Water | 30 - 50 gallons / day | X / |
| Boiler Blowdown | gallons / day | / |
| Other (Describe): | gallons / day | / |

4. Describe how each process and contact cooling wastestream is generated (use additional sheets if necessary).

Process wastestreams are each discharged into a holding tank until testing for TDS/TSS and pH is complete. Wastewater is then metered as it is discharged into sewer.

5. Is the discharge to the sewer:

- a. Continuous
- b. Batch X

If batch discharge, give the frequency of occurrence:
Once per day, one – three times per week

What is the average volume in gallons of each batch?
300 gallons

What is the maximum volume in gallons of each batch?
300 gallons

What is the number of batches each?
One – three times per week

6. Important: Provide a schematic of the plant flow showing process, floor drains, sanitary, cooling stream, etc., and their point of entry into the sewer system. Indicate on the schematic where you collect effluent samples, and location of pretreatment facility.

7. Do you have automatic sampling equipment or continuous wastewater flow metering equipment currently in use or included in future plans?

- | | | | |
|------------|--------------------|------------------------------|-----------------------------|
| a. Current | Flow Metering | X Yes | <input type="checkbox"/> No |
| | Sampling Equipment | X Yes | <input type="checkbox"/> No |
| b. Planned | Flow Metering | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| | Sampling Equipment | <input type="checkbox"/> Yes | <input type="checkbox"/> No |

Section IV
Pretreatment

1. Describe any wastewater treatment equipment or process in use:
Storage of wastewater in holding tank; measuring TDS/TSS, volume, and pH prior to release to sewer system. Make adjustments as needed & test by independent lab once a month. Record results and save.

2. Describe any process control testing that is used to monitor the pretreatment equipment and process:
Testing of pH throughout brewing process

3. Describe any additional pretreatment facilities and/or process under consideration. Include a specific time schedule for completion:
N/A

4. Do you dispose of any chemicals, solvents, sludges, or hazardous materials as a result of your processes?

X Yes

No

If so, provide a description of each material, giving the composition, annual quantity, and means of disposal.

Chemicals change the pH and provide additional biological and oxygen demands. These are monitored and adjusted to a more neutral pH and the TDS/TSS reduced prior to discharge. Annual quantity is unknown at this time.

5. If a private hauler is used to haul sludges/residuals, provide name and EPA Identification Number:
Spent grain is the only item, and local farmer hauls waste for livestock or gardening.

6. Where is the ultimate disposal site for sludges/residuals?
Spent grain for livestock feed.

7. Do you have copies of manifests for waste hauled off site?

Yes No

We will keep a manifest

8. Do you have a spill prevention, control, and countermeasure plan (SPCC) for your facility?

Yes No

9. Do you have a solvent management plan for your facility?

Yes No

Section V
Wastewater Characteristic

1. Attach any sampling data pertaining to the facility discharge to the sewer system. Explain where and when the sampling was accomplished, what type of sample was taken (i.e., grab, composite), and how many were analyzed.

2. A full scan of pollutants will be required for new discharge permits unless exempted by the Town. The sample must be a 24-hour composite taken during normal production activity and/or representing typical wastewater flows.

3. Describe the exact procedure used to collect sample:

Mailing Address

Please send completed application with all supporting attachments and enclosures to:

Town of Collierville
Public Services Department
Attn: David Harrison
500 Keough Road
Collierville, TN 38017

SECTION V

WASTEWATER CHARACTERISTICS

1. Attach any sampling data pertaining to the facility discharge to the sewer system. Explain where and when the sampling was accomplished, what type of sample was taken (i.e., grab, composite), and how many were analyzed.
2. A full scan of pollutants will be required for new discharge permits unless exempted by the Town. The sample must be a 24-hour composite taken during normal production activity and/or representing typical wastewater flows.
3. Describe the exact procedure used to collect sample:

MAILING ADDRESS

Please send completed application with all supporting attachments and enclosures to:

**TOWN OF COLLIERVILLE
PUBLIC SERVICES DEPARTMENT
ATTN: DON DAVIS
500 KEOUGH ROAD
COLLIERVILLE, TN 38017**



The Town of Collierville, TN

Department of Public Utilities

Stan Joyner, *Mayor*

Molly Mehner, *Town Administrator*

John Fox
Director of Public Utilities

Division of Public Utilities

John Fox, Director

Donal Davis, Wastewater Treatment Manager

Wastewater Pretreatment Program

Industrial Wastewater Discharge Survey

Please Complete and Return by May 12, 2023

INDUSTRIAL WASTEWATER DISCHARGE SURVEY

SECTION I

AUTHORITY AND FACILITY INFORMATION

Unless stated otherwise, all items are to be filled out completely. If an item is not applicable, indicate by noting "NA".

FACILITY NAME _____

MAILING ADDRESS _____

PREMISES ADDRESS _____

OWNER / PRESIDENT / CEO NAME **TITLE**

Authorized individual to contact for information pertaining to this application:

NAME _____

TITLE _____

PHONE # _____

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violation."

- **PRINTED NAME OF SIGNING OFFICIAL** - **TITLE**

- **SIGNATURE OF SIGNING OFFICIAL** - **DATE**

SECTION II

PLANT OPERATIONS

- 1) Provide a **detailed** description of manufacturing process, facilities or service activities provided on the premises, **specifically those processes which involve process wastewater or hazardous materials**. Use additional sheets if necessary:

Is there a wastewater generating process that would involve confidential information?

- 2) Principal raw materials used:

- 3) Chemicals and compounds used (refer to Table I):

- 4) Solvents used:

- 5) Describe storage practices for the chemicals and solvents listed above:

- 6) List all products manufactured or services provided by your facility along with the corresponding SIC (Standard Industrial Code) number:

| PRODUCT OR SERVICE | SIC CODE |
|--------------------|----------|
| — | — |
| — | — |
| — | — |
| — | — |
| — | — |

- 7) If this facility is subject to Federal Categorical Pretreatment standards, as per 40 CFR 403, what is the categorical classification(s)?

What is the federal Categorical Compliance Date?

- 8) Has a baseline report been submitted? _____
- _____

- 9) Shift Information:

- a. Shifts normally worked:

| | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|-----------------|--------|--------|---------|-----------|----------|--------|----------|
| 1 st | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| 2 nd | _____ | _____ | _____ | _____ | _____ | _____ | _____ |
| 3 rd | _____ | _____ | _____ | _____ | _____ | _____ | _____ |

- b. Average # of employees/shift:

1st _____

2nd _____

3rd _____

- c. Shift start and end times:

1st _____

2nd _____

3rd _____

- 10) Describe any routine or intermittent cleaning of equipment and facility. Include volumes of water and type of cleaning chemicals used and how the cleaning water is discharged. Include a list of any automatically metered cleaning chemicals.

TABLE I
PRIORITY POLLUTANTS

If you use, or dispose of, any of the items on the following two pages, mark them by the following methods:

1. (U) = ITEM IS USED AT THIS LOCATION.
2. (DT) = DISPOSED OF, WITH TREATMENT, TO THE SANITARY SEWER SYSTEM.
3. (DW) = DISPOSED OF, WITHOUT TREATMENT, TO THE SANITARY SEWER SYSTEM.
4. (DO) = DISPOSED OF, OFF SITE, AFTER BEING USED AND/OR GENERATED, SUCH AS
SLUDGE, LIQUID, ETC.
5. (TU) = ITEM IS TOTALLY USED IN PRODUCTION; THEREFORE NO WASTE PRODUCT IS LEFT.
6. (VU) = ITEM IS VAPORIZED IN USE, AND THEREFORE NO WASTE PRODUCT IS LEFT.

An item may have several different markings after it, depending on the use, treatment and disposal of each by your company.

PRIORITY POLLUTANTS

VOLATILE COMPOUNDS

| | | | | | |
|-----|---------------------------|--|-----|----------------------------|--|
| 002 | ACROLEIN | | 088 | VINYL CHLORIDE | |
| 004 | BENZENE | | 003 | ACRYLONITRILE | |
| 006 | CARBON TETRACHLORIDE | | 047 | BROMOFORM | |
| 051 | CHLORODIBROMOMETHANE | | 007 | CHLOROBENZENE | |
| 019 | 2-CHLOROETHYL VINYL ETHER | | 016 | CHLOROETHANE | |
| 048 | DICHLOROBROMOMETHANE | | 023 | CHLOROFORM | |
| 010 | 1,2-DICHLOROETHANE | | 013 | 1,1-DICHLOROETHANE | |
| 032 | 1,2 DICHLOROPROPANE | | 029 | 1,1-DICHLOROETHYLENE | |
| 038 | ETHYLBENZENE | | 033 | 1,3-DICHLOROPROPYLENE | |
| 045 | METHYL CHLORIDE | | 046 | METHYL BROMIDE | |
| 015 | 1,1,2,2-TETRACHLOROETHANE | | 044 | METHYLENE CHLORIDE | |
| 086 | TOLUENE | | 085 | TETRACHLOROETHYLENE | |
| 011 | 1,1,1-TRICHLOROETHANE | | 030 | 1,2-TRANS-DICHLOROETHYLENE | |
| 087 | TRICHLOROETHYLENE | | 014 | 1,1,2-TRICHLOROETHANE | |

BASE/NEUTRAL COMPOUNDS

| | | | | | |
|-----|----------------------------|--|-----|-----------------------------|--|
| 001 | ACENAOHTHENE | | 077 | ACENAPHTHYLENE | |
| 078 | ANTHRACENE | | 005 | BENZIDINE | |
| 072 | BENZO(A)ANTHRACENE | | 073 | BENZO(A)PYRENE | |
| 074 | BENZO(B)FLUORANTHENE | | 079 | BENZO(GHI)PERYLENE | |
| 075 | BENZO(K)FLUORANTHENE | | 043 | BIS(2-CHLOROETHOXY)METHANE | |
| 018 | BIS(2-CHLOROETHYL)ETHER | | 042 | BIS(2-CHLOROISOPROPYL)ETHER | |
| 017 | BIS(CHLOROMETHYL)ETHER | | 041 | 4-BROMOPHENYL PHENYL ETHER | |
| 066 | BIS(2-ETHYLHEXYL)PHTHALATE | | 020 | 2-CHORONAPHTHALENE | |
| 067 | BUTYL BENZYL PHTHALATE | | 076 | CHRYSENE | |
| 025 | 1,2-DICHLOROBENZENE | | 040 | 4-CHLOROPHENYL PHENYL ETHER | |
| 082 | DIBENZO(A,H)ANTHRACENE | | 027 | 1,4-DICHLOROBENZENE | |
| 026 | 1,3-DICHLOROBENZENE | | 070 | DIETHYL PHTHALATE | |
| 028 | 3,3-DICHLOROBENZIDINE | | 068 | DI-N-BUTYL PHTHALATE | |
| 071 | DIMETHYL PHTHALATE | | 036 | 2,6-DINITROTOLUENE | |
| 035 | 2,4-DINITROTOLUENE | | 081 | PHENANTHRENE | |
| 069 | DI-N-OCTYL PHTHALATE | | 009 | HEXACHLOROBENZENE | |
| 039 | FLUORANTHENE | | 053 | HEXACHLOROCYCLOPENTADIEN | |
| 080 | FLUORENE | | 083 | INDENO(1,2,3-CD)PYRENE | |
| 052 | HEXACHLOROBUTADIENE | | 055 | NAPHTHALENE | |
| 012 | HEXACHLOROETHANE | | 061 | N-NITROSODIMETHYLAMINE | |
| 054 | ISOPHORONE | | 062 | N-NITROSODIPHENYLAMINE | |
| 056 | NITROBENZENE | | 084 | PYRENE | |

| | | | | | |
|-----|--|--|-----|---------------------------|--|
| 008 | 1,2,4-TRICHLOROBENZENE | | 063 | N-NITROSODI-N-PROPYLAMINE | |
| 037 | 1,2-DIPHENYLHYDRAZINE (AS AZOBENZENE) | | | | |

PESTICIDES AND PCB'S

| | | | | | |
|-----|--------------------|--|-----|--------------------|--|
| 089 | ALDRIN | | 104 | GAMMA-BHC | |
| 102 | ALPHA-BHC | | 105 | DELTA-BHC | |
| 103 | BETA-BHC | | 091 | CHLORDANE | |
| 092 | 4,4'-DDT | | 093 | 4,4-DDE | |
| 094 | 4,4'-DDD | | 090 | DIELDRIN | |
| 095 | ALPHA-ENDOSULFAN | | 096 | BETA-ENDOSULFAN | |
| 097 | ENDOSULFAN SULFATE | | 098 | ENDRIN | |
| 099 | ENDRIN ALDEHYDE | | 113 | TOXAPHENE | |
| 106 | PCB-1242 | | 109 | PCB-1232 | |
| 107 | PCB-1254 | | 111 | PCB-1260 | |
| 100 | HEPTACHLOR | | 101 | HEPTACHLOR EPOXIDE | |

METALS & CYANIDE

| | | | | | |
|-----|-----------|--|-----|----------|--|
| 114 | ANTIMONY | | 115 | ARSENIC | |
| 117 | BERYLLIUM | | 118 | CADMIUM | |
| 119 | CHROMIUM | | 120 | COPPER | |
| 122 | LEAD | | 123 | MERCURY | |
| 124 | NICKEL | | 125 | SELENIUM | |
| 126 | SILVER | | 127 | THALLIUM | |
| 128 | ZINC | | 121 | CYANIDE | |

ACID COMPOUNDS

| | | | | | |
|-----|-----------------------|--|-----|----------------------|--|
| 024 | CHLOROPHENOL | | 031 | 2,4-DICHLOROPHENOL | |
| 034 | 2,4-DIMETHYLPHENOL | | 060 | 4,6-DINITRO-O-CRESOL | |
| 059 | 2,4-DINITROPHENOL | | 057 | 2-NITROPHENOL | |
| 058 | 4-NITROPHENOL | | 022 | P-CHLORO-M-CRESOL | |
| 021 | 2,4,6-TRICHLOROPHENOL | | 065 | PHENOL | |

TABLE I (ADDITIONAL ITEMS)

OTHER POLLUTANTS

Any acids, oils, caustics, fats, grease or any other chemicals NOT LISTED on the previous two pages that you use, generate, or dispose of at this location. List these below and mark them according to the instruction page, title Table I.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

SECTION III

Water Usage and Discharge Information

1. List **intake** water sources and volumes:

| SOURCE | VOLUME | ESTIMATED/MEASURED (CHECK ONE) |
|------------------------|-------------------|-----------------------------------|
| Municipal Water System | _____ gallons/day | _____/____ |
| Private Well | _____ gallons/day | _____/____ |
| Surface Water | _____ gallons/day | _____/____ |
| Other | _____ gallons/day | _____/____ |

2. List average volume of **discharge** or water:

| SOURCE | VOLUME | ESTIMATED/MEASURED (CHECK ONE) |
|------------------------|-------------------|-----------------------------------|
| City Sewer System | _____ gallons/day | _____/____ |
| Natural Outlet (NPDES) | _____ gallons/day | _____/____ |
| Water Hauler | _____ gallons/day | _____/____ |
| Evaporation | _____ gallons/day | _____/____ |
| Contained in Product | _____ gallons/day | _____/____ |
| Other (Specify) | _____ gallons/day | _____/____ |

3. Break down the water **discharged** to the sewer system into the following categories:

| SOURCE | VOLUME | ESTIMATED/MEASURED (CHECK ONE) |
|------------------------|-------------------|-----------------------------------|
| Process Wastestream #1 | _____ gallons/day | _____/____ |
| Process Wastestream #2 | _____ gallons/day | _____/____ |
| Process Wastestream #3 | _____ gallons/day | _____/____ |
| Process Wastestream #4 | _____ gallons/day | _____/____ |

| SOURCE | VOLUME | ESTIMATED/MEASURED (CHECK ONE) |
|---------------------------|-------------------|-----------------------------------|
| Contact Cooling | _____ gallons/day | _____/____ |
| Non-contact Cooling Water | _____ gallons/day | _____/____ |

| | | |
|------------------|-------------------|------------|
| Sanitary Water | _____ gallons/day | _____/____ |
| Boiler Blowdown | _____ gallons/day | _____/____ |
| Other (Describe) | _____ gallons/day | _____/____ |

4. Describe how each process and contact cooling wastestream is generated (use additional sheets if necessary).

5. Is the discharge to the sewer:
- a. Continuous _____
 - b. Batch _____

If batch discharge, give the frequency of occurrence:

What is the average volume in gallons of each batch?

What is the maximum volume in gallons of each batch?

What is the number of batches each?

6. Important: Provide a schematic of the plant flow showing process, floor drains, sanitary, cooling stream, etc., and their point of entry into the sewer system. Indicate on the schematic where you collect effluent samples, and location of pretreatment facility.

7. Do you have automatic sampling equipment or continuous wastewater flow metering equipment currently in use or included in future plans?

- a. Current:
 - Flow Metering Yes No
 - Sampling Equipment Yes No
- b. Planned:
 - Flow Metering Yes No
 - Sampling Equipment Yes No

SECTION IV

PRETREATMENT

1. Describe any wastewater treatment equipment or process in use:

2. Describe any process control testing that is used to monitor the pretreatment equipment and process:

3. Describe any additional pretreatment facilities and/or process under consideration. Include a specific time schedule for completion:

4. Do you dispose of any chemicals, solvents, sludges, or hazardous materials as a result of your processes?

Yes

No

If so, provide a description of each material, giving the composition, annual quantity, and means of disposal.

5. If a private hauler is used to haul sludges/residuals, provide name and EPA Identification Number:

6. Where is the ultimate disposal site for sludges/residuals?

7. Do you have copies of manifests for waste hauled off site?

Yes No

8. Do you have a spill prevention, control, and countermeasure plan (SPCC) for your facility?

Yes No

9. Do you have a solvent management plan for your facility?

Yes No

SECTION V

WASTEWATER CHARACTERISTICS

1. Attach any sampling data pertaining to the facility discharge to the sewer system. Explain where and when the sampling was accomplished, what type of sample was taken (i.e., grab, composite), and how many were analyzed.

2. A full scan of pollutants will be required for new discharge permits unless exempted by the Town. The sample must be a 24-hour composite taken during normal production activity and/or representing typical wastewater flows.

3. Describe the exact procedure used to collect sample:

MAILING ADDRESS

Please send completed application with all supporting attachments and enclosures to:

**TOWN OF COLLIERVILLE
PUBLIC SERVICES DEPARTMENT
ATTN: DON DAVIS
500 KEOUGH ROAD
COLLIERVILLE, TN 38017**



Town of Collierville

Department of Public Services

Stan Joyner, *Mayor*

Molly Mehner, *Town Administrator*

Division of Public Utilities

John Fox, Director Public Utilities
Donal Davis, Wastewater Treatment Manager

Wastewater Pretreatment Program

INDUSTRIAL WASTEWATER DISCHARGE **PERMIT APPLICATION**

Town of Collierville, TN
Department of Public Services
Department of Public Utilities – Pretreatment Program

INDUSTRIAL WASTEWATER DISCHARGE PERMIT APPLICATION

I. GENERAL INFORMATION

1. Facility Name:

a. Operator Name:

b. Is the operator identified in 1.a., the owner of the facility?

Yes No

If no, provide the name and address of the operator and submit a copy of the contract and/or other documents indicating the operator's scope of responsibility for the facility.

2. Facility Address:

Street:

City: State: Zip:

3. Business Mailing Address:

Street or P.O. Box:

City: State: Zip:

4. Designated signatory authority of the facility:

(Attach similar information for each authorized representative)

Name:

Title:

Address:

City: State: Zip:

Phone #:

5. Designated facility contact:

Name:

Title:

Phone #:

II. FACILITY OPERATIONAL CHARACTERISTICS

1. Shift Information

Work Days
Mon. Tues. Wed. Thurs. Fri. Sat. Sun.

Shifts per work day:

Empl's 1st
per shift: 2nd
3rd

Shift start and end times: 1st
2nd
3rd

2. Indicate whether the business activity is:

Continuous through the year, or

Seasonal – “X” the months of the year during which the business activity occurs

Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec

COMMENTS:

3. Indicate whether the facility discharge is:

Continuous through the year, or

Seasonal – “X” the months of the year during which the business activity occurs

Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec

COMMENTS:

4. Does the operation shut down for vacations, maintenance, or other reasons?

Yes No

If yes, indicate reasons and period when shutdown occurs:

5. List types and amounts (mass or volume per day) or raw materials used or planned for use (Attach list if needed):

| <u>Type</u> | <u>Amount</u> |
|--------------------------|--------------------------|
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |
| <input type="checkbox"/> | <input type="checkbox"/> |

6. List types and quantities of chemicals used or planned for use (Attach list if needed). Include copies of Manufacturer’s Safety Data Sheets (if available) for all chemicals identified.

Chemical

Quantity

III. BUSINESS ACTIVITY

1. If your facility employs or will be employing processes in any of the industrial categories or business activities listed below (regardless of whether they generate wastewater, waste sludge, or hazardous wastes), place a check beside the category of business activity (check all that apply).

Industrial Categories

- | | | | |
|--------------------------|--|--------------------------|---|
| <input type="checkbox"/> | Aluminum Forming | <input type="checkbox"/> | Nonferrous Metal Forming |
| <input type="checkbox"/> | Asbestos Manufacturing | <input type="checkbox"/> | Nonferrous Metal Manufacturing |
| <input type="checkbox"/> | Battery Manufacturing | <input type="checkbox"/> | Organic Chemicals Manufacturing |
| <input type="checkbox"/> | Can Making | <input type="checkbox"/> | Paint and Ink Formulating |
| <input type="checkbox"/> | Carbon Black | <input type="checkbox"/> | Paving and Roofing Manufacturing |
| <input type="checkbox"/> | Coal Mining | <input type="checkbox"/> | Pesticides Manufacturing |
| <input type="checkbox"/> | Coil Coating | <input type="checkbox"/> | Petroleum Refining |
| <input type="checkbox"/> | Copper Forming | <input type="checkbox"/> | Pharmaceutical |
| <input type="checkbox"/> | Electric / Electronic Components Manufacturing | <input type="checkbox"/> | Plastic and Synthetic Materials Manufacturing |
| <input type="checkbox"/> | Electroplating | <input type="checkbox"/> | Plastic Processing Manufacturing |
| <input type="checkbox"/> | Feedlots | <input type="checkbox"/> | Porcelain Enamel |
| <input type="checkbox"/> | Fertilizer Manufacturing | <input type="checkbox"/> | Pulp, Paper, and Fiberboard Manufacturing |
| <input type="checkbox"/> | Foundries (Metal Molding and Casting) | <input type="checkbox"/> | Rubber |
| <input type="checkbox"/> | Glass Manufacturing | <input type="checkbox"/> | Soap and Detergent Manufacturing |
| <input type="checkbox"/> | Grain Mills | <input type="checkbox"/> | Steam Electric |
| <input type="checkbox"/> | Inorganic Chemicals | <input type="checkbox"/> | Sugar Processing |
| <input type="checkbox"/> | Iron and Steel | <input type="checkbox"/> | Textile Mills |
| <input type="checkbox"/> | Leather Tanning and Finishing | <input type="checkbox"/> | Timber Products |

[] Metal Finishing

A facility with processes inclusive in these business areas may be covered by Environmental Protection Agency's (EPA) categorical pretreatment standards. These facilities are termed "categorical users".

2. Give a brief description of all operations at this facility including primary products or services (Attach additional sheets if necessary):

[]

3. Indicate applicable Standard Industrial Classification (SIC) for all processes. If more than one applies, list in descending order of importance.

- a. []
- b. []
- c. []
- d. []
- e. []

4. PRODUCT VOLUME

| PRODUCT (Brand name) | PAST CALENDAR YEAR | | ESTIMATE THIS CALENDAR YEAR | |
|-------------------------|----------------------------------|----------------|---------------------------------|----------------|
| | Amounts per Day (Daily Units) | | Amount per Day (Daily Units) | |
| | <u>Average</u> | <u>Maximum</u> | <u>Average</u> | <u>Maximum</u> |
| | | | | |

| | | | | |
|--|--|--|--|--|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

IV. DESCRIPTION OF SEWERS AND TIE-INS TO THE CITY SYSTEM

1. Are sanitary and industrial process sewers separated?

Yes No

2. Are any roof or storm water catch basins connected to either process or sanitary sewers?

Yes No

If yes, how many:

3. Are drawings or sketches available, which show location, sizes, and elevations of sewers, both process and sanitary (storm if applicable) sewers, with respect to building and streets?

Yes No

4. Are any flow measuring devices presently installed in outfall sewers?

Yes No

V. PRETREATMENT FACILITIES:

1. Is any type of pretreatment provided for process liquid wastes before discharge to sanitary sewer, storm drain, or surface water?

Yes No

If yes, describe in detail and furnish flow diagrams noting unit processes if applicable.

2. Do you monitor your wastewater?

Yes No

If yes, describe monitoring program, include frequency and parameters monitored.

3. Is any waste sludge generated during the process operation or pretreatment?

Yes No

If yes, describe the sludge(s) and how they are disposed of. If hauled away by a commercial service, give name and address:

Volume of sludge produced:

| | | |
|------|-----------------------------|-------------|
| Max. | <u> </u> | Cu. Yds/day |
| Avg. | <u> </u> | Cu. Yds/day |
| Min. | <u> </u> | Cu. Yds/day |

Weight of sludge produced:

| | | |
|------|-----------------------------|---------|
| Max. | <u> </u> | Lbs/day |
| Avg. | <u> </u> | Lbs/day |
| Min. | <u> </u> | Lbs/day |

VI. ANTICIPATED INDUSTRIAL GROWTH

Industry:

Water Consumption:

VII. If any of the company's operating locations have any wastewater discharging to a storm drain or surface water (i.e. not going to the city sanitary sewer), indicate if a NPDES permit has been applied for or is effect.

Yes No

VIII. Please give the indicated information for substances in the following groups, if they are ever used or stored or any purpose at any of the operating locations of this company. This includes both use and storage of a substance by itself or as a constituent or ingredient in other materials. Use additional pages if needed.

- Group A: Any substance(s) listed in Table 1 (Attached). Indicate Yes or No, and if yes, make a check mark by the appropriate substance(s) on Table 1.

Yes No

- Group B: List any other substance(s) not in Table 1, which are known or thought to be (by our company) toxic, corrosive, flammable, explosive or otherwise hazardous.

IX. TREATMENT

1. Is any form of wastewater treatment (See list below) practiced at this facility?

Yes No

2. Is any form of wastewater treatment (Or changes to an existing wastewater treatment) planned for this facility within the next three years?

Yes No

3. Treatment devices or processes used or proposed for treating wastewater or sludge (Check as many as appropriate)

- Air Flotation
- Centrifuge
- Chemical Precipitation
- Chlorination
- Cyclone
- Filtration
- Flow Equalization
- Grease or Oil Separation, type:
- Grease Trap
- Grinding Filter
- Grit Removal
- Ion Exchange
- Neutralization, pH Correction
- Ozonation
- Reverse Osmosis
- Screen
- Sedimentation
- Septic tank
- Solvent Separation
- Spill Protection
- Sump
- Biological Treatment, type:
- Rainwater Diversion or Storage
- Other Chemical Treatment, type:
- Other Physical Treatment, type:
- Other, type:

X. PROCESS DESCRIPTION

1. If any of the Process Wastes in Table 2 (Attached) are generated by this company, indicate yes and make a check mark beside the waste(s) on Table 2.

Yes No

2. Describe manufacturing processes which generate wastewaters and other liquid wastes. Including liquid volume used and wasted, type of discharge (Batch or continuous), and where discharged. Use additional pages if needed.

3. Describe other water uses, which do not generate wastewater (i.e. water sold as product, indirect cooling water, etc.). Include volumes used per day and any seasonal variation.

4. List all raw materials used in the manufacturing process.

5. Do any of this company's operating locations discharge materials to the city's sanitary sewer which are known to, suspected to, or might cause clogging, blockage, deposits, build-ups or other interference with flow in and operation of the city's sewer or treatment plant?

Yes No

If yes, please describe, including the frequency of such discharge.

6. Do any of this company's operating locations now (or in the past) have any difficulties or problems with the city's sanitary sewer, such as overflows, blockage, etc?

Yes No

If yes, please describe the situation and give your ideas as to why the problems occur.

XI. SPILL PREVENTION

1. Do you have chemical storage containers, bins, or ponds at your facility?

Yes No

If yes, please give a description of their location, contents, size, type, and frequency and method of cleaning. Also indicate in a diagram or comment on the proximity of these containers to a sewer or storm drain. Indicate if buried metal containers have cathodic protection.

2. Do you have floor drains in your manufacturing or chemical storage area(s)?

Yes No

If yes, where do they discharge to?

3. If you have chemical storage containers, bins or ponds in manufacturing area, could an accidental spill lead to a discharge to: (Check all that apply).

- an onsite disposal system
 public sanitary sewer system (e.g. through a floor drain)
 storm drain
 to ground
 other, specify:
 not applicable, no possible discharge to any of the above routes

4. Do you have an accidental spill prevention plan (ASPP) to prevent spills of chemicals or slug discharges from entering the Control Authority's collection system?

- Yes- please enclose a copy with the application
 No
 N/A – not applicable since there are no floor drains and/or the facility discharge(s) only domestic waste

5. Please describe below any previous spill events and remedial measures taken to prevent their reoccurrence.

XII. LIQUID WASTE CHARACTERISTICS

Please provide as complete as possible, the following information. We are not asking at this time that flow measurement or sampling be done to provide this information, although this may be needed later on in some cases. If, in your judgment, flow measurement or sampling can be done quickly and will provide better data, then feel free to do so, if this will not cause you to miss the deadline for returning this questionnaire. To complete this section, use existing information and supplement this with estimates. When only incomplete data is available, give what is known and indicate unknown or uncertain parameters.

Water Source (average, past 12 months)

| | |
|--|---------------------------|
| City / Municipal Water Supply | <u> </u> gal/day |
| Wells | <u> </u> gal/day |
| Other Sources (describe) <u> </u> | <u> </u> gal/day |
| Total | <u> </u> gal/day |

Water Consumption

| <u>Type</u> | Average Water Usage (GPD) | Indicate Estimated (E) or Measured (M) |
|---------------------------------|------------------------------|---|
| a. Contact cooling water | <u> </u> | <u> </u> |
| b. Non-contact cooling water | <u> </u> | <u> </u> |
| c. Boiler feed | <u> </u> | <u> </u> |
| d. Process | <u> </u> | <u> </u> |
| e. Sanitary | <u> </u> | <u> </u> |
| f. Air pollution control | <u> </u> | <u> </u> |
| g. Contained in product | <u> </u> | <u> </u> |
| h. Plant and equipment washdown | <u> </u> | <u> </u> |
| i. Irrigation | <u> </u> | <u> </u> |
| j. Other | <u> </u> | <u> </u> |
| k. TOTAL OF a – j | <u> </u> | <u> </u> |

XIII. WASTEWATER PARAMETERS

List all known or anticipated pollutants (such as BOD, Suspended Solids, Metals, etc.) found in the wastewater being discharged to the city sewer system and their average concentrations.

| <u>Parameter</u> | <u>Average Concentration (mg/l)</u> |
|-------------------|-------------------------------------|
| <u> </u> | <u> </u> |
| <u> </u> | <u> </u> |
| <u> </u> | <u> </u> |
| <u> </u> | <u> </u> |
| <u> </u> | <u> </u> |
| <u> </u> | <u> </u> |
| <u> </u> | <u> </u> |
| <u> </u> | <u> </u> |
| <u> </u> | <u> </u> |
| <u> </u> | <u> </u> |
| <u> </u> | <u> </u> |
| <u> </u> | <u> </u> |
| Temperature | avg. <u> </u> |
| | max. <u> </u> |
| pH | avg. <u> </u> |
| | max. <u> </u> |
| | min <u> </u> |
| Color (NTU) | <u> </u> |

XIV. LIQUID WASTE VOLUMES AND DISPOSAL METHODS

1. To city sanitary sewer

Flow Rate: average day [redacted] gal./day
peak day [redacted] gal./day
minimum day [redacted] gal./day
30-minute peak [redacted] gal./day
Time of peak flow [redacted]
Duration of discharge [redacted] hrs./day
Source of this waste [redacted]

Seasonal variations [redacted]

2. To storm sewer

Flow Rate: average day [redacted] gal./day
Source of this waste: [redacted]

3. To surface water

Flow Rate: average day [redacted] gal./day
Source of this waste [redacted]

4. To land application

Flow Rate: average day [redacted] gal./day
Source of this waste [redacted]

5. To Waste Hauler (give information for all liquid wastes going to haulers)

Flow Rate: average day [redacted] gal./day

6. Other (describe) [redacted]

XV. NON-DISCHARGED WASTES

1. Are any waste liquids or sludges generated and not disposed of in the sanitary sewer system?

Yes, please describe below

No, skip to XVII

| <u>Waste Generated</u> | <u>Quantity (per year)</u> | <u>Disposal Method</u> |
|------------------------|----------------------------|------------------------|
| <u> </u> | <u> </u> | <u> </u> |
| <u> </u> | <u> </u> | <u> </u> |
| <u> </u> | <u> </u> | <u> </u> |
| <u> </u> | <u> </u> | <u> </u> |

2. Indicate which wastes identified above are disposed of at an off-site treatment facility and which are disposed of on-site.

3. If any of your wastes are sent to an off-site centralized waste treatment facility, identify the waste and the facility.

4. If an outside firm removes any of the above checked wastes, state the name(s) and Address(es) of all waste haulers.

a.

b.

Permit No.
(if applicable)

Permit No.
(if applicable)

5. Have you been issued any Federal, State, or local environmental permits?

Yes No

If Yes, please list the permit(s):

XVI. FOR CATEGORICAL USERS SUBJECT TO TOTAL ORGANIC (TTO) REQUIREMENTS

1. Provide the following (TTO) information.

a. Does (or will) this facility use any of the toxic organics that are listed under the TTO standard of the applicable categorical pretreatment standards published by EPA?

Yes No

b. Has a baseline monitoring report (BMR) been submitted which contains TTO information?

Yes No

c. Has a toxic organics management plan (TOMP) been developed?

Yes No

2. Do you have, or plan to have, automatic sampling equipment or continuous wastewater Flow metering equipment at this facility?

| | | | |
|------------------------|------------------------------|-----------------------------|------------------------------|
| Current: Flow Metering | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |
| Sampling Equipment | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input type="checkbox"/> |

| | | | | | | |
|------------------------|-----|--------------------------|----|--------------------------|-----|--------------------------|
| Planned: Flow Metering | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |
| Sampling Equipment | Yes | <input type="checkbox"/> | No | <input type="checkbox"/> | N/A | <input type="checkbox"/> |

If so, please indicate the present or future location of this equipment on the sewer schematic and describe the equipment.

3. Are any process changes or expansions planned during the next three years that could alter wastewater volumes or characteristics? Consider production processes as well as air or water pollution treatment processes that may affect discharge.

Yes No

Briefly describe these changes and their effects on the wastewater volume and characteristics (Attach additional sheets if needed).

XVII. AUTHORIZED SIGNATURES

Compliance certification:

1. Are all applicable Federal, State or local pretreatment standards and requirements being met on a consistent basis?

Yes No Not yet discharging

2. If No:

- a. What additional operational and maintenance procedures are being considered to bring the facility into compliance? Also, list additional treatment technology or practice being considered in order to bring the facility into compliance.
- b. Provide a schedule for bringing the facility into compliance. Specify major events planned along with reasonable completion dates. Note that if the

Control Authority issues a permit to the applicant, it may establish a schedule for compliance different from the one submitted by the facility.

Milestone Activity

Completion Date

| |
|--|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

| |
|--|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

Note to Signing Official: In accordance with Title 40 of the Code of Federal Regulations Part 403 Section 403.14, information and data provided in this questionnaire which identifies the nature and frequency of discharge shall be available to public without restriction. Requests for confidential treatment of other information shall be governed by procedures specified in 40 CFR Part 2. Should a discharge permit be required for your facility, the information in this questionnaire will be used to issue the permit.

Authorized Representative Statement

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name(s)

Title

Signature

Date

Phone

LIST OF SUBSTANCES

| | |
|--|---|
| aceneophthene | 1,2-dichloropropane |
| acrolein | 1,2-dichloropropylene (1,3-dichloropropylene) |
| acrylonitrile | 2,4-dimethylphenol |
| benzene | dinitrotoluene |
| benzidine | 2,4-dinitrotoluene |
| carbon tetrachloride | 2,6-dinitrotoluene |
| chlorinated benzenes (other than dichlorobenzenes) | 1,2-diphenylhydrazine |
| chlorobenzene | ethylbenzene |
| 1,2,4-trichlorobenzene | fluoranthene |
| Hexachlorobenzene | haloethers (other than those listed elsewhere) |
| Chlorinated ethanes (including 1,2-dichloroethane, 1,1,1-trichloroethane and hexachloroethane) | 4-chlorophenyl phenyl ester |
| 1,2-dichloroethane | 4-bromophenyl phenyl ester |
| 1,1,1-trichloroethane | bis (2 chloroisopropyl) ester |
| hexachloroethane | bis (2 chloroethoxy)methane |
| 1,1-dichloroethane | halomethanes (other than those listed elsewhere) |
| 1,1,2-trichloroethane | methylene chloride (dichloromethane) |
| 1,1,2,2-tetrachloroethane | methyl chloride (chloromethane) |
| chloroethane | methel bromide (bromomethane) |
| chloroalkyl ethers (chloromethyl, chloroethyl and mixed ethers) | bromoform (tribromomethane) |
| bis (chloromethyl) ether | dichlorobromomethane |
| bis (2 chloroethyl) ether | trichlorofluoromethane |
| 2-chloroethyl vinyl ether (mixed) | dichlorodifluoromethane |
| Chlorinated naphthalene | chlorodibromomethane |
| 2-chloronaphthalene | hexachlorobutadiene |
| Chlorinated phenols (other than those listed elsewhere; includes trichlorophenols and chlorinated cresols) | hexachlorocyclopentadiene |
| 2,4,6-trichlorophenol | isophorone |
| parachlorometa cresol | naphthalene |
| chloroform (trichloromethane) | nitrobenzene |
| 2-chlorophenol | nitrophenols (including 2,4 dinitrop and dinitrocresol) |
| dichlorobenzenes | 2-nitrophenol |
| 1,2-dichlorobennzene | 4-nitrophenol |
| 1,3-dichlorobenzene | 2,4-dinitrophenol |
| 1,4-dichlorobenzene | 4,6-dinitro-o-cresol |
| dichlorobenzidine | nitrosamines |
| 3,3-dichlorobenzidine | N-nitrosodimethylamine |
| dichloroethylenes (1,1-dichloroethylene and 1,2-dichloroethylene) | N-nirtosodiphenylamine |
| 1,1-dichloroethylene | N-nitrosodi-n-propylamine |
| 1,2-trans-dichloroethylene | pentachlorophenol |
| 2,4-dichlorophenol | phenol |
| dichloropropane and dichloropropene | Phthalate esters |
| | bis (2 ethylhexyl) phthalate |
| | butyl benzyl phthalate |
| | di-n-butyl phthalate |
| | di-n-octyl phthalate |

TABLE 1
LIST OF SUBSTANCES (CONTINUED)

| | |
|---|--|
| diethyl phthalate | PCB-1242 (Arochlor 1242) |
| dimethyl phthalate | PCB-1221 (Arochlor 1221) |
| polynuclear-aromatic hydrocarbons | PCB-1232 (Arochlor 1232) |
| benzo (a) anthracene (T,2-benzanthracene) | PCB-1248 (Arochlor 1248) |
| benzo (a) pyrene (3,4-benzopyrene) | PCB-1260 (Arochlor 1260) |
| 3,4 benzofluoranthene | PCB-1016 (Arochlor 1016) |
| benzo (k) fluoroanthene (11,12- benzofluorathene) | toxaphene |
| chrysene | antimony (total) |
| acenaphthylene | arsenic (total) |
| anthracene | asbestos (fibrous) |
| benzo (ghi) perylene (1,12-benzoperylene) | beryllium (total) |
| florene | cadmium (total) |
| phenanthrene | chromium (total) |
| dibenzo (a,h) anthracene (1,2,5,6- dibenzanthracene) | copper (total) |
| indeno (1,2,3-dc) pyrene (2,3-o- phenylenepylene) | cyanide (total) |
| Pyreno | lead (total) |
| tetrachloroethylene | mercury (total) |
| toluene | nickel (total) |
| trichloroethylene | selenium (total) |
| vinyl chloride (chloroethylene) | silver (total) |
| pesticides and metabolites | thallium (total) |
| aldrin | zinc (total) |
| dieldrin | 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) |
| chlordan (technical mixture and metabolites) | ammonia nitrogen |
| DDT and metabolites | |
| 4,4-DDT | |
| 4,4-DDE (p,p-DDX) | |
| 4,4-DDD (p,p-TDE) | |
| Endosulfan and metabolites | |
| a-endosulfan-Alpha | |
| b-endosulfan-Beta | |
| endosulfan sulfate | |
| endrin and metabolites | |
| endrin | |
| endrin aldehyde | |
| heptachlor and metabolites | |

heptachlor
hetrachlor epoxide
hexachlorocyclohexane (all isomers)
a-BHC-Alpha
b-BHC-Beta
r-BHC (lindane) Gamma
g-BHC-Delta
polychlorinated biphenols (PCB's)

TABLE 2
LIST OF WASTES

The spent halogenated solvents used in degreasing, tetrachloroethylene, methyl chloride, 1,1,1-trichloroethane, carbon tetrachloride, and the chlorinated fluorocarbons and sludges from the recovery of these solvents in degreasing operations.
The spent halogenated solvents, tetrachloroethylene, methyl chloride, trichloroethylene, 1,1,1-trichloroethane, chlorobenzene, 1,1,2-trichloro-1,2,2-trifluoroethane, o-dichlorobenzene, trichlorofluoromethane and the still bottoms from the recovery of these solvents.
The spent non-halogenated solvents, xylene, acetone, ethyl acetate, ethyl benzene, ethyl ether, n-butyl alcohol, cyclohexanone and the still bottoms from the recovery of these solvents.
The spent non-halogenated solvents, cresols and cresylic acid, nitrobenzene, and the still bottoms from the recovery of these solvents.
The spent non-halogenated solvents, methanol, toluene, methyl ethyl ketone, methyl isobutyl ketone, carbon disulfide, isobutanol, pyridine, and the still bottoms from the recovery of these solvents.
Wastewater treatment sludges from electroplating operations.
Spent plating bath solutions from electroplating operations.
Plating bath sludges from the bottom of plating baths from electroplating operations.
Spent stripping and cleaning bath solutions from electroplating operations.
Quenching bath sludge from oil baths from metal heat treating operations.
Spent solutions from salt bath pot cleaning from metal heat treating operations.
Quenching wastewater treatment sludges from metal heat treating operations.
Floating tailings from selective flotation from mineral metals recovery operations.
Cyanidation wastewater treatment tailing pond sediment from mineral metals recovery operations.
Spent cyanide bath solutions from mineral metals recovery operations.
Dewatered air pollution control scrubber sludges from coke ovens and blast furnaces.
Bottom sediment sludge from the treatment of wastewaters from wood preserving processes that use creosote and/or pentachlorophenol.

Wastewater treatment sludge from the production of chrome yellow and orange pigments.
Wastewater treatment sludge from the production of molybdate orange pigments.
Wastewater treatment sludge from the production of zinc pigments.
Wastewater treatment sludge from the production of chrome green pigments.
Wastewater treatment sludge from the production of chrome oxide green pigments (anhydrous and hydrated).
Wastewater treatment sludge from the production of iron blue pigments.
Oven residue from the production of chrome oxide green pigments.

Distillation bottoms from the production of acetaldehyde from ethylene.
Distillation side cuts from the production of acetaldehyde from ethylene.
Bottom stream from the wastewater stripper in the production of acrylonitrile.
Still bottoms from the final purification of acrylonitrile in the production of acrylonitrile.
Bottom stream from the acetonitrile column in the production of acrylonitrile.
Bottoms from the acetonitrile purification column in the production of acrylonitrile.
Still bottoms from the distillation of benzyl chloride.
Heavy ends or distillation residues from the production of carbon tetrachloride.
Heavy ends (still bottoms) from the purification column in the production of epichlorohydrin.
Heavy ends from the fractionation in ethyl chloride production.
Heavy ends from the distillation of ethyl dichloride in ethylene dichloride production.
Heavy ends from the distillation of vinyl chloride monomer production.

Aqueous spent antimony catalyst from fluoromethanes production.
Distillation bottom tars from the production of phenol/acetone from cumene.
Distillation light ends from the production of phthalic anhydride from naphthalene.
Distillation bottoms from the production of phthalic anhydride from naphthalene.
Distillation bottoms from the production of nitrobenzene by the nitration of benzene.
Stripping still tails from the production of methyl ethyl pyridines.
Centrifuge residue from the toluene diisocyanate production.
Spent catalyst from the hydrochlorinator reactor in the production of 1,1,1-trichloroethane.
Waste from the product stream stripper in the production of 1,1,1-trichloroethane.
Column bottoms or heavy ends from the combined production of trichloroethylene and perchloroethylene.

By-product salts generated in the production of MSMA and cacodylic acid.
Wastewater treatment sludge from the production of chlordane.
Wastewater and scrub water from the chlorination of cyclopentadiene in the production of chlordane.
Filter solids from the filtration of hexachlorocyclopentadiene in the production of chlordane.
Wastewater treatment sludges generated in the production of creosote.
Still bottoms from toluene reclamation distillation in the production of disulfoton.
Wastewater from the washing and stripping of phorate production.
Filter cake from the filtration of diethylphosphorodithioric acid in the production of phorate.
Wastewater treatment sludge from the production of phorate.
Wastewater treatment sludge from the production of toxaphene.
Heavy ends or distillation residues from the distillation of tetrachlorobenzene in the production of 2,4,5-T.
2,6-Dichlorophenol waste from the production of 2,4D.

TABLE 2 LIST OF WASTES (CONTINUED)

Wastewater treatment sludges from the manufacturing and processing of explosives.
Spent carbon from the treatment of wastewater containing explosives.
Wastewater treatment sludges from the manufacturing, formulation and loading of lead-based initiating compounds.
Pink/red water from TNT operations.

Dissolved air flotation (DAF) float from the petroleum refining industry.
Slop oil emulsion solids from the petroleum refining industry.
Heat exchanger bundle cleaning sludge from the petroleum refining industry.
API separator sludge from the petroleum refining industry.
Tank bottoms (leaded) from the petroleum refining industry.

Chrome (blue) trimmings generated by the following subcategories of the leather tanning industry: hair pulp/retan/wet finish, hair save/chrome tan/retan/wet finish, retan/wet finish, no beamhouse, through-the-blue, and shearing.
Chrome (blue) shavings generated by the following subcategories of the leather tanning and finishing industry: hair pulp/retan/wet finish, hair save/chrome tan/retan/wet finish, retan/wet finish, no beamhouse, through-the-blue, and shearing.
Buffing dust generated by the following subcategories of the leather tanning and finishing industry: hair pulp/retan/wet finish, hair save/chrome tan/retan/wet finish, retan/wet finish, no beamhouse, and through-the-blue.
Sewer screenings generated by the following subcategories of the leather tanning and finishing industry: hair pulp/retan/wet finish, hair save/ chrome tan/retan/wet finish, retan/wet finish, no beamhouse, through-the-blue, and shearing.
Wastewater treatment sludges generated by the following subcategories of the leather tanning and finishing industry: hair pulp/chrome tan/retan/wet finish, hair save/chrome tan/retan/wet finish, retan/ wet finish, no beamhouse, through-the-blue, and shearing.
Wastewater treatment sludges generated by the following subcategories of the leather tanning and finishing industry: hair pulp/chrome tan/retan/wet finish, hair save/chrome tan/retan/wet finish, and through-the-blue.
Wastewater treatment sludges generated by the following subcategories of the leather tanning and finishing industry: hair save/non-chrome tan/retan/wet finish.

Ammonia still lime sludge from coking operations.
Emission control dust/sludge from the electric furnace production of steel.
Spent pickle liquor from steel finishing operations.
Acid plant blowdown slurry/sludge resulting from the thickening of blowdown slurry from primary copper production.
Surface impoundment solids contained in and dredged from the surface impoundments at primary lead smelting facilities.

Sludge from treatment of process wastewater and/or acid plant blowdown from primary zinc production.
Electrolytic anode slimes/sludges from primary zinc production.
Cadmium plant leach residue (iron oxide) from primary zinc production.

Emission control dust/sludge from secondary lead smelting.

Paint residues or sludges from industrial painting in the mechanical and electrical products industry.

Wastewater treatment sludge from the industrial painting in the mechanical and electrical products industry.

Brine purification muds from the mercury cell process in chloride production, where separately prepurified brine is not used.

Chlorinated hydrocarbon waste from the purification step of diaphragm cell process using graphite anodes in chlorine production.

Wastewater treatment sludges from the production of TiO₂ pigment using chromium bearing ores by the chloride process.

Solvent cleaning wastes from the equipment and tank cleaning from paint manufacturing.

Water or caustic cleaning wastes from equipment and tank cleaning from paint manufacturing.

Wastewater treatment sludges from the paint manufacturing.

Emission control dust or sludge from paint manufacturing.

Distillation bottoms from aniline production.

Distillation or fractionating column bottoms from the production of chlorobenzenes.

Solvent washes and sludges, caustic washes and sludges, or water washes and sludges from cleaning tubs and equipment used in the formulation of ink from pigments, driers, soaps, and stabilizers containing chromium and lead.

Wastewater treatment sludges generated during the production of veterinary pharmaceuticals from arsenic or organo-arsenic compounds.

Decanter tank tar sludge from coking operations.

Spent potliners from primary aluminum reduction.

Emission control dust or sludge from ferrochromium-silicon production.

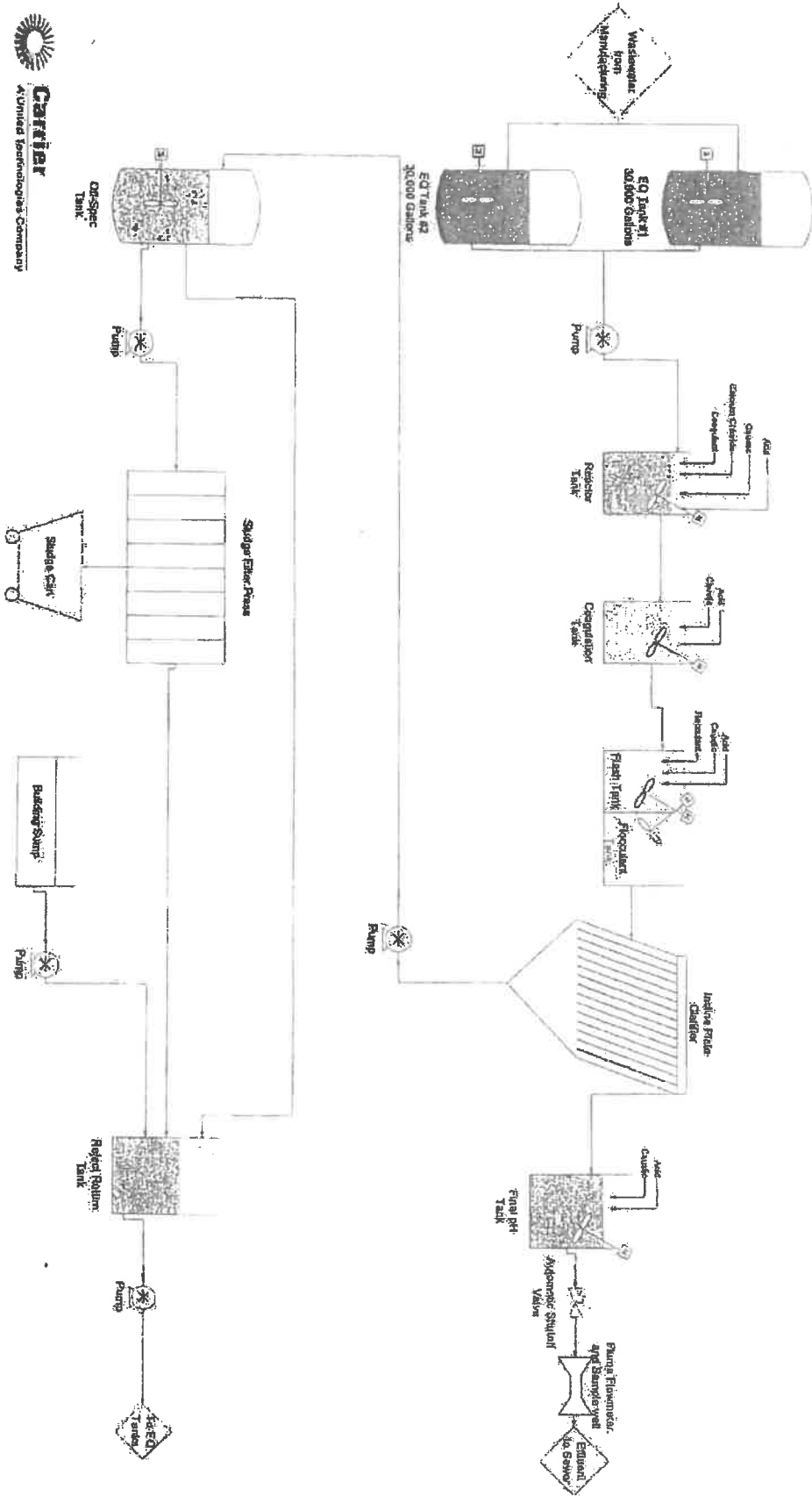
Emission control dust or sludge from ferrochromium production.

Emission control dust or sludge from ferromanganese production.

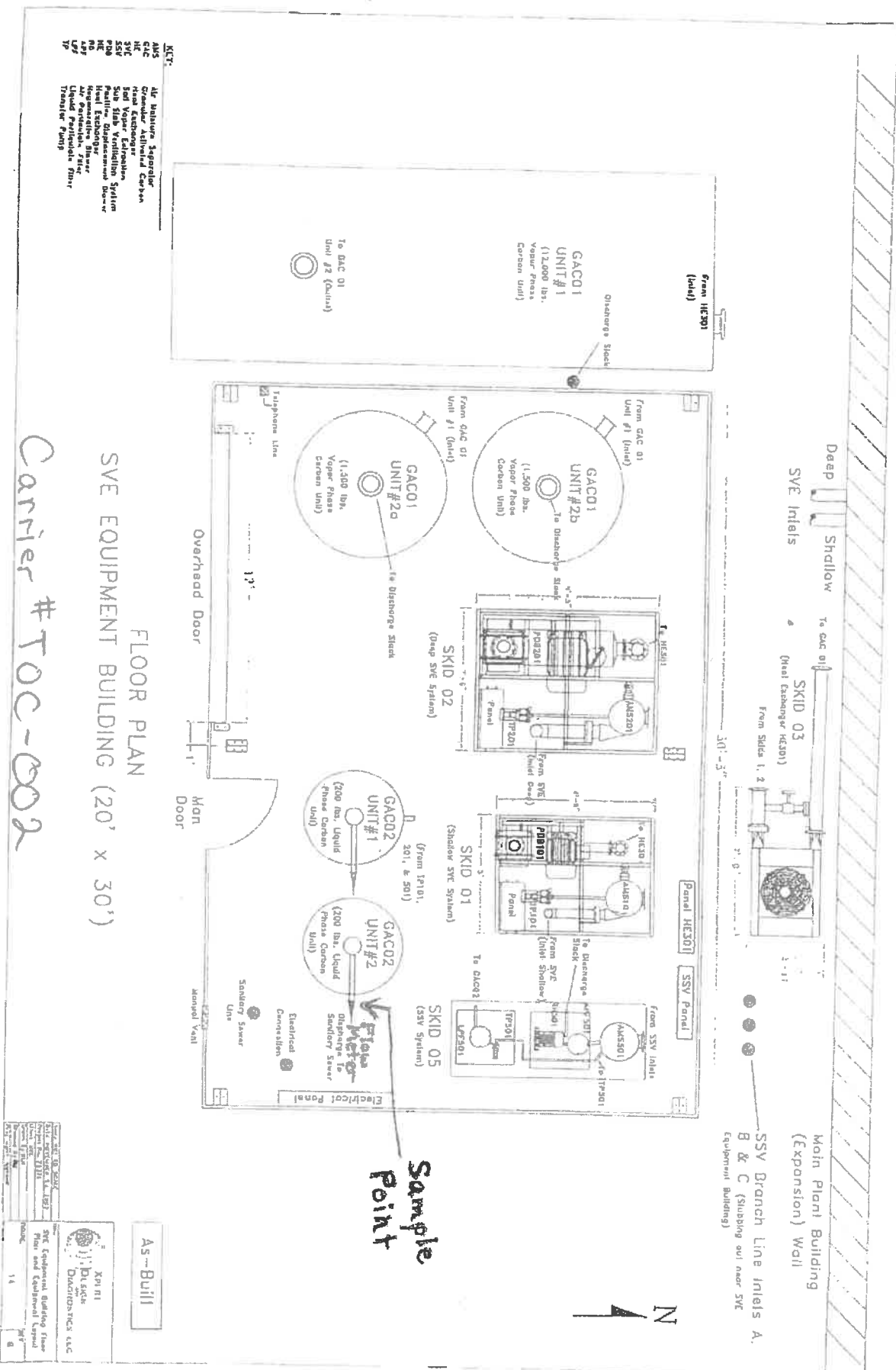
TOC-001

Carrier Corporation
Collinsville, TN

Waste Water Treatment Plant
Process Flow Diagram



ATTACHMENT A



- KCF:
 - AAC
 - AC
 - GAC
 - HC
 - HT
 - STC
 - PCB
 - HT
 - RE
 - UP
 - TP
- HT: Natural Gas/air
 AAC: Air
 AC: Air
 GAC: Gas
 HC: Hydrocarbon
 HT: Heat
 STC: Solid Vapor
 PCB: Polychlorinated Biphenyl
 HT: Heat
 RE: Recovered
 UP: Under Pressure
 TP: Transfer Pump

FLOOR PLAN
 SVE EQUIPMENT BUILDING (20' x 30')

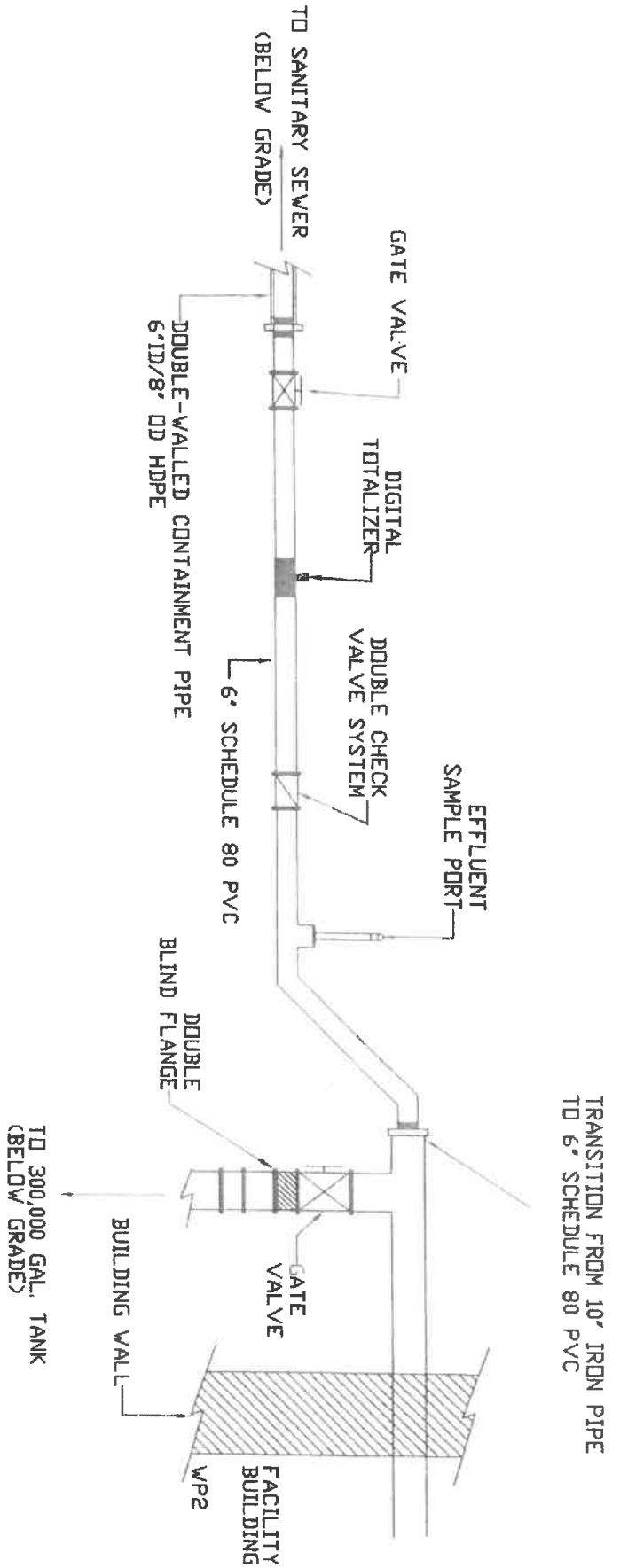
Carrier # TOC-002

Sample Point

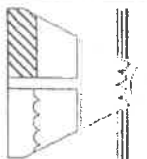
Main Plant Building
 (Expansion) Wall
 B & C (Stubbing out near SVE
 Equipment Building)

| | | |
|-----|----------|----------------|
| REV | DATE | DESCRIPTION |
| 1 | 10/20/17 | Initial Design |
| 2 | 11/13/17 | Final Design |
| 3 | 11/13/17 | Final Design |
| 4 | 11/13/17 | Final Design |
| 5 | 11/13/17 | Final Design |

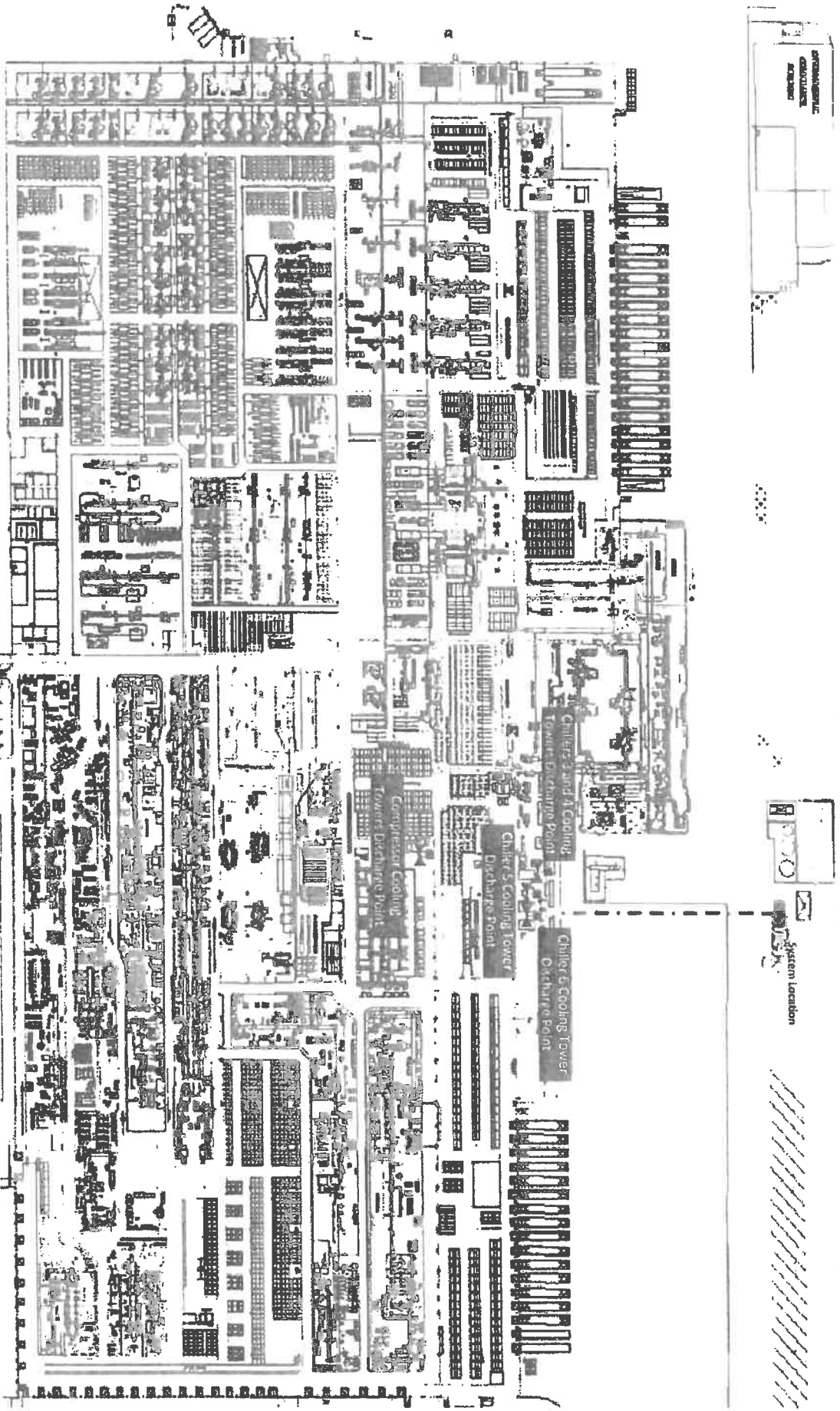
Xpirt
 Division of
 Environmental Protection
 14 8



Carrier # TOC-005

| | |
|---|---|
|  <p>SAS ENVIRONMENTAL, INC.</p> | <p>WP2 FLEXS PIPE CONNECTION SCHEMATIC</p> |
| | <p>UTC COLLIERVILLE 97 SOUTH HYALIA ROAD COLLIERVILLE, TN</p> |
| <p>PREPARED BY: JJK DATE: 01/14/15 PR</p> | <p># 031091</p> |

Facilities – Waste Water Capital Project – Plant Layout



 = TOC-009 Cooling Tower Discharge Points
 Carrier # TOC-009

ATTACHMENT A

