

# NORTH CHARLESTON SEWER DISTRICT

## INDUSTRIAL WASTEWATER

### DISCHARGE PERMIT APPLICATION

#### SECTION A - GENERAL INFORMATION

A.1. Company name, mailing address, and telephone number:

\_\_\_\_\_  
Zip Code \_\_\_\_\_ Telephone No. \_\_\_\_\_

A.2. Address of production or manufacturing facility. (If same as above, check \_\_\_\_.)

\_\_\_\_\_  
Zip Code \_\_\_\_\_ Telephone No. \_\_\_\_\_

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 the 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.

This is to be signed by an authorized official of your firm after adequate completion of this form and review of the information by the signing official.

**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 gathered and evaluated the information submitted. Based on my inquiry of the 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 fines and imprisonment for knowing violations.**

Authorized Representative:

\_\_\_\_\_  
Type or Print Name

\_\_\_\_\_  
Title

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

A.3. Chief Company Executive at this location:

Name \_\_\_\_\_ Title \_\_\_\_\_

Telephone No. \_\_\_\_\_ E-mail \_\_\_\_\_

A.4. Company representative to serve as contact person:

Name \_\_\_\_\_ Title \_\_\_\_\_

Telephone No. \_\_\_\_\_ E-mail \_\_\_\_\_

A.5. Identify the type of business conducted (auto repair, machine shop, electroplating, warehousing, painting, printing, meat packing, food processing, etc.)

\_\_\_\_\_  
\_\_\_\_\_

A.6. Provide a brief narrative description of the manufacturing, production, or service activities your firm conducts.

\_\_\_\_\_  
\_\_\_\_\_

A.7. North American Industry Classification System Number(s) [Standard Industrial Classification Number(s) (SIC Code)] for your facilities:

\_\_\_\_\_

A.8. This facility generates the following type of wastes (check all that apply):

Average Gallons Per Day

1. [ ] Domestic Wastes \_\_\_\_\_ [ ] estimated [ ] measured  
(restrooms, employee showers, etc.)

2. [ ] Boiler/Tower \_\_\_\_\_ [ ] estimated [ ] measured  
Blowdown

3. [ ] Cooling Water, \_\_\_\_\_ [ ] estimated [ ] measured  
Non-Contact

4. [ ] Cooling Water, \_\_\_\_\_ [ ] estimated [ ] measured  
Contact

5. [ ] PROCESS \_\_\_\_\_ [ ] estimated [ ] measured

6. [ ] Equipment/  
Facility Washdown \_\_\_\_\_ [ ] estimated [ ] measured

7. [ ] Air Pollution \_\_\_\_\_ [ ] estimated [ ] measured  
Control Unit

8.  Storm Water Runoff \_\_\_\_\_  estimated  measured  
to Sewer
9.  Contaminated Ground \_\_\_\_\_  estimated  measured  
Water Recovery
10.  Medical Wastewater \_\_\_\_\_  estimated  measured
11.  Other (describe) \_\_\_\_\_  estimated  measured  
\_\_\_\_\_

Total A.8.1-A.8.11 \_\_\_\_\_

A.9. Wastes are discharged to (check all that apply):

Average Gallons Per Day

- |                          |                  |       |                                    |                                   |
|--------------------------|------------------|-------|------------------------------------|-----------------------------------|
| <input type="checkbox"/> | Sanitary Sewer   | _____ | <input type="checkbox"/> estimated | <input type="checkbox"/> measured |
| <input type="checkbox"/> | Storm Sewer      | _____ | <input type="checkbox"/> estimated | <input type="checkbox"/> measured |
| <input type="checkbox"/> | Surface Water    | _____ | <input type="checkbox"/> estimated | <input type="checkbox"/> measured |
| <input type="checkbox"/> | Ground Water     | _____ | <input type="checkbox"/> estimated | <input type="checkbox"/> measured |
| <input type="checkbox"/> | Waste Haulers    | _____ | <input type="checkbox"/> estimated | <input type="checkbox"/> measured |
| <input type="checkbox"/> | Evaporation      | _____ | <input type="checkbox"/> estimated | <input type="checkbox"/> measured |
| <input type="checkbox"/> | Other (describe) | _____ | <input type="checkbox"/> estimated | <input type="checkbox"/> measured |

Provide name and address of waste hauler(s), if used.

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A. 10. Is a Spill Prevention Control and Countermeasure Plan prepared for the facility?

yes  no

Is a Slug Discharge Control Plan prepared for this facility?

yes  no

Is there a Toxic Organic Management Plan in effect for this facility?

yes  no

Is there a Pollutant Management Plan in effect for this facility?

yes  no

Is there a Best Management Practices Plan prepared for this facility?

yes  no

A.11. List any environmental control permits issued to the facility, permit number, and expiration date.

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Note:

If your facility did not check one or more of the items listed in A.8.4 through A.8.11 above, skip to page 11 and complete Section C. 6. Then skip to page 13-14 and complete C.10, D. and E.



## SECTION C - WASTEWATER CHARACTERISTICS

C.1. If your facility employs processes in any of the industrial categories listed below and any of these processes generate wastewater or waste sludge, place a check beside the category (check all that apply). 40 CFR Part is referenced by the number beside each category.

<input type="checkbox"/> Aluminum Forming	467	<input type="checkbox"/> Asbestos Manufacturing	427
<input type="checkbox"/> Battery Manufacturing	461	<input type="checkbox"/> Canned and Preserved Fruits and Vegetables	407
<input type="checkbox"/> Canned and Preserved Seafood	408	<input type="checkbox"/> Carbon Black Manufacturing	458
<input type="checkbox"/> Cement Manufacturing	411	<input type="checkbox"/> Centralized Waste Treatment (CWT)	437
<input type="checkbox"/> Coal Mining	434	<input type="checkbox"/> Coil Coating	465
<input type="checkbox"/> Concentrated Animal Feeding Operations (CAFO)			412
<input type="checkbox"/> Concentrated Aquatic Animal Production (Aquaculture)			451
<input type="checkbox"/> Copper Forming	468	<input type="checkbox"/> Dairy Products Processing	405
<input type="checkbox"/> Electric and Electronic Components			469
<input type="checkbox"/> Electroplating	413	<input type="checkbox"/> Explosives Manufacturing	457
<input type="checkbox"/> Ferroalloy Manufacturing	424	<input type="checkbox"/> Fertilizer Manufacturing	418
<input type="checkbox"/> Glass Manufacturing	426	<input type="checkbox"/> Grain Mills Manufacturing	406
<input type="checkbox"/> Gum and Wood Chemicals	454	<input type="checkbox"/> Hospitals	460
<input type="checkbox"/> Ink Formulating	447	<input type="checkbox"/> Inorganic Chemicals	415
<input type="checkbox"/> Iron and Steel Manufacturing	420	<input type="checkbox"/> Landfills	445
<input type="checkbox"/> Leather Tanning and Finishing	425	<input type="checkbox"/> Meat and Poultry Products	432
<input type="checkbox"/> Metal Finishing	433	<input type="checkbox"/> Metal Molding and Casting	464
<input type="checkbox"/> Metal Products and Machinery	438	<input type="checkbox"/> Mineral Mining and Processing	436
<input type="checkbox"/> Nonferrous Metals Forming and Metal Powders			471
<input type="checkbox"/> Oil and Gas Extraction	435	<input type="checkbox"/> Ore Mining and Dressing	440
<input type="checkbox"/> Organic Chemicals, Plastics, and Synthetic Fibers (OCPSF)			414
<input type="checkbox"/> Paint Formulating	446	<input type="checkbox"/> Paving and Roofing Materials	443
<input type="checkbox"/> Pesticide Chemicals Manufacturing, Formulating and Packaging			455
<input type="checkbox"/> Petroleum Refining	419	<input type="checkbox"/> Pharmaceutical Manufacturing	439
<input type="checkbox"/> Photographic	459	<input type="checkbox"/> Plastic Molding and Forming	463
<input type="checkbox"/> Porcelain Enameling	466	<input type="checkbox"/> Pulp, Paper, and Paperboard	430
<input type="checkbox"/> Rubber Manufacturing	428	<input type="checkbox"/> Soaps and Detergents Manufacturing	417
<input type="checkbox"/> Steam Electric Power Generating	423	<input type="checkbox"/> Sugar Processing	409
<input type="checkbox"/> Textile Mills	410	<input type="checkbox"/> Timber Products Processing	429
<input type="checkbox"/> Transportation Equipment Cleaning (TEC)			442
<input type="checkbox"/> Waste Combustors	444		
<input type="checkbox"/> Other (Identify)_____			

C.2. a) Describe any wastewater pretreatment system

- Biological Treatment, type \_\_\_\_\_
- Centrifuge
- Chemical Precipitation
- Chlorination
- Cyclone
- Dissolved Air Floatation
- Filtration
- Flow Equalization
- Grease Trap
- Grit Removal
- Ion Exchange
- Neutralization, pH adjustment
- Oil/Water Separator, type \_\_\_\_\_
- Ozonation
- Rainwater Diversion or Storage
- Reverse Osmosis
- Screening
- Sedimentation
- Septic Tank
- Solvent Separation
- Spill Protection
- Sump
- Other Chemical Treatment, type \_\_\_\_\_
  
- Continuous Operation
- Batch Operation
  
- No Pretreatment Provided

b) List the operator of record and his/her license number(s).

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c) List all contract laboratories and their SCDHEC certification numbers

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C.3. Please attach analyses of untreated wastewater generated from your facility to this questionnaire. Be sure to include the flow during the sample period, and location(s) from which sample(s) were taken (attach sketches, plans, etc., as necessary)

Flow at time sample collected: \_\_\_\_\_ MGD

C.4. Priority Pollutant Information: Please indicate by placing an "X" in the box by each listed chemical whether it is "Known to be Present" in your manufacturing or service activity or generated as a by-product. Please indicate the amount discharged to the sewer, waste hauler, or other (product, recycle, etc.).

Chemical	Known Present	Amount to Sewer lbs or mg/l	Amount to Waste Hauler lbs or gals	Amount to Other lbs or gals
<b>I. METALS AND INORGANICS</b>				
1. Antimony	[ ]	_____	_____	_____
2. Arsenic	[ ]	_____	_____	_____
3. Asbestos	[ ]	_____	_____	_____
4. Beryllium	[ ]	_____	_____	_____
5. Cadmium	[ ]	_____	_____	_____
6. Chromium	[ ]	_____	_____	_____
7. Copper	[ ]	_____	_____	_____
8. Cyanide	[ ]	_____	_____	_____
9. Lead	[ ]	_____	_____	_____
10. Mercury	[ ]	_____	_____	_____
11. Nickel	[ ]	_____	_____	_____
12. Selenium	[ ]	_____	_____	_____
13. Silver	[ ]	_____	_____	_____
14. Thallium	[ ]	_____	_____	_____
15. Zinc	[ ]	_____	_____	_____
<b>II. PHENOLS AND CRESOLS</b>				
16. Phenol(s)	[ ]	_____	_____	_____
17. Phenol, 2-chloro	[ ]	_____	_____	_____
18. Phenol, 2, 4-dichloro	[ ]	_____	_____	_____
19. Phenol, 2,4,6-trichloro	[ ]	_____	_____	_____
20. Phenol, pentachloro	[ ]	_____	_____	_____
21. Phenol, 2-nitro	[ ]	_____	_____	_____
22. Phenol, 4-nitro	[ ]	_____	_____	_____
23. Phenol, 2,4-dinitro	[ ]	_____	_____	_____
24. Phenol, 2,4-dimethyl	[ ]	_____	_____	_____
25. m-Cresol, p-chloro	[ ]	_____	_____	_____
26. o-Cresol, 4,6-dinitro	[ ]	_____	_____	_____

	Chemical	Known Present	Amount to Sewer lbs or mg/l	Amount to Waste Hauler lbs or gals	Amount to Other lbs or gals
III.	<u>MONOCYCLIC AROMATICS</u> (Excluding Phenols, Cresols and Phthalates)				
27.	Benzene	[ ]	_____	_____	_____
28.	Benzene, chloro	[ ]	_____	_____	_____
29.	Benzene, 1,2-dichloro	[ ]	_____	_____	_____
30.	Benzene, 1,3-dichloro	[ ]	_____	_____	_____
31.	Benzene, 1,4-dichloro	[ ]	_____	_____	_____
32.	Benzene, 1,2,4-trichloro	[ ]	_____	_____	_____
33.	Benzene, hexachloro	[ ]	_____	_____	_____
34.	Benzene, ethyl	[ ]	_____	_____	_____
35.	Benzene, nitro	[ ]	_____	_____	_____
36.	Toluene	[ ]	_____	_____	_____
37.	Toluene, 2,4-dinitro	[ ]	_____	_____	_____
38.	Toluene, 2,6-dinitro	[ ]	_____	_____	_____
IV.	<u>PCBs AND RELATED COMPOUNDS</u>				
39.	PCB-1016	[ ]	_____	_____	_____
40.	PCB-1221	[ ]	_____	_____	_____
41.	PCB-1232	[ ]	_____	_____	_____
42.	PCB-1242	[ ]	_____	_____	_____
43.	PCB-1248	[ ]	_____	_____	_____
44.	PCB-1254	[ ]	_____	_____	_____
45.	PCB-1260	[ ]	_____	_____	_____
46.	2-Chloronaphthalene	[ ]	_____	_____	_____
V.	<u>ETHERS</u>				
47.	Ether, bis (chloroethyl)	[ ]	_____	_____	_____
48.	Ether, bis (2-Chloromethyl)	[ ]	_____	_____	_____
49.	Ether, bis (2-chloroisopropyl)	[ ]	_____	_____	_____
50.	Ether, vinyl (2-chloroethyl)	[ ]	_____	_____	_____
51.	Ether, phenyl (4-bromophenyl)	[ ]	_____	_____	_____
52.	Ether, phenyl (4-chlorophenyl)	[ ]	_____	_____	_____
53.	Methane, Bis (2-chloroethoxy)	[ ]	_____	_____	_____



	Chemical	Known Present	Amount to Sewer lbs or mg/l	Amount to Waste Hauler lbs or gals	Amount to Other lbs or gals
<b>VI. <u>NITROSAMINES AND OTHER NITROGEN-CONTAINING COMPOUNDS</u></b>					
54.	Nitrosamine, dimethyl	[ ]	_____	_____	_____
55.	Nitrosamine, diphenyl	[ ]	_____	_____	_____
56.	Nitrosamine, di-n-propyl	[ ]	_____	_____	_____
57.	Benzidine	[ ]	_____	_____	_____
58.	Benzidine, 3,3-dichloro	[ ]	_____	_____	_____
59.	Hydrazine, 1,2-diphenyl	[ ]	_____	_____	_____
60.	Acrylonitrile	[ ]	_____	_____	_____
<b>VII. <u>HALOGENATED ALIPHATICS</u></b>					
61.	Methane, bromo	[ ]	_____	_____	_____
62.	Methane, chloro	[ ]	_____	_____	_____
63.	Methane, dichloro	[ ]	_____	_____	_____
64.	Methane, chlorodibromo-	[ ]	_____	_____	_____
65.	Methane, dichlorobromo-	[ ]	_____	_____	_____
66.	Methane, tribromo-	[ ]	_____	_____	_____
67.	Methane, trichloro-	[ ]	_____	_____	_____
68.	Methane, tetrachloro-	[ ]	_____	_____	_____
69.	Methane, trichlorofluoro-	[ ]	_____	_____	_____
70.	Methane, dichlorodifluoro-	[ ]	_____	_____	_____
71.	Ethane, 1,1-dichloro-	[ ]	_____	_____	_____
72.	Ethane, 1,2-dichloro-	[ ]	_____	_____	_____
73.	Ethane, 1,1,1-trichloro-	[ ]	_____	_____	_____
74.	Ethane, 1,1,2-trichloro-	[ ]	_____	_____	_____
75.	Ethane, 1,1,2,2-tetrachloro-	[ ]	_____	_____	_____
76.	Ethane, hexachloro	[ ]	_____	_____	_____
77.	Ethene, chloro	[ ]	_____	_____	_____
78.	Ethene, 1,1-dichloro-	[ ]	_____	_____	_____

	Chemical	Known Present	Amount to Sewer lbs or mg/l	Amount to Waste Hauler lbs or gals	Amount to Other lbs or gals
79.	Ethene, 1,2-trans-dichloro-	[ ]	_____	_____	_____
80.	Ethene, trichloro-	[ ]	_____	_____	_____
81.	Ethene, tetrachloro-	[ ]	_____	_____	_____
82.	Propane, 1,2-dichloro-	[ ]	_____	_____	_____
83.	Propene, 1,3-dichloro-	[ ]	_____	_____	_____
84.	Butadiene, hexachloro	[ ]	_____	_____	_____
85.	Cyclopentadiene, hexachloro	[ ]	_____	_____	_____

VIII. PHTHALATE ESTERS

86.	Phthalate, dimethyl	[ ]	_____	_____	_____
87.	Phthalate, di-n-ethyl	[ ]	_____	_____	_____
88.	Phthalate, di-n-butyl	[ ]	_____	_____	_____
89.	Phthalate, di-n-octyl	[ ]	_____	_____	_____
90.	Phthalate, bis (2-ethylhexyl)	[ ]	_____	_____	_____
91.	Phthalate, (butyl benzyl)	[ ]	_____	_____	_____

IX. POLYCYCLIC AROMATIC HYDROCARBONS

92.	Acenaphthene	[ ]	_____	_____	_____
93.	Acenaphthylene	[ ]	_____	_____	_____
94.	Benzo (a) anthracene	[ ]	_____	_____	_____
95.	Benzo (b) fluoranthene	[ ]	_____	_____	_____
96.	Benzo (k) fluoroanthene	[ ]	_____	_____	_____
97.	Benzo (ghi) perylene	[ ]	_____	_____	_____
98.	Benzo (a) pyrene	[ ]	_____	_____	_____
99.	Chrysene	[ ]	_____	_____	_____
100.	Dibenzo (a,h) anthracene	[ ]	_____	_____	_____
101.	Fluoranthene	[ ]	_____	_____	_____
102.	Fluorene	[ ]	_____	_____	_____
103.	Indeno (1,2,3-cd) pyrene	[ ]	_____	_____	_____

	Chemical	Known Present	Amount to Sewer lbs or mg/l	Amount to Waste Hauler lbs or gals	Amount to Other lbs or gals
104.	Naphthalene	[ ]	_____	_____	_____
105.	Phenanthrene	[ ]	_____	_____	_____
106.	Pyrene	[ ]	_____	_____	_____
X.	<u>PESTICIDES</u>				
107.	Acrolein	[ ]	_____	_____	_____
108.	Aldrin	[ ]	_____	_____	_____
109.	BHC (Alpha)	[ ]	_____	_____	_____
110.	BHC (Beta)	[ ]	_____	_____	_____
111.	BHC (Delta)	[ ]	_____	_____	_____
112.	BHC (Gamma) or Lindane	[ ]	_____	_____	_____
113.	Chlordane	[ ]	_____	_____	_____
114.	DDD	[ ]	_____	_____	_____
115.	DDE	[ ]	_____	_____	_____
116.	DDT	[ ]	_____	_____	_____
117.	Dieldrin	[ ]	_____	_____	_____
118.	Endosulfan (Alpha)	[ ]	_____	_____	_____
119.	Endosulfan (Beta)	[ ]	_____	_____	_____
120.	Endosulfan Sulfate	[ ]	_____	_____	_____
121.	Endrin	[ ]	_____	_____	_____
122.	Endrin Aldehyde	[ ]	_____	_____	_____
123.	Heptachlor	[ ]	_____	_____	_____
124.	Heptachlor epoxide	[ ]	_____	_____	_____
125.	Isophorone	[ ]	_____	_____	_____
126.	TCDD (or Dioxin)	[ ]	_____	_____	_____
127.	Toxaphene	[ ]	_____	_____	_____

C.5. Attach the list of top ten (10) peaks not on the above list.

C.6. Waste characteristics from non-categorical wastestream. Be sure to include the flow during the sample period, and location(s) from which sample(s) were taken (attach sketches, plans, etc., as necessary)

BOD _____ mg/l	pH _____ su
NH3-N _____ mg/l	TSS _____ mg/l
HEM _____ mg/l	SGT-HEM _____ mg/l
Formaldehyde _____ mg/l	Flow _____ MGD

C.7. List the category for each discharge from a regulated process (those with an existing or proposed categorical limit) to sanitary sewer system and their locations. Indicate if any of the regulated wastestreams are mixed with non-regulated wastestreams.

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C.8. Provide a schematic drawing showing the regulated process wastestreams, domestic wastewater flows, cooling water, boiler blowdown, etc.

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C.9. Regulated Wastewater characteristics

a) Identify the discharge from each regulated process and give flow for each type of discharge.

PROCESS	FLOW (GPD)		
	CONTINUOUS	INTERMITTENT	BATCH

b) Waste characteristics from regulated wastestream(s) if different from C.6. Be sure to include the flow during the sample period, and location(s) from which sample(s) were taken (attach sketches, plans, etc., as necessary):

BOD \_\_\_\_\_ mg/l  
 NH3-N \_\_\_\_\_ mg/l  
 HEM \_\_\_\_\_ mg/l  
 Formaldehyde \_\_\_\_\_ mg/l

pH \_\_\_\_\_ su  
 TSS \_\_\_\_\_ mg/l  
 SGT-HEM \_\_\_\_\_ mg/l  
 Flow \_\_\_\_\_ MGD

C.10. Does the wastewater discharged:

- a) Create a fire or explosion hazard?       Yes       No  
If yes, flashpoint \_\_\_\_\_
- b) Have a pH lower than 5.0 su?       Yes       No
- c) Contain a substance that can obstruct the flow in the collection system?  
 Yes       No
- d) Have a temperature of greater than 140° F?       Yes       No
- e) Contain petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin?  
 Yes       No
- f) Contain pollutants which may create toxic gases, vapors, or fumes?  
 Yes       No  
If yes, specify \_\_\_\_\_
- g) Consist of trucked or hauled wastes?       Yes       No

**SECTION D - OTHER WASTES**

D.1. Are any liquid wastes or sludges from this firm disposed of by means other than discharge to the sewer system?

yes       no

if no skip remainder of Section D.  
If yes complete the following items.

D.2. These wastes may be best described as:

	Estimated Gallons or Pounds / Year
<input type="checkbox"/> Acids and Alkalies	_____
<input type="checkbox"/> Heavy Metal Sludges	_____
<input type="checkbox"/> Inks/Dyes	_____
<input type="checkbox"/> Oil and/or Grease	_____
<input type="checkbox"/> Paints	_____
<input type="checkbox"/> Pesticides	_____
<input type="checkbox"/> Plating Wastes	_____
<input type="checkbox"/> Pretreatment Sludges	_____
<input type="checkbox"/> Solvents/Thinners	_____
<input type="checkbox"/> Other Hazardous Wastes (specify)	_____
_____	_____
_____	_____
<input type="checkbox"/> Other Wastes (specify)	_____
_____	_____
_____	_____

D.3. For the above checked wastes, does your company practice:

- On-site storage
- Off-site storage
- On-site disposal
- Off-site disposal

Briefly describe the method(s) of storage or disposal checked above.

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**SECTION E – PERMIT ACTIVITY**

E.1. Is this an application for a new permit  or a permit renewal ?

E.2. For new permits:

Does your business plan to make any changes in its operation within the next two (2) years that will increase or decrease the concentration, volume, or other characteristics of your discharge to the NCSD sanitary sewer?  Yes  No

If yes, describe: \_\_\_\_\_  
\_\_\_\_\_

E.3. For a permit renewal:

Within the last year, has your business made any changes in its operation that have increased/decreased or will increase/decrease the concentration, volume, or other characteristics of your discharge into the NCSD sanitary sewer?  Yes  No

If yes, describe: \_\_\_\_\_  
\_\_\_\_\_