

NORLITE CORPORATION

REVISED ENGINEERING REPORT AND SPDES PERMIT MODIFICATION APPLICATION

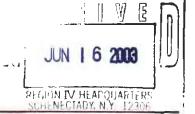
Prepared For:

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1.0 INTRODUCTION

Sterling Environmental Engineering, P.C. (STERLING) is submitting this Engineering Report and application to modify the existing State Pollutant Discharge Elimination System (SPDES) Permit (Permit ID #0004880) on behalf of Norlite Corporation (Norlite) for the design and operation of a storm water treatment unit. The treatment unit has been designed to treat runoff from the Tanker Staging Area and from the Specification Used Oil Fuel Storage Area, located at the Low Grade Fuel Storage Facility at Norlite. Norlite is located in the City of Cohoes, Albany County, New York. Figure 1, "Site Location Map," shows the general location of the subject property. The New York State Department of Environmental Conservation (NYSDEC) has requested the addition of this storm water treatment unit operation, which will necessitate the modification to the existing SPDES Permit for the Norlite facility.

This Engineering Report contains all of the requirements for a modification to the existing SPDES Permit. The SPDES Permit Application is for discharge of treated storm water from the Tanker Staging Area and from the Specification Used Oil Fuel Storage Area at the Low Grade Fuel Storage Facility to an area that indirectly discharges to the Salt Kill, which is a Class D tributary of the Hudson River. The SPDES Permit Application form is presented as Appendix A. A completed Short Environmental Assessment Form (EAF) is presented as Appendix B.

The Norlite facility is located on the southern boundary of the City of Cohoes, Albany County. The subject property is approximately 220 acres in size, and consists of a shale quarry and an industrial facility that produces lightweight aggregate for construction industries. The subject property has variable topography, however generally slopes downward from west to east.

2.0 PURPOSE AND OBJECTIVES

This Engineering Report has been prepared for the purpose of modifying Norlite's SPDES Permit to manage storm water from the Tanker Staging Area and the Specification Used Oil Fuel Storage Area at the Low Grade Fuel Storage Facility to an area that indirectly discharges to the Salt Kill. This report describes the general features of the existing subject property and proposed improvements, the basis of the unit operation design, and the general operation of the treatment unit. This report also discusses the potential environmental impacts of the proposed design.

3.0 BASIS OF DESIGN

The storm water treatment system has been designed in accordance with the standards set forth in the T.O.G.s 1.2.1 Industrial Permit Writing, 5.1.8 Stormwater Management Guidelines for New Development, and the 1988 NYSDEC publication, "Design Standards for Wastewater Treatment Works".

The storm water treatment system will need to treat an estimated 315,000 gallons per year. This estimate is based on an average precipitation rate of approximately 36 inches per year (not adjusting for evaporation) for Albany, New York. The area of the Tanker Staging Area is approximately 12,000 square feet (ft^2) and the area of the Specification Used Oil Fuel Storage Area is approximately 2,000 ft². Thus, the total area collecting precipitation is approximately 14,000 ft². Storm water will be pumped into the Batch Equalization/Preliminary Treatment Tank (Batch Tank) after each significant storm event until the Batch Tank is filled.

The treatment system consists of a 20,000-gallon Batch Tank for settling and a pair of Activated Carbon Vessels as described in more detail in Section 4.0.

The Tanker Staging Area has an impermeable membrane liner and the Specification Used Oil Fuel Storage Area has concrete secondary containment beneath the steel tanks within the area. Both of these are designed to contain 100% of the capacity of the largest tank and to contain precipitation from a 25-year, 24-hour rainfall event. For the 14,000 ft² combined collection area, the volume of precipitation from such a storm would be approximately 35,000 gallons. As the Batch Tank is 20,000 gallons, there will be events when it will take more than one batch to treat the contained volume of precipitation. The containment systems of both the Tanker Staging Area and the Specification Used Oil Fuel Storage Area are designed to accommodate this temporary storage.

4.0 **PROPOSED FACILITIES**

The proposed treatment system will be located in the approximate location shown on Plate 1 and will consist of a batch-settling tank and a pair of Activated Carbon Vessels. The schematic arrangement of these treatment steps is shown in Figure 2. The batch-settling tank will be used for primary settling. Also the batch-settling tank will contain oil absorbent floats. The Activated Carbon Vessels are designed for the removal of trace organic components. These components are described in more detail in the following sections.

4.1 Storm Water Intake Devices

The Specification Used Oil Fuel Storage Area has a designated sump area equipped with a pump. The Tanker Staging Area has one corner that is the lowest point in that area. A pump attached to a flexible hose will be placed in a standard sump can with a filter fabric wrap at this low point.

4.2 Batch Equalization/Preliminary Treatment Tank

The Batch Tank is designed to provide chemical equalization, flow equalization, and primary treatment of storm water runoff for settleable solids and floating oils.

The Batch Tank is cylindrical in shape with hemispherical ends and is approximately 40 feet long by 10 feet in diameter with a capacity of approximately 20,000 gallons. The Batch Tank is constructed of steel of approximately ¹/₂-inch thickness and is epoxy-lined.

The Batch Tank will be supported to distribute the weight of the tank and its contents along its long axis.

The outlet of the tank will be approximately 18 inches above the bottom. The volume of the tank beneath the 18-inch level will function as a quiescent volume in which settleable material will accumulate. Periodically, the tank will be emptied, the port removed, and the solids in the bottom will be removed for proper disposal according to local, State and Federal requirements.

Preliminary treatment of floating oils will be provided by the placement of oil absorbent booms.

Oil absorbent booms will provide primary treatment to the storm water by absorbing floating and dissolved oils and petroleum.

The oil absorbent booms will be periodically removed for proper disposal according to local, State and Federal requirements, and additionally replaced at the same time that the accumulated solids are removed from the tank.

4.3 Carbon Treatment

On a batch basis, storm water from the Batch Tank will be passed through the Activated Carbon Vessels for treatment. This treatment will provide secondary and tertiary treatment of the storm water.

4.3.1 Loading Rate

The design normal loading rate for the treatment system will be 2,500 gallons per hour (gph) with a maximum loading rate of 5,000 gph.

4.3.2 Batch Treatment Sessions

The volume of accumulated storm water in the Batch Tank, up to 20,000 gallons per batch, will be treated by pumping through the Activated Carbon Vessels. On average, the treatment of storm water will take place in approximately 15 to 18 batch treatment sessions during the year. The system has the capability to treat individual batches in eight (8) hours at the design flow rate.

4.3.3 Capacity of Carbon Adsorbent

Each Activated Carbon Vessel would last 3.3 years based on the storm water characteristics identified by an analysis (see Appendix C).

4.4 Activated Carbon Vessel

The Activated Carbon Vessel, as shown in Figure 2, is approximately 80 inches tall in the cylindrical portion and 48 inches in diameter. This provides approximately 1,810 square inches or 12.57 ft² of cross-sectional surface area. The loading rate will be 3.3 gallons per minute/square foot (gpm/ft^2) of storm water from the Batch Tank. The surface area of the Activated Carbon Vessel is sufficient to handle the total design flow.

The proposed carbon treatment vessel has been evaluated with respect to the following components of typical design standards.

4.4.1 Distribution

Storm water will enter the influent pipe at one end of the Activated Carbon Vessel.

4.4.2 Carbon Media

The activated carbon media will be supplied by Calgon Carbon Corporation or will be an equivalent material. Approximately 2,400 pounds of granular carbon media will be added to the Activated Carbon Vessel. Each pound of carbon media can absorb approximately one tenth of a pound of petroleum. The carbon media will provide tertiary treatment to the storm water by adsorbing oils, petroleum and organics.

4.4.3 Replacement of Carbon Adsorbent

Each year the carbon adsorbent in the Activated Carbon Vessel will be replaced with new materials. The adsorbent will be removed for proper disposal according to local, State and Federal requirements.

4.4.4 Effluent Collection and Discharge

The treated effluent will drain through perforated collection pipes inside the vessel and will be discharged to the existing storm water drainage swale on the west side of the closed landfill via a force-main. The outlet will be anchored such that the outfall discharges onto a fan of riprap approximately four (4) feet in length to dissipate the velocity of effluent and minimize erosion. This outfall will also serve as the compliance monitoring point for sampling. The existing drainage swale on the west side of the landfill flows from north to south and enters the Salt Kill via existing outfall 007.

4.5 Flow Measurement

Flow measurement will be accomplished through use of a totalizer meter.

5.0 UNIT OPERATIONS AND MAINTENANCE

The system proposed is simple in its design and operation, and requires minimal operator attention. The system will undergo two (2) inspections per year; once following system start-up and once following initial shakedown of operations.

Monitoring will be for the following parameters:

- Temperature (°F);
- pH;
- Total Suspended Solids; and
- Oil and Grease.

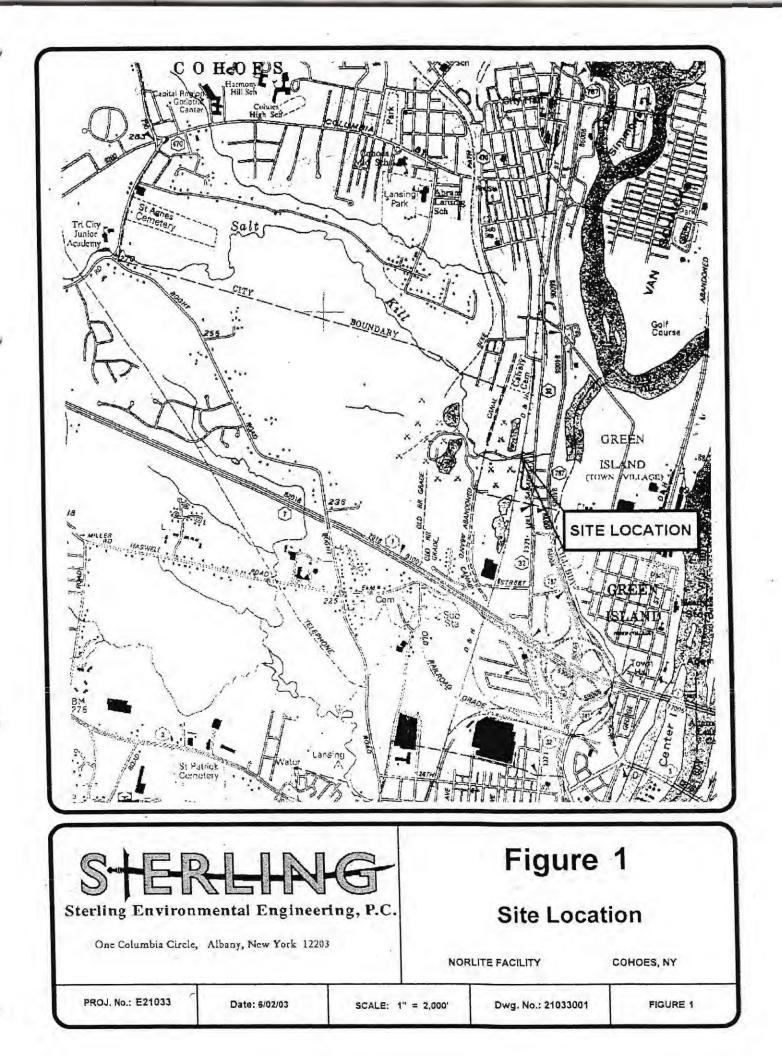
6.0 ENVIRONMENTAL CONDITIONS

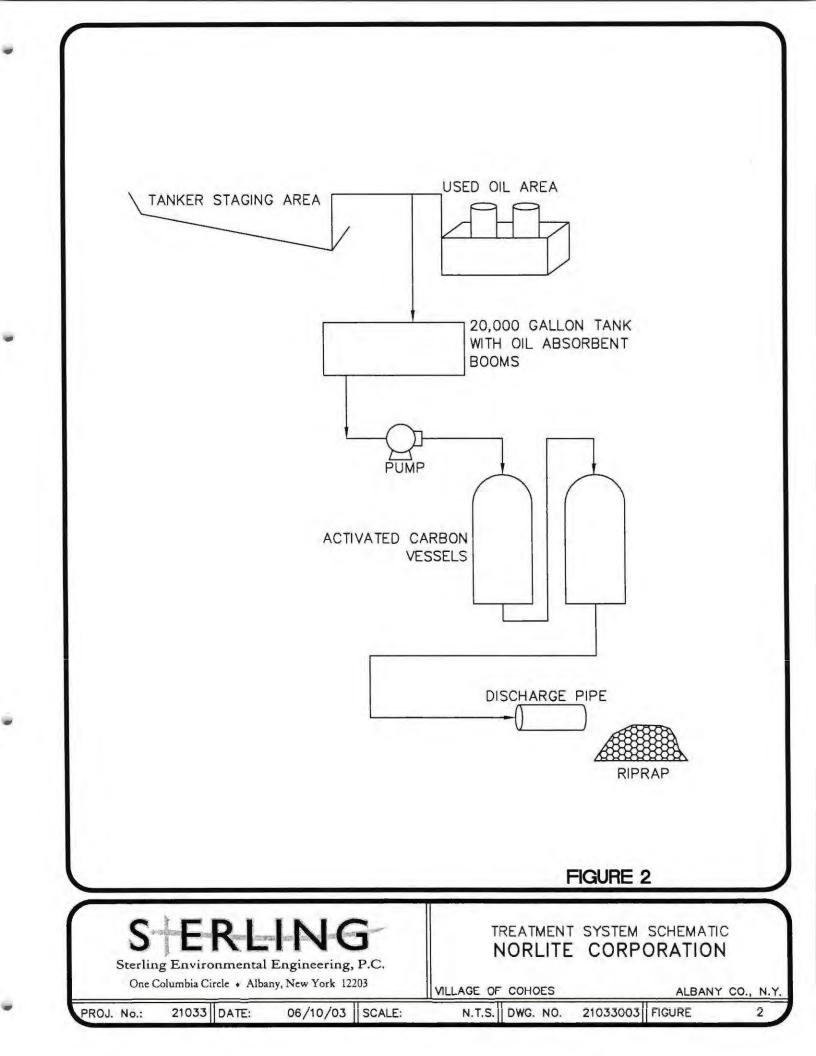
A completed Short Form EAF is attached as Appendix B. The proposed project is expected to have a positive impact upon the surrounding environment in that it provides for the treatment of storm water.

The proposed project is consistent with the prevailing land use in the vicinity of the property, which is industrial in nature. There are no significant habitats, historic or aesthetic resources on the subject property that would be affected by the project.

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FIGURES





APPENDIX A

STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) PERMIT APPLICATION FORM

Form NY-2C (12/98) - Section I Forms

State Pollutant Discharge Elimination System (SPDES) INDUSTRIAL APPLICATION FORM NY-2C

For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water

Section I - Permittee and Facility Information

Please type or print the requested information.

SPDES Number:	DEC Number:			
NY-0004880	4-0103-16/00020			
A NEW proposed discharge	Check applicable box) An EBPS INFORMATION REQUEST response A RENEWAL of an existing SPDES permit quantity of water discharged from your facility to the waters of the State?			
X YES - Describe the increase: NO - Go to Item 3. below.	The new discharge of storm water from the Tanker Staging Area and the Specification Used Oil Fuel Storage Area at 315,000 gallons per year.			

3. Permittee Name and Address

Name		Attention
Norlite Corporation		William Morris
Street Address		
<u>628 South Saratoga Street</u>		
City or Village	State	ZIP Code
Cohoes	NY	12047

4. Facility Name, Address and Location

Name				
Norlite Corporation				
Street Address			P.O. Box	
<u>628 South Saratoga St</u>	reet			
City or Village		State	ZIP Code	
Cohoes		NY	12047	
Town		County		
		A	lbany County	
Telephone 518/235-0401	AX 510 (225 022		NYTM - E	NYTM - N
518/235-0401	518/235-023	3	ļ	4
Tax Map Info (New York City, Nassau County and S	uffolk County only)			
Section B	lock	Subblock		Lot

5. Facility Contact Person

Name Timothy F. Lachell	Title Plant Manager		
Street Address 628 South Saratoga		P.O. Box	
City or Village Cohoes	State NY	ZIP Code 1 2 0 4 7	
Telephone 518/235-0401	FAX 518/235-0233	E-Mail or Internet	
ext. 4037 6. Discharge Monitoring Report (D Mailing Name Norlite Corporatio			
Street Address 628 South Saratoga			P.O. Box
City or Village Cohoes		State NY	ZIP Code 12047
Telephone 518/235-0401	FAX 518/235-0233	E-Mail or Internet	/

Signature

land

 518/235-0401

 Name and Title of person responsible for signing DMRs

William Morris

Page 1

Form NY-2C (12/98) - Section I Forms

INDUSTRIAL APPLICATION FORM NY-2C Section I - Permittee and Facility Information

Facility Name:	SPDES Number:
Norlite Corporation	NY-0004880

7. Summarize the outfalls present at the facility:

Outfall Number	Receiving Water	Type of discharge
003	Salt Kill Creek	Quarry Water
004	Salt Kill Creek	Shale Fines, Leachate & Stormwater Ru
006	Mohawk River	from Landfill are Scrubber blowdown, non-contact
	· · · · · · · · · · · · · · · · · · ·	cooling water, and boiler blowdown
		wastewater treatment discharges
007	Salt Kill Creek	Storm runoff

8. Map of Facility and Discharge Locations:

Provide a detailed map showing the location of the facility, all buildings or structures present, wastewater discharge systems, outfall locations into receiving waters, nearby surface water bodies, water supply wells, and groundwater monitoring wells, and attach it to this application. Also submit proof, either by indication on the map or other documentation, that a right of way for the discharges exists from the facility property to a public right of way.

9. Water Flow Diagram:

See Figure 2 in Engineering Report.

See	Figure	2 in	Engineering	Report.
				· · · · ·

INDUSTRIAL APPLICATION FORM NY-2C Section I - Permittee and Facility Information

Facility Name: Norlite Corporation	SPDES Number: NY-0004880
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10. Nature of business: (Describe the activities at the facility and the date(s) that operation(s) at the facility commenced)

Lightweight aggregate production operation commenced circa 1958.

-

11. List the 4-digit SIC codes which describe your facility in order of priority:

Priority 1 3 2 9 5	Description: or Treated	Priority 3	Description:
3 2 9 5	Minerals and Earths Ground		ļ
Priority 2	Description:	Priority 4	Description:

12. Is your facility a primary industry as listed in Table 1 of the instructions?

YES -	Complete	the	following	table.

X NO - Go to Item 13. below,

Industrial Category	40 CFR		Industrial Category	40 CFR		
	Part	Subpart		Part	Subpart	
		[
	ļ · ·	[
					}	

13. Does this facility manufacture, handle, or discharge recombinant-DNA, pathogens, or other potentially infectious or dangerous organisms?

X

Х

 $\ensuremath{\text{YES}}$ - Attach a detailed explanation to this application.

NO - Go to Item 14 below.

14. Is storm runoff or leachate from a material storage area discharged by your facility?

YES - Complete the following table, and show the location of the stockpile(s) and discharge point(s) on the diagram in Item 9.

NO - Go to Item 15 on the following page.

Size of area	Type(s) of material stored	Quantity of material stored	Runoff control devices	

Form	NY-2C	(12/98)	- Section	I Forms
	111-20	1230		1101113

INDUSTRIAL APPLICATION FORM NY-2C Section I - Permittee and Facility Information

Facility Name: Norlite	e Corporation		SPDES Number:	NY-0004880)
	(Place an "X" in the appropriate		State	Federal	Other
Are any of the discharges appli	ed for in this application on Indiar	a lands?	Yes	No	
		l permits for this facility	/:		
Issuing Agency	Permit Type	Permit Number	Active	Permit Status Applied for	Inactive
NYSDEC	Mining	4-103-16/19-0	X		
NYSDEC	373	4-0103-16/16-0	x		
NYSDEC	Air Title V	4-0103-16/00048			
NYSDEC	PBS	4-052574	x		
NYSDEC	SW	4-0103-16/24-0			х
NYSDEC	Haz. Blk. Stor	age 4000198	x		

17. Laboratory Certification:

Х

Were any of the analyses reported in Section III of this application performed by a contract laboratory or a consulting firm?

YES - Complete the following table.

NO - Go to Item 18 below.

Name of laboratory or consulting firm	Address	Telephone (area code and number)	Pollutants analyzed
Adirondack Environmental Services, Inc.	314 North Pearl Street Albany, NY 12207	518/434–4546	TSS Total Settleable Solid O&G TPH TOC

18. Certification

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 and official title (type or print) William Morris		Date-signed
Signature Man	Telephone number 518/235-0401	FAX number 518/235-0233

INDUSTRIAL APPLICATION FORM NY-2C Section I – Permittee and Facility Information

Facility Name:	SPDES Number:
Norlite Corporation	NY-0004880

19. Industrial Chemical Survey (ICS)

Complete all information for those substances your facility has used, produce, stored, distributed, or otherwise disposed of in the past five (5) years at or above the threshold values listed in the instructions. Include substances manufactured at your facility, as well as any substances that you have reason to know or believe present in materials used or manufactured at your facility. Do not include chemicals used only in analytical laboratory work, or small quantities of routine household cleaning chemicals. Enter the name and CAS number for each of the chemicals listed in Tables 6-10 of the instructions, and the table number which lists the chemical. You may use ranges (e.g. 10-100 lbs., 100-1000 lbs., etc) to describe the quantities used on an annual basis as well as for the amount presently on hand. For those chemicals listed in Tables 6, 7, or 8 which are indicated as being potentially present in the discharge for one or more outfalls at the facility, indicate which outfalls may be affected in the appropriate column below, and include sampling results in Section III of this application for each of the potentially affected outfalls.

Make additional copies of this sheet if necessary.

Name of Substance	Table	CAS Number	Average Annual Usage	Amount Now On Hand	Units (gallons, Ibs, etc)	Purpose of Use (see codes in Table 2 of instructions)	Present in Discharge? (Outfall(s)?)
1,1,1-trichloroethane	6	71-55-6	327,871.25	Varies	lbs	OTH ²	NA ³
1,1,2-trichloro-1,2,2-trifluoroethane	9	76-13-1	77,416.13	Varies	lbs	OTH ²	NA ³
1,1,2-trichloroethane	6	79-00-5	20,018.81	Varies	lbs	OTH ²	NA ³
2,4,5-TP Silvex	NL ¹	93-72-1	0.10	Varies	lbs	OTH ²	NA ³
2,4,5-trichlorophenol	8	95-95-4	14,344.18	Varies	lbs	OTH ²	NA ³
2,4,6-trichlorophenol	NL ¹	88-06-2	14,344.18	Varies	lbs	OTH ²	- NA ³
2,4-dichlorophenoxyacetic acid (2,4-D)	7	94-75-7	12.85	Varies	lbs	OTH ²	NA ³
acetic acid	10	64-19-7	40,339.39	Varies	lbs	OTH ²	NA ³
acetone	7	67-64-1	602,455.34	Varies	lbs	OTH ²	NA ³
acetonitrile	8	75-05-8	1,041,708.91	Varies	lbs	OTH ²	NA ³
acrylonitrile	6	107-13-1	104.56	Varies	lbs	OTH ²	NA ³
aniline	7	62-53-3	15,721.99	Varies	lbs	OTH ²	NA ³
anthracene	6	120-12-7	442.67	Varies	lbs	OTH ²	NA ³
benzene	6	71-43-2	178,455.74	Varies	lbs	OTH ²	NA ³
benzo(a)pyrene	6	50-32-8	1,059.63	Varles	lbs	OTH ²	NA ³
benzo(ghi)perylene	6	191-24-2	0.00	Varies	lbs	OTH ²	NA ³
benzo(k)fluoranthene	6	207-08-9	101.45	Varies	lbs	OTH ²	NA ³
benzoic acid	10	65-85-0	11,502.53	Varies	lbs	OTH ²	NA ³
bomyl	10	122-10-1	0.04	Varies	lbs	OTH ²	NA ³
butyl acetate	10	123-86-4	364,990.09	Varies	lbs	OTH ²	NA ³
butylbenzyl phthalate	6	85-68-7	12,987.00	Varies	lbs	OTH ²	NA ³
carbon disulfide	8	75-15-0	69,423.97	Varies	lbs	OTH ²	NA ³
carbon tetrachloride	6	56-23-5	25,034.58	Varies	lbs	OTH ²	NA ³
chlordane	6	57-74-9	332.64	Varies	lbs	OTH ²	NA ³
chlorobenzene	6	108-90-7	23,760.21	Varies	lbs	OTH ²	NA ³
chloroform	6	67-66-3	60,946.17	Varies	lbs	OTH ²	NA ³
chrysene	6	218-01-9	782.41	Varies	lbs	OTH ²	NA ³
creosote	10	8001-58-9	25,351.05	Varies	lbs	OTH ²	NA ³
cresol	NL1	108-39-4	63,081.69	Varies	lbs	OTH ²	NA ³
cumene	NL ¹	98-82-8	12,344.52	Varies	lbs	OTH ²	NA ³
cyclohexane	10	110-82-7	155,127.07	Varies	lbs	OTH ²	NA ³
cyclohexanone	10	108-94-1	24,579.79	Varies	lbs	OTH ²	NA ³

This completes Section I of the SPDES Industrial Application Form NY-2C. Section II, which requires specific information for each of the outfalls at your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

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INDUSTRIAL APPLICATION FORM NY-2C Section I – Permittee and Facility Information

·		tion I – Permit				Purpose of	
						Use (see	
			Average	Amount	Units	codes in	Present in
			Annual	Now On	(gallons,		Discharge?
Name of Substance	Table	CAS Number	Usage	Hand		instructions)	(Outfall(s)?)
dibenzo(ah)anthracene	6	53-70-3	0.00	Varies	lbs	OTH ²	NA ³
dichlorobenzene	NL ¹	106-46-7	22,209.30	Varies	lbs	OTH ²	NA ³
	9	68-12-2		Varies	lbs	OTH ²	NA ³
dimethyl formamide	NL ¹		54,561.61 26,173,20	Varies	lbs	OTH ²	NA ³
di-n-octyl phthalate	7	117-84-0 88-85-7		Varies	lbs	OTH ²	NA ³
dinoseb			31,59	Varies	lbs	OTH ²	NA ³
dodecylbenzesulfonic acid	10 NL ¹	25155-30-0	10,613.00	Varies	lbs	OTH ²	NA ³
ethanol		64-17-5	887,003.68	Varies	lbs	OTH ²	NA ³
ethyl acetate	10	141-78-6	265,873.19	Varies	lbs	OTH ²	NA ³
ethyl acrylate	10	140-88-5	32,667.01				NA ³
ethyl ether	10	60-29-7	102,801.04	Varies	lbs	OTH OTH ²	NA ³
ethylbenzene	6	100-41-4	93,819,25	Varies	lbs	1 1	
ethylene glycol	7	107-21-1	23,958.25	Varies	lbs	OTH ²	NA ³
ethylene glycol monoethyl ether	NL ¹	110-80-5	22,776.96	Varies	lbs	OTH ²	NA ³
fluoranthene	6	206-44-0	1,534.74	Varies	lbs	OTH ²	NA ³
formaldehyde	8	50-00-0	21,817.92	Varies	lbs	OTH ²	NA ³
guthion	10	86-50-0	0.10	Varies	lbs	OTH ²	NA ³
heptachlor	6	76-44-8	332.54	Varies	lbs	OTH ²	NA ³
heptane	NL ¹	142-82-5	390,031.18	Varies	lbs	OTH ²	NA ³
hexachlorobenzene	6	118-74-1	1,513.43	Varies	lbs	OTH ²	NA ³
hexachlorobutadiene	6	87-68-3	1,693.60	Varies	lbs	OTH ²	NA ³
hexachloroethane	6	67-72-1	901,97	Varies	lbs	OTH ²	NA ³
hexane	NL ¹	110-54-3	540,692.75	Varies	lbs	OTH ²	NA ³
isobutanol	NL ¹	78-83-1	159,415.99	Varies	lbs	OTH ²	NA ³
isophorone	NL ¹	78-59-1	15,200.06	Varies	lbs	OTH ²	NA ³
isopropanol	NL ¹	67-63-0	839,991.66	Varies	lbs	OTH ²	NA ³
m-cresol	NL ¹	108-39-4	22,802,29	Varies	lbs	OTH ²	NA ³
mercury	6	7439-97-6	6.33	Varies	lbs	OTH ²	NA ³
methanol	10	67-56-1	2,259,631.38	Varies	lbs	OTH ²	NA ³
methoxychlor	7	72-43-5	0.10	Varies	lbs	OTH ²	NA ³
methyl acetate	10	79-20-9	460,731.36	Varies	lbs	OTH ²	NA ³
methyl ethyl ketone	NL'	78-93-3	559,998.20	Varies	lbs	OTH ²	NA ³
methyl isobutyl ketone	10	108-10-1	284,864.48	Varies	lbs	OTH ²	NA ³
methyl methacrylate	7	80-62-6	27,218.29	Varies	lbs	OTH ²	NA ³
methylene chloride	6	75-09-2	523,985.94	Varies	lbs	OTH ²	NA ³
naphthalene	6	91-20-3	24,897.06	Varies	lbs	OTH ²	NA ³
n-butanol	0	71-36-3	385,282.99	Varies	lbs	OTH ²	NA ³
nitrobenzene	6	98-95-3	10,403.90	Varies	lbs	OTH ²	NA ³
o-cresol		95-48-7	22,802.90	Varies	lbs	OTH ²	NA ³
o-toluidine	7	95-53-4	11,994.69	Varies	lbs	OTH ²	NA ³
PCB's	/ NL1	1336-36-3	0.00	Varies	lbs	OTH ²	NA ³
			22,802.88	Varies	lbs	OTH ²	NA ³
p-cresol		106-44-5		Varies	lbs	OTH ²	NA ³
pentachlorophenol	i	87-86-5	14,345.60	Varies	lbs	OTH ²	NA ³
phenanthrene	6	85-01-8	1,660.02	Varies	lbs	OTH ²	NA NA ³
phenol	6	108-95-2	504,097.96	-		OTH ²	NA NA ³
pyrene	6	129-00-0 110-86-1	0.02	Varies Varies	lbs lbs	OTH ²	NA ³

This completes Section I of the SPDES Industrial Application Form NY-2C. Section II, which requires specific information for each of the outfalls at your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

Form NY-2C (12/98) - Section I Forms

Name of Substance	Table	CAS Number	Average Annual Usage	Amount Now On Hand	Units (gallons, Ibs, etc)	Purpose of Use (see codes in Table 2 of instructions)	Present in Discharge? (Outfall(s)?)
styrene	7	100-42-5	92,690.59	Varies	lbs	OTH ²	NA ³
tetrachloroethylene	6	127-18-4	331,320.37	Varies	lbs	OTH ²	NA ³
tetrahydrofuran	9	109-99-9	567,803.47	Varies	lbs	OTH ²	NA ³
thallium	6	7440-28-0	0.36	Varies	lbs	OTH ²	NA ³
toluene	6	108-88-33	2,993,148.45	Varies	lbs	OTH ²	NA ³
trichlorobenzene	NL ¹	120-82-1 /108-70-3 /87-61-6	1,710.13	Varies	lbs	OTH ²	NA ³
trichloroethylene	NL ¹	79-01-6	425,656.72	Varies	lbs	OTH ²	NA ³
trichlorofluromethane	7	75-69-4	17,030.20	Varies	lbs	OTH ²	NA ³
triethylamine	10	121-44-8	18,989.65	Varies	lbs	OTH ²	NA ³
xylene	NL ³	1330-20-7	791,835.83	Varies	lbs	OTH ²	NA ³
zinc bromide	10	7699-45-8	24,959.54	Varies	lbs	OTH ²	NA ³
zinc phosphide	10	1314-87-7	0.06	Varies	lbs	OTH ²	NA ³

INDUSTRIAL APPLICATION FORM NY-2C Section I – Permittee and Facility Information

FOOTNOTES

 NL^1 – "Not Listed" in Tables 6-10.

OTH² – Incineration Process.

 NA^3 – "Not Applicable", The list of chemicals contained in this section was derived from the profiles of the wastestreams that have been accepted for disposal through the years 1997 up to and including 2002. The potential exists, although highly unlikely, for any one of the above chemicals to be present in the influent due to stormwater coming into contact with the truck: that are parked in the truck staging area. All influent will be processed through the carbon filters removing the chemicals before being discharged, as described in the application.

This completes Section I of the SPDES Industrial Application Form NY-2C. Section II, which requires specific information for each of the outfalls at your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

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State Pollutant Discharge Elimination System (SPDES)

INDUSTRIAL APPLICATION FORM NY-2C

For New Permits and Permit Modifications to Discharge Industrial Wastewater and Storm Water

Section II - Outfall Information

Please type or print the requested information.

Facility Name: Norlite Corporation	SPDES Number: NY-0004880

1. Outfall Number and Location

Outfall No.:		008								
Latitude	0	6	66	Longitude	0	£	66	Receiving Water	Salt Kill Creek	

2. Type of Discharge and Discharge Rate (List all information applicable to this outfall)

			Units					Unit	s
	Volume/Flow	MGD	GPM	Other (specify)		Volume/Flow	MGD	GPM	Other (specify)
a. Process Wastewater					f. Noncontact Cooling Water				
b. Process Wastewater					g. Remediation System Discharge				
c. Process Wastewater					h. Boiler Blowdown				
d. Process Wastewater					i. Storm Water				
e. Contact Cooling Water					j. Sanitary Wastewater				
k. Other discharge (specify):	Storm Wat	er -	Memb	rane-1	ined Tanker Storage Are	a 740			GPD
I. Other discharge (specify):	Storm Wat	er -	Spec	ificat	ion Used Oil Fuel Area	120			GPD

3. List process information for the Process Wastewater streams identified in 2.a-d above:

a. Name of the process contributing to the discharge			Process StC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory	1	
b. Name of the process contributing to the discharge]	Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
c. Name of the process contributing to the discharge			Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		
d. Name of the process contributing to the discharge		_!	Process SIC code:
Describe the contributing process	Category	Quantity per day	Units of measure
	Subcategory		

4. Expected or Proposed Discharge Flow Rates for this outfall:

a. Total Annual Disch	arge	b. Daily Minimum Flow		c. Daily Average	Flow	d. Daily Maximu	Im Flow	e. Maximum Design flow rate		
0.315	MG	0	MGD	860	GD	30,000	GD	30,000	GD	

Form NY-2C (12/98) - Section II Forms

INDUSTRIAL APPLICATION FORM NY-2C Section II - Outfall Information

	Outfall No.:
	008
Facility Name:	SPDES Number:
Norlite Corporation	NY-0004880

5. Is this a seasonal discharge?

YES	- Complete	the	following	table.

X NO - Go to Item 6 below.

	Discharge frequency		Flow					
Operations contributing flow (list)	Batches	s Duration	Flow rate per day		Total volume per	Units	Duration	
	per year	per batch	LTA	Daily Max	discharge		(Days)	

6. Water Supply Source (indicate all that apply)

	Name or owner of water supply source	Volume or flow rate	Uni)	
Municipal Supply			MGD	GPD	GPM
Private Surface Water Source			MGD	GPD	GPM
Private Supply Weil			MGD	GPD	GPM
Other (specify)			MGD	GPD	GPM

7. Outfall configuration: (Surface water discharges only)

A. Where is the discharge point located with respect to the receiving water?

In the streambank:	X	
In the stream:		
Within a lake or ponded water:		
Within an estuary:		Attach Supplement C, MIXING ZONE REQUIREMENTS FOR DISCHARGES TO ESTUARIES.
Discharge is equipped with diffuser:		Attach description, including configuration and plan drawing of diffuser, if used.

B. If located in a stream, approximately what percentage of stream width from shore is the discharge point located?

C. If located in a stream, describe the stream geometry in the general vicinity of the discharge point, under low flow conditions:

Stream width	Stream width Stream depth		Are the results of a mixing/diffusion study attached?
Feet	Feet	Feet/Sec	

Page 2

YES NO Form NY-2C (12/98) - Section II Forms

INDUSTRIAL APPLICATION FORM NY-2C Section II - Outfall Information

	Outfall No.:
Facility Name:	SPDES Number:
Norlite Corporation	NY-0004880

8. Thermal Discharge Criteria

Is your facility one of the applicable types of facilities listed in the instructions, and does the temperature of this discharge exceed the receiving water temperature by greater than three (3) degrees Fahrenheit?

YES - Complete the following table. Х

information on the intake and discharge configuration of this outfail is attached.

NO - Go to Item 9. below.

Discharge Temperature, deg. F		Duration of maximum		Dates of maximum						
Average	Maximum		discharge temperature		y		~		Maximum flow rate	Discharge configuration (e.g. subsurface, surface, effluent diffuser, diffusion well, etc.)
change in	change in		tempe	aure	temperature		now rate	eniuent ainuser, ainusion weit, etc.)		
temperature	temperature	Maximum	hours per	days per			[
(delta T)	(delta T)	temperature	day	year	From	То	MGD			
			1							

9. Are any water treament chemicals or additives that are used by your facility subsequently discharged through this outfall?

YES - Complete the following table and complete pages 1 of 3 and 2 of 3 of Form WTCFX for each water treatment chemical listed.

X NO - Go to Item 10, below.

Manufacturer	WTC trade name	Manufacturer	WTC trade name

Has any biological test for acute or chronic toxicity been performed on this outfall or on the receiving 10. water in relation to this outfall in the past three (3) years?

YES - Complete the following table.

NO - Go to item 11. on the following page.

Water tested	Purpose of test	Type of test	Chronic	Subject species	Testing	date(s)	Submitted?
			or Acute?	·	Start	Finish	(Date)
							i
					1		
	· · · · · · · · · · · · · · · · · · ·						
	· · · · · · · · · · · · · · · · · · ·		-		+		
· · · · · · · · · · · · · · · · · · ·			_		+		
							1
		1					

Form NY-2C (12/98) - Section II Forms

INDUSTRIAL APPLICATION FORM NY-2C

Section II - Outfall Information

	Outfall No.:
Facility Name:	SPDES Number:
Norlite Corporation	NY-0004880

11. Is the discharge from this outfail treated to remove process wastes, water treatment additives, or other pollutants?

NO - Go to Item 12 below.

Treatment process	Treatment Code(s)	Treatment used for the removal of:	Design Flow Rate (include units)
Sedimentation (skimming)	<u>1 U</u>	Floating oils, settleable solids	5,000 gallons/hr
Sorption	_ 1 X	Oils	5,000 gallons/hr
Carbon Adsorption	_2 A	Oils	5,000 gallons/hr
		-	e.

12. Does this facility have either a compliance agreement with a regulating agency, or have planned changes in production, which will materially alter the quantity and/or quality of the discharge from this outfall?

YES - Complete the following table.

х

NO - Go to Section III on the following page.

Description of project			Subject to Condi	tion or Agreement in	Change due to	Completion Date(s)			
				existing permit or	consent order? (List)	production increase?	Required	Projected	
 •									
							•		
				<u> </u>					
			· · · · · · · · · · · · · · · · · · ·						
 						· · · · · · · · · · · · · · · · · · ·		<u> </u>	
)	

This completes Section II of the SPDES Industrial Application Form NY-2C. Section I, which requires general information regarding your facility, and Section III, which requires sampling information for each of the outfalls at your facility, must also be completed and submitted with this application.

INDUSTRIAL APPLICATION FORM NY-2C Section III - Sampling Information

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Facility Name: Norlite Corporat	spdes SPDES	No.: NY-0004880	Outfall No.: 008
NOTITCE COLPOIDE	31011		

1. Sampling Information - Conventional Parameters

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Provide the analytical results of at least one analysis for every pollutant in this table. If this outfall is subject to a waiver as listed in Table 5 of the instructions for one or more of the parameters listed below, provide the results for those parameters which are required for this type of outfall.

PLEASE PRINT OR TYPE IN TH		Section of the sectio	2	Effluent data		Statute State	C	Uni	ts	Inte	ike uata (optio	
Pollutant	e, Maximum	n daily value	b, Maximum	30 day value	c. Long lerr	n average	d. Number of	a. Concentration	b, Mass		average value	b. Number o analyses
	1. Concentration	2. Mass	1. Concentration	2. Mass	1. Concentration	2. Mass	analyses	945	一日に	1. Concentration	2. Mass	analyses
a. Biochemical Oxygen Demand, 5 day (BOD)												
b. Chemical Oxygen Demand (COD)												
c, Total Suspended Solids (TSS)	81/25				36/25			mg/1				3
d. Total Dissolved Solids (TDS)	81/500				36/500			mg/1				3
e. Oil & Grease	62/15				28/15			mg/1				3
f. Chlorine, Total Residual (TRC)												
g. Total Organic Nitrogen (TON)								()				
h. Ammonia (as N)												
i. Flow	Value		Value		Value					Value		
j. Temperature, winter	Value	-	Value		Value			- and a start		Value		
k. Temperature, summer	Value		Value		Value		1	State State		Value		-
1. pH	Minimum	Maximum	Minimum	Maximum	No.					Minimum	Maximum	

*NOTE: ENTRIES CONSIST OF INFLUENT CONCENTRATION CONFIRMED BY GRAB TESTING/ESTIMATED EFFLUENT CONCENTRATION. 2. Sampling Information - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

a. Primary Industries:	i. Does the discharge from this outfall contain process wastewater?	-	Yes - Go to Item ii. below. No - Go to Item b. below.
	ii. Indicate which GC/MS fractions have been tested for: Volatiles:		Acid: Base/Neutral: Pesticide:
b. All applicants:	i. Do you know or have reason to believe that any of the pollutants listed in Tables 6, 7, or 8 of the instructions are present in the discharge from this outfall?	x	Yes - Concentration and mass data attached. No - Go to Item II. below.
	II. Do you know or have reason to believe that any of the pollutants listed in Table 9 or Table 10 of the instructions, or any other toxic, harmful, or injurious chemical substances not listed in Tables 6-10, are present in the discharge from this outfall?	X	Yes - Source or reason for presence in discharge attached Yes - Quantitative or qualitative data attached No

INDUSTRIAL APPLICAITON FORM NY - 2C

Section III - Sampling Information

Facility Name:	SPDES No.: NY-0004880	Outfall No.: 008
Norlite Corporation	11-0004880	000

3. Projected Effluent Quality - Priority Pollutants, Toxic Pollutants, and Hazardous Substances

Provide analytical results of at least one analysis for each pollutant that you know or have reason to believe is present in this discharge, as well as for any GC/MS fractions and metals required to be sampled from Section III Forms, Item 2.a on the preceding page.

174 - 194 - 1	and mass data (if available) and/or an expla	St 232	-	1 A.	Effluent D	ata	1.1.1.1	40	Un	its	Intake data (optional)		Influent Data	Believed
	1	a. Maximum		value (if avai			n average llable)				a. Long term average value			present, no sampling results
- 16 -	Pollutant and CAS Number	(1)Concentr ation	(2)Mass	(1)Concentr ation	(2)Mass	(1)Concentr ation	(2)Mass	d. Number of analysis	a Concent ration	b. Mass	(1)Concentration	(2)Mass	d.Number of analysis	available (see disclaimer)
CAS Number:	1,1,1-trichloroethane 71-55-6										<5 ug/l		1	
CAS Number:	1,1,2-trichloro-1,2,2-trifluoroethane 76-13-1													x
CAS Number:	1,1,2-trichloroethane 79-00-5										<5 ug/1		1	
CAS Number:	1,1-dichloroethylene 75-35-4													x
CAS Number:	1,1,2-trichloroethane 79-00-5													x
CAS Number:					1				-	_		-		x
CAS Number.	1,1-diphenyl 92-52-4 1,2-dichloroethane													X
CAS Number:	107-06-2 1,2-dichlorobenzene									-	<5 ug/l		1	
CAS Number:	1,2-dichloropropane										<5 ug/l		1	
CAS Number:	1,2-dichloroethylene 540-59-0													x
CAS Number:	1,3,5-trimethylbenzene 108-67-8 1,2,4-trimethylbenzene		-							-				x
CAS Number:											-	-		X
CAS Number:	1,3-dichlorobenzene										<10 ug/l		1	X
CAS Number:	1,4-dioxane													x

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INDUSTRIAL APPLICAITON FORM NY - 2C Section III - Sampling Information

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analysis for tha	and CAS number for each pollutant that you kn at pollutant, and determine the mass discharge and mass data (if available) and/or an explanal	based on the	flow rate repo	rted in Item 1.i	. For each	pllutant lister	from Table 9), or any other to	xic pollutant	not listed	in Tables 6-	10, you mu	st provide	Page: 2 of 12
CONCONTRALION			en e		Effluent D	Data -	and a second	a state of the	Un	its	Intako data	(optional)	Influent Data	Believed
An			n daiy value	b. Maximun value (if ava	iløble)	lable) value (if avai				1.20	a. Long term average value			present, no sampling results
1. State 1.		(1)Concent		(1)Concentr		(1)Concentr ation	(2)Mass	d. Number of analysis	a.Concent ration	b. Mass	(1)Concent ation	(2)Mass	d.Number of	available (see disclaimer)
	Pollutant and CAS Number 1,4-dichlorobenzene	ation	(2)Mass	ation	(2)Mass	anon	(c)Mess	analysia	Tadou	D. 1910.35	duon	(Z)WILOG	analydio	Liburgitrion
CAS Number:	1,4-dichiorobenzene 106-46-7					1		1		1.00	<10 ug/l		1	1
GAS NUMBEL	2-(methyl-4-chlorophenoxy)proprinic acid	-		-	-						1			
CAS Number:						/								X
ONO HUIDOI.	1-naphthylamine		1			-								
CAS Number:		1							1		<10 ug/l		1	
one manisen	2,4,5-trichlorophenol			10.00			1.000							
CAS Number:		24.1			_				1-8-5-51		<10 ug/l		1	
	2,4,5-TP Silvex										1			
CAS Number:	93-72-1	-		-							<1 ug/l		1	-
	2,4-dichlorophenol	1									1.1.1.1.1			
CAS Number:	120-83-2	-			-	-		-		-	<10 ug/1		1	
	2,4,6-trichlorophenol					1. Contract 1.				1000				
CAS Number:		-	-								<10 ug/l		1	
	2,4-dimethylphenol									100	10		1	
CAS Number:	105-67-9										<10 ug/l			
	2,4-dichlorophenoxyacetic acid (2,4-D)				1 m 1					1.00	1.1	(1	x
CAS Number:	94-/5-/	-	-		-									
0101	2-chlorophenol				1.1					1	<10 ug/l		1	
CAS Number:									-		ine agr			1.000
CAC Number	2,6-dichlorophenol			1.0							<10 ug/l		1	
CAS Number:	2-nitropropane	+	1	1		-								
CAS Number:				1							-	-		X
CAS Number.	2-methyl-pyridine	-		1				1						
CAS Number:														X
CAS Multibel.	3,6-dichloro-o-anisic acid (dicamba)			1						1-1-1-1	1			1
CAS Number:	1918-00-9				1.1							-		X
one nombon.	3,3'-dichlorobenzidine								1		(
CAS Number:		-		1	he to see		h				<20 ug/l		1	
or io manicali	4-chloro-o-toluidine, hypochloride													
CAS Number:		11.000	1.000	1	1 mar 1					-				X
1. mar	4,4'methylene bis-(2-chloro-aniline)			1		1							1	
CAS Number:	101-14-4				1.								-	X
	acenaphthene								1	1.000	in the second	1.00	al angered	
CAS Number:	83-32-9	1				-	-			-	<10 ug/	-	1	
	4-isopropyltoluene				-	1			1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-					v
CAS Number:		-	-							-	-			X
	acetaldehyde			1 million 1							1.0		· · · · · · · · · · · · · · · · · · ·	x
CAS Number,	75-07-0	-					_							^
	acenaphthylene								-	100	<10 ug/l	· · · ·	1	
CAS Number:	208-96-8		-					-			Kito ugn			

Page 2

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INDUSTRIAL APPLICAITON FORM NY - 2C Section III - Sampling Information

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analysis for the	and CAS number for each pollutant that your to all the mass discharged by the mass discharg	arge based on the	low rate repo	rted in Item 1.i	. For each	pllutant lister	from Table 9	9, or any other to	ixic pollulant	not listed	in Tables 8-	10, you mu	st provide	Page:
concentration a	and mass date (if available) and/or an exp	lanation for their pro	esence in the		Effluent D		is table as ne	eessary for each	Un Un	its	lintake data	(entional)	Influent Data	Believed
		a. Maximur (1)Concent	n daiy value	b. Maximun value (if ava (1)Concentr	n 30 day ilable)	c. Long tem value (if ava (1)Concentr	lable)	d. Number of	a.Concent		a. Long tem value (1)Concenti	n average	d.Number of	present, no sampling results available (see
	Pollutant and GAS Number	ation	(2)Mass	ation	(2)Mass	ation	(2)Mass	analysis	ration	b. Mass	ation	(2)Mass	analysis	disclaimer)
	acetic anhydride				1	1		1.1.1						x
CAS Number:	108-24-7 acetic acid		-		-					-				
CAS Number:						100.00			1					x
GAS NUMBER.	acetonitrile	-												
CAS Number:											<100 ug/l		1	-
Crito Handen	acelone		1								1222		2	
CAS Number:										-	<10 ug/l		1	
	acetyl chloride										1.00			
CAS Number:			-											X
	acetopenone										<10 ug/l	1.00	1	1.
CAS Number:									-		<10 ug/i			
	acrylic acid	1.0			1000									x
CAS Number:	acrylamide		-		-						-	-	1	
CAS Number:		-				2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		4					1	x
CAS Multiber.	allyl alcohol		1	1		1		1.11		1				
CAS Number:				1						-	1			X
	acrylonitrile					1				-	1			
CAS Number:											<25 ug/l		1	
	ammonia		-							1.00	1	-		
CAS Number:			1		-		-					-		X
Long to the	aluminum		1000							-				x
CAS Number:					_				-					^^
	ammonium thiosulfate		1.		1.2.3	1 - U		Sec. 27. 194			· · · · · · · ·			x
CAS Number:			-		-		-		-		-			
CAS Number:	ammonium hydroxide 1336-21-6													x
CAS Number.	aniline		-							1				
CAS Number:				10000	1								-	x
	amyl acetate									1	1	1		
CAS Number:	628-63-7					· · · · · · · · · · · · · · · · · · ·			l l			I		x
	anthracene					A			1	1.000	10		4	
CAS Number:				-							<10 ug/l	-		
	antimony			1.000						1.000	<0.06 mg/l		4	
CAS Number:											toto night			
CAS Number:	avermectin 71751-41-2					· · · · · · · · · · · · · · · · · · ·								x
CAS Number:	arsenic			-				1						
CAS Number:								1			<0.005 mg/l		1	
or to realized.	benzal chloride			-				-					1000 A	
CAS Number:	The second se			· · · · ·						-				X

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INDUSTRIAL APPLICAITON FORM NY - 2C Section III - Sampling Information

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concentration a	it pollutant, and determine the mass discher and mass date (if available) and/or an expla	anation for their pre	sence in the	discharge. Ma	ake as mai	ny copies of th	his table as no	ecessary for each	n outfall.	Statistic.	-Value and the		Contraction of the second s	Page: <u>4</u> of 12
		a. Maximun		b. Maximun yalue (if ava	ilable)	c. Long ten value (if ava	llable)		Un a.Concent	(IS	a. Long terr value	average	Influent Data	Believed present, no sampling results available (see
and the second	Pollutant and CAS Number	(1)Concentration	(2)Mass	(1)Concentr ation	(2)Mass	(1)Concentr ation	(2)Mass	d. Number of analysis		b. Mass	ation	(2)Mass		disclaimer)
	barium							1		1	a company			
CAS Number:				1							0.06 mg/l		1	
	benzene						the state of the s		-		<5 ug/l		1	2 - L
CAS Number:						-			-		<5 úg/i			
CAC Alumbar	benzaldehyde	C 11									(CON 1)		1	x
CAS Number:	benzo(a)pyrene	-			1									100
CAS Number:					2						<10 ug/l		1	
on o nomout.	benzidine			-		1					10000			
CAS Number:	92-87-5			-						-	<80 ug/l		1	
	benzo(k)fluoranthene													
CAS Number:						-					<10 ug/l	_	1	
	benzo(ghi)perylene	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			100			1.1.1.1.1.1.1		-	10.00		1	
CAS Number:				Land and						-	<10 ug/l			
	benzyl alcohol									1	<10 ug/1		1	
CAS Number:			-						-	-	sib ugn			
CAS Number:	benzoic acid 65-85-0				(C 2								· · · · · · · · · · · · · · · · · · ·	x
GAS NUMber.	bis(2-chloroethyl)ether		-										P	The second second
CAS Number:					· · · · · · · · · · · · · · · · · · ·	1.000			_		<10 ug/l		1	
GAS Number.	beryllium			-										
CAS Number:						· · · · · · · · · · · · · · · · · · ·					<0.005 mg/l		1	
on to manno an	bornyl								-	1				
CAS Number:							-							X
	benzotriazole													
CAS Number:	95-14-7	-												X
Lucies -	butoxypropanol				1000		0.00				1			x
CAS Number:					-		-						-	
CAC N	bromoform	- 1 C				1.0					<5 ug/l		1	
CAS Number:				-	-									
CAS Number:	butylamine											1. A.		x
UND MULLIOUT.	butyl acetate									-				
CAS Number:				-			1				1	-		x
	butylbenzyl phthalate	-												
CAS Number:											<10 ug/l		1	
	cadmium		-			1				-	Company in			
CAS Number:	7440-43-9			1					-		<0.005 mg/l		1	
	carbamate													x
CAS Number:			-	-										^
	captan													v

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analysis for tha	it pollutant, and determine the mass discher and mass data (if available) and/or an expl	arge based on the	tiow rate repo	discharge. Ma	ke as mar	v copies of th	is table as ne	acessary for eacl	n outfall.		10 - Al		-	Page: 5 of 12
Concontration			27-73		Effluent D	ata	a series	10	Un	its	Intako data	optional)	Influent Data	Believed
		a. Maximu	m daiy value	b. Maximun value (if ava		c. Long term value (if avai	lable)				a. Long term value	average		present, no sampling results
	Pollutant and CAS Number	(1)Concen ation	tr (2)Mass	(1)Concentr ation	(2)Mass	(1)Concentr ation	(2)Mass	d. Number of analysis	a.Concent ration	b, Mass	(1)Concentr ation	(2)Mass	d.Number of analysis	available (see disclaimer)
	carbon disulfide	and another	(L)Wabb	Buroti	(c)masse		(-)					1		
CAS Number:					A		-				<5 ug/l		1	
one maneon	carbaryl					1								
CAS Number:			1							_	-		_	X
	chlordane		-					19-10-10-0			05.00		1	
CAS Number:									-	-	<0.5 ug/l	-	-	
15 Sec 2 a	carbon tetrachloride							1			<5 ug/l		1	1.
CAS Number:			-				-				<0 ugn		in the second	
OAC H	chlorobenzene										<5 ug/l		1	
CAS Number:	chlorine		-	-										
CAS Number:			1					(1	1.		X
CAS Number.	chloromethyl methyl ether					1	-							
CAS Number:														X
CAD Humbon	chromic acid			-			1.00	1.0.0			1			
CAS Number:			A					the second						X
	chloroform			1.1.1.1		-							1	1
CAS Number:	67-66-3		-								<5 ug/l	-		
	chromium			1.000							<0.005 mg/l		1	
CAS Number:		-		-						-	<0.005 mg/i			
Share and	chrysene			-							<10 ug/l		1	
CAS Number:			-	-				-		-	Cito agri			
	cobalt			1	1.2						<0.05 mg/l		1	
CAS Number:				-										S
CAS Number:	copper			0.000	1. I. I.						<0.05 mg/l		1	
CAS NUMBER.	creosote				C							1		
CAS Number:			-	1.00		· · · · · · · · · · · · · · · · · · ·								X
CAS Humber	cresol			1						-	1			
CAS Number:	108-39-4	1	1			a								X
	cumene					1			1.00		() d			x
CAS Number:	98-82-8		-					-						^
	cyanide					1			10 C				The second second	x
CAS Number:									-	-		-		
	cyclohexane		The second secon							h				x
CAS Number:	110-82-7						-			-	1			
CAS Number.	cyclohexanol					1. N. N.								X
GAS Number.	cyclohexanone				-	1000					1			
CAS Number:	108-94-1			1.	· · ·									X
und rander.	diazinon				-									
CAS Number:		-												X

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concentration a	it pollutant, and determine the mass disch and mass date (if available) and/or an exp	lanation for their pre	sence in the	discharge. Ma	ake as mai	ny copies of th	is table as ne	ecessary for eac	n outtail.				and the second	<u>6</u> of 12
		a. Maximum	n daiy value	b. Maximum value (if ava	Effluent D n.30 day ilable)	c. Long term	average lable)		Un	its .	a. Long term value	n average	d Number of	Believed present, no sampling results available (see
	王子 王子子	(1)Concenti		(1)Concentr	(2)Mass	(1)Concentr	(2)Mass	d. Number of analysis	a.Concent ration	b. Mass	(1)Concentr ation	(2)Mass	The state of the second s	disclaimer)
	Pollutant and CAS Number	ation	(2)Mass	ation	(Z)Mass		(c)iviasa	andiyara	Tauyi	OT THE CO	cutton.	(C)/HILLO		
CAC Mumber	dibenzo(ah)anthracene									10000	<10 ug/l		1	
CAS Number:	dibenzofuran	-	1.							No.				
CAS Number:						D					<10 ug/		1	-
CAD NUMBER.	dibutyl phthalate													
CAS Number:														X
and realized.	dichlorobenzene		1.5				-	1						
CAS Number:														X
	diepoxybutane								1		1 7	1.1.1.1.1		x
CAS Number:												-		~
	diethyl phthlate													x
CAS Number:	84-66-2		-	1			-							^
12.0	diethylamine		1			1997 - A				-		1.000		x
CAS Number:														
Land and	diethylene glycol										V			x
CAS Number:										-		-		
	diethylhexyl phthlate				1.1.1							1		x
CAS Number:									-			-		
	diisopropylether							1.				1		X
CAS Number:				-					-					
	dimethyl formamide										· · · · · · · · · · · · · · · · · · ·			X
CAS Number:	68-12-2			-					1					
	dimethyl phthlate										<10 ug/l		1	
CAS Number:	dimethyl sulfate			-										
CAS Number:								1 million		-			1	Х
SAS Number.	dimethylamine		-		-	1						1		
CAS Number:			-											X
CAG Humber.	dimethyldichlorosilane		-											
CAS Number:		-				1.1			-	-				X
ond Hamber.	dinitrotoluene					State of the second sec								
CAS Number:														X
	di-n-octyl phthalate		1.1				-					1		1.1
CAS Number:						1 martine					<10 ug/l	-	1	
	dinoseb		and the second second								1.110		4	
CAS Number:	88-85-7									-	<1 ug/l			
1.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2	diquat dibromide					1				100		100		x
CAS Number:	85-00-7						-			-				
	dodecylbenzesulfonic acid									1				x
CAS Number:			-							-				
	ethanol		1	1										v

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analysis for tha	and CAS number for each pollutant that yo a pollutant, and determine the mass dische and mass data (If available) and/or an expl	arge based on the l	llow rate repo	rted in Item 1.i	. For each	pllutant lister	from Table !	9, or any other to	xic pollutant	not listed	In Tables 6-	10, you mu	st provide	Page:
			The Street		Effluent D		70. 11 1 9		Un	its	Intako dala	(optional)	Influent Data	Believed
		a. Maximur (1)Concent	n daly value	b. Maximum value (if ava (1)Concentr	lable)	c. Long tem value (if ava (1)Concentr	lable)	d. Number of	a.Concent		a. Long terr value (1)Concenti	1 - A	d.Number of	present, rio sampling results available (see
	Pollutant and CAS Number	ation	(2)Mass	ation	(2)Mass		(2)Mass	analysis	ration	b. Mass	ation		analysis	disclaimer)
	ether													
CAS Number:	60-29-7				the second second									×
	ethyl acetate	1				Q*			-			-		
CAS Number:	141-78-6	-				1								X
	ethyl acrylate							and the second s	No.Co.					x
CAS Number:				1						-		-		^
	ethyl ether			1.000										x
CAS Number:	60-29-7			-						-		-		
	ethyl methacrylate		1	in a second second					-		<10 ug/l		1	
CAS Number:		-	-								sib ugit	-	-	
CACALUMBAR	ethylbenzene 100-41-4		-		1.1.1	1.0					<5 ug/l		1	
CAS Number:			-		-		-	-			1			
CAS Number:	ethylene glycol 107-21-1							1		· · · · · ·			1	x
CAS Number.	ethylene glycol monoethyl ether			-										
CAS Number:		1.0				1		1						X
ONO HUMber.	ethylene oxide			1		2				-				
CAS Number:			1.000	1.		-		1						X
	ferbam				-			1			1			
CAS Number:	14484-64-1	and the second second						1				-		x
1.1.1.1.1.1.1.1	fluoranthene	1	1		1					1.1	Sec. 14			
CAS Number:	206-44-0			1				-	-		<10 ug/l	-	1	
	fluorene			And Street Street						10.00	10.00	N	1	
CAS Number:										-	<10 ug/l			
ing the last	formaldehyde				1.100									x
CAS Number:			-	-		-								
CAS Number:	furan	and the second second		1	1.1						1 mar 1			x
CAS Number:	furfural		-					-	-			1		
CAS Number:	Construction and Constr			K		1		the second s						x
CAS HUIDEL	guthion			1	1							· · · · · ·		
CAS Number:				1 million (_							Х
an our contractor	heptachlor			1		1					1200			
CAS Number:											<.05 ug/l		1	
10	heptane		-			1								x
CAS Number:					-				-	-		-		
and the second	hexachlorobenzene					1 million (1997)			has a second		<10 ug/l			
CAS Number:		-		-						-				
	hexachlorobutadiene				And and						<10 ug/l	1.000	1	
CAS Number:		-		-				1			sio ugn	-		
CAS Number:	hexachloroethane				1.1.1			1.0.0		1.000	<10 ug/l		1	

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analysis for tha	at pollutant, and determine the mass disc and mass data (if available) and/or an ex	charge based on the	flow rate report	rted in Item 1.i discharge, Mr	. For each	pllutant listed	from Table 8	, or any other to ecessary for each	xic pollutant	not listed	IN Tables 6-	iu, you mu	at provide	Page: 8 of 12
Concentration a		providence for allog pl	0001100 11 010	and an inter gran this	Effluent C				Un	its	Intako data	(optional)	Influent Data	Believed
		a. Maximu (1)Concen	m daiy value	b. Maximurr value (if avai (1)Concentr	ilable)	c. Long term value (if avai (1)Concentr	lable)	d. Number of	a.Concent		a. Long tem value (1)Concentr	1	d.Number of	present, no sampling results available (see
	Pollutant and CAS Number	ation	(2)Mass	ation	(2)Mass		(2)Mass	analysis	ration	b. Mass	ation	(2)Mass	analysis	disclaimer)
	hexane		T											x
CAS Number:				-	-	-								<u>^</u>
CAS Number:	hydrazine		1											x
CAS Number:	hydrochloric acid		1	+				1						
CAS Number:													i and	X
	hydroquinone													~
CAS Number:	123-31-9									-				X
	iodine													x
CAS Number:					-							-		-
	isobutanol					1				1	<100 ug/l		1	
CAS Number:	isophorone			-	-					_	the say			1
CAS Number:					1.				1		<10 ug/l		1	
ONO Humber.	isopropylbenzene													
CAS Number:														X
	isopropanol	Contraction of the second	1					1		1				x
CAS Number:												-		^
Colorado - N. C.	lanthanum nitrate	and the second sec						1.00		11.2		4 <u></u> 1)		x
CAS Number:			1	-						-			-	
CAS Number:	lead		1			-					<0.005 mg/l		1	A CONTRACTOR OF
GAS Number.	malathion		1											
CAS Number:	Constraints of a literation of the literation of				10 M						S			X
one number.	maleic hydrazide		1											
CAS Number:														X
	m-cresol				-						10		1	
CAS Number:									-		<10 ug/l		1	
	mercury				1					1.000	<0.0004 mg/l		1	
CAS Number:			-	-							soloco ringr			
CAS Number:	methacrylonitrile										<10 ug/l	_	1	
GAG Number.	methanethiol		1										12.5	
CAS Number:										-			-	x
	methanol					-						1 - 1		~
CAS Number:	67-56-1		-											X
and the second	methoxychlor			1.000						12.1	<0.5 ug/l	1.00	1	1000
CAS Number:				-						-	KU.O UYI		-	-
	methyl acetate		1		10.0				1.1	1				x
CAS Number:	79-20-9 methyl chlorocarbonate		1							-				
CAS Number:	-		-											х

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analysis for that	and CAS number for each pollutant that yo at pollutant, and determine the mass disch and mass data (if available) and/or an expl	aros based on the f	low rate repo	rted in Item 1.1	For each	pllutant listed	from Table 9	, or any other to	xic pollutant	not listed	in Tables 6-	10. you mu	st provide	Page: 9 of 12
concentration a	and mass data (ii available) and of all exp	anation to blen pre	actice in the	Claci Largo. Ini	Effluent C		id capito da mo	icould fin due.	Un	its	Intako dala	(optional)	Influent Data	Believed
		a, Maximun (1)Concenti		b. Maximum value (if avai (1)Concentr	n 30 day Ilable)	c. Long terr value (if avai (1)Concentr		d. Number of	a.Concent		a. Long tern value (1)Concentr	n average	d.Number of	present, no sampling results available (see
	Pollutant and CAS Number	ation	(2)Mass	ation	(2)Mass		(2)Mass	analysis	ration	b. Mass	ation	(2)Mass	analysis	disclaimer)
	methyl ethyl ketone									1	1			
CAS Number:									-					X
	methyl iodide											C		x
CAS Number:												-		1
CAO Mumber	methyl isobutyl ketone	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1			1.0		1 m m						x
CAS Number:	methyl methacrylate		-		-									
CAS Number:				A	- C.			100 C 100 C			<10 ug/l		1	
GAS Number.	methyl tertiary butyl ether		-						1	-	ing sign			
CAS Number:														x
CAS Mullioen.	methylcyclopentane													
CAS Number:													line and the	х
oridification	methylene chloride	and the second		1										
CAS Number:					· · · · · · · ·					la martina	-			х
	methylol acryamide							1.1						
CAS Number:	924-42-5											-		x
	methyltrichlorosilane						-		1					
CAS Number:									-					X
	naphthalene				1.1.1.1					1.1.1				
CAS Number:	91-20-3		-	-							<10 ug/l	10000	1	
	n-butane	1.1									1			x
CAS Number:	106-97-8			-								-		
	n-butanol								1000					x
CAS Number:				-						-				
	n-butyl phthalate	1.00			1.000									x
CAS Number:	nickel				_									
CAS Number:				1				1	1.1.1	1.1	<0.05 mg/l		1	1
LAS NUMBER.	nitrobenzene				-	-						-		
CAS Number:				h						· · · · · ·	<10 ug/l		1	1
ond number.	n-methyl-2-pyrrolidone						-				1 1 1 1 1 1	-		
CAS Number:		-		1.5.5										X
	o-cresol			1	-			1						
CAS Number:				0							<10 ug/1		1	
	oryzalin			1				1.						
CAS Number:	19044-88-3				-		-			1000		-		X
	o-toluidine										10.00			
CAS Number:	95-53-4										<10 ug/l		1	
	o-xylene	1.1				_								x
CAS Number:	95-47-6						_			-	-			
	palladium													×

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Product - S		1 States		in deministration	Effluent D	ata	a the set		Ur	its	Intako data	(optional)	Influent Data	Believed
	Pollutant and CAS Number	a. Maximum (1)Concentr ation		b. Maximun value (if ava (1)Concentr ation	ilable)	c. Long tem value (if ava (1)Concentr ation	ilable)	d. Number of analysis	a.Concent	b. Mass	a. Long tem value (1)Concentr ation		d.Number of analysis	present, no sampling results available (see disclaimer)
CARNING	paraldehyde			1							-			
CAS Number:	123-63-7 PCB's									-				X
CAS Number:						-		1.			.065 ug/l		1	
	p-cresol				1							-		
CAS Number:										-				X
CAC Mumber	pentachlorophenol										count			
CAS Number:	phenanthrene	-			-			1		-	<50 ug/		1	
CAS Number:				1							<10 ug/l			
CAS Number.	phenol										<10 ug/i		1	
CAS Number:					(<10 ug/l		1	
C10.11	phenyl ether (diphenyl oxide)													
CAS Number:	101-84-8 phosphoric acid		-											X
CAS Number:			1.1.1							1	1.000	1.00		x
	p-nitrophenol	1								-				
CAS Number:	100-02-7		()		-				1				1	X
	propargyl alcohol	1000		1	1.00									
CAS Number:	107-19-7 propionitrile									-	-			X
CAS Number:										S	<100 ug/l		1	
	propylene glycol										inde ugr			
CAS Number:								S						Х
C40.41	propylene glycol monomethyl ether			11				LA CLA	1	1				
CAS Number:	p-xylene											-		X
CAS Number:	106-42-3					1.00					C			x
	pyrene											1		
CAS Number:	129-00-0										<10 ug/l	_	1	
CAC Mumber	pyridine													v
CAS Number:	guatemary ammonium compounds													X
CAS Number:	quaternary ammonium compounds												1	x
	sec-butylbenzene												1000	
CAS Number:	135-98-8					1				1				x
AC Number	selenium 7782-49-2										-0.005 mm/		1	
CAS Number:	7782-49-2 sevin										<0.005 mg/l		1	
CAS Number:	63-25-2				(-2)					1		1000		x
	silver													
CAS Number:	7440-22-4							La marte de la composition de			<0.02 mg/l		1	

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analysis for tha	and CAS number for each pollutant that you kno t pollutant, and determine the mass discharge b and mass data (if available) and/or an explanatio	based on the f	low rate repoi	ted in Item 1.1	. For each	pllutant listed	from Table 9	9, or any other to	xic pollutant	not listed	in Tables 6-1	0, you mu	st provide	Page: 11 of 12
	ind mass data (if available) and/or an explanation	on for their pre	sence in the	discharge. Ma	Effluent D	ly copies of th	IS TADIO AS THE	acessary for each	Un Un	its	liniako data	(optional)	Influent Data	Believed
		a. Maximun (1)Concentr	n daly value	b. Maximum value (if ava (1)Concentr	n 30 day ilable)	c. Long term value (if avai (1)Concentr	lable)	d. Number of	a.Concent		a. Long term value (1)Concentr	n average	d.Number of	present, no sampling results available (see
	Pollutant and CAS Number	ation	(2)Mass	ation	(2)Mass	ation	(2)Mass	analysis	ration	b. Mass	ation	(2)Mass	analysis	disclaimer)
Salarda una	sodium hydroxide			0.000				1.	CT					x
CAS Number:		-			-				-					
CHC Humber	styrene	-	1.000		1			1			<5 ug/l	1.00	1	
CAS Number:	tert-butylbenzene		1	1										
CAS Number:			1	1										X
CAS NUMBER.	tetrachlorobenzene	1												
CAS Number:														X
One nomon.	tetrachloroethane	1									1000			
CAS Number:		-									<5 ug/l		1	
1	tetrachloroethylene				1									x
CAS Number:	127-18-4	1	-							-		-		
	tetrahydrofuran							10.000		11.1	1			×
CAS Number:		1			-				-	-		-		-
	thallium				1.00	1.1				1	<0.01 mg/l	1	1	
CAS Number:		1				-			-		CO.OT Mg/			
	toluene	1	-		1. Sec. 1.	an		1.1	5	-	<5 ug/l		1	11 mar 11
CAS Number:		-			-								-	
	toluene diisocyanate	1	1		1.1.21	1.000								X
CAS Number:	toluenediamine	-	-											
CAS Number:														X
CAS Number.	trichlorobenzene	1								1	1		1	
CAS Number	120-82-1 /108-70-3 /87-61-6													X
ono number.	trichloroethane	1.		1.										
CAS Number:	71-55-6/79-00-5				1	_					<5 ug/l		1	
	trichloroethylene			1		1			-	1.00		1.000		x
CAS Number:	79-01-6		1						-					<u>^</u>
	trichlorofluromethane										<5 ug/l		- T	100 million (1997)
CAS Number:	75-69-4	-									1<5 Ug/i	-		
	trichloromethylbenzene (benzoic trichloride)	1		6						1.1				X
CAS Number:		-									1	-	1	
	trichlorotrifluromethane	1			the local distance	· · · · · · · · · · · · · · · · · · ·				1.0				X
CAS Number:				-	1000	-						-		
CAS Number:	triethylamine									1				X
GAS NUMBER:	triethylchlorosilane	-	1			1					1			
CAS Number:				-										X
Ser ing Constitution	trimethylbenzene	1												x
CAS Number:										-	-			×
	trimethylamine					1								x
CAS Number:	75-50-3		-				-	the second se			1			^

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INDUSTRIAL APPLICAITON FORM NY - 2C Section III - Sampling Information

analysis for tha	and CAS number for each pollutant that y at pollutant, and determine the mass disc and mass data (if available) and/or an ex	harge based on the I	low rate repo	rted in Item 1.i	. For each	n pllutant listed	from Table	9, or any other to	ixic pollutani	les 6, 7, o I not listed	r 8, provide th I in Tables 6-1	e results o 0, you mu	st provide	Page: 12 of 12
concentration a	and mass data (ir available) and of an ex	planation for more pro		uldentaiger in	Effluent I		o - /-	1	Ur Ur	nits	Intake data	(optional)	Influent Data	Believed
		a, Maximur	n daiy value	b. Maximun value (if ava	CONTRACT SALES AND	c. Long terrr value (if avai					a, Long term value		1355	present, no sampling results
	Pollutant and CAS Number	(1)Concent ation	(2)Mass	(1)Concentr ation	(2)Mass	(1)Concentr ation	(2)Mass	d. Number of analysis		b. Mass	(1)Concentr ation	(2)Mass	d.Number of analysis	available (see disclaimer)
CAS Number:	vanadium										<0.05 mg/l		1	
CAS Number:	vinyl chloride													x
CAS Number:	xylene													x
CAS Number:	zinc										0.01 mg/l		1	
CAS Number:	zinc bromide											1.1		x
CAS Number.	zinc phosphide			1	1							1.1		x

Disclaimer:

€

The list of chemicals contained in this section was derived from the profiles of the wastestreams that have been accepted for disposal through the years 1997 up to and including 2002. The potential exists, although highly unlikely, for any one of the above chemicals to be present in the influent due to stormwater coming into contact with the trucks that are parked in the truck staging area. All influent will be processed through the carbon filters removing the chemicals before being discharged, as described in the application.

INDUSTRIAL APPLICATION FORM NY-2C

4

Section III - Sampling Information

Facility Name:	SPDES No.:	Outfall No.:
Norlite Corporation	NY-0004880	008
L		

4.

Form NY-2C (12/98) - Section III Forms

Existing Effluent Quality - Priority Pollutants, Toxic Pollutants, and Hazardous Substances Provide analytical results for the last three (3) years for each pollutant that you know or have reason to believe present in this discharge from this outfall, as well as for any GC/MS fractions and metals required to

Make as many concession for each copy of this each copy of this	opies of this table as choutfall. You can list 24 sampling dates on page.	s, Item 2.a for this discha Parameter name: None	Parameter name:					
Page 1	Of 1	CAS Number:	CAS Number:	CAS Number:	CAS Number:	CAS Number:	CAS Number:	CAS Number:
	Flow rate	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration
Date	Units:	Units:	Units:	Units:	Units:	Units:	Units:	Units:
						1		
						-		
							•	
		1000000		£				
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-								
					•			

APPENDIX B

SHORT ENVIRONMENTAL ASSESSMENT FORM (EAF)

- 4-16-4 (11/95)—Text 12		₩ ₩
PROJECT 1.D. NUMBER	617.20	SEQR
	Appendix C	
	State Environmental Quality Revi	ew .
SHOF	T ENVIRONMENTAL ASSESS	
	For UNLISTED ACTIONS Only	
ART I-PROJECT INFORMATION (To be complete	ed by Applicant or Project sponsor)	
1. APPLICANT /SPONSOR	2. PROJECT NAME	
Norlite Corporation	Stormwater Treat	ment Unit Operatio
3. PROJECT LOCATION: Municipality Cohoes	County Albany	
Municipality CODOES 4. PRECISE LOCATION (Street address and road intersections		
Tanker Staging Area and Spe		el Storage Area
Norlite Corporation		
628 So. Saratoga Street		
Cohoes, New York 12047		
5. IS PROPOSED ACTION:		
New Expansion Modification/alte	eration	
8. DESCRIBE PROJECT BRIEFLY:	tab Davalization	
Stormwater Treatment by Ba Preliminary Treatment and		astmont
Preliminary freatment and	OII ADSOIDENC/Calbon II	eacment
7. AMOUNT OF LAND AFFECTED:		<u> </u>
Initially 0.2 acres Ultimately .	0.2 acres	
8. WILL PROPOSED ACTION COMPLY WITH EXISTING ZONI	NG OR OTHER EXISTING LAND USE RESTRICTION	15?
-X Yes 🗋 Na If No, describe brietly		
9. WHAT IS PRESENT LAND USE IN VICINITY OF PROJECT?		-
Residential 🔯 Industrial 🔲 Commercial Describe:	Agriculture Park/Forest/Open s	pace DOther
10. DOES ACTION INVOLVE A PERMIT APPROVAL, OR FUN	DING, NOW OR ULTIMATELY FROM ANY OTHER O	OVERNMENTAL AGENCY (FEDERAL,
STATE OR LOCAL)?		
니 Yes 스 No If yes, list agency(s) and pr	ermit/approvals	
11. DOES ANY ASPECT OF THE ACTION HAVE A CURRE		
Yes X No If yes, list agency name and pe		
12. AS A RESULT OF PROPOSED ACTION WILL EXISTING E		
⊠Y#s □No SPDES #NY-000	4880	
I CERTIFY THAT THE INFORMATION	N PROVIDED ABOVE IS TRUE TO THE BEST OF MY	KNOWLEDGE
		Ch. be
Applicant/sponsor name: William M		- Date:
Signature: Millim Mor	6	
	al Area, and you are a state agency,	
	orm before proceeding with this ass	essment
	OVER	
Υ.	1	

	ES ACTION EXCEED ANY TYPE I THRESHOLD IN 6 NYCRR PART 617.4? If yes, coordinate the review process and use the FULL EAF.
WII ma	LL ACTION RECEIVE COORDINATED REVIEW AS PROVIDED FOR UNLISTED ACTIONS IN 6 NYCRR, PART 617.6? If No, a negative declaration y be superseded by another involved agency.
co	ULD ACTION RESULT IN ANY ADVERSE EFFECTS ASSOCIATED WITH THE FOLLOWING: (Answers may be handwritten, if legible) 1. Existing air quality, surface or groundwater quality or quantity, noise levels, existing traffic patterns, solid waste production or disposal potential for erosion, drainage or flooding problems? Explain briefly:
С	2. Aesthetic agricultural, archaeological, historic, or other natural or cultural resources; or community or neighborhood character? Explain brief
c	3. Vegetation or fauna, fish, shellfish or wildlife species, significant habitats, or threatened or endangered species? Explain briefly:
c	04. A community's existing plans or goals as officially adopted, or a change in use or intensity of use of land or other natural resources? Explain brie
C	C5. Growth, subsequent development, or related activities likely to be induced by the proposed action? Explain briefly.
Ċ	C6. Long term, short term, cumulative, or other effects not identified in C1-C5? Explain briefly.
¢	C7. Other impacts (including changes in use of either quantity or type of energy)? Explain briefly.
	VILL THE PROJECT HAVE AN IMPACT ON THE ENVIRONMENTAL CHARACTERISTICS THAT CAUSED THE ESTABLISHMENT OF A CEA?
	S THERE, OR IS THERE LIKELY TO BE, CONTROVERSY RELATED TO POTENTIAL ADVERSE ENVIRONMENTAL IMPACTS?
ARI	[III-DETERMINATION OF SIGNIFICANCE (To be completed by Agency)
E in e c	NSTRUCTIONS: For each adverse effect identified above, determine whether it is substantial, large, important or otherwise significance effect should be assessed in connection with its (a) setting (i.e. urban or rural); (b) probability of occurring; (c) duration rreversibility; (e) geographic scope; and (f) magnitude. If necessary, add attachments or reference supporting materials. Ensure explanations contain sufficient detail to show that all relevant adverse impacts have been identified and adequately addresse question D of Part II was checked yes, the determination and significance must evaluate the potential impact of the proposed a bon the environmental characteristics of the CEA.
	Check this box if you have identified one or more potentially large or significant adverse impacts which MA occur. Then proceed directly to the FULL EAF and/or prepare a positive declaration.
	Check this box if you have determined, based on the information and analysis above and any supportin documentation, that the proposed action WILL NOT result in any significant adverse environmental impact AND provide on attachments as necessary, the reasons supporting this determination:

Print or Type Name of Responsible Officer in Lead Agency

Title of Responsible Officer

Signature of Responsible Officer in Lead Agency

•

Signature of Preparer (If different from responsible officer)

APPENDIX C

ANALYSIS

Calcs by: RLA Date: 05/29/03 Checked by: AK Date: 06/02/03

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Client: Norlite Corporation Job: WWTF Calcs

Norlite

Truck Staging Area and Specification Used Oi IFuel Storage Area

Wastewater Treatment Facility Calculations (version 6/06/03)

Givens re: Carbon vessels:

Each treatment vessel is approximately 80 inches high and 48 inches in diameter.

Subtract 6 inches since outlet is not truly on bottom. Top is hemispherical and piping can distribute flow over top.

Available volume?

- V=hxA
 - h = 74 inches

$A = pi x r^2$	A =	3.141593 x (24) ²	
	A =	3.141593 ×	576
	A =	1809.56 inches ²	

- V = 74 x 1809.56
- V = 133907 inches ³ or 77.49 cubic feet

Mass of Carbon

Density of Carbon expected in vessel: 31 lb / cubic feet

Therefore, the mass of carbon to be loaded in the vessel is:

- 77.49 cubic feet x 31 lb/ cubic feet
- = 2402.27 lb of carbon or 1,089,652 grams

Worst Case Mass of Petroleum to be Bound in Carbon

Worst case influent Oil & Grease concentration was 62 mg/l, while organics were below their respective detection limits. Design can be based on petroleum.

Carbon: Y lbs can hold 0.1 Y lbs of petroleum

= 240.23 lbs of petroleum or 108,965 grams

How much storm water will the system need to treat?

The average annual precipitation in Albany, NY is about 36 inches per year.

The area of the Truck Staging Area = 60 feet by 200 feet (drawing by HMK)

= 12,000 square feet



CHECKER	y: RLA Date: 05/29/03 d by: AK Date: 06/02/03	Clie		ite Corporation NTF Calcs		Sheet 2 o
	The area of the Specifica	ation Waste Oi	I Fuel Sto	orage Area = about 2	,000 squa	are feet (See Figure 2)
	Total Area = 14,000 square feet					
	Volume of Precipitation =	=	3 42,000	x) cubic feet per year	14,00	0
		=	314,181	gallons per year		
		=	860) gallons per day (g	pd)	
How m	ouch storm water can the v	essel treat?				
	Testing has indicated the of petroleum.	at the storm wa	ater shou	ld have approximatel	У	28 mg/l
	This is equivalent to	105.99 n	ng/ gallon	1		
	Since the carbon can ho	ld about	108,965	5 grams of petroleum	•	
	the vessel should be a if petroleum were the c			1,028,048 gallo	ns of wa:	ste
How io	ong should a vessel last if a	assumptions	are met?	,		
	lf 314,181	gallons per y	ear are to	be treated, then a v	essel of c	arbon will last
		3.3 y	ears			
Cost to	o fill vessel?					
	Cost of Carbon =	2402.27 II	bs x	\$0.75	=	\$1,801.70
	Total Cost =					\$1,801.70
What a	are the hydraulic loading ra	ntes to the ve	ssel?			
	The cross-sectional area					
	The cross-sectional area	a of a vessel is	6	1809.56 inche	s ²	
	The normal flow to the		3	1809.56 inche 2,500 gph	s ²	
		vessel will be	3			oot
	The normal flow to the	vessel will be	5	2,500 gph	square f	
	The normal flow to the	vessel will be	5	2,500 gph 198.944 gph /	square f /square f	
	The normal flow to the	vessel will be :		2,500 gph 198.944 gph/ 3.316 gpm	square f /square f n	
	The normal flow to the The normal flow rate is	vessel will be : a of a vessel is		2,500 gph 198.944 gph/ 3.316 gpm 0.44 ft/mi	square f /square f n	
	The normal flow to the The normal flow rate is The cross-sectional are	vessel will be : a of a vessel is		2,500 gph 198.944 gph/ 3.316 gpm 0.44 ft/mi 1809.56 inche	square f /square f n es ²	oot
	The normal flow to the The normal flow rate is The cross-sectional are The peak flow to the ve	vessel will be : a of a vessel is		2,500 gph 198.944 gph/ 3.316 gpm 0.44 ft/mi 1809.56 inche 5,000 gph	square f /square f n es ²	foot



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0.89 ft/min

PLATE 1



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(NO.	DATE	RECORD OF WORK
UNAUTHORIZED ALTERATION OR ADDITION			
TO THIS DRAWING IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE			
NEW YORK STATE EDUCATION LAW.			