2003.11.06 SPDES mod File

New York State Department of Environmental Conservation
Division of Environmental Permits, Region 4
1150 North Westcott Road, Schenectady, New York 12306-2014
Phone: (518) 357-2069 • **FAX:** (518) 357-2460
Website: www.dec.state.ny.us

Erin M. Crotty
Commissioner

November 6, 2003

William Morris
Norlite Corporation
628 South Saratoga Street
Cohoes, NY 12047

Re: **PERMIT MODIFICATION**
DEC #4-0103-00016/00020
SPDES # NY-000 4880
FACILTY: Norlite Corporation
City of Cohoes, Albany County

Dear Mr. Morris:

Enclosed please find your modified SPDES Permit. The permit, was which was issued on February 2, 2002, was modified to allow for the addition of treated quarry water to existing Outfall 006 in order to cool the discharge from that outfall to the permitted limit of 90 degrees F. Sampling points for discharge parameters are to be located at points before the addition of clean water and after the mixture. No permit limits have been changed and all other terms and conditions of the permit remain in full force and effect.

Please read all permit conditions carefully. All permit documents must be available upon request by the Department staff as well as distributed to and understood by your personnel responsible for the proper operation of the facility and compliance with the discharge limits. Any violation of these permit conditions constitutes a violation of the Environmental Conservation Law.

If you have any questions regarding this permit, you may contact the Division of Environmental Permits at the above address. Please refer to the above-referenced numbers when you are corresponding with this office or when you are applying to renew or modify this permit.

Any questions regarding your annual pollutant discharge elimination fee should be addressed directed to the Regulatory Fee Determination Unit at 1-800-225-2566.

Sincerely,

Patricia Pinder

Patricia Pinder
Agency Program Aide

Enclosure (Permit)

cc: Div. of Water, Region 4
R. Hannaford, Div. of Water, Albany
Albany Co. Dept of Health
File

SEQR

617.21
Appendix F
State Environmental Quality Review

NEGATIVE DECLARATION

Notice of Determination of Non-Significance

Project Number 4-0103-00016/00020 SPDES #NY 000 4880 Date October 17, 2003

This notice is issued pursuant to Part 617 of the implementing regulations pertaining to Article 8 (State Environmental Quality Review Act) of the Environmental Conservation Law.

The NYS Department of Environmental Conservation, as Lead Agency, has determined that the proposed action described below will not have a significant effect on the environment and that a Draft Environmental Impact Statement will not be prepared.

Name of Action: Norlite Corporation - Modification of Existing SPDES Permit

SEQR Status: Unlisted

Conditioned Negative Declaration: No

Description of Action:

Modification of existing SPDES permit to allow for the addition of treated quarry water to existing Outfall 006 in order to cool the discharge from that outfall to the permitted limit of 90 degrees F. Sampling points for discharge parameters will be located at points before the addition of clean water and after the mixture. No permit limits have been changed.

Location: (Include street address and the name of the municipality/county. A location map of appropriate scale is also recommended.)

Norlite Corporation, 628 South Saratoga Street, Cohoes, NY 12047 (Albany County)

Reasons Supporting this Determination:
(See 617.6(g) for requirements of this determination; see 617.6(h) for Conditioned Negative Declaration)

This facility currently has an existing SPDES permit. This modification would allow for the addition of treated quarry water to existing Outfall 006 in order to cool the discharge from that outfall to the permitted limit of 90 degrees F. Outfall 006 discharges into the Mohawk River which is a Class C waterway at this location. Sampling points for discharge parameters will be located at points before the addition of clean water and after the mixture. No permit limits have been changed.

Project is consistent with community plans, and the project has previously received review and approval under SEQR for a SPDES permit. No long-term impacts are anticipated.

If Conditioned Negative Declaration, provide on attachment the specific mitigation measures imposed.

For Further Information:

Contact Person: William J. Clarke, Regional Permit Administrator

Address: 1150 N. Westcott Road, Schenectady, NY 12306

Telephone Number: (518) 357-2069

For Type I Actions and Conditioned Negative Declarations, a Copy of this Notice Sent to:

Commissioner, Department of Environmental Conservation, 625 Broadway, Albany, New York 12233

Appropriate Regional Office of the Department of Environmental Conservation

Office of the Chief Executive Officer of the political subdivision in which the action will be principally located

Applicant (if any)

Other involved agencies (if any)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

State Pollutant Discharge Elimination System (SPDES)
DISCHARGE PERMIT

Special Conditions

First3.99

Industrial Code:	**1422**	SPDES Number:	**NY- 000 4880**
Discharge Class (CL):	**01**	DEC Number:	**4-0103-16/20-0**
Toxic Class (TX):	**T**	Effective Date (EDP):	**February 2, 2002**
Major Drainage Basin:	**12**	Expiration Date (ExDP):	**February 1, 2007**
Suh Drainage Basin:	**01**	Modification Dates:	**November 6, 2003**
Water Index Number:	**H-240**		
Compact Area:			

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

PERMITTEE NAME AND ADDRESS

Name: **Norlite Corporation** Attention: **William Morris**

Street: **628 South Saratoga Street**

City: **Cohoes** State: **NY** Zip Code: **12047**

is authorized to discharge from the facility described below:

FACILITY NAME AND ADDRESS

Name: **Norlite Corporation**

Location (C,T,V): **Cohoes (C)** County: **Albany**

Facility Address: **628 South Saratoga Street**

City: **Cohoes** State: **NY** Zip Code: **12047**

NYTM -E: NYTM - N:

From Outfall No.: **003** at Latitude: **42 ° 45 ′ 14 ″** & Longitude: **73 ° 40 ′ 20 ″**

into receiving waters known as: **Salt Kill Creek** Class: **D**

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

004 Salt Kill Creek D
006 Mohawk River C
007 Salt Kill Creek D

in accordance with the effluent limitations, monitoring requirements and other conditions set forth in this permit and 6 NYCRR Part 750.

DISCHARGE MONITORING REPORT (DMR) MAILING ADDRESS

Mailing Name: **Norlite Corporation**

Street: **628 South Saratoga Street**

City: **Cohoes** State: **NY** Zip Code: **12047**

Responsible Official or Agent: **William Morris** Phone: **(518) 235-0401**

This permit and the authorization to discharge shall expire on midnight of the expiration date shown above and the permittee shall not discharge after the expiration date unless this permit has been renewed, or extended pursuant to law. To be authorized to discharge beyond the expiration date, the permittee shall apply for permit renewal not less than 180 days prior to the expiration date shown above.

DISTRIBUTION:

Div. Of Water, Reg. 4
Albany County Health Department
R. Hannaford, DOW, Broadway
ECO
File

Regional Permit Administrator:
William J. Clarke

Address: NYS DEC - Div. Of Environmental Permits
1150 N. Westcott Road, Schenectady, NY 12306

Signature: William J. Clarke Date: 11/6/03

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PERMIT LIMITS, LEVELS, AND MONITORING

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
003	Quarry Water	Salt Kill Creek	EDM	02/01/07

PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FOOTNOTES (FN)
pH	6.0	9.0	SU	Daily	Grab	2

PARAMETER	ENFORCEABLE LIMIT		MONITORING ACTION LEVEL		UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg.	Daily Max.	TYPE I	TYPE II				
Flow	Monitor	Monitor			gpd	Daily	Instantaneous	2
Solids, Total Suspended	25	45			mg/l	Weekly	Composite	1, 3

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
004	Shale Fines Leachate & Storm Runoff from Landfill Area	Salt Kill Creek	EDM	02/01/07

PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FOOTNOTES (FN)
pH	6.0	9.0	SU	Daily	Grab	2

PARAMETER	ENFORCEABLE LIMIT		MONITORING ACTION LEVEL		UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg.	Daily Max.	TYPE I	TYPE II				
Flow	Monitor	Monitor			gpd	Daily	Instantaneous	2
Solids, Total Suspended	25	45			mg/l	Daily	Composite	2, 3
Temperature	NA	90			^{o}F	Daily	Grab	2
Cadmium, Total	NA	0.004			mg/l	Daily	Grab	2
Chromium, Total	NA	1.7			mg/l	Daily	Grab	2
Chromium, Hexavalent	NA	0.016			mg/l	Daily	Grab	2
Copper, Total	NA	0.018			mg/l	Daily	Grab	2
Lead, Total	NA	0.08			mg/l	Daily	Grab	2
Mercury, Total	NA	0.0002			mg/l	Daily	Grab	2
Nickel, Total	NA	1.8			mg/l	Daily	Grab	2
Zinc, Total	NA	0.3			mg/l	Daily	Grab	2

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PERMIT LIMITS, LEVELS, AND MONITORING

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
006	Trunnion Cooling Water, Scrubber Blowdown, Boiler Blowdown, & Plant Water[8]	Mohawk River	EDM	002/01/07

PARAMETER	MINIMUM	MAXIMUM	UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FOOTNOTES (FN)
pH	6.0	9.0	SU	Daily	Grab	2

PARAMETER	ENFORCEABLE LIMIT		MONITORING ACTION LEVEL		UNITS	SAMPLE FREQUENCY	SAMPLE TYPE	FN
	Monthly Avg.	Daily Max.	TYPE I	TYPE II				
Flow	NA	Monitor			gpd	Continuous	Recorded	9
Arsenic, Total	NA	0.11			lbs/day	Daily	Grab	2, 6
Barium, Total	NA	2.88			lbs/day	Daily	Grab	2, 6
Beryllium, Total	NA	1.44			lbs/day	Daily	Grab	2, 6
Cadmium, Total	NA	0.04			lbs/day	Daily	Grab	2, 6
Chromium, Total	NA	0.14			lbs/day	Daily	Grab	2, 6
Copper, Total	NA	0.66			lbs/day	Daily	Grab	2, 6
Iron, Total	NA	2.88			lbs/day	Daily	Grab	2, 6
Lead, Total	NA	0.43			lbs/day	Daily	Grab	2, 6
Mercury, Total	NA	0.04			lbs/day	Daily	Grab	2, 6
Nickel, Total	NA	0.94			lbs/day	Daily	Grab	2, 6
Selenium, Total	NA	0.07			lbs/day	Daily	Grab	2, 6
Zinc, Total	NA	0.66			lbs/day	Daily	Grab	2, 6
Solids, Total Suspended	NA	66			lbs/day	Daily	Grab	2, 7
Solids, Total Dissolved	NA	Monitor			g/l	Weekly	Grab	1, 7
Chlorine, Total Residual	NA	Monitor			mg/l		Grab	5, 7
Temperature	NA	115			^{o}F	Daily	Grab	2, 4, 7
NH_3 (as Ammonia)	NA	Monitor			mg/l	Monthly	Grab	7
Chlorides	NA	Monitor			mg/l	Monthly	Grab	7

OUTFALL No.	WASTEWATER TYPE	RECEIVING WATER	EFFECTIVE	EXPIRING
007	Storm Runoff	Salt Kill Creek	EDM	02/02/07

No monitoring required.

PERMIT LIMITS, LEVELS, AND MONITORING

FOOTNOTES:

1 Samples shall be taken one day per week while discharging.

2 Samples shall be taken each day a discharge occurs.

3 Representative composites shall consist of a minimum of three samples taken at the beginning, middle and end of the day.

4 This temperature limit shall apply at the final discharge point from the wastewater treatment plant. A temperature of 90 ^{o}F shall apply at the final discharge point of Norlite's property, prior to the Mohawk River. Sampling at the final discharge point shall consist of a quarterly grab.

5. Grab samples shall be collected following the addition of sodium hypochlorite for hydrogen sulfide control. Analysis shall be by the DPD colormetric method (equivalent to EPA Method 330.5). The addition of sodium hypochlorite shall be made whenever the ORP reading is unstable or falling below +100 toward zero or negative.

6 Samples shall be collected after the carbon filters, and prior to the effluent tanks.

7. Samples shall be collected at the final effluent.

8. Plant Water shall be defined as that treated Quarry Water flow that is discharged through outfall 006, to aid in the control of the temperature of the entire outfall flow.

9. In addition to the final effluent flow monitoring requirements, the flow of the incoming Plant Water to the Effluent Equalization & Holding Tank, and the incoming Non Contact Cooling Water to both the Effluent Equalization & Holding Tanks and the Overflow Collection Tank shall be monitored.

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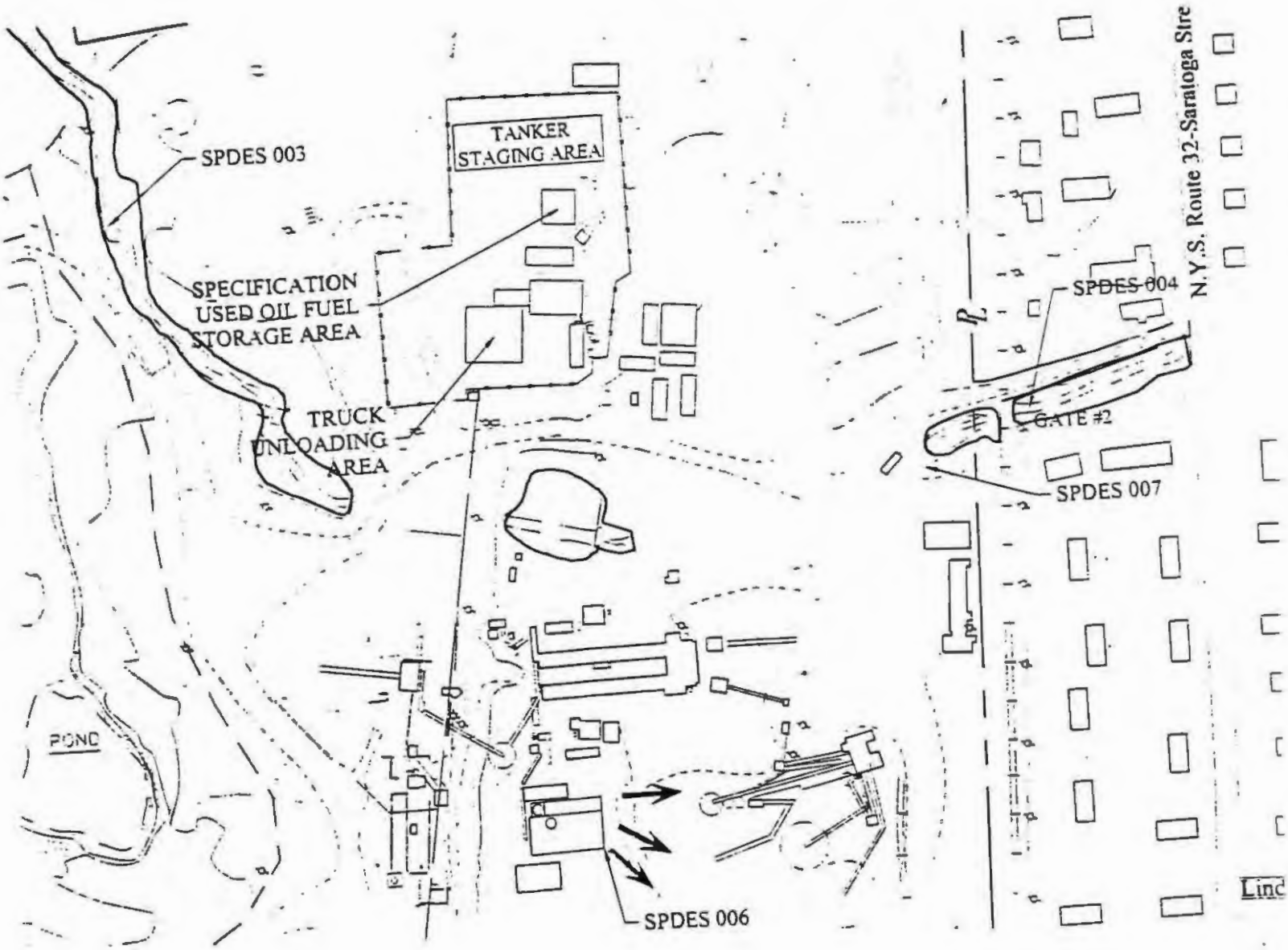
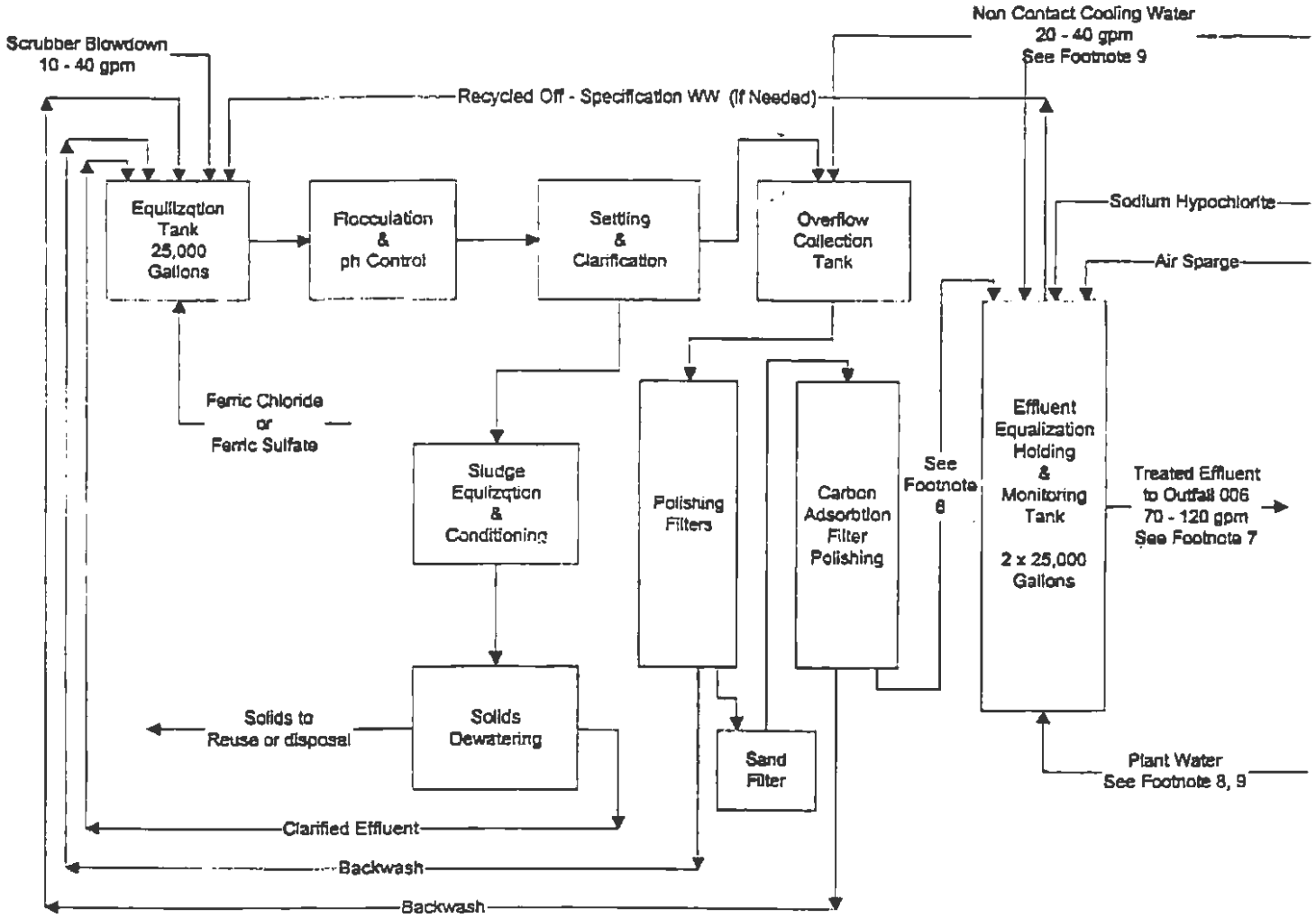
MONITORING LOCATIONS

The permittee shall take samples and measurements, to comply with the monitoring requirements specified in this permit, at the location(s) specified below:



MONITORING LOCATIONS, CONTINUED

WASTEWATER TREATMENT PLANT GENERAL PROCESS FLOW DIAGRAM



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SPECIAL CONDITIONS - BEST MANAGEMENT PRACTICES

1. If an approved Best Management Practices (BMP) plan is not already in place, the permittee shall develop a BMP plan to prevent, or minimize the potential for, release of significant amounts of toxic or hazardous pollutants to the waters of the State through plant site runoff; spillage and leaks; sludge or waste disposal; and storm water discharges including, but not limited to, drainage from raw material storage. Completed BMP plans shall be submitted **WITHIN 6 MONTHS OF THE EFFECTIVE DATE OF MODIFICATION TO THIS PERMIT** to the Regional Water Engineer at the address shown on the Recording, Reporting and Additional Monitoring Requirements. The BMP plan shall be implemented within 6 months of submission, unless a different time frame is approved by this Department.

2. Subsequent modifications to or renewal of this permit does not reset or revise the deadline set forth in (1) above, unless a new deadline is set explicitly by such permit modification or renewal.

3. The permittee shall review all facility components or systems (including material storage areas; in-plant transfer, process and material handling areas; loading and unloading operations; storm water, erosion, and sediment control measures; process emergency control systems; and sludge and waste disposal areas) where toxic or hazardous pollutants are used, manufactured, stored or handled to evaluate the potential for the release of significant amounts of such pollutants to the waters of the State. In performing such an evaluation, the permittee shall consider such factors as the probability of equipment failure or improper operation, cross-contamination of storm water by process materials, settlement of facility air emissions, the effects of natural phenomena such as freezing temperatures and precipitation, fires, and the facility's history of spills and leaks. For hazardous pollutants, the list of reportable quantities as defined in 40 CFR, Part 117 may be used as a guide in determining significant amounts of releases. For toxic pollutants, the relative toxicity of the pollutant shall be considered in determining the significance of potential releases.

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

4. Whenever the potential for a significant release of toxic or hazardous pollutants to State waters is determined to be present, the permittee shall identify Best Management Practices that have been established to minimize such potential releases. Where BMPs are inadequate or absent, appropriate BMPs shall be established. In selecting appropriate BMPs, the permittee shall consider typical industry practices such as spill reporting procedures, risk identification and assessment, employee training, inspections and records, preventive maintenance, good housekeeping, materials compatibility and security. In addition, the permittee may consider structural measures (such as secondary containment and erosion/sediment control devices and practices) where appropriate.

5. Development of the BMP plan shall include sampling of waste stream segments for the purpose of toxic "hot spot" identification. The economic achievability of effluent limits will not be considered until plant site "hot spot" sources have been identified, contained, removed or minimized through the imposition of site specific BMPs or application of internal facility treatment technology. For the purposes of this permit condition a "hot spot" is a segment of an industrial facility; including but not limited to soil, equipment, material storage areas, sewer lines etc.; which contributes elevated levels of problem pollutants to the wastewater and/or storm water collection system of that facility. For the purposes of this definition, problem pollutants are substances for which treatment to meet a water quality or technology requirement may, considering the results of waste stream segment sampling, be deemed unreasonable. For the purposes of this definition, an elevated level is a concentration or mass loading of the pollutant in question which is sufficiently higher than the concentration of that same pollutant at the compliance monitoring location so as to allow for an economically justifiable removal and/or isolation of the segment and/or B.A.T. treatment of wastewaters emanating from the segment.

SPECIAL CONDITIONS-BEST MANAGEMENT PRACTICES, CONTINUED

6. The BMP plan shall be documented in narrative form and shall include any necessary plot plans, drawings or maps. Other documents already prepared for the facility such as a Safety Manual or a Spill Prevention, Control and Countermeasure (SPCC) plan may be used as part of the plan and may be incorporated by reference. USEPA guidance for development of storm water elements of the BMP is available in the September 1992 manual "Storm Water Management for Industrial Activities," USEPA Office of Water Publication EPA 832-R-92-006 (available from NTIS, (703)487-4650, order number PB 92235969). A copy of the BMP plan shall be maintained at the facility and shall be available to authorized Department representatives upon request. As a minimum, the plan shall include the following BMP's:

a. BMP Committee
b. Reporting of BMP Incidents
c. Risk Identification & Assessment
d. Employee Training
e. Inspections and Records
f. Preventive Maintenance
g. Good Housekeeping
h. Materials Compatibility
i. Security
j. Spill prevention & response
k. Erosion & sediment control
l. Management of runoff

7. The BMP plan shall be reviewed annually and shall be modified whenever: (a) changes at the facility materially increase the potential for significant releases of toxic or hazardous pollutants, (b) actual releases indicate the plan is inadequate or (c) a letter from the Regional Water Engineer highlights inadequacies in the plan..

DISCHARGE NOTIFICATION REQUIREMENTS

(a) Except as provided in (c) and (f) of these Discharge Notification Act requirements, the permittee shall install and maintain identification signs at all outfalls to surface waters listed in this permit. Such signs shall be installed before initiation of any discharge.
(b) Subsequent modifications to or renewal of this permit does not reset or revise the deadline set forth in (a) above, unless a new deadline is set explicitly by such permit modification or renewal.
(c) The Discharge Notification Requirements described herein do not apply to outfalls from which the discharge is composed exclusively of storm water, or discharges to ground water.
(d) The sign(s) shall be conspicuous, legible and in as close proximity to the point of discharge as is reasonably possible while ensuring the maximum visibility from the surface water and shore. The signs shall be installed in such a manner to pose minimal hazard to navigation, bathing or other water related activities. If the public has access to the water from the land in the vicinity of the outfall, an identical sign shall be posted to be visible from the direction approaching the surface water.
The signs shall have **minimum** dimensions of eighteen inches by twenty four inches (18" x 24") and shall have white letters on a green background and contain the following information:

N.Y.S. PERMITTED DISCHARGE POINT

SPDES PERMIT No.: NY_____

OUTFALL No. :____

For information about this permitted discharge contact:

Permittee Name: _____

Permittee Contact: _____

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

OR:

NYSDEC Division of Water Regional Office Address :

NYSDEC Division of Water Regional Phone: ( ) - ### -####

(e) For each discharge required to have a sign in accordance with a), the permittee shall, concurrent with the installation of the sign, provide a repository of copies of the Discharge Monitoring Reports (DMRs), as required by the **RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS** page of this permit. This repository shall be open to the public, at a minimum, during normal daytime business hours. The repository may be at the business office repository of the permittee or at an off-premises location of its choice (such location shall be the village, town, city or county clerk's office, the local library or other location as approved by the Department). In accordance with the **RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS** page of your permit, each DMR shall be maintained on record for a period of three years.
(f) If, upon November 1, 1997, the permittee has installed signs that include the information required by 17-0815-a(2)(a) of the ECL, but do not meet the specifications listed above, the permittee may continue to use the existing signs for a period of up to five years, after which the signs shall comply with the specifications listed above.
(g) The permittee shall periodically inspect the outfall identification signs in order to ensure that they are maintained, are still visible and contain information that is current and factually correct.

RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS

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

b) The monitoring information required by this permit shall be summarized, signed and retained for a period of three years from the date of the sampling for subsequent inspection by the Department or its designated agent. **Also, monitoring information required by this permit shall be summarized and reported by submitting;**

[x] (if box is checked) completed and signed Discharge Monitoring Report (DMR) forms for each __1__ month reporting period to the locations specified below. Blank forms are available at the Department's Albany office listed below. The first reporting period begins on the effective date of this permit and the reports will be due no later than the 28th day of the month following the end of each reporting period.

[ ] (if box is checked) an annual report to the Regional Water Engineer at the address specified below. The annual report is due by February 1 and must summarize information for January to December of the previous year in a format acceptable to the Department.

[ ] (if box is checked) a monthly "Wastewater Facility Operation Report..." (form 92-15-7) to the:
[ ] Regional Water Engineer and/or [ ] County Health Department or Environmental Control Agency specified below

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

Department of Environmental Conservation
Division of Water
Bureau of Water Compliance Programs
625 Broadway
Albany, New York 12233-3506

Phone: (518) 402-8177

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

Department of Environmental Conservation
Regional Water Engineer
Region 4
1150 North Westcott Road
Schenectady, New York 12306-2014
Phone: (518) 357-2234

Send an **additional copy** of each DMR page to:

c) Noncompliance with the provisions of this permit shall be reported to the Department as prescribed in the attached General Conditions (Part II).

d) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.

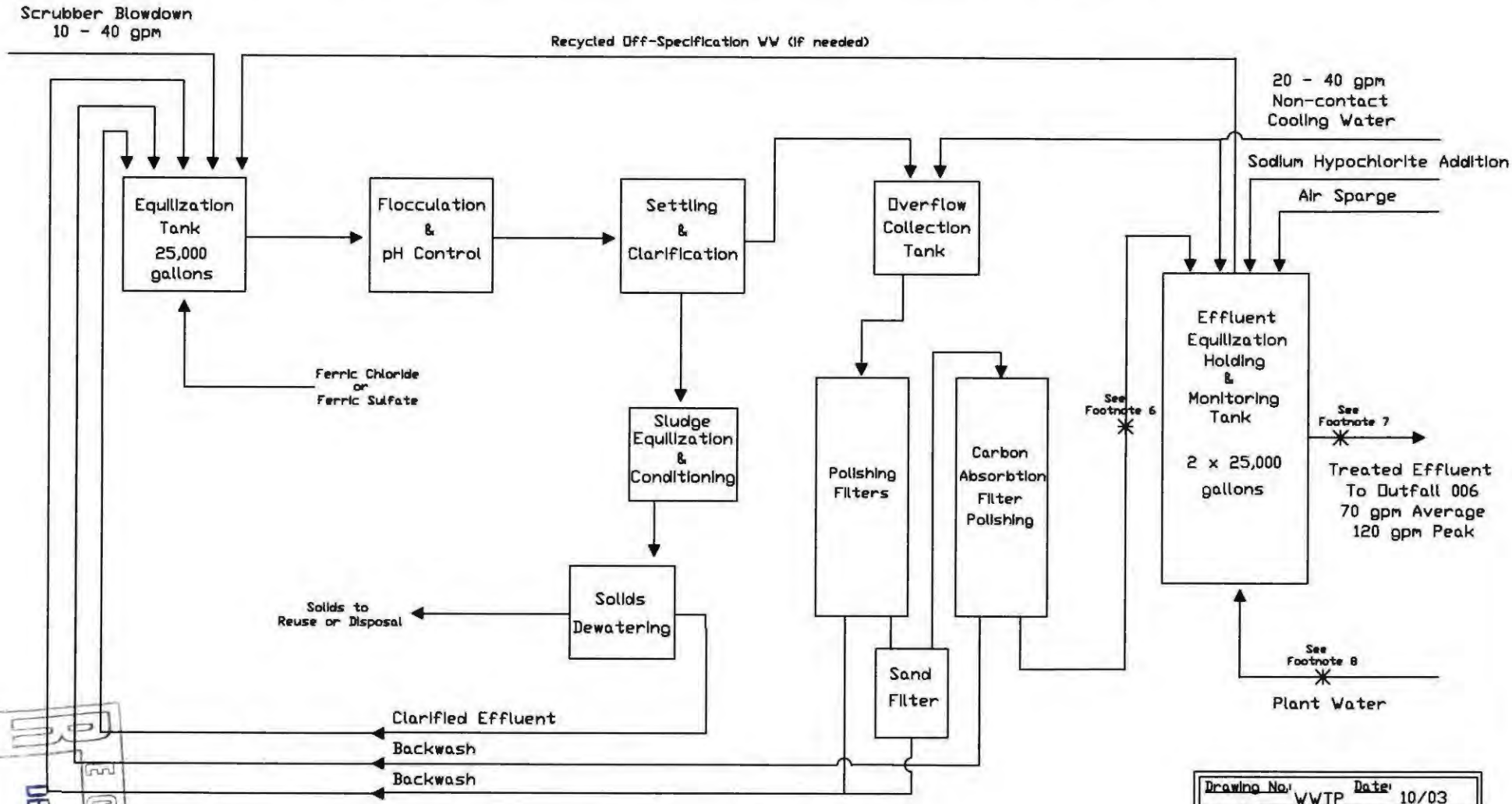
e) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculations and recording of the data on the Discharge Monitoring Reports.

f) Calculation for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

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

h) Any laboratory test or sample analysis required by this permit for which the State Commissioner of Health issues certificates of approval pursuant to section five hundred two of the Public Health Law shall be conducted by a laboratory which has been issued a certificate of approval. Inquiries regarding laboratory certification should be sent to the Environmental Laboratory Accreditation Program, New York State Health Department Center for Laboratories and Research, Division of Environmental Sciences , The Nelson A. Rockefeller Empire State Plaza, Albany, New York 12201.

Norlite Waste Water Treatment Plant General Process Flow Diagram



Drawing No: WWTP	Date: 10/03
Location: Waste Water Treatment Plant Process Flow Diagram	
Drawn By:	
Norlite Corporation 628 So. Saratoga St. Cohoes, NY 12047	Norlite

Norlite Corporation

628 SO. SARATOGA ST.
P.O. BOX 694
COHOES, NY 12047
PHONE (518) 235-0401
FAX (518) 235-0233

June 6, 2003

Ms. Carol Lamb-LaFay
NYSDEC – Region 4
1150 North Westcott Road
Schenectady, NY 12306-2014

Re: Norlite Corporation
SPDES Permit Modifications

Dear Ms. Lamb-LaFay:

This letter confirms our conversation. Norlite Corporation will submit the permit modification application described in my letter to you, dated May 30, 2003, by June 18, 2003. Norlite will not object to the permit modification for the items that we request which include the use of plant water for cooling, moving the non-contact cooling water directly to the discharge tanks, and moving the compliance sampling point to a point between the carbon filtration and the discharge tanks.

Please contact me if there are any further questions.

Sincerely,

William Morris
VP of Environmental Affairs
NORLITE CORPORATION

cc: Stephen Hamilton
Kevin Young
Tim Lachell
David Carabetta


SYSTEM BACKWASH TO EQUALIZATION TANK DWG. 23029002
(FILTER BACKWASH)
RECIRCULATION TO EQUALIZATION TANK DWG. 23029002
2 1/2" -WW-005-C
(RECIRCULATION)
SAND FILTER BACKWASH DWG. 23029003
SC
TO OFC TANK
FV-4
V-3
V-2
2 1/2"
FV-1
20 PSIG
1/2" - PA-067-B
FIQ
TRUNNION COOLING H2O FROM KILN #1 AND KILN #2 DWG. 23029002
TO SAND FILTER DWG. 23029003
FROM SAND FILTER DWG. 23029003
2 1/2" -WW-043-C
2 1/2" -WW-044-C
F-4626A
RD
AIR REL
V-104 3"
COMPLIANCE SAMPLING POINT #2
BACKWASH
2 1/2" -WW-053-E
A.S. 90-100 PSIG
TK-4628 A EFFLUENT STORAGE TANK
AIR SPARGER
0-160 PSIG
PI 4630
PLANT WATER
FI 4629
FT
FIT
2 1/2" - WW-005-C
F-4625 A, B, C, D POLISHING FILTERS
V-55A
V-54A
V-54B
V-55B
V-54C
V-55C
V-54D
V-55D
3" CS
3" CPVC
3" -WW-042-C
V-56
2 1/2" -WW-041-E
V-94
V-103
V-64
V-102
V-105
V-106
V-107
V-96
V-97
V-99
V-100
V-101
V-98
3"-WW-052-E
FE
FT
FIR
FQIR
V-65A
V-65B
2 1/2"-WW-054-E
3"-WW-055-C
V-66A
V-67A
V-68A
HS 4629 A
S-S
2 1/2" - WW-057-C
CV-87A
PC-4629 A EFFLUENT DISCHARGE PUMP
V-73
V-69A
2 1/2" - WW -059-C
V-70A
V-71
(TYP)
V-70B
F-4626B
F-4626 A, B CARBON FILTER SYSTEM
V-110
V-111
V-109
PCV 4627 A
12 PSIG 60 GPM
PSV 4627
SET @ 14 PSIG
FLOOR
2" -CW-045-B
2 1/2" -WW-051-E
TK-4628 B EFFLUENT STORAGE TANK
2 1/2" - WW-061-C
1/2" SC
V-74
2 1/2" - WW -060-C
V-67B
V-66B
V-68B
3"-WW-056-C
PC-4629 B EFFLUENT DISCHARGE PUMP
CV-87B
V-69B
V-72
2 1/2" - WW-058-C
ORP
PH
AIT
AE
BLEACH METERING PUMP
HS
3/4" DRAIN
COMPLIANCE SAMPLING POINT #1
V-75
3 PIPE DIA.
FQIR 4629
FIR 4629
FT 4629
FE 4629
FAH 4629
TI 4629
TT 4629
TE 4629
TAH 4629
FV-114
3/4" NPT
INSIDE
OUTSIDE
2 1/2" -WW-061-C
TO MOHAWK RIVER (SPDES DISCHARGE LIMITS)
OTHER USERS AS REQUIRED
BLEACH DRUM SHOCK DOSE CONTROL AS REQUIRED
BLEACH DRUM NORMAL H2S CONTROL
SIGNAL TO ACID PUMP DWG.- 23029002
AAH 4613
AAL 4613
AIR 4613
AIC 4613
AC 4613
1 1/2" NPT
AIT 4613 B
AE 4613 B
AE 4613 A
AIT 4613 A
FROM FILTER FEED PUMPS DWG. 23029002
2 1/2" -WW -040-E
2 1/2" -WW-044-C
F-4627A
V-61A
V-62A
V-57A
V-57B
V-59A
V-59B
V-58A
V-58B
V-60A
V-60B
V-61B
V-63
V-79
60 GPM 12 PSIG
PCV 4627 B
F-4627B
V-62B
F-4627 A, B CARBON FILTERS (SULFUR IMPREGNATED)

NOTES:

1. ALL ALARMS FEED ONE REMOTE (MAIN CONTROL ROOM) ALARM.
2. S-S INDICATES LOCAL START-STOP STATION.

NOTE: DIAGRAM BASED ON DRAWING BY ENSR SYSTEMS ENGINEERING. NUMBERED NY029-D1004 AND DATED 10/15/96

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DRAWING IS A VIOLATION OF SECTION 7209, SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

NO.	DATE	RECORD OF WORK	DRN	CKD	APPR
1	11/03/031	ADDED METER TO CARBON FILTER EFFLUENT	AK		

PROJECT	
PROJ. ENGR.:	R.L. Aldrich, P.E.
PROJ. NO.:	23029
PREPARED BY:	A. Kohli
DRAFTED BY:	A. Kohli
CHECKED BY:	
APPROVED BY:	
DATUM:	N/A
CONTOUR INTERVAL =	N/A FEET

WASTEWATER TREATMENT SYSTEM
PIPING & INSTRUMENTATION DIAGRAM
NORLITE CORPORATION

CITY OF COHOES ALBANY CO., N.Y.

STERLING
Sterling Environmental Engineering, P.C.
One Columbia Circle • Albany, New York 12203

DATE: 06/16/03 | SCALE: N/A | DWG. NO. 23029004 | SHEET 1 OF 1