New York State Department of Environmental Conservation **Division of Environmental Permits, Region 4** 1130 North Westcott Road, Schenectady, New York 12306-2014 Phone: (518) 357-2069 · FAX: (518) 357-2460 Website: www.dec.state.ny.us



Alexander B. Grannis Commissioner

August 17, 2007

Tim Lachell Norlite Corporation Inc. 628 South Saratoga Street Cohoes, NY 12047

> RE: DEC #4-0103-00016/00019 Norlite Corporation Mine Cohoes (City), Albany County

2007.08.17 MLR + SPASS P

Dear Mr. Lachell:

Enclosed please find the Mined Land Reclamation Permit and SPDES permits for the above referenced facility, as well as the SPDES Fact Sheet, and Response to Comments summary.

All work and operations are to be conducted in strict accordance with the permit and application documents/approved plans. Should you object to the permit as issued and are unable to resolve such objections with this office you may, within 30 calendar days of this transmittal, request a hearing in writing from the Regional Permit Administrator.

Please note the expiration date of the permit. Applications for the permit renewal must be made in advance of the expiration date. Please refer to your permit and/or 6NYCRR621 (Uniform Procedures) for specific instructions.

If you have any questions on the extent of the work authorized, or your obligations under the permit, please feel free to contact me.

Sincerely Yours,

William J. Clarke (Regional Permit Administrator Region 4

cc: K. Young

Spectra Environmental Group, 19 British American Blvd, Latham, NY 12110 Minerals - Region 4 Division of Water - Region 4 File Ne You goodaepartment of Conversion tal Conservation 1973 aloa of Hovisonmental Permits, Region 4 1920 Mathematikate chereolay key You 12300-2014 Prosecuster 75 2065 PAX(518 15) 2460 Vendor We decision (53

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If you have any objections on the extent of the work, sufficienced, or your obligations under the powert, dicase resiling to contect me

Second Environments Group, 1: British American Bivd, Laffram, NY 12110

| EC PERMIT NUMBER | | ORK STATE DEPARTMEN | T OF ENVIRONMENTAL | EFFECTIVE | DATE | |
|---|--|--|--|--|---|--|
| -0103-00016/00019 | | E | 2 | July 10, | 2003 Modification | |
| CILITY/PROGRAM NUMBER(S) | | | | EXPIRATION | N DATE(S) | |
| MLF #401-3-32-0002 | | PEF Under the E Conservation | RMIT nvironmental on Law (ECL) | June 30, 2008 | | |
| | 에T (Check All Appropriate | Boxes) | RMIT TO CONSTRUCT SP | ERMIT TO OPERA | TE | |
| ARTICLE 15, TITLE 5: | | X ARTICLE 17, TIT | LES 7, 8: | ART | ICLE 27, TITLE 9; 6NYCRR 373: | |
| ARTICLE 15, TITLE 15: | ER | ARTICLE 19: | CONTROL | ART | ICLE 34: COASTAL | |
| ARTICLE 15, TITLE 15: WATER TRANSPORT | | X ARTICLE 23, TIT MINED LAND RE | LE 27: ECLAMATION | ART | ICLE 36: ODPLAIN MANAGEMENT | |
| ARTICLE 15, TITLE 15: | | ARTICLE 24: ERESHWATER | | ART | ICLES 1, 3, 17, 19, 27, 37; CRR 380: RADIATION CONTROL | |
| ARTICLE 15, TITLE 27: | WILD, | ARTICLE 25: | ns | ART | ICLE 27, TITLE 3, 6NYCRR 364 | |
| 6NYCRR 608: | | ARTICLE 27, TH | LE 7: 6NYCRR 360: | ОТН | IER: | |
| MIT ISSUED TO | | | | | TELEPHONE NUMBER | |
| orlite Corporation | | | | | (518) 235-0401 | |
| DRESS OF PERMITTEE | et. Cohoes. NY | 12047 | | | | |
| | WORK | | | | TELEPHONE NUMBER | |
| ME AND ADDRESS OF PROJECT/FA | ACILITY | | | | | |
| cation of project/facility aratoga Street, Route 3 | 2 | | | | | |
| UNTY | TOWN/CITY/ | VILLAGE | WATERCOURSE/WETLAND | 10. | NYTM COORDINATES | |
| bany | Conces | | | | E. 000.3 N. 4734.2 | |
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NOTIFICATION OF OTHER PERMITTEE OBLIGATIONS

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees, and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

1. Facility Inspection by the Department

GENERAL CONDITIONS

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

2. Relationship of this Permit to Other Department Orders and Determinations

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

3. Applications for Permit Renewals or Modifications

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

The permittee must submit a renewal application at least: a) 180 days before expiration of permits for St

180 days before expiration of permits for State Pollutant Discharge Elimination System (SPDES), Hazardous Waste Management Facilities (HWMF), major Air Pollution Control (APC) and Solid Waste Management Facilities (SWMF); and

b) 30 days before expiration of all other permit types.

Submission of applications for permit renewal or modification are to be submitted to:

| NYSDEC Regional Permit Administrator, Region 4 1150 North Westcott Road, Schenectady, NY 12306 (for: Albany, Columbia, Greene, Rensselaer, Montgomery, & Schenectady Counties) | | NYSDEC Deputy Regional Permit Administrator, Region 4 Stamford Field Office, Rte. 10, Stamford, NY 12167 (for: Delaware, Otsegó, & Schoharie Counties) |
|---|---|--|
| monigomery, a Schenectady Counties) | 1 | |

4. Permit Modifications, Suspensions and Revocations by the Department

The Department reserves the right to modify, suspend or revoke this permit in accordance with 6 NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- exceeding the scope of the project as described in the permit application;
- newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

Additional General Conditions

FOR ARTICLE 23, Title 27 (Mined Land Reclamation)

- 5. The permittee shall not deviate or depart from the approved mined land use plan without approval by the Department of an alteration or modification thereto.
- 6. If the permittee decides to discontinue operation, a termination notice must be filed 60 days prior to the scheduled temporary or permanent cessation of mining.
- 7 The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when notification is provided, be it written or verbal, at least 24 hours prior to such inspection.
- 8. If any archaeological or structural remains are encountered during excavation, the permittee must immediately cease, or cause to cease, all work in the area of the remains and notify the NYSDEC Regional Office. Work shall not resume until written permission to do so has been received from the Department.
- 9. Unless expressly provided for, the issuance of this permit does not apply to any structures contained on the plans or in the specifications, nor does this permit apply to safety aspects of the operation and/or reclamation plan.
- 10. All activities authorized by this permit must be in strict conformance with the approved plans submitted by the applicant or his agent as part of the permit application.

| DEC PERMIT NUMBER 4-0103-00016/00019 | Norlite Cohoes Mine | | |
|---|--------------------------------------|-------------|--|
| FACILITY ID NUMBER | PROGRAM NUMBER MLF #401-3-32-0002 | PAGE 3 OF 8 | |

PERM-ML.WPT (7/20/93)

Special Conditions

FOR ARTICLE 23, Title 27 (Mined Land Reclamation)

1. Documents

The permittee shall comply with the Order on Consent, file #R4-0768-90-01, executed on 6/21/90, and carry out all work and operations authorized under this permit in strict accordance with the following application documents/approved plans:

- A. "Mined Land Use Plan Modification, Norlite Corporation Inc. Cohoes, New York" by Spectra Environmental Group, Inc. dated November 2004 and all enclosed Figures, Tables, Plates and Appendices.
- B. "Notice of Incomplete Application Response, Norlite Corporation Inc. Cohoes, New York", by Spectra Environmental Group, Inc. dated July 2005 and all enclosed Figures, Tables, Plates and Appendices.
- C. "Response to Notice of Incomplete Application, Norlite Corporation Inc. Cohoes, New York", by Spectra Environmental Group, Inc dated December 21, 2005.
- D. Letter "Re: Norlite Rezoning" by Robert J. Sweeney dated January 22, 2007.
- E. "Stormwater Pollution Prevention Plan and Best Management Practices Plan, Norlite Corporation", dated November 18, 2004, by Sterling Environmental Engineering, PC.

The following plans are provided for reference purposes and are effective only to the extent that the above documents do not modify them:

- A. Mined Land-Use and Reclamation Plans prepared by Mark Zdunczyk of Dunn Geoscience (Map 8439), dated 7/17/89, as revised by Mark Zdunczyk of Greenbush Resources, Inc., as part of the mining renewal application, dated October 14, 1997;
- B. The "Modification Application for Permit to Mine", dated August, 1992, including narrative, Mining Plan, Final Grade Profiles, and Mining Plan with Temporary Reclamation Area, all dated August 14, 1992;
- C. Letter from Griggs-Lang Consulting Geologists, Inc., dated October 30, 2002, which serves as a mining narrative; and
- D. Mine Plan Map prepared by Spectra Environmental Group, Inc., dated December 17, 2002, and subsequently revised on May 25, 2003.

Where the approved plans and conditions of this permit conflict, the permit conditions shall supercede the approved plans.

| DEC PERMIT NUMBER 4-0103-00016/00019 | Norlite Cohoes Mine | |
|---|--------------------------------------|-------------|
| FACILITY ID NUMBER | PROGRAM NUMBER MLF #401-3-32-0002 | PAGE 4 OF 8 |

PERM-ML.WPT (7/20/93)



Special Conditions

FOR ARTICLE 23, Title 27 (Mined Land Reclamation)

2. Bond, Surety to Remain in Force

Any required reclamation bond or other surety, in an amount determined by the department, shall be maintained in full force and effect. Such a bond or other surety shall not be terminated until the reclamation of the mined area is approved by the department in writing. Approval to use the expansion area is not effective until a revised mined land reclamation bond is received and accepted by the Department.

3. Strip and Stockpile Soils for Reclamation

Prior to the excavation of previously undisturbed areas, topsoil and overburden shall be stripped, stockpiled separately, and used for reclamation of mined areas. These stockpiles shall be seeded to establish a vegetative cover within 30 days, or as soon as practicable following their construction. The permittee shall locate all overburden stockpiles within the permitted area of the approved Life of Mine. Sufficient quantities of topsoil must be retained on the site for use in reclamation, unless prior approval is granted by the Department.

4. Maintenance of Area Markers for Permit Term

The permittee shall provide permanent markers such as stakes, posts or other devices acceptable to the Department to identify and delineate the permit area, as outlined on the approved Mining Plan Map. These markers are to be installed prior to the start of mining and shall be maintained for the duration of the permit term.

5. Hours

The hours of operation within the mining affected area (application documents in Special Condition 1) shall be limited to 6:00 AM to 9:00 PM Monday through Saturday. There shall be no operations (including but not limited to the startup or operation of motorized equipment, trucks and/or mining equipment) within the mining affected area on Sundays and the following holidays: New Years Day, Memorial Day, July 4, Labor Day, Thanksgiving Day and Christmas Day. In addition, as stated in the application documents (Special Condition 1) after placement of the initial berm over an estimated six month period, the operation of the southern overburden storage area shall be limited to November to April between the hours of 7 AM to 6 PM Monday through Friday and Saturday 7 AM to 4 PM.

6. Dust/Tracking

Dust generated by mining activities and haul road use shall be controlled by water spray as often as needed to suppress dust. All paved surfaces shall be swept as often as necessary. The permittee shall prevent visible dust from leaving the mine property and implement and maintain conformance with its Fugitive Dust Plan/Best Management Practices Plan. Chemical treatments shall not be used for dust control.

| DEC PERMIT NUMBER -0103-00016/00019 | | |
|--|----------------|-------------|
| ACILITY ID NUMBER | PROGRAM NUMBER | PAGE 5 OF 8 |



Special Conditions FOR ARTICLE 23, Title 27 (Mined Land Reclamation)

7. Water

No turbid waters or sediment shall be discharged to any stream, wetland, offsite drainageway, or the offsite areas. All discharged waters shall be clear and free of turbidity. There shall be no natural swales or channels or constructed features such as ditches, pipes, etc., capable of discharging waters to any offsite areas or to any areas outside the limits of the Life of Mine except those explicitly described and shown in the approved Mined Land Use Plan, SPDES permit and Stormwater Pollution Prevention Plan. The permittee must comply with all applicable State Pollutant Discharge Elimination System (SPDES) permit requirements and provide necessary notifications for off-site point source discharges.

8. Fueling of Equipment and Reporting of Spills

Fueling of equipment shall be controlled to prevent spillage. Any spillage of fuels, waste oils, other petroleum products or hazardous materials shall be reported to the Department's Spill Hotline number (1-800-457-7362) within 2 hours. The permittee shall retain the Department's Spill Response number for immediate access in the permittee's office and at the mine site.

9. Noise/Visual

Any increase in ambient noise levels shall be at or below the 5 dba level as projected in the noise analysis in the application documents (Special Condition 1 especially 1.A, Appendix B, Table 2 "Difference from Ambient" and Section 5.0 "Conclusions"). All berms, buffer areas and vegetated areas shall be implemented as specified in the application documents (Special Condition 1).

10. Revegetation

Revegetation will be conducted according to specifications set forth in Norlite's March, 1993, narrative submission under item 4.0 "Revegetation".

11. Waste

There shall be no disposal in the mine of any material regulated under 6NYCRR360 as solid waste.

12. Importation

Except as provided in the application documents/approved plans (Special Condition 1) materials originating from outside the mine may not be imported into the mine without Department approval.

| DEC PERMIT NUMBER 4-0103-00016/00019 | | |
|---|--------------------------------------|-------------|
| FACILITY ID NUMBER | PROGRAM NUMBER MLF #401-3-32-0002 | PAGE 6 OF 8 |



Special Conditions

FOR ARTICLE 23, Title 27 (Mined Land Reclamation)

13. Blasting Conditions

- a) Blasting is only to occur between the hours of 9:00 AM and 4:00 PM, Monday through Friday, excluding federal holidays.
- b) Blasting shall be conducted in a manner that will prevent injury to any person and damage to public or private property outside the life of mine. In the event that an off-site property owner makes a claim of structural damage due to a blasting event or mining activities, the permitee shall immediately notify the Department, investigate the loss claim with the property owner, and provide the Department with a written report within 7 days of the complaint.
- c) There shall be no flyrock beyond the life of mine boundary. Should there be any incidents of flyrock beyond the life of mine, all blasting shall cease, and the Department (Region 4 Mined Land Reclamation Specialist) shall be notified within 24 hours of the blast. Blasting shall resume only upon written approval from the Department.
- d) All blasting shall be undertaken, monitored and recorded by a blaster licensed by the New York State Department of Labor. The permittee shall maintain copies of all blasting records. Such records shall be made available to the Department upon request.
- e) All blasts shall be monitored by properly calibrated seismographs. Seismographs shall be installed at the nearest off-site residential receptor and any locations identified within the approved Mined Land Use Plan or as directed by the Department.
- f) Air blast shall not exceed the maximum limits listed below at the location of any dwelling, public building, school, church or community or institutional building outside the permit area.

| 0.1 Hz high-pass system | 134 | dB |
|---|------|----|
| 2 Hz high-pass system | -133 | dB |
| 5 or 6 Hz high-pass system | -129 | dB |
| c-slow (events not exceeding 2 sec. duration) | -105 | dB |

| DEC PERMIT NUMBER 4-0103-00016/00019 | Norlite Cohoes Mine | |
|---|--------------------------------------|-------------|
| FACILITY ID NUMBER | PROGRAM NUMBER MLF #401-3-32-0002 | PAGE 7 OF 8 |

Special Conditions FOR ARTICLE 23, Title 27 (Mined Land Reclamation)

g). Blasting shall be controlled so that ground vibrations (Peak Particle Velocity) shall not exceed the limits of the Variable Particle vs. Frequency Limits recommended by the U.S. Bureau of Mines Report - 8507 (November 1980). Maximum peak particle velocity shall not exceed these limits at the location of any dwelling, public building, school, church, or community or institutional building outside the permit area. If measurements are made at other than the nearest residential structure, the measurement shall be interpreted in accordance with U.S. Bureau of Mines Report - 8507.



14. Storage of explosives on site shall conform to State of New York, Department of Labor Industrial Code Rule 39, found at 12 NYCRR 39:

Part 39.6 General Provisions for the Storage and Handling of Explosives Part 39.8 Construction and Maintenance of Magazines Part 39.9 Location of Magazines

| DEC PERMIT NUMBER 4-0103-00016/00019 | Norlite Cohoes Mine | |
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| FACILITY ID NUMBER | PROGRAM NUMBER MLF #401-3-32-0002 | Page 8 of 8 |



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION State Pollutant Discharge Elimination System (SPDES) **DISCHARGE PERMIT**

| Industrial Code: | 1422/4953 | SPDES Number: | NY-000 4880 |
|-----------------------|-----------|----------------------------|------------------|
| Discharge Class (CL): | 01 | DEC Number: | 4-0103-16/20-0 |
| Toxic Class (TX): | Т | Effective Date (EDP) | February 1, 2007 |
| Major Drainage Basin: | 12 | Expiration Date (ExDP) | January 31, 2012 |
| Sub Drainage Basin: | 01 | Modification Dates: (EDPM) | 08/17/07 |
| 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 | e Corpo | oration | | | | | | | |
|------|-------------------------|-----------|---------|--------------------|-----------|------|----------|-------------|-----------|-------|------|
| | Location (C,T,V): | Cohoe | s (C) | | | | | County: | Albany | | |
| | Facility Address: | 628 So | uth San | ratoga Street | | | | | | | |
| | City: | Cohoe | s | | | | State: | NY | Zip Code: | 12047 | |
| | NYTM -E: | | | | | N | YTM - N: | | | | |
| | From Outfall No.: | 003 | | at Latitud | e: 42 ° | 45 ' | 14 ″ | & Longitude | : 73 ° | 40 ′ | 20 " |
| | into receiving water | s known | as: | Salt Kill Cree | k (H-239) | | | | Class: | D | |
| and; | (list other Outfalls, F | Receiving | g Water | s & Water Classifi | cations) | | | | | | |
| 004 | Salt Kill Creek | H-239 | D | | | | | | | | |
| 006 | Mohawk River | H-240 | С | | | | | | | | |
| 007 | Salt Kill Creek | H-239 | D | | | | | | | | |
| 008 | Salt Kill Creek | H-239 | D | | | | | | | | |
| 009 | Salt Kill Creek | H-239 | D | | | | | | | | |

in accordance with: effluent limitations; monitoring and reporting requirements; other provisions and conditions set forth in this permit; and 6 NYCRR Part 750-1.2(a) and 750-2.

DISCHARGE MONITORING REPORT (DMR) MAILING ADDRESS

| Mailing Name: | Norlite Corporation | | |
|-----------------|--------------------------------|-----------|---------------------|
| Street: | 628 South Saratoga Street | | |
| City: | Cohoes | State: NY | Zip Code: 12047 |
| Responsible Off | icial or Agent: William Morris | Pho | one: (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:

CO BWP - Permit Coordinator RWE **RPA** EPA Region II - Jeffrey Gratz EFC

| Address | 1130 North We | estcott Road | |
|----------|----------------|----------------|--------|
| | Schenectady, N | New York 12306 | |
| - | . 10 | 1 | |
| Sighatur | · U). | 10 L Date | 811710 |

Fast3 99

PERMIT LIMITS, LEVELS AND MONITORING

| OUTFALL No. | | WASTEWA | ATER TYPE | | | RECEIVE | NG WATER | EFF | ECTIVE E | EXPIRING |
|------------------------|-------------------------|----------------|------------|--------|-------------------|-----------|----------------|-----|-------------|----------|
| 003 | | Quarry | Water | | Salt K | ill Creek | 08/17/07 | | 01/31/12 | |
| PARAMETER | MINIMUM | MINIMUM MAXIMU | | TS SA | SAMPLE FRE | | SAMPLE TYPE | | FOOTNOTES | |
| pH | 6.0 | 6.0 9.0 | | SU Dai | | | Grab | | 2 | 2 |
| PARAMETER | | ENFORCEA | BLĘ LIMIT | MONI | TORING N LEVEL | | SAMPLE | | SAMPLE | E FN |
| | | Monthly Avg. | Daily Max. | TYPE I | TYPE II | UNITS | FREQUEN | CY | ТҮРЕ | |
| Flow | | Monitor | Monitor | | | gpd | Daily | | Instantaneo | us 2 |
| Mercury, Total | | Monitor | 30 | | | ng/l | Semi annua | lly | Grab | 17 |
| Solids, Settelable | | Monitor | 0.1 | | | ml/l | Weekly | | Grab | 1 |
| Solids. Total Dissolve | Solids, Total Dissolved | | Monitor | | | mg/l | Weekly | | Grab | 1 |
| Solids, Total Suspend | ed | 25 | 45 | | | mg/l | Weekly | | Grab | 1 |

| OUTFALL No. | | WASTEWA | ATER TYP | 3 | | | RECEIVI | NG WATER | EFFECTIVE | | XPIRING |
|-----------------------|-------------|-------------------|-----------|----------|----------------------------|---------|---------|---------------|-----------|---------------|----------|
| 004 | Shale Fines | Leachate and Sto | rm Runoff | from Lar | ndfill | Area | Salt K | ill Creek | 0 | 8/17/07 | 01/31/12 |
| PARAMETER | MINIMUM | MAXIM | UM UI | NITS | ΓS SAMPLE FRE | | QUENCY | SAMPI TYPE | E | FOOTNO | TES (FN) |
| pH | 6.0 | 9.0 | | SU | Daily | | | Grab | | 2 | |
| PARAMETER | | ENFORCEABLE LIMIT | | M | MONITORING ACTION LEVEL | | Acres | SAMPLI | 3 | SAMPLE | FN |
| | | Monthly Avg. | Daily Ma | x. TYI | PE I | TYPE II | UNITS | FREQUEN | CY | TYPE | |
| Flow | | Monitor | Monitor | | | | gpd | Daily | | Instantaneous | |
| Solids, Total Suspend | ed | 25 | 45 | | | | mg/l | Daily | y Gra | | 2 |
| Temperature | | Monitor | 90 | | | | oF | Daily | | Grab | 2 |
| Cadmium, Total | | Monitor | 0.004 | | | | mg/l | Daily | | Grab | 2 |
| Chromium, Total | | Monitor | 1.7 | - | | | mg/l | Daily | | Grab | 2 |
| Chromium, Hexavaler | nt | Monitor | 0.016 | | | | mg/l | Daily | | Grab | 2 |
| Copper, Total | | Monitor | 0.018 | | | | mg/l | Daily | | Grab | 2 |
| Lead, Total | | Monitor | 0.08 | | | | mg/l | Daily | | Grab | 2 |
| Mercury, Total | | Monitor | 30 | | | | ng/l | Daily | | Grab | 2, 17 |
| Nickel, Total | | Monitor | 0.61 | | | | mg/l | Daily | | Grab | 2 |
| Zinc, Total | | Monitor | 0.3 | | | | mg/l | Daily | | Grab | 2 |

| OUTFALL No. | | WASTEWA | ATER TYPE | | | RECEIVI | NG WATER | EFF | ECTIVE | EXPIRING | |
|------------------|---------------|---|----------------------------------|----------------------------|---------|---------|-----------|----------|--------|----------|--|
| 06A | · 7 | reated Scrubber Blowe and Trunnion Non C | down, Boiler I ontact Cooling | Blowdown g Water | | Out | fall 006 | 08/17/07 | | 01/31/12 | |
| PARAM | ETER | ENFORCEAL | BLE LIMIT | MONITORING ACTION LEVEL | | | SAMPLE | SAMPI | | LE FN | |
| 1.000 | | Monthly Avg. | Daily Max. | TYPE I | TYPE II | UNITS | FREQUENCY | | TYPE | | |
| Flow | | Monitor | Monitor | | | gpd | Continuou | IS | Record | ed 7 | |
| Arsenic, Total | | Monitor | 0.11 | | | lbs/day | Daily | | Grab | 2, 10 | |
| Barium, Total | | Monitor | 2.88 | | | lbs/day | Daily | | Grab | | |
| Beryllium, Total | | Monitor | 1.44 | | | lbs/day | Daily | | Grab | | |
| Cadmium, Total | | Monitor | 0.04 | | | lbs/day | Daily | | Grab | 2.10 | |
| Chromium, Total | | Monitor | 0.14 | | | lbs/day | Daily | | Grab | 2, 10 | |
| Copper, Total | | Monitor | 0.66 | | - | lbs/day | Daily | | Grab | 2.10 | |
| Iron, Total | | Monitor | 2.88 | | | lbs/day | Daily | | Grab | 2, 10 | |
| Lead, Total | | Monitor | 0.43 | 1 | | lbs/day | Daily | | Grab | 2, 10 | |
| Mercury, Total | | Monitor | 30 | | | ng/l | Daily | | Grab | 2.17 | |
| Nickel, Total | Nickel, Total | | 0.94 | | | lbs/day | Daily | | Grab | 2, 10 | |
| Selenium, Total | | Monitor | 0.07 | | | lbs/day | Daily | | Grab | 2, 10 | |
| Zinc, Total | | Monitor | 0.66 | | | lbs/day | Daily | - | Grab | 2, 10 | |

PERMIT LIMITS, LEVELS AND MONITORING

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| OUTFALL No. | WASTEWATER TYPE | | | | | | RECEIVING WATER | | | EXPL | RING |
|-----------------|------------------------------------|--------------|-------------------|--------|----------------------------|-------|-----------------|--------|----------|------|------|
| 06B | Trunnion Non Contact Cooling Water | | | | | Out | 08/17/07 | | 01/31/12 | | |
| PARAMETER | | ENFORCEAI | ENFORCEABLE LIMIT | | MONITORING ACTION LEVEL | | SAMPLE | | SAMPLE | | FN |
| | | Monthly Avg. | Daily Max. | TYPE I | TYPE II | UNITS | FREQUENC | CY TYP | | 6 | |
| Flow | | Monitor | Monitor | | | gpd | Continuou | s | Record | ed | 7 |
| Flow, Totalized | | NA | Monitor | | | gpd | | | Record | ed | 8 |

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| OUTFALL No. | | WASTEWA | ATER TY | PE | | he - | RECEIVI | NG WATER | EFFE | CTIVE | EXP | IRING | |
|-------------------------------|----------------|-------------------------------------|--|-------|----------------------------|----------|---------|---------------|----------|--------|-------|----------|--|
| 006 | Trunnion Non C | ontact Cooling W Boiler Blowdown | Water, Treated Scrubber Blowdown, n, and Plant Water ⁶ | | | | Moha | wk River | 08/17/07 | | 01/ | 01/31/12 | |
| PARAMETER | MINIMUM | MAXIM | UM | UNITS | S SAN | MPLE FRE | QUENCY | SAMPL TYPE | E | FOOT | NOTES | S (FN) | |
| pH | 6.0 | 9.0 | | SU | 125 | Daily | | Grab | | 2 | | | |
| PARAMETER | | ENFORCEABLE LIMIT | | IT | MONITORING ACTION LEVEL | | | SAMPLE | | SAMPLE | | FN | |
| | | | Daily Max. | | TYPE I | TYPE II | UNITS | TREQUENCT | | TYPE | | | |
| Flow | | Monitor | Monit | tor | | | gpd | Continuou | IS | Record | ed | | |
| Solids, Total Suspe | nded | Monitor | 66 | | | | lbs/day | Daily | Daily G | | | 2, 10 | |
| Solids, Total Disso | ved | Monitor | Monit | tor | | | g/l | Weekly | | Grab | | 1 | |
| Chlorine, Total Res | idual | Monitor | Monit | tor | 1 | | mg/l | | | Grab | | 5 | |
| Temperature | | Monitor | 115 | | 1 | | °F | Daily | | Grab | | 2, 4 | |
| Ammonia (as NH ₃) | | Monitor | Monit | tor | | | mg/l | Monthly | | Grab | | | |
| Chlorides | | Monitor | Monit | tor | | | mg/l | Monthly | | Grab | 15.1 | | |

| OUTFALL No. | | WASTEWA | ATER TYPE | | 6 | RECEIVI | NG WATER | EFFECTIVE | EXPIRING | |
|-----------------------|---------|-------------------|--------------------------|--------------|----------------------------|---------|---------------|-----------------|------------|--|
| 007 | | Storm Runoff from | off from Production Area | | | | ill Creek | 08/17/07 01/31/ | | |
| PARAMETER | MINIMUM | MAXIM | MAXIMUM UNI | | SAMPLE FREQ | | SAMPL TYPE | E FOOT | NOTES (FN) | |
| рН | 6.0 | 9.0 | SU | J | Month | ly | Grab | | 1 | |
| PARAMETER | | ENFORCEABLE LIM | | MON ACTIC | MONITORING ACTION LEVEL | | SAMPLE | E SAMPI | LE FN | |
| | | Monthly Avg. | Daily Max. | TYPE I | TYPE II | UNITS | FREQUEN | CY TYPE | 3 | |
| Flow | | Monitor | Monitor | | | gpd | Daily | Estima | te 2 | |
| Solids. Total Suspend | led | 25 | 45 | | | mg/l | Daily | Grab | 2, 9 | |
| Solids, Settleable | | Monitor | 0.1 | | | ml/l | Daily | Grab | 2.9 | |
| Oil & Grease | | Monitor | 15 | | | mg/l | Daily | Grab | 2, | |

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PERMIT LIMITS, LEVELS AND MONITORING

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| OUTFALL NUMBE | R | WAS | TEW | ATER TYPE | | RECEIVIN | NG WATE | R | EFFECTIVE | | EXPIRIN | G |
|-------------------------|----|-----------|-----------------|--------------------------|-----------|----------------|-------------------|-----|-------------|------------|-----------|--------|
| 008 | | Storm Rur | noff f Stagi | rom Tanker T ing Area | ruck | Salt K | ill Creek | 1 | (| 08/17/07 | 01/31/12 | 2 |
| PARAMETER | MI | NIMUM | N | IAXIMUM | UNITS | SAMPLE | FREQUEN | ICY | SA | MPLE TYPE | FOOTNOTES | S (FN) |
| pH | | 6.0 | | 9.0 | SU | Each Bat | ch Dischar | ge | Grab | | | |
| PARAMETER | | EFFL | UEN | T LIMIT | PQL | MONI' ACTIO | FORING N LEVEL | | | SAMPLE | SAMPLE | FN |
| | | Monthly A | lvg. | Daily Max. | Daily Max | . TYPE I | TYPE II | | ITS | FREQUENCY | TYPE | |
| Flow | | Monito | or | Monitor | | | 1 | gi | bd | Each Batch | Total | 19 |
| Acenaphthene | | Monito | r | 10 | | | | μ | g/1 | Each Batch | Grab | |
| Acenaphthylene | | Monito | r | 10 | | | | μ | g/I | Each Batch | Grab | |
| Acentonitrile | | Monito | r | 50 | | | | μι | g/1 | Each Batch | Grab | |
| Acetone | | Monito | r | 10 | | | | μ | g/1 | Each Batch | Grab | |
| Acetopenone | | Monito | r | 10 | | | | μ | <u>.</u> /1 | Each Batch | Grab | |
| Acrylonitrile | | Monito | r | 100 | | | | μ | <u>;/1</u> | Each Batch | Grab | |
| Anthracene | | Monito | r | 10 | | | | μ | ./I | Each Batch | Grab | |
| Antimony, Total | | Monito | r | 100 | | | | μg | /1 | Each Batch | Grab | |
| Benzene | | Monito | r | 5 | | | | μg | /1 | Each Batch | Grab | |
| Benzidine | | Monito | r | 0.1 | 0.3 | | | μg | /1 | Each Batch | Grab | 11 |
| Benzo(a)pyrene | | Monito | r | 0.0012 | 0.09 | | | μg | :/1 | Each Batch | Grab | 12 |
| Benzo(ghi)pyrene | | Monito | r | 10 | | | | μg | /1 | Each Batch | Grab | |
| Benzo(k)fluoranthene | | Monito | r | 10 | | | | μg | /1 | Each Batch | Grab | |
| Bromoform | | Monito | r | 50 | | | | μg | /1 | Each Batch | Grab | |
| Butylbenzyl phthlate | | Monito | r | 10 | | | | μg | /1 | Each Batch | Grab | |
| Carbon Disulfide | | Monito | r | 10 | | | | μg | /1 | Each Batch | Grab | |
| Carbon Tetrachloride | | Monito | r | 10 | | | | μg | /1 | Each Batch | Grab | |
| Chlordane | | Monito | r | 0.00002 | 0.06 | | 1 | μϼ | /1 | Each Batch | Grab | 13 |
| Chlorobenzene | | Monito | r | 25 | | | | μg | /1 | Each Batch | Grab | |
| bis (2Chloroethyl)ether | | Monito | r | 10 | | | | μg | /1 | Each Batch | Grab | |
| Chloroform | | Monito | r | 100 | | | | μg | /1 | Each Batch | Grab | |
| 2 - Chlorophenol | | Monito | r | 10 | | | | μg | /1 | Each Batch | Grab | |
| m - Cresol | | Monito | r | 50 | | | | μg | /1 | Each Batch | Grab | |
| o - Cresol | | Monito | r | 50 | | | | μg | /1 | Each Batch | Grab | |
| Chrysene | | Monitor | r | 10 | | | | μg | /1 | Each Batch | Grab | |
| Dibenzo(ah)anthracene | | Monitor | r | 10 | | | | μg | /1 | Each Batch | Grab | |

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PERMIT LIMITS, LEVELS AND MONITORING

| OUTFALL NUMBER | WASTEW | ATER TYPE | | RECEIVIN | NG WATER | EF | FECTIVE | EXPIRING | 3 |
|--------------------------|-------------------------|---------------------------|-----------|----------|-------------------|-------|------------|----------|-----|
| 008, Continued | Storm Runoff f Stagi | from Tanker T ing Area | ruck | Salt K | ill Creek | | 08/17/07 | 01/31/12 | |
| PARAMETER | EFFLUEN | EFFLUENT LIMIT | | | FORING N LEVEL | | SAMPLE | SAMPLE | FN |
| | Monthly Avg. | Daily Max. | Daily Max | . TYPE I | TYPE II | UNITS | FREQUENCY | ТҮРЕ | |
| Dibenzofuran | Monitor | 10 | | | | μg/l | Each Batch | Grab | |
| Dichlorobenzenes, Sum of | Monitor | 5 | | | | µg/l | Each Batch | Grab | 18 |
| 3,3 - Dichlorobenzidine | Monitor | 20 | | | | µg/l | Each Batch | Grab | 14 |
| 2.4 - Dichlorophenol | Monitor | 1 | | | | µg/l | Each Batch | Grab | |
| 2,6 - Dichlorophenol | Monitor | 10 | | | | µg/l | Each Batch | Grab | |
| 2,4 - Dimethylphenol | Monitor | 5 . | | | | µg/l | Each Batch | Grab | |
| Dimethylphthlate | Monitor | 25 | | | | µg/l | Each Batch | Grab | |
| Di -n - octylphlate | Monitor | 10 | | | | µg/l | Each Batch | Grab | |
| Dinoseb | Monitor | 5 | | | | µg/l | Each Batch | Grab | |
| Ethyl Methraclate | Monitor | 20 | | | | µg/l | Each Batch | Grab | |
| Ethylbenzene | Monitor | 50 | | | | μg/l | Each Batch | Grab | |
| Fluoranthene | Monitor | 10 | | | | μg/l | Each Batch | Grab | |
| Fluorene | Monitor | 4.8 | | | | µg/l | Each Batch | Grab | |
| Heptachlor | Monitor | 0.0002 | 0.01 | | T | µg/l | Each Batch | Grab | 13 |
| Hexachlorobenzene | Monitor | 0.00005 | 0.2 | | | µg/l | Each Batch | Grab | 14 |
| Hexachlorobutadiene | Monitor | 0.01 | 1 | | | µg/l | Each Batch | Grab | 14 |
| Hexacholroethane | Monitor | 0.6 | | | | µg/l | Each Batch | Grab | 14 |
| Isobutanol | Monitor | 50 | - | | | µg/l | Each Batch | Grab | |
| Isophorone | Monitor | 50 | | | | μg/l | Each Batch | Grab | |
| Mercury, Total | Monitor | 30 | | | | ng/l | Each Batch | Grab | 1.7 |
| Methacrylonite | Monitor | 50 | | E. | | µg/l | Each Batch | Grab | |
| Methoxchlor | Monitor | 50 | | | | μg/l | Each Batch | Grab | |
| Methyl Methacrylate | Monitor | 50 | | | | µg/l | Each Batch | Grab | |
| Naphthalene | Monitor | 10 | | | | µg/l | Each Batch | Grab | |
| 1 - Naphthylamine | Monitor | 10 | | | | μg/l | Each Batch | Grab | |
| Nitrobenzene | Monitor | 50 | | | | µg/1 | Each Batch | Grab | |

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PERMIT LIMITS, LEVELS AND MONITORING

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| OUTFALL NUMBER | WASTEW | WASTEWATER TYPE | | RECEIVI | NG WATEI | R EI | FECTIVE | EXPIRING | |
|--------------------------|------------------------|--------------------------|------------|---------------|-------------------|-------|------------|----------|----|
| 008, Continued | Strom Runoff f Stag | rom Tanker T ing Area | ruck | Salt K | ill Creek | 100 | 08/17/07 | 01/31/12 | |
| PARAMETER | EFFLUEN | T LIMIT | PQL | MONI ACTIO | TORING N LEVEL | | SAMPLE | SAMPLE | FN |
| | Monthly Avg. | Daily Max. | Daily Max. | TYPE 1 | TYPE II | UNITS | FREQUENCY | TYPE | |
| PCBs , Total | NA | 0.001 | | | | ng/l | | Grab | 15 |
| Aroclor 1016 | Monitor | see PCBs | 300 | | | ng/l | Each Batch | Grab | 16 |
| Aroclor 1221 | Monitor | see PCBs | 300 | | | ng/l | Each Batch | Grab | 16 |
| Aroclor 1232 | Monitor | see PCBs | 300 | | | ng/l | Each Batch | Grab | 16 |
| Aroclor 1242 | Monitor | see PCBs | 300 | | | ng/l | Each Batch | Grab | 16 |
| Aroclor 1248 | Monitor | see PCBs | 300 | | | ng/l | Each Batch | Grab | 16 |
| Aroclor 1254 | Monitor | see PCBs | 300 | | | ng/l | Each Batch | Grab | 16 |
| Aroclor 1260 | Monitor | see PCBs | 300 | | | ng/l | Each Batch | Grab | 16 |
| Pentacholorphenol | Monitor | 5 | | | | µg/l | Each Batch | Grab | |
| Phenanthrene | Monitor | 10 | | | | µg/l | Each Batch | Grab | |
| Phenol | Monitor | 5 | | | | µg/l | Each Batch | Grab | |
| Propionitrile | Monitor | 50 | | | | μg/l | Each Batch | Grab | |
| Pyrene | Monitor | 10 | | | | μg/l | Each Batch | Grab | |
| Styrene | Monitor | 10 | | | | µg/l | Each Batch | Grab | |
| Tetracholoroethylene | Monitor | 1 | | | | µg/l | Each Batch | Grab | |
| Toluene | Monitor | 5 | | | | µg/l | Each Batch | Grab | |
| o - Toluidine | Monitor | 50 | | | | μg/l | Each Batch | Grab | |
| 1,1,1 - Trichloroethane | Monitor | 10 | | | | μg/l | Each Batch | Grab | |
| 1,1,2 - Trichloroethane | Monitor | 10 | | | | μg/l | Each Batch | Grab | |
| Trichloroethylene | Monitor | 10 | | | | μg/l | Each Batch | Grab | |
| 2,4,5 - Trichlorophenol | Monitor | 5 | 10 | | | μg/l | Each Batch | Grab | |
| 2,4,6 - Trichlorophenol | Monitor | 5 | | | | μg/l | Each Batch | Grab | |
| Tricholrotrifluoroethane | Monitor | 10 | | | 1 | μg/l | Each Batch | Grab | |
| p - Xylene | Monitor | 5 | | | | μg/l | Each Batch | Grab | |

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RECEIVING WATER EFFECTIVE EXPIRING OUTFALL No. WASTEWATER TYPE Salt Kill Creek 08/17/07 01/31/12 009 Storm Runoff from Advanced Liquid Recycling Area SAMPLE FOOTNOTES (FN) MAXIMUM UNITS SAMPLE FREQUENCY PARAMETER MINIMUM TYPE Grab 2 SU Daily 6.0 9.0 pH ENFORCEABLE LIMIT MONITORING ACTION LEVEL SAMPLE SAMPLE FN PARAMETER FREQUENCY TYPE UNITS TYPE II Daily Max. TYPE I Monthly Avg. 2 Instantaneous Monitor Monitor gpd Daily Flow 2,20 Daily Grab Monitor Monitor mg/l Glycols Grab 2 Monitor 15 mg/l Daily Oil & Grease Grab 2 25 45 mg/l Daily Solids, Total Suspended

PERMIT LIMITS, LEVELS AND MONITORING

| OUTFALL N |). | RI | ECEIVING WATEF | EFFECTI | VE EXPIRING | G | |
|--------------------------|--------------|------------|-----------------------------|---------|-------------|-------------------|----|
| Sum of 003, 004, a | nd 008 | | Salt Kill Creek | | 08/17/0 | 7 01/31/12 | |
| PARAMETER | ENFORCEAI | BLE LIMIT | WET MONITORING ACTION | LD UTO | SAMPLE | SAMPLE | FN |
| | Monthly Avg. | Daily Max. | LEVEL | UNITS | FREQUENCY | I YPE | |
| Flow | Monitor | Monitor | | gpd | Quarterly | Calculated | 21 |
| WET - Acute Invertebrate | | | | TUa | Quarterly | 24hr comp/renewal | 22 |
| WET - Acute Vertebrate | | - | 0.3 | TUa | Quarterly | 24hr Comp/renewal | 22 |

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PERMIT LIMITS, LEVELS, AND MONITORING - FOOTNOTES

FOOTNOTE:

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

7. The instantaneous flow shall be recorded in the operator's logbook any time a discharge of Trunnion Non Contact Cooling Water occurs through Outfall 06B simultaneous to a sample of Outfall 06A being taken. A summary of the relative flow rates for outfalls 06A and 06B, both instantaneous and totalized, shall be recorded and submitted with the Discharge Monitoring Report.

8. In the event of any discharge of Trunnion Non Contact Cooling Water to the overflow collections tanks, the start and end times, and totalized flow shall be recorded in the operator's logbook.

9. Limits for these parameters shall be "Monitoring Only" until 2 years from the Effective Date of Modification to this permit. Thereafter, the effluent limits noted shall apply.

10. Loadings shall be calculated using the totalized flow at the sampling location for each day on which sampling occurs.

11. Analysis shall be by EPA Method 605.

12. Analysis shall be by EPA Method 610.

13. Analysis shall be by EPA Method 608.

14. Analysis shall be by EPA Method 612.

15. The 0.000001 ng/l effluent limit for Total PCBs is the calculated water quality based effluent limit. For permit compliance purposes, Total PCBs are indicated by Aroclor limits. Monitoring and reporting of Total PCBs is specified on the PCB Pollutant Minimization Program, page 16 of 20.

16. Analysis shall be by EPA Method 608. Grams/day shall also be reported on the Discharge Monitoring Report. Refer also to the requirements on the PCB Pollutant Minimization Program, page 16 of 20.

17. Analysis shall be by EPA Method 1631. Grams/day shall also be reported on the Discharge Monitoring Report. Refer also to the requirements on the Mercury Pollutant Minimization Program, page 17 of 20.

18. The sum of 1, 2 - Dichlorobenzene, 1, 3 - Dichlorobenzene, and 1, 4 - Dichlorobenzene shall be 5 μ g/l or less. Analysis shall be by EPA Method 601 or 602.

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PERMIT LIMITS, LEVELS, AND MONITORING - FOOTNOTES, CONTINUED

FOOTNOTE:

19. No discharge is authorized from this outfall until a viable wastewater treatment facility has been constructed in accordance with engineering reports, plans and specifications approved by the Department, and has been inspected by the Department for compliance with those approved engineering documents.

20. Analytical test for Glycols shall have a minimum detection of 50 micrograms per liter (1g/l).

21. Samples collected from the specified outfalls shall be flow weighted for analysis.

22. Whole Effluent Toxicity Testing (WET) Requirements - Quarterly analysis shall be conducted during the years ending with an 8 or 3. The analyses shall be performed on a combined sample of the designated outfalls. Such sample shall be collected on a flow weighted basis. Every effort shall be made to collect the samples when there is a discharge from all the outfalls noted, but the absence of a discharge from any outfall(s) shall not constitute acause for relief from the WET requirements. Testing shall be performed in accordance with 40 CFR, Part 136, and TOGS 1.3.2, unless prior written approval of an alternate method has been obtained from the Department. The test species shall be Ceriodaphnia dubia (invertebrate), and Pimephales promelas (vertebrate). All tests conducted shall be static - renewal (1 renewal for Acute Tests), using the appropriate dilution series bracketing the IWC and generating a definitive test end point, otherwise an immediate rerun is required. WET testing shall be coordinated with the monitoring of chemical and physical parameters limited in this permit so that the resulting analyses are also representative of the sample used for WET testing. The dilution factor for Salt Kill Creek is zero (0).

Reporting - Toxicity Units shall be calculated and reported on the discharge Monitoring Reports as follows: TUacute = 100/48hr LC50 or 100/48hr EC50, where the 48hr LC50 or 48hr EC50 are expressed in % effluent. Report a TUacute of 0.3 if the sample shows no statistically significant difference in mortality from control. Additionally, a summary page of the test results for the invertebrate and vertebrate species indicating TUacute, 48hr LC50 or 48hr EC50 for Acute Tests shall also be included at the beginning of the report. The complete test report, including all corresponding results, statistical analyses, reference toxicity data, daily average flow at the time of sampling, and other appropriate supporting documentation shall be submitted within 60 days following the end of each test period to the Toxicity Testing Unit, Bureau of Water Assessment & Management, 625 Broadway, Albany, New York 12233.

<u>WET Testing Action Level Exceedances</u> - If an action level is exceeded, the Department may require the permittee to conduct additional WET acute tests. Additionally, the permittee may be required to perform a Toxicity Reduction Evaluation (TRE) in accordance with Department guidance. If such additional testing or performance of a TRE is required, the permittee shall be notified in writing by the Region 4 Water Engineer, 1130 North Westcott Road, Schenectady, New York 12306. The written notification shall include the reason(s) why additional testing or a TRE is required.

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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:

SPDES OUTFALLS 003 QUARRY WATER 004 SHALE FINES & STORM RUNOFF FROM LANDFILL AREA 006 TRUNNION NON CONTACT COOLING WATER, SCRUBBER BLOWDOWN, BOILER BLOWDOWN, AND PLANT WATER 007 STORM RUNOFF FROM PRODUCTION AREA 008 STORM RUNOFF FROM TANKER TRUCK STAGING AREA STORM RUNOFF FROM ADVANCED 009 LIQUID RECYCLING AREA ADVANCED LIQUID RECYCLING BUILDING SPDES 009 Surcel SPDES 008 12 32-Saratoga TANKER STADING AREA SPDES 003 Route APPROXIMATE LOCATION OF STORMWATER TREATMENT UNIT FACILITY SPECIFICATION USED OIL FUEL SPD65 004 SPIDES 007 POND 1 ri 132. · ingit 21.50 SPDES 006 Linden Place 4 1

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MONITORING LOCATIONS, CONTINUED WASTEWATER TREATMENT PLANT GENERAL PROCESS FLOW DIAGRAM

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



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SPECIAL CONDITIONS - BEST MANAGEMENT PRACTICES

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4.

1. <u>General</u> - The permittee shall develop, maintain, and implement a Best Management Practices (BMP) plan to prevent releases of significant amounts of pollutants to the waters of the State through plant site runoff; spillage and leaks; sludge or waste disposal; and stormwater discharges including, but not limited to, drainage from raw material storage.

The BMP plan shall be documented in narrative form and shall include the 13 minimum BMPs and 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. A copy of the current BMP plan shall be submitted to the Department as required in item (2.) below and a copy must be maintained at the facility and shall be available to authorized Department representatives upon request.

- 2. <u>Compliance Deadlines</u> An UPDATED completed BMP plan shall be submitted WITHIN SIX MONTHS OF THE EFFECTIVE DATE OF MODIFICATION TO THIS PERMIT to the Region 4 Water Engineer, 1130 North Westcott Road Schenectady, New York 12306. The BMP plan shall be implemented within 6 months of submission, unless a different time frame is approved by the Department. The BMP plan shall be reviewed annually and shall be modified whenever (a) changes at the facility materially increase the potential for releases of pollutants, (b) actual releases indicate the plan is inadequate, or (c) a letter from the Department identifies inadequacies in the plan. The permittee shall certify in writing, as an attachment to the December Discharge Monitoring Report (DMR), that the annual review has been completed. All BMP plan revisions (with the exception of SWPPPs see item (4.B.) below) must be submitted to the Regional Water Engineer within 30 days. Note that the permittee is not required to obtain Department approval of the BMP plan (or of any SWPPPs) unless notified otherwise. Subsequent modifications to or renewal of this permit does not reset or revise these deadlines unless a new deadline is set explicitly by such permit modification or renewal.
- 3. <u>Facility Review</u> The permittee shall review all facility components or systems (including but not limited to 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 materials or pollutants are used, manufactured, stored or handled to evaluate the potential for the release of 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. 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 identified in Tables 6-10 of SPDES application Form NY-2C (available at *http://www.dec.state.ny.us/website/dcs/permits/olpermits/form2c.pdf*) or that are required to be monitored for by the SPDES permit.

A. <u>13 Minimum BMPs</u> - Whenever the potential for a release of pollutants to State waters is determined to be present, the permittee shall identify BMPs that have been established to prevent or minimize such potential releases. Where BMPs are inadequate or absent, appropriate BMPs shall be established. In selecting appropriate BMPs, the permittee shall consider good industry practices and, where appropriate, structural measures such as secondary containment and erosion/sediment control devices and practices. USEPA guidance for development of stormwater elements of the BMP is available in the September 1992 manual *Storm Water Management for Industrial Activities*, EPA 832-R-92-006 (available from NTIS, 703-487-4650, order # PB 92235969). As a minimum, the plan shall include the following BMPs:

| 1. | BMP Pollution Prevention Team | 6. Security | 10. Spill Prevention & Response |
|----|----------------------------------|------------------------------|---------------------------------|
| 2. | Reporting of BMP Incidents | 7. Preventive Maintenance | 11. Erosion & Sediment Control |
| 3. | Risk Identification & Assessment | 8. Good Housekeeping | 12. Management of Runoff |
| 4. | Employee Training | 9. Materials/Waste Handling, | 13. Street Sweeping |
| 5. | Inspections and Records | Storage, & Compationity | |

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SPECIAL CONDITIONS - BEST MANAGEMENT PRACTICES, CONTINUED

B. <u>Stormwater Pollution Prevention Plans (SWPPPs) Required for Discharges of Stormwater From Construction Activity</u> to <u>Surface Waters</u> - As part of BMP #11, a SWPPP shall be developed prior to the initiation of any site disturbance of one acre or more of uncontaminated area. Uncontaminated area means soils or groundwater which are free of contamination by any toxic or non-conventional pollutants identified in Tables 6-10 of SPDES application Form NY-2C. Disturbance of any size contaminated area(s) and the resulting discharge of contaminated stormwater is not authorized by this permit unless the discharge is under State or Federal oversight as part of a remedial program or after review by the Regional Water Engineer; nor is such discharge authorized by any SPDES general permit for stormwater discharges. SWPPPs are not required for discharges of stormwater from construction activity to groundwaters.

The SWPPP shall conform to the New York Standards and Specifications for Erosion and Sediment Control and New York State Stormwater Management Design Manual, unless a variance has been obtained from the Regional Water Engineer, and to any local requirements. The permittee shall submit a copy of the SWPPP and any amendments thereto to the local governing body and any other authorized agency having jurisdiction or regulatory control over the construction activity at least 30 days prior to soil disturbance. The SWPPP shall also be submitted to the Regional Water Engineer if contamination, as defined above, is involved and the permittee must obtain a determination of any SPDES permit modifications and/or additional treatment which may be required prior to soil disturbance. Otherwise, the SWPPP shall be submitted to the Department only upon request. When a SWPPP is required, a properly completed Notice of Intent (NOI) form shall be submitted (available at www.dec.state.ny.us/website/dow/toolbox/swforms.html) prior to soil disturbance. Note that submission of a NOI is required for informational purposes; the permittee is not eligible for and will not obtain coverage under any SPDES general permit for stormwater discharges, nor are any additional permit fees incurred. SWPPPs must be developed and submitted for subsequent site disturbances in accordance with the above requirements. The permittee is responsible for ensuring that the provisions of each SWPPP is properly implemented.

NOTE: This paragraph shall apply to all activities (such as the construction of new buildings, parking areas, roadways, the southern overburden storage area, etc.) that are not part of the routine mining or industrial activities at the site. Those routine activities are addressed elsewhere in this requirement.

Required Sampling For "Hot Spot" Identification - Development of the BMP plan shall include sampling of waste stream segments for the purpose of pollutant "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 stormwater 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 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.

Facilities with Petroleum and/or Chemical Bulk Storage (PBS and CBS) Areas - Compliance must be maintained with all applicable regulations including those involving releases, registration, handling and storage (6NYCRR 595-599 and 612-614). Stormwater discharges from handling and storage areas should be eliminated where practical.

A. <u>Spill Cleanup</u> - All spilled or leaked substances must be removed from secondary containment systems as soon as practical and for CBS storage areas within 24 hours, unless written authorization is received from the Department. The containment system must be thoroughly cleaned to remove any residual contamination which could cause contamination of stormwater and the resulting discharge of pollutants to waters of the State. Following spill cleanup the affected area must be completely flushed with clean water three times and the water removed after each flushing for proper disposal in an on-site or off-site wastewater treatment plant designed to treat such water and permitted to discharge such wastewater. Alternately, the permittee may test the first batch of stormwater following the spill cleanup to determine discharge acceptability. If the water contains no pollutants it may be discharged. Otherwise it must be disposed of as noted above. See *Discharge Monitoring* below for the list of parameters to be sampled for.

6.

5.

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SPECIAL CONDITIONS - BEST MANAGEMENT PRACTICES, CONTINUED

B. <u>Discharge Operation</u> - Stormwater must be removed before it compromises the required containment system capacity. Each discharge may only proceed with the prior approval of the permittee staff person responsible for ensuring SPDES permit compliance. Bulk storage secondary containment drainage systems must be locked in a closed position except when the operator is in the process of draining accumulated stormwater. Transfer area secondary containment drainage systems must be locked in a closed position during all transfers and must not be reopened unless the transfer area is clean of contaminants. Stormwater discharges from secondary containment systems should be avoided during periods of precipitation. A logbook shall be maintained on site noting the date, time and personnel supervising each discharge.

C. <u>Discharge Screening</u> - Prior to each discharge from a secondary containment system the stormwater must be screened for contamination^{*}. All stormwater must be inspected for visible evidence of contamination. Additional screening methods shall be developed by the permittee as part of the overall BMP Plan, e.g. the use of volatile gas meters to detect the presence of gross levels of gasoline or volatile organic compounds. If the screening indicates contamination, the permittee must collect and analyze a representative sample^{**} of the stormwater. If the water contains no pollutants it may be discharged. Otherwise it must either be disposed of in an on site or off site wastewater treatment plant designed to treat and permitted to discharge such wastewater or the Regional Water Engineer can be contacted to determine if it may be discharged without treatment.

D. <u>Discharge Monitoring</u> - Unless the discharge from any bulk storage containment system outlet is identified in the SPDES permit as an outfall with explicit effluent and monitoring requirements, the permittee shall monitor the outlet as follows:

(i) Bulk Storage Secondary Containment Systems:

(a) The volume of each discharge from each outlet must be monitored. Discharge volume may be calculated by measuring the depth of water within the containment area times the wetted area converted to gallons or by other suitable methods. A representative sample shall be collected of the first discharge 'following any cleaned up spill or leak. The sample must be analyzed for pH, the substance(s) stored within the containment area and any other pollutants the permittee knows or has reason to believe are present^{*}.

(b) Every fourth discharge^{*} from each outlet must be sampled for pH, the substance(s) stored within the containment area and any other pollutants the permittee knows or has reason to believe are present^{*}.

- (ii) Transfer Area Secondary Containment Systems:
 - The first discharge following any spill or leak must be sampled for flow, pH, the substance(s) transferred in that area and any other pollutants the permittee knows or has reason to believe are present.

E. <u>Discharge Reporting</u> - Any results of monitoring required above, excluding screening data, must be submitted to the Department by appending them to the corresponding DMR. Failure to perform the required discharge monitoring and reporting shall constitute a violation of the terms of the SPDES permit.

F. <u>Prohibited Discharges</u> - In all cases, any discharge which contains a visible sheen, foam, or odor, or may cause or contribute to a violation of water quality is prohibited. The following discharges are prohibited unless specifically authorized elsewhere in this SPDES permit: spills or leaks, tank bottoms, maintenance wastewaters, wash waters where detergents or other chemicals have been used, tank hydrotest and ballast waters, contained fire fighting runoff, fire training water contaminated by contact with pollutants or containing foam or fire retardant additives, and unnecessary discharges of water or wastewater into secondary containment systems.

- * Discharge includes stormwater discharges and snow and ice removal. If applicable, a representative sample of snow and/or ice should be collected and allowed to melt prior to assessment.
- ** If the stored substance is gasoline or aviation fuel then sample for oil & grease, benzene, ethylbenzene, naphthalene, toluene and total xylenes (EPA method 602). If the stored substance is kerosene, diesel fuel, fuel oil, or lubricating oil then sample for oil & grease and polynuclear aromatic hydrocarbons (EPA method 610). If the substance(s) are listed in Tables 6-8 of SPDES application form NY-2C then sampling is required. If the substance(s) are listed in NY-2C Tables 9-10 sampling for appropriate indicator parameters may be required, e.g. BOD5 or toxicity testing. Contact the facility inspector for further guidance. In all cases flow and pH monitoring is required.

SPECIAL CONDITIONS - INDUSTRIAL POLLUTANT MINIMIZATION PROGRAM POLYCHLORINATED BIPHENYLS (PCBs)

1. The permittee shall develop, maintain, and implement a Pollutant Minimization Program (PMP). The PMP is required because the calculated water quality based effluent limit (WQBEL) of 0.001 nanograms/liter (ng/L) for Total PCBs is below the permit limit (quantification level) of 300 ng/L per Aroclor using EPA Method 608. The goal of this PMP will be to meet the calculated WQBEL. WITHIN 6 MONTHS OF COMPLETION OF CONSTRUCTION OF AN APPROVED WASTEWATER TREATMENT SYSTEM AND POSITIVE DISCHARGE FROM OUTFALL 008, USING EPA METHOD 608. The completed, approvable PMP plan shall be submitted to the Region 4 Water Engineer, 1130 North Westcott Road, Schenectady, New York 12306, and to the Bureau of Water Permits, 625 Broadway, Albany, New York 12233-3505, for approval. Subsequent modifications or renewal of this permit does not reset or revise this deadline unless a new deadline is set explicitly by such a permit modification or renewal.

2. The PMP 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 Best Management Practices Plan, may be used as part of the plan and may be incorporated by reference. As a minimum, the PMP plan shall include:

A. An on-going potential source identification, evaluation, and prioritization program.

B. Periodic monitoring designed to quantify and, over time, track the reduction of discharges of PCBs. As EPA Method 608 does not determine Total PCBs, monitoring using EPA Method 1668A is also required to determine the level of Total PCBs in the discharge. Minimum required monitoring is as follows: quarterly monitoring of wastewater treatment system influent(s), sludge(s), effluent(s), and outfall(s) which are known or suspected of containing PCBs; and, semi-annual monitoring of potential PCB sources except during the first year which shall be quarterly. This monitoring shall be performed using EPA Method 1668A and shall be coordinated with routine EPA Method 608 compliance monitoring, if applicable, so that the results can be compared. Additional PCB monitoring must be completed as may be required elsewhere in this permit.

C. An approvable schedule for submission of an approvable control strategy for reducing PCB discharges via cost-effective control measures, including but not limited to site treatment or remediation. The schedule for submission of a control strategy will become enforceable under this permit. The control strategy and the schedule for implementation of the control strategy will also become enforceable under this permit.

D. An approvable annual report shall be prepared and submitted to the Regional Water Engineer and to the Bureau of Water Permits by February 1of each year. This report shall summarize all PCB monitoring data (in a format acceptable to the Department - contact the permit writer to obtain an electronic spreadsheet for displaying EPA 1668A data); for treatment systems include a mass balance comparison of influent, effluent, and sludge levels; a list of known or potential PCB sources; all control measures implemented during the previous calendar year; monitoring, investigations, and control measures to be completed during the current calendar year; and document progress toward the goal of achieving the calculated WQBEL.

3. The PMP plan shall be modified whenever: (a)changes at the facility increase the potential for discharge of the PCBs, (b) actual discharges indicate the plan is inadequate, or (c) a letter from the Department identifies inadequacies in the PMP plan.

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SPECIAL CONDITIONS - INDUSTRIAL POLLUTANT MINIMIZATION PROGRAM MERCURY

1. The permittee shall develop, maintain, and implement a Pollutant Minimization Program (PMP). The PMP is required because the calculated water quality based effluent limit (WQBEL) of 0.7 nanograms/liter (ng/L) for Total Mercury is below the permit limit of 30 ng/L using EPA Method 1631. The goal of this PMP will be to meet the calculated WQBEL. **WITHIN 6 MONTHS OF THE EFFECTIVE DATE OF MODIFICATION TO THIS PERMIT**, the completed, approvable PMP plan shall be submitted to the Region 4 Water Engineer, 1130 North Westcott Road, Schenectady, New York 12306, and to the Bureau of Water Permits, 625 Broadway, Albany, New York 12233-3505, for approval. Subsequent modifications or renewal of this permit does not reset or revise this deadline unless a new deadline is set explicitly by such a permit modification or renewal.

2. The PMP 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 Best Management Practices Plan, may be used as part of the plan and may be incorporated by reference. As a minimum, the PMP plan shall include:

A. An on-going potential source identification, evaluation, and prioritization program.

B. Periodic monitoring designed to quantify and, over time, track the reduction of discharges of Mercury. Minimum required monitoring is as follows: monthly monitoring of wastewater treatment system influent(s), sludge(s), effluent(s), and outfall(s) which are known or suspected of containing Mercury; and, quarterly monitoring of potential Mercury sources, including raw materials, except during the first year which shall be monthly. This monitoring shall be performed using EPA Method 1631, and shall be coordinated with routine compliance monitoring, if applicable, so that the results can be compared. Additional Mercury monitoring must be completed as may be required elsewhere in this permit.

C. An approvable control strategy (including a schedule for implementation) for reducing Mercury discharges via cost-effective control measures, which may include but is not limited to site treatment or remediation. The schedule for implementation and the control strategy will become enforceable under this permit.

C. An approvable control strategy (including a schedule for implementation) for reducing Mercury discharges via cost-effective control measures, which may include but is not limited to site treatment or remediation. The schedule for implementation and the control strategy will become enforceable under this permit.

D. Treatment System Operation - The periodic monitoring required in item (2B) and elsewhere in this permit shall also be used. and supplemented if appropriate, to determine the most effective way to operate the wastewater treatment system(s) to ensure the greatest removal of Mercury while maintaining compliance with other permit requirements. For example, monitoring data may indicate that greater Mercury removals are achieved when the system(s) are operated below certain hydraulic loading thresholds.

E. An approvable annual report shall be prepared and submitted to the Regional Water Engineer and to the Bureau of Water Permits <u>by February lofeach year</u>. This report shall summarize all Mercury monitoring data; for treatment systems include a mass balance comparison of influent, effluent, and sludge levels; a list of known or potential mercury sources; all control measures implemented during the previous calendar year; monitoring, investigations, and control measures to be completed during the current calendar year; and document progress toward the goal of achieving the calculated WQBEL.

3. The PMP plan shall be modified whenever: (a) changes at the facility increase the potential for discharge of the Mercury, (b) actual discharges indicate the plan is inadequate, or (c) a letter from the Department identifies inadequacies in the PMP plan.

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DISCHARGE NOTIFICATION REQUIREMENTS

- (a) Except as provided in (c) 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 within 90 days of the Effective Date of this Modification.
- (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: | |
|--|--|
| SPDES PERMIT No.: NY OUTFALL No. : For information about this permitted discharge contact: Permittee Name: Permittee Contact: | |
| OUTFALL No. : For information about this permitted discharge contact: Permittee Name: | |
| For information about this permitted discharge contact: Permittee Name: Permittee Contact: | |
| Permittee Name: Permittee Contact: | |
| 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 five years.

(f) 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.

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RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS

- a) The permittee shall also refer to 6 NYCRR Part 750-1.2(a) and 750-2 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 at least five 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 <u>1</u> 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 Send the first copy (second sheet) of each DMR page to:

Department of Environmental Conservation Region 4 Water Engineer 1130 North Westcott Road Schenectady, New York 12306

Phone: (518) 357-2234

Phone: (518) 402-8177

4 1

- c) Noncompliance with the provisions of this permit shall be reported to the Department as prescribed in 6 NYCRR Part 750-1.2(a) and 750-2.
- 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 measurementsshall 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.

PERMIT LIMITS, LEVELS AND MONITORING DEFINITIONS

| OUTFAL | .L | | WASTEWATE | R TYPE | 1 | RECEIV | /ING W | ATER | EFFEC | TIVE | EX | PIRING |
|--|---|--|--|---|---|---|---|---|---|---|--|---|
| | | Thi for was | s cell describes the type of v discharge. Examples includ tewater, storm water, non-c | vastewat le proces ontact co | er authorized ss or sanitary poling water. | This cell lis waters of the the listed of | sts classin ne state to utfall dis | fied o which charges. | The date this page starts in effect. (e.g. EDP or EDPM) | | The dat is no lo effect. (| e this page nger in (e.g. ExDP) |
| PARAMI | PARAMETER MINIMUM | | | | M | AXIMUM | UNITS | | SAMPLE | FREQ. | SAM | PLE TYPE |
| e.g. pH, TRC, l'emperature, D.O. The minimum level that i maintained at all instants | | | ust be The maximum level that may be exceeded at any instant in | | | iy not n time. | SU, °I mg/l, e | 7, tc. | | | | |
| PARA- METER | PARA- EFFLUENT LIMIT METER | | | PRAC | TICAL QUAN LIMIT (PQI | TITATION L) | ACT LEV | ION /EL | UNITS | SAN FREQU | 1PLE JENCY | SAMPLE TYPE |
| | Lim Not dev strin requ or 1 stan der assu assu harc of t rece or r due per | nit typ e 1. elope ngent ired New idards ived impti impti dness his a eiving ules o proc | pes are defined below in The effluent limit is of based on the more of technology-based limits, under the Clean Water Act, York State water quality s. The limit has been based on existing ions and rules. These ons include receiving water , pH and temperature; rates nd other discharges to the stream; etc. If assumptions change the limit may, after ess and modification of this change. | For the assessin specific to more pollutar provide has co quality procedu Monito than thi shall m complia This P nor rais this per | e purposes of nent, the analyte d in the permit s nitor the amo nt in the outfall d that the labor- mplied with the assurance/qua tres in the relev ring results that s level must be toot be used to ance with the cal- QL can be neitted without a mo mit. | compliance tical method shall be used ount of the to this level, atory analyst he specified lity control ant method. at are lower reported, but to determine culated limit. ther lowered odification of | Type Typ Action ar monit require as de: below i 2, that addit monit and p review excee | e I or e II Levels e oring ments, fined n Note trigger ional oring ermit when ded. | This can include units of flow, pH, mass, Temperature, concentration Examples include µg/l, lbs/d, etc. | Examinelude 3/w wee 2/m mor quarter and y | nples Daily, veek, ekly, onth, nthly, rly, 2/yr vearly. | Examples include grab, 24 hour composite and 3 grab samples collected over a 6 hour period. |

Note 1: DAILY DISCHARGE.: The discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for the purposes of sampling. For pollutants expressed in units of mass, the 'daily discharge' is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the 'daily discharge' is calculated as the average measurement of the pollutant over the day.

DAILY MAX .: The highest allowable daily discharge. DAILY MIN .: The lowest allowable daily discharge.

MONTHLY AVG: The highest allowable average of daily discharges over a calendar month, calculated as the sum of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

7 DAY ARITHMETIC MEAN (7 day average): The highest allowable average of daily discharges over a calendar week.

30 DAY GEOMETRIC MEAN: The highest allowable geometric mean of daily discharges over a calendar month, calculated as the antilog of : the sum of the log of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

7 DAY GEOMETRIC MEAN: The highest allowable geometric mean of daily discharges over a calendar week.

RANGE: The minimum and maximum instantaneous measurements for the reporting period must remain between the two values shown.

<u>Note 2:</u> ACTION LEVELS: Routine Action Level monitoring results, if not provided for on the Discharge Monitoring Report (DMR) form, shall be appended to the DMR for the period during which the sampling was conducted. If the additional monitoring requirement is triggered as noted below, the permittee shall undertake a short-term, high-intensity monitoring program for the parameter(s). Samples identical to those required for routine monitoring purposes shall be taken on each of at least three consecutive operating and discharging days and analyzed. Results shall be expressed in terms of both concentration and mass, and shall be submitted no later than the end of the third month following the month when the additional monitoring requirement was triggered. Results may be appended to the DMR or transmitted under separate cover to the same address. If levels higher than the Action Levels are confirmed, the permit may be reopened by the Department for consideration of revised Action Levels or effluent limits. The permittee is not authorized to discharge any of the listed parameters at levels which may cause or contribute to a violation of water quality standards. TYPE I: The additional monitoring requirement is triggered upon receipt by the permittee of any monitoring results in excess of the stated Action Level. TYPE II: The additional monitoring requirement is triggered upon receipt by the permittee of any monitoring results that show the stated action level exceeded for four of six consecutive samples, or for two of six consecutive samples by 20 % or more, or for any one sample by 50 % or more.

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SPDES PERMIT FACT SHEET: Wastewater Data, Receiving Water Data, and, Permit Limit Derivation.

(see last pages of fact sheet for explanatory notes).

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| Date | June 15, 2007 |
|---------------|---------------------|
| Permit Writer | James M. Harrington |
| WQ Eugineer | Charles St Lucia |

(1) General Permittee Data:

| Permit Number | Permittee Name | Facility Name | Location (C, T, V) | County | Industrial Code | Major/Sub Basia |
|---------------|----------------|---------------|--------------------|--------|-----------------|-----------------|
| NY 000 4880 | Norlite Corp. | | Cohoes (C) | Albany | 1422/4953 | 12/01 |

(2) Summary of Final Outfall Flow Rate(s) and Receiving Water Data:

| | Outfall Information | | | * | Receiving Water Information | | | | | | | | | | | |
|--------------|---------------------|-----------|---------|----------------------|-----------------------------|-------|-----------------------|--|----------------|---------------------|------------|--------------|--------------------|--|--|--|
| | Latitude | Longitude | Flow R | ate (gpd) | | | | For use by WQ Engineer - Critical Data | | | | | | | | |
| Outfall # | °, ', " | ¢, ' ," | Average | Maximum or Design | Name | Class | Water Index Number | 7Q10 (MGD) | 30Q10 (MGD) | Dilution/ Mixing | pH (SU) | Temp (°F) | Hardness (mg/l) | | | |
| 003 | 42 45 14 | 73 40 20 | | | Sak Kill Creek | D | H-239 | INT. | | | - | - | ~ 100 | | | |
| 004 | | | 69,400 | 216,000 | Salt Kill Creek | D | H-239 | INT. | | | - | 1 | | | | |
| 06A | | | 64,000 | 70,000 | 006 | | | - | | | - | 1 | 4 | | | |
| 06B | | | 33,900 | 46,000 | 006 | | | - | | | - | - | u | | | |
| 005 | | | 97,900 | 116,000 | Mohawk River | С | H-240 | 223 | | | - | - | 4 | | | |
| 007 | | | | | Salt Kill Creek | D | H-239 | Tot. | | | - | + | 4 | | | |
| 800 | | | 860 | 30,000 | Salt Kill Creek | D | H-239 | INT. | | | - | - | Y | | | |
| 009 | | | UKN | UKN | Salt Kill Creek | D | H-239 | Int | | | - | - | 11 | | | |

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(3) Individual Outfall Data Summaries and Permit Limit Development: Disharge to Saft Kill - Class D

Outfall 003

| Source(s) of Wastewater | Quarry Water |
|---|--------------|
| Existing Wastewater Treatment Facilities | Settling |
| EPA Point Source Category & Production Rate | NA |

| Effluent Parameter (Units) | | Existing Effluent Quality | | | Technology Based Effluent Limit | | | | | Water Q | Permit | | | |
|---|----------------------------------|---------------------------|-------------------------|--|---------------------------------|-----------|-------|--------------|-----------------------|---------------|------------|--------------|------|--------------|
| (concentration units - mg/l, ug/l or ng/l; mass units - lbs/d or g/d) | concentration Avg/Max 95%/99% | | mass Avg/Max 95%/99% | | conc. | mass | Туре | PQL conc. | Basis | AWQC conc. | Effi | uent mass | Туре | (T or WQ) |
| WET TESTING | | | | | | NA | | | | | nended | YES * | | |
| Flow Rate (gpd) | Average | | Maximum | | | | | NA | | - | 1 | - | | |
| pH (su) | Minimum | | Maximum | | 6 0 - 9.0 | | Range | | BPJ, TOG5 1.2.1 | 6-9.5 | Tech | Oka | | |
| Solids, Total Suspended (mg/l) | | | | | 45 | C. Demoko | | | BPJ, TOGS 1.2.1 News, | 703,2 | 11 | 11 F | | |
| Solids, Total Dissolved (mg/l) | | | | | Monitor | | | | | | 11 | * | | |
| Solids, Settleable (ml/I) | | | | | 0,1 | | | | BPJ, TOGS 12.1 New, | 4 | " | " | | 1 |
| Mercury, Totai (ng/l) | | | | | 30 | | | | BPJ | 0.7 mg/2 | Mercu | 14 | | |
| | | | | | | | | | | , | Perm W. | 14 tila | | |

* WET Testing recommended on a flow proportioned combined sample from outfalls 003, 004 and 008.

004

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Outfall

(3) Individual Outfall Data Summaries and Permit Limit Development: Salt Kill - Class "O"

| Source(s) of Wastewater | Shale Fines Leachate & Storm Runoff from Landfill Area |
|---|--|
| Existing Wastewater Treatment Facilities | None |
| EPA Point Source Category & Production Rate | NA |

| Effluent Parameter (Units) | | Existing Effluent Quality | | | | Te | chnology I | Based Efflu | uent Limit | Water Q | nt Limit | Permit | | |
|---|----------------------------------|---------------------------|-------------------------|---------|-------|-------|------------|--------------|------------------------------|------------------------|-----------------|----------------------|--------|-----------------------|
| (concentration units - mg/l, ug/l or ng/l; mass units - lbs/d or g/d) | concentration Avg/Max 95%/99% | | mass Avg/Max 95%/99% | | conc. | mass | Турс | PQL conc. | Basis | AWQC (mg/2) eonc | (mg/c) conc. | luent mass | Туре | Basis (T or WQ) |
| WETTESTING | | | | | | | | NA | | Recom | mended | Y | ES* | |
| Flow Rate (gpd) | Average | 69,400 | Maximum | 216,000 | | | | NA | | | | | | |
| pH (su) | Minimum | | Maximum | | 6.0 | - 9.0 | Ra | nge | BPJ, TOGS 1.2.1 | 6-9.5 | Tech | Olean | | |
| Solids, Total Suspended (mg/l) | | | | | 45 | | | | BPJ, TOGS 1.2.1 News. | 703.2 | 11 | 11 | | |
| Temperature (^c F) | | | | | 90 | | | | Thermal Criteria, Part 704.2 | 704.2 | 4 | 1, | | |
| Cadmium, Total (mg/)l | | | | | 0.004 | | | | BPJ, TOGS 1.2.1 | 0.009 | Currer | limiter | | |
| Chromium, Total (mg.V) | | | | | 1.7 | | | | BPJ, TOGS 1.2.1 | 2.8 | 11 | 4 | | |
| Chromium, Hexavalent (mg/l) | | | | | 0.016 | | | | BPJ, TOGS 1.2.1 | 0.016 | 11 | " | | |
| Copper, Total (mg/l) | _ | | | | 0.018 | | | | BPJ, TOGS 1.2.1 | 0,024 | 11 | " | | |
| Lead, Total (mg/l) | | | | | 0.08 | | | | BPJ, TOGS 1 2.1 | 0,243 | " | 1/ | | |
| Mercury, Total (ng.1) | | | | | 30 | | | | BPJ | 0.7 Mg/2 | Merz. | fermit | writis | |
| Nickel, Total (mg/l) | | | | | 1.8 | | | | BPJ, TOGS 1.2.1 | 0.61 | 0.61 | | 1 | |
| Zine, Total (mg/l) | 4 | | | | 0.3 | | | | BPJ, TOGS 1.2.1 | 0.24 | 0.3 | ok | | |

* WET Testing recommended on a flow proportioned combined sample from outfalls 003, 004 and 008.

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(3) Individual Outfall Data Summaries and Permit Limit Development:

Outfall 06A -> To Outfall 006

| Source(s) of Wastewater | Treated Schibber Blowdown, Boiler Blowdown, and Trunnion Non Contact Cooling Water |
|---|--|
| Existing Wastewater Treatment Facilities | Equalization, Flocculation, Chemical Addition and Precipitation, Filtration, and Sulfur Impregnated Activated Carbon Filters |
| EPA Point Source Category & Production Rate | NA |

| Effluent Parameter (Units) | | | | Te | chnology F | Based Effluer | nt Limit | Water Q | nt Limit | Permit | | | | |
|---|----------------------------------|--------|-------------------------|--------|------------|---------------|----------|--------------|-----------------|-----------------|---------------|--------------|------|-----------------------|
| (concentration units - mg/l, ug/l or ng/l; mass units - lbs/d or g/d) | concentration Avg/Max 95%/99% | | mass Avg/Max 95%/99% | | conc. | mass | Туре | PQL conc. | Basis | - AWQC conc. | Effl conc. | uent mass | Туре | Basis (T or WQ) |
| WET TESTING | | | | | | | | NA | | Recomm | iended? | YES | 5/NO | j de la |
| Flow Rate (gpd) | Average | 64,000 | Maximum | 70,000 | | ж | | NA | | | | | | |
| pH (su) | Minimum | | Maximum | | 6.0 | . 9.0 | Ra | nge | BPJ, TOGS 1.2.1 | | | | | |
| Arsenic, Total (lbs/day) | | | | | | 0.11 | | | BPJ, TOGS 1.2.1 | | | | | |
| Barium, Tetal (lbs/day) | | | | | | 2.88 | | | BPJ, TOGS 1.2.1 | | | | | |
| Beryllium, Total (lbs/day) | | | | | | 1.44 | | | BPJ, TOGS 1.2.1 | | | | | |
| Cadmium, Total (lbs/day) | | | | | | 0.04 | | | BPJ, TOGS 1.2.1 | | | | | |
| Chromium, Total (lbs/day) | | | | | | 0.14 | | | BPJ, TOGS 1.2.1 | | | | | |
| Copper, Total (lbs/day) | | | | - | | 0.66 | | 1 | BPJ, TOGS 1.2.1 | | | | | |
| Irea, Total (Ibs/day) | | | | | | 2.88 | | - | BFJ, TOGS 1.2.1 | | | | | |
| Lead, Total (lbs/day) | | | | | | 0.43 | | | BPJ TOGS 1.2.1 | _ | | | | - |
| Nickel, Total (lbs/day) | | | | | | 0,94 | | | BPJ, TOGS 1.2.1 | | | | | - |
| Selenium, Total (lbs/day) | | | | | | 0.07 | | | BPJ, TOGS 1.2,1 | | | | | |
| Zinc, Total (lbs/day) | | | | | | 0.65 | | | BFJ, TOGS 1.2.1 | | | | | |

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06B -> To Outfall 006 Outfall

| Source(s) of Wastewater | Trunnion Non Contact Cooling Water |
|---|------------------------------------|
| Existing Wastewater Treatment Facilities | None |
| EPA Point Source Category & Production Rate | NA |

| Effluent Parameter (Units) | | Existing Efflu | | Te | ased Effluent | Water Q | Permit | | | | | | | |
|---|-------------------|----------------|---------------|-------------------------|---------------|---------|--------|--------------|-------|---------------|-----------------|------|------|--------------|
| (concentration units - mg/l, ug/l or ng/l, mass units - lbs/d or g/d) | concer Avg/Max | tration | m: Avg/Max | mass Avg/Max 95%/99% | | mass | Туре | PQL conc. | Basis | AWQC conc. | , Effl conc. | mass | Туре | (T or WQ) |
| WET TESTING | | | | | | | | NA | | Recom | nended? | YES | NO | |
| Flow Rate (gpd) | Average | 33,900 | Maximum | 46,000 | - | | | NA | | | - | | | |

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(3) Individual Outfall Data Summaries and Permit Limit Development: To Mohawk River - Class C

Outfall 006

E

| Source(s) of Wastewater | Combined 06A and 06B |
|---|----------------------|
| Existing Wastewater Treatment Facilities | None |
| EPA Point Source Category & Production Rate | NA |

| Effluent Parameter (Units) | | Existing Efflu | uent Quality | | Technology Based Effluent Limit | | | | | | Water Quality Based Effluent Limi | | | |
|---|-------------------|------------------|--------------|----------------|---------------------------------|-------|------|--------------|-------------------------|---------------|-----------------------------------|--------------|------|--------------|
| (concentration units - mg/l, ug/l or ng/l; mass units - lbs/d or g/d) | concer Avg/Max | atration 95%/99% | m Avg/Max | ass 95%/99% | conc. | mass | Турс | PQL conc. | Basis | AWQC conc. | Effi | uent mass | Туре | (T or WQ) |
| WET TESTING | | •• | | | | | | NA | and the second | Recomm | ended? | YES | VNO | |
| Flow Rate (gpd) | Average | 97,900 | Maximum | 116,000 | | | | NA | | | | | | |
| pH (su) | Minimum | | Maximum | | 6.0 | - 9.0 | Ra | nge | BPJ, TOGs 1.2.1 | 65-85 | Tech | olcay | | |
| Solids, Total Suspended (lbs/day) | | | | | | 66 | | | BPJ. TOGS 1.2.1 Newr. | 703.2 | и | " | | |
| Solids. Tetal Dissolved (g/l) | | | | | Monitor | | | | | 500 m/ | Mor | okay | | |
| Ammonia (as NH ₃) (mg/l) | | | | | Monitor | | | | | 15/2.2" | Mor, | okay | | |
| Chlorides (mg//l) | | | | | Monitor | | | | "A" | 250 " | Mor, | okay | | |
| Chlorine, Total Residual (mg/l) | | | | | Monitor | | | | | 0.005 " | No. | olin | Sec. | |
| Temperature (^C F) | | | | | 115 | | | | Operational Necessity** | 704.2 | Teol | olay | | |
| Mercury, Total (ng/l) | | | | | 30 | | | | врј | 0. Thigle | Marc | fermi | 4 | |

Writing

** Temperature shall not exceed °F at the end of pipe, approximately a 2 mile run to the Mohawk River.

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(3) Individual Outfall Data Summaries and Permit Limit Development: To Saff Kill - Class D

Outfall 007

| Source(s) of Wastewater | Storm Runoff from Production Area |
|---|-----------------------------------|
| Existing Wastewater Treatment Facilities | None |
| EPA Point Source Category & Production Rate | NA |

| Effluent Parameter (Units) | luent Parameter (Units) Existing Effluent Quality | | | | | Te | chnology B | Water Q | nt Limit | Permit | | | | |
|--|---|----------|---------|---------|-------|-------|------------|---------|-----------------------|--------|--------|--------|------|--------------|
| (concentration units - mg/l, ug/l or ng/l; mass units - lbs/d | | itration | m | ass | | | Terra | PQL | Paris | AWQC | Eff | fluent | | (T or WQ) |
| or g/d) | Avg/Max | 95%/99% | Avg/Max | 95%/99% | conc. | mass | Type | conc. | Basis | conc. | conc. | mass | Type | |
| WET TESTING | | | | | | | | NA | | Recomm | ended? | YES | NO | |
| Flow Rate (gpd) | Average | | Maximum | | | | | NA | | | | | | |
| pH (su) | Minimum | | Maximum | | 6.0 | - 9.0 | Ra | nge | BPJ, TOGS 1.2.1 | 6-9.5 | Tech | okay | | |
| Solids, Total Suspended (ing/l) | | | | | 45 | | | | BPJ. TOGS 1.2.1 Navr. | 703.2 | Tech | olean | | |
| Solids, Settleable (ml/l) | | | | | 0.1 | | | | BPJ, TOGS 1.2.1 Navy. | 703.2 | Tech | olcay | | |
| Oil & Grease (mg/l) | | | | | 15 | | | | BPJ, TOGS 1.2.1 Naw | 703.2 | Ted | okay | | |

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008 Outfall

(3) Individual Outfall Data Summaries and Permit Limit Development: To SaH Kill - Class "D"

| Source(s) of Wastewater | Storm Runoff from Tanker Truck Staging Area |
|---|---|
| Existing Wastewater Treatment Facilities | Activated Carbon |
| EPA Point Source Category & Production Rate | NA |

| Effluent Parameter (Units) | | | | Te | chnology B | ased Effluer | nt Limit | Water Q | nt Limit | Permit | | | | |
|---|-------------------|------------------|---------------|----------------|------------|--------------|----------|--------------|----------------------|-------------------------|--------------------------|--------------|------|-----------------------|
| (concentration units - mg/l, ug/l or ng/l; mass units - lbs/d or g/d) | concen Avg/Max | stration 95%/99% | ma Avg/Max | ass 95%/99% | conc. | inass | Туре | PQL conc. | Basis | AWQC (ugfic) conc | Effl (eg/c) conc.) | uent mass | Туре | Basis (T or WQ) |
| WET TESTING | | | | | | | | NA | Recom | nended | YES* | | | |
| Flow Rate (gpd) | Average | 860 | Maximum | 30,000 | | | | NA | | | | | | |
| pH (su) | Minimum | | Maximum | | 6.0 | - 9.0 | Ra | uge | BPJ, TOGS 1.2.1 | 4-9.5 | Trech | Okay | | |
| Acenaphthene (ug/l) | | | | | 10 | | | | BPJ, TOGS 1.2.1 "D | " 48 | H | u | | |
| Acenaphthylene (µg/l) | | | | | 10 | | | | BPJ, TOGS 1.2.1 0 | " 48 | 11 | 11 | | |
| Acetonitrile (µg/l) | | | | | 50 | | | | BPJ, TOGS 1.2.1 | - | " | ц | 1 | |
| Acetone (µg/l) | | | | | 10 | | | | BPJ, TOGS 1.2.1 "A | \$ 50 | " | 4 | | |
| Acetopenone (µg/l) | | | | | 10 | | | | BPJ, TOGS 1.2.1 | - | 11 | 4 | | |
| Acrylonitrile (µg/l) | | | | | 100 | | | | BPJ, TOGS 1.2.1 4 | 0.07 | " | a | | |
| Anthracene (µg/l) | | | | | 10 | | | | BPJ, TOGS 1.2.1 💋 | 35 | 11 | 4 | | |
| Antimony, Total (µg/l) | | | - | | 100 | | | | BPJ, TOGS 1.2.1 7 | i 3 | 14 | н | | |
| Benzene (µg/l) | | | | | 5 | | | | BPJ, TOGS 1.2.1 | " 10 | u | 4 | | |
| Benzidine (µg/l) | | | | | 10 | | | - | BPJ, TOGS 1.2.1 D | " 0.1 | 0.1 | | | |
| Benzota)phyrene (µg/l) | | | | | 10 | - | | | BPJ, TOGS 1.2.1 D | 1 0.0012 | 0.002 | | | |
| Benzo(ghi)phyrene (µg/l) | | | | | 10 | | | | 3PJ, TOGS 1.2.1 | - | Tech | oleng | | |
| Benzo(k)fluoranthene (µg/l) | | | | | 10 | | | | BPJ, TOGS 1.2.1 ** A | " 0.002 | 11 | 4 | | |
| Bromoform (µg/l) | | | | | 50 | | | | BPJ, TOGS 1 2.1 "A | " 50 | 4 | и | | |
| Butylbenzyl plathlate (agd) | | | | | 10 | | | | BPJ. TOGS 1 2.1 Y | " 50 | - 4 | 11 | | |

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(3) Individual Outfall Data Summaries and Permit Limit Development:

Outfall

008, Continued

| Effluent Parameter (Units) | | Existing Efflo | uent Quality | | | Te | chnology B | lased Efflue | ent Limit | Water Q | nt Limit | Permit | | |
|---|----------------------------------|----------------|-------------------------|--|-------|------|------------|--------------|-----------------------|-------------------------|----------|--------------|------|-----------------------|
| (concentration units - mg/l, ug/l or ng/l; mass units - lbs/d or g/d) | concentration Avg/Max 95%/99% | | mass Avg/Max 95%/99% | | conc. | mass | Туре | PQL conc. | Basis | AWQC (ugle) conc. | Effi | uent mass | Туре | Basis (T or WQ) |
| Carbon Disulfide (µg/l) | | | | | 10 | | | | BPJ. TOGS 1.2.1 | - | Tech | olean | | |
| Carbon Tetrachlonde (µg/l) | | | | | 10 | | | | BPJ. TOGS 1.2.1 · "A" | 0.4 | Tech | olean | | |
| Chlordane (µg/l) | | | | | - 10 | | | | вр. тодя 1.2 1 "Д" | Z×10-5 | 2×10-5 | | | |
| Chlorobenzene (µg/l) | | | | | 25 | | | | вр. тодs 1.2.1 "Д" | 400 | Tech | olean | _ | |
| bis (2Chloroethyl)Ether (ug/l) | | | | | 10 | | | | BPJ. TOGS 1.2.1 "A" | 0.07 | 11 | 11 | | |
| Chloroform (µg/l) | | | | | 100 | | | | BPJ. TOGS 1.2.1 "A" | 7 | 11 | " | | |
| 2 - Chlorophenol (µg/l) | | | | | 10 | | | | BPJ, TOGS 1.2.1 | - | п | 4 | | |
| m - Cresol (µg/l) | | | | | 50 | | | | BPJ, TOGS 1.2.1 | - | 11 | "" | | |
| o - Cresol (µg/l) | | | | | 50 | | | | BPJ. TOGS 1.2.1 | - | 4 | " | | |
| Chrysene (µg/i) | | | | | 10 | | | | BPJ, TOGs 1.2.1 "A" | 0.002 | " | 4 | | |
| Dibenzo(ah)anthracene (µg/l) | | | | | 10 | | | | BPJ, TOGs 1.2.1 | - | 11 | ч | | |
| Dibenzofuran (µg/l) | | | | | 10 | | - | | BPJ, TOGs 1.2.1 | - | н | " | | |
| 1,2 - Dichlorobenzene (ug/l) | | | | | 10 | | | | BPJ, TOGS 1.2.1 | 250 | - (1 | 11 | | |
| 1,3 - Dichlorobenzene (µg/l) | | | | | 10 | | | | BPJ, TOGs 1.2.1 | 250 | 11 | 11 | | |
| 1,4 - Dichlorobenzenc (µg/l) | | | | | 10 | | | | BPJ, TOGs 1.2.1 | \$ 50 | 11 | -14 | | |
| 3.3 - Dichlorobenzidine (ng/l) | | | | | 20 | | | | BPJ, TOGs 1.2.1 "A" | 5 | 4 | 11 | | |
| 1,2 - Dichloroethane (ug/l) | | | | | 10 | | | | BPJ. TOGS 1.2.1 "A" | 0.6 | 11 | 11 | | |
| 2,4 - Dichlorophenol (µg/l) | | | | | 10 | | | | BPJ, TOGS 1.2.1 """ | 1 | 1 | | | |
| 2,6 - Dichlerophenol (µg/l) | | | | | 10 | | | | BPJ, TOGS 1.2.1 | - | Tech | pleay. | | |
| 1,2 - Dichloropropane (µg/l) | | | | | 10 | | | | BP1, TOGS 1.2.1 "A | 1 | Ted | olcay. | | |
| 2,4 - Dimethylphenol (µg/l) | | | | | 50 | | | | BPJ, TOGS 1,2.1 | 5 | 5 | | | |
| Dimethyl Phihlate (µg/l) | | | | | 25 | | | | BPJ, TOGS 1.2.1 A | 50 | Tech | okay | | |

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(3) Individual Outfall Data Summaries and Permit Limit Development:

008, Continued Outfall

| Effluent Parameter (Units) | | Existing Efflu | uent Quality | | | Te | chnology I | Based Efflue | ent Limit | Water Q | nt Limit | Permit | | |
|---|-------------------|------------------|--------------|----------------|-------|------|------------|--------------|--|-------------------------|----------|--------------|--------|-----------------------|
| (concentration units - mg/l, ug/l or ng/l; mass units - lbs/d or g/d) | concer Avg/Max | ntration 95%/99% | m Avg/Max | ass 95%/99% | conc. | mass | Туре | PQL conc. | Basis | AWQC (49/L) conc. | (ug/2) | uent mass | Туре | Basis (T or WQ) |
| Ethylbenzene (µg/l) | | | | | 50 | | | | BPJ, TOGS 1.2.1 🖔 " | 150 | Tech | olean | | |
| Fluoranthene (µg/l) | | | | | 10 | | | | BPJ, TOGS 1.2.1 "A" | 50 | Tech | olan | | |
| Fluorene (µg/l) | | | | | 10 | | | | BPJ. TOGS 1.2.1 p | 4.8 | 4.8 | - | | |
| Heptachlor (µg/l) | | | | | 10 | | | | BPJ. TOGS 1.2.1 "D" | 2×10-4 | Zxp4 | | | |
| Hexachlorobenzene (µg/l | | | | | 10 | | | | вр. тодs 1.2.1 "Д" | 3×10-5 | 3×10-3 | | | |
| Hexachlorobutadiene (µg/l) | | | | | 10 | | | | BPJ, TOGs 1.2.1 """" | 0.01 | 0.01 | | | |
| Hexachloroethane (µg/l) | | | | | 10 | | | | BPJ. TOGS 1.2.1 D | 0.6 | 0.6 | | | |
| Isobutanol (µg/l) | | | | | 50 | | | | BPJ, TOGS 1.2.1 | - | Tech | oleng | | |
| Isophotone (µg/l) | | | | | 50 | | | | BPJ. TOGS 1.2.1 | - | Tech | olean | | |
| Mercury, Total (ng/l) | | | | | 30 | | | | BPJ | 0.7 Nal | e Merr. | Permit | Witing | |
| Methacrylonite (µg/l) | | | | | 50 | | | | BPJ, TOGS 1.2.1 | - | Tech | olean | * | |
| Methoxchlor (µg/l) | | | | | 50 | | | | BPJ, TOGS 1.2.1 | - | Tech | oleany | | |
| Methyl Methacrylate (µg/l) | | | | | 50 | - | | | BPJ, TOGS 1.2.1 | - | Tech | oleany | | |
| Naphthalene (µg/l) | | | | | 10 | | | | BPJ. TOGS 1.2.1 p | 110 | Tech | okny | | |
| 1 - Naphthylamine (µg/l) | | | | | 10 | | | | BPJ, TOGS 1.2.1 | - | n | 11 | | |
| Nitrobenzene (µg/l) | | | | | 50 | | | | BPJ, TOGS 1.2.1 "A" | 0.4 | n | 4 | | - |
| PCBs, Total (ng/l) | | | | | | | | | Indicated by Arociors $\dot{\phi}^{H}$ | 1x 10-6 | Pemi- | ł | | |
| Arock:: 1016 (ng/l_ | | | | | 300 | | | | BPJ * | 11 | Wri | ting | | |
| Arochlot 1221 (ng/l) | | | | | 300 | | | | BPI * | " | F | or | | |
| Arochlor 1232 (agl) | | | | | 300 | | | | BPJ " | i I | P | CB'S | | |
| Arochior 1242 (ng/l) | | | | | 300 | | | | BBJ | 1 | h | 11 | | |
| Arochlor (254 (ag/l) | | | | | 300 | | | | BPJ | *6 | 41 | 11 | | |

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(3) Individual Outfall Data Summaries and Permit Limit Development:

Outfall

008, Continued

| Effluent Parameter (Units) | | Existing Efflu | uent Quality | | Technology Based Effluent Limit | | | | | | uality Bas | Water Quality Based Effluent Limit | | | | |
|---|-------------------|--------------------|--------------|----------------|---------------------------------|------|------|--------------|---------------------------------|--------------------------|---------------|------------------------------------|---------|--------------|--|--|
| (concentration units - mg/l, ug/l or ng/l; mass units - lbs/d or g/d) | concen Avg/Max | tration 95%/99% | m Avg/Max | ass 95%/99% | conc | mass | Туре | PQL conc. | Basis | AWQC (ug/L) conc.) | Effi conc. | uent mass | Туре | (T or WQ) | | |
| Arochlor 1260 (ng/l) | | | | | 300 | | | | BPJ | 1×10-6 | PCB | Permit. | whiting | | | |
| Pentachlorophenol (µg/l) | | | | | 10 | | | | BPJ, TOGS 1.2.1 "D" | 14.5 | 14.5 | Techo | leave | | | |
| Phenanthrene (µg/l) | | | | | 10 | | | | BPJ, TOGs 1.2.1 "p" | 45 | Tuck | loka | V | | | |
| Phenol (µg/i) | | | | | 50 | | | | BPJ. TOGS 1.2.1 """"" | 5 | 5 | V | | | | |
| Propoinitrile (ug/l) | | | | | 50 | | | | BPJ, TOGS 1.2.1 | - | Tech | olean | | | | |
| Pyrene (ug/l) | | | | | 10 | | - | | BFJ. TOGS 1.2.1 "D" | 42 | Tech | oleany | | | | |
| Styrene (µg/l) | | | | | 10 | | | | BPJ. TOGS 1.2.1 "A" | 5 | Tech | okan | | | | |
| Tetrachlorcehtylene (ug/l) | | | | | 10 | | | | BPJ, TOGs 1.2.1 10 | 1 | 1 | r | | | | |
| Tohuene (µg/i) | | | _ | | 5 | | | | . BPJ, TOGS 1.2.1 "D" | 480 | Tech | olean | | | | |
| o - Toluidine (µg/l) | | | - | | 50 | | | | BPJ, TOGS 1.2.1 A | 0.6 | Tech | olean. | | | | |
| 1,1,1 - Trichloroethane (µg/l) | | | | | 10 | | | | BPJ, TOGS 1.2.1 "A" | 5 | Tech | olean | | | | |
| 1,1,2 - Trichloroethane (µg/l) | | | | | 10 | | | | BPJ, TOGS 1.2.1 "A" | 1 | Tech | olan | | | | |
| Trichlotoethylene (µg/l) | | | | | 10 | | | | BPJ, TOGS 1.2.1 """ | 40 | Tech | diay | | | | |
| 2.4,5 · Trichlorophenol (µg/l) | | | | | 10 | | | | BPJ, TOGS 1.2.1 "D" | 5 | 5 | | | | | |
| 2,4,6 - Trichlorophenol (µg/l) | | | | | 10 | | | | BPJ, TOGS 1.2.1 'O' | 5 | 5 | | | | | |
| Trichlorotrifluoroethane (ug/l) | | | | | 10 | | | | BPJ, TOGS 1.2.1 "A" | | Tech | olean | | | | |
| p · Xylene (jug1) | | | | | 5 | | | - | BPJ, TOGs 1.2.1 "D ⁴ | 1= 590 | Tech | olean | | | | |

* WET Testing recommended on a flow proportioned combined sample from outfalls 003, 004 and 008.

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(3) Individual Outfall Data Summaries and Permit Limit Development:

Outfall

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009

Salt Creek - Class "O"

0004880

| Source(s) of Wastewater | Storm Runoff from Advanced Liquid Recycling Area | | | | |
|---|--|--|--|--|--|
| Existing Wastewater Treatment Facilities | None | | | | |
| EPA Point Source Category & Production Rate | NA | | | | |

| Effluent Parameter (Units) | Existing Effluent Quality | | | Technology Based Effluent Limit | | | | Water Quality Based Effluent Limit | | | | Permit | | |
|---|---------------------------|---------|---------|---------------------------------|---------|-------|--------------|------------------------------------|-----------------------|----------|-------|--------|------|----------------|
| (concentration units - mg/l, | concentration | | mass | | | | | PQL | | AWQC Eff | | luent | | Basis (T or |
| ug/l or ng/l; mass units - lbs/d or g/d) | Avg/Max | 95%/99% | Avg/Max | 95%/99% | conc. | mass | Туре | conc. | Basis | conc. | conc. | mass | Туре | WQ) |
| WET TESTING | | | NA | | | | Recommended? | | YES | NO | | | | |
| Flow Rate (gpd) | Average | UKN | Maximum | | | | | NA | | | | | | [|
| pH (su) | Minimum | | Maximum | | 6.0 | - 9.0 | Rai | nge | BPJ, TOGS 1.2.1 | 6-95 | Tech | okan | | |
| Glycels (mg/l) | | | | | Monitor | | | | | | Mali | olcor | | |
| Oil & Grease (mg/l) | | | | | 15 | | | | BPJ, TOGs 1.2.1 Nam | 703.2 | Tech | dean | | |
| Solids, Total Suspended (mg/l) | | | | | 45 | | | | BPJ. TOGS 1.2.1 Navy, | 703.2 | Tech | olean | 8 | |

| | | | T | 12 | | 1. | 1 |
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(4) Additional Issues:

Water Quality Based Effluent Limits (WQBELs):

New York State water quality regulations (for surface waters) are implemented by applying the Total Maximum Daily Load (TMDL) process to watersheds, drainage basins or waterbody segments on a pollutant specific basis. The analysis determines if there is a "reasonable potential" that the discharge of a pollutant will result in exceedance of ambient water quality criteria (AWQC). If there is a reasonable potential for an exceedance of AWQC, the TMDL is used to establish waste load allocations for point sources and load allocations for nonpoint sources of the pollutant. For point sources, the waste load allocations are translated to WQBELs for inclusion in SPDES permits. Reference - TOGS 1.3.1. USEPA Guidance for Water Quality - Based Decisions: The TMDL Process, 40 CFR 130 and the Clean Water Act 303(d).

The following table has been completed only for those parameters for which WQBELs were determined to be necessary.

| Parameter | | | |
|-------------------------------|---|--|--|
| Amount to be Allocated (TMDL) | | | |
| Number of Sources | | | |
| Allocation to this Permit | - | | |

Statistics:

The statistical methods utilized are consistent with TOGS 1.2.1 and the USEPA, Office of Water, Technical Support Document For Water Quality-based Toxics Control, March 1991, Appendix E. Generally based on lognormal analysis. If other data distributions such as normal of delta-lognormal are utilized it is noted below. Statistical calculations were not performed for parameters with insufficient data. Generally, ten or more data points are needed to calculate percentiles. Two or more data ponts are necessary to calculate an average and a maximum. Nondetects were included in the statistical calculations at the reported detection limit unless otherwise noted.

Monitoring data collected during the following time period was used to calculate statistics:

This data was taken from the following source(s): DMRs; NY2-C Application, dated 6/11/03; analytical Data Package, dated 7/17/06

Internal Waste Stream Monitoring:

40 CFR 122.45(h)(1) allows the permit authority to monitor and limit parameters at internal locations when controlling them solely at the final outfall is impractical or infeasible. Dilution of a process wastewater with large volumes of cooling water and/or storm water is one example of when the use of an internal monitoring point is justified. Monitoring at the following internal outfalls is necessary for the reasons specified:

WET Testing:

Testing is required, in accordance with TOGS 1.3.2, for the following reasons: Unknown synergistic toxicity effects of the discharge of various metals and numerous hazardous substances to Salt Kill Creek.

Indicator Parameters:

In accordance with 40 CFR 122.44(e)(2), The permit writer has determined that effective treatment and/or acceptable performance for specific parameters is indicated by one or more other parameters which are limited and therefore a decision has been made to not limit or monitor these specific parameters. This judgement is based on the similarity between this and the regulated parameter(s) and historical data where available. The use of indicator parameters is not appropriate for WQBELs. Following is a list of the affected parameters:

Schedule of Compliance: None.

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(5) Summary of Proposed Permit Changes:

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Compared to the issued permit this draft is intended to replace, the following significant changes are proposed -The permittee has applied for a new outfall 008; a field inspection has discovered a previously unknown outfall 009; the permittee is expanding the mining area by 54 acres that will involve the construction of an overburden storage area which will affect the storm runoff to outfalls 003 and 007. The proposed modifications to the current permit (effective 5/1/04) are:

Add effluent limits and monitoring requirements for Mercury, Settleable Solids, and Total Dissolved Solids at outfall 003.

Decrease effluent limit for Nickel at outfall 004 to reflect new water quality limit.

Add offluent limits and monitoring requirements for Total Suspended Solids, Oil & Grease, and Settleable Solids at outfall 007.

- Add effluent limits and monitoring requirements for various parameters present in the hazardous waste fuel used to heat the trunnions at outfall 008. This outfall serves storm runoff from the tanker truck staging area where trucks carrying the hazardous waste fuel are parked while awaiting their turn to unload their contents into the fuel storage tanks.
- Add effluent limits and monitoring requirements for various parameters at outfall 009. This outfall serves storm runoff from the Advanced Liquid Recycling Area, where glycols are recovered and recycled.

Add Whole Effluent Toxicity (WET) testing on the combination of flows from outfalls 003, 004, and 008. This is added due to the unknown synergistic toxicity effects of the discharge of various metals and numerous hazardous substances to Salt Kill Creek, an intermittent stream.

Add additional footnotes to define sampling and/or analytical methods required for various parameters at the appropriate outfalls. Update the map on the monitoring locations page.

Update the Best management Practices requirements to those now routinely used in SPDEs permit development.

Add Pollutant Minimization Program requirements for PCBs.

Add Pollutant Minimization Program requirements for Mercury.

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(6) Explanatory Notes:

| Please note that se | ome of these terms are not applicable to every fact sheet. |
|---------------------|--|
| AI | Action level calculated in accordance with TOGS 1.2.1 (non POTWs) and TOGS 1.3.3 (POTWs). See the permit for a |
| | complete definition. |
| AVG or Av - | Average. The arithmetic mean. |
| AWQC - | Ambient water quality criteria for the receiving water. The applicable standard, guidance value or estimated value in accordance with TOGS 1.1.1, TOGS 1.3.1 and 6NYCRR 700-705. |
| Bàsis - | The technical analysis, internal guidance, regulation and/or law upon which an effluent limit or monitoring requirement is proposed. |
| BAT ~ | Best Available Technology Economically Achievable in accordance with TOGS 1.2.1 (non POTWs) and TOGS 1.3.3 (POTWs), 40 CFR 125, 6NYCRR 754, ECL 17-0811 and the Clean Water Act. |
| BCT - | Best Conventional Control Technology in accordance with TOGS 1.3.4, 40 CFR 125, 6NYCRR 754, ECL 17-0811 and the Clean Water Act. |
| BPJ - | Best Professional Judgement in accordance with TOGS 1.2.1 (non POTWs) and TOGS 1.3.3 (POTWs), 40 CFR 122 and 125. 6NYCRR 754.1, ECL 17-0811 and the Clean Water Act. |
| BPT - | Best Practicable Control Technology in accordance with TOGS 1.2.1, 40 CFR 125, 6NYCRR 754, ECL 17-0811 and the |
| Contra | Concentration in units of mg/l ug/l or ng/l |
| Darian Flow | Treatment system design capacity as noted in an approved engineering report. |
| Design Flow - | Final permit period requirements. A level of performance that must be achieved according to a schedule specified in either |
| r mai = | the permit or a consent order. |
| u/d - | Grams per day discharged. |
| GW | Groundwater effluent limitation developed in accordance with TOGS 1.2.1 (nonPOTWs), TOGS 1.3.3 (POTWs), TOGS 1.1.2 and 6NYCRR 703. |
| Ind - | Indicated parameter. See definition in section (4). |
| Interim - | Interim permit period requirements. A level of performance that must be achieved while improvements are being implemented in order to achieve final permit period requirements. |
| lbs/d or #/d - | Pounds per day discharged. |
| Mass - | Mass discharge in units of #/d or g/d discharge. |
| Max or Mx - | The maximum value. |
| MGD - | Million gallons per day. |
| mg/l - | Milligrams per liter. |
| Dilution/Mixing | - Used to determine dilution available in receiving waters. For lakes, estuaries and slowly flowing rivers and streams, mixing zone dilution is generally assumed to be 10:1 unless data is available to indicate otherwise. |
| Model - | Calibrated water quality model applied in accordance with TOGS 1.3.1. |
| Mon - | Monitor only. |
| NA - | The characteristics of this parameter and the reported discharge levels do not justify routine monitoring or a limit Also indicates "not applicable". |
| ng/1 - | Nanograms per liter. $1000 \text{ ng/l} = 1 \text{ ug/l} = 0.001 \text{ mg/l}.$ |
| PQL - | The DEC published or site specific practical quantitation limit; the concentration in wastewater at which analytical results are |
| | thought to be accurate to within approximately plus or minus thirty percent. |
| R - | "Rolled Over", i.e. the specific requirement in this permit is equivalent to the previous permit. R(T) is roll over of a technology based requirement and R(WQ) is roll over of a WQBEL. |
| Range - | The discharge is limited to a range of effluent values, e.g. a pH limit of (6.0-9.0) SU. |
| RREL - | EPA's Risk Reduction Engineering Laboratory treatability database. |
| Τ- | Technology based effluent limit or requirement. |
| TOGS - | Technical and Operational Guidance Series. Internal guidance to permit drafters used by the NYSDEC Division of Water to aid in permit drafting. Copies of these guidance documents may be obtained from the internet at |

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| | and an | | 1 1.00- | | | 10 | 10.00 |

| | http://www.dec.state.ny.us/website/dow/togs/index.htm. |
|---------|--|
| ug/I - | Micrograms per liter. $1000 \text{ ug/l} = 1 \text{ mg/l}.$ |
| WET- | Whole Effluent Toxicity (testing). See TOGS 1.3.2. |
| WQ - | Water quality. |
| WQBEL - | Water quality-based effluent limit. See information in section (4). |
| 7Q10 - | The minimum average 7 consecutive day flow at a recurrence interval of 10 years. Applicable to evaluations involving aquatic health based AWOC |
| 30Q10 - | The minimum average 30 consecutive day flow at a recurrence interval of 10 years. Applicable to evaluations involving human health based AWOC |
| 95% | The 95th percent confidence interval for the historical effluent data used to draft the permit, |
| 99% - | The 99th percent confidence interval for the historical effluent data used to draft the permit. |
| 133 - | Secondary treatment requirements in accordance with TOGS 1.3.3, 40 CFR 133, 6NYCRR 754, ECL 17-0509 and the Clean Water Act |
| ÷ 4 | These parameters represent scans. Detertions vary among the comparinds which are included in the scans. The listed ashes represent the main target the |

level of any compound in the scan.