

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION I - NEW ENGLAND  
OFFICE OF ECOSYSTEM PROTECTION  
ONE CONGRESS STREET  
BOSTON, MASSACHUSETTS 02114-2023**

**FACT SHEET**

**DRAFT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
PERMIT TO DISCHARGE TO WATERS OF THE UNITED STATES**

**DATE OF PUBLIC NOTICE:**

**NPDES PERMIT NO.:** MA0020320

**NAME AND ADDRESS OF APPLICANT:**

Holden Trap Rock Company  
Division of Massachusetts Broken Stone Company  
2077 Main Street  
Holden, MA 01520

**NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:**

Holden Trap Rock Company  
2077 Main Street  
Holden, MA 01520

**RECEIVING WATERS:** wetland to Austin Brook (Nashua River Basin MA-81)

**CLASSIFICATION:** A

**I. Proposed Action, Type of Facility, and Discharge Location.**

The above named applicant has requested that the U.S. Environmental Protection Agency (EPA) and the Massachusetts Department of Environmental Protection (MADEP) reissue its existing NPDES permit to discharge into the designated receiving waters. The facility manufactures commercial crushed stone products from on-site granite rock and asphaltic concrete using inert crushed stone and asphalt cement. The discharges from this facility are mine de-watering and non-contact cooling water (NCCW).

## **II. Description of Discharge.**

Recent plant effluent monitoring data (January 1999 through January 2002) were reviewed and used to develop this permit, and are summarized in Fact Sheet Table 1. This data were extracted from monthly Discharge Monitoring Reports (DMR) submitted to EPA by the Holden Trap Rock Company.

## **III. Limitations and Conditions.**

The effluent limitations of the draft permit, the monitoring requirements, and implementation schedule (if required) may be found in the draft NPDES permit.

## **IV. Facility Preamble.**

### **NPDES Permit History**

The Holden Trap Rock Company (HTR) has been discharging wastewater from its quarry located on Main Street, Holden, MA under a five year NPDES permit issued on September 5, 1995, which expired on September 5, 2000. The 1995 permit has been administratively continued as the permittee has satisfied the conditions listed in Title 40 of the Code of Federal Regulations (“CFR”) Section 122.6 and Title 314 of the Code of Massachusetts Regulation (“CMR”) Section 3.08. Whole Effluent Toxicity testing was removed from the permit in July 1997. The September 5, 1995 permit superseded the permit issued on July 22, 1974.

### **Watershed Initiative**

The facility is in the Nashua watershed basin. The MADEP began concentrating efforts to reissue NPDES permits within this watershed during the Calendar Year 2000. To preserve the watershed approach strategy, and its five year cycle, MADEP requested that this permit expire in Calendar Year 2005. This permit, after it becomes effective, will expire in 2005, consistent with the Massachusetts Watershed Initiative cycle.

### **Company Description**

Holden Trap Rock Company, Division of Massachusetts Broken Stone Company, operates a stone quarry and mining facility at this location which manufactures commercial crushed stone products and asphaltic concrete. Blasted rock is processed to produce commercial crushed stone products. The Company also produces asphalt concrete (HMA) paving materials at this facility using aggregates produced on site as primary components of the HMA products.

The discharges are to a wetland area, located near the entrance scale-house weigh station, and bounded by Route 122A. To help control silt, 1 ½ inch crushed stone is used on the shoulder(s) of the internal road(s). This crushed stone is replaced every few months.

The company has progressively reduced water withdrawal from and water discharges to the waterways of the Commonwealth. Consulting Engineers Webster Associates, Inc., is assisting the permittee in revisions to their Water Management Plan. The revisions in process equipment, quarry development, and operating procedures will enable additional reductions in water withdrawal and discharges to the waterways of the Commonwealth. The Company plans to submit a revised Water Management Plan in the near future. This plan will be considered “new information” pursuant to 40 CFR §122.62(a)(2) and may be cause to modify the permit.

### **Description of 001 – Mine De-watering**

Mine water, ground water, and storm water is collected in a 2800 ± square foot detention pond on the quarry floor. Water is pumped via pipe from the detention pond to outfall 001, located on the side of the internal site access road, and discharges to a wetland.

The mine is closed from mid-December to March 1<sup>st</sup> each year. Until the mid 1990's, the mine de-watering discharge volume varied seasonally. When the mine reopened in the spring, the mine was de-watered at the maximum capacity of the de-watering pump, which is 300 gallons per minute (gpm), until the level was reduced.

Holden Trap Rock Company has revised operating procedures to minimize the impact on wetlands and Austin Brook generated by mine de-watering. The Company has installed a 150 gpm submersible pump which operates through the year. Average water discharge is 125± gpm (or approximately 180,000 gpd). The 300 gpm pump is still maintained as part of HTR's operational contingency plan. This procedure eliminates the surge of mine water discharge to Austin Brook during the Spring thaw period and provides a relatively uniform flow most of the year.

### **Description of 002 – Non-Contact Cooling Water**

Water is used by some crushers for cooling. The water does not contact the materials. Water use has been reduced from approximately 50,000 to 32,500 gallons per day by replacing one of the crushers with a unit that does not use water cooling.

Non-contact crusher cooling water is discharged to a 20,000 gallon capacity tank. The tank discharges by gravity to an intermediate detention pond. Effluent is piped from the detention pond, under the internal access road, to outfall 002, to a wetland located near the scale house. Discharge occurs April - December, about 150 - 200 days depending on users demand for products. The 1995 permit limits were in effect March 1<sup>st</sup> to December 31<sup>st</sup> of each year, or while the Company was operational.

The Company is currently modifying the 1958 plant. HTR has developed plans to make their own sand product. They also will install a thickener to reduce fines. In the end there will be less process water discharged. Any planned changes to the facility must be reported in accordance with 40 CFR §122.41(l)(1), and may be new information which represents cause to modify the permit.

### **Storm water**

Storm water collects on benches or plateaus along the quarry floor and is discharged through Outfall 001. The remaining storm water runoff is contained on-site by a series of berms constructed around the facility. Old sediment ponds are now used to store storm water, which either infiltrates back into the ground or evaporates.

### **Other Water Uses**

Water is applied to the surfaces of stone processed to control potential particulate emissions. Water use is relative to climatological conditions. There is no process water discharge. Water use is estimated using factors for aggregate processing developed by MADEP and the aggregate industry.

Water is also used in water trucks and sprinklers for service roads and areas dust control (2,500 gpd). Water use is relative to climatological conditions.

## **V. Permit Basis and Explanation of Effluent Limitation Derivation.**

### **A. General Requirements**

The Clean Water Act (CWA) prohibits the discharge of pollutants to waters of the United States without a National Pollutant Discharge Elimination System (NPDES) permit unless such a discharge is otherwise authorized by the CWA. The NPDES permit is the mechanism used to implement technology and water quality-based effluent limitations and other requirements including monitoring and reporting. This draft NPDES permit was developed in accordance with various statutory and regulatory requirements established pursuant to the CWA and any applicable State regulations. The regulations governing the EPA NPDES permit program are generally found at 40 CFR Parts 122, 124, 125, and 136.

EPA is required to consider (a) technology-based requirements, (b) water quality-based requirements, and (c) all limitations and requirements in the current/existing permit, when developing permit limits. These requirements are described in the following paragraphs.

### **Technology-Based Requirements**

Technology-based requirements represent the minimum level of control that must be imposed under Sections 301(b) and 402 of the CWA (see 40 CFR §125 Subpart A). For existing sources, technology-based requirements according to best practicable control technology currently available (BPT) are applied for conventional, non-conventional, and toxic pollutants. Sections 301 (b)(2)(A) and (E) of the CWA require industrial dischargers to meet limitations based on Best Available Technology Economically Achievable (BAT) for toxic pollutants and Best Conventional Pollutant Control Technology (BCT) for conventional pollutants by July 1, 1984. On July 12, 1977 EPA promulgated BPT and BAT effluent limitation guidelines for the Mineral Mining and Processing Point Source Category, 40 CFR Part 436. Such guidelines list discharge limitations for pH.

### **Water Quality-Based Requirements**

Under Section 301(b)(1)(C) of the CWA and EPA regulations, NPDES permits must contain effluent limits more stringent than technology-based limits where more stringent limits are necessary to maintain or achieve state or federal water quality standards.

Water quality standards consist of three parts: (1) beneficial designated uses for a water-body or a segment of a water-body; (2) numeric and/or narrative water quality criteria sufficient to protect the assigned designated use(s); and (3) anti-degradation requirements to ensure that once a use is attained it will not be degraded. The Massachusetts Surface Water Quality Standards, found at 314 CMR 4.00, include these elements. The state will limit or prohibit discharges of pollutants to surface waters to assure that surface water quality standards of the receiving waters are protected and maintained or attained. These standards also include requirements for the regulation and control of toxic constituents and require that EPA criteria, established pursuant to Section 304(a) of the CWA, shall be used unless a site specific criteria is established.

Austin Brook, which is the receiving water for the facility's discharge, has been designated as a Class A water in the Massachusetts Surface Water Quality Standards. The permit must limit any pollutant or pollutant parameter (conventional, non-conventional, toxic, and whole effluent toxicity) that is or may be discharged at a level that causes or has the "reasonable potential" to cause or contribute to an excursion above any water quality standard (40 CFR §122.44(d)). An excursion occurs if the projected or actual in-stream concentration exceeds an applicable water quality criterion. In determining "reasonable potential", EPA considers: (1) existing controls on point and non-point sources of pollution; (2) pollutant concentration and variability in the effluent and receiving water as determined from the permit's re-issuance application, monthly discharge monitoring reports (DMRs), and State and Federal Water Quality Reports; (3) sensitivity of the indicator species used in toxicity testing; (4) known water quality impacts of processes on waste waters; and (5) where appropriate, dilution of the effluent in the receiving water.

## **State Certification**

Under Section 401 of the CWA, EPA is required to obtain certification from the state in which the discharge is located which determines that all water quality standards, in accordance with Section 301(b)(1)(C) of the CWA, will be satisfied. Regulations governing state certification are set forth in 40 CFR §124.53 and §124.55. EPA regulations pertaining to permit limits based upon water quality standards and state requirements are contained in 40 CFR §122.44(d).

## **B. Water Quality Standards and Designated Uses**

Austin Brook has been classified as Class A under the Massachusetts Surface Water Quality Standards. Title 314 Code of Massachusetts Regulations ("CMR") 4.05(3)(a) states that Class A waters have the following designated uses: *These waters are designated a source of public water supply. To the extent compatible with this use they shall be an excellent habitat for fish, other aquatic life and wildlife, and suitable for primary and secondary contact recreation. These waters shall have excellent aesthetic value. These waters are designed for protection as Outstanding Resource Waters (ORW's) under 314 CMR 4.03(3).*

Section 303(d) of the Federal Clean Water Act (CWA) requires states to identify those water-bodies that are not expected to meet surface water quality standards after the implementation of technology-based controls and, as such require the development of total maximum daily loads (TMDL). The 1998, 303(d) report states that the Austin Brook (Nashua River Basin MA-81), is attaining water quality standards.

### **Outfall 001 – Flow limit**

The discharge flow limit of 300 gpm Daily Maximum for mine de-watering was added in the 1995 permit. According to the permittees' July 2000 NPDES permit application, average discharge flow for mine de-watering is 125± gpm or 180,000 gpd. The flow limit for this outfall remains at 300 gpm, which is the maximum capacity of the de-watering pump(s). This limit is in effect year-round. Reporting the Average Monthly flow for mine de-watering has been added in this draft permit.

### **Outfall 001 – TSS**

The Total Suspended Solid (TSS) limitation of 20 mg/l monthly average was added to the 1995 permit to control the buildup of solids in the receiving water. The previous 1974 permit contained monthly TSS reporting. The 1995 permit limit has been carried forward in this draft permit. The sample frequency of once per week remains unchanged.

### **Outfall 001 – pH limit**

The 1974 permit stated that pH shall not less than 6.0 or greater than 8.5 standard units (su), monitored monthly. The pH limits in the 1995 permit (not less than 6.5 or greater than 8.3 standard units and not more than 0.5 units outside of the naturally occurring range) were based on State Certification requirements and water quality standards as required by Section 401(d) of the CWA and 40 CFR 124.53 and 124.56. The Company has requested that the pH limits be reduced, based on the fact that the natural pH of the upstream receiving water is occasionally less than 6.5 su. The Agency has decided to relax the pH limits in this draft since MADEP has determined that the relaxation will not cause a violation of the State Water Quality Standards and is consistent with BAT effluent limitation guidelines for the Mineral Mining and Processing Point Source Category, 40 CFR Part 436. In addition, this draft has added a delta pH limit of 0.5 su as a reporting requirement on the monthly DMR, with a test frequency of once per week.

### **Outfall 002 – Flow limit**

The 1995 permit added a flow limit of 50,000 gpd which reflected actual flows. This flow limit remains unchanged in this draft permit, despite the fact that actual flows have been reduced in recent years, due to the use of crushers which do not require water for cooling.

### **Outfall 002 – TSS**

The Total Suspended Solid (TSS) limitation of 20 mg/l monthly average was maintained in the 1995 permit to control the buildup of solids in the receiving water. Solids get picked up as the discharge flows through an intermediate retention pond prior to discharge. The previous 1974 permit contained both a monthly TSS limit of 20 mg/l and a daily maximum limit of 45 mg/l. The 1995 permit limit has been carried forward in this draft permit. The sample frequency of once per week remains unchanged.

### **Outfall 002 – pH limit**

The pH limits in the 1995 permit (not less than 6.5 or greater than 8.3 standard units and not more than 0.5 units outside the normally occurring range) were based on State Certification requirements and Massachusetts Surface Water Quality Standards, 1990 as required by Section 401(d) of the CWA and 40 CFR 124.53 and 124.55. The pH limits in this draft are based on state certification requirements and water quality standards, updated 12/27/96, for Class B waters.

### **Outfall 002 – Temperature Restrictions**

The 1995 permit added temperature restrictions of 83°F daily maximum, and shall not exceed a 5°F rise in rivers and streams designated as warm water fisheries based on state certification requirements and water quality standards for Class B waters. Since the last permitting action, Austin Brook has been classified as a Class A warm water fishery in the Massachusetts Surface

Water Quality Standards. The temperature restriction of 83°F daily maximum, remains unchanged, and the temperature shall not exceed a 1.5°F rise in rivers and streams designated as warm water fisheries based on state certification requirements and water quality standards for Class A waters. Down stream temperature is taken near Route 122A at a naturally and man-made dammed, retention area.

### **Outfall 002 - Whole Effluent Toxicity**

The 1995 permit added Acute Whole Effluent Toxicity (WET) limit of LC50 of 100% with a measurement frequency of twice per year, during the first and third calendar quarters, with a condition that after two satisfactory toxicity test results, the permittee may submit to EPA and MADEP a written request for a permit modification of its toxicity test requirements. The permittee submitted a permit modification request letter dated June 27, 1997. In a July 10, 1997 letter from MADEP to EPA, the MA DEP had reviewed the WET test data, and had no objection to granting the requested modification. Soon after, WET testing was discontinued. EPA, in conjunction with MADEP, has formally eliminated the acute WET test requirement in this permitting action.

### **STORM WATER POLLUTION PREVENTION PLAN (SWPPP)**

The SWPPP inspection requirements listed in the draft permit were adopted from strategies listed in EPA's NPDES Storm Water Multi-Sector General Permit for Industrial Activities, *Sector J -- Mineral Mining and Dressing*, Part 6.J.6.1 entitled *Inspections*, and *Sector D – Asphalt Paving Manufacturers*, Part 6.D.4.1. entitled *Inspections*.

### **Outfall 002 - Seasonal Discharge**

The 1995 permit restricted the NCCW discharge to the period from March 1 to December 31 of each year or while the company is operational and is discharging NCCW. This draft permit allows for year round discharge, in the event the normal operating season is extended based on demand. The use of NCCW additives is still prohibited in this draft permit.

### **No Discharge**

In the future, if no discharge occurs during a monitoring period, for either outfall 001 or 002, then the permittee shall enter the appropriate No Discharge Code for each parameter on the DMR.

- C* indicating “No Discharge”
- F* indicating “Insufficient Flow for sampling”
- J* indicating “Recycled, water-closed system”
- 2* indicating “Operations shutdown”

### **Unauthorized Discharges**

The permittee is authorized to discharge only in accordance with the terms and conditions of this permit and only from outfalls 001 and 002. Discharges of wastewater from any other point source are not authorized under this permit, but shall be reported in accordance with Part II.B.4 (Bypass) of this permit.

### **Monitoring Frequency**

The effluent monitoring requirements have been established to yield data representative of the discharge by the authority under Section 308(a) of the CWA in accordance with 40 CFR §122.41(j), §122.44, and §122.48.

### **VI. Essential Fish Habitat.**

Under the 1996 Amendments (PL 104-267) to the Magnuson-Stevens Fishery Conservation and Management Act (16 U.S.C. § 1801 et seq.(1998)), EPA is required to consult with the National Marine Fisheries Service (NMFS) if EPA's action or proposed actions that it funds, permits, or undertakes, "may adversely impact any essential fish habitat." 16 U.S.C. § 1855(b). The Amendments broadly define "essential fish habitat" (EFH) as: "waters and substrate necessary to fish for spawning, breeding, feeding, or growth to maturity. 16 U.S.C. § 1802(10). Adversely impact means any impact which reduces the quality and/or quantity of EFH. 50 C.F.R. § 600.910(a). Adverse effects may include direct (e.g., contamination or physical disruption), indirect (e.g., loss of prey, reduction in species' fecundity), site-specific or habitat-wide impacts, including individual, cumulative, or synergistic consequences of actions. Id.

Essential fish habitat is only designated for fish species for which federal Fisheries Management Plans exist. 16 U.S.C. § 1855(b)(1)(A). EFH designations for New England were approved by the U.S. Department of Commerce on March 3, 1999.

Based on the permit requirements and limitations identified in the draft permit and fact sheet that are designed to be protective of aquatic species, EPA has concluded that formal consultation with NMFS is not required because this authorized discharge is not likely to adversely affect federally managed species, their forage, or their habitat. If adverse effects do occur as a result of this permit action, or if new information becomes available that changes the basis for this conclusion, then NMFS will be notified and consultation promptly initiated.

## **VII. Anti-backsliding.**

Anti-backsliding as defined at 40 CFR §122.44(l)(1) requires reissued permits to contain limitations as stringent or more stringent than those of the previous permit unless the circumstances allow application of one of the defined exceptions to this regulation.

## **VIII. Antidegradation.**

The Massachusetts Antidegradation Policy is found at Title 314 CMR 4.04. All existing uses of Austin Brook must be protected. The EPA anticipates that the MADEP shall make a determination that there shall be no significant adverse impacts to the receiving waters and no loss of existing uses as a result of the re-issuance of this permit. The public is invited to participate in the anti-degradation finding through the permit public notice process.

The remaining general and special conditions of the permit are based on the NPDES regulations, 40 CFR Parts 122 through 125, and consist primarily of management requirements common to all permits.

## **IX. State Certification Requirements.**

EPA may not issue a permit in the Commonwealth of Massachusetts unless the Massachusetts Department of Environmental Protection (MADEP) certifies that the effluent limitations contained in the permit are stringent enough to assure that the discharge will not cause the receiving water to violate State Water Quality Standards. The staff of the MA DEP has reviewed the draft permit. EPA has requested permit certification by the state pursuant to 40 CFR 124.53 and expects that the draft permit will be certified.

## **X. Comment Period, Hearing Requests, and Procedures for Final Decisions.**

All persons, including applicants, who believe any condition of the draft permit is inappropriate must raise all issues and submit all available arguments and all supporting material for their arguments in full by the close of the public comment period, to **Jonathan Britt, the U.S. EPA, One Congress Street, Suite 1100, Mail Code CPE, Boston, Massachusetts 02114-2023 and Paul Hogan, Department of Environmental Protection, Division of Watershed Management, 627 Main Street, 2<sup>nd</sup> Floor, Worcester, MA 01608**. Any person, prior to such date, may submit a request in writing for a public hearing to consider the draft permit to EPA and the State Agency. Such requests shall state the nature of the issues proposed to be raised in the hearing. A public hearing may be held after at least thirty days public notice whenever the Regional Administrator finds that response to this notice indicates significant public interest. In reaching a final decision on the draft permit, the Regional Administrator will respond to all significant comments and make these responses available to the public at EPA's Boston office.

Following the close of the comment period, and after a public hearing, if such hearing is held, the Regional Administrator of EPA and the Director of DEP/DWM will issue a final permit decision and forward a copy of the final decision to the applicant and each person who has submitted written comments or requested notice.

**XI. EPA Contact.**

Additional information concerning the draft permit may be obtained between the hours of 9:00 a.m. and 5:00 p.m., Monday through Friday, excluding holidays from:

Jonathan Britt  
US Environmental Protection Agency  
One Congress Street  
Suite 1100 (CPE)  
Boston, Massachusetts 02114-2023  
Telephone: 617-918-1563  
fax: 617-918-1505  
e-mail: [britt.jonathan@epa.gov](mailto:britt.jonathan@epa.gov)

June 28, 2002  
Date

Linda M. Murphy, Director\*  
Office of Ecosystem Protection  
U.S. Environmental Protection Agency

\* Comments should be addressed to both Jonathan Britt and Paul Hogan, not Linda M. Murphy.

Attachment: DMR Summary attached

**FACT SHEET TABLE 1**  
**HOLDEN TRAP ROCK (MA0020320)**  
**DISCHARGE MONITORING REPORT DATA JANUARY 1, 1999 THROUGH JANUARY 31, 2001**

06/11/02

DMR DATA & VIOLATIONS REPORT

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MA0020320 HOLDEN TRAP ROCK COMPANY      HOLDEN      AUSTIN BROOK VIA STORM SEWER

001A MINE DEWATERING & STORM WATER 10/01/95 09/30/00

PH	Limits	6.5	8.3 SU					
E00 01/31/99	6.65	6.85	0	0	0	0	0	0
E00 02/28/99 C			0	0	0	0	0	0
E90 03/31/99	6.4	6.6	0	0	2	0	0	0
E00 04/30/99	7.2	7.4	0	0	0	0	0	0
E00 05/31/99	6.8	7.4	0	0	0	0	0	0
E00 06/30/99	7.4	7.6	0	0	0	0	0	0
E00 07/31/99	7.3	7.8	0	0	0	0	0	0
E00 08/31/99	7.2	7.5	0	0	0	0	0	0
E90 09/30/99	5.9	7.3	0	0	9	0	0	0
E00 10/31/99	7.0	7.4	0	0	0	0	0	0
E00 11/30/99	7.0	7.3	0	0	0	0	0	0
E00 12/31/99	6.7	6.7	0	0	0	0	0	0
E00 01/31/00	6.6	6.8	0	0	0	0	0	0
E90 02/29/00	5.6	7.1	0	0	14	0	0	0
E90 03/31/00	6.4	7.0	0	0	2	0	0	0
E00 04/30/00	6.6	7.2	0	0	0	0	0	0
E00 05/31/00	6.6	7.0	0	0	0	0	0	0
E90 06/30/00	6.2	6.8	0	0	5	0	0	0
E00 07/31/00	6.6	7.3	0	0	0	0	0	0
E00 08/31/00	6.6	7.2	0	0	0	0	0	0
E00 09/30/00	6.7	7.2	0	0	0	0	0	0
E00 10/31/00	6.9	7.4	0	0	0	0	0	0
E00 11/30/00	7.1	7.4	0	0	0	0	0	0
E00 01/31/01	6.7	7.4	0	0	0	0	0	0
E00 02/28/01	6.8	7.2	0	0	0	0	0	0
E90 03/31/01	6.3	7.1	0	0	3	0	0	0
E90 04/30/01	6.2	6.6	0	0	5	0	0	0
E00 05/31/01	6.6	6.8	0	0	0	0	0	0
E00 06/30/01	6.8	7.0	0	0	0	0	0	0
E00 09/30/01	7.1	7.3	0	0	0	0	0	0
E00 10/31/01	7.2	7.5	0	0	0	0	0	0
E00 12/31/01	6.9	7.7	0	0	0	0	0	0
E00 11/30/01	7.2	7.4	0	0	0	0	0	0
E00 02/28/02	7.1	7.3	0	0	0	0	0	0
E00 01/31/02	7.1	7.4	0	0	0	0	0	0

06/11/02

DMR DATA & VIOLATIONS REPORT

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SOLIDS, TOTAL	SUSPENDED	Limit	20	MG/L				
E00 01/31/99		2.1	0	0	0	0	0	0
E00 02/28/99 C			0	0	0	0	0	0
E00 03/31/99		0	0	0	0	0	0	0
E00 04/30/99		0	0	0	0	0	0	0
E00 05/31/99		6	0	0	0	0	0	0
E00 06/30/99		0	0	0	0	0	0	0
E00 07/31/99		9.4	0	0	0	0	0	0
E00 08/31/99		0	0	0	0	0	0	0
E00 09/30/99		4.5	0	0	0	0	0	0
E00 10/31/99		4	0	0	0	0	0	0
E00 11/30/99		10.2	0	0	0	0	0	0
E00 12/31/99		10	0	0	0	0	0	0
E00 01/31/00		12.5	0	0	0	0	0	0
E00 02/29/00		9.75	0	0	0	0	0	0
E00 03/31/00		2.8	0	0	0	0	0	0
E00 04/30/00		12	0	0	0	0	0	0
E00 05/31/00		2.0	0	0	0	0	0	0
E00 06/30/00		2	0	0	0	0	0	0
E00 07/31/00		2	0	0	0	0	0	0
E00 08/31/00		0	0	0	0	0	0	0
E00 09/30/00		3	0	0	0	0	0	0
E00 10/31/00		1.3	0	0	0	0	0	0
E00 11/30/00		6	0	0	0	0	0	0
E00 01/31/01		3	0	0	0	0	0	0
E00 02/28/01		5.7	0	0	0	0	0	0
E00 03/31/01		3	0	0	0	0	0	0
E00 04/30/01		3	0	0	0	0	0	0
E00 05/31/01		2	0	0	0	0	0	0
E00 06/30/01		4	0	0	0	0	0	0
E00 09/30/01		9.3	0	0	0	0	0	0
E00 10/31/01		4	0	0	0	0	0	0
E00 12/31/01		7.3	0	0	0	0	0	0
E00 11/30/01		6.4	0	0	0	0	0	0
E00 02/28/02		9	0	0	0	0	0	0
E00 01/31/02		4	0	0	0	0	0	0

FLOW, IN CONDUIT OR THRU TREATMENT PLANT

	Limit	300	GPD					
E00 01/31/99	300	0	0	0	0	0	0	0
E00 02/28/99 C		0	0	0	0	0	0	0
E00 03/31/99	300	0	0	0	0	0	0	0
E00 04/30/99	300	0	0	0	0	0	0	0
E00 05/31/99	150	0	0	0	0	0	0	0
E00 06/30/99	150	0	0	0	0	0	0	0
E00 07/31/99	150	0	0	0	0	0	0	0
E00 08/31/99	300	0	0	0	0	0	0	0
E00 09/30/99	150	0	0	0	0	0	0	0
E00 10/31/99	150	0	0	0	0	0	0	0
E00 11/30/99	150	0	0	0	0	0	0	0
E00 12/31/99	150	0	0	0	0	0	0	0

06/11/02

DMR DATA & VIOLATIONS REPORT

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FLOW	DATE	VALUE	0	0	0	0	0
E00	01/31/00	150	0	0	0	0	0
E00	02/29/00	150	0	0	0	0	0
E00	03/31/00	300	0	0	0	0	0
E00	04/30/00	300	0	0	0	0	0
E00	05/31/00	150	0	0	0	0	0
E00	06/30/00	150	0	0	0	0	0
E00	07/31/00	150	0	0	0	0	0
E00	08/31/00	150	0	0	0	0	0
E00	09/30/00	150	0	0	0	0	0
E00	10/31/00	150	0	0	0	0	0
E00	11/30/00	150	0	0	0	0	0
E00	01/31/01	150	0	0	0	0	0
E00	02/28/01	150	0	0	0	0	0
E00	03/31/01	150	0	0	0	0	0
E00	04/30/01	150	0	0	0	0	0
E00	05/31/01	150	0	0	0	0	0
E00	06/30/01	150	0	0	0	0	0
E00	09/30/01	150	0	0	0	0	0
E00	10/31/01	150	0	0	0	0	0
E00	12/31/01	150	0	0	0	0	0
E00	11/30/01	150	0	0	0	0	0
E00	02/28/02	150	0	0	0	0	0
E00	01/31/02	150	0	0	0	0	0

002A NON-CONTACT COOLING/STORMWATER 10/01/95 09/30/00

TEMPERATURE, WATER DEG. FAHRENHEIT	Limit	83.0	DEG.F	0	0	0	0	0
E00 01/31/99 C				0	0	0	0	0
E00 02/28/99 C				0	0	0	0	0
E00 03/31/99 C				0	0	0	0	0
E00 04/30/99	52			0	0	0	0	0
E00 05/31/99	53.0			0	0	0	0	0
E00 06/30/99	68			0	0	0	0	0
E00 07/31/99	75			0	0	0	0	0
E00 08/31/99	70			0	0	0	0	0
E00 09/30/99	70			0	0	0	0	0
E00 10/31/99	51			0	0	0	0	0
E00 11/30/99	51			0	0	0	0	0
E00 12/31/99	45			0	0	0	0	0
E00 01/31/00 C				0	0	0	0	0
E00 02/29/00 C				0	0	0	0	0
E00 03/31/00 C				0	0	0	0	0
E00 04/30/00	37			0	0	0	0	0
E00 05/31/00	57.0			0	0	0	0	0
E00 06/30/00	65			0	0	0	0	0
E00 07/31/00	65			0	0	0	0	0
E00 08/31/00	71			0	0	0	0	0
E00 09/30/00	68			0	0	0	0	0
E00 10/31/00	62			0	0	0	0	0
E00 11/30/00	52			0	0	0	0	0

E00 01/31/01 C

0 0 0 0 0

DMR DATA & VIOLATIONS REPORT

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Temperature	Date	Value	0	0	0	0	0
E00	02/28/01 C		0	0	0	0	0
E00	03/31/01 C		0	0	0	0	0
E00	04/30/01 C		0	0	0	0	0
E00	05/31/01	68	0	0	0	0	0
E00	06/30/01	72	0	0	0	0	0
E00	09/30/01	66	0	0	0	0	0
E00	12/31/01 C		0	0	0	0	0
E00	10/31/01	58	0	0	0	0	0
E00	11/30/01	48	0	0	0	0	0
E00	02/28/02 C		0	0	0	0	0
E00	01/31/02 C		0	0	0	0	0

PH	Limits	6.5	8.3	SU	0	0	0	0	0
E00	01/31/99 C				0	0	0	0	0
E00	02/28/99 C				0	0	0	0	0
E00	03/31/99 C				0	0	0	0	0
E00	04/30/99	7.3	7.4		0	0	0	0	0
E00	05/31/99	6.6	7.4		0	0	0	0	0
E00	06/30/99	7.3	7.6		0	0	0	0	0
E00	07/31/99	7.4	8.1		0	0	0	0	0
E00	08/31/99	7.5	7.6		0	0	0	0	0
E00	09/30/99	6.6	7.5		0	0	0	0	0
E00	10/31/99	6.9	7.2		0	0	0	0	0
E00	11/30/99	7.1	7.3		0	0	0	0	0
E00	12/31/99	6.8	6.8		0	0	0	0	0
E00	01/31/00 C				0	0	0	0	0
E00	02/29/00 C				0	0	0	0	0
E00	03/31/00 C				0	0	0	0	0
E90	04/30/00	6.3	6.3		0	0	3	0	0
E00	05/31/00	6.7	6.9		0	0	0	0	0
E90	06/30/00	6.0	6.8		0	0	8	0	0
E00	07/31/00	6.7	7.1		0	0	0	0	0
E00	08/31/00	6.7	7.8		0	0	0	0	0
E00	09/30/00	6.8	7.3		0	0	0	0	0
E00	10/31/00	7.3	7.4		0	0	0	0	0
E00	11/30/00	7.2	7.3		0	0	0	0	0
E00	01/31/01 C				0	0	0	0	0
E00	02/28/01 C				0	0	0	0	0
E00	03/31/01 C				0	0	0	0	0
E00	04/30/01 C				0	0	0	0	0
E00	05/31/01	6.7	7.1		0	0	0	0	0
E00	06/30/01	7.0	7.2		0	0	0	0	0
E00	09/30/01	7.0	7.2		0	0	0	0	0
E00	12/31/01 C				0	0	0	0	0
E00	10/31/01	7.0	7.2		0	0	0	0	0
E00	11/30/01	7.2	7.4		0	0	0	0	0
E00	02/28/02 C				0	0	0	0	0
E00	01/31/02 C				0	0	0	0	0

06/11/02

DMR DATA & VIOLATIONS REPORT

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SOLIDS, TOTAL	SUSPENDED	Limit	20	MG/L					
E00 01/31/99 C					0	0	0	0	0
E00 02/28/99 C					0	0	0	0	0
E00 03/31/99 C					0	0	0	0	0
E00 04/30/99		0			0	0	0	0	0
E00 05/31/99		0			0	0	0	0	0
E00 06/30/99		3			0	0	0	0	0
E00 07/31/99		0			0	0	0	0	0
E00 08/31/99		0			0	0	0	0	0
E00 09/30/99		4.75			0	0	0	0	0
E00 10/31/99		5			0	0	0	0	0
E00 11/30/99		9.9			0	0	0	0	0
E00 12/31/99		11.5			0	0	0	0	0
E00 01/31/00 C					0	0	0	0	0
E00 02/29/00 C					0	0	0	0	0
E00 03/31/00 C					0	0	0	0	0
E00 04/30/00		16			0	0	0	0	0
E00 05/31/00		8.5			0	0	0	0	0
E00 06/30/00		3			0	0	0	0	0
E00 07/31/00		0			0	0	0	0	0
E00 08/31/00		3.2			0	0	0	0	0
E00 09/30/00		0			0	0	0	0	0
E00 10/31/00		1.3			0	0	0	0	0
E00 11/30/00		4			0	0	0	0	0
E00 01/31/01 C					0	0	0	0	0
E00 02/28/01 C					0	0	0	0	0
E00 03/31/01 C					0	0	0	0	0
E00 04/30/01 C					0	0	0	0	0
E00 05/31/01		5			0	0	0	0	0
E00 06/30/01		10			0	0	0	0	0
E00 09/30/01		5			0	0	0	0	0
E00 12/31/01 C					0	0	0	0	0
E00 10/31/01		10			0	0	0	0	0
E00 11/30/01		3			0	0	0	0	0
E00 02/28/02 C					0	0	0	0	0
E00 01/31/02 C					0	0	0	0	0

06/11/02

DMR DATA & VIOLATIONS REPORT

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TEMP. DIFF. BETWEEN UP/DOWN STREAM DEG.F	Limit	5	DEG.F					
E00 01/31/99 C			0	0	0	0	0	0
E00 02/28/99 C			0	0	0	0	0	0
E00 03/31/99 C			0	0	0	0	0	0
E00 04/30/99	1		0	0	0	0	0	0
E00 05/31/99	1		0	0	0	0	0	0
E00 06/30/99	3		0	0	0	0	0	0
E00 07/31/99	3		0	0	0	0	0	0
E00 09/30/99	0		0	0	0	0	0	0
E00 10/31/99	1		0	0	0	0	0	0
E00 11/30/99	1		0	0	0	0	0	0
E00 12/31/99	1		0	0	0	0	0	0
E00 01/31/00 C			0	0	0	0	0	0
E00 02/29/00 C			0	0	0	0	0	0
E00 03/31/00 C			0	0	0	0	0	0
E00 04/30/00	1		0	0	0	0	0	0
E00 05/31/00	2		0	0	0	0	0	0
E00 06/30/00	1		0	0	0	0	0	0
E00 07/31/00	5		0	0	0	0	0	0
E00 08/31/00	2		0	0	0	0	0	0
E00 09/30/00	2		0	0	0	0	0	0
E00 10/31/00	4		0	0	0	0	0	0
E00 11/30/00	2		0	0	0	0	0	0
E00 01/31/01 C			0	0	0	0	0	0
E00 02/28/01 C			0	0	0	0	0	0
E00 03/31/01 C			0	0	0	0	0	0
E00 04/30/01 C			0	0	0	0	0	0
E00 05/31/01	3		0	0	0	0	0	0
E00 06/30/01	5		0	0	0	0	0	0
E00 09/30/01	2		0	0	0	0	0	0
E00 12/31/01 C			0	0	0	0	0	0
E00 10/31/01	0		0	0	0	0	0	0
E00 11/30/01	3		0	0	0	0	0	0
E00 02/28/02 C			0	0	0	0	0	0
E00 01/31/02 C			0	0	0	0	0	0

06/11/02

DMR DATA & VIOLATIONS REPORT

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FLOW, IN CONDUIT OR THRU TREATMENT PLANT

Limit 50,000 GPD

E00 01/31/99 C		0	0	0	0	0
E00 02/28/99 C		0	0	0	0	0
E00 03/31/99 C		0	0	0	0	0
E00 04/30/99	32500	0	0	0	0	0
E00 05/31/99	32500	0	0	0	0	0
E00 06/30/99	32500	0	0	0	0	0
E00 07/31/99	32500	0	0	0	0	0
E00 08/31/99	32500	0	0	0	0	0
E00 09/30/99	32500	0	0	0	0	0
E00 10/31/99	32500	0	0	0	0	0
E00 11/30/99	32500	0	0	0	0	0
E00 12/31/99	32500	0	0	0	0	0
E00 01/31/00 C		0	0	0	0	0
E00 02/29/00 C		0	0	0	0	0
E00 03/31/00 C		0	0	0	0	0
E00 04/30/00	32500	0	0	0	0	0
E00 05/31/00	32500	0	0	0	0	0
E00 06/30/00	32500	0	0	0	0	0
E00 07/31/00	32500	0	0	0	0	0
E00 08/31/00	32500	0	0	0	0	0
E00 09/30/00	32500	0	0	0	0	0
E00 10/31/00	32500	0	0	0	0	0
E00 11/30/00	32500	0	0	0	0	0
E00 01/31/01 C		0	0	0	0	0
E00 02/28/01 C		0	0	0	0	0
E00 03/31/01 C		0	0	0	0	0
E00 04/30/01 C		0	0	0	0	0
E00 05/31/01	32500	0	0	0	0	0
E00 06/30/01	32500	0	0	0	0	0
E00 09/30/01	32500	0	0	0	0	0
E00 12/31/01 C		0	0	0	0	0
E00 10/31/01	32500	0	0	0	0	0
E00 11/30/01	32500	0	0	0	0	0
E00 02/28/02 C		0	0	0	0	0
E00 01/31/02 C		0	0	0	0	0

002T OUTFALL 2 TOXICITY RESULTS	10/01/95 09/30/00					
LC50 STAT 48HR ACU CERIODAPHNIA		100 %	0	0	0	0
LC50 STAT 48HR ACU PIMEPHALES		100 %	0	0	0	0

SUB-TOTAL QUICK LOOK PRINT LINES: 321