

**CHEM CORE SITE**  
**SITE # 9-15-176**  
**BUFFALO, NEW YORK**  
**MONTHLY REPORT**

**Monthly Report # 1: February 21, 2007 to March 23, 2007**

**System Operation:**

The treatment system was operational for approximately 575 hours out of approximately 720 total hours, for a system run time of 80%. The run time met the requirement of 80% minimum run time for the first month specified in the Contract Documents.

**Water Treatment and Discharge:**

A total of 116,797 gallons of treated water was discharged to the Buffalo Sewer Authority (BSA) during this period. The average discharge flow rate was 3,893 gallons per day (gpd), or 2.7 gallons per minute (gpm).

The pumping rate during operation for the extraction wells calculated by dividing the total flow (116,797 gallons) by the hours of operation (575 hours) was 203 gallons per hour (gph). This pumping rate exceeds the rate of 120 gph specified in the Contract Documents. Approximately 43% of the flow was attributable to the first extraction well (GEW-1), and approximately 57% of the flow was attributable to the second extraction well (GEW-2).

Water samples were collected on March 7, 13, 15, 20, and 22 during the reporting period. Summarized analytical results for these samples are included in Tables 1 (Extraction Well GEW-1), 2 (Extraction Well GEW-2), 3 (Air Stripper Influent), 4 (Discharge), 5 (Monitoring Well MW-20), 6 (Monitoring Well MW-21), and 7 (Monitoring Well MW-22). All discharge samples were in compliance with BSA permit requirements (Attachment A).

**Air Treatment and Discharge:**

The nominal air discharge rate for the air stripper is 300 cubic feet per minute (cfm). The discharge rate was measured on seventeen occasions during the reporting period with a portable anemometer. The average discharge rate based on the measurements was 303 cfm. The vapor

content of the air stream was measured with a PID on nine occasions during the reporting period. The average PID reading was 72 ppm VOCs.

Air samples were collected on March 10,15,21, and 22 during the reporting period. Summarized analytical results for these samples are included in Tables 8A(Catalytic Oxidizer Influent) and 9A(Catalytic Oxidizer Effluent). There was nearly 100% destruction of chlorinated hydrocarbons in the discharge stream by the catalytic oxidizer based on these samples. The catalytic oxidizer achieved removal efficiencies for compounds of concern specified in the Contract Documents.

**Unscheduled Maintenance and Alarms:**

The motor for the catalytic oxidizer blower failed on February 23. The system was down for five days. The motor was replaced on February 28.

Alarms associated with the catalytic oxidizer shut the system down five times during the reporting period. The system was restarted within 24 hours on these occasions.

Maple Leaf Environmental reprogrammed the display panel so that flow measurements could be read on the panel.

**TABLE 1  
EXTRACTION WELL GEW-1**

| PARAMETER              | Conc(ppb)    | Conc(ppb)    | Conc(ppb)    | Conc(ppb)    | Conc(ppb)    | Conc(ppb)    | Conc(ppb)    |
|------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
|                        | GEW-1        | GEW-1        | GEW-1        | GEW-1        | GEW-1        | GEW-1        | GEW-1        |
|                        | 3/7/2007     | 3/13/2007    | 3/15/2007    | 3/20/2007    | 3/22/2007    | 4/4/2007     | 5/2/2007     |
| 1,1,1 Trichloroethane  | 2200         | 1800         | 2200         | ND           | ND           | 1500         | 1200         |
| 1,1-Dichloroethane     | 1100         | 750          | 830          | 670          | 600          | 590          | 520          |
| cis-1,2-Dichloroethene | 8200         | 5700         | 6000         | 3900         | 4400         | 4500         | 3400         |
| Dibromochloromethane   | ND           | ND           | ND           | ND           | ND           | ND           | 1100         |
| Tetrachloroethene      | 1800         | 2200         | 3200         | 3000         | 3700         | 2800         | 2100         |
| Trichloroethene        | 3100         | 3300         | 4000         | 2700         | 3400         | 2900         | 2100         |
| Vinyl Chloride         | 2900         | ND           | 1900         | 1300         | 1700         | 1200         | 1200         |
| Methylene Chloride     | ND           | ND           | ND           | ND           | ND           | ND           | ND           |
| Acetone                | ND           | ND           | ND           | ND           | ND           | ND           | ND           |
| <b>TOTAL</b>           | <b>19300</b> | <b>13750</b> | <b>18130</b> | <b>11570</b> | <b>13800</b> | <b>13490</b> | <b>11620</b> |

| PARAMETER              | Conc(ppb)   | Conc(ppb)   |
|------------------------|-------------|-------------|
|                        | GEW-1       | GEW-1       |
|                        | 6/6/2007    | 7/6/2007    |
| 1,1,1 Trichloroethane  | 590         | 850         |
| 1,1-Dichloroethane     | 340         | 420         |
| cis-1,2-Dichloroethene | 2800        | 4000        |
| Dibromochloromethane   | ND          | ND          |
| Tetrachloroethene      | 990         | 880         |
| Trichloroethene        | 1700        | 1600        |
| Vinyl Chloride         | 460         | 1000        |
| Methylene Chloride     | ND          | 210         |
| Acetone                | ND          | ND          |
| <b>TOTAL</b>           | <b>6880</b> | <b>8960</b> |

ND=Not Detected

**TABLE 2  
EXTRACTION WELL GEW-2**

| PARAMETER              | Conc(ppb) | Conc(ppb) | Conc(ppb) | Conc(ppb) | Conc(ppb) | Conc(ppb) | Conc(ppb) |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
|                        | GEW-2     | GEW-2     | GEW-2     | GEW-2     | GEW-2     | GEW-2     | GEW-2     |
|                        | 3/7/2007  | 3/13/2007 | 3/15/2007 | 3/20/2007 | 3/22/2007 | 4/4/2007  | 5/2/2007  |
| 1,1,1 Trichloroethane  | 1600      | 1900      | 2600      | ND        | ND        | 1900      | 1200      |
| 1,1-Dichloroethane     | 920       | 1100      | 1200      | 710       | 720       | 1100      | 1300      |
| 1,1-Dichloroethene     | ND        | ND        | ND        | ND        | ND        | 200       | ND        |
| Chloroform             | ND        | ND        | ND        | ND        | ND        | ND        | 320       |
| cis-1,2-Dichloroethene | 8500      | 9600      | 11000     | 6600      | 6500      | 9900      | 8100      |
| Methylene Chloride     | ND        | ND        | ND        | ND        | ND        | 310       | 560       |
| Tetrachloroethene      | ND        | ND        | 710       | 450       | 390       | 420       | ND        |
| Toluene                | ND        | ND        | 350       | ND        | ND        | 200       | ND        |
| Trichloroethene        | 360       | 580       | 1200      | 480       | 390       | 680       | ND        |
| Vinyl Chloride         | ND        | ND        | 2700      | 1900      | 2100      | 2500      | 2000      |

|              |       |       |       |       |       |       |       |
|--------------|-------|-------|-------|-------|-------|-------|-------|
| <b>TOTAL</b> | 11380 | 13180 | 19760 | 10140 | 10100 | 17210 | 13480 |
|--------------|-------|-------|-------|-------|-------|-------|-------|

| PARAMETER              | Conc(ppb) | Conc(ppb) |
|------------------------|-----------|-----------|
|                        | GEW-2     | GEW-2     |
|                        | 6/6/2007  | 7/6/2007  |
| 1,1,1 Trichloroethane  | ND        | 790       |
| 1,1-Dichloroethane     | 1100      | 780       |
| 1,1-Dichloroethene     | ND        | ND        |
| Chloroform             | ND        | ND        |
| cis-1,2-Dichloroethene | 5500      | 5700      |
| Methylene Chloride     | 300       | 570       |
| Tetrachloroethene      | ND        | 370       |
| Toluene                | ND        | ND        |
| Trichloroethene        | ND        | 350       |
| Vinyl Chloride         | 940       | 1600      |

|              |      |       |
|--------------|------|-------|
| <b>TOTAL</b> | 7840 | 10160 |
|--------------|------|-------|

ND=Not Detected

**TABLE 3  
AIR STRIPPER INFLUENT**

| PARAMETER              | Conc(ppb)               | Conc(ppb)                | Conc(ppb)                | Conc(ppb)                | Conc(ppb)                | Conc(ppb)               | Conc(ppb)               |
|------------------------|-------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------|-------------------------|
|                        | AS influent<br>3/7/2007 | AS influent<br>3/13/2007 | AS influent<br>3/15/2007 | AS influent<br>3/20/2007 | AS influent<br>3/22/2007 | AS influent<br>4/4/2007 | AS influent<br>5/2/2007 |
| 1,1,1 Trichloroethane  | 1700                    | 1700                     | 2100                     | ND                       | ND                       | 1700                    | 1400                    |
| 1,1-Dichloroethane     | 1000                    | 900                      | 1000                     | 670                      | 570                      | 980                     | 1100                    |
| cis-1,2-Dichloroethene | 8200                    | 7700                     | 8800                     | 5200                     | 4400                     | 8400                    | 7000                    |
| Methylene Chloride     | ND                      | ND                       | ND                       | ND                       | ND                       | 200                     | 300                     |
| Tetrachloroethene      | 880                     | 910                      | 1600                     | 1400                     | 1100                     | 1400                    | 1100                    |
| Toluene                | ND                      | ND                       | ND                       | ND                       | ND                       | 200                     | ND                      |
| Trichloroethene        | 1600                    | 1600                     | 2400                     | 1700                     | 1200                     | 1600                    | 1300                    |
| Vinyl Chloride         | ND                      | ND                       | 1800                     | 1600                     | 1300                     | 1800                    | 1600                    |
| <b>TOTAL</b>           | <b>13380</b>            | <b>12810</b>             | <b>17700</b>             | <b>10570</b>             | <b>8570</b>              | <b>16280</b>            | <b>13800</b>            |

| PARAMETER              | Conc(ppb)               | Conc(ppb)               |
|------------------------|-------------------------|-------------------------|
|                        | AS influent<br>6/6/2007 | AS influent<br>7/6/2007 |
| 1,1,1 Trichloroethane  | 870                     | 910                     |
| 1,1-Dichloroethane     | 730                     | 860                     |
| cis-1,2-Dichloroethene | 5300                    | 7100                    |
| Methylene Chloride     | 170                     | 310                     |
| Tetrachloroethene      | 860                     | ND                      |
| Toluene                | ND                      | ND                      |
| Trichloroethene        | 1200                    | 1000                    |
| Vinyl Chloride         | 1100                    | 1600                    |
| <b>TOTAL</b>           | <b>10230</b>            | <b>11780</b>            |

ND=Not Detected

**TABLE 4  
DISCHARGE**

| <b>PARAMETER</b>       | Conc(ppb)<br>Discharge<br>3/7/2007 | Conc(ppb)<br>Discharge<br>3/13/2007 | Conc(ppb)<br>Discharge<br>3/15/2007 | Conc(ppb)<br>Discharge<br>3/20/2007 | Conc(ppb)<br>Discharge<br>3/22/2007 | Conc(ppb)<br>Discharge<br>4/4/2007 | Conc(ppb)<br>Discharge<br>5/2/2007 |
|------------------------|------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|------------------------------------|
| Acetone                | 17                                 | 18                                  | ND                                  | 19                                  | 15                                  | 12                                 | ND                                 |
| 1,1-Dichloroethane     | ND                                 | ND                                  | 3.6                                 | ND                                  | ND                                  | ND                                 | ND                                 |
| cis-1,2-Dichloroethene | 3.3                                | ND                                  | 52                                  | ND                                  | ND                                  | ND                                 | ND                                 |
| Tetrachloroethene      | ND                                 | ND                                  | 3.1                                 | ND                                  | ND                                  | ND                                 | ND                                 |
| Trichloroethene        | ND                                 | ND                                  | 5.5                                 | ND                                  | ND                                  | ND                                 | ND                                 |
| Arsenic                | ND                                 | ND                                  | NA                                  | ND                                  | ND                                  | 5                                  | ND                                 |
| Barium                 | ND                                 | ND                                  | NA                                  | ND                                  | ND                                  | 200                                | ND                                 |
| Selenium               | ND                                 | ND                                  | NA                                  | 17                                  | ND                                  | ND                                 | ND                                 |
| Lead                   | ND                                 | ND                                  | NA                                  | ND                                  | ND                                  | 60                                 | ND                                 |
| Zinc                   | 37                                 | 17                                  | NA                                  | ND                                  | ND                                  | ND                                 | ND                                 |
| SVOCs                  | ND                                 | ND                                  | NA                                  | ND                                  | ND                                  | 5.4(BEHP)                          | ND                                 |
| pH(Standard Unit)      | 7.3                                | 8                                   | NA                                  | 8                                   | NA                                  | NA                                 | NA                                 |
| TSS(mg/l)              | ND                                 | 2                                   | NA                                  | 2                                   | NA                                  | NA                                 | NA                                 |
| O&G(mg/l)              | ND                                 | ND                                  | NA                                  | ND                                  | NA                                  | NA                                 | NA                                 |
| P(mg/l)                | 0.48                               | 0.385                               | NA                                  | 0.385                               | NA                                  | NA                                 | NA                                 |

| <b>PARAMETER</b>       | Conc(ppb)<br>Discharge<br>6/6/2007 | Conc(ppb)<br>Discharge<br>7/6/2007 |
|------------------------|------------------------------------|------------------------------------|
| Acetone                | ND                                 | ND                                 |
| 1,1-Dichloroethane     | ND                                 | ND                                 |
| cis-1,2-Dichloroethene | 480                                | ND                                 |
| Tetrachloroethene      | ND                                 | ND                                 |
| Trichloroethene        | ND                                 | ND                                 |
| Arsenic                | ND                                 | ND                                 |
| Barium                 | ND                                 | ND                                 |
| Selenium               | ND                                 | ND                                 |
| Lead                   | ND                                 | ND                                 |
| Zinc                   | ND                                 | ND                                 |
| SVOCs                  | 10.5                               | ND                                 |
| pH(Standard Unit)      | NA                                 | NA                                 |
| TSS(mg/l)              | NA                                 | NA                                 |
| O&G(mg/l)              | NA                                 | NA                                 |
| P(mg/l)                | NA                                 | NA                                 |

ND=Not Detected  
NA=Not Analyzed

**TABLE 5  
MONITORING WELL MW-20**

| PARAMETER              | Conc(ppb) | Conc(ppb) | Conc(ppb) | Conc(ppb) | Conc(ppb) | Conc(ppb) |
|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
|                        | MW-20     | MW-20     | MW-20     | MW-20     | MW-20     | MW-20     |
|                        | 3/13/2007 | 3/15/2007 | 3/20/2007 | 3/22/2007 | 4/4/2007  | 5/2/2007  |
| 1,1,1 Trichloroethane  | 17        | ND        | ND        | 180       | 50        | 300       |
| 1,1-Dichloroethane     | 29        | 24        | 40        | 500       | 80        | ND        |
| Acetone                | ND        | ND        | 33        | ND        | ND        | 3600      |
| Chloroethane           | ND        | ND        | ND        | ND        | 93        | ND        |
| Chloroform             | ND        | ND        | ND        | ND        | ND        | ND        |
| cis-1,2-Dichloroethene | 56        | 45        | 110       | 1100      | 290       | 2700      |
| Tetrachloroethene      | ND        | ND        | ND        | ND        | ND        | 2800      |
| Toluene                | ND        | ND        | 3.2       | ND        | 6         | ND        |
| Trichloroethene        | 9         | 6.4       | 5.5       | 80        | 9         | 2100      |
| Vinyl Chloride         | 49        | 47        | 73        | 630       | 170       | 330       |
| <b>TOTAL</b>           | 160       | 122.4     | 264.7     | 2490      | 698       | 11830     |

| PARAMETER              | Conc(ppb) | Conc(ppb) |
|------------------------|-----------|-----------|
|                        | MW-20     | MW-20     |
|                        | 6/6/2007  | 7/6/2007  |
| 1,1,1 Trichloroethane  | 40        | ND        |
| 1,1-Dichloroethane     | 67        | 170       |
| Acetone                | ND        | ND        |
| Chloroethane           | ND        | ND        |
| Chloroform             | ND        | ND        |
| cis-1,2-Dichloroethene | 190       | 840       |
| Tetrachloroethene      | 12        | ND        |
| Toluene                | ND        | ND        |
| Trichloroethene        | 27        | ND        |
| Vinyl Chloride         | 120       | 530       |
| <b>TOTAL</b>           | 456       | 1540      |

ND=Not Detected

**TABLE 6  
MONITORING WELL MW-21**

| PARAMETER              | Conc(ppb)    | Conc(ppb)   | Conc(ppb)    | Conc(ppb)    | Conc(ppb)    | Conc(ppb)    |
|------------------------|--------------|-------------|--------------|--------------|--------------|--------------|
|                        | MW-21        | MW-21       | MW-21        | MW-21        | MW-21        | MW-21        |
|                        | 3/13/2007    | 3/15/2007   | 3/20/2007    | 3/22/2007    | 4/4/2007     | 5/2/2007     |
| 1,1,1 Trichloroethane  | 3000         | ND          | ND           | Nd           | 1800         | 1200         |
| 1,1-Dichloroethane     | 810          | 130         | 740          | 510          | 580          | 430          |
| 1,1-Dichloroethene     | ND           | 79          | ND           | ND           | ND           | ND           |
| 1,2-Dichloroethane     | ND           | 31          | ND           | ND           | ND           | ND           |
| 1,2-Dichloropropane    | ND           | 44          | ND           | ND           | ND           | ND           |
| Acetone                | ND           | ND          | ND           | ND           | ND           | 11000        |
| Chloroethane           | ND           | ND          | ND           | ND           | 380          | ND           |
| cis-1,2-Dichloroethene | 4400         | 1800        | 5100         | 3800         | 4300         | 3200         |
| Tetrachloroethene      | 1400         | 1800        | 3900         | 2700         | 2000         | 1500         |
| Toluene                | 390          | ND          | ND           | ND           | ND           | ND           |
| Trichloroethene        | 5300         | 1100        | 4800         | 3300         | 2500         | 1800         |
| Vinyl Chloride         | 1600         | 380         | 1100         | 830          | 710          | 580          |
| Methylene Chloride     | ND           | ND          | ND           | ND           | ND           | ND           |
| <b>TOTAL</b>           | <b>16900</b> | <b>5364</b> | <b>15640</b> | <b>11140</b> | <b>12270</b> | <b>19710</b> |

| PARAMETER              | Conc(ppb)   | Conc(ppb)   |
|------------------------|-------------|-------------|
|                        | MW-21       | MW-21       |
|                        | 6/6/2007    | 7/6/2007    |
| 1,1,1 Trichloroethane  | 620         | 180         |
| 1,1-Dichloroethane     | 380         | 340         |
| 1,1-Dichloroethene     | ND          | ND          |
| 1,2-Dichloroethane     | ND          | ND          |
| 1,2-Dichloropropane    | ND          | ND          |
| Acetone                | ND          | ND          |
| Chloroethane           | ND          | ND          |
| cis-1,2-Dichloroethene | 2500        | 1300        |
| Tetrachloroethene      | ND          | ND          |
| Toluene                | ND          | ND          |
| Trichloroethene        | 1400        | ND          |
| Vinyl Chloride         | 590         | 920         |
| Methylene Chloride     | ND          | 160         |
| <b>TOTAL</b>           | <b>5490</b> | <b>2900</b> |

ND=Not Detected



**TABLE 7  
MONITORING WELL MW-22**

| PARAMETER              | Conc(ppb)   | Conc(ppb)    | Conc(ppb)   | Conc(ppb)    | Conc(ppb)   | Conc(ppb)    |
|------------------------|-------------|--------------|-------------|--------------|-------------|--------------|
|                        | MW-22       | MW-22        | MW-22       | MW-22        | MW-22       | MW-22        |
|                        | 3/13/2007   | 3/15/2007    | 3/20/2007   | 3/22/2007    | 4/4/2007    | 5/2/2007     |
| 1,1,1 Trichloroethane  | ND          | ND           | ND          | 25           | 460         | 22           |
| 1,1-Dichloroethane     | ND          | 1000         | ND          | 8.7          | 200         | 31           |
| 1,1-Dichloroethene     | ND          | ND           | ND          | 6.5          | ND          | 3.2          |
| cis-1,2-Dichloroethene | 1400        | 7300         | 2100        | 150          | 2300        | 110          |
| Tetrachloroethene      | 1500        | 3000         | 1600        | 70           | 2000        | 13           |
| Toluene                | ND          | ND           | ND          | ND           | ND          | ND           |
| Trichloroethene        | 1300        | 6800         | 1700        | 140          | 2100        | 35           |
| Vinyl Chloride         | 320         | 1500         | 450         | 20           | ND          | 46           |
| Carbon Disulfide       | ND          | ND           | ND          | ND           | ND          | 6            |
| <b>TOTAL</b>           | <b>4520</b> | <b>19600</b> | <b>5850</b> | <b>395.2</b> | <b>6600</b> | <b>244.2</b> |

| PARAMETER              | Conc(ppb)   | Conc(ppb)   |
|------------------------|-------------|-------------|
|                        | MW-22       | MW-22       |
|                        | 6/6/2007    | 7/6/2007    |
| 1,1,1 Trichloroethane  | 470         | 850         |
| 1,1-Dichloroethane     | 240         | 240         |
| 1,1-Dichloroethene     | ND          | 180         |
| cis-1,2-Dichloroethene | 2700        | 3300        |
| Tetrachloroethene      | 3100        | 3400        |
| Toluene                | ND          | ND          |
| Trichloroethene        | 1800        | 2100        |
| Vinyl Chloride         | ND          | ND          |
| Carbon Disulfide       | ND          | ND          |
| <b>TOTAL</b>           | <b>7840</b> | <b>9220</b> |

ND=Not Detected

**TABLE 8A  
CATALYTIC OXIDIZER INFLUENT**

| PARAMETER                 | Conc(microg/m3)        | Conc(microg/m3)        | Conc(microg/m3)        | Conc(microg/m3)        |
|---------------------------|------------------------|------------------------|------------------------|------------------------|
|                           | CatOx Inf<br>3/10/2007 | CatOx Inf<br>3/15/2007 | CatOx Inf<br>3/21/2007 | CatOx Inf<br>3/22/2007 |
| 1,1,1-Trichloroethane(1)  | 34                     | 9400                   | 14000                  | 3200                   |
| 1,1,2-Trichloroethane     | ND                     | 7.3                    | 6.3                    | ND                     |
| 1,1-Dichloroethane        | 9.2                    | 2400                   | 7500                   | 1200                   |
| 1,1-Dichloroethene        | ND                     | 310                    | 1100                   | 220                    |
| 1,2-Dichloroethane        | ND                     | 82                     | 140                    | 34                     |
| 1,2-Dichloropropane       | ND                     | 11                     | 11                     | ND                     |
| 1,2,4-Trimethylbenzene    | ND                     | ND                     | 9.5                    | ND                     |
| 1,3,5-Trimethylbenzene    | ND                     | ND                     | ND                     | ND                     |
| 2,2,4-trimethylpentane(2) | 30000                  | ND                     | ND                     | ND                     |
| 4-ethyltoluene            | ND                     | ND                     | ND                     | ND                     |
| Acetone                   | 86                     | 610                    | 49                     | 50                     |
| Benzene                   | ND                     | 19                     | 27                     | 9.9                    |
| Chloroethane              | ND                     | ND                     | 9                      | ND                     |
| Chloroform                | ND                     | 92                     | 150                    | 48                     |
| Chloromethane             | ND                     | ND                     | ND                     | ND                     |
| cis-1,2-Dichloroethene    | 38                     | 28000                  | 43000                  | 5400                   |
| Cyclohexane               | ND                     | 38                     | ND                     | ND                     |
| Carbon Disulfide          | ND                     | 12                     | 9.5                    | ND                     |
| Ethyl Acetate             | ND                     | ND                     | ND                     | ND                     |
| Ethylbenzene              | ND                     | 8                      | 58                     | ND                     |
| Freon 11                  | ND                     | 31                     | ND                     | ND                     |
| Hexane                    | ND                     | 230                    | ND                     | ND                     |
| Isoprpyl Alcohol          | ND                     | 310                    | 390                    | 220                    |
| m&p-Xylene                | ND                     | 35                     | 5.7                    | 7.7                    |
| Methyl Butl Ketone        | ND                     | 4.5                    | 0                      | ND                     |
| Methyl Ethyl Ketone       | ND                     | ND                     | 9.7                    | ND                     |
| Methyl Isobutly Ketone    | 52                     | 7.1                    | ND                     | ND                     |
| Methylene Chloride(3)     | 34                     | 320                    | 960                    | 160                    |
| o-Xylene                  | ND                     | 32                     | ND                     | 5.5                    |
| Styrene                   | ND                     | ND                     | 5.2                    | ND                     |
| Tetrachloroethylene       | 19                     | 5100                   | 11000                  | 2200                   |
| Tetrahydrofuran           | 3.7                    | 9.4                    | 37                     | ND                     |
| trans-1,2-Dichloroethene  | ND                     | ND                     | 300                    | 71                     |
| Toluene                   | 7                      | 570                    | 59                     | 93                     |
| Trichloroethene           | 19                     | 5300                   | 10000                  | 2300                   |
| Vinyl Chloride            | 61                     | 7200                   | 16000                  | 2900                   |
| <b>TOTAL</b>              | <b>30362.9</b>         | <b>60138.3</b>         | <b>104835.9</b>        | <b>18119.1</b>         |

(1) methylchloroform

(2) iso-octane

(3) dichloromethane

ND=Not Detected

**TABLE 9A  
CATALYTIC OXIDIZER EFFLUENT**

| PARAMETER                 | Conc(microg/m3)        | Conc(microg/m3)        | Conc(microg/m3)        | Conc(microg/m3)        |
|---------------------------|------------------------|------------------------|------------------------|------------------------|
|                           | CatOx Eff<br>3/10/2007 | CatOx Eff<br>3/15/2007 | CatOx Eff<br>3/21/2007 | CatOx Eff<br>3/22/2007 |
| 1,1,1-Trichloroethane(1)  | ND                     | ND                     | ND                     | ND                     |
| 1,1-Dichloroethane        | ND                     | ND                     | ND                     | ND                     |
| 1,1-Dichloroethene        | ND                     | ND                     | ND                     | ND                     |
| 1,2,4-Trimethylbenzene    | 7.1                    | 17                     | ND                     | 27                     |
| 1,3,5-Trimethylbenzene    | ND                     | ND                     | ND                     | 10                     |
| 2,2,4-trimethylpentane(2) | 10000                  | ND                     | ND                     | 19                     |
| 4-ethyltoluene            | ND                     | 5.8                    | ND                     | 6.1                    |
| Acetone                   | 140                    | 39                     | 29                     | ND                     |
| Benzene                   | ND                     | ND                     | ND                     | ND                     |
| Chloromethane             | ND                     | 8.3                    | ND                     | ND                     |
| cis-1,2-Dichloroethene    | ND                     | 11                     | 21                     | 16                     |
| Carbon Disulfide          | 8.6                    | 13                     | ND                     | 8.7                    |
| Ethyl Acetate             | ND                     | ND                     | ND                     | ND                     |
| Ethylbenzene              | 10                     | 290                    | ND                     | 190                    |
| Isopropyl Alcohol         | ND                     | 220                    | 220                    | 0                      |
| m&p-Xylene                | 25                     | 6.7                    | ND                     | 8.3                    |
| Methyl Isobutly Ketone    | 63                     | ND                     | ND                     | ND                     |
| Methylene Chloride(3)     | 8.3                    | 8.7                    | 7.6                    | 9.1                    |
| o-Xylene                  | 7.6                    | ND                     | ND                     | ND                     |
| Styrene                   | ND                     | 15                     | ND                     | 11                     |
| Tetrachloroethylene       | ND                     | 9.2                    | 9                      | 8.7                    |
| Tetrahydrofuran           | ND                     | ND                     | ND                     | ND                     |
| Toluene                   | 22                     | 15                     | 6.2                    | 39                     |
| Trichloroethene           | ND                     | ND                     | ND                     | ND                     |
| Vinyl Chloride            | ND                     | ND                     | ND                     | ND                     |
| <b>TOTAL</b>              | <b>10291.6</b>         | <b>658.7</b>           | <b>292.8</b>           | <b>352.9</b>           |
| (1) methylchloroform      |                        |                        |                        |                        |
| (2) iso-octane            |                        |                        |                        |                        |
| (3) dichloromethane       |                        |                        |                        |                        |

ND=Not Detected

**ATTACHMENT A**  
**BSA DISCHARGE CRITERIA**

## PART I: SPECIFIC CONDITIONS

### A. DISCHARGE LIMITATIONS & MONITORING REQUIREMENTS

During the period beginning the effective date of this Permit and lasting until the expiration date, discharge from the permitted facility outfall (see attached map) shall be limited and monitored **monthly** by the permittee as specified below.

| Sample Point | Parameter                           | Discharge Limitations <sup>(1)</sup> |  | Sampling Requirements |                         |
|--------------|-------------------------------------|--------------------------------------|--|-----------------------|-------------------------|
|              |                                     | Daily Max                            |  | Period                | Type                    |
| 001          | pH                                  | 5.0 – 12.0 S.U.                      |  | 1 day                 | Composite <sup>2</sup>  |
|              | Total Cadmium                       | 0.125 lbs.                           |  | 1 day                 | Composite <sup>2</sup>  |
|              | Total Chromium                      | 0.626 lbs.                           |  | 1 day                 | Composite <sup>2</sup>  |
|              | Total Copper                        | 2.002 lbs.                           |  | 1 day                 | Composite <sup>2</sup>  |
|              | Total Lead                          | 0.626 lbs.                           |  | 1 day                 | Composite <sup>2</sup>  |
|              | Total Mercury                       | 0.0001 lbs.                          |  | 1 day                 | Composite <sup>2</sup>  |
|              | Total Nickel                        | 1.721 lbs.                           |  | 1 day                 | Composite <sup>2</sup>  |
|              | Total Silver                        | 0.275 lbs.                           |  | 1 day                 | Composite <sup>2</sup>  |
|              | Total Zinc                          | 3.127 lbs.                           |  | 1 day                 | Composite <sup>2</sup>  |
|              | Total Extractable Hydrocarbons      | 100 mg/l                             |  | 1 day                 | Composite <sup>2</sup>  |
|              | Total Suspended Solids <sup>5</sup> | 250 mg/l                             |  | 1 day                 | Composite <sup>2</sup>  |
|              | Total Phosphates <sup>5</sup>       | 15.34 mg/l                           |  | 1 day                 | Composite <sup>2</sup>  |
|              | Total Flow                          | 15,00 gallons <sup>6</sup>           |  | 1 day                 | Discharge meter reading |

Footnotes are explained on page 5.