

Hawkeye Aluminum Company (HALCO) Davenport Works NPDES Monthly Report and Signatory Page Permit No. 7167099 July, 1995

Report Prepared by: Patricia Jackson, Environmental Specialist, Remediation & Water

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Submitted by: Mary Scott Wall
Mary Scott Wall, Works Manager

| River Water Intake | | | | | | |
|--------------------|-------------------------------|------------------|------------------|-----------------|----------------------|--------------|
| Date | TOTAL SUSP. SOLIDS MG/L | ALUMINUM MG/L | CHROMIUM MG/L | CYANIDE MG/L | OIL & GREASE MG/L | ZINC MG/L |
| 7 | 6 | 1.1 | <0.05 | <0.005 | <1 | 0.017 |
| 12 | 8 | 0.7 | <0.05 | <0.005 | <1 | 0.009 |
| 20 | 15 | 0.9 | <0.05 | <0.005 | <1 | 0.023 |
| 24 | 10 | 0.9 | <0.05 | <0.005 | 1 | <.005 |
| Average | 9.8 | .900 | NA | NA | .250 | 0.016 |
| Maximum | 15 | 1.1 | <0.05 | <0.005 | 1.000 | 0.023 |
| Minimum | 6 | 0.7 | <0.05 | <0.005 | <1 | <.005 |

| Discharge Water - Outfall Specific Parameters | | | | | | | | | | | | | | | | | | |
|---|---------------|-----|-----|-------|-----|--------|---|-----|-----|-----|-----|-----|----------------------------|-----|-----|------|-----|------|
| Date | FLOW (MGD) | | | | | | TEMPERATURE (°F) | | | | | | pH | | | | | |
| | Measure 1week | | | | | | Measure 1week | | | | | | Sample 1week - grab | | | | | |
| | 001 | 002 | 003 | 004 | 005 | 006 | 001 | 002 | 003 | 004 | 005 | 006 | 001 | 002 | 003 | 004 | 005 | 006 |
| 7 | * | * | * | 4.062 | * | 22.442 | * | * | * | 78 | * | 80 | * | * | * | 7.76 | * | 7.33 |
| 12 | * | * | * | 6.345 | * | 32.220 | * | * | * | 74 | * | 84 | * | * | * | 8.04 | * | 7.70 |
| 20 | * | * | * | 6.647 | * | 16.825 | * | * | * | 73 | * | 80 | * | * | * | 7.77 | * | 7.75 |
| 24 | * | * | * | 5.396 | * | 20.148 | * | * | * | 79 | * | 87 | * | * | * | 7.84 | * | 7.84 |
| Permit Limit | None | | | | | | 110° F Maximum Apr-Oct 85° F Maximum Nov-Mar | | | | | | 6.0 Minimum 9.0 Maximum | | | | | |
| Average | NA | NA | NA | 5.613 | NA | 22.909 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Maximum | * | * | * | 6.647 | * | 32.220 | * | * | * | 79 | * | 87 | * | * | * | 8.04 | * | 7.84 |
| Minimum | * | * | * | 4.062 | * | 16.825 | * | * | * | 73 | * | 80 | * | * | * | 7.76 | * | 7.33 |

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Outfall 801 - Combined Discharges

| Date | FLOW | | ALUMINUM | | ARSENIC | | BARIUM | |
|--------------|-----------------------|------------------------|-----------------------|--------------------|------------------------|------------------------|------------------------|----------------------|
| | Sample 1\week - grab | | Sample 1\week - grab | | Sample 1\month - grab | | Sample 1\week - grab | |
| | GPM | MGD | MG/L | POUNDS^ | MG/L | POUNDS | MG/L | POUNDS |
| 7 | 18,406 | 26.505 | 1.2 | 37 | <0.002 | 0 | 0.1 | 22.1 |
| 12 | 26,781 | 38.565 | 1.5 | 242 | NM | - | 0.1 | 32.1 |
| 20 | 16,300 | 23.472 | 1 | 28 | NM | - | 0.2 | 33.6 |
| 24 | 17,739 | 25.544 | 1.3 | 84 | NM | - | 0.1 | 25.8 |
| Permit Limit | | | 3.5 Avg 5.2 Max | 432 Avg 650 Max | 0.07 Avg 0.11 Max | 17.56 Avg 26.50 Max | None | None |
| Average | 19,807 | 28.522 | 1.25 | 98 | NA | 0.00 | 0.13 | 28.4 |
| Maximum | 26,781 | 38.565 | 1.50 | 242 | <0.002 | 0.00 | 0.20 | 33.6 |
| Minimum | 16,300 | 23.472 | 1.00 | 28 | <0.002 | 0.00 | 0.10 | 22.10 |
| Date | CADMIUM | | CHROMIUM | | COPPER | | CYANIDE | |
| | Sample 1\month - grab | | Sample 1\week - grab | | Sample 1\month - grab | | Sample 1\week - grab | |
| | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS |
| 7 | <0.005 | 0 | <0.05 | 0 | <0.02 | 0 | <0.005 | 0 |
| 12 | NM | - | <0.05 | 0 | NM | - | <0.005 | 0 |
| 20 | NM | - | <0.05 | 0 | NM | - | <0.005 | 0 |
| 24 | NM | - | <0.05 | 0 | NM | - | <0.005 | 0.27 |
| Permit Limit | 0.20 Avg 0.30 Max | 49.50 Avg 74.45 Max | 0.16 Avg 0.24 Max | 34 Avg 59 Max | 0.15 Avg 0.23 Max | 37.60 Avg 56.39 Max | 0.12 Avg 0.18 Max | 23 Avg 45 Max |
| Average | NA | 0.00 | NA | 0.00 | NA | 0.00 | NA | 0.07 |
| Maximum | <0.005 | 0.00 | <0.05 | 0.00 | <0.02 | 0.00 | <0.005 | 0.27 |
| Minimum | <0.005 | 0.00 | <0.05 | 0.00 | <0.02 | 0.00 | <0.005 | 0.00 |
| Date | FLUORIDE | | LEAD | | MERCURY | | NICKEL | |
| | Sample 1\month - grab | | Sample 1\month - grab | | Sample 1\month - grab | | Sample 1\month - grab | |
| | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS |
| 7 | 0.18 | 40.4 | <0.1 | 0 | <0.0002 | 0 | <0.04 | 0 |
| 12 | NM | - | NM | - | NM | - | NM | - |
| 20 | NM | - | NM | - | NM | - | NM | - |
| 24 | NM | - | NM | - | NM | - | NM | - |
| Permit Limit | None | None | 0.53 Avg 0.80 Max | 132 Avg 198 Max | .0010 Avg .0016 Max | 0.26 Avg 0.40 Max | 13.50 Avg 20.20 Max | 3337 Avg 5004 Max |
| Average | 0.183 | 40.4 | NA | 0 | NA | 0 | NA | 0 |
| Maximum | 0.183 | 40.4 | <0.1 | 0 | <0.0002 | 0 | <0.04 | 0 |
| Minimum | 0.183 | 40.4 | <0.1 | 0 | <0.0002 | 0 | <0.04 | 0 |

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Outfall 801 - Combined Discharges

| Date | OIL & GREASE | | PCBs | | PHENOLS | | SELENIUM | |
|--------------|----------------------|------------------------|----------------------------|----------|------------------------|-------------------------|-----------------------|--------------------|
| | Sample 1\week - grab | | Sample 1\week - grab | | Sample 1\month - grab | | Sample 1\month - grab | |
| | MG/L | POUNDS^ | PPB | POUNDS | MG/L | POUNDS | MG/L | POUNDS |
| 7 | <1 | 0 | <0.2 | 0 | 0.047 | 10.32 | <0.002 | 0 |
| 12 | 1.2 | 374 | <0.2 | 0 | NM | - | NM | - |
| 20 | <1 | 140 | <0.2 | 0 | NM | - | NM | - |
| 24 | <1 | 45 | <0.2 | 0 | NM | - | NM | - |
| Permit Limit | None | 5,010 Avg 8,350 Max | .00003 mg/l or <0.5 PPB | None | 10.40 Avg 15.60 Max | 257 Avg 385 Max | 0.47 Avg 0.70 Max | 116 Avg 174 Max |
| Average | 0.3 | 140 | NA | 0 | 0.047 | 10.32 | NA | 0 |
| Maximum | 1.2 | 374 | <0.2 | 0 | 0.047 | 10.32 | <0.002 | 0 |
| Minimum | <1 | 0 | <0.2 | 0 | 0.047 | 10.32 | <0.002 | 0 |
| Date | SILVER | | TETRACHLOROETHYLENE | | SUSPENDED SOLIDS | | ZINC | |
| | Sample 1\week - grab | | Sample 2\month - grab | | Sample 1\week - grab | | Sample 1\week - grab | |
| | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS^ | MG/L | POUNDS^ |
| 7 | 0.01 | 2.89 | <0.005 | 1.08 | 5 | 135 | 0.021 | 0.94 |
| 12 | <0.01 | 0 | NM | | 41 | 10,630 | 0.009 | 0.54 |
| 20 | <0.01 | 0 | 0.013 | 0.95 | 11 | 0 | 0.011 | 0 |
| 24 | <0.01 | 0 | NM | | 8 | 180 | 0.009 | 1.83 |
| Permit Limit | 0.18 Avg 0.26 Max | 43.78 Avg 65.54 Max | None | 1.80 Max | None | 8,140 Avg 17,117 Max | 1.34 Avg 2.00 Max | 113 Avg 270 Max |
| Average | 0.025 | 0.7225 | 0.065 | 1.015 | 16.25 | 2,736 | 0.0125 | 0.8275 |
| Maximum | 0.01 | 2.89 | 0.013 | 1.08 | 41 | 10,630 | 0.021 | 1.83 |
| Minimum | <0.01 | 0 | <0.005 | 0.95 | 5 | 0 | 0.009 | 0 |

SYMBOL

DESCRIPTION

- NM Indicates that a sample was not collected.
- NA Not Applicable; either average values are not appropriate because of less than values or an average value for that parameter is not meaningful.
- * Indicates that there was no flow in the outfall at the time samples were collected.
- < Less than the value (detection limit) reported.
- NS Not sampled due to flood.
- ^ The reported mass values are net addition numbers.

Hawkeye Aluminum Company (HALCO) Davenport Works NPDES Monthly Report and Signatory Page Permit No. 7167099 August, 1995

Report Prepared by: Patricia Jackson, Environmental Specialist, Remediation & Water

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Submitted by: Mary Scott Wall
Mary Scott Wall, Works Manager

| River Water Intake | | | | | | |
|--------------------|-------------------------------|------------------|------------------|-----------------|----------------------|--------------|
| Date | TOTAL SUSP. SOLIDS MG/L | ALUMINUM MG/L | CHROMIUM MG/L | CYANIDE MG/L | OIL & GREASE MG/L | ZINC MG/L |
| 2 | 12 | 0.8 | 0.08 | <0.005 | <1 | <.005 |
| 10 | 7 | 0.7 | 0.05 | <0.005 | 2 | <.005 |
| 15 | 8 | 0.7 | 0.09 | <0.005 | <1 | 0.009 |
| 21 | 12 | 0.9 | 0.12 | <0.005 | <1 | <.005 |
| 27 | 6 | 0.7 | 0.08 | | | |
| Average | 9.0 | .760 | .084 | NA | NA | NA |
| Maximum | 12 | 0.9 | .120 | <0.005 | 2.000 | 0.009 |
| Minimum | 6 | 0.7 | .050 | <0.005 | <1 | <.005 |

| Discharge Water - Outfall Specific Parameters | | | | | | | | | | | | | | | | | | |
|---|---------------|-----|-----|-------|------|--------|---|-----|-----|-----|-----|-----|----------------------------|-----|-----|------|------|------|
| Date | FLOW (MGD) | | | | | | TEMPERATURE (°F) | | | | | | pH | | | | | |
| | Measure 1week | | | | | | Measure 1week | | | | | | Sample 1week - grab | | | | | |
| | 001 | 002 | 003 | 004 | 005 | 006 | 001 | 002 | 003 | 004 | 005 | 006 | 001 | 002 | 003 | 004 | 005 | 006 |
| 2 | * | * | * | 7.178 | * | 18.203 | * | * | * | 62 | * | 83 | * | * | * | 7.46 | * | 6.90 |
| 10 | * | * | * | 9.599 | * | 24.115 | * | * | * | 77 | * | 79 | * | * | * | 7.49 | * | 6.92 |
| 15 | * | * | * | 10.67 | * | 22.230 | * | * | * | 75 | * | 84 | * | * | * | 7.60 | * | 7.00 |
| 21 | * | * | * | 5.716 | .055 | 26.786 | * | * | * | 72 | 74 | 86 | * | * | * | 7.86 | 8.71 | 7.36 |
| 27 | | | | 4.152 | | 19.560 | | | | 76 | | 80 | | | | 7.75 | * | 7.67 |
| Permit Limit | None | | | | | | 110° F Maximum Apr-Oct 85° F Maximum Nov-Mar | | | | | | 6.0 Minimum 9.0 Maximum | | | | | |
| Average | NA | NA | NA | NA | .055 | 22.179 | NA | NA | NA | 72 | 74 | 82 | NA | NA | NA | 7.63 | 8.71 | 7.17 |
| Maximum | * | * | * | 10.67 | .055 | 26.786 | * | * | * | 77 | 74 | 86 | * | * | * | 7.86 | 8.71 | 7.67 |
| Minimum | * | * | * | 4.152 | .055 | 18.203 | * | * | * | 62 | 74 | 79 | * | * | * | 7.46 | 8.71 | 6.90 |

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Outfall 801 - Combined Discharges

| Date | FLOW | | ALUMINUM | | ARSENIC | | BARIUM | |
|--------------|-----------------------|------------------------|-----------------------|--------------------|------------------------|------------------------|------------------------|----------------------|
| | Sample 1\week - grab | | Sample 1\week - grab | | Sample 1\month - grab | | Sample 1\week - grab | |
| | GPM | MGD | MG/L | POUNDS^ | MG/L | POUNDS | MG/L | POUNDS |
| 2 | 17,626 | 25.381 | 1.1 | 84 | <0.002 | 0 | 0.2 | 42 |
| 10 | 23,411 | 33.714 | 0.6 | 24 | NM | - | 0.2 | 56 |
| 15 | 22,843 | 32.896 | 0.6 | 9 | NM | - | 0.2 | 55 |
| 21 | 22,609 | 32.557 | 0.7 | 5 | NM | - | 0.1 | 32 |
| 27 | 16,467 | 23.712 | 0.5 | 0 | | | 0.200 | 40 |
| Permit Limit | | | 3.5 Avg 5.2 Max | 432 Avg 650 Max | 0.07 Avg 0.11 Max | 17.56 Avg 26.50 Max | None | None |
| Average | 20,591 | 29.652 | 0.70 | 24 | NA | 0.00 | 0.180 | 45.0 |
| Maximum | 23,411 | 33.714 | 1.10 | 84 | <0.002 | 0.00 | 0.200 | 56.0 |
| Minimum | 16,467 | 23.712 | 0.50 | 0 | <0.002 | 0.00 | 0.100 | 32 |
| Date | CADMIUM | | CHROMIUM | | COPPER | | CYANIDE | |
| | Sample 1\month - grab | | Sample 1\week - grab | | Sample 1\month - grab | | Sample 1\week - grab | |
| | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS |
| 2 | <0.005 | 0 | <0.05 | 3.6 | <0.02 | 1.8 | <0.005 | 0.5 |
| 10 | NM | - | 0.06 | 17.7 | NM | - | <0.005 | 1.2 |
| 15 | NM | - | 0.2 | 32 | NM | - | <0.005 | 1 |
| 21 | NM | - | <0.05 | 0 | NM | - | <0.005 | 0.34 |
| 27 | NM | - | 0.07 | 13.8 | NM | - | <0.005 | 0.2 |
| Permit Limit | 0.20 Avg 0.30 Max | 49.50 Avg 74.45 Max | 0.16 Avg 0.24 Max | 34 Avg 59 Max | 0.15 Avg 0.23 Max | 37.60 Avg 56.39 Max | 0.12 Avg 0.18 Max | 23 Avg 45 Max |
| Average | NA | 0.00 | 0.11 | 13.42 | NA | 1.80 | NA | 0.65 |
| Maximum | <0.005 | 0.00 | 0.20 | 32.00 | <0.02 | 1.80 | <0.005 | 1.20 |
| Minimum | <0.005 | 0.00 | <0.05 | 0.00 | <0.02 | 1.80 | <0.005 | 0.20 |
| Date | FLUORIDE | | LEAD | | MERCURY | | NICKEL | |
| | Sample 1\month - grab | | Sample 1\month - grab | | Sample 1\month - grab | | Sample 1\month - grab | |
| | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS |
| 2 | 0.19 | 40.8 | <0.1 | 0 | <0.0002 | 0 | <0.04 | 2.4 |
| 10 | NM | - | NM | - | NM | - | NM | - |
| 15 | NM | - | NM | - | NM | - | NM | - |
| 21 | NM | - | NM | - | NM | - | NM | - |
| 27 | NM | - | NM | - | NM | - | NM | - |
| Permit Limit | None | None | 0.53 Avg 0.80 Max | 132 Avg 198 Max | .0010 Avg .0016 Max | 0.26 Avg 0.40 Max | 13.50 Avg 20.20 Max | 3337 Avg 5004 Max |
| Average | 0.190 | 40.8 | NA | 0 | NA | 0 | NA | 2.4 |
| Maximum | 0.190 | 40.8 | <0.1 | 0 | <0.0002 | 0 | <0.04 | 2.4 |
| Minimum | 0.190 | 40.8 | <0.1 | 0 | <0.0002 | 0 | <0.04 | 2.4 |

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Outfall 801 - Combined Discharges

| Date | OIL & GREASE | | PCBs | | PHENOLS | | SELENIUM | |
|--------------|----------------------|------------------------|----------------------------|--------|------------------------|--------------------|-----------------------|--------------------|
| | Sample 1\week - grab | | Sample 1\week - grab | | Sample 1\month - grab | | Sample 1\month - grab | |
| | MG/L | POUNDS^ | PPB | POUNDS | MG/L | POUNDS | MG/L | POUNDS |
| 2 | <1 | 0 | <0.2 | 0.03 | 0.026 | 5.58 | <0.002 | 0 |
| 10 | 1 | 320 | <0.2 | 0 | NM | - | NM | - |
| 15 | 3 | 912 | <0.2 | 0 | NM | - | NM | - |
| 21 | 5.3 | 1434 | <0.2 | 0 | NM | - | NM | - |
| 27 | 0.5 | 104 | <0.2 | 0 | NM | - | NM | - |
| Permit Limit | None | 5,010 Avg 8,350 Max | .00003 mg/l or <0.5 PPB | None | 10.40 Avg 15.60 Max | 257 Avg 385 Max | 0.47 Avg 0.70 Max | 116 Avg 174 Max |
| Average | NA | 554 | NA | 0.006 | 0.026 | 5.58 | NA | 0 |
| Maximum | 5.3 | 1434 | <0.2 | 0.03 | 0.026 | 5.58 | <0.002 | 0 |
| Minimum | <1 | 0 | <0.2 | 0 | 0.026 | 5.58 | <0.002 | 0 |

| Date | SILVER | | TETRACHLOROETHYLENE | | SUSPENDED SOLIDS | | ZINC | |
|--------------|----------------------|------------------------|-----------------------|----------|----------------------|-------------------------|----------------------|--------------------|
| | Sample 1\week - grab | | Sample 2\month - grab | | Sample 1\week - grab | | Sample 1\week - grab | |
| | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS^ | MG/L | POUNDS^ |
| 2 | <0.01 | 0 | NM | - | 9.11 | 299 | 0.028 | 5.98 |
| 10 | <0.01 | 0 | 0.009 | 1.13 | 55.06 | 13,503 | <0.005 | 1 |
| 15 | <0.01 | 0 | NM | - | 7.3 | 178 | <0.005 | 0 |
| 21 | <0.01 | 0.01 | 0.005 | 1.43 | 9.19 | 0 | <0.005 | 0 |
| 27 | <0.01 | 0 | NM | - | 3.88 | 69 | 0.007 | 1.3 |
| Permit Limit | 0.18 Avg 0.26 Max | 43.78 Avg 65.54 Max | None | 1.80 Max | None | 8,140 Avg 17,117 Max | 1.34 Avg 2.00 Max | 113 Avg 270 Max |
| Average | NA | 0.002 | 0.007 | 1.28 | 16.908 | 2810 | NA | 1.656 |
| Maximum | <0.01 | 0.01 | 0.009 | 1.43 | 55.06 | 13,503 | 0.028 | 5.98 |
| Minimum | <0.01 | 0 | 0.005 | 1.13 | 3.88 | 0 | <0.005 | 0 |

SYMBOL

DESCRIPTION

- NM Indicates that a sample was not collected.
- NA Not Applicable; either average values are not appropriate because of less than values or an average value for that parameter is not meaningful.
- * Indicates that there was no flow in the outfall at the time samples were collected.
- < Less than the value (detection limit) reported.
- NS Not sampled due to flood.
- ^ The reported mass values are net addition numbers.

Hawkeye Aluminum Company (HALCO) Davenport Works NPDES Monthly Report and Signatory Page Permit No. 7167099 September, 1995

Report Prepared by: Patricia Jackson, Environmental Specialist, Remediation & Water

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Submitted by: Mary Scott Wall
Mary Scott Wall, Works Manager

| River Water Intake | | | | | | |
|--------------------|-------------------------------|------------------|------------------|-----------------|----------------------|--------------|
| Date | TOTAL SUSP. SOLIDS MG/L | ALUMINUM MG/L | CHROMIUM MG/L | CYANIDE MG/L | OIL & GREASE MG/L | ZINC MG/L |
| 4 | 8 | 1.0 | <0.05 | <0.005 | 5 | 0.02 |
| 10 | 16 | 1.1 | <0.05 | 0 | <1 | 0.026 |
| 16 | 11 | 1.0 | <0.05 | <0.005 | <1 | 0.044 |
| 22 | 12 | 1.0 | <0.05 | <0.005 | 1 | 0.023 |
| Average | 11.8 | 1.025 | NA | .001 | 3.000 | 0.028 |
| Maximum | 16 | 1.1 | <0.05 | .005 | 5.000 | 0.044 |
| Minimum | 8 | 1.0 | <0.05 | <0.005 | <1 | .020 |

| Discharge Water - Outfall Specific Parameters | | | | | | | | | | | | | | | | | | |
|---|----------------|-----|-----|-------|------|--------|---|-----|-----|-----|-----|-----|----------------------------|-----|-----|------|------|------|
| Date | FLOW (MGD) | | | | | | TEMPERATURE (°F) | | | | | | pH | | | | | |
| | Measure 1\week | | | | | | Measure 1\week | | | | | | Sample 1\week - grab | | | | | |
| | 001 | 002 | 003 | 004 | 005 | 006 | 001 | 002 | 003 | 004 | 005 | 006 | 001 | 002 | 003 | 004 | 005 | 006 |
| 4 | * | * | * | 4.049 | * | 25.793 | * | * | * | 74 | * | 84 | * | * | * | 7.45 | * | 7.47 |
| 10 | .912 | * | * | 3.093 | * | 21.519 | * | * | * | 67 | * | 75 | * | * | * | 7.64 | * | 7.04 |
| 16 | * | * | * | 5.203 | .996 | 18.186 | 63 | * | * | 77 | * | 80 | 7.68 | * | * | 8.03 | 7.73 | 7.73 |
| 22 | * | * | * | 3.554 | * | 24.103 | * | * | * | 65 | * | 79 | * | * | * | 8.02 | * | 7.52 |
| Permit Limit | None | | | | | | 110° F Maximum Apr-Oct 85° F Maximum Nov-Mar | | | | | | 6.0 Minimum 9.0 Maximum | | | | | |
| Average | .912 | NA | NA | 3.975 | .996 | 22.400 | 63 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Maximum | .912 | * | * | 5.203 | .996 | 25.793 | 63 | * | * | 77 | * | 84 | 7.68 | * | * | 8.03 | 7.73 | 7.73 |
| Minimum | .912 | * | * | 3.093 | .996 | 18.186 | 63 | * | * | 65 | * | 75 | 7.68 | * | * | 7.45 | 7.73 | 7.04 |

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Outfall 801 - Combined Discharges

| Date | FLOW | | ALUMINUM | | ARSENIC | | BARIUM | |
|--------------|-----------------------|------------------------|-----------------------|--------------------|------------------------|------------------------|------------------------|----------------------|
| | Sample 1\week - grab | | Sample 1\week - grab | | Sample 1\month - grab | | Sample 1\week - grab | |
| | GPM | MGD | MG/L | POUNDS^ | MG/L | POUNDS | MG/L | POUNDS |
| 4 | 20,724 | 29.843 | 1.4 | 93 | <0.002 | 0 | 0.1 | 24 |
| 10 | 17,725 | 25.524 | 1.2 | 33 | NM | - | 0.1 | 23.8 |
| 16 | 16,934 | 24.385 | 0.8 | 0 | NM | - | 0.1 | 24.7 |
| 22 | 19,206 | 27.657 | 1.1 | 20 | NM | - | 0.2 | 46.1 |
| Permit Limit | | | 3.5 Avg 5.2 Max | 432 Avg 650 Max | 0.07 Avg 0.11 Max | 17.56 Avg 26.50 Max | None | None |
| Average | 18,647 | 26.852 | 1.10 | 37 | NA | 0.00 | 0.13 | 29.7 |
| Maximum | 20,724 | 29.843 | 1.40 | 93 | <0.002 | 0.00 | 0.20 | 46.1 |
| Minimum | 16,934 | 24.385 | 0.80 | 0 | <0.002 | 0.00 | 0.10 | 24 |
| Date | CADMIUM | | CHROMIUM | | COPPER | | CYANIDE | |
| | Sample 1\month - grab | | Sample 1\week - grab | | Sample 1\month - grab | | Sample 1\week - grab | |
| | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS |
| 4 | <0.005 | 0 | <0.05 | 0 | <0.02 | 7.4 | <0.005 | 0.3 |
| 10 | NM | - | <0.05 | 0 | NM | - | <0.005 | 0 |
| 16 | NM | - | <0.05 | 0 | NM | - | <0.005 | 0 |
| 22 | NM | - | <0.05 | 0 | NM | - | 0.005 | 1.21 |
| Permit Limit | 0.20 Avg 0.30 Max | 49.50 Avg 74.45 Max | 0.16 Avg 0.24 Max | 34 Avg 59 Max | 0.15 Avg 0.23 Max | 37.60 Avg 56.39 Max | 0.12 Avg 0.18 Max | 23 Avg 45 Max |
| Average | NA | 0.00 | NA | 0.00 | NA | 7.40 | 0.001 | 0.38 |
| Maximum | <0.005 | 0.00 | <0.05 | 0.00 | <0.02 | 7.40 | 0.005 | 1.21 |
| Minimum | <0.005 | 0.00 | <0.05 | 0.00 | <0.02 | 7.40 | <0.005 | 0.00 |
| Date | FLUORIDE | | LEAD | | MERCURY | | NICKEL | |
| | Sample 1\month - grab | | Sample 1\month - grab | | Sample 1\month - grab | | Sample 1\month - grab | |
| | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS |
| 4 | .187 | 46.5 | <0.1 | 15.5 | <0.0002 | 0 | <0.04 | 0 |
| 10 | NM | - | NM | - | NM | - | NM | - |
| 16 | NM | - | NM | - | NM | - | NM | - |
| 22 | NM | - | NM | - | NM | - | NM | - |
| Permit Limit | None | None | 0.53 Avg 0.80 Max | 132 Avg 198 Max | .0010 Avg .0016 Max | 0.26 Avg 0.40 Max | 13.50 Avg 20.20 Max | 3337 Avg 5004 Max |
| Average | 0.187 | 46.5 | NA | 15.5 | NA | 0 | NA | 0 |
| Maximum | 0.187 | 46.5 | <0.1 | 15.5 | <0.0002 | 0 | <0.04 | 0 |
| Minimum | 0.187 | 46.5 | <0.1 | 15.5 | <0.0002 | 0 | <0.04 | 0 |

Hawkeye Aluminum Company (HALCO)

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Outfall 801 - Combined Discharges

| Date | OIL & GREASE | | PCBs | | PHENOLS | | SELENIUM | |
|--------------|----------------------|------------------------|----------------------------|--------|------------------------|--------------------|-----------------------|--------------------|
| | Sample 1\week - grab | | Sample 1\week - grab | | Sample 1\month - grab | | Sample 1\month - grab | |
| | MG/L | POUNDS^ | PPB | POUNDS | MG/L | POUNDS | MG/L | POUNDS |
| 4 | 3.7 | 540 | <0.005 | 0 | 19.43 | 161.05 | <0.002 | 0 |
| 10 | 1.7 | 359 | <0.005 | 0 | NM | - | NM | - |
| 16 | <1 | 0 | <0.005 | 0 | NM | - | NM | - |
| 22 | <1 | 0 | <0.005 | 0 | NM | - | NM | - |
| Permit Limit | None | 5,010 Avg 8,350 Max | .00003 mg/l or <0.5 PPB | None | 10.40 Avg 15.60 Max | 257 Avg 385 Max | 0.47 Avg 0.70 Max | 116 Avg 174 Max |
| Average | 1.4 | 225 | NA | 0 | 19.43 | 161.05 | NA | 0 |
| Maximum | 3.7 | 540 | <0.005 | 0 | 19.43 | 161.05 | <0.002 | 0 |
| Minimum | <1 | 0 | <0.005 | 0 | 19.43 | 161.05 | <0.002 | 0 |

| Date | SILVER | | TETRACHLOROETHYLENE | | SUSPENDED SOLIDS | | ZINC | |
|--------------|----------------------|------------------------|-----------------------|----------|----------------------|-------------------------|----------------------|--------------------|
| | Sample 1\week - grab | | Sample 2\month - grab | | Sample 1\week - grab | | Sample 1\week - grab | |
| | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS^ | MG/L | POUNDS^ |
| 4 | <0.01 | 0 | 0.007 | 1.75 | 16 | 1768 | 0.031 | 2.9 |
| 10 | <0.01 | 1.79 | NM | | 20 | 921 | 0.048 | 4.79 |
| 16 | <0.01 | 0 | 0.006 | 1.3 | 11 | 130 | 0.019 | 0 |
| 22 | <0.01 | 0 | NM | | 16 | 1034 | 0.054 | 7.1 |
| Permit Limit | 0.18 Avg 0.26 Max | 43.78 Avg 65.54 Max | None | 1.80 Max | None | 8,140 Avg 17,117 Max | 1.34 Avg 2.00 Max | 113 Avg 270 Max |
| Average | NA | 0.4475 | 0.0065 | 1.525 | 15.75 | 963.25 | 0.038 | 3.6975 |
| Maximum | <0.01 | 1.79 | 0.007 | 1.75 | 20 | 1768 | 0.054 | 7.1 |
| Minimum | <0.01 | 0 | 0.006 | 1.3 | 11 | 130 | 0.019 | 0 |

SYMBOL

DESCRIPTION

- NM Indicates that a sample was not collected.
- NA Not Applicable; either average values are not appropriate because of less than values or an average value for that parameter is not meaningful.
- * Indicates that there was no flow in the outfall at the time samples were collected.
- < Less than the value (detection limit) reported.
- NS Not sampled due to flood.
- ^ The reported mass values are net addition numbers.

Hawkeye Aluminum Company (HALCO) Davenport Works NPDES Monthly Report and Signatory Page Permit No. 7167099 October, 1995

Report Prepared by: Patricia Jackson, Environmental Specialist, Remediation & Water

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Submitted by: Mary Scott Wall
Mary Scott Wall, Works Manager

| River Water Intake | | | | | | |
|--------------------|-------------------------------|------------------|------------------|-----------------|----------------------|--------------|
| Date | TOTAL SUSP. SOLIDS MG/L | ALUMINUM MG/L | CHROMIUM MG/L | CYANIDE MG/L | OIL & GREASE MG/L | ZINC MG/L |
| 2 | 12 | 0.9 | <0.05 | <0.005 | 2 | <.005 |
| 8 | 7 | 1.2 | <0.05 | <0.005 | <1 | 0.007 |
| 14 | 7 | 1.1 | <0.05 | <0.005 | 2 | <.005 |
| 20 | 9 | 1.3 | <0.05 | <0.005 | 3 | <.005 |
| 26 | 11 | 1.1 | 0 | .000 | <1 | <.005 |
| Average | 9.2 | 1.120 | .000 | .000 | 1.000 | 0.001 |
| Maximum | 12 | 1.3 | <0.05 | <0.005 | 3.000 | 0.007 |
| Minimum | 7 | 0.9 | <0.05 | <0.005 | <1 | <.005 |

| Discharge Water - Outfall Specific Parameters | | | | | | | | | | | | | | | | | | |
|---|----------------|-----|-----|-------|------|--------|---|-----|-----|-----|-----|-----|----------------------------|-----|-----|------|------|------|
| Date | FLOW (MGD) | | | | | | TEMPERATURE (°F) | | | | | | pH | | | | | |
| | Measure 1\week | | | | | | Measure 1\week | | | | | | Sample 1\week - grab | | | | | |
| | 001 | 002 | 003 | 004 | 005 | 006 | 001 | 002 | 003 | 004 | 005 | 006 | 001 | 002 | 003 | 004 | 005 | 006 |
| 2 | * | * | * | 3.900 | * | 18.955 | * | * | * | 72 | * | 75 | * | * | * | 7.39 | * | 7.41 |
| 8 | * | * | * | 8.001 | * | 29.244 | * | * | * | 65 | * | 75 | * | * | * | 7.80 | * | 7.33 |
| 14 | * | * | * | 2.451 | .282 | 25.471 | * | * | * | 63 | 78 | 73 | * | * | * | 7.86 | 6.71 | 7.46 |
| 20 | * | * | * | 4.224 | * | 20.439 | * | * | * | 62 | * | 66 | * | * | * | 8.05 | * | 7.67 |
| 26 | * | * | * | 2.848 | * | 27.027 | | | | 70 | | 62 | | | | 7.47 | | 7.82 |
| Permit Limit | None | | | | | | 110° F Maximum Apr-Oct 85° F Maximum Nov-Mar | | | | | | 6.0 Minimum 9.0 Maximum | | | | | |
| Average | NA | NA | NA | NA | .282 | 24.227 | NA | NA | NA | NA | 78 | NA | NA | NA | NA | NA | NA | NA |
| Maximum | * | * | * | 8.001 | .282 | 29.244 | * | * | * | 72 | 78 | 75 | * | * | * | 8.05 | 6.71 | 7.82 |
| Minimum | * | * | * | 2.451 | .282 | 18.955 | * | * | * | 62 | 78 | 62 | * | * | * | 7.39 | 6.71 | 7.33 |

Hawkeye Aluminum Company (HALCO)
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Outfall 801 - Combined Discharges

| Date | FLOW | | ALUMINUM | | ARSENIC | | BARIUM | |
|--------------|-----------------------|------------------------|-----------------------|--------------------|------------------------|------------------------|------------------------|----------------------|
| | Sample 1\week - grab | | Sample 1\week - grab | | Sample 1\month - grab | | Sample 1\week - grab | |
| | GPM | MGD | MG/L | POUNDS^ | MG/L | POUNDS | MG/L | POUNDS |
| 2 | 15,871 | 22.854 | 0.9 | 3 | <0.002 | 0 | <0.1 | 0 |
| 8 | 25,864 | 37.244 | 1.7 | 151 | NM | - | <0.1 | 6.7 |
| 14 | 19,586 | 28.204 | 1.3 | 36 | NM | - | 0.2 | 47 |
| 20 | 17,127 | 24.663 | 1.8 | 97 | NM | - | 0.2 | 41.1 |
| 26 | 20,747 | 29.876 | 1.8 | 237 | | | 0.200 | 52.2 |
| Permit Limit | | | 3.5 Avg 5.2 Max | 432 Avg 650 Max | 0.07 Avg 0.11 Max | 17.56 Avg 26.50 Max | None | None |
| Average | 19,839 | 28.568 | 1.50 | 105 | NA | 0.00 | 0.12 | 29.4 |
| Maximum | 25,864 | 37.244 | 1.80 | 237 | <0.002 | 0.00 | 0.20 | 52.2 |
| Minimum | 15,871 | 22.854 | 0.90 | 3 | <0.002 | 0.00 | <0.1 | 0 |
| Date | CADMIUM | | CHROMIUM | | COPPER | | CYANIDE | |
| | Sample 1\month - grab | | Sample 1\week - grab | | Sample 1\month - grab | | Sample 1\week - grab | |
| | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS |
| 2 | <0.005 | 0 | <0.05 | 0 | <0.02 | 0.9 | 0.012 | 2.25 |
| 8 | NM | - | <0.05 | 0 | NM | - | <0.005 | 1.46 |
| 14 | NM | - | <0.05 | 0 | NM | - | <0.005 | 0 |
| 20 | NM | - | <0.05 | 0 | NM | - | <0.005 | 0 |
| 26 | | | | | | | 0.006 | 1.49 |
| Permit Limit | 0.20 Avg 0.30 Max | 49.50 Avg 74.45 Max | 0.16 Avg 0.24 Max | 34 Avg 59 Max | 0.15 Avg 0.23 Max | 37.60 Avg 56.39 Max | 0.12 Avg 0.18 Max | 23 Avg 45 Max |
| Average | NA | 0.00 | NA | 0.00 | NA | 0.90 | 0.009 | 1.04 |
| Maximum | <0.005 | 0.00 | <0.05 | 0.00 | <0.02 | 0.90 | 0.012 | 2.25 |
| Minimum | <0.005 | 0.00 | <0.05 | 0.00 | <0.02 | 0.90 | <0.005 | 0.00 |
| Date | FLUORIDE | | LEAD | | MERCURY | | NICKEL | |
| | Sample 1\month - grab | | Sample 1\month - grab | | Sample 1\month - grab | | Sample 1\month - grab | |
| | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS |
| 2 | 0.15 | 28.3 | <0.1 | 0 | <0.0002 | 0 | <0.04 | 6.3 |
| 8 | NM | - | NM | - | NM | - | NM | - |
| 14 | NM | - | NM | - | NM | - | NM | - |
| 20 | NM | - | NM | - | NM | - | NM | - |
| 26 | | | | | | | | |
| Permit Limit | None | None | 0.53 Avg 0.80 Max | 132 Avg 198 Max | .0010 Avg .0016 Max | 0.26 Avg 0.40 Max | 13.50 Avg 20.20 Max | 3337 Avg 5004 Max |
| Average | 0.149 | 28.3 | NA | 0 | NA | 0 | NA | 6.3 |
| Maximum | 0.149 | 28.3 | <0.1 | 0 | <0.0002 | 0 | <0.04 | 6.3 |
| Minimum | 0.149 | 28.3 | <0.1 | 0 | <0.0002 | 0 | <0.04 | 6.3 |

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Outfall 801 - Combined Discharges

| Date | OIL & GREASE | | PCBs | | PHENOLS | | SELENIUM | |
|--------------|----------------------|------------------------|----------------------------|--------|------------------------|--------------------|-----------------------|--------------------|
| | Sample 1\week - grab | | Sample 1\week - grab | | Sample 1\month - grab | | Sample 1\month - grab | |
| | MG/L | POUNDS^ | PPB | POUNDS | MG/L | POUNDS | MG/L | POUNDS |
| 2 | 2 | 65 | <0.2 | 0 | 0.018 | 3.51 | <0.002 | 0 |
| 8 | 4 | 1241 | <0.2 | 0 | NM | - | NM | - |
| 14 | 8 | 1296 | <0.2 | 0 | NM | - | NM | - |
| 20 | 1.7 | 0 | 0.65 | 0.042 | NM | - | NM | - |
| 26 | 4.5 | 1115 | 0.1 | 0.014 | | | | |
| Permit Limit | None | 5,010 Avg 8,350 Max | .00003 mg/l or <0.5 PPB | None | 10.40 Avg 15.60 Max | 257 Avg 385 Max | 0.47 Avg 0.70 Max | 116 Avg 174 Max |
| Average | 4 | 743 | NA | 0.0112 | 0.018 | 3.51 | NA | 0 |
| Maximum | 7.5 | 1296 | 0.65 | 0.042 | 0.018 | 3.51 | <0.002 | 0 |
| Minimum | 1.7 | 0 | <0.2 | 0 | 0.018 | 3.51 | <0.002 | 0 |

| Date | SILVER | | TETRACHLOROETHYLENE | | SUSPENDED SOLIDS | | ZINC | |
|--------------|----------------------|------------------------|-----------------------|-------------|----------------------|-------------------------|----------------------|--------------------|
| | Sample 1\week - grab | | Sample 2\month - grab | | Sample 1\week - grab | | Sample 1\week - grab | |
| | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS^ | MG/L | POUNDS^ |
| 2 | <0.01 | 0 | 0.005 | 1.04 | 13 | 255 | 0.008 | 1.58 |
| 8 | <0.01 | 0 | NM | | 22 | 4589 | 0.044 | 11.63 |
| 14 | <0.01 | 0 | <0.005 | 0.55 | 18 | 2519 | 0.028 | 6.67 |
| 20 | <0.01 | 1.42 | NM | | 20 | 2248 | 0.024 | 4.94 |
| 26 | | | <0.005 | 1.19 | 31 | 5044 | <0.005 | 1.16 |
| Permit Limit | 0.18 Avg 0.26 Max | 43.78 Avg 65.54 Max | None | 1.80 Max | None | 8,140 Avg 17,117 Max | 1.34 Avg 2.00 Max | 113 Avg 270 Max |
| Average | NA | 0.355 | 0.002 | 0.926666667 | 20.8 | 2931 | 0.026 | 5.196 |
| Maximum | <0.01 | 1.42 | 0.005 | 1.19 | 31 | 5044 | 0.044 | 11.63 |
| Minimum | <0.01 | 0 | <0.005 | 0.55 | 13 | 255 | <0.005 | 1.16 |

SYMBOL

DESCRIPTION

- NM Indicates that a sample was not collected.
- NA Not Applicable; either average values are not appropriate because of less than values or an average value for that parameter is not meaningful.
- * Indicates that there was no flow in the outfall at the time samples were collected.
- < Less than the value (detection limit) reported.
- NS Not sampled due to flood.
- ^ The reported mass values are net addition numbers.

Hawkeye Aluminum Company (HALCO) Davenport Works NPDES Monthly Report and Signatory Page Permit No. 7167099 November, 1995

Report Prepared by: Patricia Jackson, Environmental Specialist, Remediation & Water

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Submitted by: Mary Scott Wall
Mary Scott Wall, Works Manager

| River Water Intake | | | | | | |
|--------------------|-------------------------------|------------------|------------------|-----------------|----------------------|--------------|
| Date | TOTAL SUSP. SOLIDS MG/L | ALUMINUM MG/L | CHROMIUM MG/L | CYANIDE MG/L | OIL & GREASE MG/L | ZINC MG/L |
| 6 | 11 | 1.2 | <0.05 | <0.005 | <1 | 0.008 |
| 11 | 8 | 1.0 | <0.05 | <0.005 | <1 | 0.012 |
| 19 | 9 | 1.1 | <0.05 | <0.005 | <1 | 0.031 |
| 23 | 20 | 1.4 | <0.05 | <0.005 | <1 | 0.017 |
| Average | 12.0 | 1.175 | NA | NA | NA | 0.017 |
| Maximum | 20 | 1.4 | <0.05 | <0.005 | <1 | 0.031 |
| Minimum | 8 | 1.0 | <0.05 | <0.005 | <1 | .008 |

| Discharge Water - Outfall Specific Parameters | | | | | | | | | | | | | | | | | | |
|---|----------------|-----|-----|-------|-----|--------|---|-----|-----|-----|-----|-----|----------------------------|-----|-----|------|-----|------|
| Date | FLOW (MGD) | | | | | | TEMPERATURE (°F) | | | | | | pH | | | | | |
| | Measure 1\week | | | | | | Measure 1\week | | | | | | Sample 1\week - grab | | | | | |
| | 001 | 002 | 003 | 004 | 005 | 006 | 001 | 002 | 003 | 004 | 005 | 006 | 001 | 002 | 003 | 004 | 005 | 006 |
| 6 | * | * | * | 4.000 | * | 22.321 | * | * | * | 68 | * | 63 | * | * | * | 7.66 | * | 7.42 |
| 11 | * | * | * | 2.186 | * | 18.166 | * | * | * | 63 | * | 61 | * | * | * | 8.28 | * | 7.12 |
| 19 | * | * | * | 0.940 | * | 18.180 | * | * | * | 65 | * | 64 | * | * | * | 7.87 | * | 7.86 |
| 23 | * | * | * | 2.281 | * | 21.750 | * | * | * | 63 | * | 67 | * | * | * | 7.49 | * | 7.48 |
| Permit Limit | None | | | | | | 110° F Maximum Apr-Oct 85° F Maximum Nov-Mar | | | | | | 6.0 Minimum 9.0 Maximum | | | | | |
| Average | NA | NA | NA | NA | NA | 20.104 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Maximum | * | * | * | 4.000 | * | 22.321 | * | * | * | 68 | * | 67 | * | * | * | 8.28 | * | 7.86 |
| Minimum | * | * | * | 0.940 | * | 18.166 | * | * | * | 63 | * | 61 | * | * | * | 7.49 | * | 7.12 |

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Outfall 801 - Combined Discharges

| Date | FLOW | | ALUMINUM | | ARSENIC | | BARIUM | |
|--------------|-----------------------|------------------------|-----------------------|--------------------|------------------------|------------------------|------------------------|----------------------|
| | Sample 1\week - grab | | Sample 1\week - grab | | Sample 1\month - grab | | Sample 1\week - grab | |
| | GPM | MGD | MG/L | POUNDS^ | MG/L | POUNDS | MG/L | POUNDS |
| 6 | 18,279 | 26.322 | 1.4 | 47 | <0.002 | 0 | 0.3 | 65.8 |
| 11 | 14,133 | 20.352 | 1.3 | 49 | NM | - | 0.2 | 33.9 |
| 19 | 13,278 | 19.120 | 1.1 | 22 | <0.002 | 0 | <0.1 | 0.8 |
| 23 | 16,688 | 24.031 | 1.1 | 0 | NM | - | 0.2 | 40.1 |
| Permit Limit | | | 3.5 Avg 5.2 Max | 432 Avg 650 Max | 0.07 Avg 0.11 Max | 17.56 Avg 26.50 Max | None | None |
| Average | 15,595 | 22.456 | 1.23 | 30 | NA | 0.00 | 0.23 | 35.2 |
| Maximum | 18,279 | 26.322 | 1.40 | 49 | <0.002 | 0.00 | 0.300 | 65.8 |
| Minimum | 13,278 | 19.120 | 1.10 | 0 | <0.002 | 0.00 | <0.1 | 1 |
| Date | CADMIUM | | CHROMIUM | | COPPER | | CYANIDE | |
| | Sample 1\month - grab | | Sample 1\week - grab | | Sample 1\month - grab | | Sample 1\week - grab | |
| | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS |
| 6 | <0.005 | 0 | <0.05 | 0 | <0.02 | 1.3 | <0.005 | 0 |
| 11 | NM | - | <0.05 | 0 | NM | - | <0.005 | 0 |
| 19 | NM | - | <0.05 | 0 | NM | - | <0.005 | 0.91 |
| 23 | NM | - | <0.05 | 0 | NM | - | <0.005 | 0 |
| Permit Limit | 0.20 Avg 0.30 Max | 49.50 Avg 74.45 Max | 0.16 Avg 0.24 Max | 34 Avg 59 Max | 0.15 Avg 0.23 Max | 37.60 Avg 56.39 Max | 0.12 Avg 0.18 Max | 23 Avg 45 Max |
| Average | NA | 0.00 | NA | 0.00 | NA | 1.30 | NA | 0.23 |
| Maximum | <0.005 | 0.00 | <0.05 | 0.00 | <0.02 | 1.30 | <0.005 | 0.91 |
| Minimum | <0.005 | 0.00 | <0.05 | 0.00 | <0.02 | 1.30 | <0.005 | 0.00 |
| Date | FLUORIDE | | LEAD | | MERCURY | | NICKEL | |
| | Sample 1\month - grab | | Sample 1\month - grab | | Sample 1\month - grab | | Sample 1\month - grab | |
| | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS |
| 6 | 0.171 | 37.4 | <0.1 | 0 | <0.0002 | 0 | <0.04 | 0 |
| 11 | NM | - | NM | - | NM | - | NM | - |
| 19 | NM | - | NM | - | NM | - | NM | - |
| 23 | NM | - | NM | - | NM | - | NM | - |
| Permit Limit | None | None | 0.53 Avg 0.80 Max | 132 Avg 198 Max | .0010 Avg .0016 Max | 0.26 Avg 0.40 Max | 13.50 Avg 20.20 Max | 3337 Avg 5004 Max |
| Average | 0.171 | 37.4 | NA | 0 | NA | 0 | NA | 0 |
| Maximum | 0.171 | 37.4 | <0.1 | 0 | <0.0002 | 0 | <0.04 | 0 |
| Minimum | 0.171 | 37.4 | <0.1 | 0 | <0.0002 | 0 | <0.04 | 0 |

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Outfall 801 - Combined Discharges

| Date | OIL & GREASE | | PCBs | | PHENOLS | | SELENIUM | |
|--------------|----------------------|------------------------|----------------------------|---------|------------------------|--------------------|-----------------------|--------------------|
| | Sample 1\week - grab | | Sample 1\week - grab | | Sample 1\month - grab | | Sample 1\month - grab | |
| | MG/L | POUNDS^ | PPB | POUNDS | MG/L | POUNDS | MG/L | POUNDS |
| 6 | 2.5 | 558 | 0.97 | 0.192 | 0.011 | 2.39 | <0.002 | 0 |
| 11 | 7.8 | 1320 | 0.1 | 0.009 | NM | - | NM | - |
| 19 | <1 | 39 | <0.2 | 0 | NM | - | NM | - |
| 23 | 1.8 | 362 | <0.2 | 0 | NM | - | NM | - |
| Permit Limit | None | 5,010 Avg 8,350 Max | .00003 mg/l or <0.5 PPB | None | 10.40 Avg 15.60 Max | 257 Avg 385 Max | 0.47 Avg 0.70 Max | 116 Avg 174 Max |
| Average | NA | 570 | NA | 0.05025 | 0.011 | 2.39 | NA | 0 |
| Maximum | 7.8 | 1320 | 0.97 | 0.192 | 0.011 | 2.39 | <0.002 | 0 |
| Minimum | <1 | 39 | <0.2 | 0 | 0.011 | 2.39 | <0.002 | 0 |

| Date | SILVER | | TETRACHLOROETHYLENE | | SUSPENDED SOLIDS | | ZINC | |
|--------------|----------------------|------------------------|-----------------------|----------|----------------------|-------------------------|----------------------|--------------------|
| | Sample 1\week - grab | | Sample 2\month - grab | | Sample 1\week - grab | | Sample 1\week - grab | |
| | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS^ | MG/L | POUNDS^ |
| 6 | <0.01 | 0.33 | NM | - | 26 | 3392 | 0.012 | 0.82 |
| 11 | <0.01 | 0 | <0.005 | 0.4 | 26 | 3095 | 0.059 | 7.89 |
| 19 | <0.01 | 0 | NM | - | 20 | 1740 | 0.054 | 3.73 |
| 23 | <0.01 | 0 | <0.005 | 0.36 | 10 | 0 | 0.02 | 0.72 |
| Permit Limit | 0.18 Avg 0.26 Max | 43.78 Avg 65.54 Max | None | 1.80 Max | None | 8,140 Avg 17,117 Max | 1.34 Avg 2.00 Max | 113 Avg 270 Max |
| Average | NA | 0.0825 | NA | 0.38 | 20.5 | 2056.75 | 0.03625 | 3.29 |
| Maximum | <0.01 | 0.33 | <0.005 | 0.4 | 26 | 3392 | 0.059 | 7.89 |
| Minimum | <0.01 | 0 | <0.005 | 0.36 | 10 | 0 | 0.012 | 0.72 |

SYMBOL

DESCRIPTION

- NM Indicates that a sample was not collected.
- NA Not Applicable; either average values are not appropriate because of less than values or an average value for that parameter is not meaningful.
- * Indicates that there was no flow in the outfall at the time samples were collected.
- < Less than the value (detection limit) reported.
- NS Not sampled due to flood.
- ^ The reported mass values are net addition numbers.

Hawkeye Aluminum Company (HALCO) Davenport Works NPDES Monthly Report and Signatory Page Permit No. 7167099 December, 1995

Report Prepared by: Patricia Jackson, Environmental Specialist, Remediation & Water

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Submitted by: Mary Scott Wall
Mary Scott Wall, Works Manager

| River Water Intake | | | | | | |
|--------------------|-------------------------------|------------------|------------------|-----------------|----------------------|--------------|
| Date | TOTAL SUSP. SOLIDS MG/L | ALUMINUM MG/L | CHROMIUM MG/L | CYANIDE MG/L | OIL & GREASE MG/L | ZINC MG/L |
| 4 | 12 | 1.4 | <0.05 | <0.005 | <1 | 0.014 |
| 10 | 14 | 2.0 | <0.05 | <0.005 | <1 | <.005 |
| 16 | 36 | 1.5 | <0.05 | <0.005 | 3 | <.005 |
| 22 | 11 | 1.7 | <0.05 | <0.005 | <1 | 0.008 |
| 28 | 16 | 2.8 | <0.05 | <0.005 | <1 | <.005 |
| Average | 17.8 | 1.880 | NA | NA | .600 | 0.004 |
| Maximum | 36 | 2.8 | <0.05 | <0.005 | 3.000 | 0.014 |
| Minimum | 11 | 1.4 | <0.05 | <0.005 | <1 | <.005 |

| Discharge Water - Outfall Specific Parameters | | | | | | | | | | | | | | | | | | |
|---|----------------|-----|-----|-------|-----|--------|---|-----|-----|-----|-----|-----|----------------------------|-----|-----|------|-----|------|
| Date | FLOW (MGD) | | | | | | TEMPERATURE (°F) | | | | | | pH | | | | | |
| | Measure 1\week | | | | | | Measure 1\week | | | | | | Sample 1\week - grab | | | | | |
| | 001 | 002 | 003 | 004 | 005 | 006 | 001 | 002 | 003 | 004 | 005 | 006 | 001 | 002 | 003 | 004 | 005 | 006 |
| 4 | * | * | * | * | * | 19.058 | * | * | * | * | * | 54 | * | * | * | * | * | 6.88 |
| 10 | * | * | * | * | * | 22.092 | * | * | * | * | * | 55 | * | * | * | * | * | 7.56 |
| 16 | * | * | * | 2.077 | * | 18.918 | * | * | * | 58 | * | 62 | * | * | * | 7.46 | * | 7.23 |
| 22 | * | * | * | * | * | 13.145 | * | * | * | * | * | 47 | * | * | * | * | * | 6.89 |
| 28 | * | * | * | * | * | 12.498 | * | * | * | * | * | 50 | * | * | * | * | * | 7.75 |
| Permit Limit | None | | | | | | 110° F Maximum Apr-Oct 85° F Maximum Nov-Mar | | | | | | 6.0 Minimum 9.0 Maximum | | | | | |
| Average | NA | NA | NA | NA | NA | 17.142 | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Maximum | * | * | * | 2.077 | * | 22.092 | * | * | * | 58 | * | 62 | * | * | * | 7.46 | * | 7.75 |
| Minimum | * | * | * | 2.077 | * | 12.498 | * | * | * | 58 | * | 47 | * | * | * | 7.46 | * | 6.88 |

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Outfall 801 - Combined Discharges

| Date | FLOW | | ALUMINUM | | ARSENIC | | BARIUM | |
|--------------|----------------------|--------|----------------------|--------------------|-----------------------|------------------------|----------------------|--------|
| | Sample 1\week - grab | | Sample 1\week - grab | | Sample 1\month - grab | | Sample 1\week - grab | |
| | GPM | MGD | MG/L | POUNDS^ | MG/L | POUNDS | MG/L | POUNDS |
| 4 | 13,234 | 19.058 | 2.1 | 111 | <0.002 | 0 | 0.2 | 32 |
| 10 | 15,341 | 22.092 | 1.9 | 0 | NM | - | 0.2 | 37 |
| 16 | 14,578 | 20.995 | 1.6 | 0 | NM | - | <0.1 | 0 |
| 22 | 9,128 | 13.145 | 2.4 | 77 | NM | - | 0.2 | 22 |
| 28 | 8,679 | 12.498 | 2.6 | 0 | NM | - | 0.200 | 21 |
| Permit Limit | | | 3.5 Avg 5.2 Max | 432 Avg 650 Max | 0.07 Avg 0.11 Max | 17.56 Avg 26.50 Max | None | None |
| Average | 12,192 | 17.558 | 2.12 | 38 | NA | 0.00 | NA | 22.4 |
| Maximum | 15,341 | 22.092 | 2.60 | 111 | <0.002 | 0.00 | 0.200 | 37.0 |
| Minimum | 8,679 | 12.498 | 1.60 | 0 | <0.002 | 0.00 | <0.1 | 0 |

| Date | CADMIUM | | CHROMIUM | | COPPER | | CYANIDE | |
|--------------|-----------------------|------------------------|----------------------|------------------|-----------------------|------------------------|----------------------|------------------|
| | Sample 1\month - grab | | Sample 1\week - grab | | Sample 1\month - grab | | Sample 1\week - grab | |
| | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS |
| 4 | <0.005 | 0 | <0.05 | 0 | 0.09 | 0.9 | <0.005 | 0 |
| 10 | NM | - | <0.05 | 0 | NM | - | <0.005 | 0 |
| 16 | NM | - | <0.05 | 0 | NM | - | <0.005 | 0 |
| 22 | NM | - | <0.05 | 5.2 | NM | - | <0.005 | 0 |
| 28 | NM | - | <0.05 | 0 | NM | - | <0.005 | 0 |
| Permit Limit | 0.20 Avg 0.30 Max | 49.50 Avg 74.45 Max | 0.16 Avg 0.24 Max | 34 Avg 59 Max | 0.15 Avg 0.23 Max | 37.60 Avg 56.39 Max | 0.12 Avg 0.18 Max | 23 Avg 45 Max |
| Average | NA | 0.00 | NA | 1.04 | 0.09 | 0.90 | NA | 0.00 |
| Maximum | <0.005 | 0.00 | <0.05 | 5.20 | 0.09 | 0.90 | <0.005 | 0.00 |
| Minimum | <0.005 | 0.00 | <0.05 | 0.00 | 0.09 | 0.90 | <0.005 | 0.00 |

| Date | FLUORIDE | | LEAD | | MERCURY | | NICKEL | |
|--------------|-----------------------|--------|-----------------------|--------------------|------------------------|----------------------|------------------------|----------------------|
| | Sample 1\month - grab | | Sample 1\month - grab | | Sample 1\month - grab | | Sample 1\month - grab | |
| | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS |
| 4 | 0.15 | 23.8 | <0.1 | 0 | <0.0002 | 0 | <0.04 | 0 |
| 10 | NM | - | NM | - | NM | - | NM | - |
| 16 | NM | - | NM | - | NM | - | NM | - |
| 22 | NM | - | NM | - | NM | - | NM | - |
| 28 | NM | - | NM | - | NM | - | NM | - |
| Permit Limit | None | None | 0.53 Avg 0.80 Max | 132 Avg 198 Max | .0010 Avg .0016 Max | 0.26 Avg 0.40 Max | 13.50 Avg 20.20 Max | 3337 Avg 5004 Max |
| Average | 0.150 | 23.8 | NA | 0 | NA | 0 | NA | 0 |
| Maximum | 0.150 | 23.8 | <0.1 | 0 | <0.0002 | 0 | <0.04 | 0 |
| Minimum | 0.150 | 23.8 | <0.1 | 0 | <0.0002 | 0 | <0.04 | 0 |

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Outfall 801 - Combined Discharges

| Date | OIL & GREASE | | PCBs | | PHENOLS | | SELENIUM | |
|--------------|----------------------|------------------------|----------------------------|--------|------------------------|--------------------|-----------------------|--------------------|
| | Sample 1\week - grab | | Sample 1\week - grab | | Sample 1\month - grab | | Sample 1\month - grab | |
| | MG/L | POUNDS^ | PPB | POUNDS | MG/L | POUNDS | MG/L | POUNDS |
| 4 | <1 | 0 | 0.83 | 0.064 | <0.005 | 0 | <0.002 | 0 |
| 10 | 1 | 184 | <0.2 | 0 | NM | - | NM | - |
| 16 | 3 | 490 | <0.2 | 0.003 | NM | - | NM | - |
| 22 | <1 | 0 | <0.2 | 0 | NM | - | NM | - |
| 28 | 3.0 | 312 | <0.2 | 0 | NM | - | NM | - |
| Permit Limit | None | 5,010 Avg 8,350 Max | .00003 mg/l or <0.5 PPB | None | 10.40 Avg 15.60 Max | 257 Avg 385 Max | 0.47 Avg 0.70 Max | 116 Avg 174 Max |
| Average | NA | 197 | NA | 0.0134 | NA | 0 | NA | 0 |
| Maximum | 3.0 | 490 | 0.83 | 0.064 | <0.005 | 0 | <0.002 | 0 |
| Minimum | <1 | 0 | <0.2 | 0 | <0.005 | 0 | <0.002 | 0 |

| Date | SILVER | | TETRACHLOROETHYLENE | | SUSPENDED SOLIDS | | ZINC | |
|--------------|----------------------|------------------------|-----------------------|----------|----------------------|-------------------------|----------------------|--------------------|
| | Sample 1\week - grab | | Sample 2\month - grab | | Sample 1\week - grab | | Sample 1\week - grab | |
| | MG/L | POUNDS | MG/L | POUNDS | MG/L | POUNDS^ | MG/L | POUNDS^ |
| 4 | <0.01 | 0 | NM | - | 14 | 318 | 0.0076 | 9.85 |
| 10 | <0.01 | 0 | 0.043 | 2.16 | 14 | 0 | 0.01 | 1.84 |
| 16 | <0.01 | 0 | NM | - | 37 | 52 | >0.005 | 0 |
| 22 | <0.01 | 0 | 0.021 | 1.73 | 65 | 19,342 | 0.018 | 1.1 |
| 28 | <0.01 | 0 | NM | - | 19 | 312 | 0.02 | 2.08 |
| Permit Limit | 0.18 Avg 0.26 Max | 43.78 Avg 65.54 Max | None | 1.80 Max | None | 8,140 Avg 17,117 Max | 1.34 Avg 2.00 Max | 113 Avg 270 Max |
| Average | NA | 0 | 0.032 | 1.945 | 29.8 | 4004.8 | 0.0139 | 2.974 |
| Maximum | <0.01 | 0 | 0.043 | 2.16 | 65 | 19,342 | 0.02 | 9.85 |
| Minimum | <0.01 | 0 | 0.021 | 1.73 | 14 | 0 | >0.005 | 0 |

SYMBOL

DESCRIPTION

- NM Indicates that a sample was not collected.
- NA Not Applicable; either average values are not appropriate because of less than values or an average value for that parameter is not meaningful.
- * Indicates that there was no flow in the outfall at the time samples were collected.
- < Less than the value (detection limit) reported.
- NS Not sampled due to flood.
- ^ The reported mass values are net addition numbers.