

Hawkeye Aluminum Company (HALCO) Davenport Works NPDES Monthly Report and Signatory Page Permit No. 7167099 January, 1996

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	52	1.2	<0.05	<0.005	<1	0.037
13	15	1.9	<0.05	.006	<1	0.033
19	18	1.7	<0.05	.007	4	0.028
24	16	2.2	<0.05	<0.005	<1	0.027
Average	25.3	1.8	NA	NA	NA	0.031
Maximum	52	2.2	<0.05	.007	4.000	0.037
Minimum	15	1.2	<0.05	<0.005	<1	0.027

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
7	*	*	*	5.255	*	15.979	*	*	*	56	54	47	*	*	*	7.48	7.00	7.07
13	*	*	*	2.535	*	7.473	*	*	*	56	*	49	*	*	*	7.39	*	7.31
19	*	*	*	1.659	*	8.936	*	*	*	57	*	60	*	*	*	7.46	*	7.15
24	*	*	*	0.668	*	15.931	*	*	*	58	*	51	*	*	*	7.32	*	6.82
Permit Limit	None						110° F Maximum Apr-Oct 85° F Maximum Nov-Mar						6.0 Minimum 9.0 Maximum					
Average	NA	NA	NA	NA	NA	12.080	NA	NA	NA	NA	54	NA	NA	NA	NA	NA	NA	NA
Maximum	*	*	*	5.255	*	15.979	*	*	*	58	54	60	*	*	*	7.48	7.00	7.31
Minimum	*	*	*	0.668	*	7.473	*	*	*	56	54	47	*	*	*	7.32	7.00	6.82

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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	MGL	POUNDS^	MGL	POUNDS	MGL	POUNDS
7	15,047	21.668	1.56	80	<0.002	0	0.45	81
13	6,949	10.008	1.96	12	NM	-	NM	-
19	7,357	10.595	2.45	67	NM	-	NM	-
24	11,457	16.499	2.58	53	NM	-	NM	-
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	10,203	14.693	2.14	53	NA	0.00	NA	81
Maximum	15,047	21.668	2.58	80	<0.002	0.00	0.450	81
Minimum	6,949	10.008	1.56	12	<0.002	0.00	0.450	81
Date	CADMIUM		CHROMIUM		COPPER		CYANIDE	
	Sample 1\month - grab		Sample 1\week - grab		Sample 1\month - grab		Sample 1\week - grab	
	MGL	POUNDS	MGL	POUNDS	MGL	POUNDS	MGL	POUNDS
7	<0.005	0	<0.05	0	0.036	6.5	<0.005	0
13	NM	-	<0.05	0	NM	-	0.005	0.4
19	NM	-	<0.05	0	NM	-	0.006	0.5
24	NM	-	<0.05	0	NM	-	0.007	0.9
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	0.036	6.50	NA	0.45
Maximum	<0.005	0.00	<0.05	0.00	0.036	6.50	0.007	0.90
Minimum	<0.005	0.00	<0.05	0.00	0.036	6.50	<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	
	MGL	POUNDS	MGL	POUNDS	MGL	POUNDS	MGL	POUNDS
7	0.15	28.5	<0.1	0	<0.0002	0	<0.04	0
13	NM	-	NM	-	NM	-	NM	-
19	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	0.15	28.5	NA	0	NA	0	NA	0
Maximum	0.15	28.5	<0.1	0	<0.0002	0	<0.04	0
Minimum	0.15	28.5	<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	1.46	264	<0.5	0	0.074	13.36	<0.002	0
13	1.50	125	<0.5	0	NM	-	NM	-
19	4.47	41	<0.5	0.017	NM	-	NM	-
24	<1	17	<0.5	0.005	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	1.85	112	NA	0.0055	0.074	13.36	NA	0
Maximum	4.47	264	<0.5	0.017	0.074	13.36	<0.002	0
Minimum	<1	17	<0.5	0	0.074	13.36	<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	0	0.02	3.59	16.1	0	0.012	0.47
13	<0.01	0	NA	-	18.5	294	0.04	0.58
19	<0.01	0	0.012	1.1	20.6	226	0.031	0.76
24	<0.01	0	NM	-	18.3	320	0.035	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	0.016	2.345	18.375	210	0.0295	0.7425
Maximum	<0.01	0	0.02	3.59	20.6	320	0.04	1.16
Minimum	<0.01	0	0.012	1.1	16.1	0	0.012	0.47

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.

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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	7	1.4	<0.05	<0.005	<1	0.016
12	12	1.6	<0.05	.006	1	0.039
18	13	1.6	<0.05	<0.005	<1	0.022
24	12	1.8	<0.05	.009	<1	0.016
Average	11.0	1.6	NA	NA	NA	0.023
Maximum	13	1.8	<0.05	.009	1.000	0.039
Minimum	7	1.4	<0.05	<0.005	<1	0.016

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	*	*	*	7.498	*	23.470	*	*	*	65	54	65	*	*	*	7.07	*	6.68
12	*	*	*	2.439	*	22.433	*	*	*	60	*	50	*	*	*	6.88	*	6.78
18	*	*	*	0.000	*	14.736	*	*	*	*	*	57	*	*	*	*	*	6.67
24	*	*	*	0.000	*	9.437	*	*	*	*	*	62	*	*	*	*	*	7.05
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	17.519	NA	NA	NA	NA	54	NA	NA	NA	NA	NA	NA	NA
Maximum	*	*	*	7.498	*	23.470	*	*	*	65	54	65	*	*	*	7.07	*	7.05
Minimum	*	*	*	0.000	*	9.437	*	*	*	60	54	50	*	*	*	6.88	*	6.67

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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	21,504	30.968	1.77	97	<0.002	0	1.43	368
12	17,272	24.872	1.63	6	NM	-	0.51	105
18	10,233	14.736	1.4	0	NM	-	0.5	61
24	6,553	9.437	1.8	0	NM	-	1.8	47
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	13,891	20.003	1.65	26	NA	0.00	1.060	145
Maximum	21,504	30.968	1.80	97	<0.002	0.00	1.800	368
Minimum	6,553	9.437	1.40	0	<0.002	0.00	0.500	47
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	0.059	15.4	0.025	6.4	0.007	1.8
12	NM	-	<0.05	0	NM	-	0.011	2.2
18	NM	-	<0.05	0	NM	-	0.01	1.2
24	NM	-	<0.05	0	NM	-	0.005	0.4
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	3.85	0.025	6.40	0.008	1.40
Maximum	<0.005	0.00	0.059	15.40	0.025	6.40	0.011	2.20
Minimum	<0.005	0.00	<0.05	0.00	0.025	6.40	0.005	0.40
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	0.14	36.6	0.399	103	<0.0002	0	<0.04	0
12	NM	-	NM	-	NM	-	NM	-
18	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	0.142	36.6	0.399	103	NA	0	NA	0
Maximum	0.142	36.6	0.399	103	<0.0002	0	<0.04	0
Minimum	0.142	36.6	0.399	103	<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
6	6.50	1690	<0.5	0.45	0.032	8.18	<0.002	0
12	<1	142	<0.5	0	NM	-	NM	-
18	7.00	860	<0.5	0	NM	-	NM	-
24	1.00	79	<0.5	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	693	NA	0.1125	0.032	8.18	NA	0
Maximum	7.00	1690	<0.5	0.45	0.032	8.18	<0.002	0
Minimum	<1	79	<0.5	0	0.032	8.18	<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	0.009	1.79	23.5	4209	0.009	0
12	<0.01	0	NM	-	12.3	61	0.05	2.62
18	<0.01	0	0	0	15	246	0.015	0
24	<0.01	0	NM	-	13	79	0.011	0
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	0.0045	0.895	15.95	1148.75	0.02125	0.655
Maximum	<0.01	0	0.009	1.79	23.5	4209	0.05	2.62
Minimum	<0.01	0	0	0	12.3	61	0.009	0.00

SYMBOL

DESCRIPTION

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

River Water Intake						
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6	7	1.4	<0.05	<0.005	<1	0.016
12	12	1.6	<0.05	.006	1	0.039
18	13	1.6	<0.05	<0.005	<1	0.022
24	12	1.8	<0.05	.009	<1	0.016
Average	11.0	1.6	NA	NA	NA	0.023
Maximum	13	1.8	<0.05	.009	1.000	0.039
Minimum	7	1.4	<0.05	<0.005	<1	0.016

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	*	*	*	7.498	*	23.470	*	*	*	65	54	65	*	*	*	7.07	*	6.68
12	*	*	*	2.439	*	22.433	*	*	*	60	*	50	*	*	*	6.88	*	6.78
18	*	*	*	0.000	*	14.736	*	*	*	*	*	57	*	*	*	*	*	6.67
24	*	*	*	0.000	*	9.437	*	*	*	*	*	62	*	*	*	*	*	7.05
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	17.519	NA	NA	NA	NA	54	NA	NA	NA	NA	NA	NA	NA
Maximum	*	*	*	7.498	*	23.470	*	*	*	65	54	65	*	*	*	7.07	*	7.05
Minimum	*	*	*	0.000	*	9.437	*	*	*	60	54	50	*	*	*	6.88	*	6.67

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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	21,504	30.968	1.77	97	<0.002	0	1.43	368
12	17,272	24.872	1.63	6	NM	-	0.51	105
18	10,233	14.736	1.4	0	NM	-	0.5	61
24	6,553	9.437	1.8	0	NM	-	1.8	47
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	13,891	20.003	1.65	26	NA	0.00	1.060	145
Maximum	21,504	30.968	1.80	97	<0.002	0.00	1.800	368
Minimum	6,553	9.437	1.40	0	<0.002	0.00	0.500	47
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	0.059	15.4	0.025	6.4	0.007	1.8
12	NM	-	<0.05	0	NM	-	0.011	2.2
18	NM	-	<0.05	0	NM	-	0.01	1.2
24	NM	-	<0.05	0	NM	-	0.005	0.4
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	3.85	0.025	6.40	0.008	1.40
Maximum	<0.005	0.00	0.059	15.40	0.025	6.40	0.011	2.20
Minimum	<0.005	0.00	<0.05	0.00	0.025	6.40	0.005	0.40
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	0.14	36.6	0.399	103	<0.0002	0	<0.04	0
12	NM	-	NM	-	NM	-	NM	-
18	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	0.142	36.6	0.399	103	NA	0	NA	0
Maximum	0.142	36.6	0.399	103	<0.0002	0	<0.04	0
Minimum	0.142	36.6	0.399	103	<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	6.50	1690	<0.5	0.45	8.1	19	<0.002	0
12	<1	142	<0.5	0	NM	-	NM	-
18	7.00	860	<0.5	0	NM	-	NM	-
24	1.00	79	<0.5	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	693	NA	0.1125	8.1	19	NA	0
Maximum	7.00	1690	<0.5	0.45	8.1	19	<0.002	0
Minimum	<1	79	<0.5	0	8.1	19	<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	0.009	1.32	23.5	4209	0.009	0
12	<0.01	0	NM	-	12.3	61	8.35	435
18	<0.01	0	0	0	15	246	0.015	0
24	<0.01	0	NM	-	13	79	0.011	0
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	0.0045	0.66	15.95	1148.75	2.09625	108.75
Maximum	<0.01	0	0.009	1.32	23.5	4209	8.35	435
Minimum	<0.01	0	0	0	12.3	61	0.009	0.00

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 April, 1996

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
3	12	1.7	<0.05	<0.005	<1	0.028
9	12	1.3	<0.05	<0.005	<1	0.17
15	9	1.0	<0.05	<0.005	4	0.058
21	16	1.4	<0.05	<0.005	<1	0.007
27	8	1.1	<0.05	<0.005	<1	0.017
Average	11.4	1.3	NA	NA	NA	0.056
Maximum	16	1.7	<0.05	<0.005	4.000	0.170
Minimum	8	1.0	<0.05	<0.005	<1	0.007

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
3	*	*	*	7.626	*	14.727	*	*	*	57	*	62	*	*	*	6.75	*	7.16
9	*	*	*	1.958	*	17.326	*	*	*	65	*	60	*	*	*	7.57	*	7.32
15	*	*	*	3.090	*	15.415	*	*	*	66	*	64	*	*	*	7.55	*	7.02
21	*	*	*	2.167	*	17.909	*	*	*	64	*	61	*	*	*	6.88	*	6.80
27	*	*	*	0	*	8.354	*	*	*	*	*	66				*		6.57
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	14.746	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Maximum	*	*	*	7.626	*	17.909	*	*	*	66	*	66	*	*	*	7.57	*	7.32
Minimum	*	*	*	0.000	*	8.354	*	*	*	57	*	60	*	*	*	6.75	*	6.57

Hawkeye Aluminum Company (HALCO)

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Permit No. 7167099

April, 1996

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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
3	15,522	22.353	2.5	152	<0.002	0	0.204	38
9	13,391	19.284	1.9	95	NM	-	0.193	31
15	12,850	18.505	1.1	15	NM	-	0.117	18
21	13,941	20.076	1.2	2	NM	-	0.532	89
27	5,801	8.354	1.3	14			0.300	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	12,301	17.714	1.60	56	NA	0.00	0.269	39
Maximum	15,522	22.353	2.50	152	<0.002	0.00	0.532	89
Minimum	5,801	8.354	1.10	2	<0.002	0.00	0.117	18
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
3	<0.005	0	<0.05	0	<0.02	2.5	<0.005	0
9	NM	-	<0.05	0	NM	-	<0.005	0
15	NM	-	<0.05	0	NM	-	<0.005	0
21	NM	-	<0.05	0	NM	-	<0.005	0
27	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	2.50	NA	0.00
Maximum	<0.005	0.00	<0.05	0.00	<0.02	2.50	<0.005	0.00
Minimum	<0.005	0.00	<0.05	0.00	<0.02	2.50	<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
3	0.21	38.5	<0.1	0	<0.0002	0	<0.04	0
9	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	0.21	38.5	NA	0	NA	0	NA	0
Maximum	0.21	38.5	<0.1	0	<0.0002	0	<0.04	0
Minimum	0.21	38.5	<0.1	0	<0.0002	0	<0.04	0

Hawkeye Aluminum Company (HALCO)

Davenport Works NPDES Monthly Report

Permit No. 7167099

April, 1996

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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
3	6	1173	<0.5	0	0.019	3.45	<0.002	0
9	1.9	305	<0.5	0.462	NM	-	NM	-
15	5.0	154	<0.5	0	NM	-	NM	-
21	1.8	298	<0.5	0	NM	-	NM	-
27	3.0	209	<0.5	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	3.60	428	NA	0.0924	0.019	3.45	NA	0
Maximum	6.30	1173	<0.5	0.462	0.019	3.45	<0.002	0
Minimum	1.80	154	<0.5	0	0.019	3.45	<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^
3	0.05	8.6	0.045	1.51	15.8	699	0.027	0.7
9	<0.01	0	NM	-	28.7	2681	0.041	0
15	<0.01	0	<0.005	0.72	13	618	0.03	0
21	<0.01	0	NM	-	15.4	54	0.014	1.22
27	<0.01	0	<0.005	0	12	278	0.019	0.1
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	1.72	NA	0.743333333	16.98	866	0.0262	0.404
Maximum	0.05	8.6	0.045	1.51	28.7	2681	0.041	1.22
Minimum	<0.01	0	<0.005	0	12	54	0.014	0.00

SYMBOL

DESCRIPTION

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- NA Not Applicable; either average values are not appropriate because of less than values or an average value for that parameter is not meaningful.
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- < 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 May, 1996

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	20	1.6	<0.05	<0.005	<1	0.015
12	7	1.0	<0.05	<0.005	<1	0.03
17	12	0.8	<0.05	<0.005	<1	<.005
23	8	0.9	<0.05	<0.005	<1	<.005
Average	11.8	1.075	NA	NA	NA	0.023
Maximum	20	1.6	<0.05	<0.005	<1	0.030
Minimum	7	0.8	<0.05	<0.005	<1	.015

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
4	*	*	*	3.747	*	14.869	*	*	*	74	*	77	*	*	*	7.08	*	6.98
12	*	*	*	*	*	5.554	*	*	*	*	*	77	*	*	*	*	*	7.16
17	*	*	*	3.884	*	26.640	*	*	*	80	*	87	*	*	*	7.50	*	7.45
23	*	*	*	4.435	*	17.091	*	*	*	68	*	78	*	*	*	7.10	*	7.03
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	16.039	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Maximum	*	*	*	4.435	*	26.640	*	*	*	80	*	87	*	*	*	7.50	*	7.45
Minimum	*	*	*	3.747	*	5.554	*	*	*	68	*	77	*	*	*	7.08	*	6.98

Hawkeye Aluminum Company (HALCO)

Davenport Works NPDES Monthly Report

Permit No. 7167099

May, 1996

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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	12,928	18.616	1.4	37	<0.002	0	<0.1	0
12	3,857	5.554	0.7	0	NM	-	<0.1	0
17	21,197	30.524	1.8	245	NM	-	0.2	44.4
23	14,949	21.527	0.7	0	NM	-	<0.1	0
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	13,233	19.055	1.15	71	NA	0.00	NA	11.1
Maximum	21,197	30.524	1.80	245	<0.002	0.00	0.200	44.4
Minimum	3,857	5.554	0.70	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	<0.02	0.9	<0.005	0.34
12	NM	-	<0.05	0	NM	-	<0.005	0
17	NM	-	<0.05	0	NM	-	<0.005	0
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	0.90	NA	0.09
Maximum	<0.005	0.00	<0.05	0.00	<0.02	0.90	<0.005	0.34
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
4	0.19	29.2	0.1	15.5	<0.0002	0	<0.04	0
12	NM	-	NM	-	NM	-	NM	-
17	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	0.188	29.2	0.1	15.5	NA	0	NA	0
Maximum	0.188	29.2	0.1	15.5	<0.0002	0	<0.04	0
Minimum	0.188	29.2	0.1	15.5	<0.0002	0	<0.04	0

Hawkeye Aluminum Company (HALCO)

Davenport Works NPDES Monthly Report

Permit No. 7167099

May, 1996

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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	0.005	0.28	<0.002	0
12	<1	0	<0.2	0	NM	-	NM	-
17	<1	97	<0.2	0	NM	-	NM	-
23	2.2	396	<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	123	NA	0	NA	0.28	NA	0
Maximum	2.2	396	0.83	0	0.005	0.28	<0.002	0
Minimum	<1	0	<0.2	0	0.005	0.28	<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	-	16	468	0.015	14.3
12	<0.01	0	0.005	0.23	8	46	0.019	0
17	<0.01	0	NM	-	14	416	2.87	401
23	<0.01	1.42	0.01	1.72	8	74	0.134	46.7
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	0.0075	0.975	11.5	251	0.7595	115.5
Maximum	<0.01	1.42	0.01	1.72	16	468	2.87	401
Minimum	<0.01	0	0.005	0.23	8	46	0.015	0

SYMBOL

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Hawkeye Aluminum Company (HALCO) Davenport Works NPDES Monthly Report and Signatory Page Permit No. 7167099 June, 1996

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

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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

Hawkeye Aluminum Company (HALCO)
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June, 1996

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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	-	0.17	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	0.10	13.42	NA	1.80	NA	0.65
Maximum	<0.005	0.00	0.17	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	3.01	266
10	<0.01	0	0.009	3.13	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	2.28	16.908	2810	1.5085	53.66
Maximum	<0.01	0.01	0.009	3.13	55.06	13,503	3.01	266
Minimum	<0.01	0	0.005	1.43	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.