Dakota Environmental of Wisconsin

Oconomowoc Electroplating GWTF ♦ P.O. Box 352 ♦ Ashippun, WI 53003

Phone 414-474-3024 ♦ Fax 414-474-4319

April 15, 1997

Mr. Paul Kozol, P.E.
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, WI 53711

Re: Monthly Monitoring Report for the Oconomowoc Groundwater Treatment Facility

Dear Mr. Kozol:

Attached is the Monthly Monitoring Report for March, 1997 for the above referenced project. Questions regarding these reports should be directed to Dean Groleau at the treatment plant. The treatment plant phone number is (414) 474-3024.

Thank you for your continued cooperation and assistance with this project.

Sincerely,

RE Field

Roger Field, Project Manager
Dakota Environmental of Wisconsin, Inc.

cc: Randy Sitton, USACE
Tom Williams, USEPA
Kurt Unnerstall, Sverdrup Environmental, Inc.
Scot Wergin, Warrington Builders, Inc.
Dean Groleau, Plant Superintendent, Dakota Env., Inc.

MAR97 monthly rpt.wps

MONTHLY MONITORING REPORT
FOR THE
OCONOMOWOC ELECTROPLATING
GROUNDWATER TREATMENT FACILITY

ASHIPPUN, WISCONSIN

Prepared for:

U.S. ARMY CORPS OF ENGINEERS
ST. PAUL DISTRICT
HASTINGS, MINNESOTA
CONTRACT DACW45-95-C-0064

Prepared by:

Dakota Environmental of Wisconsin, Inc.
S15 W22600 Arcadian Avenue
Waukesha, Wisconsin 53186

April 15, 1997

1.0 Introduction

This report summarizes the monthly effluent monitoring results for the Oconomowoc Electroplating Groundwater Treatment Plant (OEGTP) for March, 1997. The OEGTP is located at the site of the former Oconomowoc Electroplating Company, in Ashippun, WI.

Laboratory results of effluent sampling can be found in the Discharge Monitoring Report Form, sent under separate cover. The effluent sampling was conducted by Dean Groleau and Rich Watson, of Dakota Environmental, Inc. Laboratory analysis was provided by Specialized Assays Environmental, 2960 Foster Creighton Drive, Nashville, Tennessee 37204. All sampling and analyses were conducted in accordance with the Oconomowoc Electroplating Groundwater Treatment System's Chemical Data Acquisition Plan (CDAP). The parameters tested for, frequency of testing, sample type, and limits are set forth in the Final Discharge Limits, Table 1 of the Oconomowoc Electroplating Superfund Site Limits and Requirements for Discharge of Treated Groundwater, issued by the Wisconsin Department of Natural Resources (WDNR) on September 24, 1996. This report is submitted in accordance with the reporting requirements of the WDNR permit.

1.1 Site Background Review

The OEGTP is located at 2572 Oak Street in Ashippun, Wisconsin, in the NW 1/4 of the SE 1/4 of Section 30, Township 30 North, Range 17 East. The site consists of approximately 10 acres, which includes approximately 3.5 acres of the former electroplating facility. The site is bounded by Oak Street (Highway 'O') and Eva Street to the North, and Davey Creek and the Town of Ashippun's garage facilities to the South. The property directly across Oak Street is occupied by Thermogas, Inc. A residential area is located across Eva Street, and a wetlands surrounds Davey Creek.

The contact person for the first year of operation is Randy Sitton of the U.S. Army Corps of Engineers (USACE). Mr. Sitton's phone number is (414) 474-4438, Fax (414) 474-7786. Dakota Environmental, Inc. supplies the treatment plant operators for Sverdrup Environmental, Inc., who was contracted by the USACE to operate and maintain the plant for the first year. The contact for Dakota is Roger Field, who can be reached at (414) 548-8884, Fax (414) 548-0881.

The phone number for the treatment plant is (414) 474-3024, Fax (414) 474-4319. The contact for Sverdrup is Kurt Unnerstall, who can be reached at (314) 770-4705, Fax (314) 770-5108.

1.2 Project Objectives

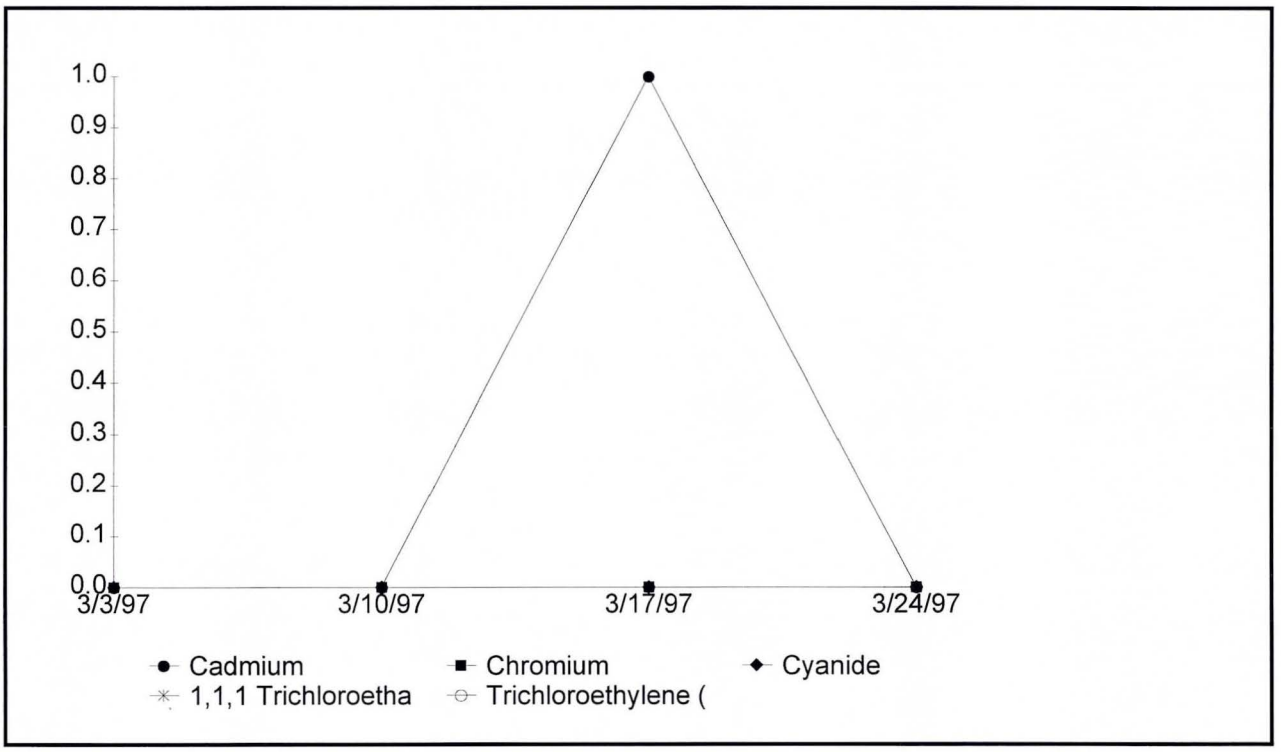
The objective of this project is to prevent the spreading of any plume of contamination that may exist at the site. Contaminated groundwater is pumped from five extraction wells, treated for cyanide, metals, suspended solids, and volatile organic compounds (VOC's). The treated water is then transferred to a groundwater influent gallery, located south of Elm Street, near Davey Creek.

1.3 Effluent Monitoring

Weekly monitoring was conducted on March 3, 10, 17, and 24. The weekly samples were tested by Specialized Assays, Inc. The results of the effluent monitoring tests for the samples taken on March 3, 10, and 24 were within the limits of Table 1 of the Oconomowoc Electroplating Superfund Site Limits and Requirements for Discharge of Treated Groundwater. The results of the effluent monitoring tests for the samples taken on March 17 showed Total Cadmium exceeded the limits of the WDNR effluent discharge permit. The possible cause of the exceedence is discussed in Section 3.

1.4 Monitoring Results

Results from weekly effluent monitoring can be found in the Discharge Monitoring Report Form, sent under a separate cover. Chart 1 shows the results of effluent monitoring for five important indicator parameters listed in the Monitoring Requirements of the Oconomowoc Electroplating Superfund Site Substantive WPDES Permit Requirements Summary (9/96). Results of testing on the March 17 samples showed Total Cadmium at 1.0ug/l, which exceeded the effluent limits established in Table 1 of the Oconomowoc Electroplating Superfund Site Limits and Requirements for Discharge of Treated Groundwater. The discharge limit for Total Cadmium is 0.5ug/l. See Section 2.1 for further details concerning plant shut down.



2.1 Plant Shut Down

The treatment plant was shut down five times for a total of 65.5 hours in March, 1997. Every shut down was due to scheduled and unscheduled maintenance. There were no emergency shut downs, and no shut downs due to contaminants exceeding permit limits. Although the limits were exceeded for Total Cadmium, Paul Kozol of the Wisconsin Department of Natural Resources (WDNR) agreed to allow the plant to continue running. See Section 3.0 for further details. Table 1 shows the summary of the plant down time for the month of March, 1997.

Table 1 - Plant Down Time Summary

Date(s)	Number Hours Shut Down	Reason
3/7	1	FT311 Low pH
3/12	6	CRT201/211, RMT301, C400, & Piping Sludge Removal
3/13	2	TF600 Backwashed
3/19-3/21	53	TF600 Lost Sand, Cleaned Filtrate Nozzles, & Acid Washed
3/26	3.5	CRT201/211, RMT301, C400, & FT311 Sludge Removal
TOTAL	**65.5**	

2.1.1 Shut Down Due to Tertiary Filtration Unit Problems

Problems with the Tertiary Filtration unit (TF600) led to a shut down of the treatment plant two times for a total of 55 hours during March, 1997. On one occasion, the plant was shut down for two hours to perform a backwash on the TF600, using plant effluent (March 13). The other shut down (March 19-21) was to reattach the broken media discharge hose and perform an acid wash on the TF600, using a diluted Muriatic Acid to help remove settled solids from the media.

Since the plant restart on March 21, the operators have been performing air backwashes on the TF600 whenever clogging occurred in the media. These backwashes do not require plant shutdown and take about one to two minutes to perform. The backwashes using plant effluent were performed when TF600 clogging occurred every two hours. After a plant effluent backwash, the time between air backwashes usually increases to about 8 hours.

On March 19 and 20, confined space entries were conducted on the TF600 to clean and reattach the filtrate nozzles. About 3/4 of the media was discharged into the sump trench due to the broken media discharge hose, which plugged up the filtrate nozzles. Confined space entry permits were filled out, and one operator entered the tank to remove the filtrate nozzles. The nozzles were soaked overnight in a dilute Muriatic Acid solution. After the discharge hose was reconnected, the nozzles were reinstalled, and all the sand was transferred back into the TF600. A dilute Muriatic Acid solution was added, the TF600 was filled with effluent, and left percolating with air overnight. The next day, an extended backwash was performed and the TF600 was put back into service. Since the filtrate nozzles were cleaned, the TF600 has required less air backwashing, but the maximum time between manual backwashing is still less than one per day.

2.1.2 Shut Down Due to Cyanide/Metal Package

On March 7, the treatment system was shut down for one hour because of low pH in the Flocculation Tank (FT311). Low pH leads to loss of flocculent, so the system was shut down until the pH could be restored. A temporary solution was used to raise the pH in the tanks prior to the FT311. The reduced pH in the FT311 is a result of the heating unit in the Sodium Hydroxide Room kicking out and lowering the room temperature, which caused the 50% caustic solution to solidify and reduced the pumping rate to the Rapid Mix Tank (RMT301).

Raising the pH before the FT311 may have caused sludge to harden in the tanks prior to the FT311. Sludge build up in the two tanks prior to the FT311 led to two plant shut downs for a total of 9.5 hours. On March 12 and 26, hardened sludge was removed from the Chlorination Reaction Tanks (CRT201/211), Rapid Mix Tank (RMT301), Clarifier (C400), and Flocculation Tank (FT311) without entering the confined spaces, using a pressure washer. The build up in the piping from the EQT100 to CRT201 was reduced by applying a dilute Muriatic Acid solution and allowing it to set for 2-3 hours before it was flushed out.

3.0 Exceeded Limits Of Total Cadmium

On March 17, the results of the effluent sampling showed that Total Cadmium exceeded the limit established in Table 1 of the Oconomowoc Electroplating Superfund Site Limits and Requirements for Discharge of Treated Groundwater. After discussions with Paul Kozol, WDNR, the plant was allowed to run at a reduced flow until the following week's sampling results, which indicated that the TF600 problem may have caused the Total Cadmium exceedence in the effluent.

The possible cause of the TF600 problem was a broken media discharge hose in the TF600 that was discovered on March 19. Most of the media discharged through the overflow tube after the media hose broke. There has been no Total Cadmium detected in the effluent since the media discharge hose was fixed and the media readded and cleaned.

4.0 Summary

Groundwater treatment plant effluent monitoring was conducted on March 3, 10, 17, and 24 of 1997. The laboratory results of these samples show that all contaminants (except for the March 17 Total Cadmium) listed in the Requirements of the Oconomowoc Electroplating Superfund Site Substantive WPDES Permit Requirements Summary (9/96) comply with the permit. The March 17 exceedence led to a plant slow-down to 23 GPM for one week.

During the month of March, 1997, the plant was shut down five times for a total of 65.5 hours. Every shutdown was due to scheduled and unscheduled equipment maintenance and repair. All equipment operation and maintenance related issues are detailed in a separate report, entitled

"*Monthly Operation and Maintenance Report for the Oconomowoc Electroplating Groundwater Treatment Facility*". That report was submitted to Sverdrup Environmental on April 15, 1997.

OCONOMOWOC GROUNDWATER TREATMENT PLANT ASHIPPUN, WI

DAKOTA ENVIRONMENTAL
2572 Oak Street/P.O. Box 352
Ashippun, WI 53003

JOBSITE FAX: 414/474-4319

JOBSITE PHONE: 414/474-3024

FAX TRANSMITTAL

TO: WDNR

ATTN: PAUL KOZOL

FAX NO.: (608)275-3338

FROM: DEAN GROLEAU - DAKOTA ENV.

DATE: 1APR97 TIME: 1020 PAGES: 11
(Including this Transmittal Sheet)

REMARKS:

LAST MONTH'S MONITORING REPORT.

PERMIT NUMBER 0049531 MONTH MARCH 1997 FACILITY NAME: OCONOMOWOC ELECTROPLATING SUPERFUN PAGE 1

SAMPLE PT. NUMBER / PARAMETER NUMBER		001(EFFL) 00244		001(EFFL) 00340		001(EFFL) 00134		001(EFFL) 00261		001(EFFL) 00262		001(EFFL) 00133		001(EFFL) 00630		001(EFFL) 00610		
REMARKS	Date	*	1	*	2	*	3	*	4	*	5	*	6	*	7	*	8	Date
	1		.02						7.5		8.5							1
	2		.01						7.0		7.7							2
	3		.01		11.5		<L.O.D.		7.1		7.8		<L.O.D.		0.39		0.2	3
	4		.01						7.3		7.8							4
	5		.01						7.1		7.6							5
	6		.01						6.8		7.5							6
	7		.01						6.9		7.4							7
	8		.01						6.8		7.5							8
	9		.01						6.9		7.8							9
	10		.01						7.1		7.8							10
	11		.01						7.4		7.9							11
	12		.002						7.2		8.3							12
	13		.01						7.0		7.8							13
	14		.01						7.3		8.0							14
	15		.01						7.5		8.1							15
	16		.01						7.3		8.3							16
	17		.01						7.7		8.3							17
	18		.01						7.5		8.2							18
PLANT DOWN	19		0						7.4		8.0							19
	20		0						0		0							20
	21		.01						7.3		8.1							21
	22		.02						7.0		8.1							22
	23		.004						6.9		7.6							23
	24		.01						6.8		7.5							24
	25		.01						6.7		7.6							25
	26		.01						6.7		7.8							26
	27		.01						6.9		7.8							27
	28		.01						7.0		7.8							28
	29		.01						7.1		7.7							29
	30		.01						6.9		7.9							30
	31		.01						6.9		7.7							31
	TOTAL		.296		11.5		0		212.7		235.7		0		0.39		0.2	

P. 2

FROM OCONOMO GWTP 414 474 4319

4-01-1997 10:29AM

n these columns enter number of samples analyzed per lay if more than one. Unless noted under parameter ame, each daily value entered must be the highest value f all sample types analyzed for that day. Sec. 147.08, Vis. Stats.

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

Signature of Operator	Certificate Number if Applicable	Date
Dean P. Groleau	29978	1APR97
Signature of Principal Executive Officer or Authorized Agent	Title	Date

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COMMENT SECTION

< L.O.D. = LESS THAN LIMIT OF DETECTION

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District Editor ND

Date Edited NI

Other( ) NE

Samples analyzed by: SPECIALIZED ASSAYS

Lab ID# 9980228

Lab ID# 998020430

(√) if Quality Control exceedances

PERMITEE'S NAME
OCONOMOWOC ELECTROPLATING SUPERFUND

FACILITY NAME
OCONOMOWOC ELECTROPLATING SUPERFUND
414-474-3024

MIN

PERMIT NUMBER 0049531

MONTH MARCH 1997

COUNTY 14-DODGE

FID

SAMPLE PT. NUMBER	001(EFFL)	001(EFFL)	001(EFFL)	001(EFFL)	001(EFFL)	001(EFFL)	001(EFFL)	001(EFFL)	001(EFFL)
SAMPLE PT. DESCRIPTION	INFILTRATION GALLERY	INFILTRATION GALLERY	INFILTRATION GALLERY	INFILTRATION GALLERY	INFILTRATION GALLERY	INFILTRATION GALLERY	INFILTRATION GALLERY	INFILTRATION GALLERY	INFILTRATION GALLERY
PARAMETER NUMBER	00244	00340	00134	00261	00262	00133	00630	00610	
PARAMETER NAME	FLOW	COD	SUSPENDED SOLIDS TOTAL	PH (MINIMUM)	PH (MAXIMUM)	PHOSPHORUS TOTAL AS P	NITROGEN NITRITE PLUS NITRATE	NITROGEN (AMMONIA) NH3-N	
PARAMETER UNITS	MGD	MG/L	MG/L	S U	S U	MG/L	MG/L	MG/L	
NOTES (SEE COMMENT SECTION ABOVE)									
MONTHLY AVERAGE	.01	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
DAILY MAXIMUM	.02	11.5	0	XXXXXXXXXX	8.5	0	0.39	0.2	
DAILY MINIMUM	0	XXXXXXXXXX	XXXXXXXXXX	6.7	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	
NUMBER OF VALUES REPORTED	29	1	1	30	30	1	1	1	

LIMIT REQUIREMENTS	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded
MONTHLY AVERAGE		0		0		0		0		0		0		0		0
DAILY MAXIMUM																
DAILY MINIMUM																
WEEKLY AVERAGE																
FREQUENCY OF SAMPLING	DAILY		MONTHLY		MONTHLY		DAILY		DAILY		MONTHLY		MONTHLY		MONTHLY	
SAMPLE TYPE REQUIRED	CONTINUOUS		24HR COMP		24HR COMP		CONTINUOUS		CONTINUOUS		24HR COMP		24HR COMP		24HR COMP	

4-01-1997 10:31AM FROM OCONOMO GWTP 414 474 4319 P.3

NUMBER 0049531 MONTH MARCH 1997 FACILITY NAME: OCONOMOWOC ELECTROPLATING SUPERFUN PAGE 2

E PT. NUMBER / METER NUMBER		001(EFFL) 43005		001(EFFL) 43031		001(EFFL) 34501		001(EFFL) 81574		001(EFFL) 34546		001(EFFL) 43008		001(EFFL) 43024		001(EFFL) 43002		
IKS	Date	*	1	*	2	*	3	*	4	*	5	*	6	*	7	*	8	Date
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	2																	2
	3		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD	3
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	30																	30
	31																	31
TOTAL			0		0		0		0		0		0		0		0	

n these columns enter number of samples analyzed per ay if more than one. Unless noted under parameter ame, each daily value entered must be the highest value f all sample types analyzed for that day. Sec. 147.08, Wis. Stats.

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

Signature of Operator: Dean P. Dugan	Certificate Number if Applicable: 29978	Date: 1APR97
Signature of Principal Executive Officer or Authorized Agent	Title	Date

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District Editor	ND
Date Edited	NI
Other( )	NE

Samples analyzed by SPECIALIZED ASSA
Lab ID# 9980204 30
Lab ID#
(√) if Quality Control exceedances

PERMITEE'S NAME
OCONOMOWOC ELECTROPLATING SUPERFUND
FACILITY NAME
OCONOMOWOC ELECTROPLATING SUPERFUND
414-474-3024

MIN

PERMIT NUMBER 0049531 MONTH MARCH 1997 COUNTY 14-DODGE FID

SAMPLE PT. NUMBER / SAMPLE PT. DESCRIPTION	001(EFFL) INFILTRATION GALLERY	001(EFFL) INFILTRATION GALLERY	001(EFFL) INFILTRATION GALLERY	001(EFFL) INFILTRATION GALLERY	001(EFFL) INFILTRATION GALLERY	001(EFFL) INFILTRATION GALLERY	001(EFFL) INFILTRATION GALLERY	001(EFFL) INFILTRATION GALLERY
PARAMETER NUMBER / PARAMETER NAME / PARAMETER UNITS	43005 1,1 DICHLOROETHANE PPB UG/L	43031 1,2 DICHLOROETHANE UG/L	34501 1,1 DICHLOROETHYLENE UG/L	81574 1,2-CIS-DICHLORO ETHENE UG/L	34546 1,2 TRANS-DICHLORO ETHYLENE UG/L	43008 ETHYLBENZENE UG/L	43024 METHYLENE CHLORIDE PPB UG/L	43002 TOLUENE PPB UG/L
NOTES (SEE COMMENT SECTION ABOVE)								
MONTHLY AVERAGE	0	0	0	0	0	0	0	0
DAILY MAXIMUM	0	0	0	0	0	0	0	0
DAILY MINIMUM	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
NUMBER OF VALUES REPORTED	4	4	4	4	4	4	4	4

PERMIT REQUIREMENTS	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded
MONTHLY AVERAGE	85.00	0	0.50	0	0.70	0	7.00	0	20.00	0	140.00	0	0.50	0	68.00	0
DAILY MAXIMUM																
DAILY MINIMUM																
WEEKLY AVERAGE																
FREQUENCY OF SAMPLING	MONTHLY		MONTHLY		MONTHLY		MONTHLY		MONTHLY		MONTHLY		MONTHLY		MONTHLY	
SAMPLE TYPE REQUIRED	GRAB		GRAB		GRAB		GRAB		GRAB		GRAB		GRAB		GRAB	

P.5

4-01-1997 10:33AM FROM OCONOMO GWTP 414 474 4319

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PAGE 3 OF 5

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Samples analyzed by: SPECIALIZED ASSAY
Lab ID# 9980204430
Lab ID#
(√) if Quality Control exceedances

PERMITEE'S NAME
OCONOMOWOC ELECTROPLATING SUPERFUND
FACILITY NAME
OCONOMOWOC ELECTROPLATING SUPERFUND
414-474-3024

/ MIN

PERMIT NUMBER 0049531 MONTH MARCH 1997 COUNTY 14-DODGE FID

SAMPLE PT. NUMBER / SAMPLE PT. DESCRIPTION	001(EFFL) INFILTRATION GALLERY	001(EFFL) INFILTRATION GALLERY	001(EFFL) INFILTRATION GALLERY	001(EFFL) INFILTRATION GALLERY	001(EFFL) INFILTRATION GALLERY	001(EFFL) INFILTRATION GALLERY	001(EFFL) INFILTRATION GALLERY	001(EFFL) INFILTRATION GALLERY
PARAMETER NUMBER / PARAMETER NAME	43003 1,1,1-TRICHLOROETHANE	43004 1,1,2-TRICHLOROETHANE PPB	43007 TRICHLOROETHYLENE	43006 TETRACHLOROETHYLENE	43032 VINYL-CHLORIDE	43001 XYLENE PPB	00720 CYANIDE TOTAL	00719 CYANIDE FREE
PARAMETER UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
NOTES (SEE COMMENT SECTION ABOVE)								
MONTHLY AVERAGE	0	0	0	0	0	0	0	0
DAILY MAXIMUM	0	0	0	0	0	0	0	0
DAILY MINIMUM	0	XXXXXXXXXX	0	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	0	0
NUMBER OF VALUES REPORTED	4	4	4	4	4	4	4	4

PERMIT REQUIREMENTS	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded
MONTHLY AVERAGE	40.00	0	0.50	0	0.50	0	0.50	0	0.20	0	124.00	0	40.00	0		0
DAILY MAXIMUM																
DAILY MINIMUM																
WEEKLY AVERAGE																
FREQUENCY OF SAMPLING	WEEKLY		MONTHLY		WEEKLY		MONTHLY		MONTHLY		MONTHLY		WEEKLY		WEEKLY	
SAMPLE TYPE REQUIRED	GRAB		GRAB		GRAB		GRAB		GRAB		GRAB		GRAB		GRAB	

PERMIT NUMBER 0049531 MONTH MARCH 1997 FACILITY NAME: OCONOMOWOC ELECTROPLATING SUPERFUN PAGE 3

SAMPLE PT. NUMBER / PARAMETER NUMBER		001(EFFL) 43003		001(EFFL) 43004		001(EFFL) 43007		001(EFFL) 43006		001(EFFL) 43032		001(EFFL) 43001		001(EFFL) 00720		001(EFFL) 00719	
REMARKS	Date	*	1	*	2	*	3	*	4	*	5	*	6	*	7	*	8
	1																
	2																
	3		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD
	4																
	5																
	6																
	7																
	8																
	9																
	10		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD
	11																
	12																
	13																
	14																
	15																
	16																
	17		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD
	18																
	19																
	20																
	21																
	22																
	23																
	24		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD
	25																
	26																
	27																
	28																
	29																
	30																
	31																
TOTAL			0		0		0		0		0		0		0		0

* In these columns enter number of samples analyzed per day if more than one. Unless noted under parameter name, each daily value entered must be the highest value of all sample types analyzed for that day. Sec. 147.08, Wis. Stats.

RETAIN FACILITY COPY
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3911 FISH HATCHERY ROAD
FITCHBURG, WI. 53711

FACILITY ADDRESS
ROGER FIELD
OCONOMOWOC ELECTROPLATING SUPERFUND
PO BOX 352
ASHIPPUN WI 53003

RETURN REPORT NO LATER THAN: APRIL 15

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

Signature of Operator	Certificate Number if Applicable	Date
Dean P. DeLean	29978	1APR97
Signature of Principal Executive Officer or Authorized Agent	Title	Date

ORIGINAL COPY

SEE BACK OF FORM FOR INSTRUCTIONS

SAMPLE TYPE REQUIRED	24HR COMP	24HR COMP	24HR COMP	24HR COMP	24HR COMP	24HR COMP	24 HR COMP	GRAB

PERMIT NUMBER 0049531 MONTH MARCH 1997 FACILITY NAME: OCONOMOWOC ELECTROPLATING SUPERFUN PAGE 4

SAMPLE PT. NUMBER / PARAMETER NUMBER		001(EFFL) 01007		001(EFFL) 01002		001(EFFL) 74010		001(EFFL) 00120		001(EFFL) 01113		001(EFFL) 00123		001(EFFL) 00122		001(EFFL) 00121	
REMARKS:	Date	*	1	*	2	*	3	*	4	*	5	*	6	*	7	*	8
	1																
	2																
	3		89		<LOD		2060		<LOD		<LOD		<LOD		<LOD		<LOD
	4																
	5																
	6																
	7																
	8																
	9																
	10		73		<LOD		772		<LOD		<LOD		<LOD		<LOD		<LOD
	11																
	12																
	13																
	14																
	15																
	16																
	17		71		<LOD		932		1		<LOD		<LOD		<LOD		<LOD
	18																
	19																
	20																
	21																
	22																
	23																
	24		80		<LOD		1080		<LOD		<LOD		<LOD		<LOD		<LOD
	25																
	26																
	27																
	28																
	29																
	30																
	31																
TOTAL			313		0		4844		1		0		0		0		0

* In these columns enter number of samples analyzed per day if more than one. Unless noted under parameter name, each daily value entered must be the highest value of all sample types analyzed for that day. Sec. 147.08, Wis. Stats.

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FACILITY ADDRESS
ROGER FIELD
OCONOMOWOC ELECTROPLATING SUPERFUND
PO BOX 352
ASHIPPUN WI 53003

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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

Signature of Operator	Certificate Number if Applicable	Date
Dean P. Giolean	29998	14APR97
Signature of Principal Executive Officer or Authorized Agent	Title	Date

SEE BACK OF FORM FOR INSTRUCTIONS

P. 9

4-01-1997 10:38AM FROM OCONOMO GWTP 414 474 4319

DISCHARGE MONITORING REPORT FORM
orm 3200-28 Rev. 8-93

DATE RECEIVED

COMMENT SECTION

<LOD = LESS THAN THE LIMIT OF DETECTION

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District Editor ND
Date Edited NI
Other( ) NE

PAGE OF

Samples analyzed by SPECIALIZED ASSAYS
Lab ID# 9980204 30
Lab ID#
(√) if Quality Control exceedances

PERMITEE'S NAME
OCONOMOWOC ELECTROPLATING SUPERFUND /
FACILITY NAME MIN
OCONOMOWOC ELECTROPLATING SUPERFUND
414-474-3024

ERMIT NUMBER 0049531 MONTH MARCH 1997 COUNTY 14-DODGE FID

AMPLE PT. NUMBER	001(EFFL)	001(EFFL)	001(EFFL)	001(EFFL)	001(EFFL)	001(EFFL)	001(EFFL)	001(EFFL)
AMPLE PT. DESCRIPTION	INFILTRATION GALLERY	INFILTRATION GALLERY	INFILTRATION GALLERY	INFILTRATION GALLERY	INFILTRATION GALLERY	INFILTRATION GALLERY	INFILTRATION GALLERY	INFILTRATION GALLERY
RAMETER NUMBER	01007	01002	74010	00120	01113	00123	00122	00121
RAMETER NAME	BARIUM TOTAL	ARSENIC TOTAL	IRON TOTAL	CADMIUM TOTAL	CADMIUM TOTAL RECOVERABL	COPPER TOTAL	CHROMIUM TOTAL	CHROMIUM HEXAVALENT (+6)
RAMETER UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
OTES (SEE COMMENT SECTION ABOVE)								
ONTHLY AVERAGE	78	0	1211	.25	0	0	0	0
LY MAXIMUM	89	0	2060	1	0	0	0	0
LY MINIMUM	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	0	0	XXXXXXXXXX	0	XXXXXXXXXX
MBER OF VALUES REPORTED	4	4	4	4	4	4	4	4

IMIT REQUIREMENTS	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded
NTHLY AVERAGE	400.00	0	5.00	0		0	0.50	1		0		0	10.00	0		0
Y MAXIMUM																
Y MINIMUM																
EKLY AVERAGE																
QUENCY OF SAMPLING	MONTHLY		MONTHLY		MONTHLY		WEEKLY		WEEKLY		MONTHLY		WEEKLY		MONTHLY	
IPLE TYPE REQUIRED	24HR COMP		24HR COMP		24HR COMP		24HR COMP		24HR COMP		24HR COMP		24HR COMP		GRAB	

PERMIT NUMBER 0049531 MONTH MARCH 1997 FACILITY NAME: OCONOMOWOC ELECTROPLATING SUPERFUN PAGE 5

SAMPLE PT. NUMBER / PARAMETER NUMBER		001(EFFL) 00125		001(EFFL) 00253		001(EFFL) 00126		001(EFFL) 00128		001(EFFL) 00270		001(EFFL) 00271		001(EFFL) 01059		001(EFFL) 00131		
REMARKS	Date	*	1	*	2	*	3	*	4	*	5	*	6	*	7	*	8	Date
	1																	1
	2																	2
	3		<L.OD.		24		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD	3
	4																	4
	5																	5
	6																	6
	7																	7
	8																	8
	9																	9
	10		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD		46	10
	11																	11
	12																	12
	13																	13
	14																	14
	15																	15
	16																	16
	17		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD		20	17
	18																	18
	19																	19
	20																	20
	21																	21
	22																	22
	23																	23
	24		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD		<LOD	24
	25																	25
	26																	26
	27																	27
	28																	28
	29																	29
	30																	30
	31																	31
TOTAL			0		24		0		0		0		0		0		66	

these columns enter number of samples analyzed per
y if more than one. Unless noted under parameter
ne, each daily value entered must be the highest value
all sample types analyzed for that day. Sec. 147.08,
s. Stats.

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FITCHBURG, WI. 53711

FACILITY ADDRESS
~~ROGER FIELD~~ Dean Groleau
OCONOMOWOC ELECTROPLATING SUPERFUND
PO BOX 352
ASHIPPUN WI 53003

TURN REPORT NO LATER THAN: APRIL 15

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ervision in accordance with a system designed to assure that qualified personnel properly gather and
luate the information submitted. Based on my inquiry of the person or persons who manage the system
ose persons directly responsible for gathering the information, the information submitted is, to the best
y knowledge and belief, true, accurate and complete. I am aware that there are significant penalties
submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of Operator	Certificate Number if Applicable	Date
Dean P. Groleau	29978	1APR97
Signature of Principal Executive Officer or Authorized Agent	Title	Date

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DISCHARGE MONITORING REPORT FORM
Form 3200-28 Rev. 8-93

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COMMENT SECTION

< LOD = ½ LESS THAN THE LIMIT OF DETECTION

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Date Edited		NI
Other( )		NE

PAGE OF

Samples analyzed by: SPECIALIZED ASSAYS

Lab ID# 9980204320

Lab ID#

(√) if Quality Control exceedances

PERMITEE'S NAME
OCONOMOWOC ELECTROPLATING SUPERFUND

FACILITY NAME
OCONOMOWOC ELECTROPLATING SUPERFUND

414-474-3024

MIN

PERMIT NUMBER 0049531 MONTH MARCH 1997 COUNTY 14-DODGE FID

SAMPLE PT. NUMBER	001(EFFL)	001(EFFL)	001(EFFL)	001(EFFL)	001(EFFL)	001(EFFL)	001(EFFL)	001(EFFL)
SAMPLE PT. DESCRIPTION	INFILTRATION GALLERY	INFILTRATION GALLERY	INFILTRATION GALLERY	INFILTRATION GALLERY	INFILTRATION GALLERY	INFILTRATION GALLERY	INFILTRATION GALLERY	INFILTRATION GALLERY
PARAMETER NUMBER	00125	00253	00126	00128	00270	00271	01059	00131
PARAMETER NAME	LEAD TOTAL	MANGANESE TOTAL	MERCURY TOTAL	NICKEL TOTAL	SELENIUM TOTAL	SILVER TOTAL	THALLIUM TOTAL	ZINC TOTAL
PARAMETER UNITS	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
NOTES (SEE COMMENT SECTION ABOVE)								
MONTHLY AVERAGE	0	XXXXXXXXXX	0	0	0	0	0	16.5
DAILY MAXIMUM	0	24	0	0	0	0	0	46
DAILY MINIMUM	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
NUMBER OF VALUES REPORTED	4	4	4	4	4	4	4	4

PERMIT REQUIREMENTS	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded	LIMIT	Times Exceeded
MONTHLY AVERAGE	1.50	0		0	0.20	0	20.00	0	10.00	0	10.00	0	0.40	0		0
DAILY MAXIMUM																
DAILY MINIMUM																
WEEKLY AVERAGE																
FREQUENCY OF SAMPLING	MONTHLY		MONTHLY		MONTHLY		MONTHLY		MONTHLY		MONTHLY		MONTHLY		MONTHLY	
SAMPLE TYPE REQUIRED	24HR COMP		24HR COMP		24HR COMP		24HR COMP		24HR COMP		24HR COMP		24HR COMP		24HR COMP	

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4-01-1997 10:41AM FROM OCONOMO GWTP 414 474 4319