Six Month Influent Hack Hach SLOH Hack yexin terch Hexch 0.3 1.3 9/13/00 501 9/13/00 SLOH Hach 2,413 10-4,25 3.91 2,25 Holdir Exceder

ENFORCEMENT

Sample(s) will be disposed of ninety days from the date the sample is reported, unless this form is completed and returned to:

> Attn: Julie Inorganic Chemistry Unit Wis. State Lab. of Hygiene 2601 Agriculture Drive P.O. Box 7996 Madison, WI 53707-7996

Collector: HUFFMAN

JENNIFER HUFFMAN - WDNR

3369 W BREWSTER ST

APPLETON WI 54914

District/Area: North East

Phone Number:

Sample Number(s): IL012031

Report date: 01/25/01

____Retain sample(s) for ____days. ____Retain sample(s) until further notice.

State Laboratory of Hygiene University of Wisconsin Center for Health Sciences 2601 Agriculture Drive, Madison, WI 53707-7996 R.H. Laessig, Ph.D., Director D.F. Kurtycz, M.D., Medical Director Environmental Science Section (608) 224-6277 DNR LAB ID 113133790 Inorganic chemistry Id: 445014460 Point/Well/..: 001 Field #: S01 Rou Collection Date: 11/20/00 Time: 14:30 County: 45 (Outagamie) Route: RR40 From: NW MAUTHE SUPERFUND SITE 725 S OUTAGAMIE APPLETON Description: UNTREATED INFLUENT SAMPLE COLLECTED FROM STORAGE TANK To: JENNIFER HUFFMAN Type: Compliance DNR Source: Influent APPLETON Account number: RR019 Collected by: HUFFMAN Enforcement Date Received: 11/21/00 Labslip #: IL012031 Reported: 01/25/01 -----ALUMINUM, TOTAL REC, ICP (SW846 6010B) ARSENIC, TOTAL REC, AA FURN (SM 3113B) CADMIUM, TOTAL REC, AA FURN (SM 3113B) ND (LOD=31 UG/L)ND (LOD=0.8 UG/L) 0.06 UG/L detected between 0.04 (LOD) and 0.12 (LOQ) UG/L CHROMIUM, TOTAL REC, ICP (SW846 6010B) CHROMIUM, HEXAVALENT (USGS I-1230-85) UG/L UG/L 2200. 2400. COPPER, TOTAL REC, ICP (SW846 6010B) CYANIDE (EPA 335.4) ND (LOD=5 UG/L) ND (LOD=0.004 MG/L)DIG, TOTAL REC, ICP, LIQUIDS (SW846 3005A) DIG, TOTAL REC, AA FURN, LIQUID (SM 3030E) DIG 760.1, TOT REC, LIQ, AS/SE ONLY (SW846 7060A) DIG MET DIG MET DIG MET LEAD, TOTAL REC, AA FURN (SM 3113B) ND (LOD=0.8 UG/L)MERCURY, AA COLD VAPOR (EPA 245.1) ND (LOD=0.03 UG/L)NICKEL, TOTAL REC, ICP (SW846 6010B) ND (LOD=9 UG/L) ZINC, TOTAL REC, ICP (SW846 6010B) TEMPERATURE ON RECEIPT ND (LOD=19 UG/L) ICED С

ICP TEST

ICP

State of Wisconsin Laboratory of Hygiene

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Inorganic Test Request Form 4800-15 (R 2/99) Page 1 of 2

License #, I.D. Number, Permit or STORET Point, Well or Outfall #)	Field Number County # Route Code
445014460 001	SOL 45 RR4_
Waterbody Number Sample Address or Location	
N.W. Mauthe Super	tund Site, 725 S. Outagamie, Hopleton
Sample Point Description	Callented forma Stamas Tarak
DATER INTUENT SAMPLE	Contected more storage aution
First Name Last Name	Sufface Water EF Effluent (Treated Wastewater)
Jennifer Huffman	NP Storm Water
Address WDNR	SL Sludge LY Lysimeter For Lab Use:
3369 W, Brewster St.	LE Leachate SO Soil Phonity
City 1 22/24 State Zip	OW Waste
HPPICION WI 54914	Water System Type (Water Supply Use ONLY): Sample Sources (WS ONLY):
Date Results Needed (MM/DD/YYYY) Fax Res? Fax Number	MC Community-Municipality D Distribution DC Community-Municipal DE Estar Baint
12 - 20 - 2000 $100 - 100$	TN Transient Non-Community
RRD19 lenging the Huston	NN Non-Transient Non-Community P Private Sample Type (SDWA ONLY):
Lakes Grant or WB Project # Telephone Number	X Non-Potable D Compliance Sample
920-832-1803	La Sample Chlorinated 2 Vec. Vin No.
Begin or Grab Date (MM/DD/YYYY) Begin Time (24-hr clock)	Check any appropriate:
11-20-2000 14:30	S Split B Field Blank K E Enforcement K Y Compliance
End Date - For Composite Samples End Time (24-hr clock) - For	Depth of Sample (feet or meters)
Only (MM/DD/YYYY) Composite Samples Only	F or M
Field Parameters - Ontional	60 ml Bottle
Sample Temperature - field (°C)	Sample Bottle Field Filtered? (Check box if yes)
Ambient Air Temperature - field (°C)	Nitrite (NO) as Nitrogen Nitrite (NO) as Nitrogen Nitrite (NO) as Nitrogen
DO field (ma/l)	Quart Mason Jar (Also TCLP Metals)
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) Oil & Grease Dil & Grease 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) Oil & Grease pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid) Sample Bottle Field Eitherd?
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) Oil & Grease pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid) Sample Bottle Field Filtered? (Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) Oil & Grease pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid) Sample Bottle Field Filtered? (Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar) Total Recoverable Metals
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid) Sample Bottle Field Filtered? (Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar) X Total Recoverable Metals Aluminum Autimony
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid) Sample Bottle Field Filtered? (Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar) Total Recoverable Metals Aluminum Lead Antimony Magnesium Manganese Results
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle for Nutrients or Metals - Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar) Total Recoverable Metals Aluminum Lead Antimony Magnesium Barium* Mercury* Beryllium Molybdenum
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid) Sample Bottle Field Filtered? (Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar) Total Recoverable Metals Antimony Magnaese Barium* Mercury* Beryllium Molybdenum Boron Nickei Motybdenum* Detactive
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) Oil & Grease pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid) Sample Bottle Field Filtered? (Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar) X Total Recoverable Metals Aluminum Lead Artimony Magnesium Barium* Mercury* Beryllium Molybdenum Boron Nickel Cadmium* Potassium Calcium Selenium
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) Oil & Grease pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle for Nutrients or Metals - Check box if yes) Sample Bottle Field Filtered? (Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar) Total Recoverable Metals Antimony Magnesium Arsenic* Manganese Barium* Mercury* Boron Nickei Cadmium* Selenium Calcium Selenium Calcium, Total* Silver Chromium, Hexavalent ¹ Sodium
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid) Sample Bottle Field Filtered? (Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar) X Total Recoverable Metals Aluminum Lead Artimony Magnesium Barium* Mercury* Beryllium Molybdenum Boron Nickei Cadmium* Potassium Calcium Selenium Chromium, Total* Solium Copper Thallium
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) Oil & Grease pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid) Sample Bottle Field Filtered? (Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)("TC Regulated Metals)(Use Mason Jar) Total Recoverable Metals Aluminum Lead Antimony Magnesium Barium* Mercury* Beryllium Molybdenum Boron Nickei Calcium Selenium Calcium, Total* Silver Chromium, Total* Sodium Copper Thallium Hardness-as CaCO3 Zinc
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle for Nutrients or Metals - Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar) Total Recoverable Metals Antimony Magnesium Arsenic* Manganese Barium* Mercury* Boron Nickei Calcium Selenium Calcium Selenium Chromium, Total* Silver Copper Thallium Hardness-as CaCQ3 Zinc Tool to 4°C Only Nutrients Bottle (Acidify W/Sulfuric Acid)
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid) Sample Bottle Field Filtered? (Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar) Total Recoverable Metals Aluminum Lead Artimony Magnesium Barium* Mercury* Beryllium Molybdenum Boron Nickei Calcium Selenium Calcium, Total* Silver Chromium, Total* Sodium Copper Thallium Hardness-as CaCQ3 Zinc Iron 'Cool to 4°C Only Nutrients Bottle (Acidify W/Sulfuric Acid) Sample Bottle Field Filtered? (Check box if yes)
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid) Sample Bottle Field Filtered? (Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)("TC Regulated Metals)(Use Mason Jar) Total Recoverable Metals Aluminum Lead Antimony Magnesium Barium* Mercury* Beryllium Molybdenum Boron Nickel Cadium* Potassium Calcium Selenium Chromium, Total* Sodium Coopper Thallium Hardness-as CaCO3 Zinc Iron 'Cool to 4°C Only Nutrients Bottle (Acidify W/Sulfuric Acid) Sample Bottle Field Filtered? (Check box if yes) TotPhosphorus NO ₂ +NO ₃ as Nitrogen Ammonia-N NO ₂ +NO ₃ as Nitrogen
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle for Nutrients or Metals - Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar) Total Recoverable Metals Arsenic* Magnesium Barium* Mercury* Beryllium Molybdenum Boron Nickei Calcium Selenium Calcium Selenium Chromium, Total* Silver Copper Thallium Hardness-as CaCO3 Zinc Total Recure? (Check box if yes) Tocol to 4°C Only
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid) Sample Bottle Field Filtered? (Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar) Total Recoverable Metals Antimony Magnesium Arsenic* Manganese Barium* Mercury* Beryllium Molybdenum Boron Nickei Cadicium Selenium Chromium, Total* Silver Chromium, Hexavalent1 Sodium Copper Thallium Hardness-as CaCO3 Zinc TotPhosphorus NO2+NO3 as Nitrogen Ammonia-N NO2+NO3 as Nitrogen TotPhosphorus Chemical Oxygen Demand (COD) Please indicate which analyte groups (if any) have been field filtered by checking the box and noting on the lid of the sample bottle.
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid) Sample Bottle Field Filtered? (Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar) Total Recoverable Metals Aluminum Lead Atrimony Magnesium Arsenic* Manganese Barium* Mercury* Beryllium Molybdenum Calcium Potassium Calcium Silver Calcium Solium Chromium, Total* Silver Chromium, Total* Solium Hardness-as CaCO3 Zinc Iron 'Cool to 4°C Only Nutrients Bottle (Acidify W/Sulfuric Acid) Chemical Oxygen Demand (COD) Sample Bottle Field Filtered? (Check box if yes) Otal Kjeldahl-N Chromium, Total* NO2 +NO3 as Nitrogen Chromium, Notal+ Cool to 4°C Only Nutrients Bottle (Acidify W/Sulfuric Acid) Chemical Oxygen Demand (COD)
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid) Sample Bottle Field Filtered? (Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar) Total Recoverable Metals Aluminum Lead Antimony Magnesium Barium* Mercury* Beryllium Molybdenum Borion Nickel Calcium Selenium Chromium, Total* Silver Chromium, Total* Sodium Copper Thallium Hardness-as CaCO3 Zinc TotPhosphorus NO2 +NO3 as Nitrogen Total Kjeldahl-N Chemical Oxygen Demand (COD) Please indicate which analyte groups (if any) have been field filtered by checking the box and noting on the lid of the sample bottle.
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid) Sample Bottle Field Filtered? (Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar) Total Recoverable Metals Aluminum Lead Antimony Magnesium Barium* Mercury* Beryllium Molybdenum Octarium* Potassium Cadium Selenium Chromium, Total* Silver Chromium, Hexavalent1 Sodium Copper Thallium Hardness-as CaCO3 Zinc Total Kjeldahl-N Chemical Oxygen Demand (COD) Please indicate which analyte groups (if any) have been field filtered by checking the box and noting on the lid of the sample bottle. Bari Bottle Field Filtered— MFFCC Estimate: Fecal Strep.* "Sample Bottle Field of the sample bottle.
DO field (mg/l) pH (su) field Secchi Depth (feet or meters) Cloud Cover% For M % Cond-fld (µMHOS/CM@25°C) Gage Height (ft) Flow cfs Flow MGD Depth to Groundwater (ft) Turbidity (NTU) Plastic Quart Bottle Sample Bottle Field Filtered? (Check box if yes) Total Solids PH only (non-Waste or non-Compliance) Susp. Solids (≥ 10 mg/l) Vol. Total Solids PH only (non-Waste or non-Compliance) Susp. Solids (≥ 10 mg/l) Vol. Susp. Solids Sulfate Total Dissolved BOD Estimate Required Color (Submit Additional Sample) BOD Estimate Required Color Cyanide, Amendable to Chlorination Chlorophyl A (□ Uncorrected or □ Corrected)	Quart Mason Jar (Also TCLP Metals) pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid) Sample Bottle Field Filtered? (Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar) Total Recoverable Metals Autiminum Lead Antimony Magnesium Barium* Mercury* Beryllium Molybdenum Boron Nickel Calcium Selenium Calcium Selenium Calcium, Hexavalent ¹ Sodium Copper Thallium Hardness-as CaCO3 Zinc Total Kjeldahl-N Chemical Oxygen Demand (COD) Please indicate which analyte groups (if any) have been field filtered by checking the box and noting on the lid of the sample bottle. Bacti Bottle MFFCC* Fecal Strep.* MFFCC Estimate: Fecal Strep.* MFFCC Estimate: Fecal Strep.* MFFCC Estimate: Fecal Strep.* MFFCC Estimate: Fecal Strep.*
DO field (mg/l) pH (su) field Secchi Depth (feet or meters) Cloud Cover % For M % Cond-fid (µMHOS/CM@25°C) Gage Height (ft) Flow cfs Flow MGD Depth to Groundwater (ft) Turbidity (NTU) Plastic Quart Bottle Sample Bottle Field Filtered? (Check box if yes) Total Solids PH only (non-Waste or non-Compliance) Susp. Solids (≥ 10 mg/l) Vol. Total Solids PH only (non-Waste or non-Compliance) Susp. Solids (≥ 10 mg/l) Vol. Susp. Solids Sulfate Total Dissolved Solids Sulfate Total Dissolved Solids Sulfate GoD Total Low Level (Submit Additional Sample) BOD Estimate Required mg/l Cyanide, Amendable to Chlorination Chiorophyl A (□ Uncorrected or □ Corrected) (if Field Filtered, give ml filtered)	Quart Mason Jar (Also TCLP Metals) pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid) Sample Bottle Field Filtered? (Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar) Total Recoverable Metals Aluminum Lead Attimony Magnesium Assenic* Manganese Barium* Mercury* Beryllium Molybdenum Cadmium* Potassium Calcium Selenium Chromium, Total* Silver Copper Thallium Hardness-as CaCO3 Zinc Iron 'Cool to 4°C Only Nutrients Bottle (Acidify W/Sulfuric Acid) Sample Bottle Field Filtered? (Check box if yes) Total Kjeldahl-N Only 2+NO3 as Nitrogen Total Kjeldahl-N Only 2+NO3 as Nitrogen Total Kjeldahl-N Chemical Oxygen Demand (COD) Please indicate which analyte groups (if any) have been field filtered by checking the box and noting on the lid of the sample bottle. Bacti
DO field (mg/l) pH (su) field Secchi Depth (feet or meters) Cloud Cover % For M % Cond-fid (µMHOS/CM@25°C) Gage Height (ft) Flow cfs Flow MGD Depth to Groundwater (ft) Turbidity (NTU) Plastic Quart Bottle Sample Bottle Field Filtered? (Check box if yes) Total Solids PH only (non-Waste or non-Compliance) Susp. Solids (≥ 10 mg/l) Susp. Solids (≥ 10 mg/l) Golor (Submit Additional Sample) BOD Dissolved BOD Dissolved BOD Total Low Level (Submit Additional Sample) BOD Estimate Required Gyanide, Amendable to Chlorination Cyanide, Amendable to Chlorination Cyanide, Amendable to Chlorination Chlorophyl A (□ Uncorrected or □ Corrected) (if Field Filtered, give ml filtered)	Quart Mason Jar (Also TCLP Metals) pH (Waste Samples Only) 250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid) Sample Bottle Field Filtered? (Check box if yes) Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar) Atuminum Lead Atuminum Lead Assenic* Marganese Barium* Mercury* Cadaium* Potassium Chromium, Total* Silver Chromium, Total* Silver Chromium, Hexavalent ¹ Sodium Hardness-as CaCO3 Zinc Total Kjeldahl-N NO2 +NO3 as Nitrogen Total Kjeldahl-N NO2 +NO3 as Nitrogen Total Kjeldahl-N Chemical Oxygen Demand (COD) Please indicate which analyte groups (if any) have been field filtered by checking the box and noting on the lid of the sample bottle. Bacti Bottle Fecal Strep: MFFCC Estimate: Fecal Strep: MFFCC Estimate: Fecal Strep: MFFCC Estimate: Fecal Strep: MFFCC Estimate:

Form 4800-15 (2/99) Page 2 of 2

Partial Instructions

See Chapter 4 "Lab Slips" of the *Field Procedures Manual* (see <u>http://intranet/int/es/science/ls/fpm/IV.htm</u>) for further instructions and definitions.

The **ID Number, Permit or STORET and Point/Well fields** should contain the appropriate IDs, left justified, for the program system the sample is for:

Program	ID Number	Example	Pt./Well	Example
Water Supply - Privates	Unique Well #	AA999	Blank	
Water Supply - Publics RAW	PWS ID #	24100567	Well #	002
Water Supply - Publics DIST	PWS ID #	24100567	Blank	
Waste Management	License #	00130	Point ID	AD6
Watershed Management	Permit #	0000030	Outfall #	001
Fish Management & Habitat Protection	Storet #	265013	Blank	
Remediation & Redevelopment	CERCLIS #	006094197	Point ID	001
Remediation & Redevelopment	FID	268181770	Point ID	001
Remediation & Redevelopment	Brownfields #	00000003	Point ID	001

The **Sample Address or Location field** should be the "entity" name, and depends on the program the sample is for. For example, Facility, Site, Licensee, River/Lake, Owner, etc. Following this information, include the address of the facility or site (if appropriate).

The **Sample Point Description field** should include a description of the point within the property that the sample was collected. For example, secondary settling tank effluent or faucet prior to pressure tank.

The **Route Code** is a four-character code, which will be used to route the sample results from SLOH to whoever wants the results ("Send Report To:" field). These results are routed by the State Laboratory of Hygiene Computer.

First two characters	- Program code: WT, WA, DG, FH, etc.
Third character	- Region code: 1, 2, 4, 6, 7, 8 (see http://intranet/int/es/science/ls/fpm/IV.htm)
Fourth character	- Blank

The Account Number must be completed in order for the samples to be billed to the correct funding source. If you are unsure what the proper account number is refer to http://intranet/int/es/science/ls/Account.htm or contact the DNR Laboratory Coordinator or the State Laboratory of Hygiene.

The Lake Grant or WR Project # field should include the Lake Planning Grant Number or the Water Resources Approved Monitoring Plan Number.

County Code

	Adams	01	Iowa	25	Polk	49
	Ashland	02	Iron	26	Portage	50
	Barron	03	Jackson	27	Price	51
	Bayfield	04	Jefferson	28	Racine	52
	Brown	05	Juneau	29	Richland	53
	Buffalo	06	Kenosha	30	Rock	54
	Burnett	07	Kewaunee	31	Rusk	55
	Calumet	08	La Crosse	32	St. Croix	56
	Chippewa	09	Lafayette	33	Sauk	57
	Clark	10	Langlade	34	Sawyer	58
	Columbia	11	Lincoln	35	Shawano	59
	Crawford	12	Manitowoc	36	Sheboygan	60
	Dane	13	Marathon	37	Taylor	61
	Dodge	14	Marinette	38	Trempealeau	62
	Door	15	Marquette	39	Vernon	63
	Douglas	16	Menominee	40	Vilas	64
-	Dunn	17	Milwaukee	41	Walworth	65
1	Eau Claire	18	Monroe	42	Washburn	66
Mark	Florence	19	Oconto	43	Washington	67
and and	Fond du Lac	20	Oneida	44	Waukesha	68
19192	Forest	21	Outagamie	45	Waupaca	69
ALES .	Grant	22	Ozaukee	46	Waushara	70
Selline .	Green	23	Pepin	47	Winnebago	71
S.A.	Green Lake	24	Pierce	48	Wood	72

State of Wisconsin Department of Natural Resources

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CHAIN	OF	CUSTODY	RECORD
LUST P	kO	GRAM	
Form 44	-004	151	

Rev. 4-93

Note: Use of this form is voluntary but is requested by the Department pursuant to ch. NR 149, NR 500-540, NR 158 and NR 419, Wis. Adm. Code. Personally identifiable information will be used for no other purpose.

Sample, Collec	tor(s)	Huf	Fm	an		Title/Wo	rk Station/Con	mpany Gist/Apol	eton/w.	DNR	Telephor	ne Number (incl	ude area code)	
Property Own	er Car	OI N	lau	the		Property 725	Address 5, Ou	tagamie 5	t. Applei	ton, WI	Telephon	ne Number (incl	ude area code)	e
I he	ereby certify	that I receiv	ed, prope	erly handl	ed, and disp	osed of these	e samples as n	oted below:		Sempl	c Condition c LABORATO	n Receipt by La RY USE ONL	boratory r	
Relinquished	by (Signature	man	E	Date/Time	10, 15:15	5 Received	By (Signatur	e) 11-21-0 ben 9:40	2 Temperature	of temperature 1	blank;			
Relinquished	by (Signature		Ľ	Date/Time	,	Received	By (Signatur	e	If samples we	re received on ic	e and there w	as ice remaining	, you may repo	nt the
Relinquished	by (Signature)		V 2)/ o Date/Time	0 7,5	Received	for Laborato	ry By (Signature)	be substituted	for a temperatu	re blank.	RC WAS INCLUCE,	me ecoperation	or the men hay
						, k								
Field ID Number ¹	Date Collected	Time Collected	Sai Type ²	mple Device ³	Preserv. Type	Field Screening	Description	Analysis	Lab ID Number	No./Type of Containers	Cracked /Broken	Improperly Sealed	Good Condition	Other Comments
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					NaOH,			Cyanide,						
1					HND3.			Mercury						
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¹ Sample descr ² Specify grour	ription must on ndwater, surfa	clearly correl ace water, so	late the soil, leacha	sample ID ate, sludge	to the same, etc.	pling location	shown on a r	map. ³ Type of	sampling device;	split spoon, hand	l auger, metal	spatula, soil syr	inge, etc.	X
Disposition of	DEP. f unused port	ARTMENT	USE/OF	PTIONAL	FOR SOIL	SAMPLER:	S			DEPA	ARTMENT U	JSE ONLY		
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Stori	age T	ank.						C			1 0	3417	67	

State of Wisconsin

CORRESPONDENCE/MEMORANDUM

DATE: November 22, 2000

TO: Mauthe Site Superfund File

FROM: Jennifer Huffman - NERLBH

SUBJECT: Influent Characterization Sample Collection on November 20, 2000

The purpose of this memo is to document the collection of an untreated groundwater sample from the storage tank at the Mauthe Pretreatment building and having it analyzed for several metals. This was the last of six monthly sampling events to characterize the untreated influent. The sample, S01, was collected directly into the sample jars at the sample tap on the storage tank. The storage tank sample tap was purged of approximately 2 gallons prior to sample collection. On November 20, 2000 at 14:30, I collected sample S01 for the following:

- One Quart sample container for total cyanide analysis, preserved with NaOH to a pH greater than 12 and placed in a cooler with ice.
- One 250 ml sample container for total metals analysis of aluminum, arsenic, cadmium, chromium, copper, lead, nickel, and zinc. Sample was preserved with HNO3 to a pH less than 2 and placed in a cooler with ice.
- One 250 ml sample container for mercury analysis, preserved with HNO3 to a pH less than 2 and placed in a cooler with ice.
- One 250 ml sample container for hexavalent chromium analysis and placed in a cooler with ice.

I also collected a split sample of S01 at the same time and analyzed it on site for hexavalent chromium using the Hach Test kit. The result from the first analysis was greater than 1.5 mg/l and out of the range of the test kit. So a fresh split sample was reanalyzed by diluting 10 ml of it with 40 ml distilled water, placing 10 ml of the diluted sample in the test tube, and adding one pillow of reagent. An estimated reading of 0.5 mg/l was determined using the color disc. This result was multiplied by a factor of 5 that resulted in an estimated concentration of 2.5 mg/l. The dilution and analysis were performed according to directions received from the Hach Company dated August 7, 2000. These results will be compared to the results from the State Lab of Hygiene.

The analysis request and chain of custody form for sample S01 was filled out and placed in the cooler with the sample containers. The samples were sent at approximately 3:30 pm on November 20, 2000 to the State Lab of Hygiene via overnight courier. The courier was UPS Ground and the tracking number was 1Z8274340340890524. According to the UPS web site tracking information, they were delivered to the SLOH at 9:15 am on November 21, 2000.

Attachments

Cc: Gary Edelstein – RR/3 (w/attachments)



State of Wisconsin Laboratory of Hygiene

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Inorganic Test Request Form 4800-15 (R 2/99) Page 1 of 2

Lingson # LD. Number Domiter STORET Deint Mall or Ortfoll #)	Eigld Number
License #, i.D. Number, Permit or STORET Point, Weil or Durial #	
<u> 495014460</u> 001	<u>45 KK4</u>
Waterbody Number Sample Address or Location	
N.W. Mauthe Supe	rtund Site 725 S. Dutagamie Appleton
Sample Point Description	
Untreated Tinfluent Somo	le Collected from Storage Tank
Soud Bonort To	
Send Report 10	Sil Surface Water EF Effluent (Treated Waterwater)
	NP Storm Water X IF Influent (Untreated Wastewater)
Jenniter Huttyrari	SE Sediment MW Monitoring Well
Address WDNK	SL Sludge LY Lysimeter
3369 W, Brewster St.	
City State Zip	OW Waste
HPPIETON JUIT 54914	Water System Type (Water Symply Lice ONLY): Sample Sources (WS ONLY):
Date Results Needed (MM/DD/YYYY) Fax Res? Fax Number	MC Community Municipality
12-20-2000 1/0 -	OC ComOther than Municipal
	TN Transient Non-Community
P Collected By	NN Non-Transient Non-Community Sample Type (SDWA ONLY):
BBULY Jenniter Huttman	X Non-Potable D Comoliance Sample
Lakes Grant or WR Project # Telephone Number	
920-832-1803	Is Sample Chlorinated? Yes X No
Begin or Grab Date (MM/DD/YYYY) Begin Time (24-hr clock)	Check any appropriate:
11 - 20 - 2000 $14:30$	S Split B Field Blank E Enforcement X Y Compliance
End Date - For Composite Samples End Time (24-br clock) - For	
Only (MM/DD/YYYY) Composite Samples Only	For M
Field Parameters, Optional	60 ml Bottle
	Sample Bottle Field Filtered? (Check box if yes)
Sample Temperature - field (°C)	NO + NO as Nitrogen (Drinking Water) L DissOrthophosphate
Ambient Air Temperature - field (°C)	U Nitrite (NO) as Nitrogen
DO field (mg/l)	Oil & Grease
	250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply
	Metals Bottle (Acidify W/Nitric Acid)
Secchi Depth (feet or meters)	I Sample Bottle Field Fittered? (Check box if ves)
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Cloud Cover% F or M	Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed
Cloud Cover% F or M Cond-fld (µMHOS/CM@25°C)	% Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed % TCLP (Toxicity Characteristic Leaching Procedure)("TC Regulated Metals)(Use Mason Jar) X Total Recoverable Metals
Cloud Cover % F or M Cond-fld (µMHOS/CM@25°C) Gage Height (ft)	Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)("TC Regulated Metals)(Use Mason Jar) Total Recoverable Metals Aluminum Lead Astimatic and Antimatic
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State of Wisconsin Department of Natural Resources

CHAIN OF CUSTODY	RECORD
LUST PROGRAM	
Form 4400-151	

Rev. 4-93

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Note: Use of this form is voluntary but is requested by the Department pursuant to ch. NR 149, NR 500-540, NR 158 and NR 419, Wis. Adm. Code. Personally identifiable information will be used for no other purpose.

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 - a) Note such damage on the carrier's delivery document before signing. (Failure to do so may prevent the acceptance of any claim.)
 - b) Retain ALL cartons, packaging materials, and merchandise in the same condition as they arrived until further notice from HWCPS.
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 - c) The amount it would cost to repair or replace the said property with material of like kind and quality, with proper deduction for depreciation however caused, or the amount declared by the customer, whichever amount is the lesser.

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- HWCPS liability is limited to the amount of cash value documented on the front of this shipping ticket. Items not packed by the HWCPS can be protected for disappearance only, not for damage.
- Liability covers only the merchandise. For example, a value coveage cannot be purchased for freight costs, carton and packaging material costs, custom packaging costs, or costs related to late delivery.
- 9. HWCPS in no event shall be liable for any consequential, incidental, or special damages which may arise from disappearance, damage, non-delivery, or delay of any shipment. This limitation shall apply to and include, but not be limited to, damages for loss of profit, loss of income, or a loss of bargain.
- Under no circumstances will any claim be considered if received after 6 months from shipping date.

7/93



Tracking Detail

Status:	Delivered	
Delivered on:	Nov 21, 2000 9:1	5 A.M.
Signed by:	BLAIR	
Location:	RECEIVER	
Delivered to:	MADISON, WI, U	IS
Shipped or Billed on:	Nov 20, 2000	

Tracking Number: 1Z 827 434 03 4089 052 4 Service Type: GROUND Weight: 21.00 Lbs

PACKAGE PROGRESS

Date	Time	Location	Activity
Nov 21, 2000	9:15 A.M.	CAPITAL, WI, US	DELIVERY
	6:00 A.M.	CAPITAL, WI, US	DESTINATION SCAN
	5:00 A.M.	CAPITAL, WI, US	ARRIVAL SCAN
	3:25 A.M.	OAK CREEK, WI, US	DEPARTURE SCAN
	12:20 A.M.	OAK CREEK, WI, US	LOCATION SCAN
Nov 20, 2000	11:27 P.M.	OAK CREEK, WI, US	UNLOAD SCAN
	9:47 P.M.	OAK CREEK, WI, US	ARRIVAL SCAN
	6:30 P.M.	OSHKOSH, WI, US	DEPARTURE SCAN
	5:17 P.M.	US	PICKUP MANIFEST
			RECEIVED
	5:10 P.M.	OSHKOSH, WI, US	 ORIGIN SCAN

Tracking results provided by UPS: Nov 22, 2000 11:34 A.M. Eastern Time (USA)

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DNR NORTHEAST REGION

From: Sharon Denzel

Date:____

___Dan Helf ___M. Schuelke ___K. Hutchison __J. Hadzima ___M. Gansberg ___C. Robaidek ___R. Behrens – Walnut St. ___K. Scherer – Walnut Street ___G. Paplham – Walnut Street ___G. Paplham – Walnut Street ___L. Heinen – Mishicot ___L. Braatz – Sturgeon Bay ___N. Kutchery – Peshtigo __J. Schedgick – Oshkosh ___K. O'Connor – Oshkosh J. Moeller - Oshkosh ____B. Barnum ____R. Stoll ____J. Young ____K. Khatri ____M. DeBaker ____J. McDonough ____K. Burton ____J. LeClerc ____L. Jameson ____S. Kempky ____(Payroll) ___C. Schramm

State Laboratory of Hygiene University of Wisconsin Center for Health Sciences 2601 Agriculture DR, Madison WI 53718 R.H. Laessiq, Ph.D., Director D.F. Kurtycz, M.D., Medical Director _____ Environmental Science Section (608) 224-6277 DNR LAB ID 113133790 Inorganic chemistry (#5 of 10 on 11/13/00, unseen) Id: 445014460 Point/Well/..: 001 Field #: S01 Route: RR40 Collection Date: 10/18/00 Time: 14:10 County: 45 (Outagamie) From: N.W. MAUTHE SUPERFUND SITE 725 S OUTAGAMIE ST APPLETON Description: UNTREATED INFLUENT SAMPLE COLLECTED FROM STORAGE TANK To: JENNIFER HUFFMAN Type: Compliance DNR Source: Influent APPLETON Account number: RR019 Collected by: HUFFMAN Date Received: 10/19/00 Labslip #: IL010051 Reported: 11/10/00 _____ ALUMINUM, TOTAL REC, ICP (SW846 6010B) [·] 110. UG/L ARSENIC, TOTAL REC, ICP (SW846 6010B) ND (LOD=12 UG/L)ND (LOD=2 UG/L) CADMIUM, TOTAL REC, ICP (SW846 6010B) CHROMIUM, TOTAL REC, ICP (SW846 6010B) 2900. UG/L CHROMIUM, HEXAVALENT (USGS I-1230-85) *2414 UG/L #1 COPPER, TOTAL REC, ICP (SW846 6010B) 5. UG/L detected between 5 (LOD) and 16 (LOQ) UG/L CYANIDE (EPA 335.4) *0.006 MG/L #2 DIG, TOTAL REC, ICP, LIQUIDS (SW846 3005A) DIG MET LEAD, TOTAL REC, ICP (SW846 6010B) ND (LOD=13 UG/L) MERCURY, AA COLD VAPOR (EPA 245.1) ND (LOD=0.03 UG/L) NICKEL, TOTAL REC, ICP (SW846 6010B) ND (LOD=9 UG/L) ZINC, TOTAL REC, ICP (SW846 6010B) 42. 'UG/L detected between 19 (LOD) and 62 (LOQ) UG/L TEMPERATURE ON RECEIPT ICED C · --- Footnotes ---

Remark #1: SAMPLE RECEIVED PAST HOLDING TIME, RESULT APPROX Remark #2: HOLDING TIME EXCEEDED BY 2 DAYS

CORRESPONDENCE/MEMORANDUM

DATE: October 19, 2000

TO: Mauthe Site Superfund File

FROM: Jennifer Huffman - NER

SUBJECT: Blind Sample Analysis On October 18, 2000

On October 18, 2000, a blind sample, S02, was analyzed on site using the Hach kit by John Stoeger. S02 had been prepared as a blind sample and the purpose of analyzing this was to test the accuracy of both the SLOHs and Hach kits hexavalent chromium analytical method. This was the same blind sample solution out of the same bottle that was used by me on September 13, 2000. The blind sample was previously spiked with a known concentration of hexavalent chromium and provided by Environmental Resource Associates (ERA) to the WDNR. I had asked John Stoeger to analyze the blind sample to see if his interpretation of the concentration with the Hach Kit was different than mine.

The split sample S02 was analyzed on site at approximately 14:10. John found the result of the first analysis was greater than 1.5 mg/l and out of the range of the test kit. So he prepared a split sample and reanalyzed by diluting 10 ml of it with 40 ml distilled water, placing 10 ml of the diluted sample in the test tube, and adding one pillow of reagent. John estimated that the concentration of the diluted sample was 1.0 mg/l using the color disc. This result was multiplied by a factor of 5 that resulted in an estimated concentration of 5.0 mg/l. John performed the dilution and analysis according to directions received from the Hach Company dated August 7, 2000. These results were higher than what I obtained at 4.0 to 4.25 mg/l the previous month with the same sample solution from the same bottle. The SLOH results for the September 13, 2000 sample of S02 was 3.9 mg/l. After John's interpretation, I estimated the dilute concentration of the same vial at 0.8 mg/l. That result multiplied by 5 equals 4.0 mg/l. It appears that John perceives the color after the reagent is added to be slightly darker than my perception. If this were consistently the case, then John's interpretation of the results would tend to be higher than what is present in the sample and overestimate the hexavalent chromium concentration.



CORRESPONDENCE/MEMORANDUM ·

DATE: October 19, 2000

TO: Mauthe Site Superfund File

FROM: Jennifer Huffman - NER

SUBJECT: Influent Characterization Sample Collection on October 18, 2000

The purpose of this memo is to document the collection of an untreated groundwater sample from the storage tank at the Mauthe Pretreatment building and having it analyzed for several metals. This was the fifth of six monthly sampling events to characterize the untreated influent. The sample, S01, was collected directly into the sample jars at the sample tap on the storage tank. The storage tank sample tap was purged of approximately 2 gallons prior to sample collection. On October18, 2000 at 14:10, I collected sample S01 for the following:

- One Quart sample container for total cyanide analysis, preserved with NaOH to a pH greater than 12 and placed in a cooler with ice.
- One 250 ml sample container for total metals analysis of aluminum, arsenic, cadmium, chromium, copper, lead, nickel, and zinc. Sample was preserved with HNO3 to a pH less than 2 and placed in a cooler with ice.
- One 250 ml sample container for mercury analysis, preserved with HNO3 to a pH less than 2 and placed in a cooler with ice.
- One 250 ml sample container for hexavalent chromium analysis and placed in a cooler with ice.

John Stoeger also collected a split sample of S01 at the same time and analyzed it on site for hexavalent chromium using the Hach Test kit. The result from the first analysis was greater than 1.5 mg/l and out of the range of the test kit. So a fresh split sample was reanalyzed by diluting 10 ml of it with 40 ml distilled water, placing 10 ml of the diluted sample in the test tube, and adding one pillow of reagent. An estimated reading of 0.45 mg/l was determined using the color disc. This result was multiplied by a factor of 5 that resulted in an estimated concentration of 2.25 mg/l. The dilution and analysis were performed according to directions received from the Hach Company dated August 7, 2000. These results will be compared to the results from the State Lab of Hygiene.

The analysis request and chain of custody form for sample S01 was filled out and placed in the cooler with the sample containers. The samples were sent at approximately 3:30 pm on October 18, 2000 to the State Lab of Hygiene via overnight courier. The courier was UPS Ground and the tracking number was 1Z8274340340120374. According to the UPS web site tracking information, they were delivered to the SLOH at 3:12 pm on October 19, 2000. If this is true, then the holding time was exceeded for the hexavalent chromium sample.

Attachments

Cc: Gary Edelstein – RR/3 (w/attachments)



State of Wisconsin Laboratory of Hygiene

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Inorganic Test Request Form 4800-15 (R 2/99) Page 1 of 2

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	County # Doute Oods
License #, I.D. Number, Permittor STORET Point, Well of Outhall #)	$LS \land I$ $US \land I$ $US \land I$
Waterbody Number Sample Address or Location	$- \nabla O I_{-} I J_{-} \Delta [\Delta]$
N.w. Mauthe Superfun	d site, 725 S. Outagamie St., Appleton
Sample Point Description. Untreated Influent Sample C	ollected from Storage Tank.
Send Report To	Sample Type (Non WS):
First Name Last Name	SU Surface Water EF Effluent (Treated Wastewater)
Jenniter Huttman	SE Sediment MW Monitoring Well
Address WDNR	LE Leachate SO Soil
3369 W. Brewster St.	TI Tissue
City Appleton WI 54914	Water System Type (Water Supply Use ONLY): Sample Sources (WS ONLY):
Date Results Needed (MM/DD/YYYY) Fax Res? Fax Number	MC Community-Municipality
10-13-2000 No -	U OC ComOther than Municipal E Entry Point
Account Number Collected By	NN Non-Transient Non-Community
ABOLY J. Huttman	Image: Private Sample Type (SUTA ONLT): Image: X Non-Potable Image: Discussion of the state of the st
Lakes Grant or WR Project # Telephone Number	
720832-1803	Is Sample Chlorinated? Yes X No
Begin or Grab Date (MM/DD/YYYY) Begin Time (24-hr clock)	Check any appropriate:
10/18/2000 17.0	S Split B Field Blank E Enforcement 🕰 Y Compliance
End Date - For Composite Samples End Lime (24-hr Clock) - For Only (MWDD/YYYY) Composite Samples Only	Depth of Sample (feet or meters)
Field Parameters - Optional	60 ml Bottle
Sample Temperature - field (°C)	Sample Bottle Field Filtered? (Check box if yes) NO + NO as Nitrogen (Drinking Water) DissOrthophosphate
Ambient Air Temperature - field (°C)	Nitrite (NO) as Nitrogen
DO field (mo/l)	Quart Mason Jar (Also TCLP Metals)
oH (su) field	250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply
Secchi Depth (feet or meters)	Metals Bottle (Acidity W/Nitric Acid)
Cloud Cover®	Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed
	TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar)
Gage Height (ff)	Antimony Magnesium
Flow cfs	Barium* Mercury*
Flow MGD	Boron
Depth to Groundwater (ft)	Cadmium Detassium
Turbidity (NTU)	Chromium, Total
Plastic Quart Bottle	Copper Sodium
Sample Bottle Field Filtered? (Check box if yes) Total Solids Alkalinity, pH & Conductivity	Hardness-as CaCO ₃
Vol. Total Solids PH only (non-Waste or non-Compliance)	Nutrients Bottle (Acidify W/Sulfuric Acid)
	Sample Bottle Field Filtered? (Check box if yes)
(Submit Additional Sample)	Ammonia-N INO ₂ +NO ₃ as Nitrogen
Vol. Susp. Solids U Sulfate Sulfate Sulfide (notify lab before collecting	Total Kjeldahl-N Chemical Oxygen Demand (COD) Please indicate which analyte groups (if any) have been field filtered by checking the
BOD Dissolved sample)	box and noting on the lid of the sample bottle.
BOD Total Low Level	Bacti Bottle
(Submit Additional Sample)	MFFCC Estimate:
BOD Estimate Required mg/l	*Samples for both water chemistry and water bacteriology should be submitted in
Cyanide, Amendable to Chlorination	Separate usites with separate test request torms.
(if Field Filtered, give m)	
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State of Wisconsin Department of Natural Resources

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CHAIN OF CUSTODY RECORD LUST PROGRAM Form 4400-151

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Rev. 4-93

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Note: Use of this form is voluntary but is requested by the Department pursuant to ch. NR 149, NR 500-540, NR 158 and NR 419, Wis. Adm. Code. Personally identifiable information will be used for no other purpose.

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AN INDEPENDENTLY OWNED & OPERATED FRANCHISE

EXPRESS CONV CTRS BLUEMOUND #67 920-830-1774

 10/18/00
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 HOHETDWN
 \$0.99

 TOTAL
 \$0.99

 CASH
 \$1.00

TL/NOTAX \$0.99 TAX PD \$0.00 CHANGE \$0.01 RECEIPT NO. 2-9322

OFFICIAL FUEL SUPPLIER TO THE GREEN BAY PACKERS!





Tracking Detail

Status: In Transit Scheduled Delivery: Oct 19, 2000 Shipped to: MADISON, WI, US Shipped or Billed on: Oct 18, 2000 Tracking Number: 1Z 827 434 03 4012 037 4 Service Type: GROUND Weight: 22.00 Lbs

PACKAGE PROGRESS

Date	Time	Location	Activity
Oct 19, 2000	3:12 P.M.	CAPITAL, WI, US	DELIVERY
-	6:25 A.M.	CAPITAL, WI, US	DESTINATION SCAN
	5:00 A.M.	CAPITAL, WI, US	ARRIVAL SCAN
	3:36 A.M.	OAK CREEK, WI, US	DEPARTURE SCAN
	1:35 A.M.	OAK CREEK, WI, US	LOCATION SCAN
	12:39 A.M.	OAK CREEK, WI, US	UNLOAD SCAN
Oct 18, 2000	10:52 P.M.	OAK CREEK, WI, US	ARRIVAL SCAN
	8:15 P.M.	OSHKOSH, WI, US	DEPARTURE SCAN
	7:25 P.M.	OSHKOSH, WI, US	ORIGIN SCAN
	5:06 P.M.	US	PICKUP MANIFEST RECEIVED

Tracking results provided by UPS: Oct 19, 2000 4:59 P.M. Eastern Time (USA)

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Tracking Detail

Shipped	Status: Delivered on: Signed by: Location: Delivered to: or Billed on:	Delivered Oct 19, 2000 3:12 P.M. WOEHUL OFFICE MADISON, WI, US Oct 18, 2000	
Tracking Number: Service Type: Weight:		1Z 827 434 03 4012 037 4 GROUND 22.00 Lbs	
PACKAGE PRO	OGRESS		
Date	Time	Location	Activity
Oct 19, 2000	3:12 P.M.	CAPITAL, WI, US	DELIVERY
•	6:25 A.M.	CAPITAL, WI, US	DESTINATION SCAN
	5:00 A.M.	CAPITAL, WI, US	ARRIVAL SCAN
	3:36 A.M.	OAK CREEK, WI, US	DEPARTURE SCAN
	1:35 A.M.	OAK CREEK, WI, US	LOCATION SCAN
	12:39 A.M. `	OAK CREEK, WI, US	UNLOAD SCAN
Oct 18, 2000	10:52 P.M.	OAK CREEK, WI, US	ARRIVAL SCAN
	8:15 P.M.	OSHKOSH, WI, US	DEPARTURE SCAN
	7:25 P.M.	OSHKOSH, WI, US	ORIGIN SCAN
	5:06 P.M.	US	PICKUP MANIFEST

Tracking results provided by UPS: Nov 20, 2000 1:25 P.M. Eastern Time (USA)

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JENNIFER HUFFMAN - WDNR 3369 W BREWSTER ST APPLETON WI 54914

ENFORCEMENT

Sample(s) will be disposed of ninety days from the date the sample is reported, unless this form is completed and returned to:

> Attn: Julie Inorganic Chemistry Unit Wis. State Lab. of Hygiene 2601 Agriculture Drive P.O. Box 7996 Madison, WI 53707-7996

Collector: HUFFMAN

District/Area: North East

Phone Number:

Sample Number(s): IL007123

Report date: 09/29/00

Retain sample(s) for days. Retain sample(s) until further notice.

State Laboratory of Hygiene University of Wisconsin Center for Health Sciences 2601 Agriculture Drive, Madison, WI 53707-7996 R.H. Laessig, Ph.D., Director D.F. Kurtycz, M.D., Medical Director Environmental Science Section (608) 224-6277 DNR LAB ID 113133790 Inorganic chemistry Id: 445014460 Point/Well/..: 001 Field #: S01 Route: RR40 Collection Date: 09/13/00 Time: 14:00 County: 45 (Outagamie) From: MW MAUTHE SUPERFUND SITE 725 S OUTAGAMIE ST APPLETON Description: UNTREATED INFLUENT SAMPLE COLLECTED FROM STORAGE TANK To: JENNIFER HUFFMAN Type: Compliance Source: Influent DNR APPLETON Account number: RR019 Collected by: HUFFMAN Enforcement Date Received: 09/14/00 Labslip #: IL007123 Reported: 09/29/00 ALUMINUM, TOTAL REC, ICP (SW846 6010B) detected between 31 (LOD) and 100 (LOQ) UG/L 63. UG/L ARSENIC, TOTAL REC, ICP (SW846 6010B) CADMIUM, TOTAL REC, ICP (SW846 6010B) CHROMIUM, TOTAL REC, ICP (SW846 6010B) CHROMIUM, HEXAVALENT (USGS I-1230-85) ND (LOD=12 UG/L)ND (LOD=2 UG/L)1600. UG/L 1600. UG/L COPPER, TOTAL REC, ICP (SW846 6010B) detected between 5 (LOD) and 16 (LOQ) UG/L 7. · UG/L CYANIDE (EPA 335.4) 0.006 MG/L 1 detected between 0.004 (LOD) and 0.012 (LOQ) MG/L DIG, TOTAL REC, ICP, LIQUIDS (SW846 3005A) LEAD, TOTAL REC, ICP (SW846 6010B) DIG MET ND (LOD=13 UG/L) MERCURY, AA COLD VAPOR (EPA 245.1) ND (LOD=0.03 UG/L)NICKEL, TOTAL REC, ICP (SW846 6010B) 15. UG/L detected between 9' (LOD) and 32 (LOQ) UG/L ZINC, TOTAL REC, ICP (SW846 6010B) ND (LOD=19 UG/L) TEMPERATURE ON RECEIPT ICED С ICP TEST ICP

State of Wisconsin Laboratory of Hygiene

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Inorganic Test Request Form 4800-15 (R 2/99) Page 1 of 2

License #, I.D. Number, Permit or STORET Point, Well o Outfall }	Field Number County # Route Code
445014460 001	<u> </u>
Waterbody Number Sample Address or Location	ind Site, 725 S. Outagamie St., Appletor
Sample Point Description Untreated Influent Sample of	ollected from Storage Tank,
Send Report To	Sample Type (Non WS):
First Name Last Name	SU Surface Water EF Effluent (Treated Wastewater)
Jenniter Huttman	SE Sediment
Address WDNR	SL Sludge LY Lysimeter For Lab Use:
3369 W, Brewster St.	□ TI Tissue □ OI Oil
City Appleton WI 54914	Water System Type (Water Supply Use ONLY): Sample Sources (WS ONLY):
Date Results Needed (MM/DD/YYYY) Fax Res? Fax Number	MC Community-Municipality D Distribution
10-13-2000 No -	OC Com-Other than Municipal E Entry Point
Account Number Collected By	NN Non-Transient Non-Community
RB019 J. Huttman	P Private Sample Type (SDWA ONLY):
Lakes Grant or WR Project # Telephone Number	
920-832-1803	Is Sample Chlorinated? Ves KNO W Raw Water Sample
Begin or Grab Date (MM/DD/YYYY) Begin Time (24-hr clock)	Check any appropriate:
09-13-2000 14:00	S Split B Field Blank E Enforcement X Compliance
End Date - For Composite Samples End Time (24-hr clock) - For	Depth of Sample (feet or meters)
Only (MM/DD/YYYY) Composite Samples Only	F or M
Field Parametera, Ontional	60 ml Bottle
	Sample Bottle Field Filtered? (Check box if yes)
	NO + NO as Nitrogen (Drinking Water) DissOrthophosphate
Ambient Air Temperature- field (°C)	Quart Mason Jar (Also TCLP Metals)
DO field (mg/l)	Oil & Grease pH (Waste Samples Only)
pH (su) field	250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid)
Secchi Depth (feet or meters)	Sample Bottle Field Filtered? (Check box if yes)
Cloud Cover% F or M %	Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed
Cond-fld (µMHOS/CM@25°C)	Total Recoverable Metals
Gage Height (ft)	Aluminum Aluminum Aluminum Magnesium
Flow cfs	Arsenic*
Flow MGD	Barium Mercury Mercury Molybdenum
Depth to Groundwater (ft)	Boron Nickel
	Chromium, Total* Silver
Sample Rattle Field Filtered? (Check bay if yes)	Copper Thallium
Total Solids Alkalinity, pH, & Conductivity	Hardness-as CaCO ₃
□ Vol. Total Solids □ pH only (non-Waste or non-Compliance)	Nutrients Bottle (Acidify W/Sulfuric Acid)
Subp. Solids (2 to high) Color State (2 to high) Color	Sample Bottle Field Filtered? (Check box if yes)
(Submit Additional Sample)	Ammonia-N NO ₂ +NO ₃ as Nitrogen
Total Dissolved Solids Sulfide (notify lab before collecting	Total Kjeldahl-N Chemical Oxygen Demand (COD) Please indicate which analyte groups (if any) have been field filtered by checking the
BOD Dissolved sample)	box and noting on the lid of the sample bottle.
BOD Total Low Level	Bacti Bottle
(Submit Additional Sample)	MFFCC Estimate:
BOD Estimate Required mg/l	*Samples for both water chemistry and water bacteriology should be submitted in
Cyanide, Amendable to Chlorination	separate occues with separate test request forms.
Concorphyl A (Uncorrected or Corrected) (if Field Filtered give m)	Additional parameters
(n Field Filleled, give ini initered)	
	SEP 1 4 00 0 7 1 2 3

Form 4800-15 (2/99) Page 2 of 2

Partial Instructions

See Chapter 4 "Lab Slips" of the *Field Procedures Manual* (see <u>http://intranet/int/es/science/ls/fpm/IV.htm</u>) for further instructions and definitions.

The **ID Number, Permit or STORET and Point/Well fields** should contain the appropriate IDs, left justified, for the program system the sample is for:

Program	ID Number	Example	Pt./Well	Example
Water Supply - Privates	Unique Well #	AA999	Blank	
Water Supply - Publics RAW	PWS ID #	24100567	Well #	002
Water Supply - Publics DIST	PWS ID #	24100567	Blank	
Waste Management	License #	00130	Point ID	AD6
Watershed Management	Permit #	0000030	Outfall #	001
Fish Management & Habitat Protection	Storet #	265013	Blank	
Remediation & Redevelopment	CERCLIS #	006094197	Point ID	001
Remediation & Redevelopment	FID	268181770	Point ID	001
Remediation & Redevelopment	Brownfields #	00000003	Point ID	001

The Sample Address or Location field should be the "entity" name, and depends on the program the sample is for. For example, Facility, Site, Licensee, River/Lake, Owner, etc. Following this information, include the address of the facility or site (if appropriate).

The **Sample Point Description field** should include a description of the point within the property that the sample was collected. For example, secondary settling tank effluent or faucet prior to pressure tank.

The **Route Code** is a four-character code, which will be used to route the sample results from SLOH to whoever wants the results ("Send Report To:" field). These results are routed by the State Laboratory of Hygiene Computer.

First two characters	- Program code: WT, WA, DG, FH, etc.
Third character	- Region code: 1, 2, 4, 6, 7, 8 (see http://intranet/int/es/science/ls/fpm/IV.htm)
Fourth character	- Blank

The Account Number must be completed in order for the samples to be billed to the correct funding source. If you are unsure what the proper account number is refer to http://intranet/int/es/science/ls/Account.htm or contact the DNR Laboratory Coordinator or the State Laboratory of Hygiene.

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Burnett	07	Kewaunee	31	Rusk	55
Calumet	08	La Crosse	32	St. Croix	56
Chippewa	09	Lafayette	33	Sauk	57
Clark	10	Langlade	34	Sawyer	58
Columbia	 11	Lincoln	35	Shawano	59
Crawford	12	Manitowoc '	36	Sheboygan	60
Dane	13	Marathon	37	Taylor	61
Dodge	14	Marinette	38	Trempealeau	62
Door	15	Marquette	39	Vernon	63
Douglas	16	Menominee	40	Vilas	64
Dunn	17	Milwaukee	41	Walworth	65
Eau Claire	18	Monroe	42	Washburn	66
Florence	19	Oconto	43	Washington	67
Fond du Lac	20	Oneida	44	Waukesha	68
Forest	21	Outagamie	45	Waupaca	69
Grant	22	Ozaukee	46	Waushara	70
Green	23	Pepin	47	Winnebago	71
Green Lake	24	Pierce	48	Wood	72

State of Wisconsin Department of Natural Resources

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CHAIN OF CUSTODY RECORD LUST PROGRAM Form 4400-151	
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Rev. 4-93

Note: Use of this form is voluntary but is requested by the Department pursuant to ch. NR 149, NR 500-540, NR 158 and NR 419, Wis. Adm. Code. Personally identifiable information will be used for no other purpose.

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Sample Collectors) Jennifer Huffmar	γ	Title/Work Station/Company	Appleton/w	DNR	hone Number (include	~ 180.5
Property Owner Carol Mauthe	P	ie st, Appleton.	WI Telep	hone Number (include	area code) 21/26/P	
I hereby certify that I received, prope	erly handled, and disposed of	w:	Sample Condition	on Receipt by Labor	atory	
Relinquished by (Signature)	Date/Time 9-13-00/15,00	Received By (Signature)	11:00 -iy-00 Temperature of	temperature blank:		
Relipquished by (Signature) 9-14-00 D	Date/Time R	Received By (Sterawire)	If samples were	received on ice and there	was ice remaining, yo	ou may report the
Relinquished by (Signature)	9/13/00 11.00/h	CALIFY BY (Sic	be substituted i	"received on see". If all fl or a temperature blank.	ie ne was melted, the	temperature of the molt may
D	Sad, Thile	Control for Laboratory Dy (Sig				
Field ID. Date Time Sar Number ¹ Collected Collected Type ²	mple Preserv. Fi Device ³ Type Scre	ield Au	alysis . Lab ID	No /Type of Cracked	improperty Section	Good Other
SOIL 01-1-14:00 CH	HNO3, NO	one Untracted Al.A.	ed, Ch.	product		
301 9/13/00 - 100 GW	* Ice	Influent Cu, P	b, Ni,Zn 12007123			
	I I Ice	Hexa Chic	valent			
	NaOH		oide.			
	Ice	761	al			
	HNO3,	Mer Mer	cury,			
SOD Ulizim Ulionul	II TOO NO	ne Blind Hexa	valent			
<u></u>	None + C &	6 Sample Chro	mium 14007124			
·	<u> </u>					
¹ Sample description must clearly correlate the s ² Specify groundwater, surface water, soil, leacha	sample ID to the sampling I ate, sludge, etc.	location shown on a map.	Type of sampling device; sp	lit spoon, hand auger, me	tal spatula, soil syring	e, etc.
DEPARTMENT USE/OF	PTIONAL FOR SOIL SAN	MPLERS		DEPARTMENT	USE ONLY	
Disposition of unused portion of sample			Split Samples: Offered	1? 🖸 Yes	No (Check	(One)
Laboratory should: Dispose		Retain for _ days	Accepted By:	ed? 🗌 Yes	No (Check	(One)
From sumole to a	in starroo.	tank	Accepted by:		Signature	,, _,
i i om sumple jup o			chain of Cu	.stody #5	70186 162713	

Date 9-22-20

Drinking Water & Groundwater

From: Joan LeClerc

Northeast Region

(920) 492-5844

__C. Verhoeven
__R. Barnum
__M. Schuelke
__K. Scherer
_G. Paplham
_K. Hutchison
_L. Jameson
_J. Everson - DG/2
_S. Helt - DG/2
_L. Heinen
(Manitowoc)

FOR YOUR FILES

__L. Braatz (Sturgeon Bay) __N. Kutchery (Peshtigo) __J. Schedgick (Oshkosh) __K. O'Connor (Oshkosh)

_J. Moeller (Oshkosh)

State Laboratory of Hygiene University of Wisconsin Center for Health Sciences 2601 Agriculture DR, Madison WI 53718 R.H. Laessig, Ph.D., Director D.F. Kurtycz, M.D., Medical Director Environmental Science Section (608) 224-6277 DNR LAB ID 113133790 Inorganic chemistry (#22 of 22 on 09/22/00, unseen) Id: 445014460 Point/Well/..: Field #: S02 Route: RR40 Collection Date: 09/13/00 Time: 14:05 County: 45 (Outagamie) From: NW MAUTHE SUPERFUND SITE 725 S OUTAGAMIE ST APPLETON Description: BLIND SAMPLE To: JENNIFER HUFFMAN Type: Compliance Source: Influent DNR APPLETON Collected by: HUFFMAN Account number: RR019 Enforcement Date Received: 09/14/00 Labslip #: IL007124 Reported: 09/21/00 _____

CHROMIUM, HEXAVALENT (USGS I-1230-85)

3900. UG/L

New and Improved Data System for Lab Data

Lab data is getting a new look AND a new way of being reported to you.

The system used to obtain your laboratory results from the State Laboratory of Hygiene is changing. Your results will be available on the DNR intranet web site. In the future, you will need to provide your DNR User ID on the test request form.* Then, notification of lab results and web link to access them will be e-mailed directly to you. For detailed information on how this works, see explanation at <u>http://intranet/int/es/science/ls/lab_data/LDES_info.htm</u>

- How will I get my results? You will be notified by e-mail with a link to the results on the intranet, if you complete the lab form properly.
- How will I know when there is an unsafe sample? The system has warnings for compliance violations so that an e-mail will go to the regional office.
- What data can I find there now? New data for chemistry samples on this system, check it out!
- Will old data be available too? Yes, once the system is tested, then we will load data back to 1987.
- Can I download data to my PC? Yes, you have several formats to choose from including Excel.
- What is the status of the new system? Undergoing testing. Both old and new systems are running now, but e-mail notification has not been implemented yet.
- When will the old system be turned off? The old system will be shut down once the new system is operating properly.
- Questions Ron Arneson at (608) 264-8949

Changes on Test Request Form

- *Record your DNR User ID (or you won't get your results!)
- Reorganized check off boxes

- Must include sample type
- Route Code -> Program Code + Region

Fill out the form **completely and correctly!** The new forms can be found at *http://intranet/int/at/et/forms/repository/*.

Below are examples of samples and results. Go to http://intranet/int/es/science/ls/ and click on

the "Lal	o Data"	button.			A	В		С	D	E	F	G	Н	1	J	K
				1 F	Primary S	Sample	e St Start	Date/T	ID #	ID Point	# Field #	DNR Para	DNR Parar	Result Val F	esult Am	Result Uni
Saarah	Populto			2 E	BL009885	COMP	LET 08/0	9/2000	NF306			38692	LEPTOTH	0	0	PER ML
Search	Results			3 E	3L009885	COMP	LET 08/0	9/2000	NF306			38694	GALLIONE	0	0	PER ML
				bounne								38695	CRENOTH	0	0	PER ML
INDEX SEARCH	+ WISCONS	IN DEPAR	TMENT O	F NATU	RAL RES	OURCES	ŝ					99118	COLIFORM	0	0	PER 100 N
									r			99118	COLIFORM	0	0	PER 100 N
									9	Help		630	NITROGEN	ND		MG/L
												951	FLUORIDE	0.08	0.08	MG/L
Samples	Found										EX781	136	TEMPERA	ICED		C
											EX781	610	NITROGEN	ND		MG/L
	[Sample									EX781	630	NITROGEN	0.45	0.45	MG/L
Sample/Labslip	Sample	Collected	Primary	та #	Id	Field #	Program	Region	County	Sample	EX781	665	PHOSPHC	0.018	0.018	MG/L
ID	Status	(Start)	Lab	Id #	Point #	TICIG	Code	region	Name	Collector	GS702	136	TEMPERA	ICED		С
		Date		ļ					ļ		GS702	610	NITROGE	ND		MG/L
IL002115	COMPLETE	07/24/2000	State	IC261	IC261	4	WS	North	Oneida	BECKER	GS702	630	NITROGEN	23.9	23.9	MG/L
			Laboratory							2	GS702	665	PHOSPHC	0.026	0.026	MG/L
	and the second s		of Hygiene	un sur tratter	em autoreem		a dun ser un aunie	l	4	-	BERNDT	136	TEMPERA	ICED		С
IL002116	COMPLETE	07/24/2000	State	GS701	GS701	1	WS	North	Oneida	BECKER	BERNDT	610	NITROGEN	ND		MG/L
			Laboratory							-	BERNDT	630	NITROGEN	42	42	MG/L
Π.000117		07/04/0000	C.	L	T-12701		l MIC	br. at	0	DECKED	BERNDT	665	PHOSPHC	0.013	0.013	MG/L
11002117	COMPLETE	07/24/2000	State	EX/81	EX/81	MIX	WD	North	Oneida	BECKER	GP549	136	TEMPERA	ICED		С
			of Hypiene							•	GP549	610	NITROGEN	0.019	0.019	MG/L
Π 002118	COMPLETE	07/24/2000	State	00729	00720	2	WS	North	Oneida	BECKER	GP549	630	NITROGEN	132	132	MG/L
11002118	COWFLETE	0/124/2000	Laboratory	CG728	00/20	2	w S	Norm	Olicida	BECKER.		l	4			30
			of Hygiene									I	Downloa	ad of		
L002119	COMPLETE	07/24/2000	State Laboratory	GS702	GS702	2	ws	North	Oneida	BECKER		S	Search R	Results		

September 19, 2000

INDEX SEARCH WISCONSIN DEPARTMENT OF NATURAL RESOURCES

Sample Detail

Sample/Labslip ID:	IL002115	Sample Status:	COMPLETE	Internet View
Primary Lab:	State Laboratory of Hygiene	Primary Lab Id:	113133790	of Results for a
Id #:	IC261	Id Point #:	IC261	Single Sample
Field #:	4	Start Date/Time:	07/24/2000 12:24	
Date Received by Lab:	07/25/2000	Date Reported by Lab:	08/09/2000	
Account #:	DG023	Account Description:	PRIVATE WATER EVER YTHING	
Program Code:	WS	Region:	North	
County:	Oneida	District:	7	
Sample Location:	SAMPLE TAP AFTER 5 GAL	, Report to Name:	RON BECKER	
Report to Address:	DNR	Report to City, State, Zip:	RHINELANDER	
Sample Collector:	BECKER	Sample Source:	Private System	
Type of Sample (QC):	Standard Sample	File Batch Seq #:	62	
Processed Batch Seq #:	19	Creation Date:	08/09/2000	
Creation User Id:	W19508	Last Update Date:	08/09/2000	
Last Update User Id:	W19508	*		

Sample Results

Storet Parameter Code	Storet Parameter Description	Result Qualifier	Result value	Units	LOD	loq	Reporting Limit	Decimal Places	Sig Figs
<u>136</u>	TEMPERATURE AT LAB	0 "≭" exception, invalid	ICED	C					0
<u>610</u>	NITROGEN NH3-N ISE	2 Below LOD	ND	MG/L	0.013	0.042		3	3
<u>631</u>	NITROGEN NO3+NO2 DISS	1 Valid Result	18.7	MG/L				3	3

Sample Routed To

Routed to Code	Description
GW	Well Construction
WS	Private Water Supply (+ WR)

• Analyses Performed (lab comments/method/QC ID) (3 Rows)

• Infotech Migration Data (0 Rows)



JENNIFER HUFFMAN - WDNR 3369 W BREWSTER ST APPLETON WI 54914

ENFORCEMENT

Sample(s) will be disposed of ninety days from the date the sample is reported, unless this form is completed and returned to:

> Attn: Julie Inorganic Chemistry Unit Wis. State Lab. of Hygiene 2601 Agriculture Drive P.O. Box 7996 Madison, WI 53707-7996

Collector: HUFFMAN

District/Area: North East

Phone Number:

Sample Number(s): IL007124

Report date: 09/21/00

___Retain sample(s) for ___days. ___Retain sample(s) until further notice.

State Laboratory of Hygiene University of Wisconsin Center for Health Sciences 2601 Agriculture Drive, Madison, WI 53707-7996 R.H. Laessig, Ph.D., Director D.F. Kurtycz, M.D., Medical Director Environmental Science Section (608) 224-6277 DNR LAB ID 113133790 Inorganic chemistry Id: 445014460 Point/Well/..: Field #: S02 Rou Collection Date: 09/13/00 Time: 14:05 County: 45 (Outagamie) Route: RR40 From: NW MAUTHE SUPERFUND SITE 725 S OUTAGAMIE ST APPLETON Description: BLIND SAMPLE To: JENNIFER HUFFMAN Type: Compliance DNR Source: Influent APPLETON Account number: RR019 Collected by: HUFFMAN Enforcement Date Received: 09/14/00 Labslip #: IL007124 Reported: 09/21/00 _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

CHROMIUM, HEXAVALENT (USGS I-1230-85)

3900. UG/L

State of Wisconsin Laboratory of Hygiene

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Inorganic Test Request Form 4800-15 (R 2/99) Page 1 of 2

License #, I.D. Number, Permit or STORET Point, Well or Outfall #	Field Number County# Route Code
TIDLITEU Waterbody Number Sample Address or Location	208 - 72 657 - 72
N.W. Marstha Supert	Find site 725 S. Dutroomie St Apoleto
Sample Point Description	and one, the stroking mic stroppictor
Blind Sample	
Send Report To	Sample Type (Non WS):
First Name	USU Surface Water EF Effluent (Treated Wastewater)
Jenniter Huttman	SE Sediment MW Monitoring Well
Address WDNR	LE Leachate So Soil
State Zin	□ TI Tissue □ OI Oil ₩ ○ ₩14 x □ OW Waste
Appleton WI 54914	Water System Type (Water Supply Use ONLY): Sample Sources (WS ONLY):
Date Results Needed (MM/DD/YYYY) Fax Res? Fax Number	MC Community-Municipality
10/13/2000 No -	C ComOther than Municipal E Entry Point Transient Non-Community W Well
Account Number Collected By	NN Non-Transient Non-Community Sample Type (SDWA ONLY):
J. Huttman	- X Non-Potable D Compliance Sample
Lakes Grant or WR Project # Telephone Number	C Confirmation
Pagin or Grab Date (MM/DD/VVVV) Bagin Time (24-br clack)	Is Sample Chlorinated? Yes No
Dg/1z/2000 14:05	Check any appropriate:
End Date - For Composite Samples End Time (24-hr clock) - For	Denth of Sample (feet or meters)
Only (MM/DD/YYYY) Composite Samples Only	For M
Field Parameters - Optional	Sample Bottle Field Filtered? (Check box if yes)
Sample Temperature - field (°C)	NO + NO as Nitrogen (Drinking Water) DissOrthophosphate
Ambient Air Temperature - field (°C)	Quart Mason Jar (Also TCLP Metals)
DO field (mg/l)	Oil & Grease PH (Waste Samples Only)
pH (su) field	250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidify W/Nitric Acid)
Secchi Depth (feet or meters)	Sample Bottle Field Filtered? (Check box if yes)
Cloud Cover %	TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar)
Cond-fld (µMHOS/CM@25°C)	X Total Recoverable Metals
Gage Height (ft)	Antimony Magnesium
Flow cfs	Barium* Manganese
Flow MGD	Beryllium Molybdenum
Depth to Groundwater (ft)	Cadmium* Potassium
Turbidity (NTU)	Calcium Selenium
Plastic Quart Bottle	Corport Corport Thallium
Sample Bottle Field Filtered? (Check box if yes)	Hardness-as CaCO ₃
□ Vol. Total Solids □ Akalinity, pri, a Conductivity □ Vol. Total Solids □ pH only (non-Waste or non-Compliance)	Iron 'Cool to 4°C Only Nutrients Bottle (Acidify W/Sulfuric Acid)
Susp. Solids (≥ 10 mg/l) Chloride TSS Low Level Color	Sample Bottle Field Filtered? (Check box if yes)
(Submit Additional Sample)	Ammonia-N NO ₂ +NO ₃ as Nitrogen
Vol. Susp. Solids Sulfate Sulfate Sulfate Sulfate Sulfate	Total Kjeldahl-N Chemical Oxygen Demand (COD) Please indicate which analyte groups (if any) have been field filtered by checking the
BOD Dissolved sample)	box and noting on the lid of the sample bottle.
BOD Total Low Level	Bacti Bottle
(Submit Additional Sample) BOD Estimate Bequired mo/l	MFFCC Estimate:
Cyanide, Total	Samples for both water chemistry and water bacteriology should be submitted in separate bottles with separate test request forms.
Cyanide, Amendable to Chlorination Chlorophyl A (Uncorrected or Corrected)	Additional parameters
(if Field Filtered, give ml filtered)	Scald MOOTLOA
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Fish Management & Habitat Protection	Storet #	265013	Blank	
Remediation & Redevelopment	CERCLIS #	006094197	Point ID	001
Remediation & Redevelopment	FID	268181770	Point ID	001
Remediation & Redevelopment	Brownfields #	00000003	Point ID	001

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Buffalo	06	Kenosha	30	Rock	54
Burnett	07	Kewaunee	31	Rusk	55
Calumet	08	La Crosse	32	St. Croix	56
Chippewa	09	Lafayette	33	Sauk	57
Clark	10	Langlade	34	Sawyer	58
Columbia	11	Lincoln	35	Shawano	59
Crawford	12	Manitowoc	36	Sheboygan	60
Dane	13	Marathon	37	Taylor	61
Dodge	14	Marinette	38	Trempealeau	62
Door	15	Marquette	39	Vernon	63
Douglas	16	Menominee	40	Vilas	64
Dunn	17	Milwaukee	41	Walworth	65
Eau Claire	18	Monroe	42	Washburn	66
Florence	19	Oconto	43	Washington	67
Fond du Lac	20	Oneida	44	Waukesha	68
Forest	21	Outagamie	45	Waupaca	69
Grant	22	Ozaukee	46	Waushara	70
Green	23	Pepin	47	Winnebago	71
Green Lake	24	Pierce	48	Wood	72

State of Wisconsin Department of Natural Resources

CHAIN OF CUSTODY RECORD
LUST PROGRAM
Form 4400-151

Rev. 4-93

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Note: Use of this form is voluntary but is requested by the Department pursuant to ch. NR 149, NR 500-540, NR 158 and NR 419, Wis. Adm. Code. Personally identifiable information will be used for no other purpose.

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Sample Collector(s) Jenniter Huffma	<u></u>	Title/Work Station/Company	/Appleton/w	DNR	Telephone Number (inclu	de area code) ~/80.3
Property Owner Mary M	~	Property Address	n'é St Amletra		Telephone Number (inclu	ide area code)
I hereby certify that I received, pr	operly handled, and dispos	sed of these samples as noted belo		Sample Co	ndmion on Receipt by Lab	Korahory
Relinquished by (Signature)	Date/Time	Received By (Signature)	11:00	LAF	IORATORY USE ONLY	
kinder Huffman	9-13-00/15:00	an Liberta	7-14-00 Temperature o	f tomperature blank:		
Nam J. M. T. 11:00	alcalon Man	Received By (Sisterative)	If samples wern	received on ice and "received on ice". I	there was ice remaining, fall the no was melled it	you may report the
Relinquished by (Signature)	Date/Time	Received for Laboratory By (Si	gnature) be substituted	for a temperature bl	ank.	
\mathcal{D}						
Field ID Date Time	Sample Preserv.	Field A	nalysis Lab ID	No./Type of C	racked Improperly	Good Other
Number Collected Collected Typ	HN07	Alone Untrated A/A	Type Number	Containers //	Jroken Sealed	Condition Comments
SOI 9/13/00 17.00 GI	N * Ice	Influent Cu. F	2. Ni Zn 12007123			
	Tag	Hexa	walent			
		- Chr	omium			
	I Ice		niae,			
	HNO3,	Mei	curv,			
	V V Ice	V V to	a			
502 9/13/00 14:05Unk	nout None Ice	Vone Blind Hexa	Nalent			
		<u> </u>				
		·,				
						L
¹ Sample description must clearly correlate th ² Specify groundwater, surface water, soil, lea	e sample ID to the sampling chate, sludge, etc.	ng location shown on a map.	'Type of sampling device; sp	olit spoon, hand augo	er, metal spatula, soil syrir	nge, etc.
DEPARTMENT USE	OPTIONAL FOR SOIL S	SAMPLERS		DEPARTN	AENT USE ONLY	
Disposition of unused portion of sample			Split Samples: Offered	1? 🖸 Yes	No (Chec	ck One)
Laboratory should: Dispo	ose	Retain for days	Accept	ed? 🛛 Yes	No (Chee	ck One)
	n etainer	J Other	Accepted By:		Signature	
From Sample Tap	ori storage	Tarin,	Chain of Cu	istody #	3 98186	
				/	162713	

CORRESPONDENCE/MEMORANDUM

DATE: September 15, 2000

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TO: Mauthe Site Superfund File

FROM: Jennifer Huffman - NER

SUBJECT: Influent Characterization Sample Collection on September 13, 2000

The purpose of this memo is to document the collection of an untreated groundwater sample from the storage tank at the Mauthe Pretreatment building and having it analyzed for several metals. This was the fourth of six monthly sampling events to characterize the untreated influent. The sample, S01, was collected directly into the sample jar at the sample tap on the storage tank. The storage tank sample tap was purged of approximately 2 gallons prior to sample collection. On September 13, 2000 at 14:00, I collected sample S01 for the following:

- One Quart sample container for total cyanide analysis, preserved with NaOH to a pH greater than 12 and placed in a cooler with ice.
- One 250 ml sample container for total metals analysis of aluminum, arsenic, cadmium, chromium, copper, lead, nickel, and zinc. Sample was preserved with HNO3 to a pH less than 2 and placed in a cooler with ice.
- One 250 ml sample container for mercury analysis, preserved with HNO3 to a pH less than 2 and placed in a cooler with ice.
- One 250 ml sample container for hexavalent chromium analysis and placed in a cooler with ice.

I also collected a split sample of S01 at the same time and analyzed it on site for hexavalent chromium using the Hach Test kit. The result from the first analysis was greater than 1.5 mg/l and out of the range of the test kit. So a fresh split sample was reanalyzed by diluting 10 ml of it with 40 ml distilled water, placing 10 ml of the diluted sample in the test tube, and adding one pillow of reagent. An estimated reading of 0.4 mg/l was determined using the color disc. This result was multiplied by a factor of 5 that resulted in an estimated concentration of 2.0 mg/l. The dilution and analysis were performed according to directions received from the Hach Company dated August 7, 2000. These results will be compared to the results from the State Lab of Hygiene.

A second sample, S02, was also sent to the SLOH for analysis of hexavalent chromium only. A split sample of this was also analyzed on site using the Hach kit. S02 had been prepared as a blind sample and the purpose of analyzing this was to test the accuracy of both the SLOHs and Hach kits hexavalent chromium analytical method. The blind sample was previously spiked with a known concentration of hexavalent chromium and provided by Environmental Resource Associates (ERA) to the WDNR. The actual concentration of the blind sample at the time of analysis with the Hach kit was only known by Charlene Khazae (RR Program Chemist). The SLOH also does not know the concentration of the blind sample. Charlene had recommended that blind samples be analyzed by the SLOH and the Hach kit to determine the accuracy of both analyses. Previous sample results from the Hach kit and SLOH collected in June and July of this year were not agreeable. The SLOHs results were typically twice as high as the Hach kit results.



The split sample S02 was analyzed on site on September 13, 2000 at approximately 14:05. The result of the first analysis was greater than 1.5 mg/l and out of the range of the test kit. So a fresh split sample was reanalyzed by diluting 10 ml of it with 40 ml distilled water, placing 10 ml of the diluted sample in the test tube, and adding one pillow of reagent. An estimated reading of 0.8 to 0.85 mg/l was determined using the color disc. This result was multiplied by a factor of 5 that resulted in an estimated concentration of 4.0 to 4.25 mg/l. The dilution and analysis were performed according to directions received from the Hach Company dated August 7, 2000. These results will be compared to the results from the State Lab of Hygiene.

On September 14, 2000 Charlene faxed me a copy of the documentation of the spiked concentration of the blind sample provided by ERA. The certified value was 4.00 mg/l with performance acceptance limits of 3.32 to 4.68 mg/l. The concentration of the Hach kit was from 4.0 to 4.25 mg/l and appears to be agreeable with the certified value and its acceptance limits. SLOH results for the blind sample are not yet available.

The analysis request and chain of custody forms for samples S01 and S02 collected on. September 13, 2000 were filled out and placed in the cooler with the samples. The samples were sent at approximately 3:15 pm on September 13, 2000 to the State Lab of Hygiene via overnight courier. The courier was UPS Ground and the tracking number was 1Z8274340340178189. They were delivered to the SLOH at 9:16 am on September 14, 2000.

Attachments

Cc: Gary Edelstein – RR/3 (w/attachments) Charlene Khazae – RR/3 (w/o attachments)

State of Wisconsin Department of Natural Resources

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CHAIN OF CUSTODY	DECORD								
CHAIR OF COSTODI	RECORD								
LIST DROODAM									
LUSI PROGRAM									
Form 4400-151									

Rev. 4-93

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Note: Use of this form is voluntary but is requested by the Department pursuant to ch. NR 149, NR 500-540, NR 158 and NR 419, Wis. Adm. Code. Personally identifiable information will be used for no other purpose.

Sample Collectors) Jennifer Huffman							T	ille/Work Station/Company Hydrogeologist/Appleton/WDNR 720-832-1803															
Property Owner Carol Mauthe						P	725 S. Outagamie St. Appleton. WI Telephone				ae Numb OVU	er (inclu	ide area co $ a /a $	b/e									
I he	reby certify	that l	l receiv	ed, pro	operly	hand	led, and dis	posed	of these	sampl	es as no	oted belo	w:		· · · · ·	Sampl	e Cond	HOB C	n Receip		ormory		
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State of Wisconsin Laboratory of Hygiene

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Inorganic Test Request Form 4800-15 (R 2/99) Page 1 of 2

License #, I.D. Number, Permit or STORET Point, Well or Outfall	Field Number County # Route Code
Waterbody Number Sample Address or Location	and site 775 5 Automorie St. Apolator
Sample Point Description	ind site, the situadamic siting with
Untreated Influent Sample c	ollected from Storage Tank.
Send Report To	Sample Type (Non WS):
First Name	SU Surface Water EF Effluent (Treated Wastewater)
Jenniter Huttman	SE Sediment MW Monitoring Well
3369 W, Brewster St.	LE Leachate SO Soil 2/Priority TI Tissue OI Oil
City Appleton WI 54914	Water System Type (Water Supply Use ONLY): Sample Sources (WS ONLY):
Date Results Needed (MM/DD/YYYY) Fax Res? Fax Number	
10-13-2000 No	OC Com. Other than Municipal E Entry Point TN Transient Non-Community W Well
Account Number Collected By	NN Non-Transient Non-Community Sample Type (SDWA ONLY):
Lakes Creater WP Project # Tolophone Number	X Non-Potable D Compliance Sample
920-832-180.3	□ C Contirmation
Begin or Grab Date (MM/DD/YYYY) Begin Time (24-hr clock) 0.09 - 1.3 - 2000 1.44100	Check any appropriate:
End Date - For Composite Samples Only (MM/DD/YYYY) End Time (24-hr clock) - For Composite Samples Only	Depth of Sample (feet or meters) F or M
Field Parameters - Optional	60 ml Bottle
Sample Temperature - field (°C)	 Sample Bottle Field Filtered? (Check box if yes) NO + NO as Nitrogen (Drinking Water) DissOrthophosphate
Ambient Air Temperature- field (°C)	Nitrite (NO) as Nitrogen Diss. Silica
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals)
pH (su) field	250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply
Secchi Depth (feet or meters)	Sample Bottle Field Filtered? (Check box if yes)
Cloud Cover% F or M%	Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)("TC Regulated Metals)(Use Mason Jar)
Cond-fld (µMHOS/CM@25°C)	Total Recoverable Metals
Gage Height (ft)	Aluminum Aluminum Aluminum Aluminum Aluminum Aluminum Aluminum
Flow cfs	Arsenic* Manganese
Flow MGD	Beryllium Molybdenum
Depth to Groundwater (ft)	
Turbidity (NTU)	Calcium Selenium
Plastic Quart Bottle	Chromium, Hexavalent ¹ Sodium
Sample Bottle Field Filtered? (Check box if yes)	Hardness-as CaCO ₃
U Vol. Total Solids U Alkalinity, pH, & Conductivity	Iron Cool to 4°C Only
U Susp. Solids (≥ 10 mg/l) U Chloride	Sample Bottle Field Filtered? (Check box if yes)
(Submit Additional Sample) Eluoride	Ammonia-N NO ₂ +NO ₃ as Nitrogen
Total Dissolved Solids Sulfate Sulfate Sulfate Sulfate Sulfate	Total Kjeldahl-N Chemical Oxygen Demand (COD) Please indicate which analyte groups (if any) have been field filtered by checking the
BOD Dissolved sample) BOD, Total (> 6 mg/l) Turbidity	box and noting on the lid of the sample bottle.
BOD Total Low Level	Bacti Bottle
(Submit Additional Sample) BOD Estimate Required mo/l	MFFCC Estimate:
Cyanide, Total	-Samples for both water chemistry and water bacteriology should be submitted in separate bottles with separate test request forms.
Cyanide, Amendable to Chlorination	Additional parameters
(if Field Filtered, give ml filtered)	

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State of Wisconsin Laboratory of Hygiene

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Inorganic Test Request Form 4800-15 (R 2/99) Page 1 of 2

License #, I.D. Number, Permit or STORET Point, Well or Outfall #	Field Number County # Route Code
445014460	SO2 45 RR4
Waterbody Number Sample Address or Location	
N.W. Mauthe Super	fund site, 725 S. Dutagamie St. Applet
Sample Point Description	
Blind Sample	
Send Report To	Sample Type (Non WS):
	SU Surrace water I EF Emilient (Treated Wastewater) NP Storm Water IF Influent (Untreated Wastewater)
Jenniter Huttman	SE Sediment MW Monitoring Well
Address WDNR	LE Leachate So Soil
City State Zin	
"Appleton wi 54914	Blind Sample
Date Results Needed (MM/DD/YYYY) Fax Res? Fax Number	Water System Type (Water Supply Use ONLY): Sample Sources (WS ONLY):
10/13/2000 $10/10$	OC ComOther than Municipal E Entry Point
Account Number Collected By	TN Transient Non-Community W Well
J. Huffman	P Private Sample Type (SDWA ONLY):
Lakes Grant or WR Project # Telephone Number	
920-832-1803	Is Sample Chlorinated? TYes X No W Raw Water Sample
Begin or Grab Date (MM/DD/YYYY) Begin Time (24-hr clock)	Check any appropriate:
09/13/2000 14:05	S Split B Field Blank E Enforcement X Y Compliance
End Date · For Composite Samples End Time (24-hr clock) · For	Depth of Sample (feet or meters)
Only (MM/DD/YYYY) Composite Samples Only	F or M
Field Parameters - Ontional	60 mt Bottle
	Sample Bottle Field Filtered? (Check box if yes)
	_ NO + NO as Nitrogen (Drinking Water) □ DissOrthophosphate
	Quart Mason Jar (Also TCLP Metals)
	_ U Oil & Grease U pH (Waste Samples Only)
pH (su) field	Metals Bottle (Acidify W/Nitric Acid)
Secchi Depth (feet or meters)	Sample Bottle Field Filtered? (Check box if yes) Low Level Metals (e.g., Surface Waters by ICP(MS), Note: Special Bottles Needed
Cloud Cover%	TCLP (Toxicity Characteristic Leaching Procedure)("TC Regulated Metals)(Use Mason Jar)
Cond-fld (µMHOS/CM@25°C)	Total Recoverable Metals Aluminum Lead
Gage Height (ft)	Antimony Magnesium
Flow cfs	- Barium* Manganese
Flow MGD	Beryllium Dolybdenum
Depth to Groundwater (ft)	
Turbidity (NTU)	- Calcium Selenium
Plastic Quart Bottle	Chromium, Hexavalent ¹
Sample Bottle Field Filtered? (Check box if yes)	☐ Copper ☐ Thallium ☐ Hardness-as CaCO ₂
U Total Solids I Alkalinity, pH, & Conductivity	I fron ¹ Cool to 4°C Only
□ Susp. Solids (≥ 10 mg/l) □ Chloride	Sample Bottle Field Filtered? (Check box if yes)
TSS Low Level Submit Additional Sample) Fluoride	
□ Vol. Susp. Solids □ Sulfate	Total Kjeldahl-N COD COD
BOD Dissolved Solids Line Suitide (notify lab before collecting sample)	Please indicate which analyte groups (if any) have been field filtered by checking the box and noting on the lid of the sample bottle.
BOD ₅ Total (≥ 6 mg/l)	Bacti Bottle
(Submit Additional Sample)	MFFCC Fecal Strep.
BOD Estimate Required mg/l	MERCU Estimate: /
U Cyanide, Total	separate bottles with separate test request forms.
Chlorophyl A (Uncorrected or Corrected)	Additional parameters



Tracking Detail

Status:	Delivered			
Delivered on:	Sep 14, 2000 9:16 A.M.			
Delivered to:	BLAIR			
Location:	OFFICE			
Shipped to:	MADISON, WI, US			
Shipped or Billed on:	Sep 13, 2000			

Tracking Number: 1Z 827 434 03 4017 818 9 Service Type: GROUND Weight: 21.00 Lbs

PACKAGE PROGRESS

Date	Time	Location	Activity
Sep 14, 2000	9:16 A.M.	CAPITAL, WI, US	DELIVERY
	5:12 A.M.	CAPITAL, WI, US	DESTINATION SCAN
	2:00 A.M.	CAPITAL, WI, US	ARRIVAL SCAN
	12:41 A.M.	OAK CREEK, WI, US	DEPARTURE SCAN
Sep 13, 2000	11:09 P.M.	OAK CREEK, WI, US	LOCATION SCAN
	5:27 P.M.	US	PICKUP MANIFEST
	5:20 P.M.	OSHKOSH, WI, US	ORIGIN SCAN

Tracking results provided by UPS: Sep 15, 2000 9:40 A.M. Eastern Time (USA)

NOTICE: UPS authorizes you to use UPS tracking systems solely to track shipments tendered by or for you to UPS for delivery and for no other purpose. Any other use of UPS tracking systems and information is strictly prohibited.

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DNR B REMD AND REDEVEL ENVIRONMENTAL RESOURCE ASSOCIATES The Industry Standard	a 608 267 764 <u>6</u>	09/14/00 10:28 D :02/02 NO:11 Quality Control Standards	4
Wisconsin DNR			
Catalog No. 093 Custom S	Standard	Lot No. 0830-00-01	
Parameter	Certified Value	Performance Acceptance	
Hexavalent Chromium	4.00	3.32 - 4.68	
The Performance Acceptance Limit (PAt, USEPA methodologies commonly used to PALIM is based on snalytical verification of	m) is listed as a guideline for an a o datermine this parameter and ck data generated by ERA, independi	cceptable analytical result given the limitations of the isely approximates the 95% confidence interval. The int referee laboratory results and data from USEPA	

methods, WP, WS and CLP interlaboratory studies. If your result falls outside of the PALTM, ERA recommenda that you investigate potential sources of error in your preparation and/or analytical procedures. For further technical assistance, call ERA at 1-800-372-0122.

Expiration date: 11/2000

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Preservative: This sample is not preserved.

Production Note: The standard is made from Potassium Dichromate (K2Cr2O7).

Standard Preparation Instructions: None required. This sample is ready for preparation and analysis as received.

Long Term Storage: Store at 4±2°C.

TRA	CEABILITY DATA SUM	MARY
Parameter	ERA Lot Number	% Traceability*
Hexavalent Chromium	0830-00-01	98.2
This standard was analytic Chromium.	cally traced to NIST Standard	Reference Material 3112
*%Traceability = ((%Reco	very ERA standard)/(%Recove	ary NIST Senderd))*105

1-800-372-0122 www.eraqc.com



September 6, 2000

Jennifer Huffman Wisconsin DNR Work Site 3369 West Brewster Street Appleton, WI 54914 DEGEIVED SEP 8 2000 WDNR NER-APPLETON

Dear Jennifer:

Enclosed please find the set of whole volume performance evaluation samples ordered for you by Charlene Khazae. The certified values for these samples are being mailed to Charlene's attention in Madison. The ERA project number corresponding to these samples is 0830-00-01.

If you have any questions or if we can be of any further assistance, please do not hesitate to call me.

Sincerely,

Anthony J. Ciacco Chemist

enclosures ajc



QUALITY CONTROL STANDARDS / PROFICIENCY TESTING STUDIES





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ENVIRONMENTAL RESOURCE ASSOCIATES

PACKING LIST

Invoice No. 219499

PO NO. RRPA019

5540 MARSHALL STREET ARVADA, COLORADO 80002 303-431-8454 1-800-ERA-0122

> SHIP VIA: FEDEX ECONOMY 2 DAY PROJ NUM: 08300001

Sold To:	WISCONSIN DNR		Ohin Tax	WISC	ONSIN	DNR		
	RR/3		Ship 10:	WORK	SITE			
	PO BOX 7921			3369	WEST	BREWSTER	STREET	
	MADISON, WI	53707		APPLI	ETON,	WI	54914	
	ACCOUNTS PAYABLE			JENN	IFER I	HUFFMAN		
	608-267-0543							

Date 9/06	/00	Purchase Order Number	FOB		Terms	Customer Number
77007	/00	KKI AUT >	Arvada, Colorado		Net 30 Days	10070 01
Quantity	网络白白金金	Description		Lot Number		N. S. S. S. S. S.
1	092 CUSTOM HEX CR	CUSTOM INORGANIC S SAMPLES 2 X 500ML PO DECEN SEP 8 20 WDNR NER-APPL	STANDARD DLYS	1		

State Laboratory of Hygiene University of Wisconsin Center for Health Sciences 2601 Agriculture DR, Madison WI 53718 R.H. Laessig, Ph.D., Director D.F. Kurtycz, M.D., Medical Director Environmental Science Section (608) 224-6277 DNR LAB ID 113133790 Inorganic chemistry (#14 of 14 on 10/02/00, unseen) Id: 445014460 Point/Well/..: 001 Field #: S01 Route: RR40 Collection Date: 09/13/00 Time: 14:00 County: 45 (Outagamie) From: MW MAUTHE SUPERFUND SITE 725 S OUTAGAMIE ST APPLETON Description: UNTREATED INFLUENT SAMPLE COLLECTED FROM STORAGE TANK To: JENNIFER HUFFMAN Type: Compliance DNR Source: Influent APPLETON Account number: RR019 Collected by: HUFFMAN Enforcement Date Received: 09/14/00 Labslip #: IL007123 Reported: 09/29/00 ALUMINUM, TOTAL REC, ICP (SW846 6010B) 63. UG/L detected between 31 (LOD) and 100 (LOQ) UG/L $\,$ ARSENIC, TOTAL REC, ICP (SW846 6010B) ND (LOD=12 UG/L) CADMIUM, TOTAL REC, ICP (SW846 6010B) ND (LOD=2 UG/L)CHROMIUM, TOTAL REC, ICP (SW846 6010B) 1600. UG/L CHROMIUM, HEXAVALENT (USGS I-1230-85) 1600. UG/L COPPER, TOTAL REC, ICP (SW846 6010B) 7. UG/L detected between 5 (LOD) and 16 (LOQ) UG/L 0.006 CYANIDE (EPA 335.4) MG/L detected between 0.004 (LOD) and 0.012 (LOQ) MG/L DIG, TOTAL REC, ICP, LIQUIDS (SW846 3005A) DIG MET LEAD, TOTAL REC, ICP (SW846 6010B) ND (LOD=13 UG/L)ND (LOD=0.03 UG/L) MERCURY, AA COLD VAPOR (EPA 245.1) NICKEL, TOTAL REC, ICP (SW846 6010B) 15. UG/L detected between 9 (LOD) and 32 (LOQ) UG/L $\,$ ND (LOD=19 UG/L) ZINC, TOTAL REC, ICP (SW846 6010B) TEMPERATURE ON RECEIPT ICED C ICP ICP TEST



September 6, 2000

Charlene Khazae Wisconsin DNR 101 South Webster Street Madison, WI 53707 Dear Charlene:

Enclosed please find the certification documentation for the set of whole volume performance evaluation samples that you recently ordered. The samples were shipped on September 6, 2000 via FedEx Economy service to Jennifer Huffman at the DNR work site. The ERA project number corresponding to these samples is 0830-00-01.

Thank you for choosing ERA for this project. If you have any questions or if we can be of any further assistance, please do not hesitate to call me.

Sincerely,

Anthony J. Ciacco Chemist

encloaurea ajc

Post-it* Fax Note 7671	Date 9/14 pages 2
Tennifer Huffman	FromChar
CONDER RR	CODNR RR/3
Par 832 - 1803	Phone 18 - 267 - 0543
5920-832-1800	Fat 008-267-7646



QUALITY CONTROL STANDARDS / PROFICIENCY TESTING STUDIES



5540 Marshall St., Arvada, CO 80002 1-800-372-0122 fax 303-421-0159 info@eraqc.com www.eraqc.com

501 Real Hep Chrome Hach Kit = 501 2 pm Real Samples 502 2:05 pm Blind Sample $1^{s+}Run > 1.5$

Znd Diluted Blind Sample = 0,85 mgl x 5 \$,25

514.5







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Midwest Contract Operations. Inc.

FACILITY ALARM RESPONSE LOG SHEET GROUNDWATER PRETREATMENT SYSTEM N.W. Mauthe Superfund Site

Operator Name: Date:		Arrival Time: Departure Time:		
Time of Alarm:		-		
Alarm Message:	 SYSTEM ALERT SYSTEM SHUTDOWN 			
Onsite Alarm Indica	tors: (i.e. Manhole Pump 1 alarm light c	on, PLC flashing "SYSTEM SHUTD	OWN")	
Activities Performed	i: (to address alarm condition)			
			1 1	
Notification Require	d: (i.e. call City of Appleton)			
Persons Notified an	d When: (name, date and time of conta	ct)		
Problem Areas and	Recommended Solutions (i.e. false ala	rm because of, could be fixed b	ру)	
		······································		

MIDWEST CONTRACT OPERATIONS, INC.

P.O. Box 418 Menasha, WI 54952-0418 Phone: 920-751-4299 Fax: 920-751-4284



JENNIFER HUFFMAN - WI DNR 3369 W BREWSTER ST APPLETON WI 54914

ENFORCEMENT

Sample(s) will be disposed of ninety days from the date the sample is reported, unless this form is completed and returned to:

> Attn: Julie Inorganic Chemistry Unit Wis. State Lab. of Hygiene 2601 Agriculture Drive P.O. Box 7996 Madison, WI 53707-7996

Collector: HUFFMAN

District/Area: North East

Phone Number:

Sample Number(s): IL001875

Report date: 08/04/00

____Retain sample(s) for ____days. Retain sample(s) until further notice.

State Laboratory of Hygiene University of Wisconsin Center for Health Sciences 2601 Agriculture Drive, Madison, WI 53707-7996 R.H. Laessig, Ph.D., Director D.F. Kurtycz, M.D., Medical Director -----Environmental Science Section (608) 224-6277 DNR LAB ID 113133790 Inorganic chemistry Id: 445014460 Point/Well/..: 001 Field #: S1 Route: RR40 Collection Date: 07/20/00 Time: 14:10 County: 45 (Outagamie) From: N.W. MAUTHE SUPERFUND SITE 725 S OUTAGAMIE ST APPLETON Description: INFLUENT SAMPLE COLLECTED AFTER STORAGE TANK, NO TREATMENT TO: JENNIFER HUFFMAN Type: Compliance Source: Influent DNR APPLETON Account number: RR019 Collected by: HUFFMAN Enforcement Date Received: 07/21/00 Labslip #: IL001875 Reported: 08/04/00 ------------CHROMIUM, TOTAL REC, ICP (SW846 6010B) CHROMIUM, HEXAVALENT (USGS I-1230-85) 2700. UG/L 2800. UG/L CYANIDE (EPA 335.4) ND (LOD=0.004 MG/L)DIG, TOTAL REC, ICP, LIQUIDS (SW846 3005A) DIG MET (qualitative)

TEMPERATURE ON RECEIPT

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State of Wisconsin Laboratory of Hygiene

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Inorganic Test Request Form 4800-15 (R 2/99) Page 1 of 2

License #, I.D. Number, Permit or STORET Point, Well or Outfall #	Field Number County # Route Code						
445014460 001	SI 45 RR4_						
Waterbody Number Sample Address or Location	I CH THE ALL I CH M. II						
N,W. Mauthe Supert	und Dite, 125, S. Outagamiest, Itppleton						
Sample Point Description	ter Starge Tank on treatment						
Send Report To	Sample Type (Non WS):						
First Name Last Name	SU Surface Water EF Effluent (Treated Wastewater)						
Jennifer Huffman	Image: NP Storm Water Image:						
Address WDNR	SL Sludge LY Lysimeter For Lab Use:						
3369 W, Brewster St.							
City Appleton WI 54914	Water System Type (Water Supply Use ONLY): Sample Sources (WS ONLY):						
Date Results Needed (MM/DD/YYYY) Fax Res? Fax Number	MC Community-Municipality						
8-13-00 Yes 9208321800	OC ComOther than Municipal E Entry Point						
Account Number Collected By	NN Non-Transient Non-Community Sample Type (SDWA ONLY):						
ABULT JITUHMAN	X Non-Potable						
920-832-1803	L C Confirmation						
Begin or Grab Date (MM/DD/YYYY) Begin Time (24-hr clock)	Is Sample Chlorinated? Yes No I Investigation						
07/20/2000 14:10	Split B Field Blank E Enforcement X Y Compliance						
End Date - For Composite Samples End Time (24-hr clock) - For	Depth of Sample (feet or meters)						
Composite Samples Only	F or M						
Field Parameters - Optional	60 ml Bottle						
Sample Temperature - field (°C)	 Sample Bottle Field Filtered? (Check box if yes) NO + NO as Nitrogen (Drinking Water) DissOrthophosphate 						
Ambient Air Temperature - field (°C)	Nitrite (NO) as Nitrogen						
DO field (mg/l)	Quart Mason Jar (Also TCLP Metals) Oil & Grease Dil & Grease						
pH (su) field	250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply						
Secchi Depth (feet or meters)	Sample Bottle Field Filtered? (Check box if yes)						
Cloud Cover% F or M%	Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar)						
Cond-fld (µMHOS/CM@25°C)	Total Recoverable Metals						
Gage Height (ft)							
Flow cfs	Arsenic* Manganese						
Flow MGD	Beryllium Molybdenum						
Depth to Groundwater(ft)							
Turbidity (NTU)	Calcium Selenium						
Plastic Quart Bottle	Chromium, Hexavalent ¹ Sodium						
Sample Bottle Field Filtered? (Check box if yes)	Hardness-as CaCO ₃						
Vol. Total Solids PH only (non-Waste or non-Compliance)	Nutrients Bottle (Acidify W/Sulfuric Acid)						
Susp. Solids (≥ 10 mg/l) Chloride TSS Low Level Color	Sample Bottle Field Filtered? (Check box if yes)						
(Submit Additional Sample) Vol. Susp. Solids Sulfate	Ammonia-N NO ₂ +NO ₃ as Nitrogen						
Total Dissolved Solids Sulfide (notify lab before collecting sample)	Please indicate which analyte groups (if any) have been field filtered by checking the						
$\square BOD_{5} Total (\geq 6 mg/l) \qquad \square Turbidity$	box and noung on the lid of the sample bottle.						
U BOD Total Low Level (Submit Additional Sample)	□ MFFCC* □ Fecal Strep.*						
BOD Estimate Required mg/l	MFFCC Estimate: *Samples for both water chemistry and water bacteriology should be submitted in						
Cyanide, Total	separate bottles with separate test request forms.						
Chlorophyl A (Uncorrected or Corrected)	Additional parameters						
(If Field Filtered, give mi filtered)	/////01875						

Form 4800-15 (2/99) Page 2 of 2

Partial Instructions

See Chapter 4 "Lab Slips" of the *Field Procedures Manual* (see <u>http://intranet/int/es/science/ls/fpm/IV.htm</u>) for further instructions and definitions.

The **ID Number, Permit or STORET and Point/Well fields** should contain the appropriate IDs, left justified, for the program system the sample is for:

Program	ID Number	Example	Pt./Well	Example
Water Supply - Privates	Unique Well #	AA999	Blank	
Water Supply - Publics RAW	PWS ID #	24100567	Well #	002
Water Supply - Publics DIST	PWS ID #	24100567	Blank	
Waste Management	License #	00130	Point ID	AD6
Watershed Management	Permit #	0000030	Outfall #	001
Fish Management & Habitat Protection	Storet #	265013	Blank	
Remediation & Redevelopment	CERCLIS #	006094197	Point ID	001
Remediation & Redevelopment	FID	268181770	Point ID	001
Remediation & Redevelopment	Brownfields #	00000003	Point ID	001

The **Sample Address or Location field** should be the "entity" name, and depends on the program the sample is for. For example, Facility, Site, Licensee, River/Lake, Owner, etc. Following this information, include the address of the facility or site (if appropriate).

The **Sample Point Description field** should include a description of the point within the property that the sample was collected. For example, secondary settling tank effluent or faucet prior to pressure tank.

The **Route Code** is a four-character code, which will be used to route the sample results from SLOH to whoever wants the results ("Send Report To:" field). These results are routed by the State Laboratory of Hygiene Computer.

First two characters- Program code: WT, WA, DG, FH, etc.Third character- Region code: 1, 2, 4, 6, 7, 8 (see http://intranet/int/es/science/ls/fpm/IV.htm)Fourth character- Blank

The Account Number must be completed in order for the samples to be billed to the correct funding source. If you are unsure what the proper account number is refer to http://intranet/int/es/science/ls/Account.htm or contact the DNR Laboratory Coordinator or the State Laboratory of Hygiene.

The Lake Grant or WR Project # field should include the Lake Planning Grant Number or the Water Resources Approved Monitoring Plan Number.

County Code

Adams	01	Iowa	25	Polk	49
Ashland	02	Iron	26	Portage	50
Barron	03	Jackson	27	Price	51
Bayfield	04	Jefferson	28	Racine	52
Brown	05	Juneau	29	Richland	53
Buffalo	06	Kenosha	30	Rock	54
Burnett	07	Kewaunee	31	Rusk	55
Calumet	08	La Crosse	32	St. Croix	56
Chippewa	09	Lafayette	33	Sauk	57
Clark	10	Langlade	34	Sawyer	58
Columbia	11	Lincoln	35	Shawano	59
Crawford	12	Manitowoc	36	Sheboygan	60
Dane	13	Marathon	37	Taylor	61
Dodge	14	Marinette	38	Trempealeau	62
Door	15	Marquette	39	Vernon	63
Douglas	16	Menominee	40	Vilas	64
Dunn	17	Milwaukee	41	Walworth	65
Eau Claire	18	Monroe	42	Washburn	66
Florence	19	Oconto	43	Washington	67
Fond du Lac	20	Oneida	44	Waukesha	68
Forest	21	Outagamie	45	Waupaca	69
Grant	22	Ozaukee	46	Waushara	70
Green	23	Pepin	47	Winnebago	71
Green Lake	24	Pierce	48	Wood	72

State of Wisconsin Department of Natural Resources

CHAIN OF CUSTODY	RECORD
LUST PROGRAM	
Form 4400-151	

Rev. 4-93

Note: Use of this form is voluntary but is requested by the Department pursuant to ch. NR 149, NR 500-540, NR 158 and NR 419, Wis. Adm. Code. Personally identifiable information will be used for no other purpose.

	Sample Collect	tor(s)	r Hu.	ffn	nor		Title/Wo	rk Station/Con	npany	Inni	otenl	ADAIR	Telephon	e Number (incl	ude area code)	
	Property Owne	Canp	1 Ma	11H	ho	/	Property	roperty Address Stagamie St Appleton WIT Telephone Number (include area code)							le.		
	I he	reby certify	that I receive	ed, prope	rly handle	ed, and dis	posed of these	d of these samples as noted below:				Sample Condition on Receipt by Laboratory					
	Relinquished t	y (Signature	ilfino	m	ate/Time	-00 [4]	Received By (Signature) Temperature of temperature blank:										
/	Relinquished t	y (Signature	300	D	ate/Time	101	Received	By (Signature	e)		If samples were received on ice and there was ice remaining, you may report the						
(Charles OKom Ke 7.21-00 10:03							Law Krinke				s "received on ic for a temperatur	e". If all the a co blank.	ce was melted,	the temporature	e of the molt may	
	Relinquished b	oy (Signature)	D	ate/Time	1	Received	for Laborator	y By (Sig	ature)		•					
			r	7	21/0	00 10:0	05 X/	Kinnidl	1 La	Mar		1 1		1	1	1	
	Field ID Number ¹	Date Collected	Time Collected	Type ²	Device ³	Preserv. Type	Field Screening	Description	Ana T	lysis /pe	Lab ID Number	No./Type of Containers	Cracked /Broken	improperly Sealed	Good Condition	Other Comments	
	SAL	-1.1			1	HNO3,	None	Untracted	Chro	mium.	IL 00 182	A					
	201	1/20/0	0 14:10	GW	×	ICE		Influent	tota	1							
						Ice.			Chron	nium,	7100197	B					
						NaOH			Cuan	ide.	TLOOIS	76.0			· · · ·		
	V	V	N	V	V	Ice			total	u(x)		- ² C					
			ERA	-													
	a to proj		20.							·							
									<u> </u>								
										21							
							L)						1	
	¹ Sample descri ² Specify group	ption must of	clearly correl	ate the s	ample ID	to the sam	pling location	shown on a n	nap. 3	Type of sar	npling device;	split spoon, hand	auger, metal	spatula, soil syr	inge, etc.		
	-peerly Broan	DEP.	ARTMENT	USE/OP	TIONAL	FOR SOI	L SAMPLER	S				DEPA	ARTMENT U	SE ONLY			
	Disposition of	unused port	ion of sampl	le						Split Sam	oles: Offer	ed?	Yes 🕅	No (Ch	eck One)		
	Laboratory sho	ould:	X	Dispose			🗌 Retain	for _ days			Accep	oted?	Yes 🛛	No (Ch	eck One)		
			ίΩ	Return			Other	- 1		Accepted	Ву:			linnature			
*	From	San	nple	tap	or	1 Sto	nage Te	ank.	ł	Chai	noflu	stody #	5 162	887, <i>l</i>	6288	9	

CORRESPONDENCE/MEMORANDUM

DATE: August 8, 2000

TO: Mauthe Site Superfund File

FROM: Jennifer Huffman - NER

SUBJECT: Influent Characterization Sample Collection on August 8, 2000

Yesterday, the result of the first sample collected and tested for hexavalent chromium with the Hach Kit appeared to be greater than the range of the instrument (>1.5 mg/l). So I analyzed another sample according to instructions by John Stoeger (see August 8, 2000 memo describing the procedure that was used). When I returned to the office I contacted the Hach Company to see if this procedure was correct. A Mr. Bob Dabkowski (Technical Advisor) emailed me with instructions on analyzing samples outside the range of the test kit considering a range up to 4.5 mg/l. The procedure he described is essentially the same except that after the sample is diluted, you add 10 ml of the diluted sample to the test tube, then put in one pillow of the reagent (see attamentment for a copy of the email from Hach). John Stoeger's instructions indicated that I add one pillow of the reagent to the entire diluted sample, not just 10 ml of the diluted sample.

Today I went back to the Mauthe site and collected another sample. This time I followed the Hach Company's directions exactly as described on the attachment. At approximately 10:30, I collected and analyzed the sample. The result on the color disc indicated 0.7 mg/l in the diluted sample which is 3.5 mg/l based on a factor of 5 because of dilution.



Huffman, Jennifer B

From:Bob Dabkowski(SMTP:BDabkows@hach.com)Sent:Monday, August 07, 2000 05:29 PMTo:'huffmj@dnr.state.wi.us'Subject:Hexavalent Chromium

Dear Jennifer,

Thank you for your recent inquiry.

To be able to test for Hexavalent Chromium in the 0-4.5 mg/L range, it would be necessary to dilute your sample (at least fivefold - 10mL sample, then 40 mL Deionized water), take 10 mL of that dilution, run the chemistry on it (one powder pillow), read it, and multiply your value by 5. This is the way for you to measure 0-4.5 mg/L with the kit you already have. We don't have any kits that measure the 0-4.5 range, as our high range kits start at 5 or 20 mg/L and run up to 1000 mg/L. If you have any further questions, please feel free to call us at 800-227-4224 or email us at techhelp@hach.com. Thanks again, and we look forward to serving you further.

Yours Sincerely,

Visit www.hach.com ~ How the World Tests Water

CORRESPONDENCE/MEMORANDUM

DATE: August 8, 2000

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TO: Mauthe Site Superfund File

FROM: Jennifer Huffman - NER

SUBJECT: Influent Characterization Sample Collection on August 7, 2000

The purpose of this memo is to document the collection of untreated groundwaer samples for analysis from the storage tank at the Mauthe Pretreatment building. This was the third of six monthly sampling events to characterize the untreated influent. The sample was collected directly into the sample jar at the sample tap on the storage tank. The storage tank sample tap was purged of approximately 2 gallons prior to sample collection. On August 7, 2000 at 14:10, I collected the following:

- One Quart sample container for total cyanide analysis, preserved with NaOH to a pH greater than 12 and placed in a cooler with ice.
- One 250 ml sample container for total metals analysis of aluminum, arsenic, cadmium, chromium, copper, lead, nickel, and zinc. Sample was preserved with HNO3 to a pH less than 2 and placed in a cooler with ice.
- One 250 ml sample container for mercury analysis, preserved with HNO3 to a pH less than 2 and placed in a cooler with ice.
- One 250 ml sample container for hexavalent chromium analysis and placed in a cooler with ice.

I also collected a sample at the same time by and analyzed it on site for hexavalent chromium using the Hach Test kit. The result from this test was 1.5 mg/l. The upper range of the Hach kit is 1.5 mg/l so I reanalyzed a second sample by diluting it with 10 ml distilled water, adding one pillow of reagent, reading the result on the color disc, and doubling the result. This procedure resulted in an estimated concentration of 2.8 mg/l (1.4 mg/l was the result on the color disc). These results will be compared to the results from the State Lab of Hygiene. I contacted the technical services staff at the Hach Company questioning the validity of diluting the sample for reanalysis. Their email response is attached for verification.

The analysis request and chain of custody forms were filled out and placed in the cooler with the samples. The samples were sent at approximately 3 pm on August 7, 2000 to the State Lab of Hygiene via overnight courier. The courier was UPS Ground and the tracking number was 128274340340596870.

Attachments

Cc: Gary Edelstein – RR/3 (w/attachments)



State of Wisconsin Department of Natural Resources

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CHAIN OF CUSTODY	RECORD
LUST PROGRAM	
Form 4400-151	

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Rev. 4-93

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Note: Use of this form is voluntary but is requested by the Department pursuant to ch. NR 149, NR 500-540, NR 158 and NR 419, Wis. Adm. Code. Personally identifiable information will be used for no other purpose.

Sample Collector(s) Find Huffman Title/Work Stati										Her Work Station/Company, HVN 1090010915t/Appleton/WDNR Telephone Number (include area code)							
Property Own	rol A	1aut	he				Proper	Tas 5, Outagamie St., Appleton, WI Telephone Number (include area code)							able		
I he	ereby certify	that I receiv	ed, proj	perly	handle	ed, and disp	cosed of the	se samp	les as n	oted below:		<i>,</i> ,	Sampt	e Condition o LABORATO	o Receipt by La RY USE ONL	bornory Y	
Relinquished by (Signature) 1 Date/Time Le in mule Automation 8-7-00/14:50								ed By (S	Signature	:)	T	mperanne	of temperature 1	olanic:			
Relinquished by (Signature)							Receiv	Received By (Signature)				samples we	re received on k is 'received on a	e and there w ze". If all the	as ice remaining ice was melied,	, you may re the semperate	port the set of the main stay
Relinquished by (Signature) Date/Time						Receiv	Received for Laboratory By (Signature)				SUIPSULLEBU	KU R ISHIDOLEON	FC MATE				
Field ID Number ¹	Date Collected	Time Collected	S Type	ample 2 De	e vice ³	Ртезегу. Туре	Field Screening	Desc	ription	Analysis Type		Lab ID Number	No./Type of Comainers	Cracked /Broken	improperty Scaled	Good Condition	Other Comments
SOI	8/7/00	14,:10	Gu) .	*	1HNO3, Ice	None	Unt Inf	rested	Al, As, Cd Cu. Pb. N	, <u>Ch</u> , i. Z n						
	1					Ice		+	<u> </u>	Hexavale Chromiu	m						
						NaOH, Ice				Cyanide Total	<u>,</u>						
	V	V				HNO3, Ice			/	Mercur total	¥,						
		•						-									
								_									
¹ Sample descr ² Specify groun	iption must o idwater, surfa	clearly correl ace water, so	ate the oil, leact	samp nate, s	ole ID sludge	to the samj , etc.	pling locatio	on show	n on a m	лар. ³ Туре	e of sampl	ing device;	split spoon, hand	auger, metal	spatula, soil syn	inge, etc.	
Disposition of	DEP.	ARTMENT	USE/O	OPTIO	NAL	FOR SOIL	_ SAMPLE	RS					DEPA	ARTMENT U	SEONLY		<u></u>
Laboratory sh	ould:		Dispos Return	e			🗌 Retain	n for _	days	Spi	it Samples	: Offer Accer	ed?	Yes 🕅 Yes 🗍	No (Ch No (Ch	eck One) eck One)	
From	Sar	nple	Ta.	ρ.	01	n st	brag	je Ti	ānł	қ. С	Chai	n of	- Cust	ody #	Signature 5 98/1 16,2	87 714	

7 State of Wisconsin Laboratory of Hygiene

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Inorganic Test Request Form 4800-15 (R 2/99) Page 1 of 2

License #, I.D. Number, Permit or STO	DRET Point, Well or Outfall #	Field Number County # Route Code $\Box 5 \Box I$
Waterbody Number Sample Addre	ess or Location	$= 1201_{} 12 141_{}$
NW A	AAU The SUDA	fund Site 725 S. Outopamir And
Sample Point Description	unite super	Internet in the statight of the state of the
Untreated Influ	cent Sample co	lected from Storage Tank
Send Re	eport To	Sample Type (Non WS):
First Name Last N	ame	SU Surface Water EF Effluent (Treated Wastewater)
Jenniter H	uttman	SE Sediment MW Monitoring Well
Address WUNK	ula et	LE Leachate So Soil Priority
3367 W Bren	Ster JI	TI Tissue OI Oil OW Waste
Appleton	111T 54914	
Date Results Needed (MM/DD/YYYY)	Fax Bes? Fax Number	Water System Type (Water Supply Use ONLY): Sample Sources (WS ONLY):
09/11/2000	No -	OC ComOther than Municipal
Account Number Collected By		TN Transient Non-Community W Well NN Non-Transient Non-Community
RBOL9 J. Hu	FFman	P Private Sample Type (SDWA ONLY):
Lakes Grant or WR Project #	TelephoneNumber	X Non-Potable D Compliance Sample C Confirmation
	420-832-1803	Is Sample Chlorinated? Ves X No
Begin or Grab Date (MM/DD/YYYY)	Begin Time (24-hr clock)	Check any appropriate:
08/07/2000	14:10	S Split B Field Blank E Enforcement X Y Compliance
End Date - For Composite Samples	End Time (24-hr clock) - For Composite Samples Only	Depth of Sample (feet or meters)
	Composite Samples Only	
Field Parameters - Optional		60 ml Bottle
Sample Temperature - field (°C)		NO + NO as Nitrogen (Drinking Water)
Ambient Air Temperature - field (°C)		Nitrite (NO) as Nitrogen
DO field (ma/l)		Quart Mason Jar (Also TCLP Metals)
pH (su) field		250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply
Secchi Depth (feet or meters)		Metals Bottle (Acidify W/Nitric Acid)
Cloud Cover%	For M	With the second
Cond-fid (uMHOS/CM@25°C)		TCLP (Toxicity Characteristic Leaching Procedure)(*TC Regulated Metals)(Use Mason Jar)
Gage Height (ft)	·	Aluminum Kead
Flow ofs	`	Arsenic*
Flow MGD	`	Barium* Mercury*
Depth to Groundwater (ft)	<u> </u>	Boron Nickel
Plastic Quart Bottle		— K Chromium, Total* ☐ Silver Chromium, Hexavalent ¹ ☐ Sodium
Sample Bottle Field Filtered? (Check but	ox if ves)	Copper Data
Total Solids	Alkalinity, pH, & Conductivity	In Hardness-as CaCU ₃ → A Zinc I Iron I Cool to 4°C Only
Vol. I otal Solids Susp. Solids (≥ 10 mg/l)] pH only (non-Waste or non-Complianc] Chloride	(e) Nutrients Bottle (Acidify W/Sulfuric Acid) Sample Bottle Field Filtered? (Check box if yes)
TSS Low Level (Submit Additional Sample)	Color Eluoride	Tot-Phosphorus
Vol. Susp. Solids] Sulfate	□ Ammonia-N □ NO ₂ + NO ₃ as Nitrogen □ Total Kjeldahl-N □ Chemical Oxygen Demand (COD)
Total Dissolved Solids BOD Dissolved	J Sulfide (notify lab before collecting sample)	Please indicate which analyte groups (if any) have been field filtered by checking the box and noting on the lid of the sample bottle
BOD₅ Total (≥ 6 mg/l)] Turbidity	Bacti Bottle
(Submit Additional Sample)		MFFCC* Fecal Strep.*
BOD Estimate Required	mg/l	Samples for both water chemistry and water bacteriology should be submitted in
Cyanide, Total Cyanide, Amendable to Chlorination	1	separate bottles with separate test request forms.
Chlorophyl A (Uncorrected or C	Corrected)	Additional parameters
(if Field Filtered; give ml	filtered)	

EXPRESS CONV CTRS BLUEMOUND #67 920-830-1774

08/07/00	14:43
ICE 20#	\$2.79T
TOTAL.	\$2.93
CHECK	\$2.93
TL/NOTAX	\$2.79
	1 A A

TAX PD \$0.14 RECEIPT NO. 2-2202

OFFICIAL FUEL SUPPLIER TO THE GREEN BAY PACKERS!

ASS' RRNE

11 A) (9)	VI Statistics (CAX)	g Store. 1 Ava.	PKG.	I.D.	484	<u>655 - A</u>	
TO	Name StateL Company (If Applies) Street Address ZeOII City	aboft nic Cl Agricu	tygi hem Itur State	ene ((nistry re Dr	Phone (08) 22 Uns ¹⁷ Suite/Ap VC Zip Co	If Available) If Available) 	2
F R O M	Name Jennis INDI Address 336 City Apola	Fertu VR 9 Wif	Stew	(If Applies)	-5131 37 5 ^{zip} 0	7118	RRSD
Sender's Phone:() 332-1833 Store Packed? Yes If No Customer releases the Handle With Care Packaging Store from any liability from damage. I have read, and agree to the terms and limits of liability on the reverse side of this form. Signature				4220			
CON	NTENTS OF EACH	вох		CASH VALUE	SHIPPING WEIGHT	FREIGHT & HANDLING	
А	Senzo	es.		100 "	202	8.76	-8
B C							RRNE
D				S. P. Star			
Pleas Sti Te Re	se, how did you firs ore Location elevision/Radio eferred By	t hear of us?	es · Ad	Coupon Other	Prepac inspected ship as sto	k Release Mgr. ha and agrees t re pack.	しょ
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DCR/0	C.O.D. Amount	T and	_ Pick-i Remitt	up/Delivery ance	Charge Charge	ne	- !
Groun	d 🗇 Via:	eP5		Zone			t-
Overn Other:	ight Air 2nd Type of Service	Day Air	3 Day A	Air 🗌 Via: _ Via: _	LePs.	6.2	1 and
PACKAGING MATERIALS					à		
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17	282743	40342	59	Service Ch Sales	Tax	.05	-n
DA				TAL CHAR	GES	5.81	R

Huffman, Jennifer B

From:Bob Dabkowski(SMTP:BDabkows@hach.com)Sent:Monday, August 07, 2000 05:29 PMTo:'huffmj@dnr.state.wi.us'Subject:Hexavalent Chromium

Dear Jennifer,

Thank you for your recent inquiry.

To be able to test for Hexavalent Chromium in the 0-4.5 mg/L range, it would be necessary to dilute your sample (at least fivefold - 10mL sample, then 40 mL Deionized water), take 10 mL of that dilution, run the chemistry on it (one powder pillow), read it, and multiply your value by 5. This is the way for you to measure 0-4.5 mg/L with the kit you already have. We don't have any kits that measure the 0-4.5 range, as our high range kits start at 5 or 20 mg/L and run up to 1000 mg/L. If you have any further questions, please feel free to call us at 800-227-4224 or email us at techhelp@hach.com. Thanks again, and we look forward to serving you further.

Yours Sincerely,

Visit www.hach.com ~ How the World Tests Water



Status: **Delivered** Delivered on: Aug 8, 2000 9:20 A.M. Delivered to: BLAIR Location: RECEIVER Shipped to: US Shipped or Billed on: Aug 7, 2000

Tracking Number: 1Z 827 434 03 4059 687 0 Service Type: GROUND Weight: 20.00 Lbs

PACKAGE PROGRESS

Date	Time	Location	Activity
Aug 8, 2000	9:20 A.M.	CAPITAL, WI, US	DELIVERY
	5:12 A.M.	CAPITAL, WI, US	DESTINATION SCAN
	2:00 A.M.	CAPITAL, WI, US	ARRIVAL SCAN
	1:17 A.M.	OAK CREEK, WI, US	DEPARTURE SCAN
Aug 7, 2000	11:45 P.M.	OAK CREEK, WI, US	LOCATION SCAN
	9:16 P.M.	OAK CREEK, WI, US	ARRIVAL SCAN
	6:05 P.M.	OSHKOSH, WI, US	DEPARTURE SCAN
	5:27 P.M.	OSHKOSH, WI, US	ORIGIN SCAN
	5:12 P.M.	US	PICKUP MANIFEST RECEIVED

Tracking results provided by UPS: Aug 8, 2000 10:40 A.M. Eastern Time (USA)

http://wwwapps.ups.com/etracking/tracking.cgi

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Date 8-7-2000

From: Joan LeClerc

(920) 492-5844

- _C. Verhoeven
- ___R. Barrum
- __M. Schuelke
- __K. Scherer
- __G. Paplham
- _K. Hutchison
- _L. Jameson
- J. Everson DG/2
- S. Helt DG/2
 - L. Heinen (Manitowoc)

- _L. Braatz
 - (Sturgeon Bay)
- __N. Kutchery (Peshtigo)
- _J. Schedgick
 - (Oshkosh)
- _K. O'Connor
 - (Oshkosh)
- _J. Moeller

enne

(Oshkosh)

mail

__FOR YOUR FILES __FOR DATA ENTRY

Jenni:

State Laboratory of Hygiene University of Wisconsin Center for Health Sciences 2601 Agriculture DR, Madison WI 53718 R.H. Laessig, Ph.D., Director D.F. Kurtycz, M.D., Medical Director Environmental Science Section (608) 224-6277 DNR LAB ID 113133790 Inorganic chemistry (#16 of 16 on 08/07/00, unseen) Id: 445014460 Point/Well/..: 001 Field #: S1 Route: RR40 Collection Date: 07/20/00 Time: 14:10 County: 45 (Outagamie) From: N.W. MAUTHE SUPERFUND SITE 725 S OUTAGAMIE ST APPLETON Description: INFLUENT SAMPLE COLLECTED AFTER STORAGE TANK, NO TREATMENT To: JENNIFER HUFFMAN Type: Compliance DNR Source: Influent APPLETON Collected by: HUFFMAN Account number: RR019 Enforcement Date Received: 07/21/00 Labslip #: IL001875 Reported: 08/04/00 CHROMIUM, TOTAL REC, ICP (SW846 6010B) 2700. UG/L CHROMIUM, HEXAVALENT (USGS I-1230-85) 2800. UG/L

CHROMIUM, HEXAVALENT (USGS I-1230-85)2800.UG/LCYANIDE (EPA 335.4)ND (LOD=0.004 MG/L).DIG, TOTAL REC, ICP, LIQUIDS (SW846 3005A)DIG METTEMPERATURE ON RECEIPTICEDC

Huffman, Jennifer B

From:	Dinsmore, Donalea
Sent:	Wednesday, August 09, 2000 10:45 AM
To:	Arneson, Ronald C; Huffman, Jennifer B
Cc:	'Kennedy-Parker, DeWayne'; Khazae, Charlene A; 'Hill, Susan'
Subject:	RE: Hex and Total Chromium in Water

Jennifer,

I would interpret the results that you have to mean that all of the chromium present is hexavalent. Essentially, the results for the two-determinations are the same. Every determination has uncertainty and error associated with it. For most metals, differences of 5 to 10% are not alarming. The difference in the two numbers is within the expected error of the determinations.(Relative percent difference of 3.6%).

 From:
 Huffman, Jennifer B

 Sent:
 Wednesday, August 09, 2000 10:14 AM

 To:
 Arneson, Ronald C

 Cc:
 'Kennedy-Parker, DeWayne'; Khazae, Charlene A; Dinsmore, Donalea; 'Hill, Susan'

 Subject:
 Hex and Total Chromium in Water

Yesterday I received some results back from some sampling I did at the Mauthe site. The SLOH lapslip number is IL001875 and the sample was collected by me on 7/20/00. I had the water sample analyzed for cyanide, total chrome and hex chrome. The total chrome was 2700 ug/l and the hex chrome was 2800 ug/l. I thought the hex chrome should be at most equal to the total chrome concentration but here it is 100 ug/l greater. Can you offer any explanation as to why the total concentration is less than the hex? Thanks!

Jennifer Huffman, P.G., Hydrogeologist Wisconsin Department of Natural Resources 3369 W. Brewster Street Appleton, WI 54914-1602 Telephone: (920) 832-1803 Fax: (920) 832-1800 Internet Email Address: huffmj@dnr.state.wi.us Visit our web site at: http://www.dnr.state.wi.us/org/aw/rr/

From: Arneson, Ronald C

Sent: Wednesday, August 09, 2000 09:59 AM

To: 'Hill, Susan'; Dinsmore, Donalea; Huffman, Jennifer B; Khazae, Charlene A; Edelstein, Gary A

Cc: 'Kennedy-Parker, DeWayne'

Subject: RE: Hex Chrome in Water

I talked to the lab about the problem and the only reasons we could find would put the basis the other way. So the lab is ordering a PE sample from ERA to for additional QC.

Jennifer: Are you using a DR??? or a color wheel with the Hach kit?

Ronald C. Arneson Laboratory Services Bureau of Integrated Science Services Department of Natural Resources ArnesR@dnr.state.wi.us (608) 264-8949

-----Original Message-----From: Arneson, Ronald C [mailto:ArnesR@mail01.dnr.state.wi.us] Sent: Monday, August 07, 2000 1:13 PM To: 'Hill, Susan' Subject: FW: Hex Chrome in Water

Sue: See attached message. What is your precission and accuracy for this test. I think the information I have is outdated.

Ronald C. Arneson Laboratory Services Bureau of Integrated Science Services Department of Natural Resources ArnesR@dnr.state.wi.us (608) 264-8949

> -----

> From: Dinsmore, Donalea

> Sent: August 01, 2000 9:19 AM

> To: Alfredo Sotomayor; Diane Drinkman; Gregory Pils; John Condron;

> Richard Mealy; Ronald Arneson

> Subject: FW: Hex Chrome in Water

>

ţ

> This is an interesting case. I have suggested that they use known

> standards to see how results compare. They also need to check the age of

> their reagents. Anyone have any specific knowledge of the Hach test for

> hexachrome?

>

> -----

> From: Khazae, Charlene A

> Sent: Tuesday, August 01, 2000 9:06 AM

> To: Dinsmore, Donalea

> Subject: FW: Hex Chrome in Water

>

> -----

> From: Huffman, Jennifer B

> Sent: Monday, July 31, 2000 4:55 PM

> To: Khazae, Charlene A

> Cc: Edelstein, Gary A

> Subject: Hex Chrome in Water

>

> Hi Charlene,

>

I'm in the process of characterizing our untreated influent at the Mauthe
site for hexavalent chromium and some other metals. This is a Superfund
site in O&M being operated by WDNR. Historically, for the hex chrome,
we've been collecting hex chrome samples after treatment and analyzing
them on site using a Hach colormetric test kit as required in our permit
to show the water has been successfully treated for hex chrome. The City
has been accepting our Hach kit results as proof of no hex chrome in the
effluent.

> I'm trying to get our permit renewed to allow for discharge without

> treatment if all our contaminants are below the discharge standards. I am

> collecting samples monthly for six months to characterize our influent

> before treatment. For the hex chrome, I'm trying to show that our hach

> test results are the similar as what a laboratory would report. Based on > the sampling done by EPA before the DNR assumed O&M operations, the Hach > kit results were very similar to their laboratory results (they were > within a tenth of a mg/l). So using the same assumption, I wanted to use > real time Hach kit results to represent our untreated effluent. If we are > allowed to discharge without treatment, I don't want to have to wait for > lab results to get back before I can dump a batch. I don't have the > luxury of time based on the amount of water coming into the plant. > > What I'm finding so far (based on two monthly rounds) is that the SLOH hex > results are roughly two times the concentration of the Hach test results. > Here are the results: > June 13, 2000 **SLOH Results** > Hach Results > mg/lmg/l > > 0.3 0.650 > > > July 20, 2000 > Hach Results **SLOH Results** > mg/lmg/l > > 1.3 2.7 > > So.....my question is do you know of any reason why the SLOH results > would be twice as much as the Hach kit? Sampling done by EPA showed the > Hach kit results were very similar to their laboratory results and now > ours are off by a factor of two. Thanks for any help you may have! > > > Jennifer Huffman, P.G., Hydrogeologist > Wisconsin Department of Natural Resources > 3369 W. Brewster Street > Appleton, WI 54914-1602 > Telephone: (920) 832-1803 > Fax: (920) 832-1800 > Internet Email Address: huffmj@dnr.state.wi.us > Visit our web site at: http://www.dnr.state.wi.us/org/aw/rr/

- >
- > >
CORRESPONDENCE/MEMORANDUM

DATE: July 20, 2000

TO: Mauthe Site Superfund File

FROM: Jennifer Huffman - NER

SUBJECT: Influent Characterization Sample Collection on July 20, 2000

The purpose of this memo is to document the sample collection of untreated groundwater for analysis from the storage tank at the Mauthe Pretreatment building. The sample collected on July 13 (which was supposed to represent the second month of sampling in a six month characterization schedule) was not delivered the next day to the State Lab of Hygiene (SLOH) by Federal Express. The cooler had been sent to Chicago and was finally delivered on July 17 to the SLOH. Because of this, the 24 holding time for hexavalent chromium was exceeded. And the ice had melted so the cyanide and hexavalent chromium samples were not received on ice. The total metals analysis will not be affected since they had been properly preserved with nitric acid and did not require cooling with ice.

The sample collected today will be analyzed for hexavalent and total chromium, along with total cyanide. The sample was collected directly into the sample jar at the sample tap on the storage tank. The storage tank sample tap was purged of approximately 2 gallons prior to sample collection. On July 20, 2000 at 14:10, I collected the following:

- One Quart sample container for total cyanide analysis, preserved with NaOH to a pH greater than 12 and placed in a cooler with ice.
- One 250 ml sample container for total chromium. Sample was preserved with HNO3 to a pH less than 2 and placed in a cooler with ice.
- One 250 ml sample container for hexavalent chromium analysis and placed in a cooler with ice.

A sample was also collected at the same time by John Stoeger of MCO and analyzed on site for hexavalent chromium using the Hach Test kit. The result from this test was 1.3 mg/l These results will be compared to the results from the State Lab of Hygiene.

The analysis request and chain of custody forms were filled out and placed in the cooler with the samples. The samples were sent at approximately 3 pm on July 20, 2000 to the State Lab of Hygiene via overnight courier. The courier was UPS and the tracking number was 128274340340257281.

Attachments

Cc: Gary Edelstein – RR/3



State of Wisconsin Department of Natural Resources

CHAIN	OF	CUSTODY	RECORD
LUST P	ROO	GRAM	
Form 44	100-	151	

Rev. 4-93

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Note: Use of this form is voluntary but is requested by the Department pursuant to ch. NR 149, NR 500-540, NR 158 and NR 419, Wis. Adm. Code. Personally identifiable information will be used for no other purpose.

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² Specify groun	ndwater, surf	ace water, so	oil, leac	hate, s	sludge	, etc.												
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State of Wisconsin Laboratory of Hygiene

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Form 4800-15 (R 2/99) Page 1 of 2

License #, I.D. Number, Permit or STORET [Point, Well or Outfall #	Field Number County # Route Code
<u>445014460 001</u>	<u>SI45 RR4</u>
Waterbody Number Sample Address or Location	
N.W. Mauthe Supert	und Site, 725, S. Outagamie St., Hppleton
Sample Point Description	Les Starger Toull on treatment
Influent sample conceptor ut	TET JORAGE IWAR, NO TREATMENT.
Send Report To	Sample Type (Non WS):
Jennifer Huttman	NP Storm Water IF Influent (Untreated Wastewater)
Address in DNR	SL Sludge
3369 W, Brewster St.	LE Leachate SO Soil Riority
city Appleton WI 54914	Water System Type (Water Supply Use ONLY): Sample Sources (WS ONLY):
Date Results Needed (MM/DD/YYYY) Fax Res? Fax Number	MC Community-Municipality
<u>8-13-00</u> Yes 9208321800	OC ComOther than Municipal E Entry Point
Account Number Collected By	NN Non-Transient Non-Community
KRULT J. MUHMAN	X Non-Potable
Lakes Grant or WH Project # Telephone Number ロコハ タスフードハス	C Confirmation
Begin or Grob Date (MM/DD/XVXX) Begin Time (24-br clock)	Is Sample Chlorinated? Yes No
$\Delta 7/2 0/2000 144.10$	Check any appropriate:
End Date - For Composite Samples End Time (24-hr clock) - For	Denth of Sample (feet or meters)
Only (MM/DD/YYYY) Composite Samples Only	For M
Field Parameters - Optional	60 ml Bottle
Sample Temperature - field (°C)	NO + NO as Nitrogen (Drinking Water)
Ambient Air Temperature - field (°C)	Quart Mason Jar (Also TCLP Metals)
DO field (mg/l)	Oil & Grease pH (Waste Samples Only)
pH (su) field	250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply Metals Bottle (Acidity W/Nitric Acid)
Secchi Depth (feet or meters)	Sample Bottle Field Filtered? (Check box if yes)
Cloud Cover%%	Context Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed
Cond-fld (µMHOS/CM@25°C)	X Total Recoverable Metals
Gage Height (ft)	
Flow cfs	Arsenic* Manganese
Flow MGD	Beryllium Molybdenum
Depth to Groundwater (ft)	
Turbidity (NTU)	Calcium 🗌 Selenium
Plastic Quart Bottle	Chromium, Hexavalent ¹ Sodium
Sample Bottle Field Filtered? (Check box if yes)	☐ Copper ☐ That#um ☐ That#um
□ Vol. Total Solids □ Alkalinity, pH, & Conductivity □ Vol. Total Solids □ pH only (non-Waste or non-Compliance)	Iron ¹ Cool to 4°C Only Nutrients Bottle (Acidify W/Sulfuric Acid)
□ Susp. Solids (≥ 10 mg/l) □ Chloride	Sample Bottle Field Filtered? (Check box if yes)
(Submit Additional Sample)	│ TotPhosphorus │ Ammonia-N │ NO₂ +NO₃ as Nitrogen
U Vol. Susp. Solids Sulfate	Total Kjeldahl-N Chemical Oxygen Demand (COD)
BOD Dissolved sample	box and noting on the lid of the sample bottle.
Li BOD Total Low Level	Bacti Bottle
(Submit Additional Sample)	MFFCC* LJ Fecal Strep.*
BOD Estimate Required mg/l	Samples for both water chemistry and water bacteriology should be submitted in
Cyanide, Amendable to Chlorination	Separate outres with separate test request forms.
(if Field Filtered, give ml filtered)	

EXPRESS CONV CTRS BLUEMOUND #67 920-830-1774

67

07/20/00 14:30 ICE 7# \$1.19T TOTAL \$1.25 CASH \$1.25

TL/NOTAX \$1.19 TAX PD \$0.06 RECEIPT NO. 1-7019 OFFICIAL FUEL SUPPLIER TO THE GREEN BAY PACKERS!



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Tracking Summary

To see a detailed report for each package, please select the Detail button.

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1.	1Z 827 434 03 4025 728 1	Delivered	Delivered on:	Jul 21, 2000 9:15 A.M.
			Delivered to:	WOEHRL
	QIDETAIL		Service Type:	GROUND

Tracking results provided by UPS: Jul 21, 2000 10:29 A.M. Eastern Time (USA)

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CORRESPONDENCE/MEMORANDUM

DATE: July 13, 2000 TO: Mauthe Site Superfund File FROM: Jennifer Huffman - NER

SUBJECT: Influent Characterization Sample Collection on July 13, 2000

The purpose of this memo is to document the collection of samples for analysis from the storage tank at the Mauthe Pretreatment building. This was the second of six monthly sampling events to characterize the untreated influent. The sample was collected directly into the sample jar at the sample tap on the storage tank. The storage tank sample tap was purged of approximately 2 gallons prior to sample collection. On July 13, 2000 at 14:05, I collected the following:

- One Quart sample container for total cyanide analysis, preserved with NaOH to a pH greater than 12 and placed in a cooler with ice.
- One 250 ml sample container for total metals analysis of aluminum, arsenic, cadmium, chromium, copper, lead, nickel, and zinc. Sample was preserved with HNO3 to a pH less than 2 and placed in a cooler with ice.
- One 250 ml sample container for mercury analysis, preserved with HNO3 to a pH less than 2 and placed in a cooler with ice.
- One 250 ml sample container for hexavalent chromium analysis and placed in a cooler with ice.

A sample was also collected at the same time by John Stoeger of MCO and analyzed on site for hexavalent chromium using the Hach Test kit. The result from this test was 1.4 mg/l These results will be compared to the results from the State Lab of Hygiene.

The analysis request and chain of custody forms were filled out and placed in the cooler with the samples. The samples were sent at 15:07 on July 13, 2000 to the State Lab of Hygiene via overnight courier. The courier was Federal Express Ground and the tracking number was 0422679 00007614.

Attachments

Cc: Gary Edelstein – RR/3



MAIL BOXES ETC." PARCEL SHIPPIN		/97			
CUSTOMER (please print) PRINT NAME Jennifer Auffman STREET 3369 W. Brewster St CITY/STATE/ZIP Appleton, WI 34914	DATE 13/00 PHONE 32-180 DAYTIME PHONE	PARCEL SHIF No. 590	PPING ORDER		
PKG. SENT TO:	LIST ALL CONTENTS	DECLARED C.O.D. VALUE AMT.	ZONE WT DIM. WT.	CK. ONE	Pkg. Charges Amt Type
NAME Inorganic Chemistry Unit	+ Water	\$\$		SONIC AIR	LILL SHP CHG DEC
A State Lob of Aygiene	Samples	RESIDENTIAL COMMERCIAL	PACKED BY CUSTOMER		COD
STREET 2601 Agriculture Prive		BREAKABLE	REPLACEABLE	DAY AIR 3 DAY SELECT	DCR SAT
CITY/STATE/ZIP	ONE	SEE #3 BELOW	SEE BACK	GROUND OTHER	DEL
NAME FedEx Ground Tracking ID 0422679 000076	14	\$ \$	PACKED BY	SONIC AIR	SHP CHG DEC VAL
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					DEC VAL
G STREET APT. #		BREAKABLE	REPLACEABLE		DCR
CITY/STATE/ZIP PHO	ONE	YES NO	YES NO		SAT DEL
1. The Carrier for all parcels accepted by this Mail Boxes Etc. Center ("we" or "us") shall be UPS unless otherwise noted (Other). Parcels accepted from Customer	5. We are not liable for the failure of Parcels. If Recipient's check is ac	of the Carrier to properly colle cepted for COD's by the Car	ct or remit funds for COD rier, it will be at your risk	SUB-TOTAL	\$
 ('you') are subject to refusal for shipment by the Carrier. We do not accept hazardous material, illegal items or articles of unusual value, for shipment 	unless 'Cash Only' is noted on understand the instructions on the 6. We are not liable for Carrie	COD tag. You acknowledge COD tag. r's failure to make timely d	elivery on delivery date		
3. Subject to the terms and conditions herein, we will receive and forward parcel for you, and your true name and address appear above. We assume no liability for the delivery of the parcels accepted for shipment nor for loss or damage by any cause to the needed to the control of the parcels accepted to the parcel of the parcels accepted to the parcel of the parcels accepted to the parcels accepted to the parcel of the parcels accepted to the parcel of the parcels accepted to the parcels accepted to the parcels accepted to the parcel of the parcels accepted to the parcel of the parcels accepted to the parcel of the parcels to the parcel of the parcels to the parcel of the parc	specified. Any statement by us as of opinion and estimate only, and any consequential, incidental, or from delays in shipping or delivery.	to probable date of delivery is not warranted in any man punitive damages, nor any I	by Carrier is a statement ner. We are not liable for oss or damage resulting		
the parcels, we will assist you in filing and processing of claims only. You expressly agree that we have no liability if any claim is denied or paid only in part by the carrier or any other declared value provider. Parcels packaged by you not meeting Carrier's packing standards are not covered for damage during shipment. You acknowledge that packaging	7. This Parcel Shipping Order con and us, and supersedes all prior, declared value coverage is purch declared value trans and coordition	stitutes the full and complete /subsequent representations, nased, such coverage is gov	agreement between you either written or oral. If rerned by the applicable	TAX	
standards for Shock, Vibration, & Compression have been explained by us. We assume no responsibility or liability for damages to a parcel packaged by you; any such parcels that have been packed by you may be covered only for loss, not damage.	8. MBE Centers are owned and USA, Inc. (the "Franchisor"). Yo responsible or liable for any acts of	operated by licensed franch u acknowledge and agree romissions of its franchisees.	isees of Mail Boxes Etc. that Franchisor is not	TOTAL CHARGES	\$ 11.12
4. You expressly acknowledge that the value of each of the parcels do not exceed the above stated amount declared by you and understand that declared value coverage shall be available only if you have paid the appropriate declared value fees. If such declared value coverage is purchased, you agree to the terms and conditions on the	CUST I certify that I agree to the fore their value for each package list	OMER'S SIGNATUF going terms, and that the state ed are truthful and complete.	C contents and	7ha	unk You
back of this Parcel Shipping Order. If no amount is specified in the declared value section, above, you acknowledge that the value of the parcel shall not exceed \$100.	SIGN HERE X CANN	6 Hulter	an	EMPLOYEE'S IN	JITIALS

CUSTOMER COPY

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EMPLOYEE'S INITIALS _______ © 1995 MAIL BOXES ETC.® (1997 Ed., Rev.1997) (FORM #220100)

DECLARED VALUE TERMS AND CONDITIONS

You may purchase declared value coverage through the carrier designated on this PSO or from an independent company, if available. The declared value terms and conditions for the various carriers can be found in the carriers' service guide. The declared value terms and conditions for the various carriers and any applicable independent company selected by you are available for review at this MBE Center. Upon request, you may receive a photocopy of such terms and conditions. Please note that we may surcharge the cost of this product as an administrative expense, for services such as processing of potential claims and other related services.

Limitations on Liability

The limit of liability for loss or damage to your package is limited to your actual damages or \$100, whichever is less, unless you pay for and declare a higher authorized value. The maximum recovery on any loss that you may receive is set forth in the applicable declared value terms and conditions. Recovery may be limited to the lesser of value declared, repair cost, replacement cost, or fair market value. Declared value coverage is usually not available for items of sentimental value or items such as artwork, jewelry, statuary precious metals, furs, negotiable instrument, and certain other items, such as very fragile items. Consult the applicable declared value terms and conditions for further information. Each declared value provider designates monetary limits of coverage.

Filing a Claim

If parcels arrive damaged, the recipient must save all packaging materials/cartons and must arrange for inspection of the damaged parcels with the carrier's or independent company's local agent. Notice of claim should be made directly to the MBE Center that shipped the item. Claims not made in writing within 10 days after air shipments or 3 months after ground shipments are hereby waived. All claims must be made by you in writing. Within 90 days after filing a claim, you must send the declared value provider all relevant information requested. If the recipient accepts the package without noting any damage on the delivery record, any and all claims are waived.

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**************************************	ALE *********** oxes Etc. Easier. Worldw ID:411 Clerk:De er #1812 College Ave. N, WI 54914 20-832-8338	ide. ******* Leest 5:07:15			
Qty Description	Unit	Ext			
1 FedEx Ground	11.72	11.72			
Sub Tota	Sub Total: Tax: Total Sale:				
17 p. 188 17 p. 188 17 p. 189 18 p. 199 18 p. 199 19 p.	Check: Change:	11.72 0.00			

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Sample Shipment On 7/13/00 274 RRNE 2754 RRSD JBA

State of Wisconsin Laboratory of Hygiene

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Inorganic Test Request Form 4800-15 (R 2/99) Page 1 of 2

License #, I.D. Number, Permit or STORET Point, Well or Outfall #	Field Number County # Route Code
445014460 001	<u> S 1 45 RR 4 </u>
Waterbody Number Sample Address or Location	
N.W. Manthe Supertund	Site, 125 S. Outagamie St., Appleton, WI
Sample Point Description	Strange trick up treating at
Influent Sample Collected ufter	Storgge Turin, no Treatment.
Send Report To	Sample Type (Non WS):
levalue H. France in	NP Storm Water X IF Influent (Untreated Wastewater)
Address UDALR	SE Sediment MW Monitoring Well
3369 III Browster St.	LE Leachate SO Soil Chority
City State Zip	OW Waste
Appleton WI 54914	Water System Type (Water Supply Use ONLY): Sample Sources (WS ONLY):
Date Results Needed (MM/DD/YYYY) Fax Res? Fax Number	MC Community-Municipality D Distribution
8-13-2000 Yes 920-832-1800	OC ComOther than Municipal E Entry Point
Account Number Collected By	NN Non-Transient Non-Community
<u>ADULI</u> J. Muttman	X Non-Potable
Lakes Grant or WR Project # Telephone Number	C Confirmation
$\frac{1}{7 \times 0^{-0} \times 2^{-1} \times 0^{-1}}$	Is Sample Chlorinated? Yes No I Investigation
	Check any appropriate:
End Date - For Composite Samples End Time (24-br clock) - For	
Only (MM/DD/YYYY) Composite Samples Only	For M
Field Parameters - Optional	60 ml Bottle
Sample Temperature - field (°C)	NO + NO as Nitrogen (Drinking Water) DissOrthophosphate
Ambient Air Temperature - field (°C)	Unitrite (NO) as Nitrogen US Diss. Silica
DO field (mg/l)	Oil & Grease Dil & Grease Dil & Grease Dil & Grease
pH (su) field	250 ml Bottle for Nutrients or Metals - Check each of the following boxes that apply
Secchi Depth (feet or meters)	Sample Bottle Field Filtered? (Check box if yes)
Cloud Cover % F or M %	Low Level Metals (e.g., Surface Waters by ICP/MS) Note: Special Bottles Needed
Cond-fld (µMHOS/CM@25°C)	Total Recoverable Metals
Gage Height (ft)	Aluminum 🛛 Lead
Flow cfs	Arsenic* Manganese
Flow MGD	
Depth to Groundwater (ft)	Boron X Nickel
Turbidity (NTU)	Calcium Selenium
	Chromium, Hexavalent ¹
Sample Bottle Field Filtered? (Check box if yes)	Copper Intallium
Total Solids Alkalinity, pH, & Conductivity Vol. Total Solids Alkalinity, pH, & Conductivity	□ Iron ¹ Cool to 4°C Only
Susp. Solids (≥ 10 mg/l)	Nutrients Bottle (Acidify W/Sulfuric Acid) Sample Bottle Field Filtered? (Check box if yes)
TSS Low Level Color (Submit Additional Sample) Fluoride	
Vol. Susp. Solids Sulfate	Total Kjeldahl-N Chemical Oxygen Demand (COD)
	Please indicate which analyte groups (if any) have been field filtered by checking the box and noting on the lid of the sample bottle.
_ BOD _s Total (≥ 6 mg/l)	Bacti Bottle
(Submit Additional Sample)	MFFCC* Fecal Strep.*
BOD Estimate Required mg/l	Samples for both water chemistry and water bacteriology should be submitted in
Cyanide, Amendable to Chlorination	separate bottles with separate test request forms.
Chlorophyl A (U Uncorrected or U Corrected) (If Field Filtered, give min	Additional parameters
(n Field Finered, give mi intered)	

State of Wisconsin Department of Natural Resources

CHAIN OF CUSTODY RECORD LUST PROGRAM Form 4400-151

Rev. 4-93

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Note: Use of this form is voluntary but is requested by the Department pursuant to ch. NR 149, NR 500-540, NR 158 and NR 419, Wis. Adm. Code. Personally identifiable information will be used for no other purpose.

Sample Coller	ctor(s)	er Hu	1 fi	Fma	n	Title/W	ork Station/Con	osist/AC	OLEDNINDNR (action Number (include area code)
Property Owner Carol Mauthe 725 5, Out						Property	Address 5 5, 01	tagomie	St. Appleton, WI Telephone Number (include area code)
I hereby certify that I received, properly handled, and disposed of these samples as noted below:							Sample Condition on Receipt by Laboratory LABORATORY, USE ONLY		
Relinquished	by (Signature	H. D.L.	an	Date/Time 7/13/	00 14;	4.5 Receive	d By (Signature	;)	Temperature of temperature blank;
Relinquished	by (Signature	500		Date/Time		Receive	d By (Signature	:)	If samples were received on los and three was are remaining, you may report the removables at "morivation net". If all the sea was mained, the semerations of the main may
Relinquished	by (Signature)		Date/Time	<u> </u>	Receive	d for Laborator	ry By (Signature)	- be substituted for a remperature blank.
Field ID	Date	Time	S	ample	Preserv.	Field	Description	Analysis	Lab ID No. Type of Cracked improperty Good Other
Number	Conected	Conected	Туре	Device	HNO3	Nove	Untreated	ALAS CO.CL	President Containers (Sevent Sector Containing Comments)
<u>SOI</u>	7/13/00	14:05	Gu) *	Ice'		Influent	Cu, Pb, Ni,	En la la la la la la la la la la la la la
Í					Ice			Hexavalen	
					Na OH,			Cvanide.	
	+				Ice			total	
					HNO3			Mercury	
<u> </u>		¥⁄	-₩-						
							<u> </u>		
· · · · · · · · · · · · · · · · · · ·							<u> </u>		
						•			
¹ Sample decor	ription must a	learly correl	are the		to the same	nling location		1	sampling device: split spoon, hand auger, metal spatula, spil surjage, etc.
² Specify groun	ndwater, surfa	ice water, so	il, leach	hate, sludge	, etc.		· · · · · · · · · · · · · · · · · · ·		samping device, spin spoon, nam auger, mean spanna, son synnge, etc.
Disposition of	DEP. f unused porti	ion of sampl	e e	DETIONAL	FOR SOIL	L SAMPLER	<u>ی</u>		DEPARTMENT USE ONLY
Laboratory st	hould:	X	Dispos	c		Retain	for days	Split S	Amples: Offered? Yes X No (Check One)
•			Return	-		Other		Accep	ed By:
★ Fr	* From Sample tap on Storage Tank.							k, C	hain of custody #'s 34169 34170

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Page 1 of 1



From	
То	
То	
То	

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State Laboratory of Hygiene University of Wisconsin Center for Health Sciences 2601 Agriculture DR, Madison WI 53718 R.H. Laessig, Ph.D., Director D.F. Kurtycz, M.D., Medical Director Environmental Science Section (608) 224-6277 DNR LAB ID 113133790 Inorganic chemistry (#34 of 35 on 08/10/00, unseen) Field #: S1 Id: 445014460 Point/Well/..: 001 Route: RR40 Collection Date: 07/13/00 Time: 14:05 County: 45 (Outagamie) From: N.W. MAUTHE SUPERFUND SITE 725 S OUTAGAMIE ST APPLETON WI Description: INFLUENT SAMPLE COLLECTED AFTER STORAGE TANK, NO TREATMENT To: JENNIFER HUFFMAN Type: Compliance DNR Source: Influent APPLETON Collected by: HUFFMAN Account number: RR019 Enforcement Date Received: 07/17/00 Labslip #: IL001262 Reported: 08/09/00 -----ALUMINUM, TOTAL REC, ICP (SW846 6010B) ND (LOD=31 UG/L) ARSENIC, TOTAL REC, ICP (SW846 6010B) 15. UG/L detected between 12 (LOD) and 40 (LOQ) UG/L CADMIUM, TOTAL REC, ICP (SW846 6010B) ND (LOD=2 UG/L) CHROMIUM, TOTAL REC, ICP (SW846 6010B) 1700. UG/L CHROMIUM, HEXAVALENT (USGS I-1230-85) ** UG/L #1 ND (LOD=5 UG/L) COPPER, TOTAL REC, ICP (SW846 6010B) CYANIDE (EPA 335.4) ** MG/L #2 DIG, TOTAL REC, ICP, LIQUIDS (SW846 3005A) DIG MET LEAD, TOTAL REC, ICP (SW846 6010B) 13. UG/L detected between 13 (LOD) and 42 (LOQ) UG/L MERCURY, AA COLD VAPOR (EPA 245.1) ND (LOD=0.03 UG/L) NICKEL, TOTAL REC, ICP (SW846 6010B) ND (LOD=9 UG/L)ZINC, TOTAL REC, ICP (SW846 6010B) ND (LOD=19 UG/L) TEMPERATURE ON RECEIPT 23 С ICP TEST ICP --- Footnotes ---

Remark #1: SAMPLE RECEIVED PAST HOLDING TIME, NO TEST DONE Remark #2: SAMPLE RECEIVED WAS NOT ICED, NO TEST DONE

CORRESPONDENCE/MEMORANDUM ·

DATE: June 13, 2000

TO: Mauthe Site Superfund File

FROM: Jennifer Huffman - NER JBH

SUBJECT: Influent Characterization Sample Collection on June 12, 2000

The purpose of this memo is to document the collection of samples for analysis from the storage tank at the Mauthe Pretreatment building. This was the first of six monthly sampling events to characterize the untreated influent. On June 12, 2000 at 13:10 I collected the following:

- One Quart sample container for total cyanide analysis, preserved with NaOH to a pH greater than 12 and placed in a cooler with ice.
- One 250 ml sample container for total metals analysis of aluminum, arsenic, cadmium, chormium, copper, lead, nickel, and zinc. Sample was preserved with HNO3 to a pH less than 2 and placed in a cooler with ice.
- One 250 ml sample container for mercury analysis, preserved with HNO3 to a pH less than 2 and placed in a cooler with ice.
- One 250 ml sample container for hexavalent chromium analysis and placed in a cooler with ice.

A sample was also collected by John Stoeger of MCO and analyzed on site for hexavalent chromium using the Hach Test kit. The result from this test was 0.3 mg/l These results will be compared to the results from the State Lab of Hygiene.

The analysis request and chain of custody forms were filled out and placed in the cooler with the samples. The samples were sent at 14:43 on June 12, 2000 to the State Lab of Hygiene via overnight courier. The courier was Spee Dee Transport and the tracking number was 06-275 0002064.

Attachments

Cc: Gary Edelstein – RR/3



State of Wisconsin Laboratory of Hygiene

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Inorganic Test Request Form 4800-15 (R 2/99) Page 1 of 2

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License #, I.D. Number, Permit or STORET	Point, Well or Outfall #	Field Number		County #	Route Code	ł
(FID) 445014460	001	51		45	RR4	
Waterbody Number Sample Address or I	Location			·		
Ν.ω.Μ	authe Supert	und site, 72	<u>5 5.01</u>	itagar	niest., App	oleton
Sample Point Description				+	NO.	
Influent Same	ole collected	Atter Sto	nage	lan	K. Treatmi	ent
Send Report	Го	Sample Type (Non WS):				
First Name		NP Storm Water	IF Influe	nt (Treated W nt (Untreated	Vastewater) Wastewater)	
Jenniter Hutt	mari	SE Sediment	MW Monit	oring Well	(Ron Valation	
Address WUNN	er st.			elei	Pitonly	
City	State Zip		OI Oil	•		
Appleton	WI 54914	Water System Type (Water Su		'): Sampl	e Sources (WS ONLY):	
Date Results Needed (MM/DD/YYYY) Fax R	es? Fax Number	MC Community-Municipa	ality		Distribution	·
<u>7/7/00</u> le.	5 (920)832+800	OC ComOther than Mu	inicipal nunity		Entry Point / Well	
Account Number Collected By		NN Non-Transient Non-	Community	Sampl	e Type (SDWA ONLY):	
ARQ11 J. Hutte	nari	X Non-Potable			Compliance Sample	
Lakes Grant or WR Project # Telep					Confirmation	
Regin of Crah Date (MM/DD/XXX) Regin	$\frac{U^2 U \mathcal{J} \mathcal{J}^2}{U^2 U \mathcal{J}^2} = \frac{100 \mathcal{J}^2}{100 \mathcal{J}^2}$	Is Sample Chlorinated?	'es 🕅 No		Investigation	
	1ス 112	Check any appropriate:	nk 🗍 E Enfo	rcement	Y Compliance	
End Date - For Composite Samples End 1	Fime (24-hr clock) - For	Denth of Sample /feat or mater	re)	<i>,</i>		
Only (MM/DD/YYYY) Comp	posite Samples Only	Depth of Sample (leet of meter	F or M			
Field Parameters - Optional		60 ml Bottle	? (Check box if	ves)		
Sample Temperature - field (°C)	` ` 	NO + NO as Nitrogen	(Drinking Water)	DissO	thophosphate	
Ambient Air Temperature - field (°C)	_ ·_	Quart Mason Jar (Also TCLP N	n Aetais)		lica	
DO field (mg/l)	<u> </u>	Oil & Grease] pH (Waste	Samples Only)	
pH (su) field	·	250 ml Bottle for Nutrients or M Metals Bottle (Acidity W/Nitric	letals - Check ea	ich of the follo	wing boxes that apply	
Secchi Depth (feet or meters)		Sample Bottle Field Filtered	? (Check box if	yes)		
Cloud Cover %	м%	LOW LEVEL METAIS (e.g., Surface	ce Waters by ICP/N eaching Procedure	IS) Note: Spec ("TC Regulated)	ial Bottles Needed J Metals)(Use Mason Jar)	
Cond-fid (µMHOS/CM@25°C)		Total Recoverable Metals	5	f Lead		
Gage Height (ft)	<u> </u>	Antimony	, z	Magnesiun	ı	
Flow cfs	<u> </u>	Arsenic*	L D	Manganesi	9	
Flow MGD		Beryllium	Ĩ	Molybdenu	m .	
Depth to Groundwater(ft)		Cadmium*	Ĺ	Potassium		
Turbidity (NTU)	· · · · · · · · ·_	Calcium	ſ] Selenium		
Plastic Quart Bottle		Chromium, Hexavalent	יַר	Sodium		
Sample Bottle Field Filtered? (Check box if ye	s)	Hardness-as CaCO ₃	ل ک	Zinc		
Total Solids Alkalin	nity, pH, & Conductivity Ily (non-Waste or non-Compliance)	Iron	1 Lurio Acid)	Cool to 4°C C	only	
☐ Susp. Solids (≥ 10 mg/l) ☐ Chlori	ide	Sample Bottle Field Filtered	(Check box if	yes)		
(Submit Additional Sample)	de	TotPhosphorus	г		as Nitrogen	
Vol. Susp. Solids	e e (notify lab before collecting	Total Kjeldahl-N		Chemical (Dxygen Demand (COD)	
	sample)	Please indicate which analyte gi box and noting on the lid of the s	roups (if any) ha sample bottle.	ve been field i	nitered by checking the	
I BOD₅Total (≥ 6 mg/l) I Turbic BOD Total Low Level	dity	Bacti Bottle		_		
(Submit Additional Sample)		MFFCC [•]	C,	Fecal Strep	p.*	
BOD Estimate Required	mg/l	*Samples for both water chemis	try and water ba	cteriology sho	ould be submitted in	
Cyanide, Amendable to Chlorination		separate bottles with separate to	est request form	S.		
Chlorophyl A (L) Uncorrected or Corr	rected)	Additional parameters				
(ii Field Fillered, give fill	_ mereu)					

State of Wisconsin Department of Natural Resources

CHAIN	OF	CUSTODY	RECORD
LUST P	ROO	GRAM	
Form 44	100-	151	

Rev. 4-93

Note:	Use of thi	s form is	s voluntary	but is requested	i by the De	epartment pu	irsuant to c	h. NR 14	19, NR 500-540,
NR 1:	58 and NR	419, Wi	s. Adm. Co	de. Personally	identifiable	information	will be use	ed for no	other purpose.
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		•						· · · · · · · · · · · · · · · · · · ·						
Sample Collector(s)						Title/Wo	Title/Work Station/Company, LADOR TON INDNIR Telephone Number (include area code)						ic)	
Property Owne	Tal N	2	too			Property	Address	tracinie st	Acolot	Do UIT	Telephor	ne Number (in	clude area coo	ie) ala
I he	reby certify	that I receiv	ed, prop	erly hand	led, and disp	posed of these	e samples as n	oted below:	TPP/EIC	Sample	a Condition o	a Receipt by I	abornery	
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Relinguished	60 / 1+1	<u>, KX M</u>	21	<u>()</u> Date/Time	X) 16 30	Received	d By (Signatur	e)		of temperature 1	HAMK:			
• • •									it samples we	ere received on ic is "received on ic	e and there w e^. If all the	ico was melied	ing, you may re the temporation	port the an of the mail may
Relinquished b	oy (Signature	;)		Date/Time		Réceives	for Laborato	ry By (Signature)	- be substituted	for a temperatu	re blank.			
														
Field ID Number ¹	Date Collected	Time Collected	Sa Type ²	ample Device ³	Preserv.	Field Screening	Description	Analysis Type	Lab ID	No./Type of Containers	Cracked (Broken	improperty Sealed	Good	Other
					HN03	None	Untreated	ALAS. Cd. Ch.						40.000
<u> </u>	6/12/00	13:10	Gu		Ice '		Influent	Cu, Pb, Ni Zn						
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					NaOH			Cvanide.						
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¹ Sample descri	ption must	clearly correl	late the	sample II) to the sam	pling location	shown on a n	nap. ³ Type of sa	mpling device;	split spoon, hand	auger, metal	spatula, soil s	yringe, etc.	
² Specify ground	dwater, surf	ARTMENT	USE/O	PTIONAL	e, etc.	L SAMPLER	<u>s</u>		<u> </u>	DEPA	RTMENT U	JSE ONLY		
Disposition of	unused port	ion of samp	le					Solit Som		······		(
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THOM	San	npie 7	ap	on ·	Jura	J~ 1.001	111	Chai	nof	Custo	ty #5	3416	193	4168.

Shift:0221 Drw:01 ID:457 Clerk:DeLeest 6/12/00 14:43:11 Center #1812 2700 W. College Ave. APPLETON, WI 54914 Phone 920-832-8338

Qty Description



413/00

1 Spee-Dee	9.77	9.77
Sub Tota	Total: Tax: Sale:	9.77 0.00 9.77

E.COM Delivered or 5 Seliver # 11:15 an te utwo # 11:15 an te utwo ot 10:00 All nadison fo 2001 ve utwo to 2001 ve utwo Check: 9.77 Change:

Unit

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GRAND CHUTE MOTO

3225 WEST GLENPARK DRIVE GRAND CHUTE, VI 54914 /R 2 /S 1 /T 258 /C 1388 06/12/2000 13:21:26 Store#4402

1	NOTOWART	ICE 8 LB	00
		SUBTOTAL	.33
		Tax	. 99
		TAX RATE 1	.05
		TOTAL	1.04
		CASH	2.00
		CHANGE DUE	- 96

THANK YOU FOR SHOPPING AT MOTOMART PLEASE COME AGAIN

67

EXPRESS CONV CTRS BLUEMOUND #67 920-830-1774

06/12/00	13:01
ICE 7#	\$1.19T
TOTAL	\$1.25
CASH	\$1.25
TL/NOTAX	\$1.19

TAX PD \$0.06 RECEIPT NO. 2-3309

OFFICIAL FUEL SUPPLIER TO THE GREEN BAY PACKERS! JENNIFER HUFFMAN - WI DNR 3369 W BREWSTER ST APPLETON WI 54914

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ENFORCEMENT

Sample(s) will be disposed of ninety days from the date the sample is reported, unless this form is completed and returned to:

> Attn: Julie Inorganic Chemistry Unit Wis. State Lab. of Hygiene 2601 Agriculture Drive P.O. Box 7996 Madison, WI 53707-7996

> > •

Collector: HUFFMAN

District/Area: North East

Phone Number:

Sample Number(s): IK029824

Report date: 07/25/00

___Retain sample(s) for ___days. ___Retain sample(s) until further notice.

State Laboratory of Hygiene University of Wisconsin Center for Health Sciences 2601 Agriculture Drive, Madison, WI 53707-7996 R.H. Laessig, Ph.D., Director D.F. Kurtycz, M.D., Medical Director ------Environmental Science Section (608) 224-6277 DNR LAB ID 113133790 Inorganic chemistry Id: 445014460 Point/Well/..: 001 Field #: S1 Rout Collection Date: 06/12/00 Time: 13:10 County: 45 (Outagamie) Route: RR40 From: NW MAUTHE SUPERFUND SITE 725 S OUTAGAMIE ST APPLETON Description: INFLUENT SAMPLE COLLECTED AFTER STORAGE TANK, NO TREATMENT To: JENNIFER HUFFMAN Type: Compliance DNR Source: Influent APPLETON Collected by: HUFFMAN Account number: RR014 Enforcement Date Received: 06/13/00 Labslip #: IK029824 Reported: 07/25/00 -----ALUMINUM, DIG, ICP (SW846 6010B) 72. UG/L detected between 31 (LOD) and 100 (LOQ) UG/L ARSENIC, DIG, ICP (SW846 6010B) ND (LOD=16 UG/L)CADMIUM, DIG, ICP (SW846 6010B) CHROMIUM, DIG, ICP (SW846 6010B) ND (LOD=3 UG/L) 2500. UG/L CHROMIUM, HEXAVALENT (USGS I-1230-85) 650. UG/L COPPER, DIG, ICP (SW846 6010B) UG/L 14. detected between 8 (LOD) and 25 (LOQ) UG/L CYANIDE (EPA 335.4) ND (LOD=0.004 MG/L)DIG 730.1, ICP, LIQ, EXCEPT AS/SE/AG (SW846 3010A) LEAD, DIG, ICP (SW846 6010B) DIG MET (qualitative) UG/L 25. detected between 16 (LOD) and 52 (LOQ) UG/L MERCURY, AA COLD VAPOR (EPA 245.1) 0.04 UG/L detected between 0.03 (LOD) and 0.08 (LOQ) UG/L NICKEL, DIG, ICP (SW846 6010B) UG/L 25. detected between 10 (LOD) and 33 (LOQ) UG/L ZINC, DIG, ICP (SW846 6010B) 83. UG/L TEMPERATURE ON RECEIPT ICED C ICP TEST ICP

State of Wisconsin Laboratory of Hygiene

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Inorganic Test Request Form 4800-15 (R 2/99) Page 1 of 2

License #, I.D. Number, Permit or STORE	T Point, Well or Outfall #	Field Number	County# Route Code
FID) 445014460) 445014460 001		<u>45</u> <u><u><u>R</u>R4_</u></u>
Waterbody Number Sample Address	or Location		
= N, W, f	Manthe Supert	und Site, 725	5. Outagamiest., Appletor
Sample Point Description		101	+ NO.
Influent Sam	ple collected	After Stor	ase lank, Treatment
Send Repo	ort To	Sample Type (Non WS):	
First Name Last Nam		NP Storm Water	IF Influent (Ireated Wastewater)
Address in DALP	ttmari	SE Sediment	MW Monitoring Well LX Lysimeter For Lab Use:
Address WONR	ator St.		SO Soil Priority
City	State Zip		OV Waste
Appleton	WI 54914	Water System Type (Water Supp	ly Use ONLY): Sample Sources (WS ONLY):
Date Results Needed (MM/DD/YYYY) Fa	x Res? Fax Number	MC Community-Municipality	D Distribution
7/7/00	125 (920)832-1800	OC ComOther than Munic	nity D W Well
Account Number Collected By		NN Non-Transient Non-Con	mmunity Sample Type (SDWA ONLY):
J.Hut	tmari	X Non-Potable	D Compliance Sample
Lakes Grant or WR Project #	910-832-1803		U C Confirmation
Begin or Grab Date (MM/DD/XXXX)	eqin Time (24-hr clock)	Is Sample Chlorinated? Yes	No I Investigation
0/2 - 12 - 2000	13'10	S Split B Field Blank	E Enforcement X Compliance
End Date - For Composite Samples	nd Time (24-hr clock) - For	Depth of Sample (feet or meters)	
Only (MM/DD/YYYY)	omposite Samples Only		F or M
Field Parameters - Ontional		60 ml Bottle	
Sample Temperature - field (°C)		Sample Bottle Field Filtered? (Check box if yes)
Ambient Air Temperature - field (°C)		Nitrite (NO) as Nitrogen	
DO field (mg/l)	`_	Quart Mason Jar (Also TCLP Meta	als)
pH (su) field		250 ml Bottle for Nutrients or Meta	als - Check each of the following boxes that apply
Secchi Depth (feet or meters)		Metals Bottle (Acidify W/Nitric Aci	id) Check box if yes)
Cloud Cover %	F or M 0%	Low Level Metals (e.g., Surface V	Vaters by ICP/MS) Note: Special Bottles Needed
Cond-fld (uMHOS/CM@25°C)	<u> </u>	TCLP (Toxicity Characteristic Leach Total Recoverable Metals	hing Procedure)(*TC Regulated Metals)(Use Mason Jar)
Gage Height (ft)		Aluminum	. Lead
Elow of	·	Arsenic*	
Flow MGD		Barium*	Mercury*
Pepth to Groundwater(ff)		Boron	X Nickel
Plastic Quart Bottle		Chromium, Total*	Silver Sodium
Sample Bottle Field Filtered? (Check box i	fves	Copper	Thallium
Total Solids	kalinity, pH, & Conductivity	☐ Hardness-as CaCO ₃ ☐ Iron	¹ Cool to 4°C Only
└── Vol. Total Solids └── pH	H only (non-Waste or non-Compliance) hloride	Nutrients Bottle (Acidify W/Sulfuri	c Acid)
TSS Low Level	olor	TotPhosphorus	
Vol. Susp. Solids	ulfate	Ammonia-N Total Kjeldahl-N	NO ₂ +NO ₃ as Nitrogen Chemical Oxygen Demand (COD)
Total Dissolved Solids BOD Dissolved	ulfide (notify lab before collecting sample)	Please indicate which analyte grou	ps (if any) have been field filtered by checking the
BOD₅ Total (≥ 6 mg/l) □ Tu	urbidity	Bacti Bottle	
(Submit Additional Sample)		MFFCC*	Fecal Strep.*
BOD Estimate Required	mg/l	*Samples for both water chemistry	and water bacteriology should be submitted in
Cyanide, Total		separate bottles with separate test	request forms.
Chlorophyl A (Uncorrected or (Corrected)	Additional parameters	1300029824
(if Field Filtered, give ml	filtered)		JUNIJUOCE

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Partial Instructions

See Chapter 4 "Lab Slips" of the *Field Procedures Manual* (see <u>http://intranet/int/es/science/ls/fpm/IV.htm</u>) for further instructions and definitions.

The **ID Number, Permit or STORET and Point/Well fields** should contain the appropriate IDs, left justified, for the program system the sample is for:

	Program	ID Number	Example	Pt./Well	Example
	Water Supply - Privates	Unique Well #	AA999	Blank	
	Water Supply - Publics RAW	PWS ID #	24100567	Well #	002
	Water Supply - Publics DIST	PWS ID #	24100567	Blank	
1	Waste Management	License #	00130	Point ID	AD6
1	Watershed Management	Permit #	0000030	Outfall #	001
2	Fish Management & Habitat Protection	Storet #	265013	Blank	
e	Remediation & Redevelopment	CERCLIS #	006094197	Point ID	001
	Remediation & Redevelopment	FID	268181770	Point ID	001
	Remediation & Redevelopment	Brownfields #	00000003	Point ID	001

The **Sample Address or Location field** should be the "entity" name, and depends on the program the sample is for. For example, Facility, Site, Licensee, River/Lake, Owner, etc. Following this information, include the address of the facility or site (if appropriate).

The **Sample Point Description field** should include a description of the point within the property that the sample was collected. For example, secondary settling tank effluent or faucet prior to pressure tank.

The **Route Code** is a four-character code, which will be used to route the sample results from SLOH to whoever wants the results ("Send Report To:" field). These results are routed by the State Laboratory of Hygiene Computer.

First two characters	- Program code: WT, WA, DG, FH, etc.
Third character	- Region code: 1, 2, 4, 6, 7, 8 (see http://intranet/int/es/science/ls/fpm/IV.htm)
Fourth character	- Blank

The Account Number must be completed in order for the samples to be billed to the correct funding source. If you are unsure what the proper account number is refer to http://intranet/int/es/science/ls/Account.htm or contact the DNR Laboratory Coordinator or the State Laboratory of Hygiene.

The Lake Grant or WR Project # field should include the Lake Planning Grant Number or the Water Resources Approved Monitoring Plan Number.

County Code

Adams	01	Iowa	25	Polk	49
Ashland	02	Iron	26	Portage	50
Barron	03	Jackson	27	Price	51
Bayfield	04	Jefferson	28	Racine	52
Brown	05	Juneau	- 29	Richland	53
Buffalo	06	Kenosha	30	Rock	54
Burnett	07	Kewaunee	31	Rusk	55
Calumet	08	La Crosse	32	St. Croix	56
Chippewa	09	Lafayette	33	Sauk	57
Clark	10	Langlade	34	Sawyer	58
Columbia	- 11	Lincoln	35	Shawano	59
Crawford	12	Manitowoc	36	Sheboygan	60
Dane	13	Marathon	37	Taylor	61
Dodge	14	Marinette	38	Trempealeau	62
Door	15	Marquette	39	Vernon	63
Douglas	16	Menominee	40	Vilas	64
Dunn	17	Milwaukee	41	Walworth	65
Eau Claire	18	Monroe	42	Washburn	66
Florence	19	Oconto	43	Washington	67
Fond du Lac	20	Oneida	44	Waukesha	68
Forest	21	Outagamie	45	Waupaca	69
Grant	22	Ozaukee	46	Waushara	70
Green	23	Pepin	47	Winnebago	71
Green Lake	24	Pierce	48	Wood	72

Rev. 4-93

Note: Use of this form is voluntary but is requested by the Department pursuant to ch. NR 149, NR 500-540, NR 158 and NR 419, Wis. Adm. Code. Personally identifiable information will be used for no other purpose.

Sample Collect	nifer	- Huf	fr	nan		Title/Wo	Telephone Number (include area code)							
Property Owner Larol Mauthe							125 S. Outagamiest. Appleton. WI Telephone Number (include area of Nono Availa					Availat	ile	
I he	reby certify	that I receive	ed, prop	erly handl	ed, and disp	osed of these	e samples as n	oted below:		Sampl	e Condition c LABORATO	n Receipt by La RY USE ONL	boratory Y	. H
Relinquished	by (Signature	hlm	an	Date/Time	N.19:30	Received	By (Signature	e) Jula	Temperature	of tomperature	blank:			
Relinquished	by (Signature	sou	1	Date/Time	JBH	Received	By (Signature		If samples we	re received on is	es and there w	vas ice remaining	, you may repo	art the
(Julies	OKOU	nta	[6-13.0	Ð		<u></u>	By (Cignother)	temperature a be substituted	s "roceived on a for a temperatu	ce". If all the re blank.	ice was melted,	the temperature	a of the melt may
Kennquisned i	by (Signature	;)		Date/ I line		Received	I for Laborator	ry by (Signature)						
Field ID	Date	Time	Sa	imple	Preserv.	Field		Analysis	Lab ID	No./Type of	Cracked	Improperty	Good	Other
Number'	Collected	Collected	Type	Device	HNOS	None	Description	ALAS (d Ch	Number	Contamors	/Broken	Scaled	Londition	Comments
501	6/12/00	13:10	GW	*	Ice'	100110	Influent	Cu, Pb, Ni Zr	115.029824					
		1			TCE			Chromium,						
								hexavalent						
					Ice			total						
					HNO3,			Mercury,						
	W	V	V.	V	Ice '	V	V	total			2			
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Sample deser	I	learly correl	lata the		to the sec	nling logation	L chown on c =	1		E	i augar matal	Enatula soil sur	inge etc	
² Specify groun	dwater, surf	ace water, so	oil, leach	ate, sludge	e, etc.	ping location		- Type of s	impling device;	spin spoon, nand	auger, metal	spatula, soli syl		
Disposition of	Unused port	ARTMENT	USE/O	PTIONAL	FOR SOIL	_ SAMPLER	S			DEP.	ARTMENT U	JSE ONLY		
[]]]]]]]]]]]]]]]]]]]	P.44	p					75 1	Split San	nples: Offere	ed?	Yes 💢	No (Ch	eck One)	
Laboratory sho	ould:		Dispose	1		L] Retain	for _ days	Accente	Accer 1 By:	oted?	Yes] No (Ch	eck One)	
1		l	Return				(.	Accepto				Signature		
* From	San	nple t	ap	ons	storas	je lan	nK.							

State Laboratory of Hygiene University of Wisconsin Center for Health Sciences 2601 Agriculture DR, Madison WI 53718 R.H. Laessig, Ph.D., Director D.F. Kurtycz, M.D., Medical Director Environmental Science Section (608) 224-6277 DNR LAB ID 113133790 Inorganic chemistry (#23 of 23 on 07/26/00, unseen) Id: 445014460 Point/Well/..: 001 Field #: S1 Route: RR40 Collection Date: 06/12/00 Time: 13:10 County: 45 (Outagamie) From: NW MAUTHE SUPERFUND SITE 725 S OUTAGAMIE ST APPLETON Description: INFLUENT SAMPLE COLLECTED AFTER STORAGE TANK, NO TREATMENT To: JENNIFER HUFFMAN Type: Compliance DNR Source: Influent APPLETON Collected by: HUFFMAN Account number: RR014 Enforcement Date Received: 06/13/00 Labslip #: IK029824 Reported: 07/25/00 _____ ALUMINUM, DIG, ICP (SW846 6010B) 72. UG/L detected between 31 (LOD) and 100 (LOQ) UG/L ARSENIC, DIG, ICP (SW846 6010B) ND (LOD=16 UG/L) CADMIUM, DIG, ICP (SW846 6010B) ND (LOD=3 UG/L) CHROMIUM, DIG, ICP (SW846 6010B) 2500. UG/L CHROMIUM, HEXAVALENT (USGS I-1230-85) 650. UG/L COPPER, DIG, ICP (SW846 6010B) 14. UG/L detected between 8 (LOD) and 25 (LOQ) UG/L CYANIDE (EPA 335.4) ND (LOD=0.004 MG/L) DIG 730.1, ICP, LIQ, EXCEPT AS/SE/AG (SW846 3010A) DIG MET LEAD, DIG, ICP (SW846 6010B) 25. UG/L detected between 16 (LOD) and 52 (LOQ) UG/L MERCURY, AA COLD VAPOR (EPA 245.1) 0.04 UG/L detected between 0.03 (LOD) and 0.08 (LOQ) UG/L NICKEL, DIG, ICP (SW846 6010B) 25. UG/L detected between 10 (LOD) and 33 (LOQ) UG/L ZINC, DIG, ICP (SW846 6010B) 83. UG/L TEMPERATURE ON RECEIPT ICED C ICP TEST ICP