State of Wisconsin Substance Release Notification Form
Department of Natural Resources Form 4400-91 (Rev. 12-04, e-form)
24-Hour Emergency Hotline Number: 1-800-943-0003

04-38-548958

Date & Military Time of Incident: 11/20/2006 0800hrs	**Date & Military Time Reported:** 11/20/2006 1439hrs	**Spill File #** NER11202006_01 **BRRTS #** 04-38-548958
Person Reporting: KENNETH DIEHN - 'dean'	**Representing:** STORA ENSO	**Phone #** 715-251-8300 **Fax #**
Responsible Party (RP) / Spiller: STORA ENSO	**RP Decision Based On:** PROTOCOL	**Phone #** **Fax #**
RP Address: 1101 MILL ST		**City** NIAGARA **State** WI **Zip Code** 54151-
RP Contact Name & Title: STEVE LEWENS		**Phone #** 715-251-8311 **Fax #**
Substance Involved: ALUMINUM SULFATE	**Amount & Units Released:** 2165 GALLONS	**Amount & Units Recovered:** NONE

☐ Solid ☐ Semisolid ☒ Liquid ☐ Gas Color: Odor:

Exact Location Of Incident: (including street name, bldg. #, mileage, etc.) 1101 MILL ST	**Facility Name / Property Owner:** STORA ENSO NIAGARA MILL

☒ **City** ☐ **Village** ☐ **Township** NIAGARA	**County** MARINETTE	**Latitude/Longitude** deg. ' '', deg. ' ''
DNR Region: NER	**1/4 1/4 Sec T N R** ☐ **E** ☐ **W**	**Weather Conditions:**

Cause of Incident:
RUPTURED LINE IN A STORAGE TANK

Spilled Substance Impact To: (check X all that apply)
- ☐ Air ☐ Potential
- ☐ Concrete/Asphalt ☐ Potential
- ☐ Contained/Recovered
- ☐ Groundwater ☐ Potential
- ☐ Private Well ☐ Potential
- ☐ Sanitary Sewer ☐ Potential
- ☐ Soil ☐ Potential
- ☒ Storm Sewer ☐ Potential
- ☒ Surface Water ☐ Potential
  Name: MENOMONEE RIVER
- ☐ Other:

Spill Cause and/or Site:
- ☐ Ag Coop/Food Factory
- ☐ Airport Facility ☐ Railroad Facility
- ☐ Construction, Excavation, Wrecking, Quarry, Mine
- ☐ Gas/Service Station/Garage/Auto Dealer/Repair Shop
- ☐ Hydraulic Line Break
- ☐ Industrial Facility ☒ Paper Mill ☐ Chemical Co.
- ☐ Pipeline/Terminal/Tank Farm/Oil Jobber/Wholesaler
- ☐ Private Property (home/farm)
- ☐ Public Property (city, state, church, school, etc.)
- ☐ Transportation Accident, Fuel Tank Spill
- ☐ Transportation Accident, Load Spill
- ☐ Utility Co. Power Generating/Transfer Facility
- ☐ Other:

Action Taken By Spiller:
- ☐ Cleanup Method:
  - ☐ Absorbent
  - ☐ Excavation
  - ☒ Pumped out containment
- ☒ Containment
- ☒ Contractor Hired
  Name: Veolia
- ☒ Monitor
- ☐ No Action Needed
- ☐ No Action Taken
- ☒ Waste Destination: WWTP
- ☒ Other: removed product from tank

Injuries? ☐Yes ☒No If yes how many? **Has An Evacuation Occurred?** ☐Yes ☒No **Potential?** ☐Yes ☒ No

Are There Any Resource Damages? ☐Yes ☐No ☒ Potential **What Kind?**

Other Agencies Notified: (check first column, if notified; check both columns, if on the scene)

☐ ☐ Fire Department	☒ ☐ Local DNR	☒ ☐ EPA
☐ ☐ Local Law Enforcement	☒ ☐ Div. Emerg. Mgt.	☒ ☐ Nat'l Resp Ctr 800-442-8802
☒ ☐ LEPC or Local Emer. Mgt.	☒ ☐ Coast Guard	☐ ☐ Chemtrec 800-424-9300
☐ ☐ Level A/Level B Team	☒ ☐ DHFS 608-258-0099	☒ ☐ Other: BRUCE OHMAN

Incident Commander:

Phone #

Prepared By: ANN BAUER	Phone # 608-266-5214	Date: 11/20/2006	Rpt'd To DATCP? ☐Yes ☒No Date: Tnsfed. To DATCP ☐Yes ☒No Date:
Person Notified: KELLY CROTTY	Phone #	Date: 11/20/2006 Time: 1510	Spill Packet Sent? ☒Yes ☐No Date: 11/22/06 To: ken.diehn@storaenso.com
Investigated By:	Sign:	Date:	Transferred to ERP ☐Yes ☒No Date: Case #
Spill Coordinator Signoff: Jason W Mueller		Date: 11/27/06	NFA Letter Sent? ☐Yes ☒No Date: Incident Closed? ☒Yes ☐No Date: 11/27/06

☒ See Additional Comments On Reverse (Please, print page 2 of 2)

Date and Military Time Of Incident: 11/20/06 0800hrs	**Responsible Party:** Stora Enso

Additional Comments : 11/22/06, Moeller received MSDS for Alum from Ken Diehn.

11/27/06, Moeller received spill report from Linda Somers, Diector of Environmental Regulartory Support - Stora Enso.

Case Activity Report: ☐ Yes ☒ No CAR#: (Please, attach copy of all CAR and other documentation)

Enforcement Action: ☐ Yes ☒ No (Explain Below)

Linda S. Somers, CHMM
Director of Environmental Regulatory Support

WI DNR
RECEIVED
NOV 27 2006
NER WASTE/RR

STORAENSO

Stora Enso North America Corp.
P.O. Box 8050
Wisconsin Rapids, WI 54495-8050

Tel 715-422-3138
Fax 715-422-3625
www.storaenso.com

November 22, 2006

Mr. Bruce Oman
Peshtigo Service Center
101 N. Ogden Road
PO Box 208
Peshtigo, WI 54157

Re: Niagara Liquid Alum Spill Report

Dear Mr. Oman:

This letter confirms the liquid alum spill at the Niagara Mill, which was reported to you on November 20, 2006.

The attached spill report specifies the circumstances resulting in the discharge and corrective actions taken to minimize adverse impacts and prevent recurrence.

At approximately 11:00 a.m. on November 19, 2006 a liquid alum tank and/or piping developed a leak. Alum spilled into containment, then overflowed into the storm sewer discharging to the river. A sump pump was used to pump the alum to a process sewer. Veolia Special Services has been contacted to finish cleaning up the after leak has been repaired.

If you have any questions or need additional information, please contact me at (715) 422-3138, or in my absence, Steve Lewens at (715) 251-8311.

Sincerely,

STORA ENSO NORTH AMERICA CORP.

Linda S. Somers

Linda S. Somers
Director of Environmental Regulatory Support

CC: John Reichert – N / Steve Lewens – N / Ken Diehn – N / Annabeth Reitter – OSC-2

Mr. Jason Moeller, Depart. of Natural Resources, PO Box 10448, Green Bay, WI 54307-0448

National Response Center, US Coast Guard, 2100 Second Street SW, Washington, DC 20593

Mr. Eric Burmeister, Marinette County Emergency Management, 2161 University Drive, Marinette, WI 54143-3889

STORAENSO

Spill Reporting Form - Stora Enso U.S. Operations

Initial Spill Report Information

Initial spill report to the regulatory agencies made by: Kenneth Diehn (*Name*) 715-251-8300 (*Phone*)

Initial discharge reported to (list all regulatory agencies with contact names):
WDNR - Bruce Oman, National Response Center - Ms. Johnson (Report number 818708), Marinette County Emergency Management - Eric Burmeister, EPA- Ken Raim, Wisconsin 24-Hour Hotline, WDNR Conservation Officer - Kelly Kratie(?)

Date/time discharge reported to regulatory agencies: 11/20/06 1:20 PM

Date of spill: 11/19/06-11/20/06 **Duration:** 11:00 (*Start Time*) ☒ AM ☐ PM 10:00 (*Stop Time*) ☒ AM ☐ PM

Street address *(if available, otherwise plat book description)*: 1101 Mill Street, Niagara WI 54151

Name of material spilled: Liquid Alum (11.13 lbs/gal) with 48.5% Aluminum Sulfate by weight

Total flow or quantity: 2165 gallons of product containing 11,691 pounds of Aluminum Sulfate

Physical state of material spilled *(solid, liquid, gas, etc.)*: Liquid

Physical, chemical, hazardous and toxicological characteristics of the substance:
Water treatment chemical. This product is considered hazardous under the OSHA Hazard Communication Standard. The CERCLA reportable quantity for Aluminum Sulfate is 5,000 pounds.

Describe receiving environmental media or medium and the mobility of the spill in that media or medium:
Overflowed containment to a storm sewer then to the Menominee River

Weather conditions at the spill site *(presence of precipitation, wind direction and velocity)*:
No precipitation, wind (calm) out to the northwest

Describe environmental resources that might have been, or have the potential to be, exposed to the contamination *(include plants, animals, humans, water supply wells, buildings, etc.)*:
Menominee River

Present and future land use in the area of the spill: N/A Spill to Menominee River

Any actual or potential environmental impacts: No environmental impacts were observed.

Does spilled material contain any CERCLA hazardous substances? Yes

If so, list substance(s) and %: Aluminum sulfate 48.5%

Does spilled material contain any SARA extremely hazardous substances? No

If so, list substance(s) and %:

Any known or anticipated acute or chronic health risks associated with the spill? *(Note distance and direction to the nearest inhabited dwellings)*: None anticipated.

Explanation of spill circumstances: Routinely, the alum supplier calls the boilerhouse requesting the alum tank levels. It was noted on Monday morning 11/20/06 that the level had dropped in one of the tanks. The on-line monitor indicated the tank level began dropping at 11:00 am. on Sunday, November 19, 2006. The tank and/or piping had developed a leak. Alum spilled into the containment then overflowed the containment into the storm sewer discharging to the river.

STORAENSO

Spill Reporting Form - Stora Enso U.S. Operations

Corrective Action

Corrective action taken to contain contamination and minimize adverse environmental impacts:
In order to stop flow over containment, a sump pump was used to pump the alum to a process sewer. The level of the liquid alum in the containment area dropped below the top of containment wall in a short time.

Name of contractor or persons performing the corrective action: Niagara mill maintenance worked on the pump. Veolia Special Services has been contacted to finish cleaning up the area after leak has been repaired -- week of 11/27.

Type, total volume and final disposition of any contaminated materials generated as part of the spill cleanup *(include copies of manifests, receipts, etc.)*:
To minimize spillage to the environment, the material was pumped to the wastewater treatment plant. The total pumped to the process sewer was about 5,390 gallons. Since this material is used in the wastewater treatment process to enhance settling, the amount pumped to the treatment plant was monitored to ensure there were no negative impacts.

Environment restored to fullest extent possible? No negative impacts were observed.

Steps taken to prevent recurrence: Maintain lower inventory when system is not in operation. Plan to increase size of containment.

Emergency Information

Communications equipment available at the spill site *(phone, radio, etc.)*: Radio, phone

Telephone number to reach spill site responders: 715-251-8300

Other agencies on scene during the spill incident: None

Sample Information

Results of spill sample collected for the following analysis, if applicable:

Total SS *(ppm/lb.)*: _____ Total BOD *(ppm/lb.)*: _____

pH: _____ Temperature: _____

Applicable to Wisconsin Spill Sites Only

Immediate action is the initial response actions taken to halt the spill, contain the discharge and/or remove contaminated environmental media to restore the environment to the extent practical.

Sampling is required at the completion of the immediate action if any of the following conditions exist:

- *Spill is in contact with groundwater;*
- *Spill amount, identity, or duration is unknown;*
- *Condition of site after cleanup indicates sampling is necessary to confirm the adequacy of the immediate action.*

If any of the above conditions exist, samples must be collected as discussed in Appendix A.

Stora Enso Representative

Name of person completing form: Kenneth Diehn
Print or Type

	11/20/06	715-251-8300
Signature	*Date*	*Telephone Number*

Moeller, Jason W - DNR

From: ken.diehn@storaenso.com
Sent: Wednesday, November 22, 2006 10:44 AM
To: Moeller, Jason W - DNR
Cc: steve.lewens@storaenso.com
Subject: MSDS for Alum

Attachments: 019822.txt

019822.txt (11 KB)

LIQUID ALUM by GENERAL CHEMICAL Revised On 4/11/2005

pH of material in containment is 2.2. I was not able to collect a sample from the tank.
I hope to later today.
Ken Diehn 715-251-8300

This message originated from Comply Plus Web (c) 2006 Dolphin Software, Inc.

Moeller, Jason W - DNR

From: Chronert, Roxanne N - DNR
Sent: Tuesday, November 21, 2006 11:22 AM
To: Joshua.J.McAtee@uscg.mil; Moeller, Jason W - DNR
Subject: RE: NRC#818708

Josh, thanks for the information. We did receive the notification earlier yesterday when the mill called the DNR wastewater engineer for the facility. Warden Kelly Crotty also responded.

Jason Moeller is the Spill Coordinator. He can be reached at 920-662-5492 or via e-mail (he is attached for easy reference).

P Roxanne Nelezen Chronert
Hydrogeologist Program Coordinator - Spill Response Team Bureau of Remediation and Redevelopment Wisconsin Department of Natural Resources
(*) phone: (920) 662-5488
(*) fax: (920) 662-5197
(*) cell: (920) 362-3981
(*) e-mail: roxanne.chronert@dnr.state.wi.us

-----Original Message-----
From: Joshua.J.McAtee@uscg.mil [mailto:Joshua.J.McAtee@uscg.mil]
Sent: Tuesday, November 21, 2006 8:57 AM
To: Chronert, Roxanne N - DNR; Brian Helfert
Subject: FW: NRC#818708

FYI, in case you didn't see this. Roxanne, I don't know who the DNR spill coordinator is for this area, but I did give Warden Tim Ebert a call yesterday afternoon and passed the info along to him.

Brian, I copied you in case you know any PD/FD up there by Niagara that may want to see this.

Just so you know - the USCG has no jurisdiction for this spill. We contacted the EPA and we were not too confidant that they will be taking care of it, so I'm just making sure everyone who may have an interest is aware.

V/r
Josh

-----Original Message-----
From: fldr-NRC@comdt.uscg.mil [mailto:fldr-NRC@comdt.uscg.mil]
Sent: Monday, November 20, 2006 2:40 PM
To: D09-DG-MSDSturgeon Bay-Staff
Subject: NRC#818708

NATIONAL RESPONSE CENTER - FLASH FAX
GOVERNMENT USE ONLYGOVERNMENT USE ONLY***
DO NOT RELEASE this information to the public without
permission from the NATIONAL RESPONSE CENTER 1-800-424-8802

Incident Report # 818708

INCIDENT DESCRIPTION

*Report taken by: CIV LOTTIE JOHNSON at 15:30 on 20-NOV-06
Incident Type: STORAGE TANK
Incident Cause: EQUIPMENT FAILURE
Affected Area: MENOMINEE RIVER
The incident was discovered on 20-NOV-06 at 08:00 local time.

Affected Medium: WATER / MENOMINEE RIVER

REPORTING PARTY

Name: KENNETH DIEHN
Organization: STORA ENSO
Address: 1101 MILL ST.
NIAGARA, WI 54151
STORA ENSO called for the responsible party.
PRIMARY Phone: (715)2518300
Type of Organization: PRIVATE ENTERPRISE

SUSPECTED RESPONSIBLE PARTY

Name: KENNETH DIEHN
Organization: STORA ENSO
Address: 1101 MILL ST.
NIAGARA, WI 54151
PRIMARY Phone: (715)2518300
Type of Organization: PRIVATE ENTERPRISE

INCIDENT LOCATION

1101 MILL ST. County: MARINETTE
City: NIAGARA State: WI

RELEASED MATERIAL(S)

CHRIS Code: ALM Official Material Name: ALUMINUM SULFATE
Also Known As:
Qty Released: 2165 GALLON(S) Qty in Water: 2165 GALLON(S)

DESCRIPTION OF INCIDENT

CALLER IS REPORTING A DISCHARGE OF ALUMINUM SULFATE FROM A STORAGE TANK DUE TO A RUPTURED LINE.

INCIDENT DETAILS

Description of Tank: STORAGE TANK
Tank Above/Below Ground: ABOVE
Transportable Container: NO
Tank Regulated: NO
Tank Regulated By:
Tank ID:
Capacity of Tank: 8000 GALLON(S)
Actual Amount: 7300 GALLON(S)
---WATER INFORMATION---
Body of Water: MENOMINEE RIVER
Tributary of: GREEN BAY
Nearest River Mile Marker:
Water Supply Contaminated: NO

DAMAGES

Fire Involved: NO Fire Extinguished: UNKNOWN
INJURIES: NO Hospitalized: Empl/Crew: Passenger:

FATALITIES: NO Empl/Crew: Passenger: Occupant:
EVACUATIONS:NO Who Evacuated: Radius/Area:
Damages: NO

Closure Type	Description of Closure	Hours Closed	Direction of Closure
Air: N			
Road: N			Major Artery: N
Waterway: N			
Track: N			

Passengers Transferred: NO
Media Interest: NONE Community Impact due to Material: NO

REMEDIAL ACTIONS

STOPPED THE SPILL, RECLAIMING REMAINDER IN THE TANK, MATERIAL DISSIPATED
Release Secured: YES
Release Rate:
Estimated Release Duration:

WEATHER

Weather: CLEAR, ºF

ADDITIONAL AGENCIES NOTIFIED

Federal: NONE
State/Local: WI DNR
State/Local On Scene:
State Agency Number:

NOTIFICATIONS BY NRC

USCG HSOC AT DHS (USCG HSOC DESK)
  20-NOV-06 15:39 (202)2828114
CG INVESTIGATIVE SVC CHICAGO (CGIS ROA CHICAGO)
  20-NOV-06 15:39 (630)9862181
DOT CRISIS MANAGEMENT CENTER (PRIMARY)
  20-NOV-06 15:39 (202)3661863
U.S. EPA V (PRIMARY)
  (312)3532318
FLD INTEL SUPPORT TEAM DETROIT (COMMAND CENTER)
  20-NOV-06 15:39 (216)8576279
NATIONAL INFRASTRUCTURE COORD CTR (PRIMARY)
  20-NOV-06 15:39 (202)2829201
NOAA RPTS FOR WI (PRIMARY)
  20-NOV-06 15:39 (206)5264911
SECTOR LAKE MICHIGAN (MSD STURGEON BAY)
  20-NOV-06 15:39 (414)7477182
MICHIGAN DEQ ATTN: THOR STRONG (PRIMARY)
  20-NOV-06 15:39 (517)2411252
WI DEPT NAT RES BUREAU OF LAW ENF (PRIMARY)
  20-NOV-06 15:39 (608)2662598
USCG DISTRICT 9 (COMMAND CENTER)
  20-NOV-06 15:39 (216)9026109
WISCONSIN DEPT OF EMERGENCY MGMT (PRIMARY)
  20-NOV-06 15:39 (608)2423232

ADDITIONAL INFORMATION

CALLER WILL NOTIFY MARINETTE COUNTY EPC.

*** END INCIDENT REPORT 818708 ***
Report any problems or Fax number changes by calling 1-800-424-8802
PLEASE VISIT OUR WEB SITE AT http://www.nrc.uscg.mil

Moeller, Jason W - DNR

From: Oman, Bruce S - DNR
Sent: Monday, November 20, 2006 4:36 PM
To: Moeller, Jason W - DNR
Subject: StoraEnso Spill

Jason

At 1:20 PM today Ken Diehn of StoraEnso Niagara reported a spill from a chemical feed storage tank. An estimated 2165 gallons of alum leaked from a storage tank overflowed the containment system made its way to drain and out to the Menominee River. The chemical feed system is part of the facilities wastewater treatment plant.

They estimated the leak occurred beginning around 11 AM Sunday Nov 19th and was discovered this morning. They are investigating the cause of the leak. I inquired about potential environmental damage and Ken said no adverse affects were observed.

I recommended he report the spill to the hotline as it wasn't strictly a wastewater spill and it didn't go through a permitted outfall.

Bruce