

NPDES Permit No. IL0003395  
Notice No. 13062501bwc.docx

Public Notice Beginning Date: **August 6, 2013**

Public Notice Ending Date: **September 5, 2013**

National Pollutant Discharge Elimination System (NPDES)  
Permit Program

Draft Reissued NPDES Permit to Discharge into Waters of the State

Public Notice/Fact Sheet Issued By:

Illinois Environmental Protection Agency  
Bureau of Water  
Division of Water Pollution Control  
Permit Section  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276  
217/782-0610

Name and Address of Discharger:

Dean Illinois Dairies, LLC  
6303 Maxon Road  
Harvard, Illinois 60033

Name and Address of Facility:

Dean Illinois Dairies, LLC  
6303 Maxon Road  
Harvard, Illinois 60033  
(McHenry County)

The Illinois Environmental Protection Agency (IEPA) has made a tentative determination to issue a NPDES permit to discharge into the waters of the state and has prepared a draft permit and associated fact sheet for the above named discharger. The Public Notice period will begin and end on the dates indicated in the heading of this Public Notice/Fact Sheet. The last day comments will be received will be on the Public Notice period ending date unless a commentor demonstrating the need for additional time requests an extension to this comment period and the request is granted by the IEPA. Interested persons are invited to submit written comments on the draft permit to the IEPA at the above address. Commentors shall provide his or her name and address and the nature of the issues proposed to be raised and the evidence proposed to be presented with regards to those issues. Commentors may include a request for public hearing. Persons submitting comments and/or requests for public hearing shall also send a copy of such comments or requests to the permit applicant. The NPDES permit and notice number(s) must appear on each comment page.

The application, engineer's review notes including load limit calculations, Public Notice/Fact Sheet, draft permit, comments received, and other documents are available for inspection and may be copied at the IEPA between 9:30 a.m. and 3:30 p.m. Monday through Friday when scheduled by the interested person.

If written comments or requests indicate a significant degree of public interest in the draft permit, the permitting authority may, at its discretion, hold a public hearing. Public notice will be given 45 days before any public hearing. Response to comments will be provided when the final permit is issued. For further information, please call Brian W. Cox at 217/782-0610.

The applicant is engaged in the processing (receiving, pasteurizing, homogenizing, vitaminizing and bottling) and distributing fluid milk, cream, and related dairy products (SIC 2026). Wastewater is generated from processing of fluid milk, equipment cleaning operations, sanitary wastes, boiler operations, water softener regeneration and non-contact cooling water. Plant operation results in an average discharge of 0.15 MGD of treated process waste, equipment cleaning waters, sanitary wastewater, water softener regenerate, and boiler blowdown from outfall A01, and 0.186 MGD of non-contact cooling water, treated wastewater from outfall A01, and stormwater from outfall 001.

The source of non-contact cooling water is on-site groundwater wells.

All process wastewater is treated in an on-site treatment system consisting of equalization and oxidation, bio-filtration, primary and secondary clarification, activated sludge oxidation, rapid sand filtration, and the option of utilizing breakpoint chlorination and dechlorination when necessary. Currently the facility adds urea to be utilized as an additional food source for the nitrifying bacteria which has aided in a more efficient nitrification process and minimized the need for the breakpoint chlorination process.

The following modifications are proposed:

The compliance point for total suspended solids (TSS), CBOD<sub>5</sub>, and fecal coliform has been changed to the point immediately following the final treatment unit, referred to in this permit as outfall A01. Previously, the compliance point for these parameters was placed on outfall 001 which allowed dilution of the treated process and sanitary wastewater with the facility's non-contact cooling water. Based on past DMR results, this dilution is no longer necessary to meet the effluent standards of Title 35 Ill. Adm. Code 304 and is therefore considered improper dilution. Thus, the compliance point for TSS, CBOD<sub>5</sub>, and fecal coliform has been moved to outfall A01 to comply with the requirements of Title 35 Ill. Adm. Code 304.102. As such, the load limits for TSS and CBOD<sub>5</sub> have been recalculated based on the design average and maximum flow of the facility's waste water treatment plant.

Total Nitrogen and phosphorus monitoring have been added to Outfall 001 for the purposes of obtaining data to aid in the Agency's nutrient management strategy.

The storm water pollution prevention plan requirements have been updated to reflect the Agency's current requirements and recommendations.

During emergency situations the Dean Illinois Dairies' Harvard facility's waste water treatment plant may receive wastewater from Dean Illinois Dairies' Huntley, IL facility, if all of the following conditions are met:

- a) The volume of wastewater discharged from the Huntley facility does not cause or contribute to flow rates in excess of the waste water treatment plants design maximum flow rate of 0.200 MGD; and
- b) The wastewater discharged consists only of process waste and equipment cleaning waters generated from the processing of fluid milk; and
- c) The following items shall be recorded and made available to the Agency upon request: total volume of wastewater received from the Huntley facility, the type of wastewater received, and the date(s) the wastewater is received from the Huntley facility is recorded.

Application is made for the existing discharge(s) which are located in McHenry County, Illinois. The following information identifies the discharge point, receiving stream and stream classifications:

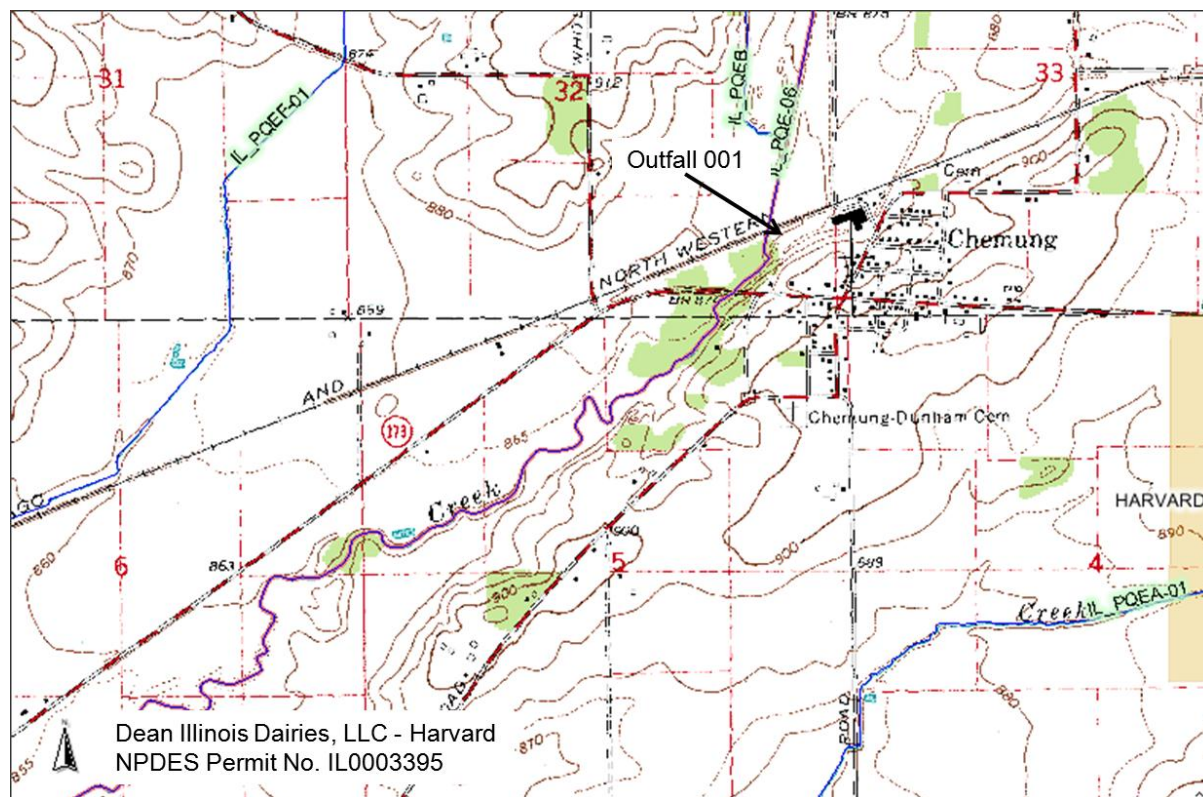
<u>Outfall</u>	<u>Receiving Stream</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Stream Classification</u>	<u>Integrity Rating</u>
001	Piscasaw Creek	42° 24' 55" North	88° 40' 00" West	General Use	A
A01	Piscasaw Creek via Outfall 001	42° 24' 55" North	88° 40' 00" West	General Use	A

To assist you further in identifying the location of the discharge please see the attached map.

The stream segment, IL PQE-06, receiving the discharge from outfall(s) 001 is on the 2012 303(d) list of impaired waters and is not a biologically significant stream on the 2008 Illinois Department of Natural Resources Publication – *Integrating Multiple Taxa in a Biological Stream Rating System*.

The following parameters have been identified as the pollutants causing impairment:

<u>Designated Use</u>	<u>Potential Cause</u>
Fish Consumption	Mercury



The discharge(s) from the facility shall be monitored and limited at all times as follows:

Outfall(s): 001

	LOAD LIMITS lbs/day DAF (DMF)*				CONCENTRATION LIMITS mg/L			
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	REGULATION		30 DAY AVERAGE	DAILY MAXIMUM	REGULATION	
Flow (MGD)					Monitor Only			
pH					Shall be within the range 6.0 – 9.0 s.u.			35 IAC 304.125
Temperature								35 IAC 302.211
Total Residual Chlorine						0.05		40 CFR 125.3
Total Nitrogen					Monitor Only			
Phosphorus					Monitor Only			
Ammonia Nitrogen (as N)	30-Day Avg.	Weekly Avg.	Daily Max		30-Day Avg.	Weekly Avg.	Daily Max	
Spring/Fall**	2.3 (3.2)	5.9 (8.1)	7.3 (10)	35 IAC 302.212 & 35 IAC 355	1.5	3.8	4.7	35 IAC 302.212 & 35 IAC 355
Summer***	2.3 (3.2)	5.9 (8.1)	7.8 (11)	35 IAC 302.212 & 35 IAC 355	1.5	3.8	5.0	35 IAC 302.212 & 35 IAC 355
Winter****	5.3 (7.3)	8.8 (12)	8.8 (12)	35 IAC 302.212 & 35 IAC 355	3.4	5.7	5.7	35 IAC 302.212 & 35 IAC 355

\* Load Limits based on design maximum flow shall apply only when flow exceeds the design average flow.

\*\*Spring/Fall consists of the following months: Mar.-May & Sept.-Oct.

\*\*\*Summer consists of the following months: June – August

\*\*\*\*Winter consists of the following months: November-February

Outfall(s): A01

	LOAD LIMITS lbs/day DAF (DMF)				CONCENTRATION LIMITS mg/L			
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	REGULATION		30 DAY AVERAGE	DAILY MAXIMUM	REGULATION	
Flow (MGD)					Monitor Only			
Total Suspended Solids	31 (42)	38 (50)	35 IAC 304.120 & 309.143		25	50		35 IAC 304.120
CBOD <sub>5</sub>	25 (33)	50 (67)	35 IAC 304.120 & 309.143		20	40		35 IAC 304.120
Fecal Coliform						400/100 mL		35 IAC 302.208
Ammonia Nitrogen (as N)					Monitor Only			

#### Load Limit Calculations:

- A. Load limit calculations for outfall 001 for the following pollutant parameters were based on an average flow of 0.186 MGD and a maximum flow of 0.257 MGD and using the formula of average or maximum flow (MGD) X concentration limit (mg/l) X 8.34 = the average or maximum load limit (lbs/day): ammonia nitrogen (as N).
- B. Load limit calculations for outfall A01 for the following pollutant parameters were based on an average flow of 0.150 MGD and a maximum flow of 0.200 MGD and using the formula of average or maximum flow (MGD) X concentration limit (mg/l) X 8.34 = the average or maximum load limit (lbs/day): CBOD<sub>5</sub> and total suspended solids.
- C. Production based load limits were calculated by first dividing the average BOD<sub>5</sub> input by a factor of 100, and then multiplying by the effluent limit contained in 40 CFR 405.22(a). Production figures utilized in these calculations for the following subcategories are as follows:

D.

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<u>Subcategory</u>		<u>ProductionRate</u>
Subpart B - Fluid Products Subcategory		207,200 lbs per day of BOD <sub>5</sub> generated from processing 2,000,000 lbs of milk /day.

BOD<sub>5</sub> and TSS limits were calculated using Federal production based load limits. The following sample calculation shows the methodology utilized to determine production based load limitations:

BOD daily max = 207,200 lbs BOD input x (0.338 lbs BOD effluent per 100 lbs BOD input) = 700 lbs BOD/day  
BOD 30-day ave = 207,200 lbs BOD input x (0.135 lbs BOD effluent per 100 lbs BOD input) = 280 lbs BOD/day  
TSS daily max = 207,200 lbs BOD input x (0.551 lbs TSS effluent per 100 lbs BOD input) = 700 lbs TSS/day  
TSS 30-day ave = 207,200 lbs BOD input x (0.203 lbs TSS effluent per 100 lbs BOD input) = 280 lbs TSS/day

The load limits appearing in the permit will be the more stringent of the State and Federal Guidelines.

The following explain the conditions of the proposed permit:

CBOD<sub>5</sub> and total suspended solids are limited in accordance to 35 IAC 304.120. The use of CBOD<sub>5</sub> instead of BOD<sub>5</sub> was authorized pursuant to the August 15, 1986 memorandum from Jim Park. Chlorine is not utilized on a daily basis.

Best Management Practices (BMPs) are required to be used to ensure that storm water runoff and pollution is minimized. These BMPs are required to be implemented as described in their storm water pollution prevention plan (SWPPP).

The special conditions contained in the permit serve to clarify effluent limitations and monitoring requirements including discharge monitoring report (DMR) submission requirements, monitoring location requirements, TRC monitoring requirements, Class K operator requirements, and temperature and pH limitations and monitoring requirements.

NPDES Permit No. IL0003395

Illinois Environmental Protection Agency

Division of Water Pollution Control

1021 North Grand Avenue East

Post Office Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date:

Issue Date:

Effective Date:

Name and Address of Permittee:

Dean Illinois Dairies, LLC  
6303 Maxon Road  
Harvard, Illinois 60033

Facility Name and Address:

Dean Illinois Dairies, LLC - Harvard  
6303 Maxon Road  
Harvard, Illinois 60033  
(McHenry County)

Discharge Number and Name:

001 Non-Contact Cooling Water, Treated Wastewater from  
Outfall A01, and Stormwater

Receiving Waters:

Piscasaw Creek

A01 Treated Process Wastewater, Sanitary Wastewater, Water  
Softener Regenerate, and Boiler Blowdown

Piscasaw Creek via Outfall 001

In compliance with the provisions of the Illinois Environmental Protection Act, Title 35 of Ill. Adm. Code, Subtitle C and/or Subtitle D, Chapter 1, and the Clean Water Act (CWA), the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Alan Keller, P.E.  
Manager, Permit Section  
Division of Water Pollution Control

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## NPDES Permit No. IL0003395

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 001 – Non-Contact Cooling Water, Treated Wastewater from Outfall A01, and Stormwater\*\*\*\*  
(DAF = 0.186 MGD)

	LOAD LIMITS lbs/day DAF (DMF)*			CONCENTRATION LIMITS mg/L				
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM		SAMPLE FREQUENCY	SAMPLE TYPE
Flow (MGD)	See Special Condition 1						1/Week	Measurement
pH	See Special Condition 2						1/Week	Grab
Temperature	See Special Condition 3						1/Week	Single Reading
Total Residual Chlorine					0.05		1/Week **	Grab
Total Nitrogen				Monitor Only			1/Quarter	Composite
Phosphorus				Monitor Only			1/Quarter	Composite
Ammonia Nitrogen (as N)	Monthly Average	Weekly Average	Daily Max	Monthly Average	Weekly Average	Daily Max		
Spring/Fall***	2.3 (3.2)	5.9 (8.1)	7.3 (10)	1.5	3.8	4.7	1/Week	Composite
Summer***	2.3 (3.2)	5.9 (8.1)	7.8 (11)	1.5	3.8	5.0	1/Week	Composite
Winter***	5.3 (7.3)	8.8 (12)	8.8 (12)	3.4	5.7	5.7	1/Week	Composite

\* Load Limits based on design maximum flow shall apply only when flow exceeds the design average flow.

\*\*See Special Condition 13

\*\*\* Spring/Fall consists of March – May and September – October

Summer consists of June – August

Winter consists of November – February

\*\*\*\*The limitations noted in the above table are not intended to apply to the stormwater portion of the discharge. See Special Condition 16 for storm water pollution prevention plan requirements.

Outfall(s): A01 – Treated Process Wastewater, Sanitary Wastewater, Water Softener Regenerate, and Boiler Blowdown (DAF = 0.15 MGD; DMF = 0.20 MGD)

	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/L			
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM	SAMPLE FREQUENCY	SAMPLE TYPE
Flow (MGD)	See Special Condition 1				1/Week	Measurement
Total Suspended Solids	31 (42)	38 (50)	25	50	1/Week	Composite
CBOD <sub>5</sub>	25 (33)	50 (67)	20	40	1/Week	Composite
Fecal Coliform				400/100 mL	1/Week	Grab
Ammonia Nitrogen (as N)			Monitor Only		1/Week	Composite

Special Conditions

**SPECIAL CONDITION 1.** Flow shall be measured in units of Million Gallons per Day (MGD) and reported as a monthly average and a daily maximum on the Discharge Monitoring Report.

**SPECIAL CONDITION 2.** The pH shall be in the range 6.0 to 9.0. The monthly minimum and monthly maximum values shall be reported on the DMR form.

**SPECIAL CONDITION 3.** This facility is not allowed any mixing with the receiving stream in order to meet applicable water quality thermal limitations. Therefore, discharge of wastewater from this facility must meet the following thermal limitations prior to discharge into the receiving stream.

- A. The discharge must not exceed the maximum limits in the following table during more than one percent of the hours in the 12 month period ending with any month. Moreover, at no time shall the water temperature of the discharge exceed the maximum limits in the following table by more the 1.7° C (3° F).

	<u>Jan.</u>	<u>Feb.</u>	<u>Mar.</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>Aug.</u>	<u>Sept.</u>	<u>Oct.</u>	<u>Nov.</u>	<u>Dec.</u>
°F	60	60	60	90	90	90	90	90	90	90	90	60
°C	16	16	16	32	32	32	32	32	32	32	32	16

- B. In addition, the discharge shall not cause abnormal temperature changes that may adversely affect aquatic life unless caused by natural conditions.
- C. The discharge shall not cause the maximum temperature rise above natural temperatures to exceed 2.8° C (5° F).
- D. The monthly maximum value shall be reported on the DMR form.

**SPECIAL CONDITION 4.** Samples taken in compliance with the effluent monitoring requirements for internal outfall A01 shall be taken at a point after the final treatment unit but prior to mixing with non-contact cooling water, stormwater, or any other dilutional waste streams.

**SPECIAL CONDITION 5.** Samples taken in compliance with the effluent monitoring requirements for outfall 001 shall be taken at a point representative of the combined effluents from internal outfall A01 and non-contact cooling water, but prior to mixing with stormwater or entry into the receiving stream.

**SPECIAL CONDITION 6.** The Permittee shall record monitoring results on Discharge Monitoring Report (DMR) Forms using one such form for each outfall each month.

In the event that an outfall does not discharge during a monthly reporting period, the DMR Form shall be submitted with no discharge indicated.

The Permittee may choose to submit electronic DMRs (eDMRs) instead of mailing paper DMRs to the IEPA. More information, including registration information for the eDMR program, can be obtained on the IEPA website, <http://www.epa.state.il.us/water/edmr/index.html>.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 15th day of the following month, unless otherwise specified by the permitting authority.

Permittees not using eDMRs shall mail Discharge Monitoring Reports with an original signature to the IEPA at the following address:

Illinois Environmental Protection Agency  
Division of Water Pollution Control  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section, Mail Code # 19

**SPECIAL CONDITION 7.** If an applicable effluent standard or limitation is promulgated under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a)(2) of the Clean Water Act and that effluent standard or limitation is more stringent than any effluent limitation in the permit or controls a pollutant not limited in the NPDES Permit, the Agency shall revise or modify the permit in accordance with the more stringent standard or prohibition and shall so notify the permittee.

**SPECIAL CONDITION 8.** For the purpose of this permit, the discharge from outfall 001 is limited to sanitary wastewater, water softener regenerate, boiler blowdown, non-contact cooling water, stormwater, and treated process waste and equipment cleaning waters generated from the processing of fluid milk, free from any other process or non-process wastewater discharges. In the event the



Special Conditions

permittee shall require the use of water treatment additives other than those previously approved by this Agency, or if the permittee increases the feed rate or quantity of the additives used beyond what has previously been approved by this Agency, the permittee shall request a modification of this permit in accordance with the Standard Conditions – Attachment H.

SPECIAL CONDITION 9. The use or operation of this facility shall be by or under the supervision of a Certified Class K operator.

SPECIAL CONDITION 10. No effluent shall contain settleable solids, floating debris, visible oil, grease, scum or sludge solids. Color, odor and turbidity must be reduced to below obvious levels.

SPECIAL CONDITION 11. The effluent, alone or in combination with other sources, shall not cause a violation of any applicable water quality standard outlined in 35 Ill. Adm. Code 302.

SPECIAL CONDITION 12. The Agency may request in writing submittal of operational information in a specified form and at a required frequency at any time during the effective period of this permit.

SPECIAL CONDITION 13. Sampling of TRC is required on a weekly basis during normal operations when chlorination is only occurring for disinfection of the plant's source water, for disinfection of fecal coliform, for operational and maintenance control, or when present in cooling water additives. Sampling is required on a daily basis during times of implementing the breakpoint chlorination process for the purposes of reducing ammonia (as N). Reporting shall be submitted with the Discharge Monitoring Reports on a monthly basis. Should chlorine not be utilized for a calendar month a notation shall be made in the comment field of the Discharge Monitoring Report for that month that chlorine was not utilized.

For the purpose of this permit Total Residual Chlorine means those substances which include combined and uncombined forms of both chlorine and bromine and which are expressed, by convention, as an equivalent concentration of molecular chlorine. All samples for Total Residual Chlorine shall be analyzed by an applicable method contained in 40 CFR 136, equivalent in accuracy to low-level amperometric titration. Any analytical variability of the method used shall be considered when determining the accuracy and precision of the results obtained.

SPECIAL CONDITION 14. During emergency situations the Dean Illinois Dairies' Harvard facility's waste water treatment plant may receive wastewater from Dean Illinois Dairies' Huntley, IL facility, if all of the following conditions are met:

- a) The volume of wastewater discharged from the Huntley facility does not cause or contribute to flow rates in excess of the waste water treatment plants design maximum flow rate of 0.200 MGD; and
- b) The wastewater discharged consists only of process waste and equipment cleaning waters generated from the processing of fluid milk; and
- c) The following items shall be recorded and made available to the Agency upon request: total volume of wastewater received from the Huntley facility, the type of wastewater received, and the date(s) the wastewater is received from the Huntley facility is recorded.

SPECIAL CONDITION 15. Quarterly sampling results shall be submitted to the IEPA with the March, June, September, and December DMRs each year, unless otherwise specified by the IEPA.

SPECIAL CONDITION 16.STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

A. A storm water pollution prevention plan shall be maintained by the permittee for the storm water associated with industrial activity at this facility. The plan shall identify potential sources of pollution which may be expected to affect the quality of storm water discharges associated with the industrial activity at the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. The permittee shall modify the plan if substantive changes are made or occur affecting compliance with this condition.

1. Waters not classified as impaired pursuant to Section 303(d) of the Clean Water Act.

Unless otherwise specified by federal regulation, the storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event.

2. Waters classified as impaired pursuant to Section 303(d) of the Clean Water Act

For any site which discharges directly to an impaired water identified in the Agency's 303(d) listing, and if any parameter in the subject discharge has been identified as the cause of impairment, the storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event. If required by federal regulations, the storm water pollution prevention plan shall adhere to a more restrictive design criteria.

B. The operator or owner of the facility shall make a copy of the plan available to the Agency at any reasonable time upon request.

Special Conditions

Facilities which discharge to a municipal separate storm sewer system shall also make a copy available to the operator of the municipal system at any reasonable time upon request.

- C. The permittee may be notified by the Agency at any time that the plan does not meet the requirements of this condition. After such notification, the permittee shall make changes to the plan and shall submit a written certification that the requested changes have been made. Unless otherwise provided, the permittee shall have 30 days after such notification to make the changes.
- D. The discharger shall amend the plan whenever there is a change in construction, operation, or maintenance which may affect the discharge of significant quantities of pollutants to the waters of the State or if a facility inspection required by paragraph H of this condition indicates that an amendment is needed. The plan should also be amended if the discharger is in violation of any conditions of this permit, or has not achieved the general objective of controlling pollutants in storm water discharges. Amendments to the plan shall be made within 30 days of any proposed construction or operational changes at the facility, and shall be provided to the Agency for review upon request.
- E. The plan shall provide a description of potential sources which may be expected to add significant quantities of pollutants to storm water discharges, or which may result in non-storm water discharges from storm water outfalls at the facility. The plan shall include, at a minimum, the following items:
  - 1. A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility's storm water discharges to a municipal storm drain system or other water body. The requirements of this paragraph may be included on the site map if appropriate. Any map or portion of map may be withheld for security reasons.
  - 2. A site map showing:
    - i. The storm water conveyance and discharge structures;
    - ii. An outline of the storm water drainage areas for each storm water discharge point;
    - iii. Paved areas and buildings;
    - iv. Areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate significant quantities of dust or particulates.
    - v. Location of existing storm water structural control measures (dikes, coverings, detention facilities, etc.);
    - vi. Surface water locations and/or municipal storm drain locations
    - vii. Areas of existing and potential soil erosion;
    - viii. Vehicle service areas;
    - ix. Material loading, unloading, and access areas.
    - x. Areas under items iv and ix above may be withheld from the site for security reasons.
  - 3. A narrative description of the following:
    - i. The nature of the industrial activities conducted at the site, including a description of significant materials that are treated, stored or disposed of in a manner to allow exposure to storm water;
    - ii. Materials, equipment, and vehicle management practices employed to minimize contact of significant materials with storm water discharges;
    - iii. Existing structural and non-structural control measures to reduce pollutants in storm water discharges;
    - iv. Industrial storm water discharge treatment facilities;
    - v. Methods of onsite storage and disposal of significant materials.
  - 4. A list of the types of pollutants that have a reasonable potential to be present in storm water discharges in significant quantities. Also provide a list of any pollutant that is listed as impaired in the most recent 303(d) report.
  - 5. An estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings.

Special Conditions

6. A summary of existing sampling data describing pollutants in storm water discharges.
- F. The plan shall describe the storm water management controls which will be implemented by the facility. The appropriate controls shall reflect identified existing and potential sources of pollutants at the facility. The description of the storm water management controls shall include:
1. Storm Water Pollution Prevention Personnel - Identification by job titles of the individuals who are responsible for developing, implementing, and revising the plan.
  2. Preventive Maintenance - Procedures for inspection and maintenance of storm water conveyance system devices such as oil/water separators, catch basins, etc., and inspection and testing of plant equipment and systems that could fail and result in discharges of pollutants to storm water.
  3. Good Housekeeping - Good housekeeping requires the maintenance of clean, orderly facility areas that discharge storm water. Material handling areas shall be inspected and cleaned to reduce the potential for pollutants to enter the storm water conveyance system.
  4. Spill Prevention and Response - Identification of areas where significant materials can spill into or otherwise enter the storm water conveyance systems and their accompanying drainage points. Specific material handling procedures, storage requirements, spill cleanup equipment and procedures should be identified, as appropriate. Internal notification procedures for spills of significant materials should be established.
  5. Storm Water Management Practices - Storm water management practices are practices other than those which control the source of pollutants. They include measures such as installing oil and grit separators, diverting storm water into retention basins, etc. Based on assessment of the potential of various sources to contribute pollutants, measures to remove pollutants from storm water discharge shall be implemented. In developing the plan, the following management practices shall be considered:
    - i. Containment - Storage within berms or other secondary containment devices to prevent leaks and spills from entering storm water runoff. To the maximum extent practicable storm water discharged from any area where material handling equipment or activities, raw material, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water should not enter vegetated areas or surface waters or infiltrate into the soil unless adequate treatment is provided.
    - ii. Oil & Grease Separation - Oil/water separators, booms, skimmers or other methods to minimize oil contaminated storm water discharges.
    - iii. Debris & Sediment Control - Screens, booms, sediment ponds or other methods to reduce debris and sediment in storm water discharges.
    - iv. Waste Chemical Disposal - Waste chemicals such as antifreeze, degreasers and used oils shall be recycled or disposed of in an approved manner and in a way which prevents them from entering storm water discharges.
    - v. Storm Water Diversion - Storm water diversion away from materials manufacturing, storage and other areas of potential storm water contamination. Minimize the quantity of storm water entering areas where material handling equipment or activities, raw material, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water using green infrastructure techniques where practicable in the areas outside the exposure area, and otherwise divert storm water away from exposure area.
    - vi. Covered Storage or Manufacturing Areas - Covered fueling operations, materials manufacturing and storage areas to prevent contact with storm water.
    - vii. Storm Water Reduction - Install vegetation on roofs of buildings within adjacent to the exposure area to detain and evapotranspire runoff where precipitation falling on the roof is not exposed to contaminants, to minimize storm water runoff; capture storm water in devices that minimize the amount of storm water runoff and use this water as appropriate based on quality.
  6. Sediment and Erosion Prevention - The plan shall identify areas which due to topography, activities, or other factors, have a high potential for significant soil erosion. The plan shall describe measures to limit erosion.
  7. Employee Training - Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution control plan. Training should address topics such as spill response, good housekeeping and material management practices. The plan shall identify periodic dates for such training.

Special Conditions

8. Inspection Procedures - Qualified plant personnel shall be identified to inspect designated equipment and plant areas. A tracking or follow-up procedure shall be used to ensure appropriate response has been taken in response to an inspection. Inspections and maintenance activities shall be documented and recorded.
- G. Non-Storm Water Discharge - The plan shall include a certification that the discharge has been tested or evaluated for the presence of non-storm water discharge. The certification shall include a description of any test for the presence of non-storm water discharges, the methods used, the dates of the testing, and any onsite drainage points that were observed during the testing. Any facility that is unable to provide this certification must describe the procedure of any test conducted for the presence of non-storm water discharges, the test results, potential sources of non-storm water discharges to the storm sewer, and why adequate tests for such storm sewers were not feasible.
- H. Quarterly Visual Observation of Discharges - The requirements and procedures for quarterly visual observations are applicable to all outfalls covered by this condition.
1. You must perform and document a quarterly visual observation of a storm water discharge associated with industrial activity from each outfall. The visual observation must be made during daylight hours. If no storm event resulted in runoff during daylight hours from the facility during a monitoring quarter, you are excused from the visual observations requirement for that quarter, provided you document in your records that no runoff occurred. You must sign and certify the document.
  2. Your visual observation must be made on samples collected as soon as practical, but not to exceed 1 hour or when the runoff or snow melt begins discharging from your facility. All samples must be collected from a storm event discharge that is greater than 0.1 inch in magnitude and that occurs at least 72 hours from the previously measureable (greater than 0.1 inch rainfall) storm event. The observation must document: color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. If visual observations indicate any unnatural color, odor, turbidity, floatable material, oil sheen or other indicators of storm water pollution, the permittee shall obtain a sample and monitor for the parameter or the list of pollutants in Part E.4.
  3. You must maintain your visual observation reports onsite with the SWPPP. The report must include the observation date and time, inspection personnel, nature of the discharge (i.e., runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.
  4. You may exercise a waiver of the visual observation requirement at a facility that is inactive or unstaffed, as long as there are no industrial materials or activities exposed to storm water. If you exercise this waiver, you must maintain a certification with your SWPPP stating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to storm water.
  5. Representative Outfalls - If your facility has two or more outfalls that you believe discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and storm water management practices occurring within the drainage areas of the outfalls, you may conduct visual observations of the discharge at just one of the outfalls and report that the results also apply to the substantially identical outfall(s).
  6. The visual observation documentation shall be made available to the Agency and general public upon written request.
- I. The permittee shall conduct an annual facility inspection to verify that all elements of the plan, including the site map, potential pollutant sources, and structural and non-structural controls to reduce pollutants in industrial storm water discharges are accurate. Observations that require a response and the appropriate response to the observation shall be retained as part of the plan. Records documenting significant observations made during the site inspection shall be submitted to the Agency in accordance with the reporting requirements of this permit.
- J. This plan should briefly describe the appropriate elements of other program requirements, including Spill Prevention Control and Countermeasures (SPCC) plans required under Section 311 of the CWA and the regulations promulgated there under, and Best Management Programs under 40 CFR 125.100.
- K. The plan is considered a report that shall be available to the public at any reasonable time upon request.
- L. The plan shall include the signature and title of the person responsible for preparation of the plan and include the date of initial preparation and each amendment thereto.
- M. Facilities which discharge storm water associated with industrial activity to municipal separate storm sewers may also be subject to additional requirement imposed by the operator of the municipal system

Construction Authorization

Authorization is hereby granted to construct treatment works and related equipment that may be required by the Storm Water Pollution

Special Conditions

Prevention Plan developed pursuant to this permit.

This Authorization is issued subject to the following condition(s).

- N. If any statement or representation is found to be incorrect, this authorization may be revoked and the permittee there upon waives all rights there under.
- O. The issuance of this authorization (a) does not release the permittee from any liability for damage to persons or property caused by or resulting from the installation, maintenance or operation of the proposed facilities; (b) does not take into consideration the structural stability of any units or part of this project; and (c) does not release the permittee from compliance with other applicable statutes of the State of Illinois, or other applicable local law, regulations or ordinances.
- P. Plans and specifications of all treatment equipment being included as part of the stormwater management practice shall be included in the SWPPP.
- Q. Construction activities which result from treatment equipment installation, including clearing, grading and excavation activities which result in the disturbance of one acre or more of land area, are not covered by this authorization. The permittee shall contact the IEPA regarding the required permit(s).

REPORTING

- R. The facility shall submit an electronic copy of the annual inspection report to the Illinois Environmental Protection Agency. The report shall include results of the annual facility inspection which is required by Part I of this condition. The report shall also include documentation of any event (spill, treatment unit malfunction, etc.) which would require an inspection, results of the inspection, and any subsequent corrective maintenance activity. The report shall be completed and signed by the authorized facility employee(s) who conducted the inspection(s). The annual inspection report is considered a public document that shall be available at any reasonable time upon request.
- S. The first report shall contain information gathered during the one year time period beginning with the effective date of coverage under this permit and shall be submitted no later than 60 days after this one year period has expired. Each subsequent report shall contain the previous year's information and shall be submitted no later than one year after the previous year's report was due.
- T. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.
- U. The permittee shall retain the annual inspection report on file at least 3 years. This period may be extended by request of the Illinois Environmental Protection Agency at any time.

Annual inspection reports shall be mailed to the following address:

Illinois Environmental Protection Agency  
Bureau of Water  
Compliance Assurance Section  
Annual Inspection Report  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276

- V. The permittee shall notify any regulated small municipal separate storm sewer owner (MS4 Community) that they maintain coverage under an individual NPDES permit. The permittee shall submit any SWPPP or any annual inspection to the MS4 community upon request by the MS4 community.

