

NPDES Permit No. IL0001643
Notice No. JMC: 11090101 IL0001643 Flint Hills Resources

Public Notice Beginning Date: **June 13, 2012**

Public Notice Ending Date: **July 13, 2012**

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:

Flint Hills Resources Chemical Intermediates, LLC
P.O. Box 941
Joliet, Illinois 60434

Name and Address of Facility:

Flint Hills Resources Chemical Intermediates, LLC
23425 Amoco Road
Channahon, Illinois 60410
(Will 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 James M. Cowles at 217/782-0610.

The applicant is engaged in the manufacturing of isophthalic acid (IPA), maleic anhydride (MAN) and trimellitic anhydride (TMA). Process steam, inert gas and deionized water are produced for internal use (SIC 2865). Waste water is generated from the manufacturing process, analytical lab, fire field, impacted groundwater, impacted stormwater, utilities and boiler blowdown, reverse osmosis reject, cooling tower blowdowns and sanitary waste. Non-impacted stormwater is discharged separately. Plant operation results in an average discharge of 1.22 MGD of treated process wastewater, analytical lab waste, fire field waste, impacted groundwater and stormwater, utilities waste and alternate sanitary route from outfall 001, intermittent discharge of stormwater, non-process wastewater, and hydrostatic test wastewater from outfalls 002, 003, and 005, and 0.025 MGD of treated sanitary waste from outfall 004.

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

Outfall	Receiving Stream	Latitude		Longitude		Stream Classification	Biological Stream Characterization
001 and 004	Des Plaines River	41° 26' 52"	North	88° 10' 05"	West	Secondary Contact and Indigenous Aquatic Life	C
002	Des Plaines River	41° 26' 57"	North	88° 10' 08"	West	Secondary Contact and Indigenous Aquatic Life	C
003	Des Plaines River	41° 26' 11"	North	88° 10' 41"	West	Secondary Contact and Indigenous Aquatic Life	C
005	Des Plaines River	41° 26' 43"	North	88° 10' 13"	West	Secondary Contact and Indigenous Aquatic Life	C

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

The stream segment (G-12) receiving the discharge from outfall(s) 001, 002, 003, 004, and 005 is on the 2012 303 (d) list of impaired waters. The following parameters have been identified as the pollutants causing impairment:

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

Potential Cause	Designated Use
PCB's and Mercury	Fish Consumption

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

Outfall: 001

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
pH				Shall be in range of 6 to 10 S.U.		35 IAC 304.125(d)(2)
BOD ₅	186.16	432.35	40 CFR 414.71 35 IAC 309.143	20	40	35 IAC 304.120
Total Suspended Solids	312.75	864.69	40 CFR 414.71 35 IAC 309.143	25	50	35 IAC 304.120
Manganese	9.307	21.617	35 IAC 304.124 309.143	1	2	35 IAC 304.124
Acenaphthene	0.124	0.334	35 IAC 309.143	0.022	0.059	40 CFR 414.91
Acrylonitrile	0.543	1.368	35 IAC 309.143	0.096	0.242	40 CFR 414.91
Benzene	0.209	0.769	35 IAC 309.143	0.037	0.136	40 CFR 414.91
Carbon Tetrachloride	0.102	0.215	35 IAC 309.143	0.018	0.038	40 CFR 414.91
Chlorobenzene	0.085	0.158	35 IAC 309.143	0.015	0.028	40 CFR 414.91

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
1,2,4-Trichlorobenzene	0.385	0.792	35 IAC 309.143	0.068	0.140	40 CFR 414.91
Hexachlorobenzene	0.085	0.158	35 IAC 309.143	0.015	0.028	40 CFR 414.91
1,2-Dichloroethane	0.385	1.193	35 IAC 309.143	0.068	0.211	40 CFR 414.91
1,1,1-Trichloroethane	0.119	0.305	35 IAC 309.143	0.021	0.054	40 CFR 414.91
Hexachloroethane	0.119	0.305	35 IAC 309.143	0.021	0.054	40 CFR 414.91
1,1-Dichloroethane	0.124	0.334	35 IAC 309.143	0.022	0.059	40 CFR 414.91
1,1,2-Trichloroethane	0.119	0.305	35 IAC 309.143	0.021	0.054	40 CFR 414.91
Chloroethane	0.588	1.515	35 IAC 309.143	0.104	0.268	40 CFR 414.91
2-Chlorophenol	0.175	0.554	35 IAC 309.143	0.031	0.098	40 CFR 414.91
1,2-Dichlorobenzene	0.435	0.922	35 IAC 309.143	0.077	0.163	40 CFR 414.91
1,3-Dichlorobenzene	0.175	0.249	35 IAC 309.143	0.031	0.044	40 CFR 414.91
1,4-Dichlorobenzene	0.085	0.158	35 IAC 309.143	0.015	0.028	40 CFR 414.91
1,1-Dichloroethylene	0.090	0.140	35 IAC 309.143	0.016	0.025	40 CFR 414.91
1,2-Trans-dichloroethylene	0.119	0.305	35 IAC 309.143	0.021	0.054	40 CFR 414.91
2,4-Dichlorophenol	0.221	0.633	35 IAC 309.143	0.039	0.112	40 CFR 414.91
1,2-Dichloropropane	0.865	1.301	35 IAC 309.143	0.153	0.23	40 CFR 414.91
1,3-Dichloropropylene	0.164	0.249	35 IAC 309.143	0.029	0.044	40 CFR 414.91
4,6-Dinitro-o-cresol	0.441	1.566	35 IAC 309.143	0.078	0.277	40 CFR 414.91
Phenol	0.085	0.147	35 IAC 309.143	0.015	0.026	40 CFR 414.91
Bis (2-ethylhexyl)phthalate	0.582	1.578	35 IAC 309.143	0.103	0.279	40 CFR 414.91
Di-n-butyl phthalate	0.153	0.322	35 IAC 309.143	0.027	0.057	40 CFR 414.91
Diethyl phthalate	0.458	1.148	35 IAC 309.143	0.081	0.203	40 CFR 414.91
Dimethyl phthalate	0.107	0.266	35 IAC 309.143	0.019	0.047	40 CFR 414.91
Benzo(a)anthracene	0.124	0.334	35 IAC 309.143	0.022	0.059	40 CFR 414.91
Benzo(a)pyrene	0.130	0.345	35 IAC 309.143	0.023	0.061	40 CFR 414.91
3,4 Benzofluoranthene	0.130	0.345	35 IAC 309.143	0.023	0.061	40 CFR 414.91
Benzo (k)fluoranthene	0.124	0.334	35 IAC 309.143	0.022	0.059	40 CFR 414.91
Chrysene	0.124	0.334	35 IAC 309.143	0.022	0.059	40 CFR 414.91
Acenaphthylene	0.124	0.334	35 IAC 309.143	0.022	0.059	40 CFR 414.91
Anthracene	0.124	0.334	35 IAC 309.143	0.022	0.059	40 CFR 414.91
2,4-Dimethylphenol	0.102	0.204	35 IAC 309.143	0.018	0.036	40 CFR 414.91
2,6-Dinitrotoluene	1.442	3.625	35 IAC 309.143	0.255	0.641	40 CFR 414.91

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
2,4-Dinitrotoluene	0.639	1.612	35 IAC 309.143	0.113	0.285	40 CFR 414.91
Ethylbenzene	0.181	0.611	35 IAC 309.143	0.032	0.108	40 CFR 414.91
Fluoranthene	0.141	0.385	35 IAC 309.143	0.025	0.068	40 CFR 414.91
Methylene Chloride	0.226	0.503	35 IAC 309.143	0.04	0.089	40 CFR 414.91
Methyl Chloride	0.483	1.074	35 IAC 309.143	0.086	0.190	40 CFR 414.91
Hexachlorobutadiene	0.113	0.277	35 IAC 309.143	0.02	0.049	40 CFR 414.91
Naphthalene	0.124	0.334	35 IAC 309.143	0.022	0.059	40 CFR 414.91
Nitrobenzene	0.153	0.385	35 IAC 309.143	0.027	0.068	40 CFR 414.91
2-Nitrophenol	0.232	0.390	35 IAC 309.143	0.041	0.069	40 CFR 414.91
4-Nitrophenol	0.407	0.701	35 IAC 309.143	0.072	0.124	40 CFR 414.91
2,4-Dinitrophenol	0.401	0.696	35 IAC 309.143	0.071	0.123	40 CFR 414.91
Fluorene	0.124	0.334	35 IAC 309.143	0.022	0.059	40 CFR 414.91
Chloroform	0.119	0.260	35 IAC 309.143	0.021	0.046	40 CFR 414.91
Phenanthrene	0.124	0.334	35 IAC 309.143	0.022	0.059	40 CFR 414.91
Pyrene	0.141	0.379	35 IAC 309.143	0.025	0.067	40 CFR 414.91
Tetrachloroethylene	0.124	0.317	35 IAC 309.143	0.022	0.056	40 CFR 414.91
Toluene	0.147	0.452	35 IAC 309.143	0.026	0.08	40 CFR 414.91
Trichloroethylene	0.119	0.305	35 IAC 309.143	0.021	0.054	40 CFR 414.91
Vinyl Chloride	0.588	1.515	35 IAC 309.143	0.104	0.268	40 CFR 414.91
Chromium (total)	6.277	15.660	35 IAC 309.143	1	2	35 IAC 304.124
Copper	4.654	10.810	35 IAC 304.124 & 309.143	0.5	1.0	35 IAC 304.124
Cyanide (total)	0.931	2.162	35 IAC 304.124 & 309.143	0.1	0.2	35 IAC 304.124
Lead	1.809	3.902	35 IAC 304.124 & 309.143	0.2	0.4	35 IAC 304.124
Nickel	9.307	21.617	35 IAC 304.124 & 309.143	1	2	35 IAC 304.124
Zinc	5.937	14.758	40 CFR 414.91	1	2	35 IAC 304.124
Xylene(s)				Monitor Only		35 IAC 309.143

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Outfall: 004						
pH				Shall be in range of 6 to 9 S.U.		35 IAC 304.125
CBOD ₅	5.21	10.43	35 IAC 304.120 & 309.143	25	50	35 IAC 304.120
Total Suspended Solids	6.26	12.51	35 IAC 304.120 & 309.143	30	60	35 IAC 304.120

Outfall: 002, 003, and 005 Hydrostatic Test Water Discharge			Monitor Only		
Flow (MGD)					
pH			Shall be in range of 6 to 9 S.U.		35 IAC 304.125
Total Suspended Solids			15	30	35 IAC 304.124(a)
Iron (Total)			2.0	4.0	35 IAC 304.124(a)
Oil & Grease			15	30	35 IAC 304.124(a)
Total Residual Chlorine				0.05	35 IAC 302.208(e) & 40 CFR 125.3

Load Limit Calculations - Outfall 001:

- A. Load limit calculations for the following pollutant parameters were based on the wastewater treatment plant design average flow of 1.116 MGD and a maximum flow of 1.296 MGD and using the formula of design average or maximum flow (MGD) X concentration limit (mg/l) X 8.34 = the average or maximum load limit (lbs/day): BOD₅, manganese, copper, cyanide (total), lead, nickel.
- B. Load limit calculations for BOD₅ were also calculated based on an long term average process flow of 0.701 MGD and using the formula average process flow (MGD) x federal 30-day average or daily maximum concentration limit (mg/L) x 8.34 = the average or maximum load limit (lbs/day).
- C. Load limit calculations for total suspended solids (TSS) were based on an the design average or maximum flow of the wastewater and utility treatment plant and using the formula of wastewater treatment plant design average or maximum flow (MGD) X concentration limit (mg/l) X 8.34 + utility treatment plant design average or maximum flow (MGD) X concentration limit (mg/l) X 8.34 = the average or maximum load limit (lbs/day).
- D. Load limit calculations for total suspended solids were also based on an the long term average flow of 0.701 MGD from the wastewater treatment system and a long term average flow of 0.519 MGD (1.01 MGD Long Term Maximum Flow)) from the utility treatment plant and using the formula of (design average flow of wastewater treatment plant (MGD) X federal concentration limit (mg/l) X 8.34) + (utility waste design average or maximum flow (MGD) X state based concentration limit (mg/l) X 8.34) = the average or maximum load limit (lbs/day).
- E. Load limit calculations for all other parameters were based on an average flow of 0.701 MGD and using the formula of average flow (MGD) x the average or maximum federal concentration limit (mg/l) x 8.34 = the average or maximum load limit (lbs/day).

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

Total Suspended Solids load based limits for parts C and D above utilized combined waste stream methodology.

Load Limit calculations - Outfall 004:

Load limit calculations for BOD₅ and total suspended solids were based on an average and maximum flow of 0.025 MGD and using the formula of average or maximum flow (MGD) x state concentration limit (mg/l) x 8.34 = the average or maximum load limit (lbs/day).

An antidegradation analysis was not performed because there were no increases in load limits or concentration limits.

The following explain the conditions of the proposed permit:

Outfall 001 is limited to process discharges, lab wastewater, fire field waste water, impacted groundwater, utility water and alternate route for sanitary wastes, and is regulated utilizing Federal Guidelines found in 40 CFR 414 and State effluent and water quality criteria. The more stringent guidelines or limits are utilized to regulate Outfall 001.

Outfalls 002, 003 and 005 are stormwater discharges and are regulated through monitoring requirements and best management practices established in the Storm Water Pollution Prevention Plan.

The permittee may discharge hydrostatic test water as described in the NPDES permit. Hydrostatic test water not defined in NPDES water may be routed to the wastewater treatment plant. In order to prevent the transfer of biologic organisms from one water body to another, hydrostatic test water withdrawn from any water body may only be returned to its origin. Alternatively, the permittee may discharge hydrostatic test water from any municipal or deep well source to any of the named receiving streams provided the water will not cause a violation of water quality standards. If any treatment process other than chlorination is to be used for biological treatment, approval from the Illinois EPA must be obtained prior to treatment.

Discharge Monitoring Report (DMR) forms will be required to be submitted monthly to the Agency. Aquatic toxicity screening will be required once per year.

The facility has requested a waiver of monitoring for a number of OCPSF regulated chemicals pursuant to 40 CFR 122.44 (a)(2). The Agency has decided to grant this waiver request based upon monitoring data and an analysis provided by the facility of the processes employed at the facility and knowledge of the raw materials utilized, and expected products and by-products. This waiver is good for the term of this permit and may be revoked upon notification that the facility's processes or raw materials have changed or other evidence is provided that would indicate the introduction of a waived pollutant parameter into the waste stream. Certification to continue monitoring waiver will be required as part of the renewal application of the permit. The compounds that will have continued monitoring are 2,4-dimethylphenol, benzene, bis(2-ethylhexyl)phthalate, ethylbenzene, methyl chloride, methylene chloride, naphthalene, toluene, phenol, chromium, copper, lead, nickel and zinc. All other compounds found in 40 CFR 414 Subpart I will be granted the monitoring waiver.

A reasonable potential to exceed water quality criteria analysis was performed on the facility's discharge using Agency samples and self monitoring samples. The analysis was performed on the standard metals list and the BTEX parameters whether detected or not and any other pollutant detected. The only organic compounds detected were benzene, toluene, xylenes, atrazine, acetone and methyl-tert-butyl ether. Metals detected were barium, copper, iron (total), manganese, strontium and boron. The reasonable potential to exceed water quality criteria analysis concluded that there was no reasonable potential to exceed water quality criteria for any compound.

Public Notice of Draft Permit

Public Notice Number JMC:11090101jmc IL0001643 Flint Hills Resources is hereby given by Illinois EPA, Division of Water Pollution Control, Permit Section, 1021 North Grand Avenue East, Post Office Box 19276, Springfield, Illinois 62794-9276 (herein Agency) that a draft National Pollutant Discharge Elimination System (NPDES) Permit Number IL0001643 has been prepared under 40 CFR 124.6(d) for Flint Hills Resources Chemical Intermediates, LLC , LP, P.O. Box 941, Joliet, Illinois 60434 for discharge into Des Plaines River from Flint Hills Resources Chemical Intermediates, LLC, 23425 Amoco Road, Channahon, Illinois 60410. The applicant is engaged in the manufacturing of isophthalic acid, maleic anhydride and trimellitic anhydride (SIC 2865). Plant operation results in a discharge of 1.22 MGD of treated process water, lab wastewater, fire field wastewater, impacted groundwater, utility water and alternate route for sanitary waste from outfall 001, an intermittent discharge of stormwater, hydrostatic test water, and non-process wastewater from outfalls 002, 003, and 005, and 0.025 MGD of treated sanitary waste from outfall 004.

The application, draft permit and other documents are available for inspection and may be copied at the Agency between 9:30 A.M. and 3:30 P.M. Monday through Friday. A Fact Sheet containing more detailed information is available at no charge. For further information, call the Public Notice Clerk at 217/782-0610.

Interested persons are invited to submit written comments on the draft permit to the Agency at the above address. The NPDES Permit and Joint Public Notice numbers must appear on each comment page. All comments received by the Agency not later than 30 days from the date of this publication shall be considered in making the final decision regarding permit issuance.

Any interested person may submit written request for a public hearing on the draft permit, stating their name and address, the nature of the issues proposed to be raised and the evidence proposed to be presented with regards to these issues in the hearing. Such requests must be received by the Agency not later than 30 days from the date of this publication.

If written comments and/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 30 days before any public hearing.

SAK:11090101 IL0001643 Flint Hills Resources

NPDES Permit No. IL0001643

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:

Facility Name and Address:

Flint Hills Resources Chemical Intermediates, LLC
P.O. Box 941
Joliet, Illinois 60434

Flint Hills Resources Chemical Intermediates, LLC
23425 Amoco Road
Channahon, Illinois 60410
(Will County)

Discharge Number and Name:

Receiving Waters:

001: Treated Process Water, Lab Wastewater, Fire Field Wastewater,
Impacted Groundwater, Utility Water and Alternate Route for Sanitary
Waste, Treated Stormwater

Des Plaines River

002, 003, and 005: Stormwater, Non-Process Wastewater, and
Hydrostatic Test Wastewater

Des Plaines River

004: Treated Sanitary Wastes

Des Plaines River

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

SAK:JMC:11090101 IL0001643 Flint Hills Resources

NPDES Permit No. IL0001643

Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		

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*

Design Average Flow = 2.318 MGD (Long Term Average Flow = 1.22 MGD)						
Flow (MGD)					Daily	Continuous
TOC			****	****	1/Day	Composite
pH	See Special Condition 2.				1/Day	Grab
BOD ₅	186.16	432.35	20	40	3/Week	Composite
Total Suspended Solids	312.75	864.69	25	50	1/Day	Composite**
Manganese	9.307	21.617	1	2	1/Week	Composite
Acenaphthene	0.124	0.334	0.022	0.059	***	Grab
Acrylonitrile	0.543	1.368	0.096	0.242	***	Grab
Benzene	0.209	0.769	0.037	0.136	***	Grab
Carbon Tetrachloride	0.102	0.215	0.018	0.038	***	Grab
Chlorobenzene	0.085	0.158	0.015	0.028	***	Grab
1,2,4-Trichlorobenzene	0.385	0.792	0.068	0.14	***	Grab
Hexachlorobenzene	0.085	0.158	0.015	0.028	***	Grab
1,2-Dichloroethane	0.385	1.193	0.068	0.211	***	Grab
1,1,1-Trichloroethane	0.119	0.305	0.021	0.054	***	Grab
Hexachloroethane	0.119	0.305	0.021	0.054	***	Grab
1,1-Dichloroethane	0.124	0.334	0.022	0.059	***	Grab
1,1,2-Trichloroethane	0.119	0.305	0.021	0.054	***	Grab
Chloroethane	0.588	1.515	0.104	0.268	***	Grab
2-Chlorophenol	0.175	0.554	0.031	0.098	***	Grab
1,2-Dichlorobenzene	0.435	0.922	0.077	0.163	***	Grab
1,3-Dichlorobenzene	0.175	0.249	0.031	0.044	***	Grab
1,4 Dichlorobenzene	0.085	0.158	0.015	0.028	***	Grab
1,1-Dichloroethylene	0.090	0.140	0.016	0.025	***	Grab

NPDES Permit No. IL0001643

Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
1,2-Trans-dichloroethylene	0.119	0.305	0.021	0.054	***	Grab
2,4-Dichlorophenol	0.221	0.633	0.039	0.112	***	Grab
1,2-Dichloropropane	0.865	1.301	0.153	0.23	***	Grab
1,3-Dichloropropylene	0.164	0.249	0.029	0.044	***	Grab
4,6-Dinitro-o-cresol	0.441	1.566	0.078	0.277	***	Grab
Phenol	0.085	0.147	0.015	0.026	***	Grab
Bis (2-ethylhexyl)phthalate	0.582	1.578	0.103	0.279	***	Grab
Di-n-butyl phthalate	0.153	0.322	0.027	0.057	***	Grab
Diethyl phthalate	0.458	1.148	0.081	0.203	***	Grab
Dimethyl phthalate	0.107	0.266	0.019	0.047	***	Grab
Benzo (a)anthracene	0.124	0.334	0.022	0.059	***	Grab
Benzo (a)pyrene	0.130	0.345	0.023	0.061	***	Grab
3,4 Benzofluoranthene	0.130	0.345	0.023	0.061	***	Grab
Benzo (k)fluoranthene	0.124	0.334	0.022	0.059	***	Grab
Chrysene	0.124	0.334	0.022	0.059	***	Grab
Acenaphthylene	0.124	0.334	0.022	0.059	***	Grab
Anthracene	0.124	0.334	0.022	0.059	***	Grab
2,4-Dimethylphenol	0.102	0.204	0.018	0.036	***	Grab
2,6-Dinitrotoluene	1.442	3.625	0.255	0.641	***	Grab
2,4-Dinitrotoluene	0.639	1.612	0.113	0.285	***	Grab
Ethylbenzene	0.181	0.611	0.032	0.108	***	Grab
Fluoranthene	0.141	0.385	0.025	0.068	***	Grab
Methylene Chloride	0.226	0.503	0.04	0.089	***	Grab
Methyl Chloride	0.486	1.074	0.086	0.19	***	Grab
Hexachlorobutadiene	0.113	0.277	0.02	0.049	***	Grab
Naphthalene	0.124	0.334	0.022	0.059	***	Grab

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Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
Nitrobenzene	0.153	0.385	0.027	0.068	***	Grab
2-Nitrophenol	0.232	0.390	0.041	0.069	***	Grab
4-Nitrophenol	0.407	0.701	0.072	0.124	***	Grab
2,4-Dinitrophenol	0.401	0.696	0.071	0.123	***	Grab
Fluorene	0.124	0.334	0.022	0.059	***	Grab
Chloroform	0.119	0.260	0.021	0.046	***	Grab
Phenanthrene	0.124	0.334	0.022	0.059	***	Grab
Pyrene	0.141	0.379	0.025	0.067	***	Grab
Tetrachloroethylene	0.124	0.317	0.022	0.056	***	Grab
Toluene	0.147	0.452	0.026	0.08	***	Grab
Trichloroethylene	0.119	0.305	0.021	0.054	***	Grab
Vinyl Chloride	0.588	1.515	0.104	0.268	***	Grab
Chromium (total)	6.277	15.660	1	2	***	Composite
Copper	4.654	10.810	0.5	1.0	***	Composite
Cyanide (total)	0.931	2.161	0.1	0.2	***	Composite
Lead	1.809	3.902	0.2	0.4	***	Composite
Nickel	9.307	21.617	1	2	***	Composite
Zinc	5.937	14.758	1	2	***	Composite
Xylene(s)			Monitor Only		1/Quarter*****	Grab
*See Special Condition 15. **See Special Condition 22. ***See Special Condition 16. ****Report Concentration (mg/l) – See Special Condition 11. *****See Special Condition 17.						

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Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
Outfall: 004* DAF = 0.025 MGD						
DAF: 0.025 MGD						
Flow					Daily	Continuous
pH	See Special Condition 1.				1/Week	Grab
CBOD ₅	5.21	10.43	25	50	1/Week	Composite
Total Suspended Solids	6.26	12.51	30	60	1/Week	Composite
*See Special Condition 7.						
Outfalls: 002*, 003* and 005*						
Flow			Monitor Only		1/Month	Measurement
pH			Monitor Only		1/Month	Grab**
Total Suspended Solids			Monitor Only		1/Month	Composite**
Oil and Grease			Monitor Only		1/Month	Grab**
Manganese			Monitor Only		1/Month	Grab**
TOC***			Monitor Only		1/Month	Grab**
<p>*See Special Condition 14. **See Special Condition 13. ***Report Concentration (mg/l) – See Special Condition 11.</p>						

Hydrostatic Test Water Discharge Requirements from Outfalls 002, 003, and 005.

PARAMETER	LOAD LIMITS lbs/day <u>DAF (DMF)</u>		CONCENTRATION LIMITS mg/l		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
Outfalls: 002*, 003*, and 005*						
Flow	See Special Condition 7.				Daily When Discharging	Measurement
pH	See Special Condition 1.				Daily When Discharging	Grab
Total Suspended Solids			15	30	Daily When Discharging	Grab
Iron (Total)			2.0	4.0	Daily When Discharging	Grab
Oil and Grease			15	30	Daily When Discharging	Grab
Total Residual Chlorine**				0.05	Daily When Discharging	Grab

*See Special Condition 20 for allowable hydrostatic test water and other discharges allowed to stormwater outfalls.

*See Special Condition 21 for addition requirements for Hydrostatic Test Water Discharges from Outfalls 002, 003, and 005.

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Special Conditions

SPECIAL CONDITION 1. (Outfall 004) 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 2. (Outfall 001) The pH shall be in the range of 6.0 to 10.0. The monthly minimum and monthly maximum values shall be reported on the DMR form.

SPECIAL CONDITION 3. 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 25th day of the following month, unless otherwise specified by the permitting authority (See Special Condition 17).

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 4. Flow shall be reported in units of Million Gallons per Day (MGD) as a monthly average and daily maximum value.

SPECIAL CONDITION 5. The provisions contained in 40 CFR 122.41 M and N are applicable to this permit.

SPECIAL CONDITION 6. The use or operation of this facility shall be by or under the supervision of a Certified Class K operator.

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. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.

SPECIAL CONDITION 9. For the purpose of this permit, the discharge from outfall 004 is limited to treated sanitary wastewater, free from process and other wastewater discharges.

SPECIAL CONDITION 10. For the purpose of this permit, the discharge from Outfall 001 shall be limited to process water, fire field waste water, impacted groundwater, lab wastewater, utility water and alternate route for sanitary waste. In the event that the permittee shall require a change in use of water treatment additives reviewed as part of the renewal application, the permittee must request a change in this permit in accordance with the Standard Conditions -- Attachment H.

SPECIAL CONDITION 11. Testing for toxic organic pollutants at outfalls 001, 002, 003, and 005 shall be performed utilizing analytical test methods approved under 40 CFR 136 or other approved procedures. Laboratory results shall be reported on the DMR's in units of mg/L down to analytical detection limits which shall be comparable with the method detection limits in 40 CFR 136.

SPECIAL CONDITION 12. The permittee shall conduct biomonitoring of the effluent from outfall 001 in May of each year.

Biomonitoring

1. Acute Toxicity - Standard definitive acute toxicity tests shall be run on at least two trophic levels of aquatic species (fish, invertebrate) representative of the aquatic community of the receiving stream. Testing must be consistent with Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms (Fifth Ed.) EPA/821-R-02-012. Unless substitute tests are pre-approved; the following tests are required:

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- a. Fish - 96 hour static LC₅₀ Bioassay using fathead minnows (*Pimephales promelas*).
 - b. Invertebrate 48-hour static LC₅₀ Bioassay using *Daphnia magna*.
2. Test Samples - The above tests shall be conducted using 24-hour composite samples unless otherwise authorized by the IEPA.
 3. Reporting - Results shall be reported according to EPA/821-R-02-012, Section 12, Report Preparation, and shall be submitted to IEPA, Bureau of Water, Compliance Assurance Section within one week of receipt from the laboratory.
 4. Toxicity Reduction Evaluation - Should the results of the biomonitoring program identify toxicity, the IEPA may require that the Permittee prepare a plan for toxicity reduction evaluation and identification. This plan shall be developed in accordance with Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants, EPA/833B-99/002, and shall include an evaluation to determine which chemicals have a potential for being discharged in the plant wastewater, a monitoring program to determine their presence or absence and to identify other compounds which are not being removed by treatment, and other measures as appropriate. The Permittee shall submit to the IEPA its plan for toxicity reduction evaluation within ninety (90) days following notification by the IEPA. The Permittee shall implement the plan within ninety (90) days or other such date as contained in a notification letter received from the IEPA.

The IEPA may modify this Permit during its term to incorporate additional requirements or limitations based on the results of the biomonitoring. In addition, after review of the monitoring results, the IEPA may modify this Permit to include numerical limitations for specific toxic pollutants. Modifications under this condition shall follow public notice and opportunity for hearing.

SPECIAL CONDITON 13. Stormwater Sampling Procedures:

All samples shall be collected from the discharge resulting from a storm event greater than 0.1 inches and at least 72 hours from previously measurable (greater than 0.1 inch rainfall) storm event. Where feasible, the variance in the duration of the event and the total rainfall of the event should not exceed 50 percent from the average or median rainfall event in that area.

A grab sample shall be taken during the first 30 minutes of the discharge (or as soon thereafter as practicable), and composite shall be taken for the entire event with first sample taken during first 30 minutes of discharge (or as soon thereafter as practicable).

If no measurable rainfall event takes place in a reporting month, then sampling shall be conducted on the dry weather flow conditions of outfalls, 002, 003, and 005. In these instances, an 8 h-hour composite sample will be collected with two aliquots drawn during the first collection, one of which will be grab sample.

Grab and composite samples are defined as follows:

Grab Sample: An individual sample of at least 100 milliliters collected during the first 30 minutes (or as soon thereafter as practicable) of the discharge. This sample is to be analyzed separately from the composite sample. If sampling on dry weather base flow, the grab sample shall be collected at the same time as the first aliquot collected for an 8-hour composite sample.

Composite Sample: A composite shall consist of a combination of a minimum of one sample aliquots taken in each hour of discharge for the entire event, with each aliquot being at least 100 milliliters and collected with a minimum period of fifteen minutes between aliquot collections. The first aliquot shall be collected during the first 30 minutes of discharge when sampling during a rain event. If sampling on dry weather base flow, the composite shall consist of at least three aliquots collected over an 8-hour period. Aliquots shall be collected at times such that they are representative of the 8-hour period, and each aliquot shall be at least 100 milliliters in volume. Aliquots may be collected manually or automatically.

SPECIAL CONDITION 14.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

- A. A storm water pollution prevention plan shall be developed 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.
- B. The plan shall be completed within 180 days of the effective date of this permit. Plans shall provide for compliance with the terms of the plan within 365 days of the effective date of this permit. The owner or operator of the facility shall make a copy of the plan available to the Agency at any reasonable time upon request. [Note: If the plan has already been developed and implemented it shall be maintained in accordance with all requirements of this special condition.]

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- 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 G 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 the shortest reasonable period of time, 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.
 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.
 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.
 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.
 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:

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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;
 - 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;
 - vi. Covered Storage or Manufacturing Areas - Covered fueling operations, materials manufacturing and storage areas to prevent contact with storm water.
 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 and 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.
 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. 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.
- H. 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 thereunder, and Best Management Programs under 40 CFR 125.100.
- I. The plan is considered a report that shall be available to the public under Section 308(b) of the CWA. The permittee may claim portions of the plan as confidential business information, including any portion describing facility security measures.

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J. 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.

Construction Authorization

K. Authorization is hereby granted to construct treatment works and related equipment that may be required by the Storm Water Pollution Prevention developed pursuant to this permit.

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

1. If any statement or representation is found to be incorrect, this authorization may be revoked and the permittee there upon waives all rights thereunder.
2. 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.
3. Plans and specifications of all treatment equipment being included as part of the stormwater management practice shall be included in the SWPPP.
4. Construction activities which result from treatment equipment installation, including cleaning, grading and excavation activities which result in the disturbance of five acres or more of land area, are not covered by this authorization. The permittee shall contact the IEPA regarding the required permit(s).

REPORTING

L. The facility shall submit an annual inspection report to the Illinois Environmental Protection Agency. The report shall include results of the annual facility inspection which is required by Part G of the Storm Water Pollution Prevention Plan of this permit. 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).

M. 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.

N. 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

O. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.

SPECIAL CONDITION 15. The facility will be required to calculate the reportable concentration values at Outfall 001 if the sampling point is located after the wastewater treatment plant effluent and the Utility wastewaters have mixed.

Utility wastewater consists of boiler blow down, non- contact cooling water blow down, and utilities reverse osmosis wastewater.

Reportable Concentration Value = Measured Concentration Value times (Total Waste Stream (Utility Wastewater plus Waste Water Treatment Plant flow) divided by Waste Water Treatment flow)

Flows shall be determined by flow meters, calculation, or best professional estimate depending on the wastewater flows occurring during monitoring.

The calculated actual concentration shall be reported on the DMR with an example of the calculation attached to the submitted DMR with flows utilized per test date.

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pH is not subject to this condition.

SPECIAL CONDITION 16. The facility has been granted a waiver of monitoring for some of the OCPSF regulated pollutants found in 40 CFR 414 Subpart I pursuant to 40 CFR 122.44 (a)(2).

The compounds that will have continued monitoring are 2,4-dimethyl phenol, benzene, bis(2-ethylhexyl)phthalate, ethylbenzene, methyl chloride, methylene chloride, naphthalene, toluene, phenol, chromium, copper, lead, nickel and zinc. Monitoring for these compounds will be required 2/Year. See Special Condition 17 for monitoring and reporting schedule.

All other OCPSF regulated pollutants under 40 CFR 414 Subpart I will not be required to be monitored. This waiver is good for the term of the permit but may be revoked, with notice and opportunity for hearing, upon notification that the facility's processes or raw materials have changed or other evidence is provided that would indicate the introduction of a waived pollutant parameter into the waste stream. Certification of no process change or raw material change is required to continue the monitoring waiver and shall be submitted with the renewal application for this permit.

The permittee shall provide the Illinois Environmental Protection Agency with information on any new chemical that contains a known amount of any of the waived OCPSF chemicals which the facility proposes to utilize in the process of development, production, and wastewater treatment. The information to be submitted to the Agency may include the following:

1. Brand name
2. Function of the chemical
3. Material Safety Data Sheet
4. Manufacturer Technical Specifications Data, if available
5. Proposed use at the facility including frequency, duration, and rate of use
6. An evaluation of the potential routes of entry into the waste water system

The Agency will conduct a timely evaluation of the information to determine the chemical's impact, if any, on the monitoring waiver described in this Condition. Agency approval of the new chemical must be received by the permittee prior to the new chemical's use at the facility. Upon review of the submitted information, the Agency shall advise the permittee if the monitoring waiver is to be revoked for any of the OCPSF regulated pollutants upon use of the new chemical.

Please refer to Special Condition 18, and 19 for addition procedures required for the monitoring waiver.

SPECIAL CONDITION 17. The analytical results or reports shall be submitted according to the following schedule.

<u>Frequency:</u>	<u>Reporting Date:</u>
1/Month or Less	Following Month DMR
1/Quarter*	Following Month DMR after Quarter
2/Year**	Reported on the July, and January DMRs
1/Year	Reported in the Following Year on the January DMR

*Quarters are January-March, April-June, July-September, and October-December

**Samples taken during January-June reported in July, and during July-December reported in January.

SPECIAL CONDITION 18. The facility will be required to monitor all OCPSF regulated pollutants found in 40 CFR 414 Subpart I pursuant to 40 CFR 414 Subpart O in the influent waste stream prior to the wastewater treatment system within six months of permit renewal submission.

The required testing shall be submitted with the renewal submittal package.

The influent monitoring shall be at a point that monitors the process waste stream prior to mixing with any other dilutional waste streams or impacted stormwater/groundwater.

The Agency may use this information to remove constituents from the monitoring waiver request granted.

SPECIAL CONDITION 19. If the permittee proposes to use a water treatment additive in the waste treatment facility or in the non-contact cooling water system not currently in use at the facility, the following information must be submitted to the Agency for review and approval prior to the additive's use.

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1. Brand name.
2. The function of the water treatment additive.
3. The Material Safety Data Sheet (MSDS) for the additive, which must include:
 - a. Product Ingredients.
 - b. Aquatic life toxicity estimates for the product.
4. The proposed application rate of the product, including:
 - a. The frequency and duration of usage.
 - b. The dose (ppm) and the application rate (gallons/day) within the system.
 - c. The volume (MGD) of water the product is applied into.
5. Information regarding the fate of the product within the system, such as:
 - a. Neutralization – Dechlorination or pH buffering.
 - b. Degradation – Breakdown within the system, with a retention pond, or from biological treatment.
 - c. Internal dilution with other waste streams prior to outfall.
6. A flow diagram showing the point of application within the system.
7. The final outfall from which the additive would be discharged.
8. The estimated concentration of the final product.

The Agency will conduct a timely evaluation of the information to determine the water treatment additive's impact, if any, on the waste treatment system or the non-contact cooling water system. The additive shall not be used until Agency approval has been issued.

SPECIAL CONDITION 20. Hydrostatic Test Water and Other Discharges allowed to Outfall 002, 003, and 005.

For the purpose of this Permit, discharges from Outfalls 002, 003, and 005 shall be limited to storm water, free from process and other wastewater discharges except that the following non-stormwater discharges are authorized from Outfalls 002, 003, and 005: discharges from fire fighting activities; fire hydrant flushings and test waters; waters used to wash vehicles without the use of detergents only if performed in unconnected areas to the stormwater system; waters used to control uncontaminated dust; irrigation drainage from; lawn watering; routine external building washdown that does not include detergents; pavement washwaters outside process area where spills or leaks of toxic or hazardous material have not occurred (unless all spilled material has been removed) and where detergents are not used; air condenser condensate; condensate from refrigerants; foundation drains not contaminated or adjacent to process areas; and hydrostatic test waters as long as they are used in new piping and equipment so that the water does not come into contact with process chemicals and materials.

Hydrostatic test water must comply with requirements established on page 6 of this permit and Special Condition 21.

The permittee may discharge additional hydrostatic test water from other sources not listed above if the field office verifies that the system being tested is free of all process wastewater and chemical materials. See Special Condition 21(d) for contact information.

All discharges allowed above shall adhere to Special Conditions 21(a), 21(b), and 21(c).

SPECIAL CONDITION 21. Hydrostatic Test Water Requirements from Outfalls 002, 003, and 005.

- a. In addition to other requirements of this permit, no effluent shall contain settleable solids, floating debris, visible oil, grease, scum, or sludge solids. Color (including color resulting from dyes or tracers in the hydrostatic test water) odor and turbidity shall be reduced to below obvious levels.
- b. Appropriate measures shall be taken to prevent water quality impacts resulting from soil erosion due to the discharge. The discharge flow rate shall be controlled so as not to cause scouring or other damage to stream beds or banks.
- c. Solid wastes such as straw used for filtering or erosion control shall be disposed of in accordance with state and federal law.
- d. The permittee shall provide telephone notification to the IEPA Des Plaines Regional Office at, 815/987-7760, at least 1 week prior to any hydrostatic pipeline testing which may result in a discharge.
- e. When test water is discharged to the same waterbody from which it was withdrawn, compliance with the numerical effluent standards is not required when effluent concentrations in excess of the standards result entirely from influent contamination, evaporation, and/or the incidental addition of traces of materials not utilized or produced in the hydrostatic test activity that is the source of the waste.
- f. When the wastewater contains or could contain total residual chlorine (TRC), the permittee will be required to test for TRC as described on page 6 of this permit.

All samples for total residual chlorine (TRC) 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.

The water quality standards for TRC (0.011 mg/L ave. and 0.019 mg/L max.) are below the method detection level (0.05 mg/L) as

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described in 40 CFR 136. Therefore, for the purpose of this permit, the method detection level will be utilized to determine compliance with the permit limit for TRC. A measurement of <0.05 mg/L reported on the DMR shall not be considered a violation of the water quality based effluent limit. This reporting threshold is being established to determine compliance and does not authorize the discharge of TRC in excess of the water quality based effluent limit.

g. Except for the situation described in (A) below, the permittee shall only discharge hydrostatic test water to the origin from which the source water was drawn. For all treatment programs, including chlorination, written notification to the Illinois EPA shall be submitted and shall include a complete description of the proposed treatment process as well as information explaining the basis of design. Only those treatment programs approved by the Illinois EPA may be implemented. The permit may be modified to include additional limits and conditions following public notice and opportunity for hearing.

(A)The permittee may discharge hydrostatic test water from any municipal source to any of the watersheds identified above provided the water will not cause any violation of water quality standards. If the source water is chlorinated then the water must meet the limit for total residual chlorine listed on page two of this permit prior to discharge. The permittee shall provide written notification to the Illinois EPA in the event that treatment processes other than chlorination are to be utilized for biological treatment. The notification shall include a description of the proposed treatment process along with basis of design information. Only those treatment programs approved by the Illinois EPA may be implemented. The permit may be modified to include additional limits and conditions based on the alternative treatment proposed. Any modification of the permit will follow public notice and opportunity for a public hearing.

CONSTRUCTION AUTHORIZATION

Authorization is hereby granted to construct treatment works and related equipment that may be required to treat hydrostatic test water.

This Authorization is subject to the following conditions:

1. If any statement or representation is found to be incorrect, this authorization may be revoked and the permittee thereupon waives all rights thereunder.
2. 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.
3. Plans and specifications of all treatment equipment for the control of biological organisms, including but not limited to zebra mussels, shall be submitted to the Illinois EPA for approval prior to construction and operation.
4. Any modification of or deviation from the plans and specifications originally submitted must be approved by the Illinois EPA prior to initiation.

Construction activities which result from treatment equipment installation, including clearing, grading and excavation activities which result in a disturbance of one acre or more of land area are not covered by this authorization. The permittee shall contact the Illinois EPA regarding required permits.

SPECIAL CONDITION 22: Total Suspended Solids Sampling Procedure

The Agency in September 13, 2010 letter granted Flint Hills Resources permission to collect Total Suspended Solids from Outfall 001 as follows:

It is acceptable to collect 8 individual grab samples for total suspended solids for Outfall 001 and report the results as a mathematical composite on the DMR's, provided that the 8 individual grab samples will be collected as periodic intervals during the operating hours of the facility over a 24-hr period, and the mathematical composite will be representative of the discharge from Outfall 001.

The Agency will allow Flint Hills Resources to continue this alternative sampling procedure for Total Suspended Solids from Outfall 001.