BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

FLINT HILLS RESOURCES JOLIET, LLC,	)	
Petitioner,	)	
v.	)	PCB 16-24 (Time-Limited Water Quality Standard)
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,	)	
Respondent.	)	

NOTICE OF FILING

TO: Don Brown
Clerk of the Board
Illinois Pollution Control Board
100 W. Randolph Street, Suite 11-500
Chicago, Illinois 60601
(VIA ELECTRONIC MAIL)

Brad Halloran
Hearing Officer
Illinois Pollution Control Board
100 W. Randolph Street, Suite 11-500
Chicago, Illinois 60601
(VIA ELECTRONIC MAIL)

(SEE PERSONS ON ATTACHED SERVICE LIST)

PLEASE TAKE NOTICE that I have today filed with the Office of the Clerk of the Illinois Pollution Control Board **FLINT HILLS RESOURCES JOLIET, LLC'S AMENDED PETITION FOR A TIME-LIMITED WATER QUALITY STANDARD FOR TEMPERATURE**, a copy of which is herewith served upon you.

Respectfully submitted,

FLINT HILLS RESOURCES JOLIET, LLC,
Petitioner,

Dated: July 26, 2018

By: /s/ Joshua J. Houser
One of Its Attorneys

Katherine D. Hodge
Joshua J. Houser
HEPLERBROOM, LLC
4340 Acer Grove Drive
Springfield, Illinois 62711
Katherine.Hodge@heplerbroom.com
Joshua.Houser@heplerbroom.com
(217) 528-3674

CERTIFICATE OF SERVICE

I, the undersigned, on oath state the following:

That I have served the attached **FLINT HILLS RESOURCES JOLIET, LLC'S AMENDED PETITION FOR A TIME-LIMITED WATER QUALITY STANDARD FOR TEMPERATURE** via electronic mail upon:

Don Brown
Clerk of the Board
Illinois Pollution Control Board
100 W. Randolph Street, Suite 11-500
Chicago, Illinois 60601
Don.Brown@illinois.gov

Brad Halloran
Hearing Officer
Illinois Pollution Control Board
100 W. Randolph Street, Suite 11-500
Chicago, Illinois 60601
Brad.Halloran@illinois.gov

Sara Terranova
Division of Legal Counsel
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276
Sara.Terranova@illinois.gov

Albert Ettinger
Law Firm of Albert Ettinger
53 W. Jackson, Suite 1664
Chicago, Illinois 60604
Ettinger.Albert@gmail.com

That my email address is Joshua.Houser@heplerbroom.com.

That the number of pages in the email transmission is 77 pages.

That the email transmission took place before 5:00 p.m. on the date of July 26, 2018.

/s/ Joshua J. Houser
Joshua J. Houser

Date: July 26, 2018

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

FLINT HILLS RESOURCES JOLIET, LLC,	)	
Petitioner,	)	
v.	)	PCB 16-24 (Time-Limited Water Quality Standard)
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY,	)	
Respondent.	)	

FLINT HILLS RESOURCES JOLIET, LLC'S AMENDED PETITION FOR A TIME-LIMITED WATER QUALITY STANDARD FOR TEMPERATURE

Flint Hills Resources Joliet, LLC ("Flint Hills"), by and through its attorneys, HEPLERBROOM, LLC, pursuant to Section 38.5 of the Illinois Environmental Protection Act ("Act"), 415 ILCS 5/38.5, and 35 Ill. Admin. Code § 104.100 *et seq.*, hereby petitions the Illinois Pollution Control Board ("Board") for coverage under a multiple discharger ("multi-discharger") time-limited water quality standard ("TLWQS") from the temperature standard adopted by the Board at 35 Ill. Admin. Code §§ 302.408(b), (c), (d), (e), (f), and (i) ("Temperature Standard") for Flint Hills' Joliet Facility ("Facility") pursuant to the terms and conditions outlined in this Amended Petition for a Time-Limited Water Quality Standard for Temperature ("Amended Petition"). As more fully discussed below, the requested temperature multi-discharger TLWQS includes portions of the waterbody defined by the Board and the Illinois Environmental Protection Agency ("Illinois EPA") in this proceeding. *See* Order of the Board, PCB No. 16-24, at 1-2 (Ill.Pol.Control.Bd. June 8, 2017) (establishing the class of dischargers that may be covered by a TLWQS for temperature as "heated effluent dischargers into Chicago Sanitary and Ship Canal, and Upper Dresden Island Pool, including Flint Hills . . . ."). As set forth herein,

Flint Hills is requesting coverage for discharges from its Facility under this temperature multi-discharger TLWQS for effluent limitations and water quality standards.

This individual Amended Petition is supplemented by certain information provided in Midwest Generation, LLC's ("MWGen") Amended Petition for Time-Limited Water Quality Variance for temperature ("MWGen Amended Petition") filed with the Board in PCB No. 16-19 on June 27, 2018. The MWGen Amended Petition follows the required regulatory structure established by 35 Ill. Admin. Code Part 104, Subpart E (the TLWQS regulations) and provides certain information that is commonly applicable to dischargers that may be covered by this temperature multi-discharger TLWQS. This commonly applicable information in the MWGen Amended Petition can supplement other discharger-specific information filed with the Board by other dischargers in their individual petitions pursuant to 35 Ill. Admin. Code § 104.530(d). Accordingly, where appropriate, Flint Hills refers to and incorporates herein information from the MWGen Amended Petition that is commonly applicable to Flint Hills for this temperature multi-discharger TLWQS.

Thus, this Amended Petition provides Flint Hills' discharger-specific information required for coverage under the temperature multi-discharger TLWQS and, where appropriate, references and incorporates required information provided in the MWGen Amended Petition. 35 Ill. Admin. Code §§ 104.530 and 104.560 provide the information that must be included in TLWQS petitions. This Amended Petition addresses each of these requirements below.

I. REQUIRED PETITION CONTENTS (35 ILL. ADMIN. CODE § 104.530(a), (b)(1))

A. Statement Indicating the Type of TLWQS Sought (35 Ill. Admin. Code § 104.530(a)(1))

For this information, please refer to Section IV.A at page 25 of the MWGen Amended Petition, which Flint Hills incorporates herein by reference.

B. Identification of the Currently Applicable Water Quality Standard for the Pollutant or Parameter for Which a TLWQS Is Sought (35 Ill. Admin. Code § 104.530(a)(2))

The currently applicable water quality standards for temperature for which this multi-discharger TLWQS is sought are found in 35 Ill. Adm. Code Sections 302.408(c), (d), (e), (f), and (i). For additional information, please refer to Sections IV.D.2, IV.D.3, and IV.D.4 at pages 31-35 of the MWGen Amended Petition, which Flint Hills incorporates herein by reference.

C. Location of the Petitioner's Activity and the Location of the Points of Its Discharge (35 Ill. Admin. Code § 104.530(a)(3))

The Facility is located on a 270-acre tract of land located in Channahon, Illinois. The site is approximately 41 miles southwest of Chicago. The Des Plaines River is immediately east and southeast of the Facility. Tank Properties, LLC is immediately north and the BP Amoco Landfill is immediately south of the Facility.

For information regarding Flint Hills' specific discharge locations, a map of the Facility's outfalls from Flint Hills' 2017 National Pollutant Discharge Elimination System ("NPDES") Permit Renewal Application is provided in Exhibit 1. Flint Hills is requesting that all of its outfalls be covered by the temperature waterbody TLWQS.

D. Map of the Proposed Watershed, Water Body or Waterbody Segment to Which the TLWQS Will Apply, As Well As a Written Description of the Watershed, Water Body, or Waterbody Segment, Including the Associated Segment Code (35 Ill. Admin. Code § 104.530(a)(4))

For this information, please refer to Section IV.B, including subsections, at pages 25-26 of the MWGen Amended Petition, which Flint Hills incorporates herein by reference.

E. Designated Uses of the Water Body or Waterbody Segment Identified in Subsection (a)(4) (35 Ill. Admin. Code § 104.530(a)(5))

For this information, please refer to Section IV.D.1 at pages 29-31 of the MWGen Amended Petition, which Flint Hills incorporates herein by reference.

F. Data Describing the Nature and Extent of the Present or Anticipated Failure to Meet the Water Quality Standard or Standards and Facts that Support Petitioner's Argument that Compliance with the Water Quality Standards Regulation or Regulations Cannot Be Achieved by Any Required Compliance Date (35 Ill. Admin. Code § 104.530(a)(6))

For this information, please refer to Sections IV.F.1, IV.F.2, and IV.F.3 at pages 36-40 of the MWGen Amended Petition, which Flint Hills incorporates herein by reference.

In addition, discharge data demonstrating that the temperature of the Facility's effluent can exceed the Temperature Standard is provided in Exhibit 2.

G. Demonstration That Attainment of the Designated Use(s) and Criterion or Criteria Is Not Feasible Throughout the Term of the TLWQS Because of One or More of the Factors Listed in Section 104.560(a) (35 Ill. Admin. Code § 104.530(a)(7))

For this information, please refer to Section IV.G, including all subsections, at pages 41-65 of the MWGen Amended Petition, which Flint Hills incorporates herein by reference.

H. Identification, Including the Board's Docket Number, of Any Prior Water Quality Standards Variances/TLWQSs Issued to the Petitioner, Watershed, Water Body, Waterbody Segment, and, If Known, the Petitioner's Predecessors, Concerning Similar Relief (35 Ill. Admin. Code § 104.530(a)(8))

Based upon best information and belief, neither Flint Hills nor any of its predecessors have been issued a prior water quality standards variance or TLWQS regarding relief that is similar to what is requested in this Amended Petition.

I. Identification, by Name of the Permit Holder and Permit Number, of the Permits Held by Dischargers That May Be Affected by the Adoption of the TLWQS (35 Ill. Admin. Code § 104.530(a)(9))

For this information, please refer to Section IV.I at page 65 of the MWGen Amended Petition, which Flint Hills incorporates herein by reference. As listed therein, Flint Hills' NPDES Permit No. IL0001643 ("NPDES Permit") (attached as Exhibit 3) will be affected by the adoption of the temperature multi-discharger TLWQS. In addition, Flint Hills' pending NPDES

permit renewal application filed with Illinois EPA in 2017 may be affected by the adoption of the temperature multi-discharger TLWQS.

J. Identification and Description of Any Process, Activity, or Source That Contributes to a Violation of a Water Quality Standard, Including the Material Used in That Process or Activity (35 Ill. Admin. Code § 104.530(a)(10))

For this information, please refer to Section IV.L at pages 72-73 of the MWGen Amended Petition, which Flint Hills incorporates herein by reference.

Specifically to Flint Hills, the Facility discharges water to the Lower Des Plaines River ("LDPR") as authorized by its NPDES Permit. The Facility has five permitted outfalls. Outfall 001 is located directly east of the wastewater treatment plant and discharges treated process water, lab wastewater, fire field wastewater, impacted groundwater, utility water and alternate route for sanitary waste, and treated stormwater. Outfalls 002, 003, and 005 are located along the eastern edge of the property, adjacent to the Des Plaines River, and discharge stormwater, non-process wastewater, and hydrostatic test wastewater. Outfall 004 is co-located with Outfall 001 and discharges treated sanitary wastes. The permitted average flows from Outfalls 001 and 004 are 2.318 MGD and 0.025 MGD respectively. Flows from Outfalls 002, 003, and 005 are intermittent. In the absence of elevated intake temperatures, the Facility would be able to use the Illinois allowed mixing provision at 35 Ill. Admin. Code § 302.102 to demonstrate compliance with thermal standards.

The Facility's primary waste treatment process for treating process sewer water consists of anaerobic, aerobic, clarification, and air floatation processes. The anaerobic reactor must be operated at approximately 100 ºF. After the anaerobic reactor, natural heat loss to the atmosphere results in ambient cooling as the water passes through four aerobic treatment basins operated at approximately 80 ºF to support aerobic activity. The water then passes through three

clarifiers, and finally one air floatation channel before heading to Outfall 001. This process typically contributes 60 - 80 % of the discharge annually to Outfall 001. The second contributor to Outfall 001 is a process for treating the clean water utility streams from the process. Clean water utility streams include cooling tower blowdown, boiler blowdown, water filter backwash, and reject water from the Facility's reverse osmosis and filtration systems. This process consists of a storage tank and anthracite filters. Outfall 004 is the effluent from the sanitary sewer system, which includes an aerobic and clarification process. This process contributes approximately 6 gpm of flow to the river.

K. Description and Copy of All Pollutant Minimization Plans That Are Relevant to the Relief Requested and Are Currently Being Implemented or Were Implemented in the Past (35 Ill. Admin. Code § 104.530(a)(11))

For this information, please refer to Section IV.M at page 73 of the MWGen Amended Petition, which Flint Hills incorporates herein by reference.

Specifically to Flint Hills, the Facility discharges to the Lower Des Plaines River as authorized by its NPDES Permit and as described in Section I.J of this Amended Petition. The Facility's primary process water waste treatment and sanitary waste treatment are operated within very specific design parameters to maintain healthy aerobic and anaerobic bacterial activity to ensure compliance with NPDES Permit discharge limits for Outfalls 001 and 004. Stormwater discharges from Outfalls 002, 003, and 005 are intermittent and at ambient temperature.

L. The Proposed Highest Attainable Condition of the Watershed, Water Body, or Waterbody Segment Identified in Subsection (a)(4) Expressed As Set Forth in Section 104.565(d)(4), Including Projected Changes in the Highest Attainable Condition Throughout the Proposed Term of the TLWQS (35 Ill. Admin. Code § 104.530(a)(12))

For this information, please refer to Section IV.J, including subsections, at pages 66-70 of the MWGen Amended Petition, which Flint Hills incorporates herein by reference.

M. Demonstration of the Pollutant Control Activities Proposed to Achieve the Highest Attainable Condition, Including Those Activities Identified Through a Pollutant Minimization Program (35 Ill. Admin. Code § 104.530(a)(13))

For this information, please refer to Section IV.N at pages 73-74 of the MWGen Amended Petition, which Flint Hills incorporates herein by reference.

However, based on Flint Hills' experience gained during the course of implementing these items in the future, Flint Hills may make adjustments as necessary in order to continue prioritizing safety.

N. Proposed Term of TLWQS and Justification That It Is Only As Long As Necessary to Achieve the Highest Attainable Condition, Which Includes a Description of the Relationship Between the Proposed Pollution Control Activities and the Proposed Term (35 Ill. Admin. Code § 104.530(a)(14))

For this information, please refer to Sections IV.K.1 and IV.K.2 at pages 70-72 of the MWGen Amended Petition, which Flint Hills incorporates herein by reference.

O. Proposed Reevaluation Schedule to Reevaluate the Highest Attainable Condition During the Term of the TLWQS, If the Proposed Term of the TLWQS Is Longer Than Five Years under Section 104.580 (35 Ill. Admin. Code § 104.530(a)(15))

For this information, please refer to Section IV.K.3 at page 72 of the MWGen Amended Petition, which Flint Hills incorporates herein by reference.

P. Any Other Documentation Necessary to Support the Petitioner's Demonstration Specified in Section 104.560 (35 Ill. Admin. Code § 104.530(a)(16))

No additional documentation is necessary.

Q. Demonstration to Assure That the Proposed Highest Attainable Condition Does Not Conflict with the Attainment of Downstream Water Quality Standard for the Pollutant or Parameter for Which the TLWQS Is Sought (35 Ill. Admin. Code § 104.530(a)(17))

For this information, please refer to Section IV.H at page 65 of the MWGen Amended Petition, which Flint Hills incorporates herein by reference.

II. REQUIRED DEMONSTRATION (35 ILL. ADMIN. CODE § 104.560)

Pursuant to 35 Ill. Admin. Code § 104.560(a), for a TLWQS to a use specified in Section 101(a)(2) of the Clean Water Act or a subcategory of such a use, a petitioner must provide justification that attainment of the designated use and criterion is not feasible throughout the term of the TLWQS because of one of the factors listed in Subsections 104.560(a)(1) – (7). This information is addressed above in Section I.G of this Amended Petition.

III. CONCLUSION

Based on the information provided in this Amended Petition and as supplemented by the MWGen Amended Petition where appropriate, the Board has all of the information necessary to evaluate and grant Flint Hills coverage under the temperature multi-discharger TLWQS for discharges to the waterbody from its Facility.

WHEREFORE, Petitioner, Flint Hills Resources Joliet, LLC, respectfully requests that the Board grant Flint Hills coverage for discharges to the waterbody from its Facility under the temperature multi-discharger TLWQS.

Respectfully submitted,

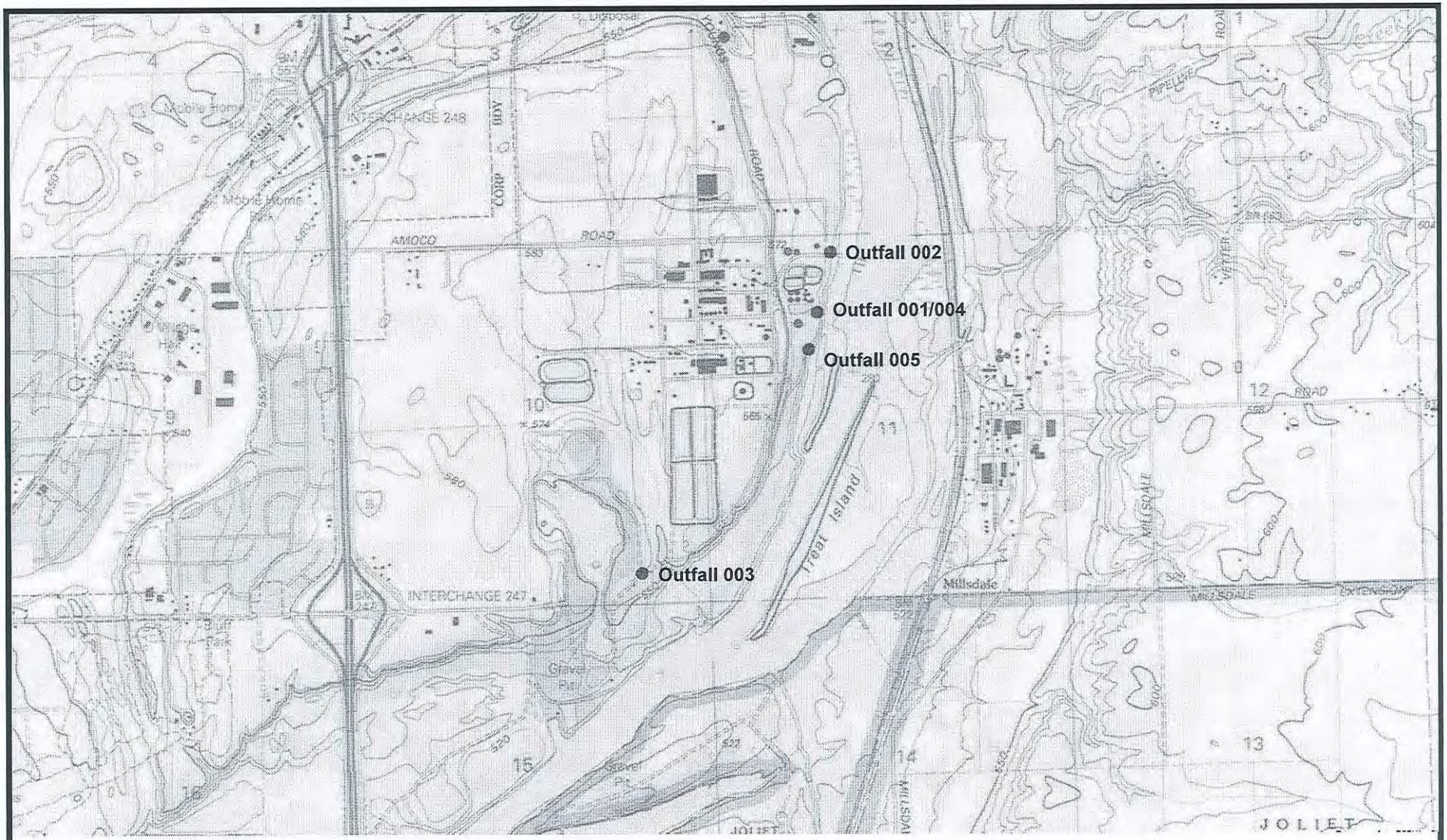
FLINT HILLS RESOURCES JOLIET, LLC,
Petitioner,

DATE: July 26, 2018

By: /s/ Joshua J. Houser
One of Its Attorneys

Katherine D. Hodge
Joshua J. Houser
HEPLERBROOM, LLC
4340 Acer Grove Drive
Springfield, Illinois 62711
Katherine.Hodge@heplerbroom.com
Joshua.Houser@heplerbroom.com
(217) 528-3674

EXHIBIT 1



SOURCE: *GPS Visualizer with ArcGIS Topographic Map overlay*

RAMBOLL ENVIRON

DRAFTED BY: L. Legler | DATE: 09/13/2016

TOPOGRAPHIC MAP WITH OUTFALL LOCATIONS
Flint Hills Resources Joliet, LLC
NPDES Permit No. IL0001643

FIGURE
1

PROJECT: 3840062A

Exhibit 2

		Date	Temp Deg. F (daily avg.)	Flow GPM (daily avg.)	
start	1/1/2012		eti111	efi001	limit
end	8/1/2017	1/1/2012	72	876	60
		1/2/2012	71	959	60
		1/3/2012	70	919	60
		1/4/2012	72	1057	60
		1/5/2012	72	959	60
		1/6/2012	73	1014	60
		1/7/2012	72	1118	60
		1/8/2012	73	1057	60
		1/9/2012	72	1314	60
		1/10/2012	73	1515	60
		1/11/2012	66	1103	60
		1/12/2012	73	961	60
		1/13/2012	67	689	60
		1/14/2012	68	872	60
		1/15/2012	70	898	60
		1/16/2012	71	865	60
		1/17/2012	72	878	60
		1/18/2012	72	1059	60
		1/19/2012	69	793	60
		1/20/2012	71	854	60
		1/21/2012	70	723	60
		1/22/2012	67	683	60
		1/23/2012	69	768	60
		1/24/2012	71	868	60
		1/25/2012	71	894	60
		1/26/2012	71	913	60
		1/27/2012	73	1089	60
		1/28/2012	72	968	60
		1/29/2012	68	462	60
		1/30/2012	69	468	60
		1/31/2012	72	825	60
		2/1/2012	72	834	60
		2/2/2012	71	867	60
		2/3/2012	73	622	60
		2/4/2012	72	603	60
		2/5/2012	71	801	60
		2/6/2012	71	928	60
		2/7/2012	71	954	60
		2/8/2012	71	947	60
		2/9/2012	73	649	60
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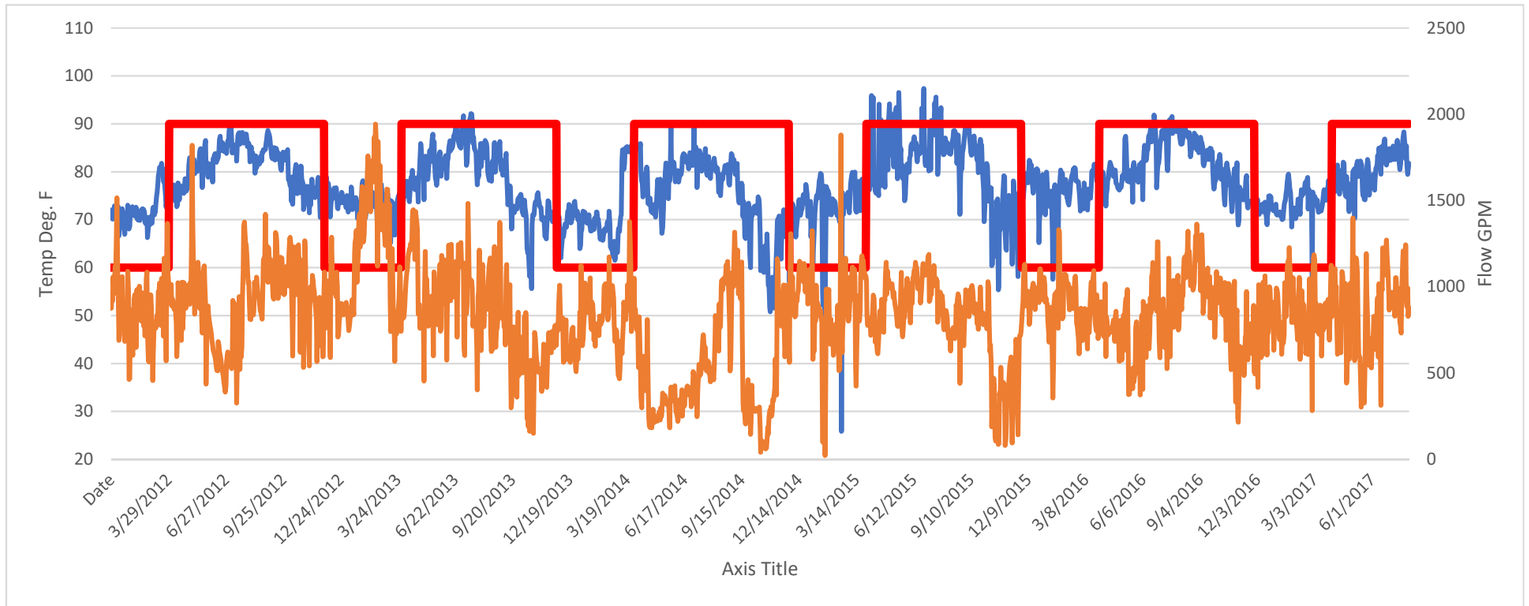
		2/12/2012	70	932	60
		2/13/2012	71	883	60



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2/15/2012	70	894	60
2/16/2012	72	882	60
2/17/2012	72	802	60
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2/19/2012	72	965	60
2/20/2012	72	812	60
2/21/2012	72	774	60
2/22/2012	72	784	60
2/23/2012	69	716	60
2/24/2012	69	782	60
2/25/2012	70	1047	60
2/26/2012	70	1085	60
2/27/2012	66	736	60
2/28/2012	68	600	60
2/29/2012	69	566	60
3/1/2012	70	846	60
3/2/2012	69	692	60
3/3/2012	71	953	60
3/4/2012	69	870	60
3/5/2012	69	696	60
3/6/2012	72	457	60
3/7/2012	73	609	60
3/8/2012	73	765	60
3/9/2012	71	761	60
3/10/2012	72	772	60
3/11/2012	73	760	60
3/12/2012	75	805	60
3/13/2012	76	832	60
3/14/2012	77	846	60
3/15/2012	79	973	60
3/16/2012	80	977	60
3/17/2012	81	1022	60
3/18/2012	81	903	60
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3/26/2012	75	894	60
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3/31/2012	77	1021	60

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5/10/2012	83	1060	90
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5/13/2012	82	1036	90
5/14/2012	81	1020	90
5/15/2012	80	1034	90
5/16/2012	81	1143	90
5/17/2012	81	1086	90

5/18/2012	83	882	90
5/19/2012	84	874	90
5/20/2012	85	970	90
5/21/2012	83	1023	90
5/22/2012	79	793	90
5/23/2012	77	732	90
5/24/2012	80	1075	90
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6/20/2012	87	603	90
6/21/2012	86	587	90
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6/23/2012	85	530	90
6/24/2012	86	500	90
6/25/2012	86	483	90
6/26/2012	84	444	90
6/27/2012	85	423	90
6/28/2012	85	389	90
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7/26/2012	87	1085	90
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8/26/2012	84	1012	90
8/27/2012	85	1157	90
8/28/2012	84	1168	90
8/29/2012	85	1129	90
8/30/2012	85	1420	90
8/31/2012	86	1190	90
9/1/2012	87	1237	90
9/2/2012	88	1059	90
9/3/2012	89	1027	90
9/4/2012	88	1228	90
9/5/2012	88	1165	90
9/6/2012	87	1085	90
9/7/2012	86	1159	90
9/8/2012	84	1149	90
9/9/2012	83	1132	90
9/10/2012	83	1009	90
9/11/2012	84	944	90
9/12/2012	85	929	90
9/13/2012	85	1066	90
9/14/2012	82	1048	90
9/15/2012	84	1314	90
9/16/2012	85	1295	90
9/17/2012	84	1263	90
9/18/2012	83	1067	90
9/19/2012	84	933	90
9/20/2012	83	957	90
9/21/2012	83	1056	90
9/22/2012	82	1102	90
9/23/2012	81	1172	90
9/24/2012	80	1160	90
9/25/2012	82	1167	90
9/26/2012	84	1094	90
9/27/2012	84	963	90
9/28/2012	83	1073	90
9/29/2012	84	955	90
9/30/2012	84	1009	90
10/1/2012	82	1114	90
10/2/2012	83	1115	90
10/3/2012	84	1122	90
10/4/2012	85	1105	90
10/5/2012	78	1006	90

10/6/2012	78	1187	90
10/7/2012	78	1279	90
10/8/2012	77	1287	90
10/9/2012	77	1243	90
10/10/2012	74	1006	90
10/11/2012	79	802	90
10/12/2012	73	599	90
10/13/2012	78	983	90
10/14/2012	78	1231	90
10/15/2012	78	1231	90
10/16/2012	81	1126	90
10/17/2012	81	1166	90
10/18/2012	81	955	90
10/19/2012	75	960	90
10/20/2012	79	1236	90
10/21/2012	79	1243	90
10/22/2012	81	1141	90
10/23/2012	79	912	90
10/24/2012	76	621	90
10/25/2012	81	1155	90
10/26/2012	78	1040	90
10/27/2012	78	1131	90
10/28/2012	77	1056	90
10/29/2012	72	533	90
10/30/2012	73	697	90
10/31/2012	77	1266	90
11/1/2012	76	1121	90
11/2/2012	77	845	90
11/3/2012	77	794	90
11/4/2012	76	856	90
11/5/2012	76	914	90
11/6/2012	76	887	90
11/7/2012	71	541	90
11/8/2012	77	935	90
11/9/2012	73	999	90
11/10/2012	76	921	90
11/11/2012	78	938	90
11/12/2012	77	1066	90
11/13/2012	76	1033	90
11/14/2012	76	995	90
11/15/2012	76	966	90
11/16/2012	75	914	90
11/17/2012	76	873	90
11/18/2012	77	798	90
11/19/2012	75	566	90
11/20/2012	78	879	90
11/21/2012	79	929	90

11/22/2012	79	884	90
11/23/2012	75	938	90
11/24/2012	70	772	90
11/25/2012	71	657	90
11/26/2012	72	687	90
11/27/2012	73	782	90
11/28/2012	72	594	90
11/29/2012	71	596	90
11/30/2012	75	983	90
12/1/2012	76	1085	60
12/2/2012	78	886	60
12/3/2012	78	762	60
12/4/2012	79	853	60
12/5/2012	77	979	60
12/6/2012	76	1034	60
12/7/2012	78	1001	60
12/8/2012	76	888	60
12/9/2012	74	785	60
12/10/2012	71	590	60
12/11/2012	73	1096	60
12/12/2012	74	1287	60
12/13/2012	74	1053	60
12/14/2012	75	993	60
12/15/2012	76	969	60
12/16/2012	77	995	60
12/17/2012	76	992	60
12/18/2012	76	968	60
12/19/2012	77	943	60
12/20/2012	76	1086	60
12/21/2012	73	1001	60
12/22/2012	72	709	60
12/23/2012	75	731	60
12/24/2012	74	795	60
12/25/2012	74	831	60
12/26/2012	74	882	60
12/27/2012	75	903	60
12/28/2012	76	894	60
12/29/2012	75	899	60
12/30/2012	74	855	60
12/31/2012	75	837	60
1/1/2013	75	860	60
1/2/2013	74	882	60
1/3/2013	73	882	60
1/4/2013	72	910	60
1/5/2013	75	882	60
1/6/2013	75	861	60
1/7/2013	72	793	60

1/8/2013	72	746	60
1/9/2013	75	777	60
1/10/2013	74	809	60
1/11/2013	73	872	60
1/12/2013	77	832	60
1/13/2013	75	924	60
1/14/2013	72	906	60
1/15/2013	74	866	60
1/16/2013	73	839	60
1/17/2013	73	1195	60
1/18/2013	74	1261	60
1/19/2013	75	1284	60
1/20/2013	73	1326	60
1/21/2013	72	1026	60
1/22/2013	70	1109	60
1/23/2013	71	1205	60
1/24/2013	70	1401	60
1/25/2013	72	1423	60
1/26/2013	73	1230	60
1/27/2013	74	1381	60
1/28/2013	75	1514	60
1/29/2013	77	1581	60
1/30/2013	78	1478	60
1/31/2013	71	1259	60
2/1/2013	70	1301	60
2/2/2013	71	1390	60
2/3/2013	70	1415	60
2/4/2013	71	1497	60
2/5/2013	73	1521	60
2/6/2013	74	1636	60
2/7/2013	73	1759	60
2/8/2013	73	1631	60
2/9/2013	75	1608	60
2/10/2013	75	1504	60
2/11/2013	73	1436	60
2/12/2013	74	1672	60
2/13/2013	75	1670	60
2/14/2013	76	1709	60
2/15/2013	75	1735	60
2/16/2013	73	1610	60
2/17/2013	75	1867	60
2/18/2013	74	1670	60
2/19/2013	74	1943	60
2/20/2013	73	1878	60
2/21/2013	72	1576	60
2/22/2013	67	1120	60
2/23/2013	73	1842	60

2/24/2013	71	1540	60
2/25/2013	73	1638	60
2/26/2013	76	1702	60
2/27/2013	77	1491	60
2/28/2013	77	1331	60
3/1/2013	76	1478	60
3/2/2013	75	1469	60
3/3/2013	75	1431	60
3/4/2013	74	1385	60
3/5/2013	73	1322	60
3/6/2013	73	1240	60
3/7/2013	74	1339	60
3/8/2013	75	1456	60
3/9/2013	74	1566	60
3/10/2013	75	1566	60
3/11/2013	71	1168	60
3/12/2013	74	1444	60
3/13/2013	73	1478	60
3/14/2013	65	929	60
3/15/2013	66	740	60
3/16/2013	74	1164	60
3/17/2013	73	1221	60
3/18/2013	73	1064	60
3/19/2013	72	803	60
3/20/2013	71	827	60
3/21/2013	67	569	60
3/22/2013	71	759	60
3/23/2013	73	790	60
3/24/2013	73	726	60
3/25/2013	73	763	60
3/26/2013	74	846	60
3/27/2013	75	884	60
3/28/2013	75	932	60
3/29/2013	76	1115	60
3/30/2013	75	1062	60
3/31/2013	73	742	60
4/1/2013	72	901	90
4/2/2013	71	871	90
4/3/2013	73	901	90
4/4/2013	74	819	90
4/5/2013	75	829	90
4/6/2013	75	896	90
4/7/2013	75	961	90
4/8/2013	76	1035	90
4/9/2013	78	1081	90
4/10/2013	78	1105	90
4/11/2013	77	1176	90

4/12/2013	75	1194	90
4/13/2013	74	1218	90
4/14/2013	75	1210	90
4/15/2013	78	1248	90
4/16/2013	79	1229	90
4/17/2013	78	1274	90
4/18/2013	80	1409	90
4/19/2013	77	1447	90
4/20/2013	77	1356	90
4/21/2013	78	1290	90
4/22/2013	76	1158	90
4/23/2013	79	1437	90
4/24/2013	77	1405	90
4/25/2013	77	1367	90
4/26/2013	78	1325	90
4/27/2013	74	842	90
4/28/2013	79	887	90
4/29/2013	80	897	90
4/30/2013	83	760	90
5/1/2013	86	808	90
5/2/2013	85	832	90
5/3/2013	82	818	90
5/4/2013	81	757	90
5/5/2013	82	857	90
5/6/2013	74	454	90
5/7/2013	81	956	90
5/8/2013	83	1205	90
5/9/2013	81	994	90
5/10/2013	81	1045	90
5/11/2013	79	984	90
5/12/2013	78	875	90
5/13/2013	80	771	90
5/14/2013	82	808	90
5/15/2013	84	825	90
5/16/2013	85	902	90
5/17/2013	84	900	90
5/18/2013	85	946	90
5/19/2013	87	925	90
5/20/2013	88	808	90
5/21/2013	82	600	90
5/22/2013	86	1086	90
5/23/2013	82	1042	90
5/24/2013	79	891	90
5/25/2013	78	862	90
5/26/2013	77	823	90
5/27/2013	79	780	90
5/28/2013	81	792	90

5/29/2013	83	842	90
5/30/2013	83	881	90
5/31/2013	84	1130	90
6/1/2013	80	742	90
6/2/2013	79	762	90
6/3/2013	81	1182	90
6/4/2013	82	1020	90
6/5/2013	82	908	90
6/6/2013	81	902	90
6/7/2013	83	1156	90
6/8/2013	82	1053	90
6/9/2013	83	1065	90
6/10/2013	82	918	90
6/11/2013	79	575	90
6/12/2013	82	960	90
6/13/2013	83	979	90
6/14/2013	85	1242	90
6/15/2013	86	1083	90
6/16/2013	86	1140	90
6/17/2013	84	920	90
6/18/2013	86	1246	90
6/19/2013	85	1015	90
6/20/2013	85	940	90
6/21/2013	86	1104	90
6/22/2013	88	1069	90
6/23/2013	88	1027	90
6/24/2013	88	1144	90
6/25/2013	90	1147	90
6/26/2013	89	1127	90
6/27/2013	90	708	90
6/28/2013	87	981	90
6/29/2013	86	1244	90
6/30/2013	86	1148	90
7/1/2013	85	1136	90
7/2/2013	85	1184	90
7/3/2013	85	1256	90
7/4/2013	87	1161	90
7/5/2013	89	1112	90
7/6/2013	90	1141	90
7/7/2013	92	1139	90
7/8/2013	86	658	90
7/9/2013	88	602	90
7/10/2013	88	1050	90
7/11/2013	85	955	90
7/12/2013	81	844	90
7/13/2013	82	897	90
7/14/2013	87	1483	90

7/15/2013	89	1315	90
7/16/2013	91	1034	90
7/17/2013	91	1025	90
7/18/2013	91	1019	90
7/19/2013	92	1039	90
7/20/2013	92	1033	90
7/21/2013	91	990	90
7/22/2013	86	771	90
7/23/2013	87	818	90
7/24/2013	85	779	90
7/25/2013	85	806	90
7/26/2013	84	823	90
7/27/2013	84	804	90
7/28/2013	79	647	90
7/29/2013	77	402	90
7/30/2013	80	943	90
7/31/2013	79	968	90
8/1/2013	82	1213	90
8/2/2013	83	1054	90
8/3/2013	86	927	90
8/4/2013	81	631	90
8/5/2013	83	1105	90
8/6/2013	84	1129	90
8/7/2013	86	1029	90
8/8/2013	83	769	90
8/9/2013	85	841	90
8/10/2013	87	964	90
8/11/2013	86	987	90
8/12/2013	86	869	90
8/13/2013	85	922	90
8/14/2013	80	928	90
8/15/2013	79	1023	90
8/16/2013	79	1102	90
8/17/2013	78	1135	90
8/18/2013	81	1167	90
8/19/2013	79	739	90
8/20/2013	78	625	90
8/21/2013	82	756	90
8/22/2013	82	639	90
8/23/2013	81	748	90
8/24/2013	84	1086	90
8/25/2013	86	1233	90
8/26/2013	80	688	90
8/27/2013	82	650	90
8/28/2013	84	749	90
8/29/2013	84	767	90

The highlighted flow rate data was revised to reflect a change in recordkeeping which was representative of actual flow rates during maintenance of the anaerobic reactor (out-of-service)

8/30/2013	85	805	90
8/31/2013	84	868	90
9/1/2013	84	978	90
9/2/2013	86	1374	90
9/3/2013	83	1242	90
9/4/2013	80	820	90
9/5/2013	81	846	90
9/6/2013	80	815	90
9/7/2013	79	833	90
9/8/2013	80	844	90
9/9/2013	81	766	90
9/10/2013	83	786	90
9/11/2013	82	663	90
9/12/2013	84	1051	90
9/13/2013	80	1129	90
9/14/2013	76	751	90
9/15/2013	73	812	90
9/16/2013	74	745	90
9/17/2013	76	818	90
9/18/2013	77	1011	90
9/19/2013	77	673	90
9/20/2013	71	298	90
9/21/2013	68	326	90
9/22/2013	72	506	90
9/23/2013	72	536	90
9/24/2013	73	767	90
9/25/2013	72	424	90
9/26/2013	72	392	90
9/27/2013	72	460	90
9/28/2013	72	380	90
9/29/2013	72	361	90
9/30/2013	74	719	90
10/1/2013	74	853	90
10/2/2013	74	486	90
10/3/2013	75	570	90
10/4/2013	75	709	90
10/5/2013	75	501	90
10/6/2013	75	500	90
10/7/2013	72	506	90
10/8/2013	71	504	90
10/9/2013	71	502	90
10/10/2013	72	616	90
10/11/2013	74	828	90
10/12/2013	72	653	90
10/13/2013	71	851	90
10/14/2013	70	770	90
10/15/2013	64	235	90

10/16/2013	63	230	90
10/17/2013	64	191	90
10/18/2013	60	230	90
10/19/2013	58	163	90
10/20/2013	61	438	90
10/21/2013	62	574	90
10/22/2013	56	506	90
10/23/2013	69	175	90
10/24/2013	71	175	90
10/25/2013	71	151	90
10/26/2013	71	476	90
10/27/2013	73	735	90
10/28/2013	74	700	90
10/29/2013	74	639	90
10/30/2013	74	574	90
10/31/2013	75	557	90
11/1/2013	76	513	90
11/2/2013	74	505	90
11/3/2013	74	519	90
11/4/2013	73	522	90
11/5/2013	73	526	90
11/6/2013	73	518	90
11/7/2013	70	394	90
11/8/2013	70	510	90
11/9/2013	71	531	90
11/10/2013	70	668	90
11/11/2013	69	631	90
11/12/2013	67	660	90
11/13/2013	67	435	90
11/14/2013	66	488	90
11/15/2013	68	418	90
11/16/2013	71	573	90
11/17/2013	74	652	90
11/18/2013	74	734	90
11/19/2013	72	690	90
11/20/2013	72	668	90
11/21/2013	71	622	90
11/22/2013	72	618	90
11/23/2013	70	739	90
11/24/2013	70	662	90
11/25/2013	71	723	90
11/26/2013	71	648	90
11/27/2013	71	755	90
11/28/2013	71	776	90
11/29/2013	72	665	90
11/30/2013	72	661	90

The highlighted flow rate data was revised to reflect a change in recordkeeping which was representative of actual flow rates during maintenance of the anaerobic reactor (out-of-service)

12/1/2013	72	778	60
12/2/2013	71	745	60
12/3/2013	69	821	60
12/4/2013	71	924	60
12/5/2013	68	1008	60
12/6/2013	62	892	60
12/7/2013	62	758	60
12/8/2013	64	823	60
12/9/2013	66	813	60
12/10/2013	68	818	60
12/11/2013	66	563	60
12/12/2013	67	575	60
12/13/2013	68	681	60
12/14/2013	69	576	60
12/15/2013	69	808	60
12/16/2013	68	596	60
12/17/2013	70	605	60
12/18/2013	72	611	60
12/19/2013	72	648	60
12/20/2013	73	651	60
12/21/2013	73	582	60
12/22/2013	72	563	60
12/23/2013	69	640	60
12/24/2013	70	721	60
12/25/2013	70	759	60
12/26/2013	71	765	60
12/27/2013	72	603	60
12/28/2013	74	582	60
12/29/2013	74	691	60
12/30/2013	72	533	60
12/31/2013	71	508	60
1/1/2014	71	585	60
1/2/2014	72	594	60
1/3/2014	70	580	60
1/4/2014	71	661	60
1/5/2014	70	672	60
1/6/2014	64	854	60
1/7/2014	65	772	60
1/8/2014	67	1125	60
1/9/2014	68	761	60
1/10/2014	70	659	60
1/11/2014	72	698	60
1/12/2014	72	763	60
1/13/2014	71	842	60
1/14/2014	72	1022	60
1/15/2014	70	943	60
1/16/2014	70	888	60

1/17/2014	69	919	60
1/18/2014	69	852	60
1/19/2014	70	876	60
1/20/2014	71	913	60
1/21/2014	69	961	60
1/22/2014	69	1051	60
1/23/2014	68	802	60
1/24/2014	68	752	60
1/25/2014	69	910	60
1/26/2014	70	899	60
1/27/2014	68	841	60
1/28/2014	68	692	60
1/29/2014	70	737	60
1/30/2014	70	656	60
1/31/2014	70	755	60
2/1/2014	72	749	60
2/2/2014	72	785	60
2/3/2014	70	770	60
2/4/2014	70	734	60
2/5/2014	69	717	60
2/6/2014	67	830	60
2/7/2014	66	828	60
2/8/2014	67	782	60
2/9/2014	67	803	60
2/10/2014	67	802	60
2/11/2014	66	839	60
2/12/2014	67	848	60
2/13/2014	68	996	60
2/14/2014	67	1013	60
2/15/2014	68	1018	60
2/16/2014	68	908	60
2/17/2014	68	994	60
2/18/2014	70	913	60
2/19/2014	69	809	60
2/20/2014	68	835	60
2/21/2014	72	1173	60
2/22/2014	69	904	60
2/23/2014	64	896	60
2/24/2014	64	929	60
2/25/2014	64	922	60
2/26/2014	63	1007	60
2/27/2014	62	978	60
2/28/2014	64	932	60
3/1/2014	65	781	60
3/2/2014	62	683	60
3/3/2014	63	689	60
3/4/2014	63	751	60

3/5/2014	63	743	60
3/6/2014	63	592	60
3/7/2014	67	487	60
3/8/2014	68	487	60
3/9/2014	68	467	60
3/10/2014	69	527	60
3/11/2014	71	641	60
3/12/2014	71	688	60
3/13/2014	82	613	60
3/14/2014	85	688	60
3/15/2014	85	778	60
3/16/2014	81	910	60
3/17/2014	82	878	60
3/18/2014	84	869	60
3/19/2014	85	809	60
3/20/2014	85	873	60
3/21/2014	85	862	60
3/22/2014	85	1012	60
3/23/2014	84	938	60
3/24/2014	84	902	60
3/25/2014	85	1379	60
3/26/2014	85	1284	60
3/27/2014	85	1122	60
3/28/2014	86	741	60
3/29/2014	85	887	60
3/30/2014	85	940	60
3/31/2014	86	888	60
4/1/2014	85	1049	90
4/2/2014	85	849	90
4/3/2014	85	870	90
4/4/2014	85	811	90
4/5/2014	85	751	90
4/6/2014	85	809	90
4/7/2014	85	731	90
4/8/2014	86	532	90
4/9/2014	85	826	90
4/10/2014	85	718	90
4/11/2014	86	528	90
4/12/2014	80	362	90
4/13/2014	78	299	90
4/14/2014	78	453	90
4/15/2014	75	569	90
4/16/2014	76	598	90
4/17/2014	78	520	90
4/18/2014	79	532	90
4/19/2014	78	522	90

The highlighted data was obtained from upstream temperature readings that would reflect temperature at the outfall. We believe the temperature gauge was not operational during this timeframe at the outfall.

4/20/2014	80	399	90
4/21/2014	81	488	90
4/22/2014	80	809	90
4/23/2014	73	472	90
4/24/2014	73	243	90
4/25/2014	74	193	90
4/26/2014	75	184	90
4/27/2014	73	193	90
4/28/2014	72	197	90
4/29/2014	72	183	90
4/30/2014	72	247	90
5/1/2014	71	289	90
5/2/2014	72	249	90
5/3/2014	73	213	90
5/4/2014	72	216	90
5/5/2014	71	236	90
5/6/2014	73	238	90
5/7/2014	75	233	90
5/8/2014	78	223	90
5/9/2014	78	255	90
5/10/2014	75	244	90
5/11/2014	77	278	90
5/12/2014	78	228	90
5/13/2014	76	297	90
5/14/2014	70	247	90
5/15/2014	67	272	90
5/16/2014	68	384	90
5/17/2014	72	358	90
5/18/2014	76	357	90
5/19/2014	77	371	90
5/20/2014	80	357	90
5/21/2014	82	322	90
5/22/2014	78	337	90
5/23/2014	76	317	90
5/24/2014	75	317	90
5/25/2014	74	335	90
5/26/2014	80	270	90
5/27/2014	78	182	90
5/28/2014	81	351	90
5/29/2014	89	419	90
5/30/2014	80	377	90
5/31/2014	80	338	90
6/1/2014	81	362	90
6/2/2014	82	353	90
6/3/2014	82	387	90
6/4/2014	79	426	90
6/5/2014	78	343	90

6/6/2014	78	272	90
6/7/2014	79	268	90
6/8/2014	79	246	90
6/9/2014	80	219	90
6/10/2014	78	252	90
6/11/2014	79	344	90
6/12/2014	80	265	90
6/13/2014	79	344	90
6/14/2014	79	333	90
6/15/2014	81	403	90
6/16/2014	83	251	90
6/17/2014	84	342	90
6/18/2014	84	393	90
6/19/2014	82	308	90
6/20/2014	84	349	90
6/21/2014	82	388	90
6/22/2014	82	382	90
6/23/2014	82	419	90
6/24/2014	83	424	90
6/25/2014	82	381	90
6/26/2014	81	403	90
6/27/2014	82	371	90
6/28/2014	84	415	90
6/29/2014	84	406	90
6/30/2014	82	304	90
7/1/2014	82	316	90
7/2/2014	81	366	90
7/3/2014	81	507	90
7/4/2014	90	477	90
7/5/2014	83	458	90
7/6/2014	84	466	90
7/7/2014	85	404	90
7/8/2014	84	449	90
7/9/2014	77	247	90
7/10/2014	81	405	90
7/11/2014	82	462	90
7/12/2014	83	551	90
7/13/2014	84	482	90
7/14/2014	84	504	90
7/15/2014	80	494	90
7/16/2014	80	566	90
7/17/2014	81	619	90
7/18/2014	81	700	90
7/19/2014	81	722	90
7/20/2014	81	662	90
7/21/2014	83	649	90
7/22/2014	85	648	90

7/23/2014	83	521	90
7/24/2014	80	512	90
7/25/2014	79	522	90
7/26/2014	81	570	90
7/27/2014	83	563	90
7/28/2014	80	496	90
7/29/2014	79	486	90
7/30/2014	79	450	90
7/31/2014	81	533	90
8/1/2014	81	505	90
8/2/2014	81	500	90
8/3/2014	81	486	90
8/4/2014	82	462	90
8/5/2014	83	530	90
8/6/2014	81	678	90
8/7/2014	81	833	90
8/8/2014	80	766	90
8/9/2014	81	823	90
8/10/2014	81	775	90
8/11/2014	79	707	90
8/12/2014	76	628	90
8/13/2014	79	900	90
8/14/2014	78	763	90
8/15/2014	75	770	90
8/16/2014	78	1004	90
8/17/2014	79	1039	90
8/18/2014	78	981	90
8/19/2014	79	1043	90
8/20/2014	80	1050	90
8/21/2014	81	1036	90
8/22/2014	81	1019	90
8/23/2014	80	1089	90
8/24/2014	81	1127	90
8/25/2014	81	1078	90
8/26/2014	82	1147	90
8/27/2014	80	1023	90
8/28/2014	78	946	90
8/29/2014	77	770	90
8/30/2014	81	512	90
8/31/2014	82	581	90
9/1/2014	84	808	90
9/2/2014	83	1082	90
9/3/2014	82	1057	90
9/4/2014	81	1002	90
9/5/2014	83	1151	90
9/6/2014	80	1316	90
9/7/2014	79	1218	90

9/8/2014	79	1109	90
9/9/2014	81	1067	90
9/10/2014	82	1130	90
9/11/2014	77	1212	90
9/12/2014	74	960	90
9/13/2014	73	1057	90
9/14/2014	77	1131	90
9/15/2014	76	933	90
9/16/2014	77	990	90
9/17/2014	78	1143	90
9/18/2014	77	745	90
9/19/2014	71	326	90
9/20/2014	74	283	90
9/21/2014	72	318	90
9/22/2014	67	256	90
9/23/2014	66	204	90
9/24/2014	70	283	90
9/25/2014	71	271	90
9/26/2014	70	382	90
9/27/2014	73	461	90
9/28/2014	73	393	90
9/29/2014	72	410	90
9/30/2014	63	326	90
10/1/2014	60	145	90
10/2/2014	69	215	90
10/3/2014	72	429	90
10/4/2014	71	314	90
10/5/2014	72	293	90
10/6/2014	73	294	90
10/7/2014	73	291	90
10/8/2014	73	278	90
10/9/2014	73	278	90
10/10/2014	71	283	90
10/11/2014	71	296	90
10/12/2014	72	294	90
10/13/2014	75	287	90
10/14/2014	74	295	90
10/15/2014	73	303	90
10/16/2014	67	178	90
10/17/2014	59	41	90
10/18/2014	61	87	90
10/19/2014	61	103	90
10/20/2014	64	103	90
10/21/2014	62	102	90
10/22/2014	59	69	90
10/23/2014	60	69	90
10/24/2014	64	64	90

10/25/2014	65	60	90
10/26/2014	61	65	90
10/27/2014	67	105	90
10/28/2014	61	184	90
10/29/2014	56	147	90
10/30/2014	56	242	90
10/31/2014	52	282	90
11/1/2014	51	276	90
11/2/2014	52	306	90
11/3/2014	56	251	90
11/4/2014	58	276	90
11/5/2014	56	346	90
11/6/2014	53	341	90
11/7/2014	52	363	90
11/8/2014	55	419	90
11/9/2014	55	582	90
11/10/2014	61	475	90
11/11/2014	64	374	90
11/12/2014	70	1163	90
11/13/2014	70	1131	90
11/14/2014	70	965	90
11/15/2014	71	873	90
11/16/2014	70	925	90
11/17/2014	67	839	90
11/18/2014	62	903	90
11/19/2014	66	771	90
11/20/2014	69	842	90
11/21/2014	70	929	90
11/22/2014	72	1011	90
11/23/2014	70	701	90
11/24/2014	69	594	90
11/25/2014	66	705	90
11/26/2014	69	1008	90
11/27/2014	69	887	90
11/28/2014	69	639	90
11/29/2014	72	661	90
11/30/2014	73	754	90
12/1/2014	57	563	60
12/2/2014	69	1050	60
12/3/2014	69	1307	60
12/4/2014	66	1000	60
12/5/2014	70	987	60
12/6/2014	73	1058	60
12/7/2014	73	857	60
12/8/2014	72	839	60
12/9/2014	72	902	60
12/10/2014	68	826	60

12/11/2014	66	834	60
12/12/2014	68	950	60
12/13/2014	70	916	60
12/14/2014	70	957	60
12/15/2014	72	978	60
12/16/2014	74	1105	60
12/17/2014	72	1148	60
12/18/2014	71	1142	60
12/19/2014	71	1080	60
12/20/2014	72	1056	60
12/21/2014	72	1097	60
12/22/2014	75	1097	60
12/23/2014	75	1029	60
12/24/2014	74	1135	60
12/25/2014	73	1128	60
12/26/2014	75	970	60
12/27/2014	77	1059	60
12/28/2014	76	1096	60
12/29/2014	75	1070	60
12/30/2014	71	901	60
12/31/2014	71	1033	60
1/1/2015	73	1056	60
1/2/2015	72	1094	60
1/3/2015	74	1105	60
1/4/2015	66	912	60
1/5/2015	70	919	60
1/6/2015	72	1326	60
1/7/2015	61	580	60
1/8/2015	64	721	60
1/9/2015	68	628	60
1/10/2015	71	895	60
1/11/2015	73	803	60
1/12/2015	74	1009	60
1/13/2015	75	922	60
1/14/2015	75	909	60
1/15/2015	75	881	60
1/16/2015	77	885	60
1/17/2015	78	834	60
1/18/2015	79	834	60
1/19/2015	80	863	60
1/20/2015	79	810	60
1/21/2015	78	819	60
1/22/2015	55	104	60
1/23/2015	52	97	60
1/24/2015	72	627	60
1/25/2015	77	810	60
1/26/2015	44	22	60

1/27/2015	62	302	60
1/28/2015	77	988	60
1/29/2015	76	969	60
1/30/2015	76	969	60
1/31/2015	76	943	60
2/1/2015	75	984	60
2/2/2015	71	693	60
2/3/2015	71	668	60
2/4/2015	72	812	60
2/5/2015	71	747	60
2/6/2015	73	772	60
2/7/2015	74	730	60
2/8/2015	74	604	60
2/9/2015	73	629	60
2/10/2015	74	748	60
2/11/2015	74	759	60
2/12/2015	72	785	60
2/13/2015	72	742	60
2/14/2015	71	750	60
2/15/2015	71	892	60
2/16/2015	71	647	60
2/17/2015	70	514	60
2/18/2015	70	519	60
2/19/2015	69	898	60
2/20/2015	71	1880	60
2/21/2015	26	762	60
2/22/2015	76	619	60
2/23/2015	72	761	60
2/24/2015	71	826	60
2/25/2015	74	897	60
2/26/2015	74	1040	60
2/27/2015	73	1165	60
2/28/2015	74	912	60
3/1/2015	75	1033	60
3/2/2015	75	1048	60
3/3/2015	76	1054	60
3/4/2015	73	802	60
3/5/2015	71	853	60
3/6/2015	74	913	60
3/7/2015	77	929	60
3/8/2015	78	1001	60
3/9/2015	79	1085	60
3/10/2015	80	1114	60
3/11/2015	79	1001	60
3/12/2015	78	1044	60
3/13/2015	79	1103	60
3/14/2015	80	1059	60

3/15/2015	72	523	60
3/16/2015	72	424	60
3/17/2015	72	667	60
3/18/2015	72	831	60
3/19/2015	76	922	60
3/20/2015	78	948	60
3/21/2015	72	801	60
3/22/2015	73	858	60
3/23/2015	72	1049	60
3/24/2015	73	1158	60
3/25/2015	78	1180	60
3/26/2015	78	1138	60
3/27/2015	76	1153	60
3/28/2015	76	1088	60
3/29/2015	74	1085	60
3/30/2015	76	1050	60
3/31/2015	77	1065	60
4/1/2015	78	1034	90
4/2/2015	78	833	90
4/3/2015	77	776	90
4/4/2015	76	818	90
4/5/2015	76	783	90
4/6/2015	76	820	90
4/7/2015	80	792	90
4/8/2015	86	719	90
4/9/2015	96	730	90
4/10/2015	90	790	90
4/11/2015	95	886	90
4/12/2015	96	951	90
4/13/2015	77	937	90
4/14/2015	77	773	90
4/15/2015	76	680	90
4/16/2015	75	707	90
4/17/2015	77	676	90
4/18/2015	78	619	90
4/19/2015	77	612	90
4/20/2015	75	686	90
4/21/2015	94	757	90
4/22/2015	80	860	90
4/23/2015	87	837	90
4/24/2015	91	814	90
4/25/2015	77	927	90
4/26/2015	83	773	90
4/27/2015	89	858	90
4/28/2015	86	737	90
4/29/2015	81	913	90

The highlighted data was obtained from upstream temperature readings that would reflect temperature at the outfall. We believe the temperature gauge was not operational during this timeframe at the outfall.

4/30/2015	77	923	90
5/1/2015	84	1067	90
5/2/2015	88	1143	90
5/3/2015	91	957	90
5/4/2015	82	1093	90
5/5/2015	80	1045	90
5/6/2015	91	1041	90
5/7/2015	94	1009	90
5/8/2015	91	1000	90
5/9/2015	87	991	90
5/10/2015	84	1017	90
5/11/2015	85	1018	90
5/12/2015	83	982	90
5/13/2015	86	938	90
5/14/2015	81	971	90
5/15/2015	92	922	90
5/16/2015	92	895	90
5/17/2015	93	874	90
5/18/2015	93	852	90
5/19/2015	82	801	90
5/20/2015	79	772	90
5/21/2015	85	792	90
5/22/2015	97	772	90
5/23/2015	90	786	90
5/24/2015	83	824	90
5/25/2015	85	993	90
5/26/2015	79	1083	90
5/27/2015	81	740	90
5/28/2015	79	710	90
5/29/2015	80	769	90
5/30/2015	79	833	90
5/31/2015	74	821	90
6/1/2015	75	892	90
6/2/2015	78	950	90
6/3/2015	81	1000	90
6/4/2015	82	1049	90
6/5/2015	81	934	90
6/6/2015	81	1023	90
6/7/2015	80	890	90
6/8/2015	83	893	90
6/9/2015	83	790	90
6/10/2015	85	900	90
6/11/2015	86	957	90
6/12/2015	85	905	90
6/13/2015	85	1053	90
6/14/2015	86	1057	90
6/15/2015	87	1095	90

6/16/2015	87	1086	90
6/17/2015	85	1142	90
6/18/2015	86	1118	90
6/19/2015	83	1110	90
6/20/2015	82	1045	90
6/21/2015	84	988	90
6/22/2015	85	1025	90
6/23/2015	85	993	90
6/24/2015	84	1001	90
6/25/2015	84	907	90
6/26/2015	84	963	90
6/27/2015	93	1017	90
6/28/2015	92	1102	90
6/29/2015	91	1135	90
6/30/2015	97	1121	90
7/1/2015	88	1126	90
7/2/2015	82	1067	90
7/3/2015	81	1071	90
7/4/2015	83	1093	90
7/5/2015	84	1121	90
7/6/2015	84	1142	90
7/7/2015	84	1177	90
7/8/2015	80	1188	90
7/9/2015	81	915	90
7/10/2015	89	932	90
7/11/2015	80	970	90
7/12/2015	91	955	90
7/13/2015	90	1102	90
7/14/2015	91	1003	90
7/15/2015	89	1035	90
7/16/2015	88	1123	90
7/17/2015	94	1042	90
7/18/2015	93	1050	90
7/19/2015	96	1008	90
7/20/2015	89	1048	90
7/21/2015	89	1033	90
7/22/2015	79	796	90
7/23/2015	83	911	90
7/24/2015	90	918	90
7/25/2015	91	938	90
7/26/2015	91	969	90
7/27/2015	93	933	90
7/28/2015	86	841	90
7/29/2015	86	948	90
7/30/2015	84	907	90
7/31/2015	84	771	90
8/1/2015	84	751	90

8/2/2015	86	761	90
8/3/2015	87	818	90
8/4/2015	86	863	90
8/5/2015	86	847	90
8/6/2015	86	814	90
8/7/2015	85	744	90
8/8/2015	84	700	90
8/9/2015	84	739	90
8/10/2015	85	736	90
8/11/2015	84	628	90
8/12/2015	85	741	90
8/13/2015	86	745	90
8/14/2015	86	751	90
8/15/2015	87	763	90
8/16/2015	89	760	90
8/17/2015	89	758	90
8/18/2015	89	700	90
8/19/2015	88	734	90
8/20/2015	85	895	90
8/21/2015	82	875	90
8/22/2015	83	927	90
8/23/2015	88	959	90
8/24/2015	86	948	90
8/25/2015	76	890	90
8/26/2015	71	440	90
8/27/2015	79	753	90
8/28/2015	81	883	90
8/29/2015	81	827	90
8/30/2015	84	825	90
8/31/2015	85	722	90
9/1/2015	86	659	90
9/2/2015	87	787	90
9/3/2015	89	881	90
9/4/2015	89	982	90
9/5/2015	89	957	90
9/6/2015	89	923	90
9/7/2015	90	900	90
9/8/2015	90	883	90
9/9/2015	89	827	90
9/10/2015	87	894	90
9/11/2015	86	982	90
9/12/2015	84	967	90
9/13/2015	83	1003	90
9/14/2015	84	1007	90
9/15/2015	86	974	90
9/16/2015	87	925	90
9/17/2015	87	850	90

9/18/2015	86	883	90
9/19/2015	85	872	90
9/20/2015	85	901	90
9/21/2015	83	853	90
9/22/2015	82	788	90
9/23/2015	83	823	90
9/24/2015	80	754	90
9/25/2015	84	883	90
9/26/2015	86	913	90
9/27/2015	87	999	90
9/28/2015	86	852	90
9/29/2015	86	841	90
9/30/2015	80	786	90
10/1/2015	79	850	90
10/2/2015	76	781	90
10/3/2015	70	796	90
10/4/2015	73	814	90
10/5/2015	80	838	90
10/6/2015	81	820	90
10/7/2015	82	758	90
10/8/2015	81	755	90
10/9/2015	78	1030	90
10/10/2015	74	1000	90
10/11/2015	74	778	90
10/12/2015	77	624	90
10/13/2015	76	661	90
10/14/2015	77	552	90
10/15/2015	60	189	90
10/16/2015	61	344	90
10/17/2015	65	404	90
10/18/2015	67	470	90
10/19/2015	69	431	90
10/20/2015	62	133	90
10/21/2015	63	105	90
10/22/2015	74	290	90
10/23/2015	73	275	90
10/24/2015	74	271	90
10/25/2015	55	86	90
10/26/2015	56	90	90
10/27/2015	71	382	90
10/28/2015	68	348	90
10/29/2015	70	533	90
10/30/2015	69	414	90
10/31/2015	72	429	90
11/1/2015	74	377	90
11/2/2015	77	445	90
11/3/2015	79	429	90

11/4/2015	79	376	90
11/5/2015	67	80	90
11/6/2015	64	114	90
11/7/2015	64	196	90
11/8/2015	72	419	90
11/9/2015	73	390	90
11/10/2015	74	423	90
11/11/2015	75	457	90
11/12/2015	74	540	90
11/13/2015	73	566	90
11/14/2015	74	593	90
11/15/2015	67	265	90
11/16/2015	61	95	90
11/17/2015	71	394	90
11/18/2015	78	488	90
11/19/2015	76	445	90
11/20/2015	69	406	90
11/21/2015	73	571	90
11/22/2015	73	696	90
11/23/2015	74	643	90
11/24/2015	64	300	90
11/25/2015	58	142	90
11/26/2015	67	361	90
11/27/2015	76	693	90
11/28/2015	74	717	90
11/29/2015	73	719	90
11/30/2015	73	742	90
12/1/2015	75	804	60
12/2/2015	75	854	60
12/3/2015	74	918	60
12/4/2015	75	1059	60
12/5/2015	77	1125	60
12/6/2015	79	1130	60
12/7/2015	80	904	60
12/8/2015	78	889	60
12/9/2015	78	901	60
12/10/2015	78	976	60
12/11/2015	78	962	60
12/12/2015	81	859	60
12/13/2015	82	781	60
12/14/2015	82	834	60
12/15/2015	81	966	60
12/16/2015	81	899	60
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ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

PAT QUINN, GOVERNOR JOHN J. KIM, INTERIM DIRECTOR

Exhibit 3

217/782-0610

September 5, 2012

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

Re: Flint Hills Resources Chemical Intermediates, LLC – Joliet Plant
NPDES Permit No. IL0001643
Final Permit

Gentlemen:

Attached is the final NPDES Permit for your discharge. The Permit as issued covers discharge limitations, monitoring, and reporting requirements. The failure of you to meet any portion of the Permit could result in civil and/or criminal penalties. The Illinois Environmental Protection Agency is ready and willing to assist you in interpreting any of the conditions of the Permit as they relate specifically to your discharge.

The Agency made the following change to the final permit.

1. Special Condition 14 was updated in the permit. The condition outlines new requirements in the Stormwater Pollution Prevention Plan.

The Permit as issued is effective as of the date indicated on the first page of the Permit. You have the right to appeal any condition of the Permit to the Illinois Pollution Control Board within a 35 day period following the issuance date.

To assist you in meeting the self-monitoring and reporting requirements of your reissued NPDES permit, a supply of preprinted Discharge Monitoring report (DMR) forms for your facility is being prepared. These forms will be sent to you prior to the initiation of DMR reporting under the reissued permit. Additional information and instructions will accompany the preprinted DMRs upon their arrival.

Should you have questions concerning the Permit, please contact James M. Cowles at 217/782-0610.

Sincerely,

Alan Keller

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

SAK:DEL:JMC:11090101 IL0001643 Flint Hills Resources

Attachment: Final Permit

cc: Records
Compliance Assurance Section
Des Plaines Region
US EPA
CMAP
Billing

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: August 31, 2017

Issue Date: September 5, 2012
Effective Date: September 5, 2012

Name and Address of Permittee:

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

Facility Name and Address:

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

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

NPDES Permit No. IL0001643

Effluent Limitations and Monitoring

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

NPDES Permit No. IL0001643

Effluent Limitations and Monitoring

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

*See Special Condition 14.
**See Special Condition 13.
***Report Concentration (mg/l) – See Special Condition 11.

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

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

NPDES Permit No. IL0001643

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:

Special Conditions

a. Fish - 96 hour static LC_{50} Bioassay using fathead minnows (Pimephales promelas).

b. Invertebrate 48-hour static LC_{50} 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 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.

Special Conditions

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.

   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.

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 of 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 evapotranspirate 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.

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.

Special Conditions

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 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

NPDES Permit No. IL0001643

Special Conditions

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.

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.

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.

Frequency:	Reporting Date:
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

Special Conditions

*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.

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 waste 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 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 Conditions

SPECIAL CONDITION 22: Total Suspended Solids Sampling Procedure

The permittee may 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.

Attachment H

Standard Conditions

Definitions

Act means the Illinois Environmental Protection Act, 415 ILCS 5 as Amended.

Agency means the Illinois Environmental Protection Agency.

Board means the Illinois Pollution Control Board.

Clean Water Act (formerly referred to as the Federal Water Pollution Control Act) means Pub. L 92-500, as amended. 33 U.S.C. 1251 et seq.

NPDES (National Pollutant Discharge Elimination System) means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 402, 318 and 405 of the Clean Water Act.

USEPA means the United States Environmental Protection Agency.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurements, the "daily discharge" is calculated as the average measurement of the pollutant over the day.

Maximum Daily Discharge Limitation (daily maximum) means the highest allowable daily discharge.

Average Monthly Discharge Limitation (30 day average) means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Discharge Limitation (7 day average) means the highest allowable average of daily discharges over a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Aliquot means a sample of specified volume used to make up a total composite sample.

Grab Sample means an individual sample of at least 100 milliliters collected at a randomly-selected time over a period not exceeding 15 minutes.

24-Hour Composite Sample means a combination of at least 8 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24-hour period.

8-Hour Composite Sample means a combination of at least 3 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over an 8-hour period.

Flow Proportional Composite Sample means a combination of sample aliquots of at least 100 milliliters collected at periodic intervals such that either the time interval between each aliquot or the volume of each aliquot is proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot.

(1) **Duty to comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or for denial of a permit renewal application. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirements.

(2) **Duty to reapply.** If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. If the permittee submits a proper application as required by the Agency no later than 180 days prior to the expiration date, this permit shall continue in full force and effect until the final Agency decision on the application has been made.

(3) **Need to halt or reduce activity not a defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(4) **Duty to mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

(5) **Proper operation and maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up, or auxiliary facilities, or similar systems only when necessary to achieve compliance with the conditions of the permit.

(6) **Permit actions.** This permit may be modified, revoked and reissued, or terminated for cause by the Agency pursuant to 40 CFR 122.62 and 40 CFR 122.63. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

(7) **Property rights.** This permit does not convey any property rights of any sort, or any exclusive privilege.

(8) **Duty to provide information.** The permittee shall furnish to the Agency within a reasonable time, any information which the Agency may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also furnish to the Agency upon request, copies of records required to be kept by this permit.

(9) **Inspection and entry.** The permittee shall allow an authorized representative of the Agency or USEPA (including an authorized contractor acting as a representative of the Agency or USEPA), upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

(d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance, or as otherwise authorized by the Act, any substances or parameters at any location.

(10) **Monitoring and records.**

(a) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

(b) The permittee shall retain records of all monitoring information, including all calibration and maintenance records, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of this permit, measurement, report or application. Records related to the permittee's sewage sludge use and disposal activities shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503). This period may be extended by request of the Agency or USEPA at any time.

(c) Records of monitoring information shall include:

(1) The date, exact place, and time of sampling or measurements;

(2) The individual(s) who performed the sampling or measurements;

(3) The date(s) analyses were performed;

(4) The individual(s) who performed the analyses;

(5) The analytical techniques or methods used; and

(6) The results of such analyses.

(d) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit. Where no test procedure under 40 CFR Part 136 has been approved, the permittee must submit to the Agency a test method for approval. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to ensure accuracy of measurements.

(11) **Signatory requirement.** All applications, reports or information submitted to the Agency shall be signed and certified.

(a) **Application.** All permit applications shall be signed as follows:

(1) For a corporation: by a principal executive officer of at least the level of vice president or a person or position having overall responsibility for environmental matters for the corporation;

(2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

(3) For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official.

(b) **Reports.** All reports required by permits, or other information requested by the Agency shall be signed by a person described in paragraph (a) or by a duly authorized representative of that person. A person is a duly authorized representative only if:

(1) The authorization is made in writing by a person described in paragraph (a); and

(2) The authorization specifies either an individual or a position responsible for the overall operation of the facility, from which the discharge originates, such as a plant manager, superintendent or person of equivalent responsibility; and

(3) The written authorization is submitted to the Agency.

(c) **Changes of Authorization.** If an authorization under (b) is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of (b) must be submitted to the Agency prior to or together with any reports, information, or applications to be signed by an authorized representative.

(d) **Certification.** Any person signing a document under paragraph (a) or (b) of this section shall make the following certification:

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

(12) **Reporting requirements.**

(a) **Planned changes.** The permittee shall give notice to the Agency as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required when:

(1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source pursuant to 40 CFR 122.29 (b); or

(2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements pursuant to 40 CFR 122.42 (a)(1).

(3) The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

(b) **Anticipated noncompliance.** The permittee shall give advance notice to the Agency of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(c) **Transfers.** This permit is not transferable to any person except after notice to the Agency.

(d) **Compliance schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

(e) **Monitoring reports.** Monitoring results shall be reported at the intervals specified elsewhere in this permit.

(1) Monitoring results must be reported on a Discharge Monitoring Report (DMR).

(2) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.

(3) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Agency in the permit.

(f) **Twenty-four hour reporting**. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24-hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and time; and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The following shall be included as information which must be reported within 24-hours:

(1) Any unanticipated bypass which exceeds any effluent limitation in the permit.

(2) Any upset which exceeds any effluent limitation in the permit.

(3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Agency in the permit or any pollutant which may endanger health or the environment.

The Agency may waive the written report on a case-by-case basis if the oral report has been received within 24-hours.

(g) **Other noncompliance**. The permittee shall report all instances of noncompliance not reported under paragraphs (12) (d), (e), or (f), at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (12) (f).

(h) **Other Information**. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, or in any report to the Agency, it shall promptly submit such facts or information.

(13) **Bypass**.

(a) Definitions.

(1) Bypass means the intentional diversion of waste streams from any portion of a treatment facility.

(2) Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

(b) Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs (13)(c) and (13)(d).

(c) Notice.

(1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.

(2) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in paragraph (12)(f) (24-hour notice).

(d) Prohibition of bypass.

(1) Bypass is prohibited, and the Agency may take enforcement action against a permittee for bypass, unless:

(i) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(ii) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

(iii) The permittee submitted notices as required under paragraph (13)(c).

(2) The Agency may approve an anticipated bypass, after considering its adverse effects, if the Agency determines that it will meet the three conditions listed above in paragraph (13)(d)(1).

(14) **Upset**.

(a) Definition. Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

(b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph (14)(c) are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

(c) Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An upset occurred and that the permittee can identify the cause(s) of the upset;

(2) The permitted facility was at the time being properly operated; and

(3) The permittee submitted notice of the upset as required in paragraph (12)(f)(2) (24-hour notice).

(4) The permittee complied with any remedial measures required under paragraph (4).

(d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

(15) **Transfer of permits.** Permits may be transferred by modification or automatic transfer as described below:

(a) Transfers by modification. Except as provided in paragraph (b), a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued pursuant to 40 CFR 122.62 (b) (2), or a minor modification made pursuant to 40 CFR 122.63 (d), to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act.

(b) Automatic transfers. As an alternative to transfers under paragraph (a), any NPDES permit may be automatically

transferred to a new permittee if:
(1) The current permittee notifies the Agency at least 30 days in advance of the proposed transfer date;
(2) The notice includes a written agreement between the existing and new permittees containing a specified date for transfer of permit responsibility, coverage and liability between the existing and new permittees; and
(3) The Agency does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement.

(16) All manufacturing, commercial, mining, and silvicultural dischargers must notify the Agency as soon as they know or have reason to believe:
(a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant identified under Section 307 of the Clean Water Act which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:
(1) One hundred micrograms per liter (100 ug/l);
(2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6 dinitrophenol; and one milligram per liter (1 mg/l) for antimony.
(3) Five (5) times the maximum concentration value reported for that pollutant in the NPDES permit application; or
(4) The level established by the Agency in this permit.
(b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the NPDES permit application.

(17) All Publicly Owned Treatment Works (POTWs) must provide adequate notice to the Agency of the following:
(a) Any new introduction of pollutants into that POTW from an indirect discharge which would be subject to Sections 301 or 306 of the Clean Water Act if it were directly discharging those pollutants; and
(b) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.
(c) For purposes of this paragraph, adequate notice shall include information on (i) the quality and quantity of effluent introduced into the POTW, and (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

(18) If the permit is issued to a publicly owned or publicly regulated treatment works, the permittee shall require any industrial user of such treatment works to comply with federal requirements concerning:
(a) User charges pursuant to Section 204 (b) of the Clean Water Act, and applicable regulations appearing in 40 CFR 35;
(b) Toxic pollutant effluent standards and pretreatment standards pursuant to Section 307 of the Clean Water Act; and
(c) Inspection, monitoring and entry pursuant to Section 308 of the Clean Water Act.

(19) If an applicable standard or limitation is promulgated under Section 301(b)(2)(C) and (D), 304(b)(2), or 307(a)(2) and that effluent standard or limitation is more stringent than any effluent limitation in the permit, or controls a pollutant not limited in the permit, the permit shall be promptly modified or revoked, and reissued to conform to that effluent standard or limitation.

(20) Any authorization to construct issued to the permittee pursuant to 35 Ill. Adm. Code 309.154 is hereby incorporated by reference as a condition of this permit.

(21) The permittee shall not make any false statement, representation or certification in any application, record, report, plan or other document submitted to the Agency or the USEPA, or required to be maintained under this permit.

(22) The Clean Water Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed $25,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the Clean Water Act is subject to a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than one year, or both. Additional penalties for violating these sections of the Clean Water Act are identified in 40 CFR 122.41 (a)(2) and (3).

(23) The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than $20,000 per day of violation, or by imprisonment of not more than 4 years, or both.

(24) The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

(25) Collected screening, slurries, sludges, and other solids shall be disposed of in such a manner as to prevent entry of those wastes (or runoff from the wastes) into waters of the State. The proper authorization for such disposal shall be obtained from the Agency and is incorporated as part hereof by reference.

(26) In case of conflict between these standard conditions and any other condition(s) included in this permit, the other condition(s) shall govern.

(27) The permittee shall comply with, in addition to the requirements of the permit, all applicable provisions of 35 Ill. Adm. Code, Subtitle C, Subtitle D, Subtitle E, and all applicable orders of the Board or any court with jurisdiction.

(28) The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit is held invalid, the remaining provisions of this permit shall continue in full force and effect.