

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

WRB Refining LLC)
(Property Identification Number) PCB 012-
19-1-08-34-00-000-006) (Tax Certification
)

NOTICE

Clerk
Illinois Pollution Control Board
James R. Thompson Center
100 West Randolph Street, Suite. 11-500
Chicago, Illinois 60601

Michael Kemp
404 Phillips Building
Bartlesville, Oklahoma 74004

Steve Santarelli
Illinois Department of Revenue
101 West Jefferson
Post Office Box 19033
Springfield, Illinois 62794

PLEASE TAKE NOTICE that I have today filed with the Office of the Clerk of the Pollution Control Board an **APPEARANCE AND THE RECOMMENDATION** of the Illinois Environmental Protection Agency, a copy of which is herewith served upon you.

ILLINOIS ENVIRONMENTAL PROTECTION
AGENCY

By: 
Vera Herst
Assistant Counsel
Division of Legal Counsel

DATED: February 15, 2012

Illinois Environmental Protection Agency
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276
(217) 782-5544

THIS FILING IS SUBMITTED ON RECYCLED PAPER

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

WRB Refining LLC)
(Property Identification Number) PCB 012-
19-1-08-34-00-000-006) (Tax Certification
)

A P P E A R A N C E

The undersigned, as one of its attorneys, hereby enters an APPEARANCE on behalf of Respondent, Illinois Environmental Protection Agency.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

By: Vera Herst
Vera Herst
Assistant Counsel
Division of Legal Counsel

DATED: February 15, 2012
Illinois Environmental Protection Agency
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276
(217)782-5544

THIS FILING IS SUBMITTED ON RECYCLED PAPER

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

WRB Refining LLC)
(Property Identification Number) PCB 012-
19-1-08-34-00-000-006) (Tax Certification
)

RECOMMENDATION

The Illinois Environmental Protection Agency ("Illinois EPA") hereby files its Recommendation pursuant to Section 125.204 of the regulations of the Illinois Pollution Control Board, 35 Ill. Adm. Code 125.204.

1. On June 29, 2011, the Illinois EPA received a request from WRB Refining LLC (log number TC-07-11, Exhibit A) for an Illinois EPA recommendation regarding the tax certification of water pollution control facilities pursuant to 35 Ill. Adm. Code 125.204.
2. The applicant's address is: WRB Refining LLC
900 S. Central Ave
Roxanna, Illinois 62084
3. The proposed water pollution control facilities in this request are located at **Section 34 SE ¼**, T5N, R9W, in Madison County, at the above street address and consist of the following:

The removal and replacement of existing facilities described as Pond 1 with a 100 ft x 300 ft x 24 ft activated sludge unit, four 600 HP centrifugal blowers, and eight 100 HP floating surface aerators, a third 100 ft diameter secondary clarifier in parallel with the two existing clarifiers, a new splitter box, and an upgraded clarifier feed pumping station from a design capacity of 12,000 gpm to 13,300 gpm; and the existing Pond 2 subdivided into two portions, a 3.2 MM gallon aerobic zone separated by a fabric curtain from the 1.0 MM gallon anoxic denitrification zone with four new 7.5 HP floating mechanical mixers and a methanol feed systems and the addition of two scrubber solids clarifiers with dewatering boxes, and all pipes, pumps and appurtenances necessary to upgrade the wastewater treatment plant from 7.93 MGD DAF, 13.73 MGD DMF to 10.97 MGD DAF, 14.4 MGD DMF.

THIS FILING IS SUBMITTED ON RECYCLED PAPER

These pollution control facilities have the primary purpose of eliminating, preventing, or reducing water pollution, and are further described in Exhibit A.

4. Section 11-10 of the Property Tax Code, 35 ILCS 200/11-10 (2010), defines “pollution control facilities” as:
“any system, method, construction, device or appliance appurtenant thereto or any portion of any building or equipment, that is designed, constructed, installed or operated for the primary purpose of: (a) eliminating, preventing, or reducing air or water pollution ...or (b) treating, pretreating, modifying or disposing of any potential solid, liquid or gaseous pollutant which if released without treatment, pretreatment modification or disposal might be harmful, detrimental or offensive to human, plant or animal life, or to property.”
5. Pollution control facilities are entitled to preferential tax treatment, 35 ILCS 200/11-5.
6. Based on the information in the application and the purpose of the facilities, it is the Illinois EPA’s engineering judgment that the described facilities may be considered “pollution control facilities,” pursuant to 35 Ill. Adm. Code 125.200(a), with the primary purpose of eliminating, preventing, or reducing water pollution, or as otherwise provided in 35 Ill. Adm. Code 125.200, and are eligible for tax certification from the Board.

WHEREFORE, the Illinois EPA recommends that the Board issue the

THIS FILING IS SUBMITTED ON RECYCLED PAPER

requested tax certification.

ILLINOIS ENVIRONMENTAL
PROTECTION AGENCY

By: *Vera Herst*
Vera Herst
Assistant Counsel
Division of Legal Counsel

Dated: February 15, 2012
Illinois Environmental Protection Agency
1021 North Grand Ave. E.
P.O. Box 19276
Springfield, Illinois 62794-9276
217/782-5544

THIS FILING IS SUBMITTED ON RECYCLED PAPER



Memorandum

To: Connie Tonsor, Division of Legal Counsel

From: Alan Keller, Manager, Permit Section *AK*

Date: November 21, 2011

Re: WRB Refining LLC
Recommendation of Tax Certification
Log # TC-07-11
Property Identification # 19-1-08-34-00-000-006

The Bureau of Water received a request on June 29, 2011 from WRB Refining LLC for an Illinois EPA recommendation regarding the tax certification of water pollution control facilities pursuant to 35 Il. Adm. Code 125.204. We offer the following recommendation.

The water pollution control facilities in this request include the following:

WRB Refining LLC
404 Phillips Building
Bartlesville, OK 74004

Facility location: 900 S. Central Avenue in Roxana, Illinois.

The removal and replacement of existing facilities described as Pond 1 with a 100 ft X 300 ft X 24 ft activated sludge unit, four 600 hp centrifugal blowers, and eight 100 HP floating surface aerators, a third 100 ft diameter secondary clarifier in parallel with the two existing clarifiers, a new splitter box, and an upgraded clarifier feed pumping station from a design capacity of 12,000 gpm to 13,300 gpm, and the existing Pond 2 subdivided into 2 portions, a 3.2 MM gallon aerobic zone separated by a fabric curtain from the 1.0 MM gallon anoxic denitrification zone with four new 7.5 HP floating mechanical mixers and a methanol feed system and the addition of 2 scrubber solids clarifiers with dewatering boxes and all pipes, pumps and appurtenances necessary to upgrade the wastewater treatment plant from 7.93 MGD DAF, 13.73 MGD DMF to 10.97 MGD DAF, 14.4 MGD DMF.

These facilities are further described in the enclosed applications and supporting documents.

Based on the information included in this submittal, it is our engineering judgment that the above proposed facilities may be considered "Pollution Control Facilities" under 35 IAC 125.200(a), with the primary purpose of eliminating, preventing, or reducing water pollution, or as otherwise provided in this section, and therefore eligible for tax certification from the Illinois Pollution Control Board. The Bureau of Water therefore recommends that the Board issue the requested tax certification for these facilities.

If you have any questions regarding the above, please contact Jaime Rabins at 217/782-0610.

SAK:JAR:TC0711.docx

cc: Tax Cert File

ENVIRONMENTAL PROTECTION AGENCY

Subject: WRB Refining LLC
Data: TC-07-11
Reviewed By: Jaime Rabins

Page 1 of 1

Date: July 12, 2011

Applicant: WRB Refining LLC
404 Phillips Building
Bartlesville, OK 74004

Facility location: 900 S. Central Avenue in Roxana, Illinois.

On June 29, 2011 the Agency received a request to make a recommendation regarding the tax certification for the following:

The removal and replacement of existing facilities described as Pond 1 with a 100 ft X 300 ft X 24 ft activated sludge unit, four 600 hp centrifugal blowers, and eight 100 HP floating surface aerators, a third 100 ft diameter secondary clarifier in parallel with the two existing clarifiers, a new splitter box, and an upgraded clarifier feed pumping station from a design capacity of 12,000 gpm to 13,300 gpm, and the existing Pond 2 subdivided into 2 portions, a 3.2 MM gallon aerobic zone separated by a fabric curtain from the 1.0 MM gallon anoxic denitrification zone with four new 7.5 HP floating mechanical mixers and a methanol feed system and the addition of 2 scrubber solids clarifiers with dewatering boxes and all pipes, pumps and appurtenances necessary to upgrade the wastewater treatment plant from 7.93 MGD DAF, 13.73 MGD DMF to 10.97 MGD DAF, 14.4 MGD DMF.

The upgrades were authorized to be constructed by permit 2007-EB-3690 issued on August 16, 2007.

The pretreatment systems' primary purpose is to prevent and eliminate pollutants which if not treated might be harmful, detrimental or offensive to human, plant or animal life, or to property as defined in 35 IAC 125.200(a).

Action: Recommend for consideration of Pollution Control Facilities.

***** PCB 2012-106 *****
 APPLICATION FOR CERTIFICATION (PROPERTY TAX TREATMENT)
 POLLUTION CONTROL FACILITY
 AIR WATER

This Agency is authorized to request this information under Illinois Revised Statutes, 1979, Chapter, 120, Section 502a-5. Disclosure of this information is voluntary. However, failure to comply could prevent your application from being processed or could result in denial of your application for certification.

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
 P. O. Box 19276, Springfield, IL 62794-9276

FOR AGENCY USE

File No.	Date Received	Certification No.	Date	
Sec. A APPLICANT	Company Name WRB Refining LLC			
	Person Authorized to Receive Certification Michael Kemp		Person to Contact for Additional Details Jay Rankin	
	Street Address 404 Phillips Building		Street Address 900 S. Central Ave., P.O. Box 76	
	Municipality, State & Zip Code Bartlesville, OK 74004		Municipality, State & Zip Code Roxana, IL 62084	
	Telephone Number (918) 661-9055		Telephone Number (618) 255-2737	
	Location of Facility Quarter Section 34 SE 1/4		Municipality Hartford	Township Wood River
	Township 5 N		Range 9 W	County Madison
	Street Address 900 S. Central Ave.		County Madison	Book Number
	Property Identification Number		Parcel Number 19-1-08-34-00-000-006	
	Sec. B MANUFACTURING OPERATIONS	Nature of Operations Conducted at the Above Location Petroleum Refining		
Water Pollution Control Construction Permit No. 2007EB3690		Date Issued 08/16/07		
NPDES PERMIT No. IL0000205		Date Issued 04/14/04	Expiration Date 04/14/09	
Air Pollution Control Construction Permit No. 06050052		Date Issued 08/05/08		
Air Pollution Control Operating Permit No. 95120306		Date Issued 11/07/03		
Sec. C MANUFACTURING PROCESS	Describe Unit Process See Waste Water Treatment Plant (WWTP) Upgrade Project attachment.			
	Materials Used in Process Sulfuric Acid, Caustic, Nitrogen, Air, methanol, Phosphoric Acid, bacteria for biological treatment of the water.			
Sec. D POLLUTION CONTROL FACILITY DESCRIPTION	Describe Pollution Abatement Control Facility See Waste Water Treatment Plant (WWTP) Upgrade Project attachment.			

**APPLICATION FOR CERTIFICATION (PROPERTY TAX TREATMENT)
POLLUTION CONTROL FACILITY
WRB – Wood River Refinery**

Project: Waste Water Treatment Plant (WWTP) Upgrade Project

Section C – Manufacturing Process

Process Description:

The sole purpose of the Wood River Refinery Waste Water Treatment Plant (WWTP) is to remove pollutants from refinery water streams so that the water discharged from the refinery meets the requirements of the National Pollutant Discharge Elimination System (NPDES) permit and can be discharged to the Mississippi River.

The Wood River WWTP Upgrade Project was implemented to increase the capacity of the WWTP and to improve the capability of the WWTP to recover solids from the refinery waste water. This increased capacity and improved solids removal was necessary primarily to process the waste water produced by two new Fluid Cat Cracker Wet Gas Scrubbers which were installed to comply with the Wood River Consent Decree.

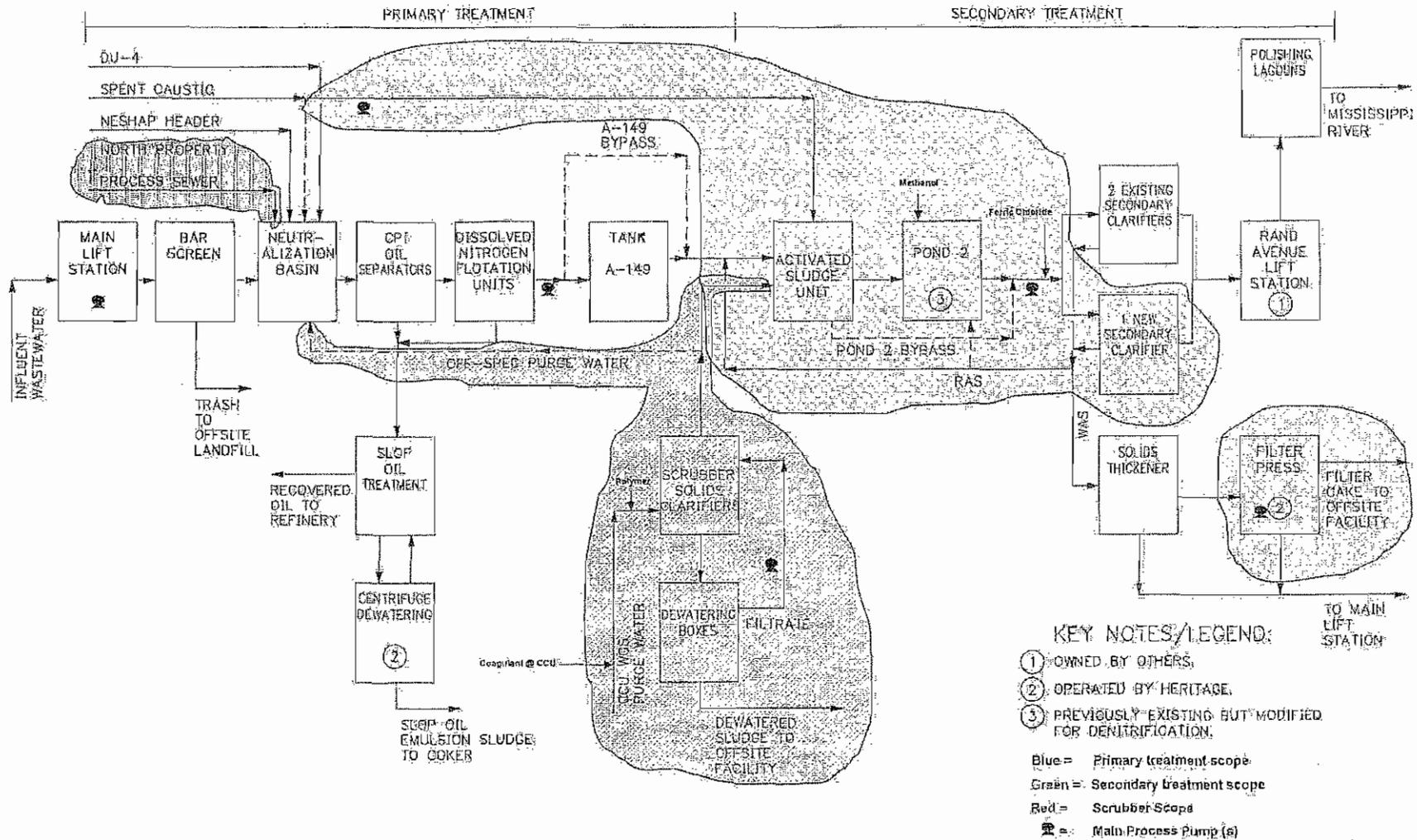
Water from all refinery process, sanitary, and some storm sewers and water from the Refinery NESHAP header is routed to the WWTP. The combined water stream flows to eight corrugated plate interceptor (CPI) separators where oil and solids are separated from the waste water. The recovered oil is transferred to heated tanks to remove entrained water and break emulsions that may be present. This recovered oil is returned to the refinery for processing into transportation fuels. Recovered solids are sent to a solids dewatering facility to be centrifuged. These solids are then fed to the refinery Delayed Coker unit and converted to coke.

The water from the CPI separators flows to Dissolved Nitrogen Flotation (DNF) units where bubbling nitrogen gas is used to enhance oil removal from the water. This recovered oil is also returned to the refinery for processing into transportation fuels. Clarified DNF effluent is then pumped to an equalization tank. From the equalization tank, water flows to the Activated Sludge Unit (ASU) for biological and chemical treatment of the water. In the ASU, water pH is adjusted and dissolved organic compounds are biologically oxidized to CO₂ and water, dissolved ammonia is biologically oxidized to nitrate, and sulfur compounds are oxidized to sulfates.

Water from the ASU flows to Pond 2 for further treatment. Pond 2 has an aeration zone for further organic and ammonia contaminant removal and an anoxic zone for nitrate conversion to nitrogen (N₂) gas. From Pond 2, the water is pumped to three secondary clarifiers to recover the activated sludge and return it to the ASU. Effluent from the secondary clarifiers is routed to polishing lagoons to allow additional solids settling. The water is then discharged to the Mississippi River. The water discharge is sampled as required to confirm it meets all NPDES permit requirements.

In addition to expanding WWTP capacity by installing a new Activated Sludge Unit (ASU) and new Secondary Clarifier along with associated air blowers, pumps, and solids handling equipment, the WWTP Upgrade Project installed two Scrubber Solids Clarifiers (SSCs) which remove catalyst fines from the purge water from the two new Fluid Cat Cracker Wet Gas Scrubbers which were installed to comply with the Wood River Consent Decree. The water from the SSCs contains sulfites and is routed to the ASU so that the sulfur compounds can be oxidized to sulfates to meet the NPDES permit.

WWTP Status Update: BFD POST CORE



STATE OF ILLINOIS

COUNTY OF SANGAMON

)
)
)
)
)

PROOF OF SERVICE

I, the undersigned attorney at law, hereby certify that on February 15, 2012, I served true and correct copies of an **APPEARANCE AND THE RECOMMENDATION**, upon the persons and by the methods as follows:

[1st Class U.S. Mail]

Steve Santarelli
Illinois Department of Revenue
101 West Jefferson
Post Office Box 19033
Springfield, Illinois 62794

[1st Class U.S. Mail]

Michael Kemp
404 Phillips Bnilding
Bartlesville, Oklahoma 74004

[Electronic Filing]

Clerk
Illinois Pollution Control Board
James R. Thompson Center
100 West Randolph Street, Suite. 11-500
Chicago, Illinois 60601

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

/s/ Vera Herst
Assistant Counsel
Division of Legal Counsel
1021 North Grand Avenue East
P.O. Box 19276-
Springfield, Illinois 62794-9276
217.782.5544
217.782.9143 (TDD)

THIS FILING IS SUBMITTED ON RECYCLED PAPER