

NPDES Permit No. IL0077925
Notice No. BWC:15112501.bwc

Public Notice Beginning Date: **December 31, 2015**

Public Notice Ending Date: **February 1, 2015**

National Pollutant Discharge Elimination System (NPDES)
Permit Program

Draft Reissued NPDES Permit to Discharge into Waters of the State

Public Notice/Fact Sheet Issued By:

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

Name and Address of Discharger:

Cristal Metals Inc.
1501 Titanium Drive
Ottawa, Illinois 61350

Name and Address of Facility:

Cristal Metals Inc.
1501 Titanium Drive
Ottawa, Illinois 61350
(La Salle County)

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

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

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

The applicant is engaged in the production of titanium powder by means of reacting titanium tetrachloride with sodium (SIC 3314). Waste water is generated from process rinse water. Plant operation results in an average discharge of 0.07 MGD of process rinse water from Outfall 001.

The rinse water is treated using a 0.3 micron filtration system prior to discharge.

All stormwater discharges are currently permitted under NPDES Permit Number ILR006942. All sanitary wastewater is discharged to the City of Ottawa STP under an existing sanitary sewer connection permitted under IEPA DWPC Permit Number 2006-HB-2446.

The following modifications are proposed:

As a result of a change of ownership, the discharger and facility's name have been changed from International Titanium Powder, LLC to Cristal Metals Inc. The permittee and facility's address have also both been changed to 1501 Titanium Drive, Ottawa, Illinois 61350.

Due to the elimination of the Total Dissolved Solids (TDS) water quality standard, the TDS monitoring requirement has been removed from the permit and replaced with a sulfate monitoring requirement.

Application is made for existing discharges which are located in La Salle County, Illinois. The following information identifies the discharge point, receiving stream and stream classifications:

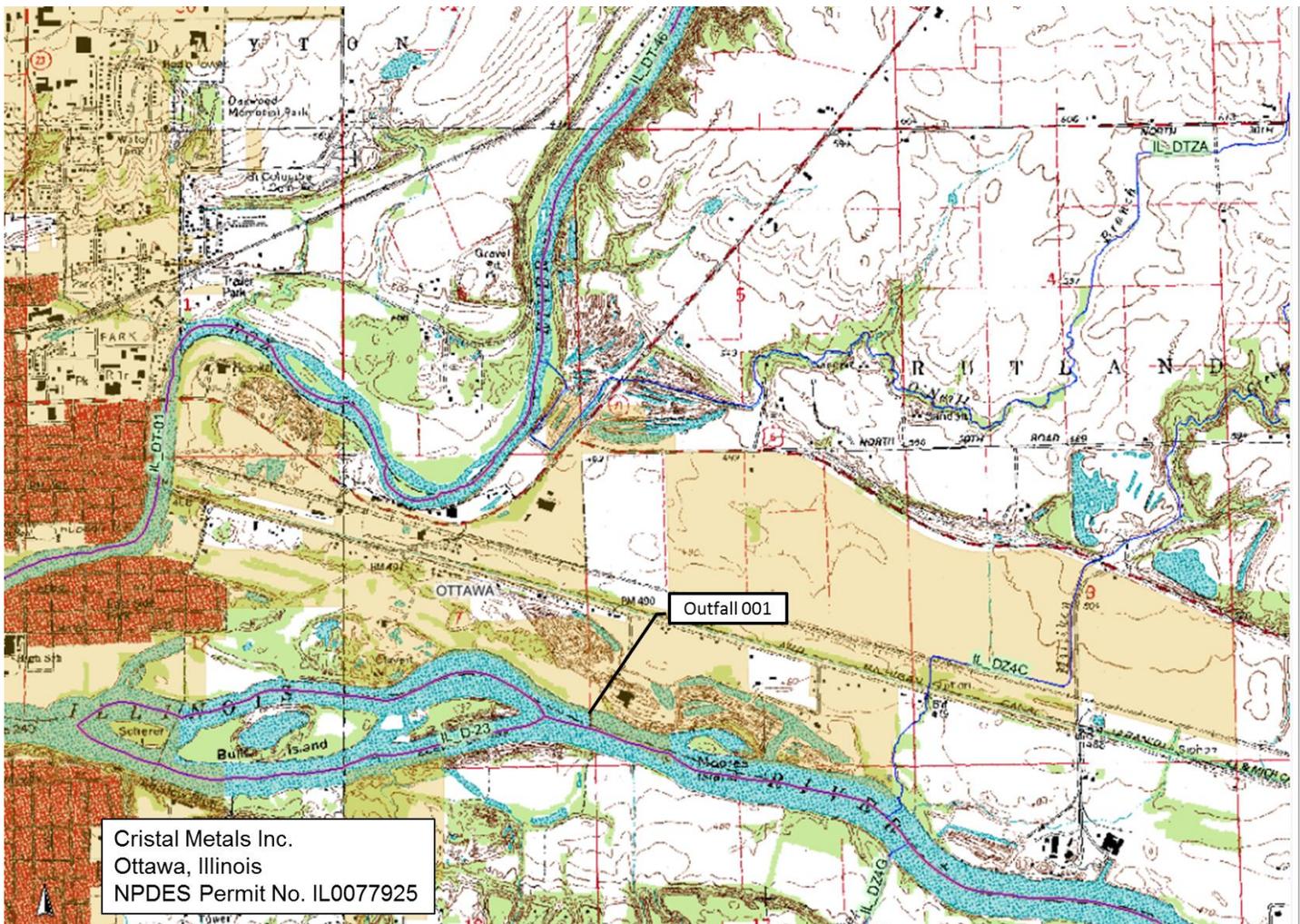
Outfall	Receiving Stream	Latitude		Longitude		Stream Classification	Integrity Rating
001	Illinois River	41° 20' 35"	North	88° 48' 13"	West	General Use	Not Rated

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

The stream segment, IL D-23, receiving the discharges from outfall(s) 001 is on the 2014 303(d) list of impaired waters and is not a biologically significant stream on the 2008 Illinois Department of Natural Resources Publication – *Integrating Multiple Taxa in a Biological Stream Rating System*.

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

Designated Use	Impairment(s)
Fish Consumption	Mercury, PCBs
Primary Contact Recreation	Fecal Coliform



The discharges from the facility shall be monitored and limited at all times as follows:

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/l		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
<u>Outfalls 001:</u>						
Flow (MGD)						
pH				6.5 – 9 s.u.		35 IAC 302.204
Total Suspended Solids	8.76	17.51		15	30	35 IAC 304.124
Chloride				Monitor Only		
Sulfate				Monitor Only		

Load Limit Calculations:

Load limit calculations for total suspended solids were based on an average and maximum flow of 0.07 MGD and using the formula of maximum flow (MGD) X concentration limit (mg/l) X 8.34 = the average or maximum load limit (lbs/day).

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

The following explain the conditions of the proposed permit:

The special conditions clarify flow reporting requirements, pH limitations and reporting requirements, monitoring location, discharge monitoring report submission requirements, a re-opener clause, requirements to submit a mixing zone study, and requirements to comply with water quality standards.

NPDES Permit No. IL0077925

Illinois Environmental Protection Agency

Division of Water Pollution Control

1021 North Grand Avenue East

Post Office Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date:

Issue Date:

Effective Date:

Name and Address of Permittee:

Facility Name and Address:

Cristal Metals Inc.
1501 Titanium Drive
Ottawa, Illinois 61350

Cristal Metals Inc.
1501 Titanium Drive
Ottawa, Illinois 61350
(La Salle County)

Discharge Number and Name:

Receiving Waters:

001 Process Rinse Water

Illinois River

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

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

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

SAK:BWC:15112501.bwc

Effluent Limitations and Monitoring

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

PARAMETER	LOAD LIMITS lbs/day <u>DAF (DMF)</u>		CONCENTRATION <u>LIMITS mg/l</u>		SAMPLE FREQUENCY	SAMPLE TYPE
	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM		
<u>Outfalls 001 – Process Rinse Water</u> (DAF= 0.07 MGD)						
Flow (MGD)	See Special Condition 1.				Continuous	Measurement
pH	See Special Condition 2.				1/Week	Grab
Total Suspended Solids	8.76	17.51	15	30	1/Week	Composite
Chloride			Monitor Only		1/Week	Composite
Sulfate			Monitor Only		1/Week	Composite

Special Conditions

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

SPECIAL CONDITION 2. The pH shall be in the range 6.5 to 9.0. 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 (NetDMRs) instead of mailing paper DMRs to the IEPA. More information, including registration information for the NetDMR program, can be obtained on the IEPA website, <http://www.epa.state.il.us/water/net-dmr/index.html>.

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

Permittees not using NetDMRs 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. 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 5. 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 6. For the purpose of this permit, the discharge from Outfall 001 is limited to process rinse water, free from any other wastewater discharges.

SPECIAL CONDITION 7. In addition to the other requirements of this permit, no effluent shall contain settleable solids, floating debris, visible oil, grease, scum or sludge solids. Color, odor and turbidity must be reduced to below obvious levels.

SPECIAL CONDITION 8. The effluent, alone or in combination with other sources, shall not cause a violation of any applicable water quality standard outlined in 35 Ill. Adm. Code 302.

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

SPECIAL CONDITION 10. The permittee must conduct a field study to confirm the predicted mixing efficiency of the outfall diffuser structure. This study must be completed during the first summer following the effective date of this permit. The study must be conducted during river flows that are at or below harmonic mean flow of the river at this location (7250 cfs). Physical or chemical measurements indicative of chloride concentration, i.e., dye or conductivity, must be used to illustrate effluent plume concentrations. The study must then relate this information back to the predicted concentrations from the predictive model. If the actual mixing is found to be less efficient than the model predicted, the mixing patterns in the river as expected during 7Q10 flow conditions must be provided in graphical format. The report for this study is due to the Agency's Compliance Assurance Section no later than two years from the effective date of this permit.

