

NPDES Permit No. IL0000612  
Notice No. MEL:13012203.bah

Public Notice Beginning Date: **July 5, 2013**

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

National Pollutant Discharge Elimination System (NPDES)  
Permit Program

Draft Reissued NPDES Permit to Discharge into Waters of the State

Public Notice/Fact Sheet Issued By:

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

Name and Address of Permittee:

Alton Steel Inc.  
5 Cut Street  
Alton, Illinois 62002

Name and Address of Facility:

Alton Steel Inc.  
5 Cut Street  
Alton, Illinois 62002  
(Madison 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 Permittee. 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 Mark E. Liska at 217/782-0610.

The applicant is engaged in the production of steel from scrap using an electric arc furnace (SIC 3312). Waste water is generated from melt shop cooling water blowdown (contact and non-contact), spray chamber cooling, office, groundwater seepage, and stormwater runoff. Plant operation results in an average discharge of 0.727 MGD of contact and non-contact cooling water blowdown, office, stormwater runoff, and groundwater seepage from outfall 001, and an intermittent discharge of stormwater from outfalls H01 and D04.

The following modification is proposed: Stormwater outfall K01 has been deleted from the permit. It has been determined that the stormwater discharging to this outfall comes entirely from outside facilities that have been properly permitted.

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

<u>Outfall</u>	<u>Receiving Stream</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Stream Classification</u>	<u>Integrity Rating</u>
001	Mississippi River	38° 52' 30" North	90° 09' 29" West	General Use	Not Rated
H01	Unnamed tributary to Mississippi River	38° 52' 00" North	90° 08' 00" West	General Use	Not Rated
D04	Unnamed tributary to Mississippi River	38° 53' 00" North	90° 09' 15" West	General Use	Not Rated

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

The stream segment J-05 receiving the discharge from outfall(s) 001 is on the draft 2012 303(d) list of impaired waters and is (is not) a biologically significant stream on the 2008 Illinois Department of Natural Resources Publication – *Integrating Multiple Taxa in a Biological Stream Rating System*.

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

<u>Potential Cause</u>	<u>Designated Use</u>
Mercury, PCBs	Fish Consumption
Manganese	Public and Food Processing Water Supply
Fecal Coliform	Primary Contact - Recreation

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

Outfall: 001

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/L		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
Flow (MGD)						35 IAC 309.146
pH	Shall be in the range of 6 - 9(10)					35 IAC 304.125(d)(2)
Temperature				Standard		35 IAC 303.35(b)
Oil and Grease	66	132	40 CFR 420.62 35 IAC 304.124	15	30	35 IAC 304.124
Total Suspended Solids	91	182	35 IAC 304.124	15	30	35 IAC 304.124
Iron (Total)	12	24	35 IAC 304.124	2	4	35 IAC 304.124
Lead	0.55	0.86	40 CFR 122.44(I) 40 CFR 420.63		0.18	40 CFR 122.44(I)
Zinc	2.4	5.1	35 IAC 304.124 40 CFR 420.63	1	2	35 IAC 304.124
Total Residual Chlorine					0.05	40 CFR 125.3
Polychlorinated Biphenyls (PCBs)				Monitor Only		35 IAC 309.146

PARAMETER	LOAD LIMITS lbs/day DAF (DMF)		REGULATION	CONCENTRATION LIMITS mg/L		REGULATION
	30 DAY AVERAGE	DAILY MAXIMUM		30 DAY AVERAGE	DAILY MAXIMUM	
<u>Outfall: D04</u>						
Flow (MGD)						35 IAC 309.146
pH				Monitor Only		35 IAC 309.146
<u>Outfall: H01</u>						
Flow (MGD)						
pH				Monitor Only		35 IAC 309.146
Iron (Total)				Monitor Only		35 IAC 309.146
Lead				Monitor Only		35 IAC 309.146
Zinc				Monitor Only		35 IAC 309.146
Arsenic				Monitor Only		35 IAC 309.146
Chromium				Monitor Only		35 IAC 309.146
Copper				Monitor Only		35 IAC 309.146
Nickel				Monitor Only		35 IAC 309.146

## Load Limit Calculations:

- A. Load limit calculations for the following pollutant parameters were based on an average flow of 727,040 using the formula of average or maximum flow (MGD) X concentration limit (mg/l) X 8.34 = the average or maximum load limit (lbs/day): Iron (Total), Zinc, Lead and Total Suspended Solids.
- B. Production based load limits were calculated by multiplying the average production by the effluent limit contained in 40 CFR 420.

Production figures utilized in these calculations for the following subcategories are as follows:

<u>Subcategory</u>	<u>Production Rate</u>
Subpart F – Continuous Casting	2,500 tons/day
Subpart G – Hot Forming	1,440 tons/day

Oil and Grease, Lead, Zinc and Total Suspended Solids were limited using Federal production based load limits.

The following sample calculation shows the methodology utilized to determine production based load limitations:

## Iron:

$$0.727 \text{ MGD} \times 2 \text{ mg/L} \times 8.34 = 12 \text{ lb/day (30 day avg.)}$$

## Zinc:

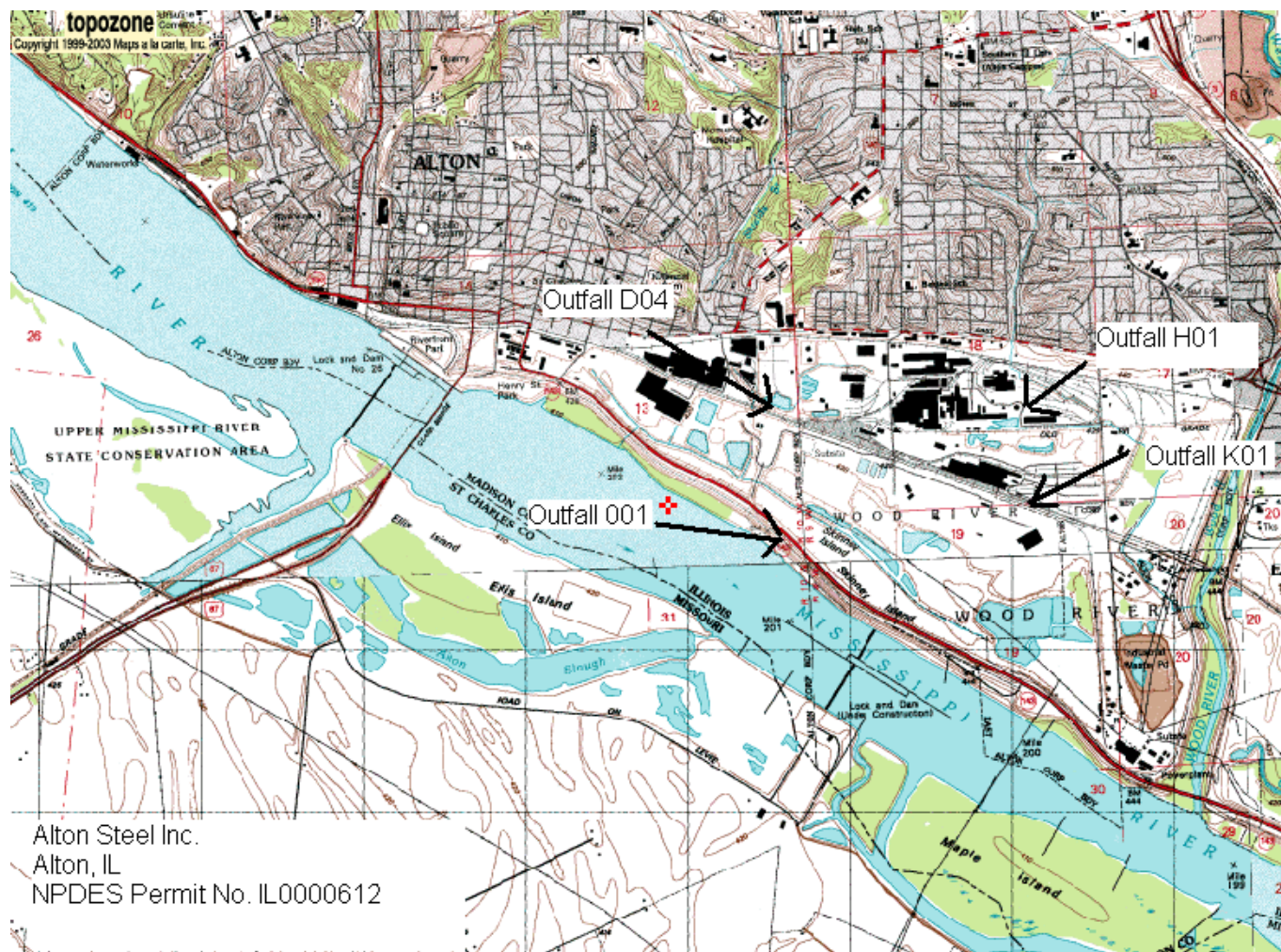
In Melt Shop,  $0.000047 \text{ lb/1000 lb} \times 2500 \text{ tons/day} \times 2 \text{ (1000 lb/ton} = 0.23 \text{ lb/day --> Federal Limit is lower than State Limit in 14" Mill, } 0.0619 \text{ MGD} \times 1 \text{ mg/L} \times 8.34 = 0.52 \text{ lb/day --> State Limit is lower than Federal Limit}$   
 For Groundwater Seepage,  $0.200 \text{ MGD} \times 1 \text{ mg/L} \times 8.34 = 1.67 \text{ lb/day}$   
 $0.23 + 0.52 + 1.67 = 2.4 \text{ lb/day (d0 day avg.) for Zinc}$

Oil and Grease, Total Suspended Solids, Lead, and Zinc federal and effluent standards are calculated individually for each stream within outfall 001 and added up to get the mass limit. There are no federal limits for iron in 40 CFR 420 Subparts F or G.

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:

Special Conditions will require monthly and quarterly DMR submission, supervision by a Certified Class K Operator, and explain the treated wastewater and stormwater load limit credits and limitations in this permit. Special Conditions will also outline temperature and total residual chlorine requirements, explain PCB testing, and define BAT/BCT and SWPPP requirements.



### Public Notice of Draft Permit

Public Notice Number MEL:13012203.bah is hereby given by Illinois EPA, Division of Water Pollution Control, Permit Section, 1021 North Grand Avenue East, Post Office Box 19276, Springfield, Illinois 62794-9276 (herein Agency) that a draft National Pollutant Discharge Elimination System (NPDES) Permit Number IL0000612 has been prepared under 40 CFR 124.6(d) for Alton Steel Inc., 5 Cut Street, Alton, Illinois 62002 for discharge into Mississippi River from the Alton Steel Inc., 5 Cut Street, Alton, Illinois 62002, (Madison County). The applicant is engaged in the production of steel from scrap using an electric arc furnace (SIC 3312). Waste water is generated from melt shop cooling water blowdown (contact and non-contact, spray chamber cooling, office, groundwater seepage, and stormwater runoff). Plant operation results in an average discharge of 0.727 MGD of contact and non-contact cooling water blowdown, office, stormwater runoff, and groundwater seepage from outfall 001, and an intermittent discharge of stormwater from outfalls H01 and D04.

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

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

Any interested person may submit written request for a public hearing on the draft permit to the Agency at the above address. The NPDES Permit and joint public notice must appear on each comment page. All comments received by the Agency not later than 30 days from the date of this publication shall be considered in making the final decision regarding permit issuance.

If written comments and/or requests indicate a significant degree of public interest in the draft permit, the permitting authority may, at its discretion, hold a public hearing. Public notice will be given 30 days before any public hearing.

NPDES Permit No. IL0000612

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:

Alton Steel Inc.  
5 Cut Street  
Alton, Illinois 62002

Facility Name and Address:

Alton Steel Inc.  
5 Cut Street  
Alton, Illinois 62002  
(Madison County)

Discharge Number and Name:	Receiving Waters:
001 - Melt Shop DEC and EAF cooling Tower Blowdown (Non-contact), Melt Shop Con-Cast Cooling Tower Blowdown (Contact), Melt Shop Water from Spray Chamber at Caster (Contact), 14" Mill Cooling Tower and Rolling Mill Water (Contact), Office and Air Conditioner Water, Stormwater Runoff and Groundwater Seepage	Mississippi River
D04 - Stormwater Runoff from Northwest Property	Unnamed Tributary to Mississippi River
H01 - Stormwater Runoff from Scrap Yard	Unnamed Tributary to Mississippi 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: MEL:13012203.bah

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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:

	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/L			
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM	SAMPLE FREQUENCY	SAMPLE TYPE
Outfall(s): 001*** - (Total Discharge = 0.727 MGD) <div>1. Melt Shop DEC and EAF Cooling Tower Blowdown (Discharge = 0.130 MGD)</div> <div>2. Melt Shop Con-Cast Cooling Tower Blowdown (Discharge = 0.130 MGD)</div> <div>3. Melt Shop Water from Spray Chamber at Caster (Discharge = 0.136 MGD)</div> <div>4. 14” Mill Cooling Tower and Rolling Mill Water (Discharge = 0.062 MGD)</div> <div>5. Office and Air Conditioner Water Discharge (Discharge = 0.069 MGD)</div> <div>6. Groundwater Seepage (Discharge = 0.200 MGD)</div> <div>7. Stormwater Runoff (Intermittent Discharge)</div>						
Flow (MGD)	See Special Condition 1				Measure When Monitoring	Meter Reading
pH	See Special Condition 2				Weekly	Grab
Temperature	See Special Condition 3				Weekly	Single-Reading
Oil and Grease	66	132	15	30	2/Month	Grab
Total Suspended Solids	91	182	15	30	2/Month	Grab
Iron (Total)	12	24	2	4	2/Month	Grab
Lead	0.55	0.86	*	0.18	1/Month	Grab
Zinc	2.4	5.1	1	2	1/Month	Grab
Total Residual Chlorine**				0.05	1/Month	Grab
Polychlorinated Biphenyls (PCBs)	See Special Condition 14					Grab
<div>*Record only.</div> <div>**See Special Condition 10 for testing procedures.</div> <div>***See Special Condition 4 for BAT/BCT Stormwater guidelines and Special Condition 11 for additional metals testing.</div> <div>****See Special Condition 13 for stormwater credits for load limits.</div>						
Outfall: D04* - Northwest Property Stormwater (intermittent Discharge)						
Flow (MGD)	See Special Condition 1				Measure When Monitoring	Estimate
pH	Monitor Only				2/Year	Grab
*See also Special Conditions 9, 11, 15, and 17.						

Note: The results of semi-annual sampling analyses shall be submitted along with the April and October monthly DMR's.

	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/L			
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM	SAMPLE FREQUENCY	SAMPLE TYPE
<u>Outfall: H01* -- Stormwater Runoff from Scrapyard (Intermittent Discharge)</u>						
Flow (MGD)	See Special Condition 1				Measure When Monitoring	Estimate
pH	Monitor Only as a monthly minimum and maximum				1/Quarter	Grab
Iron (Total)			Monitor Only		1/Quarter	Grab
Lead			Monitor Only		1/Quarter	Grab
Zinc			Monitor Only		1/Quarter	Grab
Arsenic			Monitor Only		2/Year	Grab
Chromium			Monitor Only		2/Year	Grab
Copper			Monitor Only		2/Year	Grab
Nickel			Monitor Only		2/Year	Grab

\*See also Special Conditions 9, 11, 15, and 17.

Note: The results of semi-annual sampling analyses shall be submitted along with the April and October monthly DMRs. The results of quarterly sampling analyses shall be submitted along with the January, April, July, and October monthly DMRs.



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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 monthly Discharge Monitoring Report.

SPECIAL CONDITION 2. The pH shall be in the range 6.0 to 9.0. The pH 9 maximum may be exceeded if the elevated pH level is caused by the addition of alkali in the wastewater treatment process to cause precipitation of barium, cadmium, chromium, copper, lead, manganese, zinc, or other materials requiring such elevated pH for treatment in which case the upper limit shall be 10. The monthly minimum and monthly maximum values shall be reported on the DMR form.

SPECIAL CONDITION 3. This facility meets the allowed mixing criteria for thermal discharges pursuant to 35 IAC 302.102. No reasonable potential exists for the discharge to exceed thermal water quality standards. This determination is based a maximum flow of 1.4 MGD and a maximum temperature of 88.3° F. The permittee shall monitor the flow and temperature of the discharge prior to entry into the receiving water body. Monitoring results shall be reported on the monthly Discharge Monitoring Report. This permit may be modified to include formal temperature limitations should the results of the monitoring show that there is reasonable potential to exceed a thermal water quality standard. Modification of this permit shall follow public notice and opportunity for comment.

There shall be no abnormal temperature changes that may adversely affect aquatic life unless caused by natural conditions. The normal daily and seasonal temperature fluctuations which existed before the addition of heat due to other than natural causes shall be maintained.

SPECIAL CONDITION 4. For outfall 001 only, the Agency has determined that the effluent limitations in this permit constitute BAT/BCT for storm water which is treated in the existing treatment facilities for purposes of this permit reissuance, and no pollution prevention plan will be required for such storm water. In addition to the chemical specific monitoring required elsewhere in this permit, the permittee shall conduct an annual inspection of the facility site to identify areas contributing to a storm water discharge associated with industrial activity, and determine whether any facility modifications have occurred which result in previously-treated storm water discharges no longer receiving treatment. If any such discharges are identified the permittee shall request a modification of this permit within 30 days after the inspection. Records of the annual inspection shall be retained by the permittee for the term of this permit and be made available to the Agency on request.

SPECIAL CONDITION 5. 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 6. The Permittee shall record monitoring results on Discharge Monitoring Report (DMR) Forms using one such form for each outfall each month.

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

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

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

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

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

Attention: Compliance Assurance Section, Mail Code # 19

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

SPECIAL CONDITION 8. The use or operation of this facility shall be by or under the supervision of a Certified Class K operator.

SPECIAL CONDITION 9. For the purpose of this permit, the discharge from outfalls H01 and D04 is limited to stormwater, free from process and other wastewater discharges.

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Special Conditions

**SPECIAL CONDITION 10.** All samples for Total Residual Chlorine shall be analyzed by an applicable method contained in 40 CFR 136, equivalent in accuracy to low-level amperometric titration. Any analytical variability of the method used shall be considered when determining the accuracy and precision of the results obtained.

**SPECIAL CONDITION 11.** The Permittee shall monitor the effluent in outfall 001 and report concentrations (in mg/L) of the following listed parameters on a semi-annual basis. The sample shall be grab and the results shall be submitted on Discharge Monitoring Report Forms to IEPA unless otherwise specified by the IEPA. The results of semi-annual sampling analyses shall be submitted along with the April and October monthly DMR's. The parameters to be sampled and the minimum detection limits to be attained are as follows:

<u>STORET CODE</u>	<u>PARAMETER</u>	<u>Minimum detection limit</u>
01002	Arsenic	0.05 mg/L
01027	Cadmium	0.003 mg/L
01032	Chromium (hexavalent)	0.01 mg/L
01034	Chromium (total)	0.05 mg/L
01042	Copper	0.005 mg/L
01046	Iron (Dissolved)	0.5 mg/L
01055	Manganese	0.5 mg/L
01067	Nickel	0.005 mg/L
00556	Oil (hexane soluble or equivalent)	1.0 mg/L
71900	Mercury	0.2 ug/L

Unless otherwise indicated, concentrations refer to the total amount of the constituent present in all phases, whether solid, suspended or dissolved, elemental or combined, including all oxidation states.

All samples for mercury must be analyzed by EPA Method 1631E using the digestion procedure described in Section 11.1.1.2 of 1631E, which dictates that samples must be heated at 50°C for 6 hours in a bromine chloride (BrCl) solution in closed vessels.

In addition, the permittee shall monitor any new toxic substances as defined by the Clean Water Act (CWA) following notification by the Illinois Environmental Protection Agency.

The analyses for the above parameters shall meet the detection limits as established for accepted test procedures listed in 40 CFR 136.

**SPECIAL CONDITION 12.** For the purpose of this permit, the discharge from outfall 001 is limited to melt shop cooling (contact and non-contact), 14" and rolling mill cooling, office, air conditioner water, stormwater runoff, and groundwater seepage, free from other wastewater discharges. In the event that the permittee shall require the use of or change in water treatment additives, the permittee must request a change in this permit in accordance with the Standard Conditions -- Attachment H.

SPECIAL CONDITION 13.Storm Water Credit:

An additional mass allowance may be calculated for Outfall Load Limitations of this permit, for the following parameters, based on 100% of the storm water flow as defined below.

<u>Parameter</u>	<u>Pounds per 1000 gallons of storm water flow</u>	
	<u>Average</u>	<u>Maximum</u>
Oil and Grease	0.113	0.225
Total Suspended Solids	0.113	0.225
Iron (Total)	0.0150	0.0300
Lead	0.00135	0.00135
Zinc	0.0075	0.0150

For example, if, after daily flow readings and other data show that an average of 50,000 gallons and a maximum of 150,000 gallons of stormwater discharged through outfall 001, then for Oil and Grease, the follow calculations shall take place:

Extra 30-Day Average Loading = 50 (gallons of stormwater, in 1000s) X 0.113 (listed in table above) = 5.7 lb/day  
 Extra Daily Maximum Loading = 150 X 0.225 = 33.8 lb/day

These numbers are to be added to the load limits already listed in this permit. To continue the example, the new 30-Day Average

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Special Conditions

Loading for oil and grease would be  $66 + 5.7 = 71.7$  lb/day while the new Daily Maximum Loading would be  $132 + 33.8 = 165.8$  lb/day. The other extra parameter loadings would be calculated in the same way. This would be appropriate for only the month it was calculated for and would be recalculated in the next month.

Dry Weather Flow - The average flow from outfall 001 for the last three consecutive zero-precipitation days. Previously collected storm water shall not be included.

Storm Water Flows - The storm water runoff which is treated in the waste water treatment facility shall be defined as that portion of the flow greater than the dry weather flow.

The quantity of pollutants discharged shall not exceed the quantity determined by multiplying the flow of storm water as determined by the permittee times the concentrations listed in the above table.

The stormwater credit does not authorize the permittee to exceed the concentration limits contained in the Effluent Limitations and Monitoring for outfall 001.

In computing monthly average permit limits to include storm water credit, the pound credit calculated above shall be averaged along with the process pound limits over the 30 day period. Explanatory calculations and flow data shall be submitted together with the DMR form.

SPECIAL CONDITION 14. The permittee shall monitor for and report the concentration of PCBs on a one-time grab within the first month following the effective date of this permit. The results shall be reported in mg/L as a monthly average and daily maximum concentration, and submitted to the IEPA the following month to the Standards Unit at the following address:

Illinois Environmental Protection Agency  
Bureau of Water  
Standards Unit  
Attention: Bob Mosher  
1021 North Grand Avenue East  
Post Office Box 19276  
Springfield, Illinois 62794-9276

SPECIAL CONDITION 15. Outfalls H01 and D04 shall be monitored at the sample frequencies indicated in this permit. Monitoring results for the indicated pollutant parameters shall be reported as a monthly average and daily maximum on the DMR form.

For all parameters, grab samples shall be collected during the first 30 minutes (or as soon thereafter as practicable) of the discharge.

All samples shall be collected from the discharge resulting from a storm event that is (greater than 0.1 inch rainfall) a storm event at least 72 hours from the previously measurable (greater than 0.1 inch) storm event.

The permittee shall record flow measurements or estimates and the method of flow rate measurement or estimate for all outfalls, including outfall 001. This information shall be submitted as an attachment to the DMR form.

SPECIAL CONDITION 16. A zone of initial dilution (ZID) is recognized for Copper with dimensions of 7.3 feet across the width of the river from the end-of-pipe and 3.3 feet downstream from this point. Within the ZID, 4.5:1 dilution is afforded. A mixing zone is recognized with dimensions extending 7.3 feet across the width of the river and 3.3 feet downstream. Within the mixing zone 4.5:1 dilution is afforded.

SPECIAL CONDITION 17.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP) for Outfalls H01 and D04

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.

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Special Conditions

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

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

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

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

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:

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Special Conditions

- 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.

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- 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 evapotranspire runoff where precipitation falling on the roof is not exposed to contaminants, to minimize storm water runoff; capture storm water in devices that minimize the amount of storm water runoff and use this water as appropriate based on quality.
6. Sediment and Erosion Prevention - The plan shall identify areas which due to topography, activities, or other factors, have a high potential for significant soil erosion. The plan shall describe measures to limit erosion.
7. Employee Training - Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution control plan. Training should address topics such as spill response, good housekeeping and material management practices. The plan shall identify periodic dates for such training.
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.

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5. Representative Outfalls - If your facility has two or more outfalls that you believe discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and storm water management practices occurring within the drainage areas of the outfalls, you may conduct visual observations of the discharge at just one of the outfalls and report that the results also apply to the substantially identical outfall(s).
6. The visual observation documentation shall be made available to the Agency and general public upon written request.
- I. The permittee shall conduct an annual facility inspection to verify that all elements of the plan, including the site map, potential pollutant sources, and structural and non-structural controls to reduce pollutants in industrial storm water discharges are accurate. Observations that require a response and the appropriate response to the observation shall be retained as part of the plan. Records documenting significant observations made during the site inspection shall be submitted to the Agency in accordance with the reporting requirements of this permit.
- J. This plan should briefly describe the appropriate elements of other program requirements, including Spill Prevention Control and Countermeasures (SPCC) plans required under Section 311 of the CWA and the regulations promulgated there under, and Best Management Programs under 40 CFR 125.100.
- K. The plan is considered a report that shall be available to the public at any reasonable time upon request.
- L. The plan shall include the signature and title of the person responsible for preparation of the plan and include the date of initial preparation and each amendment thereto.
- M. Facilities which discharge storm water associated with industrial activity to municipal separate storm sewers may also be subject to additional requirement imposed by the operator of the municipal system

Construction Authorization

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

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- T. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.
- U. The permittee shall retain the annual inspection report on file at least 3 years. This period may be extended by request of the Illinois Environmental Protection Agency at any time.

Annual inspection reports shall be mailed to the following address:

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

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