

Application Type Renewal  
Facility Type Industrial  
Major / Minor Minor

**NPDES PERMIT FACT SHEET  
INDIVIDUAL INDUSTRIAL WASTE (IW)  
AND IW STORMWATER**

Application No. PA0209449  
APS ID 1042425  
Authorization ID 1360276

**Applicant and Facility Information**

Applicant Name	<u>Metaldyne Sintered Ridgway, LLC</u>	Facility Name	<u>AAM EPMS</u>
Applicant Address	<u>1 Airport Road</u> <u>Emporium, PA 15834-2001</u>	Facility Address	<u>1 Airport Road</u> <u>Emporium, PA 15834-2001</u>
Applicant Contact	<u>Rachel Krieg</u>	Facility Contact	<u>Rachel Krieg</u>
Applicant Phone	<u>(814) 486-3314 x9618</u>	Facility Phone	<u>(814) 486-3314 x9618</u>
Client ID	<u>291850</u>	Site ID	<u>521169</u>
SIC Code	<u>3399</u>	Municipality	<u>Emporium Borough</u>
SIC Description	<u>Manufacturing - Primary Metal Products, Nec</u>	County	<u>Cameron</u>
Date Application Received	<u>June 29, 2021</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>July 8, 2021</u>	If No, Reason	<u></u>
Purpose of Application	<u>Renewal and transfer of a NPDES Permit</u>		

**Summary of Review**

The subject facility produces powdered metal parts (sintering) in Emporium Borough, Cameron County. This authorization includes a transfer from GKN Sintered Metals Emporium, Inc. to Metaldyne Sintered Ridgway, LLC. The attached draft NPDES permit is not changed substantially from the draft submitted to GKN on February 18, 2021.

A map of the facility location and a map provided by the permittee of the discharge locations is attached.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Approve	Deny	Signatures	Date
X		<i>Keith C. Allison</i> Keith C. Allison / Project Manager	July 27, 2021
X		<i>Nicholas W. Hartranft</i> Nicholas W. Hartranft, P.E. / Environmental Engineer Manager	July 28, 2021

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>101</u>	Design Flow (MGD)	<u>0</u>
Latitude	<u>41° 30' 32.29"</u>	Longitude	<u>-78° 14' 37.49"</u>
Quad Name	<u>Emporium, PA</u>	Quad Code	<u>0620</u>
Wastewater Description: <u>Noncontact Cooling Water (NCCW)</u>			
Receiving Waters	<u>Driftwood Branch Sinnemahoning Creek (TSF, MF)</u>	Stream Code	<u>24963</u>
NHD Com ID	<u>61428226</u>	RMI	<u>20.6</u>
Drainage Area	<u>87.2 mi<sup>2</sup></u>	Yield (cfs/mi <sup>2</sup> )	<u>0.0303</u>
Q <sub>7-10</sub> Flow (cfs)	<u>2.64</u>	Q <sub>7-10</sub> Basis	<u>USGS StreamStats</u>
Elevation (ft)	<u>1022</u>	Slope (ft/ft)	<u>Undetermined</u>
Watershed No.	<u>8-A</u>	Chapter 93 Class.	<u>TSF, MF</u>
Existing Use	<u>HQ-TSF</u>	Existing Use Qualifier	<u>RBP - Antidegradation</u>
Exceptions to Use	<u>None</u>	Exceptions to Criteria	<u>None</u>
Assessment Status	<u>Attaining Use(s)</u>		
Nearest Downstream Public Water Supply Intake	<u>PA-American Water Company @ Milton, PA</u>		
PWS Waters	<u>West Branch Susquehanna River</u>	Distance from Outfall (mi)	<u>Approx. 135</u>

Changes Since Last Permit Issuance Because stream flows had not been updated for recent renewals, updated stream flows for Driftwood Branch Sinnemahoning Creek (HQ-TSF) receiving the 101 discharge have been determined using the USGS StreamStats web application. The other stream and drainage characteristics were determined for the previous review and remain adequate.

Other Comments: This discharge of NCCW only occurs in the event of an extended power failure. The discharge has not occurred in the past two permit terms.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>107</u>	Design Flow (MGD)	<u>0</u>
Latitude	<u>41° 30' 26.34"</u>	Longitude	<u>-78° 14' 48.91"</u>
Quad Name	<u>Emporium, PA</u>	Quad Code	<u>0620</u>
Wastewater Description: <u>Noncontact Cooling Water (NCCW)</u>			
Receiving Waters	<u>West Creek (HQ-CWF, MF)</u>	Stream Code	<u>25222</u>
NHD Com ID	<u>61428260</u>	RMI	<u>0.2700</u>
Drainage Area	<u>61.3 mi<sup>2</sup></u>	Yield (cfs/mi <sup>2</sup> )	<u>0.0277</u>
Q <sub>7-10</sub> Flow (cfs)	<u>1.7</u>	Q <sub>7-10</sub> Basis	<u>USGS StreamStats</u>
Elevation (ft)	<u>1025</u>	Slope (ft/ft)	<u>Undetermined</u>
Watershed No.	<u>8-A</u>	Chapter 93 Class.	<u>HQ-CWF, MF</u>
Existing Use	<u>N/A</u>	Existing Use Qualifier	<u>N/A</u>
Exceptions to Use	<u>None</u>	Exceptions to Criteria	<u>None</u>
Assessment Status	<u>Attaining Use(s)</u>		
Nearest Downstream Public Water Supply Intake	<u>PA-American Water Company @ Milton, PA</u>		
PWS Waters	<u>West Branch Susquehanna River</u>	Distance from Outfall (mi)	<u>Approx. 135</u>

Changes Since Last Permit Issuance: Because stream flows had not been updated for recent renewals, updated stream flows for West Creek (HQ-CWF) receiving the 107 discharge have been determined using the USGS StreamStats web application. The other stream and drainage characteristics were determined for the previous review and remain adequate.

Other Comments: This discharge of NCCW only occurs in the event of an extended power failure. The discharge has not occurred in the past two permit terms.

Stormwater Discharges from Industrial Activities
<p>Stormwater discharges from the facility are subject to the requirements of 40 CFR 122.26(b)(14). As a SIC Code 3399 facility, it would be subject to Appendix B of the PAG-03 General Permit for the Discharge of Stormwater from Industrial Activities and as such has been given the once per six months monitoring of Appendix B of the PAG-03 for these outfalls.</p> <p>All outfalls at the facility (001 – 008) receive stormwater runoff. Outfalls 002-008 discharge to West Creek (HQ-CWF) and Outfall 001 discharges to Driftwood Branch Sinnemahoning (HQ-TSF).</p> <p>The permittee has conducted the twice per year sampling over the past permit term and a review of the data has shown pollutant levels in expected ranges for stormwater runoff. The current version of the PAG03 has a shorter list of parameters than included in the existing permit and therefore, the current shorter list will be included in this permit.</p> <p>Included in Part C of the permit will be a benchmark value for TSS of 100 mg/L. If the permittee's sampling demonstrates exceedances of benchmark values for two consecutive monitoring periods, the permittee shall submit a corrective action plan within 90 days of the end of the monitoring period triggering the plan. Appropriate BMPs from the PAG03 have also been incorporated into the stormwater requirements in Part C of this NPDES Permit.</p>

**Compliance History**

**DMR Data for Outfalls 001-008 (from June 1, 2020 to May 31, 2021)**

Parameter	Outfall 001		Outfall 002		Outfall 003		Outfall 004		Outfall 005		Outfall 006		Outfall 007		Outfall 008	
	1 <sup>st</sup> half 2020	2 <sup>nd</sup> half 2020	1 <sup>st</sup> half 2020	2 <sup>nd</sup> half 2020	1 <sup>st</sup> half 2020	2 <sup>nd</sup> half 2020	1 <sup>st</sup> half 2020	2 <sup>nd</sup> half 2020	1 <sup>st</sup> half 2020	2 <sup>nd</sup> half 2020	1 <sup>st</sup> half 2020	2 <sup>nd</sup> half 2020	1 <sup>st</sup> half 2020	2 <sup>nd</sup> half 2020	1 <sup>st</sup> half 2020	2 <sup>nd</sup> half 2020
pH (S.U.)																
Daily Maximum	7.87	6.80	8.23	6.3	7.95	E	7.67	6.60	8.10	6.2	7.77	6.4	6.75	6.60	8.11	6.60
CBOD5 (mg/L)																
Daily Maximum	2.0	4.0	< 2.1	< 4.0	< 2.1	E	< 2.1	< 4.0	< 2.1	< 2.1	< 2.1	< 4.0	< 2.1	< 4.0	< 2.1	< 4.0
TSS (mg/L)																
Daily Maximum	< 2	4.0	< 2	3.0	< 2	E	< 2	< 2	< 2	2	< 2	< 2	7	14	62	5
Oil and Grease (mg/L)																
Daily Maximum	< 5	< 5	< 5	< 5	< 5	E	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Total Arsenic (mg/L)																
Daily Maximum	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	E	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Cadmium (mg/L)																
Daily Maximum	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	E	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002
Total Chromium (mg/L)																
Daily Maximum	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	E	< 0.005	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Copper (mg/L)																
Daily Maximum	< 0.005	0.016	< 0.005	< 0.005	< 0.005	E	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.022	< 0.005
Total Iron (mg/L)																
Daily Maximum	0.18	0.28	0.05	0.18	0.06	E	< 0.05	0.08	< 0.05	0.06	0.1	0.18	0.21	0.27	2.05	0.2
Total Lead (mg/L)																
Daily Maximum	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	E	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005

**Compliance History, Cont'd**

<b>Summary of Inspections:</b>	The facility has been inspected periodically over the past permit term. The most recent inspection on February 4, 2021 identified two violations at the time of inspection for a failure to obtain a semiannual stormwater sample at outfall 003 and for an unauthorized discharge of industrial wastewater.
<b>Other Comments:</b>	A query in WMS found no open violations in eFACTS for Metaldyne Sintered Ridgway, LLC.

Existing Effluent Limitations and Monitoring Requirements

Suboutfalls 101 & 107

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/discharge	Metered
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/discharge	Grab
TRC	XXX	XXX	XXX	Report	XXX	Report	1/discharge	Grab
Temperature (°F)	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/discharge	I-S
Oil and Grease	XXX	XXX	XXX	15	XXX	30	1/discharge	Grab

Outfalls 001 - 008

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
CBOD5	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
TSS	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Oil and Grease	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Arsenic	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Cadmium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Chromium	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Copper	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Iron	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Total Lead	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

**Development of Effluent Limitations**

<b>Outfall No.</b>	101 & 107	<b>Design Flow (MGD)</b>	0
	101 - 41° 30' 36"		101 - -78° 14' 38.00"
<b>Latitude</b>	107 - 41° 30' 26"	<b>Longitude</b>	107 - -78° 14' 49.00"
<b>Wastewater Description:</b>	Noncontact Cooling Water		

As mentioned previously these discharges of NCCW are only anticipated to occur in the event of an extended power failure.

**Technology-Based Limitations**

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Parameter	Limit (mg/l)	SBC	Federal Regulation	State Regulation
Oil and Grease	15	Monthly Average	---	95.2(2)
	30	IMAX	---	95.2(2)
pH	6.0 – 9.0 S.U.	Min – Max	---	95.2(1)

Comments: The above limits from 25 PA Code 95 are applicable and included in the existing permit and will remain.

**Water Quality-Based Limitations**

**Temperature**

Attached are thermal analyses for each of these discharges. Discharge temperatures if the discharges occur for an extended time would be around 55 degrees F. Initial flows from 101 are estimated to be around 450 gpm and from 107 would be 150 gpm and therefore these are the flows included in the analyses. However, ultimate flow rates, if the discharges are extended to six hours are expected to reduce to 50-60 gpm at 101 and 107 would cease to discharge. Consistent with the Department guidance document *Implementation Guidance for Temperature Criteria* (Doc. No. 391-2000-017) the model determines a maximum daily average discharge temperature at the max daily flows and therefore, these analyses are adequately conservative.

Temperature monitoring is applicable for these cooling water discharges and will remain.

**Chesapeake Bay/Nutrient Requirements**

The GKN Emporium Industrial Plant is an insignificant IW facility for Chesapeake Bay discharge permitting pursuant to the Phase II Watershed Implementation Plan (WIP). As a discharger of only cooling water the facility is not expected to contribute to the nutrient load of the watershed. Nutrient loadings should be well under the thresholds of 75 lbs/day and 25 lbs/day for Total Nitrogen and Total Phosphorus, respectively, in the WIP. Therefore, because the discharge is not expected to cause a net addition of nutrients to the watershed no cap loads or regular nutrient monitoring are necessary.

**Antidegradation**

These existing infrequent discharges are not expected to affect the special protection designations of the receiving streams and therefore, have received no additional requirements pursuant to the antidegradation requirements of 25 PA Code 93.4c.

**Toxics Management**

No further "Reasonable Potential Analysis" was performed for these infrequent discharges of Non-Contact Cooling Water to determine additional toxic parameters as candidates for limitations or monitoring.

**Best Professional Judgment (BPJ) Limitations**

Comments: No additional BPJ limitations are necessary at this time.

**Anti-Backsliding**

No proposed limitations have been made less stringent consistent with the antidegradation requirements of the Clean Water Act and 40 CFR 122.44(l).

**Proposed Effluent Limitations and Monitoring Requirements**

Outfalls 001-008 , (from Permit Effective Date through Permit Expiration Date )

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Daily Maximum	Instant. Maximum		
Total Suspended Solids	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Aluminum, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Copper, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Iron, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Lead, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab
Zinc, Total	XXX	XXX	XXX	XXX	Report	XXX	1/6 months	Grab

Compliance Sampling Location: Outfall 001-008

Other Comments: The specific parameters to be monitored have been modified consistent with current PAG03 requirements as mentioned above.

**Proposed Effluent Limitations and Monitoring Requirements**

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

**Outfall 101, Effective Period: Permit Effective Date through Permit Expiration Date.**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/discharge	Metered
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/discharge	Grab
TRC	XXX	XXX	XXX	Report	XXX	Report	1/discharge	Grab
Temperature (°F)	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/discharge	I-S
Oil and Grease	XXX	XXX	XXX	15	XXX	30	1/discharge	Grab

Compliance Sampling Location: Suboutfall 001

Other Comments: The above limitations are unchanged from the existing permit.

**Proposed Effluent Limitations and Monitoring Requirements**

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the "NPDES Permit Writer's Manual" (362-0400-001), SOPs and/or BPJ.

**Outfall 107, Effective Period: Permit Effective Date through Permit Expiration Date.**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/discharge	Metered
pH (S.U.)	XXX	XXX	6.0	XXX	XXX	9.0	1/discharge	Grab
TRC	XXX	XXX	XXX	Report	XXX	Report	1/discharge	Grab
Temperature (°F)	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/discharge	I-S
Oil and Grease	XXX	XXX	XXX	15	XXX	30	1/discharge	Grab

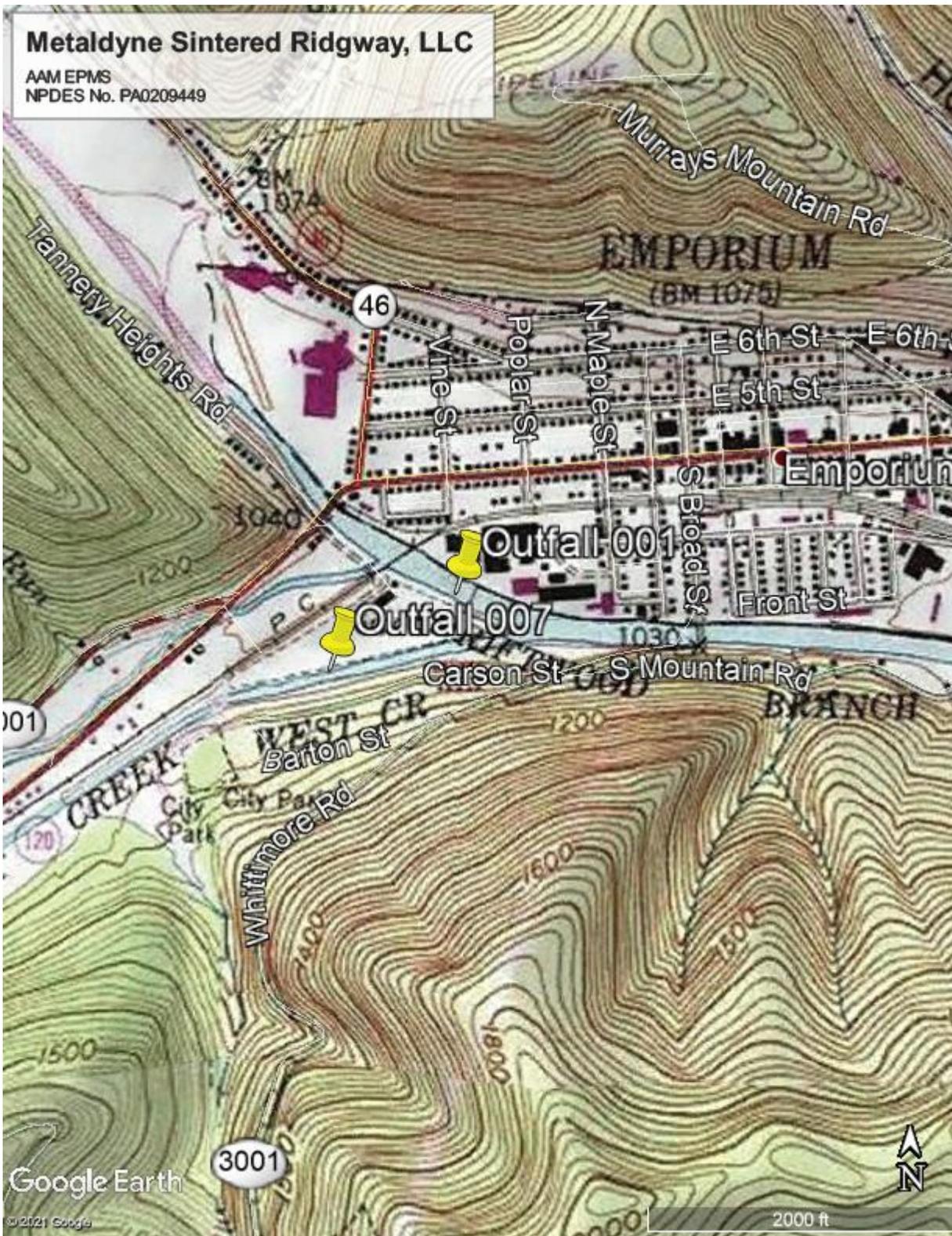
Compliance Sampling Location: Suboutfall 002

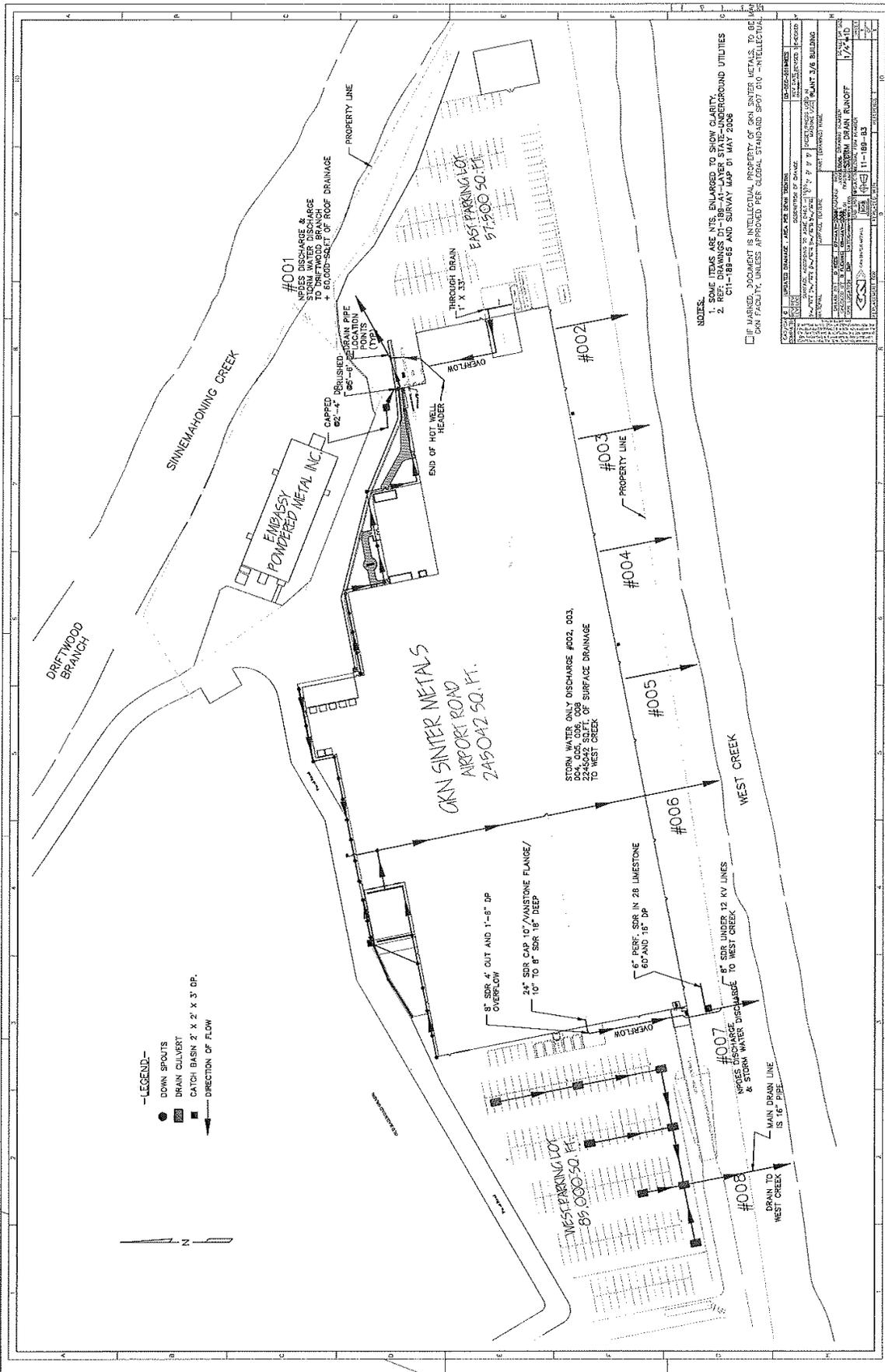
Other Comments: The above limitations are unchanged from the existing permit.

Tools and References Used to Develop Permit	
<input type="checkbox"/>	WQM for Windows Model (see Attachment [redacted])
<input type="checkbox"/>	Toxics Management Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	TRC Model Spreadsheet (see Attachment [redacted])
<input checked="" type="checkbox"/>	Temperature Model Spreadsheet (see Attachment B&C)
<input checked="" type="checkbox"/>	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
<input checked="" type="checkbox"/>	Technical Guidance for the Development and Specification of Effluent Limitations, 362-0400-001, 10/97.
<input type="checkbox"/>	Policy for Permitting Surface Water Diversions, 362-2000-003, 3/98.
<input checked="" type="checkbox"/>	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 362-2000-008, 11/96.
<input type="checkbox"/>	Technology-Based Control Requirements for Water Treatment Plant Wastes, 362-2183-003, 10/97.
<input type="checkbox"/>	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 362-2183-004, 12/97.
<input type="checkbox"/>	Pennsylvania CSO Policy, 385-2000-011, 9/08.
<input checked="" type="checkbox"/>	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
<input type="checkbox"/>	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 391-2000-002, 4/97.
<input checked="" type="checkbox"/>	Determining Water Quality-Based Effluent Limits, 391-2000-003, 12/97.
<input checked="" type="checkbox"/>	Implementation Guidance Design Conditions, 391-2000-006, 9/97.
<input type="checkbox"/>	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 391-2000-007, 6/2004.
<input type="checkbox"/>	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 391-2000-008, 10/1997.
<input type="checkbox"/>	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 391-2000-010, 3/99.
<input type="checkbox"/>	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 391-2000-011, 5/2004.
<input type="checkbox"/>	Implementation Guidance for Section 93.7 Ammonia Criteria, 391-2000-013, 11/97.
<input type="checkbox"/>	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 391-2000-014, 4/2008.
<input type="checkbox"/>	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 391-2000-015, 11/1994.
<input checked="" type="checkbox"/>	Implementation Guidance for Temperature Criteria, 391-2000-017, 4/09.
<input type="checkbox"/>	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 391-2000-018, 10/97.
<input type="checkbox"/>	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 391-2000-019, 10/97.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 391-2000-021, 3/99.
<input type="checkbox"/>	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 391-2000-022, 3/1999.
<input checked="" type="checkbox"/>	Design Stream Flows, 391-2000-023, 9/98.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 391-2000-024, 10/98.
<input type="checkbox"/>	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 391-3200-013, 6/97.
<input checked="" type="checkbox"/>	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
<input checked="" type="checkbox"/>	SOP: Establishing Effluent Limitations for Individual Industrial Permits, 9/10/13
<input type="checkbox"/>	Other: [redacted]

Attachment(s):

- A. Facility/Discharge Location Maps
- B. Thermal Analysis – Outfall 101 Discharge to Driftwood Branch
- C. Thermal Analysis – Outfall 107 Discharge to West Creek.





Facility: <b>GKN Sinter Metals</b>						
Permit Number: <b>PA0209449</b>						
Stream Name: <b>Driftwood Branch Sinnemahoning Creek</b>						
Analyst/Engineer: <b>K. Allison</b>						
Stream Q7-10 (cfs): <b>2.64</b>						
	<b>Facility Flows<sup>1</sup></b>				<b>Stream Flows</b>	
	Stream (Intake) (MGD)	External (Intake) (MGD)	Consumptive (Loss) (MGD)	Discharge (MGD)	Adj. Q7-10 Stream Flow (cfs)	Downstream <sup>2</sup> Stream Flow (cfs)
Jan 1-31	0	0.648	0	0.648	8.4	9.5
Feb 1-29	0	0.648	0	0.648	9.2	10.2
Mar 1-31	0	0.648	0	0.648	18.5	19.5
Apr 1-15	0	0.648	0	0.648	24.6	25.6
Apr 16-30	0	0.648	0	0.648	24.6	25.6
May 1-15	0	0.648	0	0.648	13.5	14.5
May 16-30	0	0.648	0	0.648	13.5	14.5
Jun 1-15	0	0.648	0	0.648	7.9	8.9
Jun 16-30	0	0.648	0	0.648	7.9	8.9
Jul 1-31	0	0.648	0	0.648	4.5	5.5
Aug 1-15	0	0.648	0	0.648	3.7	4.7
Aug 16-31	0	0.648	0	0.648	3.7	4.7
Sep 1-15	0	0.648	0	0.648	2.9	3.9
Sep 16-30	0	0.648	0	0.648	2.9	3.9
Oct 1-15	0	0.648	0	0.648	3.2	4.2
Oct 16-31	0	0.648	0	0.648	3.2	4.2
Nov 1-15	0	0.648	0	0.648	4.2	5.2
Nov 16-30	0	0.648	0	0.648	4.2	5.2
Dec 1-31	0	0.648	0	0.648	6.3	7.3
<sup>1</sup> Facility flows are not required (and will not affect the permit limits) if all intake flow is from the receiving stream (Case 1), consumptive losses are small, and permit limits will be expressed as Million BTUs/day.						
<sup>2</sup> Downstream Stream Flow includes the discharge flow.						
Please forward all comments to Tom Starosta at 717-787-4317, tstarosta@state.pa.us.						
Version 1.0 -- 08/01/2004      Reference: Implementation Guidance for Temperature Criteria, DEP-ID: 391-2000-017						
NOTE: The user can only edit fields that are blue.						
NOTE: MGD x 1.547 = cfs.						



Facility:	GKN Sinter Metals					
Permit Number:	PA0209449					
Stream Name:	West Creek					
Analyst/Engineer:	K. Allison					
Stream Q7-10 (cfs):	1.7					
	Facility Flows <sup>1</sup>				Stream Flows	
	Stream (Intake) (MGD)	External (Intake) (MGD)	Consumptive (Loss) (MGD)	Discharge (MGD)	Adj. Q7-10 Stream Flow (cfs)	Downstream <sup>2</sup> Stream Flow (cfs)
Jan 1-31	0	0.216	0	0.216	5.4	5.8
Feb 1-29	0	0.216	0	0.216	6.0	6.3
Mar 1-31	0	0.216	0	0.216	11.9	12.2
Apr 1-15	0	0.216	0	0.216	15.8	16.1
Apr 16-30	0	0.216	0	0.216	15.8	16.1
May 1-15	0	0.216	0	0.216	8.7	9.0
May 16-30	0	0.216	0	0.216	8.7	9.0
Jun 1-15	0	0.216	0	0.216	5.1	5.4
Jun 16-30	0	0.216	0	0.216	5.1	5.4
Jul 1-31	0	0.216	0	0.216	2.9	3.2
Aug 1-15	0	0.216	0	0.216	2.4	2.7
Aug 16-31	0	0.216	0	0.216	2.4	2.7
Sep 1-15	0	0.216	0	0.216	1.9	2.2
Sep 16-30	0	0.216	0	0.216	1.9	2.2
Oct 1-15	0	0.216	0	0.216	2.0	2.4
Oct 16-31	0	0.216	0	0.216	2.0	2.4
Nov 1-15	0	0.216	0	0.216	2.7	3.1
Nov 16-30	0	0.216	0	0.216	2.7	3.1
Dec 1-31	0	0.216	0	0.216	4.1	4.4

<sup>1</sup> Facility flows are not required (and will not affect the permit limits) if all intake flow is from the receiving stream (Case 1), consumptive losses are small, and permit limits will be expressed as Million BTUs/day.

<sup>2</sup> Downstream Stream Flow includes the discharge flow.

*Please forward all comments to Tom Starosta at 717-787-4317, tstarosta@state.pa.us.*

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