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# State Pollutant Discharge Elimination System (SPDES) DISCHARGE PERMIT

SIC Code: <b>3471</b>	NAICS Code:	334417	SPDES Number:	NY0003824
Discharge Class (CL):	03		DEC Number:	4-1250-00018/00156
Toxic Class (TX):	Т		Effective Date (EDP):	EDP
Major-Sub Drainage Basin:	06-01		Expiration Date (ExDP):	ExDP
Water Index Number:	SR (portion 7)	Item No.: 930-7	Madification Datas (EDDM)	
Compact Area:	SRBC		Modification Dates (EDPM):	-

This SPDES permit is issued in compliance with Title 8 of Article 17 of the Environmental Conservation Law of New York State and in compliance with the Clean Water Act, as amended, (33 U.S.C. '1251 et.seq.)

PERMITTEE NAME AND ADDRESS							
Name:	Amphenol Corporation	Attention:	n: Environmental Health and Safe				
Street:	358 Hall Avenue		Manage	Manager			
City:	Wallingford	State:	СТ	Zip Code:	06492		
Email:	mcady@amphenol-aao.com	Phone:	607-563	-5765			

is authorized to discharge from the facility described below:

FACILITY NAME, ADDRESS, AND PRIMARY OUTFALL															
Name:	Amph	mphenol Corporation - Aerospace Operations													
Address / Location:	40-60	0-60 Delaware Avenue							Cou	nty:	Dela	Delaware			
City:	Sidne	Sidney					State:	NY Zip C			Code: <b>13838</b>				
Facility Location:		Latitude:	4:	2 °	18	,	26	" N	& Longitude	e:	75	0	24	,	3 " W
Primary Outfall No.:	001	Latitude:	4:	2 °	18	,	57	" N	& Longitude	e:	75	0	24	,	18 " W
Wastewater Description:	Electr proces waste		Water River		nna	NAICS:	334417	Cla	ss: I	3	Star	ndard:	В		

and the additional outfalls listed in this permit, in accordance with: effluent limitations; monitoring and reporting requirements; other provisions and conditions set forth in this permit; and 6 NYCRR Part 750-1 and 750-2.

This permit and the authorization to discharge shall expire on midnight of the expiration date shown above and the permittee shall not discharge after the expiration date unless this permit has been renewed or extended pursuant to law. To be authorized to discharge beyond the expiration date, the permittee shall apply for permit renewal not less than 180 days prior to the expiration date shown above.

DISTRIBUTION:
CO BWP - Permit Coordinate
BWP – Permit Writer
CO BWC - SCIS
RWE
RPA
EPA Region II
Health District

**SRBC** 

Permit Administrator:			
Address:	625 Broadway Albany, NY 1223	33-1750	
Signature:		Date:	11

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## SUMMARY OF ADDITIONAL OUTFALLS

	_						_				
Outfall	Wastewa	ter Description	NAICS Code	Outfall I	Latitude	)	Outfall	Outfall Longitude			
01A	Cyanide	bearing baths and rinses	334417	NA			NA				
Receivi	ng Water:	Susquehanna via Outfall 001			Class:	s: NA					
Outfall	Wastewa	ter Description	NAICS Code	Outfall I	Latitude	;	Outfall	Longitude			
01B	Hexavale	ent chromium bearing baths	334417	NA			NA				
Receiving Water: Susquehanna via Outfall 001							Class:	NA			
Outfall	Wastewa	ter Description	NAICS Code	Outfall I	Latitude	)	Outfall	Longitude			
01C	Low pH k	oaths and rinses	334417	NA			NA				
Receiving Water: Outfall Susquehanna via Outfall Susqu			fall 001 – no m	onitorir	ng or sa	ampling at	Class:	NA			
Outfall	utfall Wastewater Description			Outfall I	Latitude	;	Outfall	Longitude			
002	2 Stormwater		334417	42	18	' 27 " N	75 °	24 '	5 " W		
Receivi	ng Water:	Tributary 147					Class: C				
Outfall	Wastewa	ter Description	NAICS Code	Outfall I	Latitude	)	Outfall Longitude				
005	Stormwa	ter	334417	42	° 18	' <b>25</b> " N	75 °	23 '	53 " W		
Receivi	ng Water:	Tributary 147					Class:	С	'		
Outfall	Wastewa	ter Description	NAICS Code	Outfall I	Latitude	)	Outfall	Outfall Longitude			
006	Stormwa	ter	334417	42	18	' 24 " N	75 °	23 '	54 " W		
Receivi	ng Water:	Tributary 147					Class:	С	'		
Outfall	Wastewa	ter Description	NAICS Code	Outfall I	Latitude	;	Outfall	Longitude			
007	Stormwa	ter	334417	42	18	' 22 " N	75 °	23 '	58 " W		
Receivi	ng Water:	Tributary 147					Class:	С	'		
Outfall	Wastewa	ter Description	NAICS Code	Outfall I	Latitude	)	Outfall	Longitude			
800	Stormwa	ter	334417	42	° 18	' 34 " N	75 °	23 '	54 " W		
Receivi	ng Water:	Tributary 147			-		Class:	С	1		

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## **DEFINITIONS**

TERM	DEFINITION
7-Day Geo Mean	The highest allowable geometric mean of daily discharges over a calendar week.
7-Day Average	The average of all daily discharges for each 7-days in the monitoring period. The sample measurement is the highest of the 7-day averages calculated for the monitoring period.
12-Month Rolling Average (12 MRA)	The current monthly value of a parameter, plus the sum of the monthly values over the previous 11 months for that parameter, divided by the number of months for which samples were collected in the 12-month period.
30-Day Geometric Mean	The highest allowable geometric mean of daily discharges over a calendar month, calculated as the antilog of: the sum of the log of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.
Action Level	Action level means a monitoring requirement characterized by a numerical value that, when exceeded, triggers additional permittee actions and department review to determine if numerical effluent limitations should be imposed.
Compliance Level / Minimum Level	A compliance level is an effluent limitation. A compliance level is given when the water quality evaluation specifies a Water Quality Based Effluent Limit (WQBEL) below the Minimum Level. The compliance level shall be set at the Minimum Level (ML) for the most sensitive analytical method as given in 40 CFR Part 136, or otherwise accepted by the Department.
Daily Discharge	The discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for the purposes of sampling. For pollutants expressed in units of mass, the 'daily discharge' is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the 'daily discharge' is calculated as the average measurement of the pollutant over the day.
Daily Maximum	The highest allowable Daily Discharge.
Daily Minimum	The lowest allowable Daily Discharge.
Effective Date of Permit (EDP or EDPM)	The date this permit is in effect.
Effluent Limitations	Effluent limitation means any restriction on quantities, quality, rates and concentrations of chemical, physical, biological, and other constituents of effluents that are discharged into waters of the state.
Expiration Date of Permit (ExDP)	The date this permit is no longer in effect.
Instantaneous Maximum	The maximum level that may not be exceeded at any instant in time.
Instantaneous Minimum	The minimum level that must be maintained at all instants in time.
Monthly Average	The highest allowable average of daily discharges over a calendar month, calculated as the sum of each of the daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.
Outfall	The terminus of a sewer system, or the point of emergence of any waterborne sewage, industrial waste or other wastes or the effluent therefrom, into the waters of the State.
Range	The minimum and maximum instantaneous measurements for the reporting period must remain between the two values shown.
Receiving Water	The classified waters of the state to which the listed outfall discharges.
Sample Frequency / Sample Type / Units	See NYSDEC's "DMR Manual for Completing the Discharge Monitoring Report for the SPDES" for information on sample frequency, type and units.

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# PERMIT LIMITS, LEVELS AND MONITORING: Outfall 01A & 01B

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
01A	Electroplating process water: cyanide bearing baths and rinses	Outfall 001	EDP	ExDP

	EFF	LUENT L	MONITORING REQUIREMENTS							
PARAMETER								Loca	ation	FN
	Туре	Limit	Units	Limit	Units	Sample Sample Frequency Type		Inf.	Eff.	
Total Cyanide	Monthly Average	0.65	mg/L			VA/a a leb c	04 hm Comm		V	4
	Daily Maximum	1.20	mg/L			Weekly	24-hr. Comp.		Χ	ı

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
01B	Electroplating process water: hexavalent chromium bearing baths and rinses	Outfall 001	EDP	ExDP

	EFF	LUENT L	IMITATIO	ON		MONITO	RING REQUIRE	EMEN	TS		
PARAMETER								Loca	ation	FN	
	Туре	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Inf.	Eff.		
Total Cadmium	Monthly Average	Monitor	mg/L			Markha	24 hr. Caman		X		
Total Cadmium	Daily Maximum	Monitor	mg/L			Weekly	24-hr. Comp.		^		
Hexavalent Chromium	Monthly Average	0.050	mg/L			)	04 hm 0		\ \ \		
	Daily Maximum	0.10	mg/L			Weekly	24-hr. Comp.		Х		
Total Chromium	Daily Maximum	0.50	mg/L			Weekly	24-hr. Comp.		Х		
Total Copper	Daily Maximum	Monitor	mg/L			Weekly	24-hr. Comp.		Х		
Total Overside	Monthly Average	Monitor	mg/L			)	24 hr. Caman		\ \ \	4	
Total Cyanide	Daily Maximum	Monitor	mg/L			Weekly	24-hr. Comp.		Х	1	
Total local	Monthly Average	2.0	mg/L				04 hm 0		\ \		
Total Iron	Daily Maximum	4.0	mg/L			Weekly	24-hr. Comp.		Х		
Tatalland	Monthly Average	0.20	mg/L			\\\   -  -	04 hm 0		\ \ \		
Total Lead	Daily Maximum	0.40	mg/L			Weekly	24-hr. Comp.		Х		
Tatal Managanas	Monthly Average	1.0	mg/L			Weekly	24-hr. Comp.		Х		
Total Manganese	Daily Maximum	2.0	mg/L			Weekly	24-hr. Comp.		Х		
Tatal Nijakal	Monthly Average	Monitor	mg/L			VA/ a a laba	04 hr. Caman				
Total Nickel	Daily Maximum	Monitor	mg/L			Weekly	24-hr. Comp.		Х		
T-4-1 Oile	Monthly Average	Monitor	mg/L			)A/ I-I-	04 5 0				
Total Silver	Daily Maximum	Monitor	mg/L			Weekly	24-hr. Comp.		Х		
Total Zinc	Daily Maximum	Monitor	mg/L			Weekly	24-hr. Comp.		Х		

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# PERMIT LIMITS, LEVELS AND MONITORING: Outfall 01C & 001

OUTFALL	OUTFALL DESCRIPTION				RECEI	VING W	ATER	EFFECTIVE	EXPIRIN		G
01C	Electroplating process water: low pH baths and rinses				Outfall 001			EDP	ExDP		
		EFF	LUENT L	IMITATI	NC		MONITO	RING REQUIF	REMEN	TS	
PARAME	TER						Comple	Location			FN
		Туре	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Inf.	Eff.	
NO MONITORING REQUIRED											

OUTFALL		DESCRIPTION			RECEIVI	NG WA	ATER	EFFECTIVE	EXI	PIRI	NG
001	Ele	ectroplating process wat	er		Susqueh	nanna F	River	EDP	E	xDP	
		EFFLU	JENT LIMI	TATION			MONITOR	ING REQUIRE	MEN <sup>-</sup>	ΓS	
PARAME <sup>*</sup>	TER	Туре	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Loca Inf.	ation Eff.	FN
		Monthly Average	Monitor	MGD			Continuous	Recorder		Х	
Flow		Daily Maximum	Monitor	MGD			Continuous	Recorder		Х	
		Daily Minimum	6.0	SU						.,	
pН		Daily Maximum	9.0	SU			2/week	Grab		Х	
		Monthly Average	Monitor	°F			2/week	Grab		Х	
Temperature		Daily Maximum	90	°F			2/week	Grab		Х	
Total Suspended	Solids	Monthly Average	31	mg/L	26	lbs/d	2/week	24-hr. Comp.		Х	
(TSS)		Daily Maximum	60	mg/L	55	lbs/d	2/week	24-hr. Comp.		Х	
Settleable Solids		Daily Maximum	0.1	mL/L			2/week	Grab		Х	
Ammonia (as N)		Monthly Average	Monitor	mg/L			2/week	24-hr. Comp.		Х	
Total Kjeldahl Nitr (TKN) (as N)	rogen	Monthly Average	Monitor	mg/L	Monitor	lbs/d	2/week	24-hr. Comp.		Х	
Nitrate (NO <sub>3</sub> ) (as	N)	Monthly Average	Monitor	mg/L	Monitor	lb/d	2/week	24-hr. Comp.		Х	
NI:4::4- (NIO ) ( N	1)	Monthly Average	Monitor	mg/L	Monitor	lb/d	2/week	24-hr. Comp.		Χ	
Nitrite (NO₂) (as N	1)	Daily Maximum	Monitor	mg/L			2/week	24-hr. Comp.		Х	
		Monthly Average	Monitor	mg/L	Monitor	lb/d	2/week	Calculated		Χ	3
Total Nitrogen (as	; N)	Monthly Total			Monitor	lb/mo	1/month	Calculated		Χ	4
		12 Month Rolling Total			90,000	lb/yr	1/month	Calculated		Х	5, 6
Total Phosphorus (as P)		Monthly Average	Monitor	mg/L	Monitor	lb/d	2/week	24-hr. Comp.		Х	
		Monthly Total			Monitor	lb/mo	1/month	Calculated		Х	7
		12 Month Rolling Total			761	lb/yr	1/month	Calculated		Х	8
T - 4 - 1 NA -		Daily Maximum	50	ng/L			Quarterly	Grab		Х	9
Total Mercury		12 MRA	20	ng/L			Quarterly	Calculated		Х	9,10

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EFFL	UENT LI	MITATI	ON		MONITO	RING REQUIR	EMEN	TS	
					Sample	Sample	Loca	tion	FN
Туре	Limit	Units	Limit	Units	Frequency	Туре	Inf.	Eff.	
Monthly Average	Monitor	mg/L	4.4	lb/d	2/week	24-hr. Comp.		Х	
Daily Maximum	Monitor	mg/L	8.8	lb/d	2/week	24-hr. Comp.		Х	
Monthly Average	0.26	mg/L	0.28	lb/d	2/week	24-hr. Comp.		Х	
Daily Maximum	0.28	mg/L	0.30	lb/d	2/week	24-hr. Comp.		Х	
Monthly Average	Monitor	mg/L	0.11	lb/d	2/week	24-hr. Comp.		Х	
Daily Maximum	0.81	mg/L	0.22	lb/d	2/week	24-hr. Comp.		Х	
Monthly Average	1.71	mg/L	1.9	lb/d	2/week	24-hr. Comp.		Х	
Daily Maximum	2.77	mg/L	3.0	lb/d	2/week	24-hr. Comp.		Х	
Monthly Average	Monitor	mg/L	2.2	lb/d	2/week	24-hr. Comp.		Х	
Daily Maximum	0.90	mg/L	0.97	lb/d	2/week	24-hr. Comp.		Х	
Daily Maximum	Monitor	mg/L	Monitor	lb/d	2/week	24-hr. Comp.		Х	1
Monthly Average	900	mg/L	0.60	lb/d	2/week	24-hr. Comp.		Х	1
Daily Maximum	Monitor	mg/L	1.2	lb/d	2/week	24-hr. Comp.		Х	ı
Monthly Average	0.43	mg/L	Monitor	lb/d	2/week	24-hr. Comp.		Х	
Daily Maximum	0.67	mg/L	Monitor	lb/d	2/week	24-hr. Comp.		Х	
Monthly Average	2.38	mg/L	2.6	lb/d	2/week	24-hr. Comp.		Х	
Daily Maximum	3.98	mg/L	4.3	lb/d	2/week	24-hr. Comp.		Х	
Monthly Average	0.24	mg/L	0.26	lb/d	2/week	24-hr. Comp.		Х	
Daily Maximum	0.43	mg/L	0.47	lb/d	2/week	24-hr. Comp.		Х	
Monthly Average	1.48	mg/L	1.6	lb/d	2/week	24-hr. Comp.		Х	
Daily Maximum	2.61	mg/L	2.8	lb/d	2/week	24-hr. Comp.		Х	
Monthly Average	Monitor	mg/L			2/week	Grab		Х	
Daily Maximum	15	▶ mg/L			2/week	Grab		Х	
Daily Maximum	2.13	mg/L			2/week	24-hr. Comp.		Х	1,2
Daily Maximum	Monitor	mg/L			2/week	Grab		Х	
Daily Maximum	Monitor	mg/L			2/week	24-hr. Comp.		Х	
Daily Maximum	Monitor	PCU			2/week	24-hr. Comp.		Х	
Daily Maximum	Monitor	mg/L			2/week	24-hr. Comp.		Х	
TY (WET) TESTING	Limit	Units	Action Level	Units	Sample Frequency	Sample Type	Inf.	Eff.	FN
See footnote	15	TUa			Quarterly	See footnote		Х	9,11
See footnote	15	TUa			Quarterly	See footnote		Х	9,11
See footnote	100	TUc			Quarterly	See footnote		Х	9,11
See footnote	100	TUc			Quarterly	See footnote		Х	9,11
	Monthly Average Daily Maximum Control Maximum Daily Maximum	Monthly Average Monitor Daily Maximum Monitor Monthly Average 0.26 Daily Maximum 0.28 Monthly Average Monitor Daily Maximum 0.81 Monthly Average 1.71 Daily Maximum 2.77 Monthly Average Monitor Daily Maximum 0.90 Daily Maximum Monitor Monthly Average 900 Daily Maximum Monitor Monthly Average 9.43 Daily Maximum 0.67 Monthly Average 2.38 Daily Maximum 3.98 Monthly Average 0.24 Daily Maximum 0.43 Monthly Average 1.48 Daily Maximum 2.61 Monthly Average Monitor Daily Maximum 15 Daily Maximum 15 Daily Maximum Monitor	Monthly Average Monitor mg/L Daily Maximum Monitor mg/L Monthly Average 0.26 mg/L Daily Maximum 0.28 mg/L Monthly Average Monitor mg/L Daily Maximum 0.81 mg/L Monthly Average 1.71 mg/L Daily Maximum 2.77 mg/L Monthly Average Monitor mg/L Daily Maximum 0.90 mg/L Daily Maximum Monitor mg/L Monthly Average 900 mg/L Daily Maximum Monitor mg/L Monthly Average 900 mg/L Daily Maximum Monitor mg/L Monthly Average 0.43 mg/L Daily Maximum 0.67 mg/L Monthly Average 2.38 mg/L Daily Maximum 3.98 mg/L Daily Maximum 3.98 mg/L Daily Maximum 0.43 mg/L Daily Maximum 0.43 mg/L Daily Maximum 0.43 mg/L Daily Maximum 2.61 mg/L Daily Maximum 2.61 mg/L Daily Maximum 15 mg/L Daily Maximum 15 mg/L Daily Maximum 2.13 mg/L Daily Maximum Monitor mg/L See footnote 15 TUa See footnote 15 TUa See footnote 15 TUa	Monthly Average Monitor mg/L 8.8  Monthly Average 0.26 mg/L 0.28  Daily Maximum 0.28 mg/L 0.30  Monthly Average Monitor mg/L 0.11  Daily Maximum 0.81 mg/L 0.22  Monthly Average 1.71 mg/L 1.9  Daily Maximum 2.77 mg/L 3.0  Monthly Average Monitor mg/L 0.97  Daily Maximum 0.90 mg/L 0.97  Daily Maximum Monitor mg/L 0.60  Daily Maximum Monitor mg/L 1.2  Monthly Average 900 mg/L 0.60  Daily Maximum Monitor mg/L 1.2  Monthly Average 0.43 mg/L Monitor  Monthly Average 2.38 mg/L 2.6  Daily Maximum 0.67 mg/L Monitor  Monthly Average 2.38 mg/L 2.6  Daily Maximum 0.43 mg/L 0.26  Daily Maximum 0.43 mg/L 0.26  Daily Maximum 0.43 mg/L 1.6  Daily Maximum 0.43 mg/L 1.6  Daily Maximum 15 mg/L  Daily Maximum 15 mg/L  Daily Maximum 15 mg/L  Daily Maximum Monitor mg/L  See footnote 15 TUa  See footnote 15 TUa  See footnote 15 TUa	Monthly Average         Monitor         mg/L         4.4         Ib/d           Daily Maximum         Monitor         mg/L         8.8         Ib/d           Monthly Average         0.26         mg/L         0.28         Ib/d           Daily Maximum         0.28         mg/L         0.30         Ib/d           Monthly Average         Monitor         mg/L         0.11         Ib/d           Daily Maximum         0.81         mg/L         0.22         Ib/d           Monthly Average         1.71         mg/L         1.9         Ib/d           Monthly Average         1.71         mg/L         1.9         Ib/d           Daily Maximum         0.90         mg/L         3.0         Ib/d           Monthly Average         Monitor         mg/L         2.2         Ib/d           Monthly Average         900         mg/L         0.97         Ib/d           Monthly Average         900         mg/L         0.60         Ib/d           Monthly Average         0.43         mg/L         Monitor         Ib/d           Monthly Average         0.43         mg/L         Monitor         Ib/d           Monthly Average         0.24         mg/L </td <td>Monthly Average         Monitor         mg/L         4.4         lb/d         2/week           Daily Maximum         Monitor         mg/L         8.8         lb/d         2/week           Monthly Average         0.26         mg/L         0.28         lb/d         2/week           Daily Maximum         0.28         mg/L         0.30         lb/d         2/week           Monthly Average         Monitor         mg/L         0.11         lb/d         2/week           Monthly Average         1.71         mg/L         1.9         lb/d         2/week           Monthly Average         Monitor         mg/L         1.9         lb/d         2/week           Monthly Average         Monitor         mg/L         1.9         lb/d         2/week           Monthly Average         Monitor         mg/L         2.2         lb/d         2/week           Monthly Average         900         mg/L         0.60         lb/d         2/week           Monthly Average         0.43         mg/L         Monitor         lb/d         2/week           Daily Maximum         0.67         mg/L         Monitor         lb/d         2/week           Daily Maximum         0.47</td> <td>Type         Limit         Units         Limit         Units         Frequency         Type           Monthly Average         Monitor         mg/L         4.4         Ib/d         2/week         24-hr. Comp.           Daily Maximum         Monitor         mg/L         0.28         Ib/d         2/week         24-hr. Comp.           Monthly Average         0.26         mg/L         0.30         Ib/d         2/week         24-hr. Comp.           Monthly Average         Monitor         mg/L         0.11         Ib/d         2/week         24-hr. Comp.           Monthly Average         1.71         mg/L         0.22         Ib/d         2/week         24-hr. Comp.           Monthly Average         1.71         mg/L         1.9         Ib/d         2/week         24-hr. Comp.           Daily Maximum         0.81         mg/L         1.9         Ib/d         2/week         24-hr. Comp.           Daily Maximum         0.90         mg/L         0.97         Ib/d         2/week         24-hr. Comp.           Daily Maximum         Monitor         mg/L         Monitor         Ib/d         2/week         24-hr. Comp.           Monthly Average         0.43         mg/L         Monitor</td> <td>  Type</td> <td>  Type</td>	Monthly Average         Monitor         mg/L         4.4         lb/d         2/week           Daily Maximum         Monitor         mg/L         8.8         lb/d         2/week           Monthly Average         0.26         mg/L         0.28         lb/d         2/week           Daily Maximum         0.28         mg/L         0.30         lb/d         2/week           Monthly Average         Monitor         mg/L         0.11         lb/d         2/week           Monthly Average         1.71         mg/L         1.9         lb/d         2/week           Monthly Average         Monitor         mg/L         1.9         lb/d         2/week           Monthly Average         Monitor         mg/L         1.9         lb/d         2/week           Monthly Average         Monitor         mg/L         2.2         lb/d         2/week           Monthly Average         900         mg/L         0.60         lb/d         2/week           Monthly Average         0.43         mg/L         Monitor         lb/d         2/week           Daily Maximum         0.67         mg/L         Monitor         lb/d         2/week           Daily Maximum         0.47	Type         Limit         Units         Limit         Units         Frequency         Type           Monthly Average         Monitor         mg/L         4.4         Ib/d         2/week         24-hr. Comp.           Daily Maximum         Monitor         mg/L         0.28         Ib/d         2/week         24-hr. Comp.           Monthly Average         0.26         mg/L         0.30         Ib/d         2/week         24-hr. Comp.           Monthly Average         Monitor         mg/L         0.11         Ib/d         2/week         24-hr. Comp.           Monthly Average         1.71         mg/L         0.22         Ib/d         2/week         24-hr. Comp.           Monthly Average         1.71         mg/L         1.9         Ib/d         2/week         24-hr. Comp.           Daily Maximum         0.81         mg/L         1.9         Ib/d         2/week         24-hr. Comp.           Daily Maximum         0.90         mg/L         0.97         Ib/d         2/week         24-hr. Comp.           Daily Maximum         Monitor         mg/L         Monitor         Ib/d         2/week         24-hr. Comp.           Monthly Average         0.43         mg/L         Monitor	Type	Type

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# PERMIT LIMITS, LEVELS AND MONITORING: Outfall 002

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
002	Stormwater	Tributary 147 to Susquehanna River	EDP	ExDP

	EFF	LUENT LI	MITATIC	ON		MONITOR	RING REQUIRE	MEN	TS	
PARAMETER								Loca	ation	FN
	Туре	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Inf.	Eff.	
Flow	Daily Maximum	Monitor	GPD			Monthly	Estimate		Χ	12
nl.i	Daily Minimum	6.5	SU			Monthly	Grab		X	12
рН	Daily Maximum	8.5	SU			Monthly	Grab		Χ	12
Temperature	Daily Maximum	Monitor	°F			Monthly	Grab		Χ	12
trans-1,2-Dichloroethylene	Daily Maximum	10	μg/L			Monthly	Grab		Χ	12
Trichloroethylene	Daily Maximum	10	μg/L			Monthly	Grab		Χ	12
Total Aluminum	Daily Maximum	Monitor	μg/L			Monthly	Grab		Х	12
Total Barium	Daily Maximum	Monitor	μg/L			Monthly	Grab		Х	12
Total Cadmium	Daily Maximum	Monitor	μg/L			Monthly	Grab		Х	12
Total Chromium	Daily Maximum	Monitor	μg/L			Monthly	Grab		Х	12
Total Nickel	Daily Maximum	Monitor	μg/L			Monthly	Grab		Х	12
Total Zinc	Daily Maximum	Monitor	μg/L			Monthly	Grab		Х	12
Hardness	Daily Maximum	Monitor	μg/L			Monthly	Grab		Х	12
WHOLE EFFLUENT TO TESTING		Limit	Units	Action Level	Units	Sample Frequency	Sample Type	Inf.	Eff.	FN
WET - Acute Invertebrate	See footnote	0.3	TUa			Monthly	See footnote		Х	11
WET - Acute Vertebrate	See footnote	0.3	TUa	7		Monthly	See footnote		Х	11
WET - Chronic Invertebrate	See footnote	1.0	TUc			Monthly	See footnote		Х	11
WET - Chronic Vertebrate	See footnote	1.0	TUc			Monthly	See footnote		Х	11

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## PERMIT LIMITS, LEVELS AND MONITORING: Outfalls 005, 006, 007, 008

OUTFALL	DESCRIPTION	RECEIVING WATER	EFFECTIVE	EXPIRING
005, 006,	Starmwater	Tributary 147 to	EDD	EvDD
007, 008	Stormwater	Susquehanna River	EDP	ExDP

	EFF	LUENT LII	MITATIO	ON		MONITOR	ING REQUIRE	MEN	TS	
PARAMETER								Location		FN
	Туре	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Inf.	Eff.	
Flow	Daily Maximum	Monitor	GPD			Semi-annual	Estimate		Х	12,13
	Daily Minimum	6.5	SU				Grab		\ \ \	12,13
рН	Daily Maximum	8.5	SU			Semi-annual			Х	12,13
Temperature	Daily Maximum	Monitor	°F			Semi-annual	Grab		Х	12,13
Oil & Grease	Daily Maximum	15	mg/L			Semi-annual	Grab		Х	1,12, 13

#### **FOOTNOTES:**

- 1. At least 8 individual manual grab samples must be collected over the course of 24 hours analyzed separately and the concentrations averaged. Alternatively, grab samples may be collected in the field and composited in the laboratory and analyzed as a single sample if the results are equivalent to the arithmetic averaging of individual grab samples. Where effluent flows do not vary more than 10 percent over the course of composite sample collection, composite samples may be composed of equal size grab samples taken at equal time intervals. Where effluent flows do vary more than 10 percent over the course of sample collection, composite samples must be flow-proportioned.
- 2. Upon approval of the Solvent Management Plan, the permittee may, in lieu of required monitoring for TTO, certify with each DMR that the facility is implementing the approved Solvent Management Plan and that no dumping of concentrated toxic organics has occurred during the reporting period. In lieu of monitoring for Total Toxic Organics, the permittee may make the following certification as a comment on the DMR: Based on my inquiry of the person or persons directly responsible for managing compliance with the permit limitation for total toxic organics (TTO), I certify that, to the best of my knowledge and belief, no dumping of concentrated toxic organics into the wastewaters has occurred since filing of the last discharge monitoring report. I further certify that this facility is implementing the toxic organic management plan submitted to the permitting authority. If certifying instead of sampling, enter NODI 9 on the DMR for the parameter.
- 3. Total Nitrogen (as N) = [Total Kjeldahl Nitrogen (TKN), as N] + [Nitrite (NO<sub>2</sub>), as N] + [Nitrate (NO<sub>3</sub>), as N].
- 4. Total Nitrogen (as N), monthly total (lb/mo) is calculated as the monthly average load (lb/d) multiplied by the number of days in the month.
- 5. Total Nitrogen (as N), 12-month rolling total (lb/yr) is calculated as the current month load added to the month loads from the previous eleven months.
- 6. This is a final effluent limitation. See Schedule of Compliance for interim effluent limitation.
- 7. Total Phosphorus (as P), month total (lb/mo) is calculated as the monthly average load (lb/d) multiplied by the number of days in the month.
- 8. Total Phosphorus (as P), 12-month rolling total (lb/yr) is calculated as the current month load added to the month loads from the previous eleven months.

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9. Quarterly samples shall be collected in calendar quarters (Q1 – January 1<sup>st</sup> to March 31<sup>st</sup>; Q2 – April 1<sup>st</sup> to June 30<sup>th</sup>; Q3 – July 1<sup>st</sup> to September 30<sup>th</sup>; Q4 – October 1<sup>st</sup> to December 31<sup>st</sup>).

10. The 12-month rolling average for mercury is defined as the sum of the current month's monthly average concentration added to the quarterly averages from the eleven previous months, divided by the number of months for which samples were collected in the 12-month period.

#### 11. Whole Effluent Toxicity (WET) Testing:

Testing Requirements — Chronic WET testing is required, but report both the acute and chronic results. Testing shall be performed in accordance with 40 CFR Part 136 and TOGS 1.3.2 unless prior written approval has been obtained from the Department. The test species shall be Ceriodaphnia dubia (water flea - invertebrate) and Pimephales promelas (fathead minnow - vertebrate). Receiving water collected upstream from the discharge should be used for dilution. All tests conducted should be static-renewal (two 24-hr composite samples with one renewal for Acute tests and three 24-hr composite samples with two renewals for Chronic tests). The appropriate dilution series should be used to generate a definitive test endpoint, otherwise an immediate rerun of the test may be required. WET testing shall be coordinated with the monitoring of chemical and physical parameters limited by this permit so that the resulting analyses are also representative of the sample used for WET testing. The ratio of critical receiving water flow to discharge flow (i.e., dilution ratio) is 50:1 for acute, and 100:1 for chronic for Outfall 001 and 1:1 for acute, and 1:1 for chronic for Outfall 002.

<u>Monitoring Period</u> - WET testing shall be performed quarterly (calendar quarters) at Outfall 001 and monthly at Outfall 002 for the duration of the permit.

Reporting - Toxicity Units shall be calculated and reported on the DMR as follows: TUa = (100)/(48-hr LC50) [note that Acute data is generated by both Acute and Chronic testing] and TUc = (100)/(7-day NOEC) or (100)/(7-day IC25) when Chronic testing has been performed or TUc = (TUa) x (10) when only Acute testing has been performed and is used to predict Chronic test results, where the 48-hr LC50, 7-day NOEC and/or IC25 are all expressed in % effluent. This must be done, including the Chronic prediction from the Acute data, for both species unless otherwise directed. For Chronic results, report the most sensitive endpoint (i.e., survival, growth and/or reproduction) corresponding to the lowest 7-day NOEC or IC25 and resulting highest TUc. For Acute results, report a TUa of 0.3 if there is no statistically significant mortality in 100% effluent as compared to the control. Report a TUa of 1.0 if there is statistically significant mortality in 100% effluent as compared to the control, but insufficient mortality to generate a 48-hr LC50. Also, in the absence of a 48-hr LC50, use 1.0 TUa for the Chronic prediction from the Acute data, and report a TUc of 10.0.

The complete test report including all bench sheets, statistical analyses, reference toxicity data, daily average flow at the time of sampling and other appropriate supporting documentation, shall be submitted within 60 days following the end of each test period with your WET DMR and to the <a href="WET@dec.ny.gov">WET@dec.ny.gov</a> email address. A summary page of the test results for the invertebrate and vertebrate species indicating TUa, 48-hr LC50 for Acute tests and/or TUc, NOEC, IC25, and most sensitive endpoints for Chronic tests, should also be included at the beginning of the test report.

<u>WET Testing Action Level Exceedances</u> - If an action level is exceeded then the Department may require the permittee to conduct additional WET testing including Acute and/or Chronic tests. Additionally, the permittee may be required to perform a Toxicity Identification/Reduction Evaluation (TI/RE) in accordance with Department guidance. Enforceable WET limits may also apply. The permittee shall be notified in writing by their Regional DEC office of additional requirements. The written notification shall include the reason(s) why such testing, TI/RE and/or limits are required.

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#### 12. Stormwater Sampling

All stormwater sampling shall be in accordance with the New York State Department of Environmental Conservation SPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity Permit Number GP-0-23-001, which states:

A minimum of one grab sample must be taken from the *stormwater discharge associated with industrial activity* resulting from a storm event with at least 0.1 inch of precipitation (defined as a "measurable" event), providing the interval from the preceding measurable storm is at least 72 hours. The 72-hour storm interval is waived if the preceding measurable storm did not result in a stormwater *discharge* (e.g., a storm event in excess of 0.1 inches may not result in a stormwater *discharge* at some facilities), or if the *owner or operator* is able to document that less than a 72 hour interval is representative for local storm events during the sampling period.

The grab sample must be taken during the first 30 minutes (or as soon thereafter as practical, but not to exceed one [1] hour) of the *discharge*. If the sampled *discharge* commingles with non-stormwater water, the *owner or operator* must attempt to sample the stormwater *discharge* before it mixes.

13. Semi-annual samples shall be collected in Period 1 (January 1<sup>st</sup> through June 30<sup>th</sup>) and Period 2 (July 1<sup>st</sup> through December 31<sup>st</sup>) during a calendar year.



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### SPECIAL CONDITIONS - SOLVENT MANAGEMENT PLAN

1. The permittee shall submit, for Department approval, an initial solvent management plan by EDP + 1 month that specifies the toxic organic compounds used; the method of disposal used instead of dumping, such as reclamation, contract hauling, or incineration; and procedures for ensuring that toxic organics do not routinely spill or leak into the wastewater.

2. The Solvent Management Plan shall be reviewed, annually, and shall be modified whenever (a) changes at the facility materially increase the potential for releases of pollutants; (b) actual releases indicate the plan is inadequate, or (c) a letter from the Department identifies inadequacies in the plan. The permittee shall certify in writing, as an attachment annually to the December Discharge Monitoring Report (DMR), that the review has been completed. All Solvent Management plan revisions must be maintained on site. Subsequent modifications to or renewal of this permit does not reset or revise these deadlines unless a new deadline is set explicitly by such permit modification or renewal.



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## STORMWATER POLLUTION PREVENTION REQUIREMENTS

Stormwater discharges at this facility cannot obtain coverage under the current Multi-Sector General Permit (MSGP) (GP-0-23-001); however, the permit includes select requirements consistent with the MSGP.

The permittee shall develop and maintain a Stormwater Pollution Prevention Plan (SWPPP). **The SWPPP shall be developed by EDP + 6 months and maintained onsite.** At a minimum, the SWPPP must contain:

- 1. Pollution prevention team
- 2. General site description
- 3. Potential pollutant sources
- 4. Spills and releases
- 5. General location map
- 6. Site map
- 7. Stormwater controls
- 8. Monitoring and sampling data
- 9. Permit documents and department correspondence
- 10. Inspection schedule and documentation
- 11. Corrective action documentation
- 12. Monitoring and reporting



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## BEST MANAGEMENT PRACTICES (BMPs) FOR INDUSTRIAL FACILITIES

Note that for some facilities, especially those with few employees or limited industrial activities, some of the below BMPs may not be applicable. It is acceptable in these cases to indicate "Not Applicable" for the portion(s) of the BMP Plan that do not apply to your facility, along with an explanation.

- 1. <u>General</u> The permittee shall develop, maintain, and implement a Best Management Practices (BMP) plan to prevent releases of significant amounts of pollutants to the waters of the State through plant site runoff; spillage and leaks; sludge or waste disposal; and stormwater discharges including, but not limited to, drainage from raw material storage. The BMP plan shall be documented in narrative form and shall include the 13 minimum BMPs and any necessary plot plans, drawings, or maps. Other documents already prepared for the facility such as a Safety Manual or a Spill Prevention, Control and Countermeasure (SPCC) plan may be used as part of the plan and may be incorporated by reference. A copy of the current BMP plan shall be submitted to the Department as required in item (2.) below and a copy must be maintained at the facility and shall be available to authorized Department representatives upon request.
- 2. <u>Compliance Deadlines</u> The initial BMP plan was received by the Department on 11/23/2009. The BMP plan <u>shall</u> <u>be reviewed annually</u> and shall be modified whenever (a) changes at the facility materially increase the potential for releases of pollutants; (b) actual releases indicate the plan is inadequate, or (c) a letter from the Department identifies inadequacies in the plan. The permittee shall certify in writing, <u>as an attachment to the December Discharge Monitoring Report (DMR)</u>, that the annual review has been completed. Subsequent modifications to or renewal of this permit does not reset or revise these deadlines unless a new deadline is set explicitly by such permit modification or renewal.
- 3. <u>Facility Review</u> The permittee shall review all facility components or systems (including but not limited to material storage areas; in-plant transfer, process, and material handling areas; loading and unloading operations; storm water, erosion, and sediment control measures; process emergency control systems; and sludge and waste disposal areas) where materials or pollutants are used, manufactured, stored or handled to evaluate the potential for the release of pollutants to the waters of the State. In performing such an evaluation, the permittee shall consider such factors as the probability of equipment failure or improper operation, cross-contamination of storm water by process materials, settlement of facility air emissions, the effects of natural phenomena such as freezing temperatures and precipitation, fires, and the facility's history of spills and leaks. The relative toxicity of the pollutant shall be considered in determining the significance of potential releases. The review shall address all substances present at the facility that are identified in the SPDES application Form NY-2C (available at <a href="https://www.dec.ny.gov/docs/water-pdf/ny2cfillable.pdf">https://www.dec.ny.gov/docs/water-pdf/ny2cfillable.pdf</a>) or that are required to be monitored for by the SPDES permit.
- 4. <u>13 Minimum BMPs:</u> Whenever the potential for a release of pollutants to State waters is determined to be present, the permittee shall identify BMPs that have been established to prevent or minimize such potential releases. Where BMPs are inadequate or absent, appropriate BMPs shall be established. In selecting appropriate BMPs, the permittee shall consider good industry practices and, where appropriate, structural measures such as secondary containment and erosion/sediment control devices and practices. USEPA guidance for development of stormwater elements of the BMP is available in *Developing Your Stormwater Pollution Prevention Plan A Guide for Industrial Operators*, February 2009, EPA 833-B-09-002. As a minimum, the plan shall include the following BMPs:

1. BMP Pollution Prevention Team

2. Reporting of BMP Incidents

3. Risk Identification & Assessment

4. Employee Training

5. Inspections and Records

6. Security

7. Preventive Maintenance

8. Good Housekeeping

9. Materials/Waste Handling, Storage, & Compatibility

10. Spill Prevention & Response

11. Erosion & Sediment Control

12. Management of Runoff

13. Street Sweeping

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## BMPs FOR INDUSTRIAL FACILITIES (continued)

Stormwater Pollution Prevention Plans (SWPPPs) Required for Discharges of Stormwater from Construction Activity to Surface Waters - A SWPPP shall be developed prior to commencing any construction activity that will result in soil disturbance of one or more acres of uncontaminated area¹. (Note: the disturbance threshold is 5000 SF in the New York City East of Hudson Watershed). The SWPPP shall conform to the current version of the SPDES General Permit for Stormwater Discharges from Construction Activity (CGP), including the New York Standards and Specifications for Erosion and Sediment Control and New York State Stormwater Management Design Manual. The permittee shall submit a copy of the SWPPP and any amendments thereto to the local governing body and any other authorized agency having jurisdiction or regulatory control over the construction activity at least 30 days prior to soil disturbance. The SWPPP shall be maintained on-site and submitted to the Department only upon request. When a SWPPP is required, a properly completed Notice of Intent (NOI) form shall be submitted (available at <a href="https://www.dec.ny.gov/chemical/43133.html">www.dec.ny.gov/chemical/43133.html</a>) prior to soil disturbance. Note that submission of the NOI is required for informational purposes; the permittee is not eligible for and will not obtain coverage under any SPDES general permit for stormwater discharges. SWPPPs must be developed for subsequent site disturbances in accordance with the above requirements. The permittee is responsible for ensuring that the provisions of each SWPPP are properly. implemented.

6. Required Sampling For "Hot Spot" Identification - Development of the BMP plan shall include sampling of waste stream segments for the purpose of pollutant "hot spot" identification. The economic achievability of effluent limits will not be considered until plant site "hot spot" sources have been identified, contained, removed or minimized through the imposition of site specific BMPs or application of internal facility treatment technology. For the purposes of this permit condition a "hot spot" is a segment of an industrial facility (including but not limited to soil, equipment, material storage areas, sewer lines etc.) which contributes elevated levels of problem pollutants to the wastewater and/or stormwater collection system of that facility. For the purposes of this definition, problem pollutants are substances for which treatment to meet a water quality or technology requirement may, considering the results of waste stream segment sampling, be deemed unreasonable. For the purposes of this definition, an elevated level is a concentration or mass loading of the pollutant in question which is sufficiently higher than the concentration of that same pollutant at the compliance monitoring location so as to allow for an economically justifiable removal and/or isolation of the segment and/or B.A.T. treatment of wastewaters emanating from the segment.



<sup>&</sup>lt;sup>1</sup> Uncontaminated area means soils which are free of contamination by any toxic or non-conventional pollutants identified in the tables of SPDES Application Form NY-2C. Disturbance of any size contaminated area(s) and the resulting discharge of contaminated stormwater is not authorized by this permit unless the discharge is under State or Federal oversight as part of a remedial program or after review by the Regional Water Engineer; nor is such discharge authorized by any SPDES general permit for stormwater discharges.

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## MERCURY MINIMIZATION PROGRAM (MMP) - Type III

1. <u>General</u> - The permittee must develop, implement, and maintain a mercury minimization program (MMP), containing the elements set forth below, to reduce mercury effluent levels with the goal of achieving the WQBEL of 0.7 ng/L.

- 2. <a href="MMP Elements">MMP Elements</a> The MMP must be a written document and must include any necessary drawings or maps of the facility and/or collection system. Other related documents already prepared for the facility may be used as part of the MMP and may be incorporated by reference. At a minimum, the MMP must include the following elements as described in detail below:
  - a. <u>Monitoring</u> Monitoring at outfalls, influent and other locations tributary to compliance points shall be performed using either USEPA Method 1631 or another sufficiently sensitive method, as approved under 40 CFR Part 136<sup>2</sup>. Monitoring of raw materials, equipment, treatment residuals, and other non-wastewater/non-stormwater substances may be performed using other methods as appropriate. Monitoring must be coordinated so that the results can be effectively compared between locations.

Minimum required monitoring is as follows:

- i. <u>Plant Influent and/or Effluent</u> The permittee must collect samples at the location(s) and frequency as specified in the SPDES permit limitations table.
- ii. <u>Key Locations and Potential Mercury Sources</u> The permittee must sample *key locations*, chosen to identify potential mercury sources, at least annually.
- iii. <u>Decreased Monitoring Requirements</u> Facilities with EEQ at or below 12 ng/L are eligible for the following:
  - 1) Reduced requirements, through a permittee-initiated permit modification
    - a) Conduct influent monitoring, sampling semi-annually, in lieu of monitoring within the collection system, such as at *key locations*; and
    - b) Conduct effluent compliance sampling semi-annually.
  - 2) If a facility with reduced requirements reports discharges above 12 ng/L for two of four consecutive effluent samples, the Department may undertake a Department-initiated modification to remove the allowance of reduced requirements.
  - Under the decreased permit requirements, the facility must continue to conduct an annual status report, as applicable in accordance with 2.c of this MMP, to determine if any waste streams have changed.
- iv. Additional monitoring must be completed as required elsewhere in this permit (e.g., locations tributary to compliance points).
- b. <u>Control Strategy</u> The control strategy must contain the following minimum elements:
  - i. Monitoring and Inventory/Inspections
    - 1) Monitoring shall be performed as described in 2.a above. As mercury sources are found, the permittee must track down and minimize these sources.
    - The permittee must inventory and/or inspect users of its system as necessary to support the MMP.
      - a) Potential mercury sources
        - 1. The permittee must maintain an inventory of potential mercury sources.
        - 2. The permittee must inspect potential mercury sources once every five years. Alternatively, the permittee may develop and implement an outreach program<sup>3</sup> which informs users of their responsibilities as potential mercury sources. The permittee must conduct the outreach program at least once every five years. The outreach program should be supported by a subset of site inspections.
        - 3. A file shall be maintained containing documentation demonstrating compliance with 2.b.i.2)a) above. This file shall be available for review by the Department representatives and copies shall be provided upon request.

<sup>&</sup>lt;sup>2</sup> Outfall monitoring must be conducted using the methods specified in Table 8 of DOW 1.3.10.

<sup>&</sup>lt;sup>3</sup> For example, the outreach program could include education about sources of mercury and what to do if a mercury source is found.

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## MERCURY MINIMIZATION PROGRAM (MMP) - Type III (Continued)

- ii. <u>Equipment and Materials</u> Equipment and materials (e.g., thermometers, thermostats) used by the permittee, which may contain mercury, must be evaluated by the permittee. As equipment and materials containing mercury are updated/replaced, the permittee must use mercury-free alternatives, if possible.
- iii. <u>Bulk Chemical Evaluation</u> For chemicals, used at a rate which exceeds 1,000 gallons/year or 10,000 pounds/year, the permittee must obtain a manufacturer's certificate of analysis, a chemical analysis performed by a certified laboratory, and/or a notarized affidavit which describes the substances' mercury concentration and the detection limit achieved. If possible, the permittee must only use bulk chemicals utilized in the wastewater treatment process which contain <10 ppb mercury.
- c. <u>Status Report</u> An annual status report must be developed and maintained on site, in accordance with the <u>Schedule of Additional Submittals</u>, summarizing:
  - i. All MMP monitoring results for the previous reporting period;
  - ii. A list of known and potential mercury sources
    - 1) If the permittee meets the criteria for MMP Type IV, the permittee must notify the Department for a permittee-initiated modification;
  - iii. All actions undertaken, pursuant to the control strategy, during the previous reporting period;
  - iv. Actions planned, pursuant to the control strategy, for the upcoming reporting period; and
  - v. Progress towards achieving a dissolved mercury concentration of 0.70 ng/L in the effluent (e.g., summarizing reductions in effluent concentrations as a result of the control strategy implementation and/or installation/modification of a treatment system).

The permittee must maintain a file with all MMP documentation. The file must be available for review by Department representatives and copies must be provided upon request in accordance with 6 NYCRR 750-2.1(i) and 750-2.5(c)(4).

- 3. MMP Modification The MMP must be modified whenever:
  - a. Changes at the facility increase the potential for mercury discharges;
  - b. Effluent discharges exceed the current permit limitation(s); or
  - c. A letter from the Department identifies inadequacies in the MMP.

The Department may use information in the status reports, as applicable in accordance with 2.c of this MMP, to determine if the permit limitations and MMP Type is appropriate for the facility.

#### **DEFINITIONS:**

Key location – a location within the collection/wastewater system (e.g. including but not limited to a specific manhole/access point, tributary sewer/wastewater connection, or user discharge point) identified by the permittee as a potential mercury source. The permittee may adjust key locations based upon sampling and/or best professional judgement.

Potential mercury source – a source identified by the permittee that may reasonably be expected to have total mercury contained in the discharge. Some potential mercury sources include switches, fluorescent lightbulbs, cleaners, degreasers, thermometers, batteries, hauled wastes, universities, hospitals, laboratories, landfills, Brownfield sites, or raw material storage.

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#### DISCHARGE NOTIFICATION REQUIREMENTS

- (a) The permittee shall install and maintain identification signs at all outfalls to surface waters listed in this permit, unless the Permittee has obtained a waiver in accordance with the Discharge Notification Act (DNA). Such signs shall be installed before initiation of any new discharge location.
- (b) Subsequent modifications to or renewal of this permit does not reset or revise the deadline set forth in (a) above, unless a new deadline is set explicitly by such permit modification or renewal.
- (c) The Discharge Notification Requirements described herein do not apply to outfalls from which the discharge is composed exclusively of storm water, or discharges to ground water.
- (d) The sign(s) shall be conspicuous, legible and in as close proximity to the point of discharge as is reasonably possible while ensuring the maximum visibility from the surface water and shore. The signs shall be installed in such a manner to pose minimal hazard to navigation, bathing or other water related activities. If the public has access to the water from the land in the vicinity of the outfall, an identical sign shall be posted to be visible from the direction approaching the surface water.

The signs shall have **minimum** dimensions of eighteen inches by twenty-four inches (18" x 24") and shall have white letters on a green background and contain the following information:

N.Y.S. PERMITTED DISCHARGE POINT
SPDES PERMIT No.: NY
OUTFALL No. :
For information about this permitted discharge contact:
Permittee Name:
Permittee Contact:
Permittee Phone: ()-###-###
OR:
NYSDEC Division of Water Regional Office Address:
NYSDEC Division of Water Regional Phone: ( ) - ### -####

- (e) Upon request, the permittee shall make available electronic or hard copies of the sampling data to the public. In accordance with the RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS page of your permit, each DMR shall be maintained (either electronically or as a hard copy) on record for a period of five years.
- (f) The permittee shall periodically inspect the outfall identification sign(s) in order to ensure they are maintained, are still visible, and contain information that is current and factually correct. Signs that are damaged or incorrect shall be replaced within 3 months of inspection.

#### SCHEDULE OF COMPLIANCE

a) The permittee shall comply with the following schedule:

Outfall(s)	Compliance Action	Compliance Date <sup>4</sup>
001	JOINT OUTFALL AGREEMENT (6 NYCRR 750-2.9(a)(4)) The permittee shall enact a joint outfall agreement with the Village of Sidney WPCP (NY0029271) outlining the operation and maintenance responsibilities of the shared Outfall 001 and submit a certification that the agreement has been enacted by EDP + 6 months.	EDP + 6 months
001	SOLVENT MANAGEMENT PLAN The permittee shall submit a solvent management plan in accordance with requirements laid out in the SPECIAL CONDITIONS – SOLVENT MANAGEMENT PLAN section of this permit.	EDP + 1 month
002	STORMWATER SYSTEM ASSESSMENT The permittee shall televise the stormwater system and conduct an elevation survey. A report detailing the results of the elevation survey and a complete stormwater map shall be submitted by EDP + 6 months. The report may include points of infiltration and a plan for separating the stormwater system from groundwater infiltration, if infiltration is identified.	EDP + 6 months
002	REPRESENTATIVE OUTFALL LOCATION The permittee shall determine a sampling location that is representative of the effluent free from ambient water backflow. By EDP + 8 months, the permittee shall submit a plan to relocate the sampling location or outfall pipe.  Upon completion of the outfall relocation, the permittee shall submit an updated monitoring locations map.	EDP + 8 months

Un	less not	ted of	therwise,	, the above	actions	are one-t	ime requ	irements.

		INTERIM EFFLUENT LIMIT					MONITORIN	NTS			
OUTFALL	PARAMETER								Loca	ation	Notes
		Туре	Limit	Units	Limit	Units	Sample Frequency	Sample Type	Inf.	Eff.	
001	Total Nitrogen	12-Month Rolling Total	134,000	lbs/yr			1/Month	Calculated		Χ	1, 2
	<ol> <li>Interim limit ex</li> <li>See permit foo</li> </ol>										

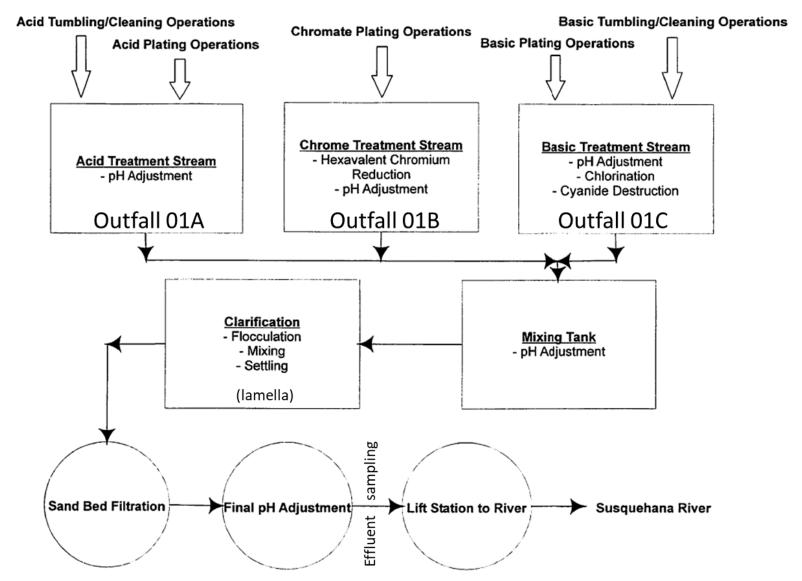
- b) The permittee shall submit a written notice of compliance or non-compliance with each of the above schedule dates no later than 14 days following each elapsed date, unless conditions require more immediate notice as prescribed in 6 NYCRR Part 750-1.2(a) and 750-2. All such compliance or non-compliance notification shall be sent to the locations listed under the section of this permit entitled RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS. Each notice of non-compliance shall include the following information:
  - 1. A short description of the non-compliance;
  - 2. A description of any actions taken or proposed by the permittee to comply with the elapsed schedule requirements without further delay and to limit environmental impact associated with the non-compliance;
  - 3. Any details which tend to explain or mitigate an instance of non-compliance; and
  - 4. An estimate of the date the permittee will comply with the elapsed schedule requirement and an assessment of the probability that the permittee will meet the next scheduled requirement on time.
- c) The permittee shall submit copies of any document required by the above schedule of compliance to the NYSDEC Regional Water Engineer and to the Bureau of Water Permits.

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<sup>&</sup>lt;sup>4</sup> 6 NYCRR 750-1.14 (a)

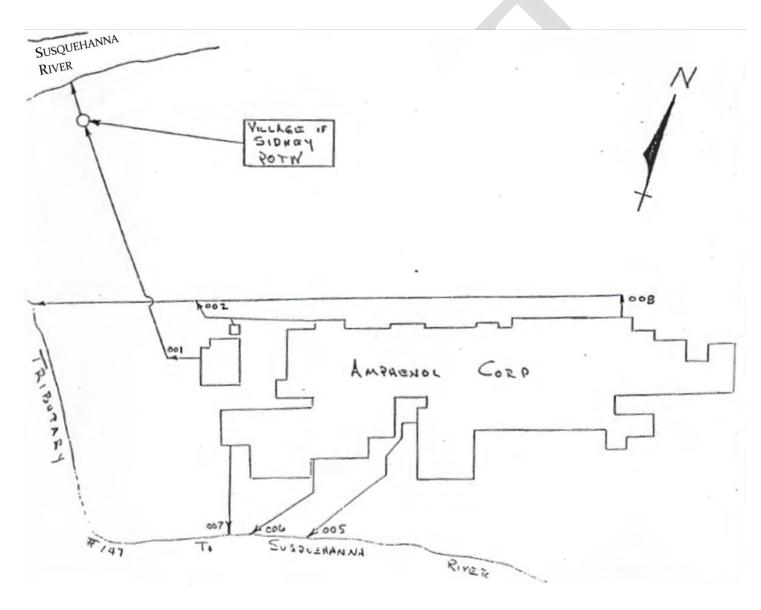
#### MONITORING LOCATIONS

The permittee shall take samples and measurements, to comply with the monitoring requirements specified in this permit, at the locations(s) specified below:



## MONITORING LOCATIONS (CONTINUED)

Sampling for Outfall 002 must occur at Manhole A or another representative location upstream in the collection system and free from surface water influence.



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## **GENERAL REQUIREMENTS**

A. The regulations in 6 NYCRR Part 750 are hereby incorporated by reference and the conditions are enforceable requirements under this permit. The permittee shall comply with all requirements set forth in this permit and with all the applicable requirements of 6 NYCRR Part 750 incorporated into this permit by reference, including but not limited to the regulations in paragraphs B through H as follows:

#### B. General Conditions

Duty to comply 1. 6 NYCRR 750-2.1(e) & 2.4 2. Duty to reapply 6 NYCRR 750-1.16(a) Need to halt or reduce activity not a defense 6 NYCRR 750-2.1(g) 4. Duty to mitigate 6 NYCRR 750-2.7(f) Permit actions 6 NYCRR 750-1.1(c), 1.18, 1.20 & 2.1(h) 5. 6. Property rights 6 NYCRR 750-2.2(b) 7. Duty to provide information 6 NYCRR 750-2.1(i) 8. Inspection and entry 6 NYCRR 750-2.1(a) & 2.3

#### C. Operation and Maintenance

 1. Proper Operation & Maintenance
 6 NYCRR 750-2.8

 2. Bypass
 6 NYCRR 750-1.2(a)(17), 2.8(b) & 2.7

 3. Upset
 6 NYCRR 750-1.2(a)(94) & 2.8(c)

#### D. Monitoring and Records

1. Monitoring and records
2. Signatory requirements
6 NYCRR 750-2.5(a)(2), 2.5(a)(6), 2.5(c)(1), 2.5(c)(2), & 2.5(d)
6 NYCRR 750-1.8 & 2.5(b)

#### E. Reporting Requirements

Reporting requirements for non-POTWs 6 NYCRR 750-2.5, 2.6, 2.7, &1.17 2. Anticipated noncompliance 6 NYCRR 750-2.7(a) 3. Transfers 6 NYCRR 750-1.17 Monitoring reports 6 NYCRR 750-2.5(e) 4. Compliance schedules 6 NYCRR 750-1.14(d) 5. 24-hour reporting 6. 6 NYCRR 750-2.7(c) & (d) Other noncompliance 7. 6 NYCRR 750-2.7(e) Other information 6 NYCRR 750-2.1(f) 8.

#### F. Sludge Management

The permittee shall comply with all applicable requirements of 6 NYCRR Part 360.

#### G. SPDES Permit Program Fee

The permittee shall pay to the Department an annual SPDES permit program fee within 30 days of the date of the first invoice, unless otherwise directed by the Department, and shall comply with all applicable requirements of ECL 72-0602 and 6 NYCRR Parts 480, 481 and 485. Note that if there is inconsistency between the fees specified in ECL 72-0602 and 6 NYCRR Part 485, the ECL 72-0602 fees govern.

#### H. Water Treatment Chemicals (WTCs)

New or increased use and discharge of a WTC requires prior Department review and authorization. At a minimum, the permittee must notify the Department in writing of its intent to change WTC use by submitting a completed *WTC Notification Form* for each proposed WTC. The Department will review that submittal and determine if a SPDES permit modification is necessary or whether WTC review and authorization may proceed outside of the formal permit administrative process. The majority of WTC authorizations do not require SPDES permit modification. In any event, use and discharge of a WTC shall not proceed without prior authorization from the Department. Examples of WTCs include biocides, coagulants, conditioners, corrosion inhibitors, defoamers, deposit control agents, flocculants, scale inhibitors, sequestrants, and settling aids.

- 1. WTC use shall not exceed the rate explicitly authorized by this permit or otherwise authorized by the Department.
- 2. The permittee shall maintain a logbook of all WTC use, noting for each WTC the date, time, exact location, and amount of each dosage, and, the name of the individual applying or measuring the chemical. The logbook must also document that adequate process controls are in place to ensure excessive levels of WTCs are not used.
- 3. The permittee shall submit a completed WTC Annual Report Form each year that they use and discharge WTCs. This form shall be submitted in electronic format and attached to either the December DMR or the annual monitoring report required below. The WTC Notification Form and WTC Annual Report Form are available from the Department's website at: http://www.dec.ny.gov/permits/93245.html

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# RECORDING, REPORTING AND ADDITIONAL MONITORING REQUIREMENTS

- A. The monitoring information required by this permit shall be retained for a period of at least five years from the date of the sampling for subsequent inspection by the Department or its designated agent.
- B. <u>Discharge Monitoring Reports (DMRs)</u>: Completed DMR forms shall be submitted for each 1 month reporting period in accordance with the DMR Manual available on Department's website.

DMRs must be submitted electronically using the electronic reporting tool (NetDMR) specified by NYSDEC. Instructions on the use of NetDMR can be found at <a href="https://www.dec.ny.gov/chemical/8461.html">https://www.dec.ny.gov/chemical/8461.html</a>. Hardcopy paper DMRs will only be received at the address listed below, directed to the Bureau of Water Compliance, if a waiver from the electronic submittal requirements has been granted by DEC to the facility.

The first monitoring period begins on the effective date of this permit, and, unless otherwise required, the reports are due no later than the 28th day of the month following the end of each monitoring period.

C. Additional information required to be submitted by this permit shall be summarized and reported to the RWE and Bureau of Water Permits at the following addresses:

Department of Environmental Conservation Division of Water, Bureau of Water Permits 625 Broadway, Albany, New York 12233-3505

25 Broadway, Albany, New York 12233-3505 Phone: (518) 402-8111

Department of Environmental Conservation Regional Water Engineer, Region 4

1130 North Westcott Road, Schenectady, New York, 12306-2014 Phone: (518) 357-2045

#### D. Schedule of Additional Submittals:

The permittee shall submit the following information to the Regional Water Engineer and to the Bureau of Water Permits, unless otherwise instructed:

Outfall(s)	SCHEDULE OF ADDITIONAL SUBMITTALS - Required Action	Due Date
001 & 002	WHOLE EFFLUENT TOXICITY (WET) TESTING WET testing shall be performed as required in the footnote of the permit limits table. The toxicity test report including all information requested of this permit shall be attached to your WET DMRs and sent to the	

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Outfall(s)	SCHEDULE OF ADDITIONAL SUBMITTALS - Required Action	Due Date
001	SOLVENT MANAGEMENT PLAN Annually, the permittee shall review and modify, as necessary, the Solvent Management plan as required in the Special Conditions. The permittee shall certify in writing, as an attachment to the December DMR, that the review has been completed. All Solvent Management plan revisions must be maintained on site.	January 28 <sup>th</sup> , annually
001	EMERGING CONTAMINANT SHT-TERM MONITORING The permittee shall collect grab samples of both the influent and effluent from the facility's treatment system(s) associated with the identified outfall for Per-and Polyfluoroalkyl Substances (PFAS) utilizing EPA draft analytical method 1633 and 1,4-Dioxane (1,4-D) utilizing EPA Method 8270D SIM or 8270E SIM. The samples must represent normal discharge conditions and treatment operations and shall be obtained on a monthly basis for at least 3 consecutive months.  The results shall be reported through the "Emerging Contaminants Survey for Industrial Facilities" found at: https://www.dec.ny.gov/chemical/127939.html.	EDP + 6 months
	The permittee shall initiate track down of potential sources by completing the "Emerging Contaminants Investigation Checklist for Industrial Facilities" available at the above link.  The Department may periodically request updates and/or additional monitoring to check progress on track down investigations. Elements of the checklist may be used as permit conditions in future permit modifications.	Within 90 days of DEC written notification
002, 005, 006, 007, 008	STORMWATER POLLUTION PREVENTION PLAN (SWPPP) Permittee shall develop a SWPPP in accordance with the minimum requirements in the Stormwater Pollution Prevention Requirements.	Maintained Onsite EDP + 6 months

#### Unless noted otherwise, the above actions are one-time requirements.

- E. Monitoring and analysis shall be conducted using sufficiently sensitive test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit.
- F. More frequent monitoring of the discharge(s), monitoring point(s), or waters of the State than required by the permit, where analysis is performed by a certified laboratory or where such analysis is not required to be performed by a certified laboratory, shall be included in the calculations and recording of the data on the corresponding DMRs.
- G. Calculations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.
- H. Unless otherwise specified, all information recorded on the DMRs shall be based upon measurements and sampling carried out during the most recently completed reporting period.
- I. Any laboratory test or sample analysis required by this permit for which the State Commissioner of Health issues certificates of approval pursuant to section 502 of the Public Health Law shall be conducted by a laboratory which has been issued a certificate of approval. Inquiries regarding laboratory certification should be directed to the New York State Department of Health, Environmental Laboratory Accreditation Program.

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Water Quality Reviewer: Catherine G. Winters

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# SPDES Permit Fact Sheet Amphenol Corporation Amphenol Corporation -Aerospace Operations NY0003824



Permittee: Amphenol Corporation Facility: Amphenol Corporation - Aerospace Operations SPDES Number: NY0003824

USEPA Major/Class 03 Industrial

Date: October 5, 2023 v.1.11 Permit Writer: Catherine G. Winters

Water Quality Reviewer: Catherine G. Winters

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## Summary of Permit Changes

A State Pollutant Discharge Elimination System (SPDES) EBPS permit renewal has been drafted for the AMPHENOL CORPORATION - AEROSPACE OPERATIONS. The changes to the permit are summarized below:

#### Updated

- Permit format, definitions, and general conditions
- WIN to include the item number
- Permittee address and contact information
- Outfall 001 coordinates
- Summary of Additional Outfalls
- Outfall 001 sample frequencies to 2/week in accordance with TOGS 1.2.1
- Outfall 001 temperature sampling type
- Chesapeake Bay TMDL limitations and incorporation of existing requirements for total nitrogen, TKN, nitrate, nitrite, and total phosphorus to the permit limits table
- Outfalls 002, 005, 006, 007, 008 pH limits to a minimum of 6.5 and a maximum of 8.5
- Outfall 001 WET sampling frequency to quarterly every year
- Outfall 002 WET sampling frequency to monthly every year
- Outfalls 002, 005, 006, 007, 008 wastewater descriptions
- Outfalls 002, 005, 006, 007, 008 temperature limitations to monitoring
- Facility diagram and monitoring locations
- Mercury minimization program requirements to Type III

#### Added

- WET limitations to Outfalls 001 and 002 (previously action levels)
- Internal Outfall 01A, which includes limitations for total cyanide
- Internal Outfall 01B, which includes limitations for hexavalent chromium, total chromium, total iron, total lead, and total manganese, and monitoring for total copper, total cadmium, total cyanide, total nickel, total silver, and total zinc
- Internal Outfall 01C, where no monitoring is required
- Outfall 001
  - TSS, total cadmium, total chromium, total copper, total cyanide, total lead, total nickel, total silver, total zinc, and oil & grease monthly average and/or daily maximum concentration limitations
  - Hexavalent chromium daily maximum concentration limitation and monthly average monitoring
  - Settleable solids limitation
  - 12-MRA mercury limitation
  - Free cyanide daily maximum monitoring
  - Total lead load monitoring
  - o Total toxic organics daily maximum concentration limitation
  - TRC daily maximum monitoring
  - o Sulfite, color, and total beryllium daily maximum monitoring
- Stormwater Pollution Prevention Plan (SWPPP) requirement
- Outfall 002
  - Total aluminum, total barium, total cadmium, total chromium, total copper, total lead, total nickel, total zinc, and hardness concentration monitoring
- Solvent management plan requirement
- Schedule of compliance to meet final total nitrogen 12-month rolling total limitation

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Schedule of additional submittals

Emerging contaminant short-term monitoring

#### Reduced

- Outfall 001 total cadmium, total chromium, total copper, total nickel, total silver, and total zinc load limitations
- Outfall 001 acute WET action levels based on updated dilution ratios (now 50:1)
- Outfalls 005, 006, 007, and 008 Flow, pH, temperature, and oil & grease sampling frequency

#### Removed

- Previous format of Chesapeake Bay TMDL Implementation tables and sub-aggregate language
- Outfall 001 mercury monthly average monitoring and daily maximum load limitation
- Outfall 001 monitoring and/or actions levels for chloroform, methylene chloride, and trichloroethylene.

This factsheet summarizes the information used to determine the effluent limitations (limits) and other conditions contained in the permit. General background information including the regulatory basis for the effluent limitations and other conditions are in the <a href="#">Appendix</a> linked throughout this factsheet.

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## Administrative History

2/1/2009 The last full technical review was performed and the SPDES permit became effective with a new five-year term and expiration date of 1/31/2014. The 2009 permit, along with all subsequent modifications, has formed the basis of this permit.

9/01/2014 Permit was renewed for 5-year term and modified to include Chesapeake Bay

TMDL requirements.

2/25/2019 The Amphenol Corporation submitted a timely and sufficient application for permit

renewal.

8/31/2019 The current permit was extended pursuant to SAPA<sup>1</sup>.

7/16/2020 Department issued a Request for Information (RFI) to modify and renew the

SPDES permit due to the facility's EBPS score<sup>2</sup>. At the time of the RFI, the facility

had an EBPS score of 125 and ranking of 304.

11/4/2020 The Amphenol Corporation submitted a NY-2C permit application.

The Notice of Complete Application, published in the Environmental Notice Bulletin and newspapers, contains information on the public notice process.

## **Facility Information**

This is an industrial electroplating facility (SIC code 3471). Industrial operations have been on site since the 1880s. In 1986, primary operations at the site shifted to the manufacturing of electrical connectors. The electroplating process was installed in the 1960s. Regular plating tank replacements have occurred over the years, but there have been no changes to the process since the 1960s. The processes that take place at the plating facility include both electrolytic and electroless plating. The facility plates gold, copper, nickel, silver, cadmium, tin lead, zinc, PTFE teflon, or brass on a variety of base metals including stainless steel, brass, carbon steel, copper, aluminum, or PEEK. After two devastating 100-year flood events, in 2006 and 2011, Amphenol began relocating manufacturing operations offsite. As of 2015, the only activity that remains at 40-60 Delaware Ave is electroplating. The old manufacturing structure was demolished in 2019.

Effluent from Outfall 001 consists of process wastewater. Process water is sourced from the remediated West Well, supplemented by municipal water when needed. Process waste is combined from three internal outfalls with unique waste streams. Figure 1 depicts the three process waste streams that are individually treated prior to combined settling and filtration. The first waste stream consists of cyanide bearing baths and rinses (Outfall 01A), the second consists of hexavalent chromium bearing baths and rinses (Outfall 01B), and the third consists of low pH baths and rinses (Outfall 01C). The cyanide waste is destructed and chlorinated. The hexavalent chromium waste stream undergoes reduction and settling. The pH of the acid wastewater stream is adjusted, cyanide is converted to carbon and nitrogen, and hexavalent chromium is converted to trivalent chromium and then neutral chromium. Then all three waste streams are mixed, pH adjusted, flocculated and clarified, passed through a sand filter, and undergo final pH adjustment.

<sup>&</sup>lt;sup>1</sup> State Administrative Procedures Act Section 401(2) and 6 NYCRR 621.11(*I*)

<sup>&</sup>lt;sup>2</sup> Pursuant to 6 NYCRR 750-1.18 and NYS Environmental Benefit Permit Strategy (EBPS)

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Effluent sampling for Outfall 001 occurs prior to transport to Keith Clark Park where Village of Sidney municipal wastewater and Outfall 001 effluent converge. The combined wastewater is then diffused into the Susquehanna River.

Figure 2 below is a detailed depiction of the three internal outfall waste treatment processes. Tanks 1 A - 5 are considered "pretreatment" for the three waste streams from the plating building - acid, cyanide, and chromium. All pretreatment is done via pH adjustment, process control is done with online oxidation-reduction potential (ORP) meters which control the pH. The cyanide waste stream is treated in Tanks 1A, 1B, 1C and 2A and 2B. Cyanide is treated in three stages: 1) cyanide converted to cyanate with addition of sodium hypochlorite to increase pH in Tank 1A and 1B; 2) in tank 2A and 2B, more sodium hypochlorite is added to completely destruct the cyanate to carbon and nitrogen; 3) destruction reactions continue in Tank 1C, no additional chemicals are added. The wastewater then flows to Tank 4B. Chromium is treated in the Tank 3 group. Sulfur dioxide is used to convert hexavalent chrome to trivalent chromium, and then trivalent chromium is converted to neutral chromium. The pH is maintained at 10.5 - 12. Metabisulfite can be added to the channel between Tanks 3C and 4B if necessary. Acid is treated in Tanks 4A and 4B. Tank 4A is an acid equalization tank, receiving influent flow directly from plating. Flow from Tank 4A discharges to Tank 4B. Tank 4B is a mixing tank that receives flow from the other tanks, as well as the sand filter backwash. The acid containing wastewater from 4A and sodium hydroxide are used to reach the set point pH in 4B of 6.7. Flow then discharges to Tank 5 where the wastewater is pumped to the clarifier/WWTP for final treatment with two stages of coagulant additions for metals and phosphorus removal.

Stormwater runoff is discharged through Outfalls 002, 005, 006, 007, and 008. These outfalls are tested monthly for oil and grease, pH, and temperature. Outfall 002 is also tested for halogenated hydrocarbons as a part of various remediation projects at the site.

On August 1, 2023, the permittee informed DEC that the reverse osmosis reject water was discovered to join the effluent after the current effluent sampling location. On September 6, 2023, the permittee provided notice that the reverse osmosis reject water was rerouted to Tank 4B in the treatment system. No further action will be required in this permit.

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#### Site Overview

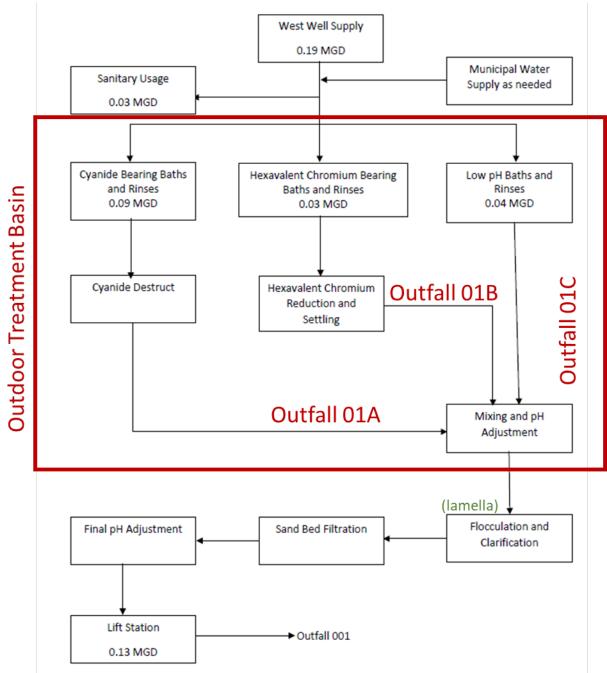


Figure 1. Process flow diagram for Outfall 001.

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## **Outdoor Treatment Basin Diagram**

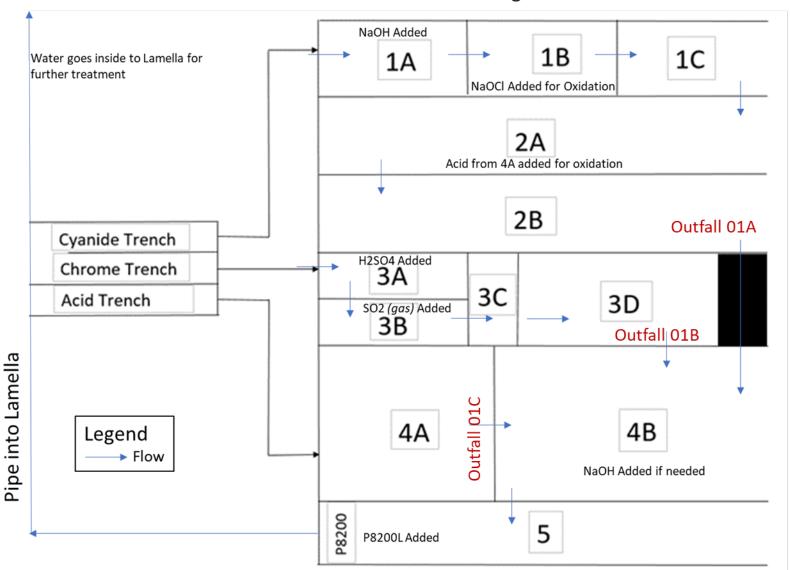


Figure 2. Detailed view of outdoor treatment basin.

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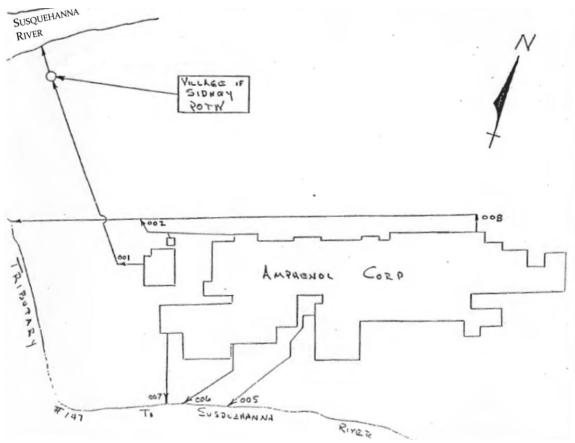


Figure 3. All stormwater outfalls (002, 005, 006, 007, 008) discharge to Tributary 147, an intermittent stream.

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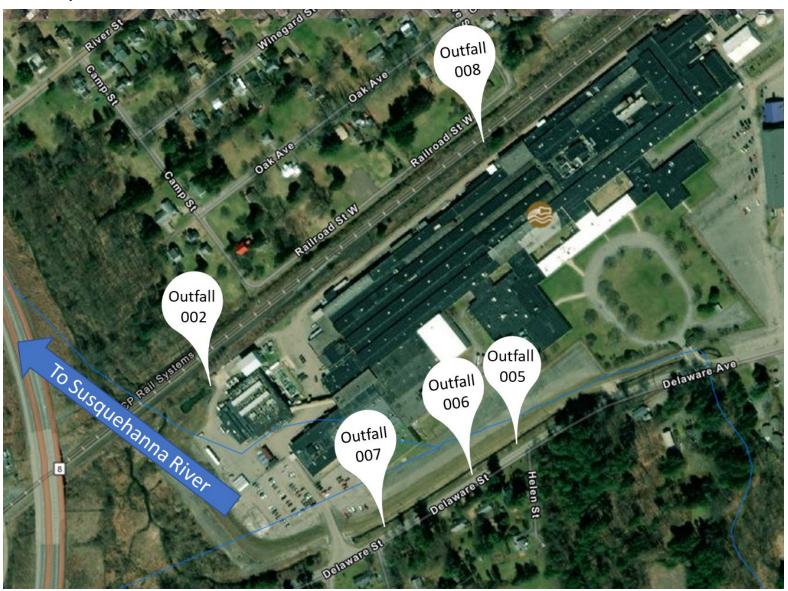


Figure 4. Satellite view of facility with stormwater outfalls labeled.

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#### **Enforcement History**

Compliance and enforcement information can be found on the EPA's Enforcement and Compliance History Online (ECHO) website.

#### **Existing Effluent Quality**

The Pollutant Summary Table (PST) presents the existing effluent quality and effluent limitations. The existing effluent quality was determined from Discharge Monitoring Reports submitted by the permittee for the period 5/1/2017 to 5/31/2022, unless otherwise noted in the PST. Appendix Link

#### Interstate Water Pollution Control Agencies

All outfalls are located within the Chesapeake Bay watershed and Susquehanna River Basin Commission (SRBC) compact area, which places additional requirements in the SPDES permit. Appendix Link

#### Additional Site-Specific Concerns

Effluent from Outfall 001 comingles with the effluent from the Village of Sidney WPCP prior to entering the Susquehanna River. Effluent sampling for the Amphenol permit (NY0003824) is sampled prior to leaving the Amphenol site.

## **Receiving Water Information**

The facility discharges via the following outfalls:

Outfall No.	SIC Code	Wastewater Type	Receiving Water
001	3471	Process water	Susquehanna River, Class B
002	3471	Stormwater	Tributary 147, Class C
005, 006, 007, 008	3471	Stormwater	Tributary 147, Class C

#### **Reach Description:**

The Susquehanna River (SR (portion 7)) is part of the Chesapeake Bay watershed. Amphenol Aerospace effluent from Outfall 001 comingles with the effluent from the Village of Sidney WPCP (NY0029271) prior to discharge into the Susquehanna River. The segment of the Susquehanna River at the point of discharge is Class B. USGS Gage 01500500 is approximately 6 miles upstream of Outfall 001 in the Susquehanna River.

Tributary 147 is Class C and flows into the Susquehanna River.

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**Figure 5.** USGS Gage 01500500 at Unadilla is located upstream of the joint outfall pipe where Amphenol (001) and the Village of Sidney discharge treated effluent into the Susquehanna River.



**Figure 6.** Aerial view of the Village of Sidney WPCP Outfall 001 and Amphenol Aerospace Outfall 001 which discharge to the Susquehanna River, and Amphenol Outfall 002 which discharges to Tributary 147.

See the Outfall and Receiving Water Summary Table and Appendix for additional information.

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## Impaired Waterbody Information

Neither the Susquehanna River (PWL No. 0601-0020) nor Tributary 147 (PWL No. 0601-0154) are listed on the 2018 New York State Section 303(d) List of Impaired/Total Maximum Daily Load (TMDL) waters; however, this waterbody segment is located within the Chesapeake Bay Watershed and is subject to the applicable requirements of the Chesapeake Bay TMDL and New York's Phase III Watershed Implementation Plan (Phase III WIP) for the TMDL<sup>3</sup>, as discussed below.

# Chesapeake Bay TMDL Watershed Information

The Amphenol Corporation is considered a "Bay-Significant" industrial facility because its total nitrogen loads exceed 27,000 pounds per year and total phosphorus loads exceed 3,800 pounds per year. In accordance with the Phase III WIP, these nitrogen and phosphorus loads warrant discharge limits and effluent monitoring for these parameters.

The Amphenol Corporation is required to sample and report Total Phosphorus as P, as well as Total Kjeldahl Nitrogen (TKN) as N, Nitrite (NO<sub>2</sub>) as N, Nitrate (NO<sub>3</sub>) as N, and to calculate Total Nitrogen as N. The Total Nitrogen and Total Phosphorus 12-month loads (TN 12-ML and TP 12-ML respectively) are defined as the sum of the current month loads added to the month loads from the eleven previous months for Nitrogen and Phosphorus, respectively. See the Pollutant Summary Table for a discussion on the derivation of Total Nitrogen and Total Phosphorus effluent limits.

The Water Quality Based Effluent Limits (WQBELs) below are set by DEC in accordance with the Phase II and III WIP.

WIP II Interim Limits Effective through 12/31/2024

Total Nitrogen (as N) 12-month Load (TN 12-ML): 134,000 lb/year

WIP III Final Limits Effective 1/1/2025

Total Nitrogen (as N) 12-month Load (TN 12-ML): 90,000 lb/year

WIP III Final Limits Currently Effective

Total Phosphorus (as P) 12-month Load (TP 12-ML): 761 lb/year

#### Toxics Reduction Strategy

The Department conducted a watershed analysis for the Susquehanna River Watershed in 2022. The critical reaches for the Susquehanna River Watershed are the headwaters downstream to the Class A portion that ends at the Town of Endicott and from downstream of Endicott to the end of the Susquehanna River in NY near the Town of Nichols (Class B). The WMDL analysis is used in addition to the Department's individual facility review to ensure that the cumulative impacts from various point source discharges do not exceed the waste assimilative capacity (WAC) of the critical reaches. The following pollutants were found to be water quality limiting in the Susquehanna River and a watershed maximum daily load is being added or maintained: bis(2ethylhexyl) phthalate, iron, cyanide, thallium, phenolic compounds, silver, lead, and copper.

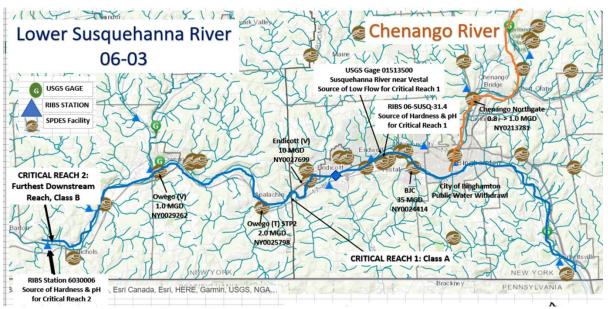
<sup>&</sup>lt;sup>3</sup> https://www.dec.ny.gov/lands/33279.html

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See the Outfall and Receiving Water Summary Table and Appendix for additional information.

# Critical Receiving Water Data & Mixing Zone

#### Outfall 001

The low flow condition for the Susquehanna River was obtained from a drainage basin ratio analysis with USGS gage station 01500500, Susquehanna River at Unadilla located at 42.3155, -75.4037. The 1Q10, 7Q10 and 30Q10 flows at the gage were found from the USGS SW Toolbox software and an analysis of data from 1939 to 2020.

DRAINAGE BASIN RATIO	1Q10	7Q10	30Q10	
Gage Name		Susquehanna River at Unadilla	1	
Gage ID Number		1500500		
Low Flow at Gage (cfs)	72	84	103	SW Toolbox
Drainage Area at Gage (mi²)	982	982	982	USGS gage webpage
Drainage Area at Facility (mi2)	1030	1030	1030	Streamstats
Drainage Basin Ratio (facility / gage)	1.0	1.0	1.0	
Calculated Flow at Facility (cfs)	75.83	88.30	107.66	

The 1Q10, 7Q10, and 30Q10 flows were used to calculate the acute, chronic, and human, aesthetic, wildlife (HEW) dilution ratios, respectively. Consistent with TOGS 1.3.1 for large rivers, the acute and chronic dilution ratios are limited to a max of 50:1 and 100:1, respectively.

Dilution Ratio = (Facility Flow + Low Flow) / Facility Flow

Outfall No.	Acute Dilution Ratio A(A)	Chronic Dilution Ratio A(C)	Human, Aesthetic, Wildlife Dilution Ratio (HEW)	Basis
001	50:1	100:1	100:1	TOGS 1.3.1
002	1:1	1:1	1:1	
005	1:1	1:1	1:1	TOCC 4 2 4
006	1:1	1:1	1:1	TOGS 1.3.1 ISEL Limits
007	1:1	1:1	1:1	ione emilio
800	1:1	1:1	1:1	

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# Outfalls 002, 005, 006, 007, 008

Intermittent stream effluent limits (ISEL) have been applied because Tributary 147 is a headwater stream and ISEL have been historically required at these outfalls. Consistent with TOGS 1.3.1, the water quality standards will be applied as end-of-pipe limitations with no mixing or dilution.

Critical receiving water data are listed in the <u>Pollutant Summary Table</u> at the end of this fact sheet. <u>Appendix Link</u>

# Permit Requirements

The technology based effluent limitations (<u>TBELs</u>), water quality-based effluent limitations (<u>WQBELs</u>), <u>Existing Effluent Quality</u> and a discussion of the selected effluent limitation for each pollutant present in the discharge are provided in the <u>Pollutant Summary Table</u>.

# USEPA Effluent Limitation Guidelines (ELGs) Applicable to Facility

Best Practicable Control Technology Currently Available (BPT), Best Conventional Pollutant Control Technology (BCT), Best Available Technology Economically Achievable (BAT), and New Source Performance Standards (NSPS) limitations are based on <u>Effluent Limitation Guidelines</u> developed by USEPA for specific industries<sup>4</sup>. The applicable effluent guidelines and limits are listed at the end of the Pollutant Summary Table in the USEPA ELG Calculation Table. <u>Appendix Link</u>

# Whole Effluent Toxicity (WET) Testing

An evaluation of the discharge indicates the potential for toxicity based on the following criteria:

#### Outfall 001

- Previous WET testing indicated a problem. (#6)
- There is the possibility of complex synergistic or additive effects of chemicals, typically when the number of metals or organic compounds discharged by the permittee equals or exceeds five. (#4)
- There is the presence of substances in the effluent for which ambient water quality criteria do not exist. (#1)

Consistent with TOGS 1.3.2, a reasonable potential analysis was performed using the existing WET data for this facility (see data below). It was determined that there is the potential for toxicity in the effluent and acute and chronic WET limits are being added to the permit. Given the degree of acute and chronic toxicity observed historically at this Outfall, as well as the reduction in available dilution, the permit requires chronic only WET testing, which is consistent with previous letter directed requirements from the Department. Samples will be collected quarterly on an annual basis. WET testing limits of 15 TUa and 100 Tuc have been included in the permit for each species for Outfall 001. The acute action level for each species represent the acute dilution ratio times a factor of 0.3. The chronic limits represent the chronic dilution ratio.

-

<sup>&</sup>lt;sup>4</sup> As promulgated under 40 CFR Parts 405 - 471

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#### Outfall 001 (using draft WET ALs of 15.0 TUa & 100.0 TUc)

Outfall	Test Date	<sup>1</sup> MSS 48H LC50 (%Effluent)	<sup>2</sup> MSS TUa	<sup>3</sup> TUa Action Level	<sup>4</sup> MSS Survival 20% Effluent	⁵Acute Test Result	<sup>6</sup> MSS RPD TUa	<sup>7</sup> Acute WET Limit Required	<sup>8</sup> MSS 7D NOEC/IC25 (%Effluent)	<sup>9</sup> MSS NOEC/IC25 TUc	<sup>10</sup> TUc Action Level	<sup>11</sup> Chronic Test Result	<sup>12</sup> MSS RPD IC25 TUc	<sup>13</sup> Chronic WET Limit Required
001	09/22	>20.0% (FI)	<5.0 (FI)	15.0	100% (FI)	Pass	<13.0	No	5.0% (I)/5.9% (I)	20.0 (I)/17.0 (I)	100.0	Pass/Pass	44.2	No
001	12/22	84.1% (F)	1.2 (F)	15.0	35% (F)	Pass	3.1	No	10.0% (I)/7.4% (I)	10.0 (I)/13.5 (I)	100.0	Pass/Pass	35.1	No
001	03/23	3.5% (I)	28.6 (I)	15.0	0% (I)	Fail	74.4	Yes	1.25% (I)/1.7% (I)	80.0 (I)/58.8 (I)	100.0	Pass/Pass	152.9	Yes
001	06/23	35.4% (F)	2.8 (F)	15.0	0% (F)	Pass	7.3	No	2.5% (I)/3.0% (I)	40.0(I)/33.3(I)	100.0	Pass/Pass	86.6	No

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1 Most Sensitive Species 48-hour Lethal Concentration: (F=Fish; I=Invertebrate) is the concentration or percentage of effluent that is lethal to 50% of the exposed organisms over a 48-hour period, and often indicates one species is more sensitive than the other during effluent testing.

2 Most Sensitive Species Toxic Units Acute: is calculated as (100 / MSS 48H LC50). However, because < 0.3 TUa is defined as the acceptable amount of Acute toxicity at the edge of the Acute mixing zone, and mathematically 100 / 100 = 1.0 (i.e. a "failing result"), non-toxic Acute test results are indicated as < 0.3.

<sup>3</sup>Toxic Unit Acute Action Level/Limit: is calculated as [Acute Dilution Factor x 0.3 TUa] representing the maximum allowable effluent TUa at the edge of the Acute mixing zone ensuring Acute protection of the receiving water. When the Acute Dilution Factor is <3.3. the default Acute Action Level of 0.3 TUa is used representing the maximum allowable effluent TUa at the end of pipe.

<sup>4</sup>Most Sensitive Species Survival in 20% Effluent: is the lowest percentage of surviving organisms in 20% effluent, the highest effluent concentration tested, providing additional evidence of unacceptable Acute toxicity when the necessary 50% or greater mortality required to generate an LC50 has not been attained. \*Denotes statistically significant mortality in 20% effluent as compared to the control

5Acute Test Result: MSS TUa < TUa Action Level/Limit for passing effluent test result and MSS TUa > TUa Action Level/Limit for a failing effluent test result. If unacceptable mortality (i.e. statistically significant as compared to the control) is noted in 20% effluent, this may also be considered a failing test result.

6 Most Sensitive Species Reasonable Potential Determination Toxic Units Acute: is calculated as (MSS TUa x 2.6), the Reasonable Potential Multiplier (RPM) when four tests have been completed, taking into account the statistical potential for effluent variability to occur causing an exceedance of the toxicity-based Action Level.

Acute Whole Effluent Toxicity Limit Required: MSS RPD TUa < TUa Action Level, then no toxicity-based Limit is required, and the Action Level remains in place. If MSS RPD TUa > TUa Action Level, then a toxicity-based Limit is required, and the Action Level becomes the Limit. \*\*In low dilution situations, the application of the RPM to the Acute results often mathematically suggests the need for Acute WET Limits even when there is no toxicity evident in 100% effluent (a non-detect). Therefore, this data cannot be used to implement a WET Limit.

<sup>8</sup>Most Sensitive Species 7-day No Observed Effect Concentration or 25% Inhibition Concentration: is the highest concentration or percentage of effluent tested that causes no statistically significant effect to the exposed test organisms as compared to the control over a 7-day period, or the concentration or percentage of effluent that causes a 25% reduction in survival, growth, or reproduction for the test population.

Most Sensitive Species Toxic Units Chronic: is calculated as (100 / MSS 7D NOEC) or (100 / MSS 7D IC25).

10 Toxic Unit Chronic Action Level/Limit: is calculated as [Chronic Dilution Factor x 1.0 TUc] representing the maximum allowable effluent TUc at the edge of the Chronic mixing zone ensuring Chronic protection of the receiving water.

11Chronic Test Result: MSS NOEC/IC25 TUc < TUc Action Level/Limit for passing effluent test result and MSS NOEC/IC25 TUc > TUc Action Level/Limit for a failing effluent test result.

12 Most Sensitive Species Reasonable Potential Determination Toxic Units Chronic: is calculated as (MSS IC25 TUc x 2.6), the Reasonable Potential Multiplier (RPM) when four tests have been completed, taking into account the statistical potential for effluent variability to occur causing an exceedance of the toxicity-based Action Level.

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<sup>13</sup>Chronic Whole Effluent Toxicity Limit Required: MSS RPD IC25 TUc ≤ TUc Action Level, then no toxicity-based Limit is required, and the Action Level remains in place. If MSS RPD IC25 TUc > TUc Action Level, then a toxicity-based Limit is required, and the Action Level becomes the Limit. \*\*\*In low dilution situations, the application of the RPM to the Chronic results often mathematically suggests the need for Chronic WET Limits even when there is no toxicity evident in 100% effluent (a non-detect). Therefore, this data cannot be used to implement a WET Limit.

#### Outfall 002

Previous WET testing indicated a problem. (#6)

Consistent with TOGS 1.3.2, a reasonable potential analysis was performed using the existing WET data for this facility (see data below). It was determined that there is the potential for toxicity in the effluent and WET limits are being added to the permit. The facility entered into a TI/RE for Outfall 002 in 2015. In accordance with TOGS 1.3.2, WET limits may not be deferred more than 5 years from the onset of a TI/RE. Given the dilution available, the permit requires chronic only WET testing. Samples will be collected monthly on an annual basis. WET testing limits of 0.3 TUa and 1.0 TUc have been included in the permit for each species. The acute dilution ratio is less than 3.3 and the acute action level has been set equal to the default value of 0.3 TUa. The chronic action levels represent the chronic dilution ratio.

Outfall	Test Date	<sup>1</sup> MSS 48H LC50 (%Effluent)	<sup>2</sup> MSS TUa	<sup>3</sup> TUa Action Level	⁴MSS Survival 100% Effluent	⁵Acute Test Result	<sup>6</sup> MSS RPD TUa	<sup>7</sup> Acute WET Limit Required	<sup>8</sup> MSS 7D NOEC/IC25 (%Effluent)	<sup>9</sup> MSS NOEC/IC25 TUc	<sup>10</sup> TUc Action Level	<sup>11</sup> Chronic Test Result NOEC/IC25	_	<sup>13</sup> Chronic WET Limit Required
002	01/21	>100% (FI)	<0.3 (FI)	0.3	100% (FI)	Pass	<0.6	**No	12.5% (I) / 21.6% (I)	8.0 (I) / 4.6 (I)	1.0	Fail/ Fail	8.7	Yes
002	06/21	20.3% (I)	4.9 (I)	0.3	0% (I)	Fail	9.3	Yes	<6.25% (I) / 2.5% (I)	>16.0 (I) / 40.0 (I)	1.0	Fail/ Fail	76.0	Yes
002	08/21	30.8% (I)	3.3 (I)	0.3	0% (I)	Fail	6.3	Yes	12.5% (I) / 12.6% (I)	8.0 (I) / 7.9 (I)	1.0	Fail/ Fail	15.0	Yes
002	11/21	33.0% (I)	3.0 (I)	0.3	0% (I)	Fail	5.7	Yes	<6.25% (I) / 4.1% (I)	>16.0 (I) / 24.4 (I)	1.0	Fail/ Fail	46.4	Yes
002	10/22	21.8% (I)	4.6 (I)	0.3	0% (I)	Fail	8.7	Yes	<6.25% (I) / 0.6% (I)	>16.0 (I) / 166.7 (I)	1.0	Fail/ Fail	316.7	Yes
002	11/22	40.6% (I)	2.5 (I)	0.3	0% (I)	Fail	4.8	Yes	<6.25% (I) / 0.9% (I)	>16.0 (I) / 111.1 (I)	1.0	Fail/ Fail	211.1	Yes
002	04/23		WET	Test Inva	lid		N/A	N/A		WET Test Invalid			N/A	N/A
002	05/23	15.4% (I)	6.5 (I)	0.3	0% (I)	Fail	12.4	Yes	<6.25% (I) / 1.6% (I)	>16.0 (I) / 62.5 (I)	1.0	Fail/ Fail	118.8	Yes
002	06/23	4.4% (I)	22.7 (I)	0.3	0% (I)	Fail	43.1	Yes	<6.25% (I) / 1.6% (I)	>16.0 (I) / 62.5 (I)	1.0	Fail/ Fail	118.8	Yes

<sup>&</sup>lt;sup>1</sup>Most Sensitive Species 48-hour Lethal Concentration: (F=Fish; I=Invertebrate) is the concentration or percentage of effluent that is lethal to 50% of the exposed organisms over a 48-hour period, and often indicates one species is more sensitive than the other during effluent testing.

<sup>&</sup>lt;sup>2</sup>Most Sensitive Species Toxic Units Acute: is calculated as (100 / MSS 48H LC50). However, because ≤ 0.3 TUa is defined as the acceptable amount of Acute toxicity at the edge of the Acute mixing zone, and mathematically 100 / 100 = 1.0 (i.e. a "failing result"), non-toxic Acute test results are indicated as < 0.3.

<sup>&</sup>lt;sup>3</sup>Toxic Unit Acute Action Level/Limit: is calculated as [Acute Dilution Factor x 0.3 TUa] representing the maximum allowable effluent TUa at the edge of the Acute mixing zone ensuring Acute protection of the receiving water. When the Acute Dilution Factor is <3.3, the default Acute Action Level of 0.3 TUa is used representing the maximum allowable effluent TUa at the end of pipe.

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<sup>4</sup>Most Sensitive Species Survival in 100% Effluent: is the lowest percentage of surviving organisms in 100% effluent, providing additional evidence of unacceptable Acute toxicity when the necessary 50% or greater mortality required to generate an LC50 has not been attained. \*Denotes statistically significant mortality in 100% effluent as compared to the control.

<sup>5</sup>Acute Test Result: MSS TUa ≤ TUa Action Level/Limit for passing effluent test result and MSS TUa > TUa Action Level/Limit for a failing effluent test result. If unacceptable mortality (i.e. statistically significant as compared to the control) is noted in 100% effluent, this may also be considered a failing test result.

<sup>6</sup>Most Sensitive Species Reasonable Potential Determination Toxic Units Acute: is calculated as (MSS TUa x 1.9), the Reasonable Potential Multiplier (RPM) when eight tests have been completed, taking into account the statistical potential for effluent variability to occur causing an exceedance of the toxicity-based Action Level.

<sup>7</sup>Acute Whole Effluent Toxicity Limit Required: MSS RPD TUa ≤ TUa Action Level, then no toxicity-based Limit is required, and the Action Level remains in place. If MSS RPD TUa > TUa Action Level, then a toxicity-based Limit is required, and the Action Level becomes the Limit. \*\*In low dilution situations, the application of the RPM to the Acute results often mathematically suggests the need for Acute WET Limits even when there is no toxicity evident in 100% effluent (a non-detect). Therefore, this data cannot be used to implement a WET Limit.

<sup>8</sup>Most Sensitive Species 7-day No Observed Effect Concentration or 25% Inhibition Concentration: is the highest concentration or percentage of effluent tested that causes no statistically significant effect to the exposed test organisms as compared to the control over a 7-day period, or the concentration or percentage of effluent that causes a 25% reduction in survival, growth, or reproduction for the test population.

9Most Sensitive Species Toxic Units Chronic: is calculated as (100 / MSS 7D NOEC) or (100 / MSS 7D IC25).

<sup>10</sup>Toxic Unit Chronic Action Level/Limit: is calculated as [Chronic Dilution Factor x 1.0 TUc] representing the maximum allowable effluent TUc at the edge of the Chronic mixing zone ensuring Chronic protection of the receiving water.

11Chronic Test Result: MSS NOEC/IC25 TUc < TUc Action Level/Limit for passing effluent test result and MSS NOEC/IC25 TUc > TUc Action Level/Limit for a failing effluent test result.

<sup>12</sup>Most Sensitive Species Reasonable Potential Determination Toxic Units Chronic: is calculated as (MSS IC25 TUc x 1.9), the Reasonable Potential Multiplier (RPM) when eight tests have been completed, taking into account the statistical potential for effluent variability to occur causing an exceedance of the toxicity-based Action Level.

<sup>13</sup>Chronic Whole Effluent Toxicity Limit Required: MSS RPD IC25 TUc ≤ TUc Action Level, then no toxicity-based Limit is required, and the Action Level remains in place. If MSS RPD IC25 TUc > TUc Action Level, then a toxicity-based Limit is required, and the Action Level becomes the Limit. \*\*\*In low dilution situations, the application of the RPM to the Chronic results often mathematically suggests the need for Chronic WET Limits even when there is no toxicity evident in 100% effluent (a non-detect). Therefore, this data cannot be used to implement a WET Limit.

#### Appendix Link

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## Anti-backsliding

The mercury daily maximum load limitation is being removed since the water quality standard is expressed as concentration, and, in accordance with 40 CFR Part 122.45(f)(1)(ii) limitations shall be expressed in the same units as the water quality standard; therefore, backsliding is allowed for the mercury load limitation in accordance with 6 NYCRR Part 750-1.10(c)(2)(ii).

The temperature limitations at Outfalls 002, 005, 006, 007, 008 are being removed since the effluent no longer consists of non-contact cooling water or any other source of thermal pollution. Backsliding is allowed for temperature in accordance with 6 NYCRR Part 750-1.10(c)(1), "material and substantial alterations or additions to the permitted facility occurred after permit issuance, which justify the application of a less stringent effluent limitation".

## Antidegradation

The permit contains effluent limitations which ensure that the best usages of the receiving waters will be maintained. The Notice of Complete Application published in the Environmental Notice Bulletin contains information on the State Environmental Quality Review (SEQR)<sup>5</sup> determination. Appendix Link

# Discharge Notification Act Requirements

In accordance with the Discharge Notification Act (ECL 17-0815-a), the permittee is required to post a sign at each point of wastewater discharge to surface waters, unless a waiver is obtained. This requirement is being continued from the previous permit.

Additionally, the permit contains a requirement to make the DMR sampling data available to the public upon request. This requirement is being continued from the previous permit.

# Best Management Practices (BMPs) for Industrial Facilities

In accordance with 6 NYCRR 750-1.14(f) and 40 CFR 122.44(k), the permittee is required to continue implementation of a BMP plan that prevents, or minimizes the potential for, the release of toxic or hazardous pollutants to state waters. The BMP plan requires annual review by the permittee.

The facility discharges stormwater associated with industrial activity that would require SPDES permit coverage under 40 CFR 122.26. BMPs consistent with requirements contained in the NYS MSGP (GP-0-23-001) Sector AC, have been included in the permit and pollutants associated with the industrial activity are to be controlled through implementation of source controls developed and implemented under this BMP plan. This requirement is updated from the previous permit.

## Stormwater Pollution Prevention Requirements

The facility discharges stormwater associated with industrial activity and requires SPDES permit coverage under 40 CFR 122.26(a)(6).

Due to the exception of "electrical related industries" from MSGP Sector AA, stormwater discharges at this facility require coverage under an individual SPDES permit and are not eligible to obtain coverage under the current Multi-Sector General Permit (MSGP) (GP-0-23-001); however, the permit includes a stormwater pollution prevention plan consistent with the MSGP. This requirement is new.

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<sup>&</sup>lt;sup>5</sup> As prescribed by 6 NYCRR Part 617

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# Mercurv<sup>6</sup>

The multiple discharge variance (MDV) for mercury provides the framework for NYSDEC to require mercury monitoring and mercury minimization programs (MMPs), through SPDES permitting. Appendix Link

The facility is an industrial facility, located outside the Great Lakes Basin, with a mercury source and the permit includes requirements for the implementation of MMP Type III.

The permit includes a daily maximum total mercury effluent limitation of 50 ng/L, sampled monthly. The facility has ≥ 10 effluent mercury data points and the existing effluent quality (EEQ) of 20 ng/L was calculated from the lognormal 95<sup>th</sup> percentile of 51 mercury effluent samples collected from 05/31/2017 to 05/31/2022. Data from 10/01/2020 to 07/31/2021 was excluded from the calculation. In an email dated 08/17/2022, the permittee informed DEC that the sulfuric acid in use form October 2020 - July 2021 was contaminated with mercury. A mercury minimization program consisting of the following is also required:

- Additional monitoring of key locations, as defined in the MMP
- Control strategy for implementation of the MMP
- Annual status report (maintained onsite)

The facility is located outside the Great Lakes Basin and the EEQ is > 12 ng/L; therefore, the permit includes a 12-month rolling average total mercury effluent limitation equal to the EEQ. This requirement is new.

## Schedule of Compliance

A Schedule of Compliance is being included<sup>7</sup> for the following items (Appendix Link):

#### Outfall 001

- Compliance period for attainment of final effluent limits for Total Nitrogen
- Submittal of a joint outfall agreement
- Solvent management plan

# Outfall 002

- Storm system assessment
- Representative outfall location
- Time to comply with new effluent limitations for total copper and total lead

## **Emerging Contaminant Monitoring**

Emerging Contaminants, such as PFOA, PFOS, and 1,4-D, have been used in a wide variety of consumer and industrial products as well as in manufacturing processes for decades. These contaminants do not break down easily, therefore their presence in wastewater can remain a concern for years following their discontinued use. As the science surrounding these contaminants is still evolving, additional monitoring is needed to better understand potential sources and background levels. For more information on emerging contaminants, please see the NYSDEC Division of Water web page: <a href="https://www.dec.ny.gov/chemical/127939.html">https://www.dec.ny.gov/chemical/127939.html</a>.

Pursuant to 6 NYCRR Part 750-1.13(b), the permit includes a short-term monitoring program to evaluate the influent and effluent discharge levels of Per-and Polyfluoroalkyl Substances (PFAS)

<sup>&</sup>lt;sup>6</sup> In accordance with DOW 1.3.10 Mercury – SPDES Permitting & Multiple Discharge Variance (MDV), December 30, 2020.

<sup>&</sup>lt;sup>7</sup> Pursuant to 6 NYCRR 750-1.14

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and 1,4-Dioxane. This monitoring program is consistent with EPA PFAS guidance released in EPA guidance memos dated April 28, 2022, and December 5, 2022.

The Department will review the monitoring results and pursuant to 6 NYCRR 750-2.1(i) may notify the permittee of the need for further monitoring to identify potential sources as specified in the Emerging Contaminants Investigation Checklist for Industrial Facilities to determine whether cause exists to modify the permit to incorporate a pollutant minimization program per 6 NYCRR 750-1.14(f). The Department will consider this information and progress made to track down and reduce or eliminate the source of the identified pollutants in determining if a permit modification is needed.

#### Schedule of Additional Submittals

A schedule of additional submittals has been included for the following (Appendix Link):

- WET Testing
- WTC Annual Report
- MMP, maintained onsite
- Solvent management plan
- Emerging contaminant short-term monitoring
- Stormwater pollution prevention plan

## **Special Conditions**

In accordance with 40 CFR 433, a solvent management plan is required and must specify "the toxic organic compounds used; the method of disposal used instead of dumping, such as reclamation, contract hauling, or incineration; and procedures for ensuring that toxic organics do not routinely spill or leak into the wastewater."

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# **OUTFALL AND RECEIVING WATER SUMMARY TABLE**

					Water Index No. /	Major /					Critical	Di	lution Ra	tio
Outfall	Latitude	Longitude	Receiving Water Name	Water Class	Priority Waterbody Listing (PWL) No.	Sub Basin	Hardness (mg/L)	1Q10 (MGD)	7Q10 (MGD)	30Q10 (MGD)	Effluent Flow (MGD)	A(A)	A(C)	HEW
001	42° 18' 57" N	75° 24' 18" W	Susquehanna River	В	SR-7 (portion as described) PWL: 0601-0020		130 <sup>8</sup>	49	57	70	0.13 <sup>9</sup>	50:1	100:1	100:1
01A	=	-	Outfall 001	-	Internal Outfall									
01B	•	•	Outfall 001	-	Internal Outfall									
01C	•	•	Outfall 001	-	Internal Outfall	06/01								
002	42° 18' 27" N	75° 24' 5.1" W	Tuibtam 1.17					ISEL	ISEL	ISEL		1:1	1:1	1:1
005	42° 18' 25" N	75° 23' 53" W	Tributary 147		SR-147 and trib.			ISEL	ISEL	ISEL		1:1	1:1	1:1
006	42° 18' 24" N	75° 23' 54" W	to Susquehanna	С	PWL: 0601-0154		-	ISEL	ISEL	ISEL	N/A	1:1	1:1	1:1
007	42° 18' 22" N	75° 23' 58" W	River		1 VVL. 0001-0134			ISEL	ISEL	ISEL		1:1	1:1	1:1
800	42° 18' 34" N	75° 23' 54" W	TAIVOI					ISEL	ISEL	ISEL		1:1	1:1	1:1

# **POLLUTANT SUMMARY TABLES**

# Outfall 01A

Outfall #	01A	Descriptio	n of Was	tewater: m	netal finishing	process w	astewater: cyani	de bearing	baths and	rinses					
Outian #	UIA	Type of Tr	eatment:	cyanide de	estruction an	d chlorinati	on								
			Existi	ng Dischar	rge Data	-	TBELs		Wa	ter Quality	/ Data & W0	QBELs			
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>10</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
General Notes: locations are be					internal locat	ions; there	fore, DMR data is	not availa	ıble; howeve	er, the per	mittee samp	led as part of	this applica	ition. I	nternal sampling
	mg/L	Monthly Avg	-	-	-	0.65	USEPA ELG	-	-	-	-	-	-	-	TBEL
Total Cyanide	IIIg/L	Daily Max	-	-	-	1.20	BPT	-	-	-	-	-	-	-	IBLE
	sample	s may be ta	ken of the	e final efflu		nt limitation									ns. Alternatively, flow." TBELs are

<sup>&</sup>lt;sup>8</sup> Ambient hardness data obtained from average of 27 rotating integrated basin sampling (RIBS site 06-USSQ-154.7) ambient samples.

<sup>&</sup>lt;sup>9</sup> Long-term average flow calculated from data from 05/01/2017 to 05/31/2022.

<sup>&</sup>lt;sup>10</sup> Existing Effluent Quality: Daily Max = 99% lognormal; Monthly Avg = 95% lognormal (for datasets with ≤3 nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with >3 nondetects)

USEPA Major/Class 03 Industrial

Permittee: Amphenol Corporation Facility: Amphenol Corporation - Aerospace Operations SPDES Number: NY0003824

Date: October 5, 2023 v.1.11 Permit Writer: Catherine G. Winters

Outfall #	01A	Descriptio	n of Was	tewater: n	netal finishing	process w	astewater: cyani	de bearing	baths and	rinses					
outiun "	0171	Type of Tr	eatment:	cyanide de	estruction an	d chlorinati	on								
			Existi	ng Dischai	ge Data	-	TBELs		Wa	ater Quality	/ Data & Wo	QBELs	1		Dania fam
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>10</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
Fluoride	mg/L	Daily Max	-	2.56	1/0										No Limitation
riuoride	There is	s no applica	ble TBEL	. The need	l for a WQBE	L will be as	ssessed at Outfal	l 001.							
Formaldehyde	mg/L	-	-	0.345	1/0	-	-	-	-	-	-	-	-	-	No Limitation
ronnaldenyde	There is	s no applica	ble TBEL	and no W	QS for Class	B waters.									
Total Iron	mg/L	-	-	0.200	1/0	-	-	-	-	-	-	-	-	-	No Limitation
Total IIOn	There is	s no applica	ble TBEL	and no W	QS for Class	B waters.									
	mg/L	Monthly Avg	-	-	-	-	-	-	-	-	-	-	-	-	No Limitation
Total Lead	J.	Daily Max	-	0.009	1/0	-		-	-	-	-	-	-	-	
	There is	s no applica	ble TBEL	. Monitorin	g will be add	ed to Outfa	II 001 to assess t	he need fo	or WQBEL o	during the	next permit	review.			
Total	mg/L	-	-	1.35	1/0	-	-	-	-	-	-	Ī	-	-	No Limitation
Magnesium	There is	s no applica	ble TBEL	and no W	QS for Class	B waters.									
Total Residual	mg/L	Daily Max	-	1.68	1/0	-	-	-	-	-	-	-	-	-	No Limitation
Chlorine	There is	s no applica	ble TBEL	. Monitorin	g will be add	ed to Outfa	Il 001 to assess t	he need fo	or WQBEL o	during the	next permit	review.			
Sulfate	mg/L	-	-	147	1/0	-	-	-	-	-	-	-	-	-	No Limitation
(as SO <sub>4</sub> )	There is	s no applica	ble TBEL	and no W	QS for Class	B waters.									
Oulfite / 00 \	mg/L	Daily Max	-	1.0	1/0	-	-	-	-	-	-	-	-	-	No Limitation
Sulfite (as SO <sub>3</sub> )	There is	s no applica	ble TBEL	. Monitorin	g will be add	ed to Outfa	Il 001 to assess t	he need fo	or WQBEL o	during the	next permit	review.	•	-	
T (   T'	mg/L	-	-	0.107	1/0	-	-	-	-	-	-	-	-	-	No Limitation
Total Tin	There is	s no applica	ble TBEL	and no W	QS for Class	B waters.	•	•					1		•

Facility: Amphenol Corporation - Aerospace Operations

SPDES Number: NY0003824

USEPA Major/Class 03 Industrial

Outfall 01B

Date: October 5, 2023 v.1.11 Permit Writer: Catherine G. Winters

Water Quality Reviewer: Catherine G. Winters

0.45.11.4	045	Descriptio	n of Wast	t <b>ewater:</b> m	netal finishin	g process w	astewater: hexav	valent chro	omium bear	ing baths a	and rinses				
Outfall #	01B	Type of Tr	eatment:	hexavalen	t chromium	reduction ar	nd settling								
			Existi	ng Dischar	ge Data	-	ГВELs		Wa	ater Qualit	y Data & Wo	QBELs			
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>11</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
General Notes: locations are be				monitor at	internal loca	tions; theref	fore, DMR data is	not availa	ible; howev	er, the per	mittee samp	oled as part of	this applica	ition. I	nternal sampling
	mg/L	Monthly Avg	-	-	-	0.10	TOGS 1.2.1	-	-	-	-	-	-	-	Monitor
Total Cadmium		Daily Max	-	1	-	0.20	TOGS 1.2.1	-	-	-	-	-	-	-	Monitor
							D: Chemical tre								
	ma/L	Monthly Avg	*	-	-	0.050	TOGS 1.2.1	-	-	-	_	-	-	-	TBEL
Hexavalent Chromium	1119/2	Daily Max	*	-	-	0.10	TOGS 1.2.1	-	-	-	-	-	-	-	TBEL
Chiomani							n D: Chemical to the permit for O							this c	utfall, this is the
	mg/L	Monthly Avg	-	-	-	-	-	_	-	-	_	-	-	-	No Limitation
Total Chromium		Daily Max	-	-	-	0.50	TOGS 1.2.1	-	-	-	-	-	-	-	TBEL
Onioniani							Chemical treatme utfall 01B. WQBE						outfall, this	is the	chromium waste
	mg/L	Monthly Avg	-	ı	•	-	-	-	-	-	-	-	-	-	No Limitation
Total Copper		Daily Max	-	-	-	0.50	TOGS 1.2.1	-	-	-	-	-	-	-	Monitor
							Chemical treatm utfall 01B. WQBE						outfall, this i	s the	chromium waste
0-1	cpu	Daily Max	-	15	1/0	-	-	-	-	-	-	-	-	-	No Limitation
Color	There i	s no applica	ble TBEL.	Monitorin	g will be add	led to Outfa	II 001 to assess t	he need fo	or WQBEL	during the	next permit	review.	•		
	mg/L	Monthly Avg	-	-	-	0.40	TOGS 1.2.1	-	-	-	-	-	-	-	Monitor
Total Cyanide	illy/L	Daily Max	-	-	-	0.80	TOGS 1.2.1	-	-	-	-	-	-	-	Monitor
							D: Chemical trea 1B to assess the								it is expected to (001).

<sup>11</sup> Existing Effluent Quality: Daily Max = 99% lognormal; Monthly Avg = 95% lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal (for datasets with  $\leq 3$  nondetects); Daily Max = 99% delta-lognormal (for datasets with delta-lognormal (for datasets with > 3 nondetects)

USEPA Major/Class 03 Industrial

Date: October 5, 2023 v.1.11 Permit Writer: Catherine G. Winters

045-11.4	040	Descriptio	n of Wast	t <b>ewater:</b> m	netal finishin	g process w	astewater: hexav	alent chro	mium beari	ing baths a	and rinses				
Outfall #	01B	Type of Tr	eatment:	hexavalen	t chromium i	reduction ar	nd settling								
			Existir	ng Dischai	rge Data	-	ΓBELs		Wa	ater Quality	y Data & WO	QBELs			
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>11</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
Formaldehyde	mg/L	Daily Max	-	0.063	1/0	-	-	-	-	-	-	-	-	-	No Limitation
i omiaidenyde	There i	s no applica	ble TBEL	and no W	QS for Class	B waters.									
	mg/L	Monthly Average		-	-	2.0	TOGS 1.2.1	-	-	-	-	-	-	-	TBEL
Total Iron	5	Daily Max	-	0.058	1/0	4.0	TOGS 1.2.1	-	-	-	-	-	-	-	TBEL
	TBELs	are consiste	ent with TO	OGS 1.2.1	Attachment	C, Column	D: Chemical trea	tment and	are being a	added to C	outfall 01B.				
	mg/L	Monthly Avg	-	-	-	0.20	TOGS 1.2.1	-	-	-	-	-	-	-	TBEL
Total Lead	Ü	Daily Max	-	0.016	1/0	0.40	TOGS 1.2.1	-	-	-	-	-	-	-	TBEL
	TBELs (001).	are consiste	ent with TO	OGS 1.2.1	Attachment	C, Column	D: Chemical trea	tment and	are being a	added to O	utfall 01B. V	VQBELs will	be assesse	d at th	e external outfall
Total	mg/L	Daily Max	-	0.215	1/0	-	-	-	-	-	-	-	-	-	No Limitation
Magnesium	There i	s no applica	ble TBEL	and no W	QS for Class	B waters.									
Total	mg/L	Monthly Average	-	-	-	1.0	TOGS 1.2.1	-	-	-	-	-	-	-	TBEL
Manganese		Daily Max	-	0.247	1/0	2.0	TOGS 1.2.1	-	-	-	-	-	-	-	TBEL
	TBELs	are consiste	ent with To	OGS 1.2.1	Attachment	C, Column	D: Chemical trea	tment and	are being a	added to C	outfall 01B.				
	mg/L	Monthly Avg	-	-	-	1.0	TOGS 1.2.1	-	-	-	-	-	-	-	Monitor
Total Nickel	,	Daily Max	-	-	-	1.3	TOGS 1.2.1	-	-	-	-	-	-	-	Monitor
							D: Chemical treato assess the fut								
	mg/L	Monthly Avg	- -	-	-	0.050	TOGS 1.2.1	-	-	-	-	-	-	-	Monitor
Total Silver	IIIg/L	Daily Max	-	-	-	0.10	TOGS 1.2.1	-	-	-	-	-	-	-	Monitor
							D: Chemical treato assess the fut								
Sulfate		Daily Max	-	1030	1/0	-	-	-	-	-	-	-	-	-	No Limitation
	There i	s no applica	ble TBEL	and no W	QS for Class	B waters.				ı			1		
Sulfite (as SO <sub>3</sub> )	mg/L	Daily Max	-	15	1/0	-	-	-	-	-	-	-	-	-	No Limitation
Camic (45 503)	There i	s no applica	ble TBEL.	. Monitorin	g will be add	ed to Outfa	ll 001 to assess t	the need fo	or WQBEL o	during the	next permit	review.			

USEPA Maior/Class 03 Industrial

Date: October 5, 2023 v.1.11 Permit Writer: Catherine G. Winters

	,	o oo maac													
Outfall #	01B	Descriptio	n of Was	tewater: m	netal finishing	process w	astewater: hexa	valent chro	mium beari	ng baths a	and rinses				
		Type of Tr	eatment:	hexavalen	t chromium r	eduction ar	nd settling								
			Existi	ng Dischar	ge Data	1	ΓBELs				/ Data & WC				
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>11</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
	mg/L	Monthly Avg	-	-	-	-	-	-	-	-	-	-	-	-	No Limitation
Total Zinc		Daily Max	-	-	-	0.40	TOGS 1.2.1	-	-	-	-	-	-	-	Monitor
							D: Chemical treate to assess the fut								s expected to be 1).

Facility: Amphenol Corporation - Aerospace Operations

SPDES Number: NY0003824 USEPA Major/Class 03 Industrial

Outfall 01C

Date: October 5, 2023 v.1.11 Permit Writer: Catherine G. Winters

Water Quality Reviewer: Catherine G. Winters

0.45.11.4	040	Descriptio	n of Was	tewater: m	netal finishin	g process w	vastewater: low p	H baths ar	nd rinses						
Outfall #	01C	Type of Tr	eatment:	equalization	on prior to m	xing with of	ther internal wast	e streams							
			Existi	ng Dischar	ge Data	-	ГВELs		Wa	iter Quality	y Data & WO	QBELs			D . (
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>12</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
General Notes:	Permitt	ee does not	currently	monitor at	internal loca	tions; there	fore, DMR data i	s not avail	able; howe	er, the pe	rmittee sam	pled as part o	of this applic	cation	
Total Beryllium	mg/L	Daily Max	-	0.014	1/0	ı	-	-	-	-	-	ı	-	ı	No Limitation
Total Beryllidili	There i	s no applica	ble TBEL	. Monitorin	g will be add	ed to Outfa	ll 001 to assess t	he need fo	or WQBEL o	during the	next permit	review.			
Total Lead	mg/L	Daily Max	-	0.027	1/0	-		-	-	-	-	ı	-	-	No Limitation
Total Lead	There is	s no applica	ble TBEL	. Monitorin	g will be add	ed to Outfa	ll 001 to assess t	he need fo	or WQBEL o	during the	next permit	review.			
Total Residual	mg/L	Daily Max	-	0.03	1/0	ı	-	ı	-	-	-	ı	-	ı	No Limitation
Chlorine	There is	s no applica	ble TBEL	. Monitorin	g will also be	added to (	Outfall 001 to ass	ess the ne	ed for WQE	BEL during	the next pe	ermit review.			
Fluoride	mg/L	Daily Max	-	99	1/0										No Limitation
riuoride	There is	s no applica	ble TBEL	. The need	l for a WQBE	L will be as	ssessed at Outfal	l 001.							
Sulfate	mg/L	-	-	1940	1/0	-	-	-	-	-	-	Ī	-	-	No Limitation
(as SO <sub>4</sub> )	There i	s no applica	ble TBEL	and no wa	ater quality st	andard (W	QS) for Class B v	vaters.							
Total Iron	mg/L	-	-	0.318	1/0	-	-	-	-	-	-	ı	-	1	No Limitation
Total IIOII	There is	s no applica	ble TBEL	and no W	QS for Class	B waters.									
Total	mg/L	-	-	3.22	1/0	-	-	-	-	-	-	•	-	-	No Limitation
Magnesium	There i	s no applica	ble TBEL	and no W	QS for Class	B waters.									
Total Tin	mg/L	-	-	1.2	1/0	ı	-	ı	-	-	-	ı	-	ı	No Limitation
Total Till	There is	s no applica	ble TBEL	and no W	QS for Class	B waters.									
Formaldehvde	mg/L	Daily Max	_	0.165	1/0	-	-	-	-	-	-	-	-	-	No Limitation
romaidenyde	There i	s no applica	ble TBEL	and no W	QS for Class	B waters.									

<sup>&</sup>lt;sup>12</sup> Existing Effluent Quality: Daily Max = 99% lognormal; Monthly Avg = 95% lognormal (for datasets with ≤3 nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with >3 nondetects)

Facility: Amphenol Corporation - Aerospace Operations

SPDES Number: NY0003824 USEPA Major/Class 03 Industrial

Outfall 001

Date: October 5, 2023 v.1.11 Permit Writer: Catherine G. Winters

Water Quality Reviewer: Catherine G. Winters

Outfall #	001	Descriptio	n of Was	tewater: m	etal finishin	g process w	astewater from (	Outfalls 01	A, 01B, and	1 01C					
Outfall #	001	Type of Tr	eatment:	pH adjustr	nent, floccul	ation and cl	arification, sand	filtration							
			Existi	ng Dischar	ge Data	-	TBELs		Wa	ater Qualit	y Data & W	QBELs			Basis for
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>13</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Permit Requirement
							tained from Discown below repres				ded by the p	ermittee. All	applicable v	vater o	quality standards
	MGD	GD Avg Monitor O.13 Actual Average 61/0 Narrative: No alterations that will impair the waters for their best usages.													Monitor
Flow Rate		Daily Max	Daily Max Monitor Actual Actual Average their best usages.  Actual Average their best usages.											-	Monitor
	Flow w	ow will continue to be monitored for informational purposes and to calculate pollutant loadings.													
	SU	Minimum	6.0	6.3 Actual Min	61/0	6.0	USEPA ELG	8.2 <sup>14</sup>	_	6.5 – 8.5	Range	Select	6 NYCRR		TBEL
pН		Maximum	9.0	8.8 Actual Max	61/0	9.0	BPT						703.3		
	Consis the WC		CFR 433,	, TBELs ref	flect the indu	ıstry-specifi	c treatment techr	nology. Gi	iven the av	ailable dilu	tion an efflu	ent limitation	equal to the	e TBE	L is protective of
	°F	Daily Max	90	87 Actual Max	61/0	-	*	75	75	temperat stream s more tha	ure at the s hall not be r n 90F at an	aised to y point and	6 NYCRR	-	Antibacksliding
Temperature		Monthly Avg	Monitor	59 Actual Average	61/0	-	-	-	-	more tha	n 5F over thure that exis		704.2	-	Monitor
	calcula cfs; an	ted using ar	n energy b average)	alance eque	uation and th w = 0.20 cfs	e following	ata (Site ID 06-US assumptions: eff o reasonable pot	luent temp	perature = 9	00 °F; amb	ient temper	ature = 75 °F;	critical stre	am flo	w (7Q10) = 88

<sup>13</sup> Existing Effluent Quality: Daily Max = 99% lognormal; Monthly Avg = 95% lognormal (for datasets with ≤3 nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with >3 nondetects)

<sup>&</sup>lt;sup>14</sup> Ambient pH obtained from 80th percentile of 22 RIBS samples collected at 06-USSQ-154.7 and 06-USSQ-149.8

Date: October 5, 2023 v.1.11 Permit Writer: Catherine G. Winters

Water Quality Reviewer: Catherine G. Winters Full Technical Review

USEPA Major/Class 03 Industrial

0021711110	1017 0100	Description		tewater: m	netal finishing		astewater from (	Outfalls 01	A O1R and	L01C					
Outfall #	001	-				· · · · · · · · · · · · · · · · · · ·	arification, sand		-, 01D, and	1010					
		Type of 11		•				Illuation			D ( 0.14/	0051			
Effluent		Averaging	Existi	ng Dischar I			ΓBELs		1	iter Quality	y Data & Wo	QBELS	1		Basis for
Parameter	Units	Period	Permit Limit	Existing Effluent Quality <sup>13</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Permit Requirement
Dissolved	mg/L	Daily Min	-	-	-	-	-	-	4.8 Critical Point	(Non- Trout) 4.0 mg/L	Narrative	No reasonable potential	6 NYCRR 703.3	-	No Limitation
Oxygen (DO)	both Si = 2.0 m Effluen Reach	The downstream DO concentration was modeled using the Streeter-Phelps equations and the following assumptions. The primary reach of the model included data from both Sidney WPCP (NY0029271) and Amphenol Aerospace since the effluent from the two facilities comingles prior to discharge into the Susquehanna River. Effluent DO = 2.0 mg/L (assumed value consistent with TOGS 1.3.1D), Effluent BOD <sub>5</sub> = 79 mg/L (current Sidney permit limit of 45 mg/L plus Amphenol application data of 34 mg/L), Effluent NOD = 358 mg/L (calculated from maximum reported Sidney ammonia of 19 mg/L as NH3-N and Amphenol maximum reported ammonia of 30 mg/L as NH3-N). Reach Description: The model included the Bainbridge WWTP (NY0030597) ~5 miles downstream and continued for ~ 2 miles downstream of Bainbridge WWTP. The model showed that the existing Sidney permit limits and Amphenol conditions are adequate for maintaining downstream water quality.													
	,,	Monthly Avg	-	-	-	-	-								
5-day	mg/L	7 Day Avg	-	34*	1/0	-	-					Nie			
Biochemical Oxygen	lbs/d	Monthly Avg	-	-	-	-	-	] -	See D	issolved C	Oxygen	No reasonable potential	6 NYCRR 703.3	-	No Limitation
Demand (BOD₅)	IDS/G	7 Day Avg	-	49*	1/0	-	-					potential			
(2023)	% Rem	Minimum	-	-	-	ı	-								
	See jus	stification for	Dissolve	d Oxygen.	There is no	applicable 1	BEL and no reas	sonable po	tential; the	refore, no	limitation is	proposed.			
		Monthly Avg	-	-	-	31	USEPA ELG BPT								TBEL
	mg/L	Daily Max	-	59*	299	60	USEPA ELG BPT	Narrativo	· Nono from	, cowago	industrial w	astos or			IBEL
Total	lbs/d	Monthly Avg	26	35	61/0	33	-	other was		l cause de	position or i		6 NYCRR 703.2	-	Existing Limit
Suspended Solids (TSS)	150,4	Daily Max	55	96	61/0	65	-			asagss.					Exioung Emili
( 3)	% Rem	Minimum	-			-	-								No Limitation
	Concer		Ls are co	nsistent wi			40 CFR 433. Exi	sting load l	imits are m	ore stringe	ent than the	ELG limitatio	ns expresse	ed as a	a load;

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Water Quality Reviewer: Catherine G. Winters

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Description of Wastewater: metal finishing process wastewater from Outfalls 01A, 01B, and 01C Outfall # 001 Type of Treatment: pH adjustment, flocculation and clarification, sand filtration Existing Discharge Data **TBELs** Water Quality Data & WQBELs Basis for Effluent Averaging # of Data Existing **Ambient** Projected Units MLPermit Permit WQ Std. Basis for Calc. Parameter Period Points WQ Type Effluent Limit Instream Basis Bkad. Requirement WOBFI Limit Detects / Nonor GV WOBFI Quality<sup>13</sup> Conc. Conc. Detects Narrative: None from sewage, industrial wastes or 6 NYCRR TOGS 1.2.1 mL/L Daily Max 0.1 other wastes that will cause deposition or impair the **TBEL** 703.2 Settleable waters for their best usages Solids Consistent with TOGS 1.2.1 Attachment C, the TBEL is reflective of the treatment technology and is reasonably protective of the WQS. Monthly No 6 NYCRR Avg 17 25/0 0.082 0.30 0.49 A(C) reasonable Monitor 703.5 potential mg/L Nitrogen, Daily Max 115\* 299 No Limitation Ammonia (as N) \*year-round data submitted in application The permittee submitted ammonia data, daily average concentration as a factor of daily average for each month, for November 2016 - October 2021. The WQS for June 1st - Oct. Ammonia was determined from TOGS 1.1.1 from a summer pH of 8.2 (80th percentile of 22 data from multiple RIBS sites) and a temperature of 25 °C (assumed in 31st accordance with TOGS 1.3.1E). The projected instream concentration was calculated using the maximum reported effluent concentration of 17 mg/L and an ambient upstream concentration of 0.082 mg/L. A multiplier of 1.3 was applied to the maximum effluent concentration to account for the number of samples. In accordance with TOGS 1.3.1E, the HEW dilution ratio was applied to calculate the projected instream concentration. A comparison of the projected instream concentration to the WQS indicates no reasonable potential to cause or contribute to a WQS violation. Therefore, no limitation is specified. Monthly No 6 NYCRR 30 35/0 0.082 0.44 0.72 A(C) Avg reasonable Monitor 703.5 potential mg/L Daily Max 115\* 299 No Limitation Nitrogen, Ammonia (as N) \*year-round data The permittee submitted ammonia data, daily average concentration as a factor of daily average for each month, for November 2016 – October 2021. The WQS for Nov. 1st – Mav Ammonia was determined from TOGS 1.1.1 from a summer pH of 8.2 (80th percentile of 22 data from multiple RIBS sites) and a temperature of 10 °C (assumed in 31st

accordance with TOGS 1.3.1E). The projected instream concentration was calculated using the maximum reported effluent concentration of 30 and an ambient upstream concentration of 0.082. A multiplier of 1.2 was applied to the maximum effluent concentration to account for the number of samples. In accordance with TOGS 1.3.1E, the HEW dilution ratio was applied to calculate the projected instream concentration. A comparison of the projected instream concentration to the WQS indicates no

reasonable potential to cause or contribute to a WQS violation. Therefore, no limitation is specified.

<sup>&</sup>lt;sup>15</sup> As recommended from EPA's Technical Support Document, Chapter 3.3

<sup>&</sup>lt;sup>16</sup> As recommended from EPA's Technical Support Document, Chapter 3.3

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Water Quality Reviewer: Catherine G. Winters Full Technical Review

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etal finishing process wastewa	ater from Out	tfalls 01A	, 01B, and	01C								
nent, flocculation and clarificati	tion, sand filtra	ration										
ge Data TBELs			Wa	ter Quality	Data & WO	QBELs			Dania for			
# of Data Points Detects / Non- Detects  # Detects	Basis E	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement			
58/2 Monitor W						n growths of	6 NYCRR	-	Monitor			
58/2 Monitor W		lgae, wee neir best u		nes that w	ill impair the	e waters for	703.2	-	Monitor			
oling and reporting for TKN wil	II be continue	ed in the p	permit and	used to ca	alculate the	Monthly Aver	age Total N	litroge	n.			
60/0 Monitor W	VIP III	-	-	-	-	-	-	-	Monitor			
60/0 Monitor W	VIP III	-	-	-	-	-	-	-	Monitor			
(as N)  Consistent with the Phase III WIP, sampling and reporting for nitrate will be continued in the permit and used to calculate the Monthly Average Total Nitrogen.												
60/0 Monitor W	VIP III	-	-	-	-	-	-	-	Monitor			
	-	-	-	0.100	A(C)	100	6 NYCRR 703.5	-	Monitor			
60/0 Monitor W	VIP III	-	-	-	-	-	-	-	Monitor			
pling and reporting for nitrite w ng added so the need for a W						Monthly Ave	erage Total	Nitrog	∍n.			
60/0 Monitor W	VIP III							-	Monitor			
60/0 Monitor W	VIP III	arrative:	None in an	nounts tha	t will result i	n growths of	0.111/0000	-	Monitor			
60/0 Monitor W	alg		eds and slin		ill impair the		6 NYCRR 703.2	-	Monitor			
58/0 <b>90,000</b> W	VIP III							-	TMDL			
<u> </u>		WIP III	WIP III	WIP III	WIP III	WIP III	WIP III	WIP III				

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		Descriptio		tewater: n	netal finishing	g process w	astewater from (	Outfalls 01	A, 01B, and	01C					
Outfall #	001	Type of Tr	eatment:	pH adjusti	ment, floccula	ation and cl	arification, sand	filtration							
			Existi	ng Dischai	rge Data	7	ΓBELs		Wa	ater Quality	y Data & W0	QBELs			Basis for
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>13</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Permit Requirement
	mg/L	Monthly Avg	Monitor	2.8	61/0	Monitor	WIP III								Monitor
	lb/d	Monthly Avg	Monitor	3.0	61/0	Monitor	WIP III					in growths of	6 NYCRR		Monitor
Total Phosphorus	lb/mo	Monthly Total	Monitor	110	61/0	Monitor	USEPA ELG BPT	their best		mes that v	vill impair the	e waters for	703.2	-	Monitor
	lb/yr	12 Month Rolling Total	761	760 Actual Max	61/0	761	WIP III							TMDL	
		Total Max Consistent with the Phase III WIP the permit includes a final annual loading limitation of 761 lbs/yr. Interim and final loading limits are provided in <a href="https://creativecommons.org/limits/by/">Chesapeal discussion</a> in this factsheet.												eake Bay TMDL	
	ng/L	D : 14	50	20	50/1	50	ILCA	-	-	0.7	H(FC)	50	GLCA	-	DOW 1.3.10
T-4-1 M	lb/d	Daily Max	0.7	0.062	56/4	-	-	-	-	-	-	-	-	-	Discontinued
Total Mercury	ng/L	12 MRA	-	-	-	20	EEQ	-	-	0.7	H(FC)	12	-	-	DOW 1.3.10
	See Me	ercury section	on of this f	actsheet.				4		•			1		
	,,	Monthly Avg	-	1.76*	299*	-	-	-	-	-	-	-	-	-	Monitor
	mg/L	Daily Max	-	7.37*	299*	-	-	-	-	100 (ionic)	A(C)	NA when pH > 6.5	6 NYCRR 703.5	-	Monitor
Total Aluminum	II- /-I	Monthly Avg	4.4	4.4 Actual Max	58/2	-	-	-	-	-	-	-	-	-	Antibacksliding
	lb/d	Daily Max	8.8	8.1 Actual Max	58/2	-	-	-	-	-	-	-	-	-	Antibacksliding
	At pH le	ess than 6.5	, the pote	ntial for so	ximum reportubility exceedive and will b	eds 100 µg/l	L, which is the w	ater quality	/ standard.	The minim	num pH of th	e receiving w	vater is 7.3;	there	fore, consistent

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		D	£\A/-		- 4-1 E			)K-1! 0.4	A 04E '	040					
Outfall #	001						astewater from C		A, 01B, and	01C					
		Type of Tr	eatment:	pH adjusti	ment, floccula	ation and cl	arification, sand	filtration							
			Existi	ng Dischai	rge Data	٦	ΓBELs		Wa	ater Quality	y Data & Wo	QBELs			Basis for
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>13</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Permit Requirement
	ma/l	Monthly Avg	-	0.044*	299*	0.26	USEPA ELG BPT	-	-	0.005	H(WS)	0.50	6 NYCRR 703.5	1	TBEL
	mg/L	Daily Max	-	0.473*	299*	0.69	USEPA ELG BPT	-	-	0.0026	A(C)	0.28	6 NYCRR 703.5	-	WQBEL
	lb/d	Monthly Avg	0.3	0.084	61/0	0.28	-	-	-	-	-	0.54	-	1	Calculation
	ID/U	Daily Max	0.7	0.40**	61/0	0.75	-	-	-	-	-	0.30	-	-	Calculation
Total Cadmium	**Actual	al maximum:  Maximum:  ntration was	reported very many transfer to the WQB assumed.	was 0.21 lt EL was ca . A metals	alculated fror translator of	n the chror 1.114 was	cation  nic water quality applied to conve ulated WQBEL; tl	rt betweer	n the total a	ind dissolv	ed form in	accordance v	vith the EPA	Doci	ument 823-B-96
	Month concer	e load limit is  Iy Average  Itration was  BEL is more	<ul><li>being de</li><li>The WC assumed protective</li></ul>	creased back OBEL was A metals than the V	ased on the \ calculated fi translator of VQBEL and o	WQBEL cor rom the HE 1.0 was app existing limi	ncentration and c EW water quality olied to convert b it; therefore, a co ent long-term ave	urrent long standard etween the	g-term avera and throug e total and on Iimit consi	age (LTA) gh applyin dissolved f	flow. g the HEW form in acco	dilution ration	o. A negligil the EPA Doo	ble up	ostream ambier nt 823-B-96-007
	mg/L	Monthly Avg	-	-	-	-	-	-	-	-	-	-	-	1	Monitor
	IIIg/L	Daily Max	-	-	-	-	-	-	-	0.016	A(A)	0.81	6 NYCRR 703.5	ı	WQBEL
Hexavalent Chromium	lb/d	Monthly Avg	0.11	0.027	29/31	-	-	-	-	-	-	-	-	-	Antibacksliding
	ID/U	Daily Max	0.22	0.059	29/31	-	-	-	-	-	-	0.88	-	-	Antibacksliding
	The W	OBEL Was a	alculated	from the a	cuto water a	ality stands	ard and through a	polying the	a acuta dilut	tion ratio /	\ nogligible	unctroom om	hiont conco	otratio	n waa aaauma

The WQBEL was calculated from the acute water quality standard and through applying the acute dilution ratio. A negligible upstream ambient concentration was assumed. A metals translator of 1.018 was applied to convert between the total and dissolved form in accordance with the EPA Document 823-B-96-007. The existing daily maximum load limit is more stringent than the WQBEL converted to a load. There is not currently a concentration limit in the permit. The existing load limitations will be maintained. A daily maximum concentration limit equal to the WQBEL will be added to protect water quality. Monthly average concentration will be monitored.

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Outfall #	001	Descriptio	n of Was	tewater: m	netal finishing	process w	astewater from C	Outfalls 01	A, 01B, and	01C					
Outfall #	001	Type of Tr	eatment:	pH adjustr	ment, floccula	ation and cl	arification, sand	filtration							
			Existi	ng Dischar	ge Data		TBELs		Wa	ter Quality	Data & WO	QBELs			Basis for
Effluent Parameter	Units	Averaging Period	Permit	Existing Effluent Quality <sup>13</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Permit Requirement
	mg/L	Monthly Avg	-	0.022*	299*	1.71	USEPA ELG BPT	-	-	0.050	H(WS)	5.0	6 NYCRR 703.5	-	TBEL
	IIIg/L	Daily Max	ı	0.510*	299*	2.77	USEPA ELG BPT	-	-	0.092	A(C)	11	6 NYCRR 703.5	-	TBEL
Total	lb/d	Monthly Avg	3.3	0.040	57/4	1.9	-	-	-	-	1	5.4	1	-	Calculation
Chromium	ib/u	Daily Max	4.7	0.17	60/1	3.0	-	-	-	-	-	12	-	-	Calculation

\*Long-term daily average and daily maximum reported in application

Consistent with 40 CFR Part 433, the TBEL is reflective of USEPA ELG BPT. The TBEL is more stringent than the WQBEL, and the load equivalent to the TBEL concentration, calculated using the LTA flow, is more stringent than the existing load limit; therefore, the TBEL concentration limit is being added and the load limit is being reduced.

mg/L	Monthly Avg	-	0.186	299*	2.07	USEPA ELG BPT	-	-	0.20	H(WS)	20	6 NYCRR 703.5	1	Monitor
IIIg/L	Daily Max	-	1.365	299*	3.38	USEPA ELG BPT	-	-	0.017	A(C)	0.90	6 NYCRR 703.5	-	WQBEL
lb/d	Monthly Avg	3.4	0.30	61/0	2.2	-	-	-	-	-	22	-	-	Calculation
ib/u	Daily Max	4.4	1.1	61/0	3.7	-	-	-	-	-	0.97	-	-	WQBEL

Total Copper

\*Long-term daily average and daily maximum reported in application Consistent with 40 CFR Part 433, the TBELs are reflective of USEPA ELG BPT.

Daily Maximum: The WQBEL was calculated from the chronic water quality standard and through applying the chronic dilution ratio. A negligible upstream ambient concentration was assumed. A metals translator of 1.042 was applied to convert between the total and dissolved form in accordance with the EPA Document 823-B-96-007. The existing permit limit and TBEL are greater than the calculated WQBEL; therefore, the concentration limit equal to the WQBEL is being added to protect water quality and the load limit is being decreased using the WQBEL concentration and current LTA flow. Compliance with the daily maximum WQBEL will ensure compliance with both the monthly average and daily maximum ELG.

Monthly Average: The WQBEL was calculated from the HEW water quality standard and through applying the HEW dilution ratio. A negligible upstream ambient concentration was assumed. A metals translator of 1.0 was applied to convert between the total and dissolved form in accordance with the EPA Document 823-B-96-007. The TBEL concentration, consistent with 40 CFR 433, and equivalent load are more protective than the WQBEL and existing limit; therefore, concentration limit equal to the TBEL is being added to the permit and the load limit is being decreased using the TBEL concentration and current LTA flow.

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USEPA Ma	jor/Clas	s 03 Indus	trial			Full Techi	nical Review								
Outfall #	001	Descriptio	n of Was	tewater: n	netal finishin	g process w	astewater from 0	Outfalls 01	A, 01B, and	01C					
Outfall #	001	Type of Tr	eatment:	pH adjusti	ment, floccul	ation and cl	arification, sand	filtration							
			Existi	ng Dischai	rge Data	-	ГВELs		Wa	iter Quality	y Data & WO	QBELs			Dania fam
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>13</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
		Daily Max	-	-	-	1	-	-	-	0.0052 0.022	A(C) A(A)	*	-	ı	Monitor
Free Cyanide		Daily Max	-	-	-	-	-	-	-	-	-	-	-	-	Monitor
<b>.</b>	(WQBE	EL = 0.52 m	g/L); how	ever, mon	itoring is bei	ng added ir	tial. The current to accordance wit atershed analysis	th 6 NYCR	R Part 750	-1.13. Ádo	ditionally, a	maximum da	aily load will		
	mg/L	Monthly Avg	-	0.017*	299*	-	-	-	-	9.0	H(WS)	900	6 NYCRR 703.5	-	WQBEL
	ling/L	Daily Max	-	0.664*	299*	-	-	-	-	-	-	-	-	-	Monitor
Fotal Cyanide	lb/d	Monthly Avg	0.6	0.021	33/27	0.70	-	-	-	-	-	980	-	1	Existing Limit
Total Oyalliac	ID/G	Daily Max	1.2	0.11	33/27	1.3	-	-	-	-	-	-	-	-	Existing Limit
	Consistant mo	tent with 40 re stringent L is being ac Monthly	CFR Part	: 433.12(c) loads equi		will be appli WQBEL; th	cation led after cyanide herefore, the exis  USEPA ELG BPT								
	mg/L	Avg Daily Max	-	<0.005	0/1	0.69	USEPA ELG BPT	-	-	0.005	A(C)	0.67	6 NYCRR 703.5	-	WQBEL
	lb/d	Monthly Avg	-	-	-	-	-	-	-	-	-	-	-	-	Monitor
	ID/U	Daily Max	-	-	-	-	-	-	-	-	-	-	-	-	Monitor
Total Lead	<b>Month</b> l concen	ly Average tration was	: The WC assumed.	DBEL was	calculated f translator of	rom the HI 1.0 was ap	ISEPA ELG BPT  Water quality plied to convert be BEL is being adde	y standard between the	e total and o	dissolved t		rdance with	the EPA Do		

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Outfall #	001	Descriptio	n of Was	t <b>ewater:</b> m	netal finishinç	g process w	astewater from 0	Outfalls 01	A, 01B, and	101C					
	001	Type of Tr	eatment:	pH adjustr	nent, floccul	ation and cl	arification, sand	filtration							
			Existi	ng Dischar	ge Data	-	TBELs		Wa	ater Qualit	y Data & W0	QBELs			Dania far
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>13</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
	mg/L	Monthly Avg	-	3.095*	299*	2.38	USEPA ELG BPT	-	-	100	H(WS)	10	6 NYCRR 703.5	-	TBEL
	IIIg/L	Daily Max	-	0.277*	299*	3.98	USEPA ELG BPT	-	-	0.065	A(C)	6.5	6 NYCRR 703.5	-	TBEL
	lb/d	Monthly Avg	4.8	0.53	61/0	2.6	-	-	-	-	-	11	-	-	Calculation
	ib/ G	Daily Max	8.7	2.0	61/0	4.3	-	-	-	-	-	7.1	-	-	Calculation
	Daily I	A-1:1	14/05												
	concer 007.	tration was ELs are mo 「BEL, calcul	assumed. re stringei	A metals	translator of WQBELs; th	1.003 was	nic water quality applied to conve	ert betweer	n the total a	ind dissolv	ved form in a	accordance v	with the EPA	N Doci	ıment 823-B-96
	concer 007. The TE to the	tration was BELs are mo	assumed. re stringei	A metals	translator of WQBELs; th	1.003 was	applied to conve e concentration T USEPA ELG BPT	ert betweer	n the total a	ind dissolv	ved form in a	accordance v	eing reduced  6 NYCRR 703.5	N Doci	ıment 823-B-96
	concer 007.	BELs are mo BEL, calcul Monthly Avg Daily Max	assumed. re stringei	A metals  It than the the curre	translator of WQBELs; th nt LTA flow.	1.003 was	applied to conve	ert betweer	n the total a	and dissolv	ved form in a	accordance v I limits are be	eing reduced	N Doci	ument 823-B-96
	concer 007. The TE to the	ELs are mo BEL, calcul Monthly Avg	assumed. re stringei	A metals nt than the g the curre 0.010*	translator of WQBELs; tr nt LTA flow. 299*	1.003 was nerefore, the	e concentration T  USEPA ELG  BPT  USEPA ELG	ert betweer	n the total a	and dissolv	ved form in a	accordance v I limits are be	eing reduced  6 NYCRR  703.5  TOGS	N Doci	e load equivalent
	concer 007. The TE to the 1 mg/L lb/d	ELS are mo BEL, calcul Monthly Avg Daily Max Monthly Avg Daily Max	re stringer ated using 0.4 0.8	A metals  Int than the gathe curre  0.010*  0.064*  0.015  0.48	translator of WQBELs; tr nt LTA flow. 299* 299*	0.24 0.43 0.26 0.47	applied to conve	ert betweer	n the total a	and dissolv	ved form in a	I limits are be	eing reduced  6 NYCRR  703.5  TOGS	to the	e load equivalen  TBEL  TBEL

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Outfall #	001	Descriptio	on of Was	tewater: n	netal finishin	g process w	astewater from (	Outfalls 01	A, 01B, and	101C					
Julium "	001	Type of Tr	eatment:	pH adjusti	ment, floccul	ation and cl	arification, sand	filtration							
			Existi	ng Discha	rge Data	-	ΓBELs		Wa	ater Quality	y Data & Wo	QBELs			Dania far
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>13</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
	mg/L	Monthly Avg	-	0.059*	299*	1.48	USEPA ELG BPT	-	-	-	-	-	-	•	TBEL
	mg/L	Daily Max	-	0.819*	299*	2.61	USEPA ELG BPT	-	-	0.15	A(A)	7.5	6 NYCRR 703.5	-	TBEL
	lb/d	Monthly Avg	3.1	0.13	60/1	1.6	-	-	-	-	-	220	-	ı	Calculation
Total Zinc		Daily Max	5.8	0.75	61/0 ximum repor	2.8	ı	-	-	-	-	8.1	-	ı	Calculation
		d equivalent Monthly			e WQBELs ar ated using th		USEPA ELG	1				and the existir ge, industrial		s are l	peing reduced to
		d equivalent				e current L	TA flow.	1					ig load iii iii	aici	
	mg/L	Avg Daily Max				15	BPT TOGS 1.2.1		r other wast			nor globules	6 NYCRR 703.2	-	TBEL
Oil & Grease	of 52 m	l <u> </u>	aily maxim	um limitati		ge TBEL is ve of both t	reflective of USE he daily maximu								mum BPT TBEL
Total Toxic	mg/L	Daily Max	-	-	-	2.13	USEPA ELG BPT	-	-	-	-	-	-	-	TBEL
Organics	Consis	tent with 40	CFR Part	433, the 1	ΓBEL is reflec	ctive of USE	PA ELG BPT; th	erefore, th	ie TBEL is s	specified.					
Chloroform	μg/L	Daily Max	50-AL	140	20/0	-	-	-	-	-	-	-	_	-	Discontinued
Cillorolomi	There i	s no Class E	B chlorofo	rm standa	rd; therefore,	the action	level is being ren	noved.							
Methylene		Daily Max		8.8	6/14	-	-	-	0.13	200	H(FC)	No reasonable potential	6 NYCRR 703.5	ı	Discontinued
Chloride		ojected instro ommended i					maximum reporte		concentrati	on of 6.4 a	and negligibl	le ambient up			tion. A multiplier

USEPA Major/Class 03 Industrial

Date: October 5, 2023 v.1.11 Permit Writer: Catherine G. Winters

,		Description		tewater: m	netal finishing		astewater from (	Outfalls 01	A, 01B, and	01C					
Outfall #	001	Type of Tr	reatment:	pH adjustr	nent, floccul	ation and cl	arification, sand	filtration							
			Existi	ng Dischar	ge Data	-	ΓBELs		Wa	ter Qualit	y Data & W	QBELs			D : (
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>13</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
Trichloroethylene	μg/L	Daily Max		1.1	4/16	-	-	-	0.02	40	H(FC)	No reasonable potential	6 NYCRR 703.5	ı	Discontinued
Tricilloroethylene	as reco	mmended i	in EPA's T	echnical S	Support Docu	ıment Chap	naximum reporte ter 3.3, of 1.7 wa easonable poten	as applied	to the proje	cted efflue	ent to accou	int for the nur	nber of sam	ples.	A comparison of
Additional Poll	utants I	Detected													
Total Residual	mg/L	Daily Max	-	<0.02	0/1	-	-	-	-	-	_	-	-	-	Monitor
Chlorine (TRC)							led for but not de ce with 6 NYCRF			(single sa	mple), but it	was detected	d at internal	outfa	ls 01A and 01C;
Fluoride	mg/L	-	14.3	1/0	-	-	-	-	0.89	2.7	A(C)	No reasonable potential	6 NYCRR 703.5	1	No Limitation
							f 130 mg/L (aver o reasonable pot								
O. Ift- ( 00 )		Daily Max	-	-	-	-	-	-	-	-	-	-	-	-	Monitor
Sulfite (as SO <sub>3</sub> )	Sulfite Part 75		d for but n	ot detected	d at Outfall 0	01, but it wa	s detected at Ou	tfalls 01A a	and 01B so	monitoring	j is being ad	ded at Outfall	001 in acco	ordanc	e with 6 NYCRR
Sulfate (as	mg/L	-	609	1/0	-	-	-	-	-	-	-	-	-	ı	No Limitation
SO <sub>4</sub> )	There i	s no Class I	B sulfate s	tandard; th	nerefore, no	limitation is	included in the p	ermit.							
	mg/L	-	2.25	1/0	-	-	-	-	-	-	-	-	-	-	No Limitation
Magnesium	There i	s no Class I	B magnes	ium standa	ard; therefore	e, no limitati	on is included in	the permit		•					
	μg/L	-	70	1/0	-	-	-	-	-	-	-	-	-	-	No Limitation
Formaldehyde	There i	s no Class I	B formalde	ehyde stan	dard; therefo	ore, no limita	ation is included i	n the perm	nit.		l	1			
Color	PCU	Daily Max	-	-	-	-	-	-	adversely	affect the	mounts that taste, color waters for	or odor	6 NYCRR 730.2	-	Monitor
	Color v 1.13.	as sampled	d for but no	ot detected	l at Outfall 00	01 but was	detected at Outfa	all 01B, so	monitoring	is being a	dded at Out	fall 001 in acc	cordance wi	th 6 N	YCRR Part 750-

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Date: October 5, 2023 v.1.11 Permit Writer: Catherine G. Winters

Outfall #		Description	n of Was	tewater: m	netal finishing	g process w	astewater from C	Outfalls 01	A, 01B, and	01C					
Outian #	001	Type of Tr	eatment:	pH adjustr	ment, floccula	ation and cl	arification, sand t	filtration							
		Existing Discharge Data  TBELs  Water Quality Data & WQBELs										Basis for			
Effluent Parameter	Units	Averaging Period	aging Existing # of Data Ambient Projected									Calc. WQBEL	Basis for WQBEL	ML	Permit Requirement
	mg/L	Daily Max		-	-	-	-	-	-	-	-	-	-	-	Monitor
Total Beryllium	Berylliu 750-1.1		pled for b	ut not dete	cted at Outfa	all 001 but v	vas detected at (	Outfall 01C	c, so monito	ring is bei	ng added at	: Outfall 001 i	n accordan	ce witl	n 6 NYCRR Part

Facility: Amphenol Corporation - Aerospace Operations

SPDES Number: NY0003824 USEPA Major/Class 03 Industrial

Outfall 002

Date: October 5, 2023 v.1.11 Permit Writer: Catherine G. Winters

Water Quality Reviewer: Catherine G. Winters

Outfall #	002	Description present, the					all previously cortoxic.	itained bot	th stormwa	ter and rer	nediation w	ater. While t	he remediat	ion wa	ater is no longer
		Type of Tre	atmer	it: none											
			Exis	ting Discha	arge Data	-	TBELs		Wa	ater Quality	/ Data & W	QBELs			5 . (
Effluent Parameter	Units	Averaging Period	Perm it Limit	Existing Effluent Quality <sup>17</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
General Notes: Exprovided by the per development of the	mittee.	All industrial	and re	mediation	water sourc	es were ren	noved/diverted from	om Outfall	onitoring R 002 by the	eports and end of 202	l an effluen 21. All appli	t toxicity inve cable water q	estigation re uality standa	port d ards w	ated 09/20/2022 ere reviewed for
Flow Rate	GPD	Daily Max	Monit or	51,374 Actual Average	50/0	Monitor	750-1.13 Monitor	Narrative their best		ions that w	ill impair the	e waters for	6 NYCRR 703.2	-	Monitor
Tiow reac	Flow v	vill continue t	to be n	nonitored fo	or informatio	nal purpose	es and to calculat	e pollutant	loadings.						
	SU	Minimum	6.0	6.6 Actual Min	50/0	-				6.5 – 8.5	Range	6.5 - 8.5	6 NYCRR		WQBEL
рН		Maximum	9.0	7.7 Actual Max	50/0	-	-	_	-	0.5 – 6.5	Kange	6.5 - 6.5	703.3	-	WQBEL
	Given	that adequa	te dilut	ion is not a	vailable, an	effluent limi	itation equal to th	ie WQS is	appropriate	e. This is b	eing change	ed from the p	revious perr	nit.	
Temperature	°F	Daily Max	90	73 Actual Max	50/0	Monitor	750-1.13 Monitor	surface of 90F at an	f <sup>°</sup> a stream s ly point and n 5F over th	shall not be shall no			6 NYCRR 704.2	-	Monitor
		utfall no long ed to inform f				ng water. T	he limitation is be	eing remov	ed, but con	sistent wit	h 6 NYCRR	? 750-1.13(a),	monitoring	is req	uired and may
trans-1,2-	μg/L	Daily Max	10	*	0/9	-	-	-	-	-	-	-	-	-	Antibacksliding
Dichloroethylene		llues were re is no Class (					1 μg/L. hloroethylene; ho	owever, the	e limitation v	will be mai	ntained whi	le effluent tox	cicity is unde	r inve	stigation.
Trichloroothydor	μg/L	Daily Max	10	3.4*	0/9	-	-	-	-	40	H(FC)	40	6 NYCRR 703.5	-	Antibacksliding
Trichloroethylene		g/L was repo urrent limit is					eported as less t	han the re	porting limi	t of 1 μg/L.					

<sup>&</sup>lt;sup>17</sup> Existing Effluent Quality: Daily Max = 99% lognormal; Monthly Avg = 95% lognormal (for datasets with ≤3 nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with >3 nondetects)

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Date: October 5, 2023 v.1.11 Permit Writer: Catherine G. Winters

Outfall #		Description present, the					all previously cor toxic.	tained bo	th stormwat	ter and rei	mediation w	ater. While th	ne remedia	tion w	ater is no longer
		Type of Tre	Type of Treatment: none												
			Exis	ting Disch	arge Data	•	TBELs		Wa	ater Quality	/ Data & Wo	QBELs			
Effluent Parameter	Units	Averaging Period	Perm Existing # of Data it Effluent Points Limit Quality <sup>17</sup> Detects / Non-Detects		Limit	Basis	Ambient Bkgd. Instream Conc. Conc. WQ Std. or GV		WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement		
Additional Polluta	nts De	tected													
Acatana	μg/L	Daily Max	-	-	-	-	-	-	-	-	-	-	-	-	No Limitation
Acetone							02 catch basin as acetone; therefore					ls analysis rep	oort submitt	ed in A	April 2023. There
	μg/L	Daily Max	-	-	-	-	-	-	-	-	-	-	-	_	Monitor
Total Aluminum	reviev	of this repor	t, DEC	has deterr	nined that th	e Outfall 00	002 catch basin a 2 sampling location Since the data v	on is not re	epresentativ	e, and the	permittee w	ill be required	l to estabÌisl	n a nev	v, representative
	μg/L	Daily Max	-	-	-	-	-	-	-	-	-	-	-	-	Monitor
Total Barium	reviev	of this repor	t, DEC	has deterr	nined that th	e Outfall 00	D2 catch basin as 2 sampling location Since the data v	on is not re	presentativ	e, and the	permittee w	ill be required	l to establisl	n a nev	v, representative
	μg/L	Daily Max	-	-	-	-	-	-	-	-	-	-	-	_	Monitor
Total Cadmium	reviev	v of this repor ing location	t, DEC	has deterr	nined that th	e Outfall 00	002 catch basin a 2 sampling location Since the data v	on is not re	presentativ	e, and the	permittee w	ill be required	l to establisl	n a nev	v, representative
	μg/L	Daily Max	-	-	-	-	-	-	-	-	-	-	-	-	Monitor
Total Chromium	reviev	of this repor	t, DEC	has deterr	nined that th	e Outfall 00	002 catch basin a 2 sampling location Since the data v	on is not re	presentativ	e, and the	permittee w	ill be required	l to estabÌisl	h a nev	v, representative
	μg/L	Daily Max	-	-	-	-	-	_	-	-	-	-	-	_	Monitor
Total Copper	reviev	v of this repor ing location	t, DEC	has deterr	nined that th	e Outfall 00	02 catch basin as 2 sampling location Since the data v	on is not re	presentativ	e, and the	permittee w	ill be required	l to establisl	n a nev	v, representative

Date: October 5, 2023 v.1.11 Permit Writer: Catherine G. Winters

Water Quality Reviewer: Catherine G. Winters Full Technical Review

USEPA Major/Class 03 Industrial

		Description		astewater	: stormwater		all previously con	tained bot	th stormwat	er and rer	nediation w	ater. While th	ne remediat	ion wa	ater is no longer
Outfall #	002		resent, the WET results still indicate this effluent as toxic.												
		Type of Tre	ype of Treatment: none												
			Existing Discharge Data		TBELs			Water Quality Data & WQBELs							
Effluent Parameter	Units	Averaging Period	Perm it Limit	Existing Effluent Quality <sup>17</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
	μg/L	Daily Max	-	-	-	-	-	-	-	-	-	-	-	-	Monitor
Total Lead	review	d was detected in the investigatory sampling in the 002 catch basin as part of the ongoing Toxicity Identification/Reduction Evaluation (TI/RE); however, through sew of this report, DEC has determined that the Outfall 002 sampling location is not representative, and the permittee will be required to establish a new, representative pling location as directed in the compliance schedule. Since the data was not representative, no limit is being established and monitoring is being added to the nit.													
	μg/L	Daily Max	-	-	-	-	-	-	-	-	-	-	-	-	Monitor
Total Nickel	review	of this reporing location	t, DEC	has deterr	nined that the	e Outfall 002	2 sampling location	on is not re	presentativ	e, and the	permittee w	ill be required	l to establish	n a nev	owever, through v, representative ing added to the
	μg/L	Daily Max	-	-	-	-	-	-	-	-	-	-	-	-	Monitor
Total Zinc	review	nc was detected in the investigatory sampling in the 002 catch basin as part of the ongoing Toxicity Identification/Reduction Evaluation (TI/RE); however, through view of this report, DEC has determined that the Outfall 002 sampling location is not representative, and the permittee will be required to establish a new, representative impling location as directed in the compliance schedule. Since the data was not representative, no limit is being established and monitoring is being added to the termit.													
	mg/L	Daily Max	-	-	-	-	-	-	-	-	-	-	-	-	Monitor
Hardness	Hardn	ess affects n	netals t	oxicity. Mo	onitoring is b	eing added	in accordance w	ith 6 NYCF	RR Part 750	)-1.13.			•		

Facility: Amphenol Corporation - Aerospace Operations

SPDES Number: NY0003824 USEPA Major/Class 03 Industrial

Outfall 005

Date: October 5, 2023 v.1.11 Permit Writer: Catherine G. Winters

Water Quality Reviewer: Catherine G. Winters

0.45-11.4	005	Description	of Was	t <b>ewater:</b> s	tormwater										
Outfall #	005	Type of Tre	atment:	none											
			Exist	ing Discha	rge Data	-	ΓBELs	Water Quality Data & WQBELs							Basis for
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>18</sup>	# of Data Points Detects / Non- Detects	Limit	Conc. C		Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Permit Requirement
							tained from Disc wn below repres				led by the p	ermittee. All a	applicable v	vater o	quality standards
Flow Rate	GPD	Daily Max	Monitor	21492 Actual Average	61/0	Monitor	750-1.13 Monitor	Narrative: their best		ions that w	ill impair the	e waters for	703.2	1	Monitor
	Flow w	will continue to be monitored for informational purposes and to calculate pollutant loadings.													
	SU	Minimum	6.0	6.5	61/0	-		8.2 <sup>19</sup>		6.5 – 8.5	Dange	6.5 - 8.5	703.3		WQBEL
рН		Maximum	9.0	8.8	61/0	-	-	0.2	-	0.5 – 6.5	Range	6.5 - 6.5	703.3	-	WQBEL
	Given t	hat adequate	e dilution	is not avai	lable, an effl	uent limitati	on equal to the V	VQS is app	oropriate. T	his is a cha	ange from tl	ne previous p	ermit.		
Temperature	°F	Daily Max	90	75 Actual Max	61/0	Monitor	750-1.13 Monitor	surface of 90F at an	f a stream s y point and n 5F over th	shall not be shall no			6 NYCRR 704.2	-	Monitor
		outfall no longer receives non-contact cooling water. The limitation is being removed, but consistent with 6 NYCRR 750-1.13(a), monitoring is required and may be to inform future permitting decisions.													
Oil & Grease	mg/L	Daily Max	15	ND	0/61	15	Antibacksliding		other wast			ge, industrial nor globules	6 NYCRR 703.2	1	TBEL
	All sam	ples were be	elow a va	rying detec	ction limit wh	ich remaine	ed below 15 mg/L	; however	, the TBEL	will be ma	intained.				

<sup>&</sup>lt;sup>18</sup> Existing Effluent Quality: Daily Max = 99% lognormal; Monthly Avg = 95% lognormal (for datasets with ≤3 nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with >3 nondetects)

<sup>&</sup>lt;sup>19</sup> Ambient pH obtained from 80th percentile of 22 RIBS samples.

Facility: Amphenol Corporation - Aerospace Operations

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Outfall 006

Date: October 5, 2023 v.1.11 Permit Writer: Catherine G. Winters

Water Quality Reviewer: Catherine G. Winters

0.45.11.4	000	Description	n of Was	<b>tewater:</b> s	tormwater										
Outfall #	006	Type of Tre	eatment:	none											
			Existing Discharge Data				TBELs	Water Quality Data & WQBELs							Dania fam
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>20</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
	<b>Notes:</b> Existing discharge data from 05/01/2017 to 05/31/2022 was obtained from Discharge Monitoring Reports provided by the permittee. All applicable water quality standards riewed for development of the WQBELs. The standard and WQBEL shown below represent the most stringent.														
Flow Rate	GPD	Daily Max	Monitor	21176 Actual Average	61/0	Monitor	750-1.13 Monitor	Narrative their best		ions that w	ill impair the	e waters for	703.2	-	Monitor
	Flow w	ow will continue to be monitored for informational purposes and to calculate pollutant loadings.													
	SU	Minimum	6.0	6.5	61/0	- 8	8.2 <sup>21</sup>	_	6.5 – 8.5	Range	6.5 - 8.5	703.3		WQBEL	
pН		Maximum	9.0	8.8	61/0	-	_	0.5			rtange	0.0 - 0.0	700.0		WQDLL
	Given t	hat adequate	e dilution	is not avai	lable, an effl	uent limitati	on equal to the V	VQS is app	oropriate. T	he is a cha	nge from th	e previous pe	ermit.		
Temperature	°F	Daily Max	90	74 Actual Max	61/0	Monitor	750-1.13 Monitor	surface o 90F at an	n 5F over th	shall not be l shall no	raised to r t be raised		6 NYCRR 704.2	1	Monitor
		ıtfall no longe inform futur				water. The l	limitation is being	removed,	but consist	tent with 6	NYCRR 75	0-1.13(a), mo	nitoring is r	equire	ed and may be
Oil & Grease	mg/L	Daily Max	15	ND	0/61	15	Antibacksliding		r other wast			ge, industrial nor globules	6 NYCRR 703.2	-	TBEL
- C.	All sam	iples were be	elow a va	rying dete	ction limit wh	ich remaine	ed below 15 mg/L	; however	, the TBEL	will be ma	ntained.				

<sup>&</sup>lt;sup>20</sup> Existing Effluent Quality: Daily Max = 99% lognormal; Monthly Avg = 95% lognormal (for datasets with ≤3 nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with >3 nondetects)

<sup>&</sup>lt;sup>21</sup> Ambient pH obtained from 80th percentile of 22 RIBS samples.

Facility: Amphenol Corporation - Aerospace Operations

SPDES Number: NY0003824 USEPA Major/Class 03 Industrial

Outfall 007

Date: October 5, 2023 v.1.11 Permit Writer: Catherine G. Winters

Water Quality Reviewer: Catherine G. Winters

0.45-11.4	007	Description	n of Wast	tewater: st	tormwater										
Outfall #	007	Type of Tre	eatment:	none											
			Exist	ing Discha	rge Data		TBELs	Water Quality Data & WQBELs							р : (
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>22</sup>	# of Data Points Detects / Non- Detects	Limit			Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
	ral Notes: Existing discharge data from 05/01/2017 to 05/31/2022 was obtained from Discharge Monitoring Reports provided by the permittee. All applicable water quality standards reviewed for development of the WQBELs. The standard and WQBEL shown below represent the most stringent.														
Flow Rate	GPD	Daily Max	Monitor	10812 Actual Average	61/0	Monitor	750-1.13 Monitor	Narrative their best		ions that w	ill impair the	e waters for	703.2	1	Monitor
	Flow w	will continue to be monitored for informational purposes and to calculate pollutant loadings.													
	SU	Minimum	6.0	6.2	61/0	1				6.5 – 8.5	Dange	6.5 - 8.5	703.3		WQBEL
рН		Maximum	9.0	8.7	61/0	1	-	8.2 <sup>23</sup>	-	0.5 – 6.5	Range	6.5 - 6.5	703.3	•	WQDEL
	Given t	hat adequate	e dilution	is not avail	lable, an effl	uent limitati	on equal to the V	VQS is app	oropriate. T	he is a cha	nge from th	ne previous pe	ermit.		
Temperature	°F	Daily Max	90	73 Actual Max	61/0	Monitor	750-1.13 Monitor	surface o 90F at an	f a stream s ly point and n 5F over th	shall not be l shall no			6 NYCRR 704.2	-	Monitor
		ıtfall no longe inform futur				water. The l	limitation is being	removed,	but consis	tent with 6	NYCRR 75	0-1.13(a), mo	nitoring is r	equire	d and may be
Oil & Grease	mg/L	Daily Max	15	5.2	1/60	15	Antibacksliding		r other was			ge, industrial nor globules	6 NYCRR 703.2	-	TBEL
	The TB	BEL will be m	aintained				<u>'</u>						1		

<sup>&</sup>lt;sup>22</sup> Existing Effluent Quality: Daily Max = 99% lognormal; Monthly Avg = 95% lognormal (for datasets with ≤3 nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with >3 nondetects)

<sup>&</sup>lt;sup>23</sup> Ambient pH obtained from 80th percentile of 22 RIBS samples.

Facility: Amphenol Corporation - Aerospace Operations

SPDES Number: NY0003824 USEPA Major/Class 03 Industrial

Outfall 008

Date: October 5, 2023 v.1.11 Permit Writer: Catherine G. Winters

Water Quality Reviewer: Catherine G. Winters

0-45-11.4	008	Description	n of Was	t <b>ewater:</b> st	tormwater										
Outfall #	008	Type of Tre	eatment:	none											
			Exist	ing Discha	rge Data	-	TBELs	Water Quality Data & WQBELs							Dania fam
Effluent Parameter	Units	Averaging Period	Permit Limit	Existing Effluent Quality <sup>24</sup>	# of Data Points Detects / Non- Detects	Limit	Basis	Ambient Bkgd. Conc.	Projected Instream Conc.	WQ Std. or GV	WQ Type	Calc. WQBEL	Basis for WQBEL	ML	Basis for Permit Requirement
	Notes: Existing discharge data from 05/01/2017 to 05/31/2022 was obtained from Discharge Monitoring Reports provided by the permittee. All applicable water quality standards viewed for development of the WQBELs. The standard and WQBEL shown below represent the most stringent.														
Flow Rate	GPD	Daily Max		11700 Actual Average	61/0	Monitor	750-1.13		: No alterat		ill impair the	e waters for	703.2	-	Monitor
	Flow w	w will continue to be monitored for informational purposes and to calculate pollutant loadings.													
	SU	Minimum	6.0	6.8	61/0	-		8.2 <sup>25</sup>		6.5 – 8.5	Dange	6.5 - 8.5	703.3		WQBEL
рН		Maximum	9.0	7.8	61/0	-	-	8.220	-	0.5 – 8.5	Range	6.5 - 8.5	703.3	•	WQBEL
	Given t	hat adequate	e dilution	is not avai	lable, an effl	uent limitati	on equal to the V	VQS is app	oropriate. T	he is a cha	inge from th	ne previous pe	ermit.		
Temperature	°F	Daily Max	90	76 Actual Max	61/0	Monitor	Monitor	surface of 90F at an	n 5F over th	shall not be shall no	e raised to r t be raised		6 NYCRR 704.2	-	Monitor
		itfall no longe inform futur				water. The I	imitation is being	removed,	but consist	tent with 6	NYCRR 75	0-1.13(a), mo	nitoring is r	equire	d and may be
Oil & Grease	mg/L	Daily Max	15	16	1/60	15	Antibacksliding		r other was			ge, industrial nor globules	6 NYCRR 703.2	-	TBEL
	The TB	BEL will be m	aintained												

<sup>&</sup>lt;sup>24</sup> Existing Effluent Quality: Daily Max = 99% lognormal; Monthly Avg = 95% lognormal (for datasets with ≤3 nondetects); Daily Max = 99% delta-lognormal; Monthly Avg = 95% delta-lognormal (for datasets with >3 nondetects)

<sup>&</sup>lt;sup>25</sup> Ambient pH obtained from 80th percentile of 22 RIBS samples.

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# USEPA EFFLUENT LIMITATION GUIDELINE (ELG) CALCULATIONS

**Appendix Link** 

For the applicable categorical limitations under 40 CFR Part 433, the following basis was used to determine the TBEL:

Outfall	001
40 CFR Part/Subpart	§433 Subpart A
Subpart Name	Metal Finishing Subcategory

ELG Pollutant	Daily Max TBEL (mg/L)	Monthly Avg. TBEL (mg/L)
Cadmium (T)	0.69	0.26
Chromium (T)	2.77	1.71
Copper (T)	3.38	2.07
Lead (T)	0.69	0.43
Nickel (T)	3.98	2.38
Silver (T)	0.43	0.24
Zinc (T)	2.61	1.48
Cyanide (T)	1.20	0.65
тто	2.13	NA
Oil & Grease	52	26
TSS	60	31
pH	6.0 - 9.0 su	

Note: Amphenol is an electroplating facility that performs four of the six operations covered by the effluent limit guidelines laid out in 40 CFR Part 433. The operations at Amphenol include electroplating, electroless plating, anodizing, and coating (chromating, phosphating, and coloring).

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# Appendix: Regulatory and Technical Basis of Permit Authorizations

The Appendix is meant to supplement the factsheet for multiple types of SPDES permits. Portions of this Appendix may not be applicable to this specific permit.

# Regulatory References

The provisions of the permit are based largely upon 40 CFR 122 subpart C and 6 NYCRR Part 750 and include monitoring, recording, reporting, and compliance requirements, as well as general conditions applicable to all SPDES permits. Below are the most common citations for the requirements included in SPDES permits:

- Clean Water Act (CWA) 33 section USC 1251 to 1387
- Environmental Conservation Law (ECL) Articles 17 and 70
- Federal Regulations
  - o 40 CFR, Chapter I, subchapters D, N, and O
- State environmental regulations
  - 6 NYCRR Part 621
  - o 6 NYCRR Part 750
  - o 6 NYCRR Parts 700 704 Best use and other requirements applicable to water classes
  - 6 NYCRR Parts 800 941 Classification of individual surface waters
- NYSDEC water program policy, referred to as Technical and Operational Guidance Series (TOGS)
- USEPA Office of Water Technical Support Document for Water Quality-based Toxics Control, March 1991, Appendix E

The following is a guick guide to the references used within the factsheet:

SPDES Permit Requirements	Regulatory Reference
Anti-backsliding	6 NYCRR 750-1.10(c)
Best Management Practices (BMPS) for CSOs	6 NYCRR 750-2.8(a)(2)
Environmental Benefits Permit Strategy (EBPS)	6 NYCRR 750-1.18, NYS ECL 17-0817(4), TOGS 1.2.2 (revised
	January 25,2012)
Exceptions for Type I SSO Outfalls (bypass)	6 NYCRR 750-2.8(b)(2), 40 CFR 122.41
Mercury Multiple Discharge Variance	Division of Water Program Policy 1.3.10
	(DOW 1.3.10)
Mixing Zone and Critical Water Information	TOGS 1.3.1 & Amendments
PCB Minimization Program	40 CFR Part 132 Appendix F Procedure 8, 6 NYCRR 750-1.13(a)
-	and 750-1.14(f), and TOGS 1.2.1
Pollutant Minimization Program (PMP)	6 NYCRR 750-1.13(a), 750-1.14(f), TOGS 1.2.1
Schedules of Compliance	6 NYCRR 750-1.14
Sewage Pollution Right to Know (SPRTK)	NYS ECL 17-0826-a, 6 NYCRR 750-2.7
State Administrative Procedure Act (SAPA)	State Administrative Procedure Act Section 401(2), 6 NYCRR
, ,	621.11(I)
State Environmental Quality Review (SEQR)	6 NYCRR Part 617
USEPA Effluent Limitation Guidelines (ELGs)	40 CFR Parts 405-471
USEPA National CSO Policy	33 USC Section 1342(q)
Whole Effluent Toxicity (WET) Testing	TOGS 1.3.2
General Provisions of a SPDES Permit Department	NYCRR 750-2.1(i)
Request for Additional Information	

# Outfall and Receiving Water Information

## **Impaired Waters**

The NYS 303(d) List of Impaired/TMDL Waters identifies waters where specific best usages are not fully supported. The state must consider the development of a Total Maximum Daily Load (TMDL) or other strategy to reduce the input of the specific pollutant(s) that restrict waterbody uses, in order to restore and protect such uses. SPDES permits must include effluent limitations necessary to implement a WLA of an EPA-approved TMDL (6 NYCRR 750-1.11(a)(5)(ii)), if applicable. In accordance with 6 NYCRR 750-1.13(a), permittees discharging to waters which are on the list but do not yet have a TMDL developed may be required to perform additional monitoring for the parameters causing the impairment. Accurate monitoring data is needed to

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determine the existing capabilities of the wastewater treatment plants and to assure that wasteload allocations (WLAs) are allocated equitably.

# Interstate Water Pollution Control Agencies

Some POTWs may be subject to regulations of interstate basin/compact agencies including: Interstate Sanitation Commission (ISC), International Joint Commission (IJC), Delaware River Basin Commission (DRBC), Ohio River Valley Water Sanitation Commission (ORSANCO), and the Susquehanna River Basin Commission (SRBC). Generally, basin commission requirements focus principally on water quality and not treatment technology. However, interstate/compact agency regulations for the ISC, IJC, DRBC and NYC Watershed contain explicit effluent limits which must be addressed during permit drafting. 6 NYCRR 750-2.1(d) requires SPDES permits for discharges that originate within the jurisdiction of an interstate water pollution control agency, to include any applicable effluent standards or water quality standards (WQS) promulgated by that interstate agency.

# **Existing Effluent Quality**

The existing effluent quality is determined from a statistical evaluation of effluent data in accordance with TOGS 1.2.1 and the USEPA Office of Water, <u>Technical Support Document for Water Quality-based Toxics Control</u>, March 1991, Appendix E (TSD). The existing effluent quality is equal to the 95<sup>th</sup> (monthly average) and 99<sup>th</sup> (daily maximum) percentiles of the lognormal distribution of existing effluent data. When there are greater than three non-detects, a delta-lognormal distribution is assumed, and delta-lognormal calculations are used to determine the monthly average and daily maximum pollutant concentrations. Statistical calculations are not performed for parameters where there are less than ten data points. If additional data is needed, a monitoring requirement may be specified either through routine monitoring or a short-term high intensity monitoring program. The <u>Pollutant Summary Table</u> identifies the number of sample data points available.

# **Permit Requirements**

#### **Basis for Effluent Limitations**

Sections 101, 301, 304, 308, 401, 402, and 405 of the CWA and Titles 5, 7, and 8 of Article 17 ECL, as well as their implementing federal and state regulations, and related guidance, provide the basis for the effluent limitations and other conditions in the permit.

When conducting a full technical review of an existing permit, the previous effluent limitations form the basis for the next permit. Existing effluent quality is evaluated against the existing effluent limitations to determine if these should be continued, revised, or deleted. Generally, existing limitations are continued unless there are changed conditions at the facility, the facility demonstrates an ability to meet more stringent limitations, and/or in response to updated regulatory requirements. Pollutant monitoring data is also reviewed to determine the presence of additional contaminants that should be included in the permit based on a reasonable potential analysis to cause or contribute to a water quality standards violation.

#### Anti-backsliding

Anti-backsliding requirements are specified in the CWA sections 402(o) and 303(d)(4), ECL 17-0809, and regulations at 40 CFR 122.44(/) and 6 NYCRR 750-1.10(c) and (d). Generally, the relaxation of effluent limitations in permits is prohibited unless one of the specified exceptions applies, which will be cited on a case-by-case basis in this factsheet. Consistent with current case law<sup>26</sup> and USEPA interpretation<sup>27</sup> anti-backsliding requirements do not apply should a revision to the final effluent limitation take effect before the scheduled date of compliance for that final effluent limitation.

<sup>&</sup>lt;sup>26</sup> American Iron and Steel Institute v. Environmental Protection Agency, 115 F.3d 979, 993 n.6 (D.C. Cir. 1997)

<sup>&</sup>lt;sup>27</sup> U.S. EPA, Water Quality Standards; Establishment of Numeric Criteria for Priority Toxic Pollutants for the State of California; 65 Fed. Reg. 31682, 31704 (May 18, 2000); Proposed Water Quality Guidance for the Great Lakes System, 58 Fed. Reg. 20802, 20837 & 20981 (April 16, 1993)

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## Antidegradation Policy

New York State implements the antidegradation portion of the CWA based upon two documents: (1) Organization and Delegation Memorandum #85-40, "Water Quality Antidegradation Policy" (September 9, 1985); and, (2) TOGS 1.3.9, "Implementation of the NYSDEC Antidegradation Policy – Great Lakes Basin (Supplement to Antidegradation Policy dated September 9, 1985) (undated)." The permit for the facility contains effluent limitations which ensure that the existing best usage of the receiving waters will be maintained. To further support the antidegradation policy, SPDES applications have been reviewed in accordance with the State Environmental Quality Review Act (SEQR) as prescribed by 6 NYCRR Part 617.

#### **Effluent Limitations**

In developing a permit, the Department determines the technology-based effluent limitations (TBELs) and then evaluates the water quality expected to result from technology controls to determine if any exceedances of water quality criteria in the receiving water might result. If there is a reasonable potential for exceedances of water quality criteria to occur, water quality-based effluent limitations (WQBELs) are developed. A WQBEL is designed to ensure that the water quality standards of receiving waters are met. In general, the CWA requires that the effluent limitations for a particular pollutant are the more stringent of either the TBEL or WQBEL.

# Technology-based Effluent Limitations (TBELs) for Industrial Facilities

A TBEL requires a minimum level of treatment for industrial point sources based on currently available treatment technologies and/or Best Management Practices (BMPs). CWA sections 301(b) and 402, ECL sections 17-0509, 17-0809 and 17-0811, and 6 NYCRR 750-1.11 require technology-based controls on effluents. TBELs are set based upon an evaluation of New Source Performance Standards (NSPS), Best Available Technology Economically Achievable (BAT), Best Conventional Pollutant Control Technology (BCT), Best Practicable Technology Currently Available (BPT), and/or Best Professional Judgment (BPJ).

#### USEPA Effluent Limitation Guidelines (ELGs) Applicable to Facility

In many cases, BPT, BCT, BAT and NSPS limitations are based on effluent guidelines developed by USEPA for specific industries, as promulgated under 40 CFR Parts 405-471. Applicable guidelines, pollutants regulated by these guidelines, and the effluent limitation derivation for facilities subject to these guidelines is in the USEPA Effluent Limitation Guideline Calculations

#### Best Professional Judgement (BPJ)

For substances that are not explicitly limited by regulations, the permit writer is authorized to use BPJ in developing TBELs. Consistent with section 402(a)(1) of the CWA, and NYS ECL section 17-0811, the Department is authorized to issue a permit containing "any further limitations necessary to ensure compliance with water quality standards adopted pursuant to state law". BPJ limitations may be set on a case-by-case basis using any reasonable method that takes into consideration the criteria set forth in 40 CFR 125.3. Applicable state regulations include 6 NYCRR 750-1.11. The BPJ limitation considers the existing technology present at the facility, the statistically calculated existing effluent quality for that parameter, and any unique or site-specific factors relating to the facility. Technology limitations generally achievable for various treatment technologies are included in TOGS 1.2.1, Attachment C. These limitations may be used for the listed parameters when the technology employed at the facility is listed.

#### Water Quality-Based Effluent Limitations (WQBELs)

In addition to the TBELs, permits must include additional or more stringent effluent limitations and conditions, including those necessary to protect water quality. CWA sections 101 and 301(b)(1)(C), 40 CFR 122.44(d)(1), and 6 NYCRR Parts 750-1.11 require that permits include limitations for all pollutants or parameters which are or may be discharged at a level which may cause or contribute to an exceedance of any State water quality standard adopted pursuant to NYS ECL 17-0301. Additionally, 6 NYCRR 701.1 prohibits the discharge of pollutants that will cause impairment of the best usages of the receiving water as specified by the water classifications at the location of discharge and at other locations that may be affected by such discharge. Water quality standards can be found under 6 NYCRR Parts 700-704. The

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limitations must be stringent enough to ensure that water quality standards are met at the point of discharge and in downstream waters and must be consistent with any applicable WLA which may be in effect through a TMDL for the receiving water. These and other requirements are summarized in TOGS 1.1.1, 1.3.1, 1.3.2, 1.3.5 and 1.3.6. The Department considers a mixing zone analysis, critical flows, and reasonable potential analysis when developing a WQBEL.

## Mixing Zone Analyses

In accordance with TOGS 1.3.1., the Department may perform additional analysis of the mixing condition between the effluent and the receiving waterbody. Mixing zone analyses using plume dispersion modeling are conducted in accordance with the following:

"EPA Technical Support Document for Water Quality-Based Toxics Control" (March 1991); EPA Region VIII's "Mixing Zones and Dilution Policy" (December 1994); NYSDEC TOGS 1.3.1, "Total Maximum Daily Loads and Water Quality-Based Effluent Limitations" (July 1996); "CORMIX v11.0" (2019).

## Critical Flows

In accordance with TOGS 1.2.1 and 1.3.1, WQBELs are developed using dilution ratios that relate the critical low flow condition of the receiving waterbody to the critical effluent flow. The critical low flow condition used in the dilution ratio will be different depending on whether the limitations are for aquatic or human health protection. For chronic aquatic protection, the critical low flow condition of the waterbody is typically represented by the 7Q10 flow and is calculated as the lowest average flow over a 7-day consecutive period within 10 years. For acute aquatic protection, the critical low flow condition is typically represented by the 1Q10 and is calculated as the lowest 1-day flow within 10 years. However, NYSDEC considers using 50% of the 7Q10 to be equivalent to the 1Q10 flow. For the protection of human health, the critical low flow condition is typically represented by the 30Q10 flow and is calculated as the lowest average flow over a 30-day consecutive period within 10 years. However, NYSDEC considers using 1.2 x 7Q10 to be equivalent to the 30Q10. The 7Q10 or 30Q10 flow is used with the critical effluent flow to calculate the dilution ratio. The critical effluent flow can be the maximum daily flow reported on the permit application, the maximum of the monthly average flows from discharge monitoring reports for the past three years, or the facility design flow. When more than one applicable standard exists for aquatic or human health protection for a specific pollutant, a reasonable potential analysis is conducted for each applicable standard and corresponding critical flow to ensure effluent limitations are sufficiently stringent to ensure all applicable water quality standards are met as required by 40 CFR 122.44(d)(1)(i). For brevity, the pollutant summary table reports the results of the most conservative scenario.

## Reasonable Potential Analysis (RPA)

The Reasonable Potential Analysis (RPA) is a statistical estimation process, outlined in the 1991 USEPA Technical Support Document for Water Quality-based Toxics Control (TSD), Appendix E. This process uses existing effluent quality data and statistical variation methodology to project the maximum amounts of pollutants that could be discharged by the facility. This projected instream concentration (PIC) is calculated using the appropriate ratio and compared to the water quality standard (WQS). When the RPA process determines the WQS may be exceeded, a WQBEL is required. The procedure for developing WQBELs includes the following steps:

- 1) identify the pollutants present in the discharge(s) based upon existing data, sampling data collected by the permittee as part of the permit application or a short-term high intensity monitoring program, or data gathered by the Department;
- 2) identify water quality criteria applicable to these pollutants;
- 3) determine if WQBELs are necessary (i.e. reasonable potential analysis (RPA)). The RPA will utilize the procedure outlined in Chapter 3.3.2 of EPA's Technical Support Document (TSD). As outlined in the TSD, for parameters with limited effluent data the RPA may include multipliers to account for effluent variability; and,

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4) calculate WQBELs (if necessary). Factors considered in calculating WQBELs include available dilution of effluent in the receiving water, receiving water chemistry, and other pollutant sources.

The Department uses modeling tools to estimate the expected concentrations of the pollutant in the receiving water and develop WQBELs. These tools were developed in part using the methodology referenced above. If the estimated concentration of the pollutant in the receiving water is expected to exceed the ambient water quality standard or guidance value (i.e. numeric interpretation of a narrative water quality standard), then there is a reasonable potential that the discharge may cause or contribute to an exceedance of any State water quality standard adopted pursuant to NYS ECL 17-0301. If a TMDL is in place, the facility's WLA for that pollutant is applied as the WQBEL.

For carbonaceous and nitrogenous oxygen demanding pollutants, the Department uses a model which incorporates the Streeter-Phelps equation. The equation relates the decomposition of inorganic and organic materials along with oxygen reaeration rates to compute the downstream dissolved oxygen concentration for comparison to water quality standards.

The Division of Water has been using the TMDL approach in permit limit development for the control of toxic substances. Since the early 1980's, the loading capacity for specific pollutants has been determined for each drainage basin. Water quality-limiting segments and pollutants have been identified, TMDLs, wasteload allocations and load allocations have been developed, and permits with water quality-based effluent limits have been issued. In accordance with TOGS 1.3.1, the Division of Water implements a Toxics Reduction Strategy which is committed to the application of the TMDL process using numeric, pollutant-specific water quality standards through the Watershed Approach. The Watershed Approach accounts for the cumulative effect of multiple discharges of conservative toxic pollutants to ensure water quality standards are met in downstream segments.

# Whole Effluent Toxicity (WET) Testing:

WET tests use small vertebrate and invertebrate species to measure the aggregate toxicity of an effluent. There are two different durations of toxicity tests: acute and chronic. Acute toxicity tests measure survival over a 96-hour test exposure period. Chronic toxicity tests measure reductions in survival, growth, and reproduction over a 7-day exposure. TOGS 1.3.1 includes guidance for determining when aguatic toxicity testing should be included in SPDES permits. The authority to require toxicity testing is in 6NYCRR 702.9. TOGS 1.3.2 describes the procedures which should be followed when determining whether to include toxicity testing in a SPDES permit and how to implement a toxicity testing program. Per TOGS 1.3.2, WET testing may be required when any one of the following seven criteria are applicable:

- 1. There is the presence of substances in the effluent for which ambient water quality criteria do not exist.
- 2. There are uncertainties in the development of TMDLs, WLAs, and WQBELs, caused by inadequate ambient and/or discharge data, high natural background concentrations of pollutants, available treatment technology, and other such factors.
- 3. There is the presence of substances for which WQBELs are below analytical detectability.
- 4. There is the possibility of complex synergistic or additive effects of chemicals, typically when the number of metals or organic compounds discharged by the permittee equals or exceeds five.
- 5. There are observed detrimental effects on the receiving water biota.
- 6. Previous WET testing indicated a problem.
- 7. POTWs which exceed a discharge of 1 MGD. Facilities of less than 1 MGD may be required to test, e.g., POTWs <1 MGD which are managing industrial pretreatment programs.

### Minimum Level of Detection

Pursuant to 40 CFR 122.44(i)(1)(iv) and 6 NYCRR 750-2.5(d), SPDES permits must contain monitoring requirements using sufficiently sensitive test procedures approved under 40 CFR Part 136. A method is "sufficiently sensitive" when the method's minimum level (ML) is at or below the level of the effluent limitation established in the permit for the measured pollutant parameter; or the lowest ML of the analytical methods

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approved under 40 CFR Part 136. The ML represents the lowest level that can be measured within specified limitations of precision and accuracy during routine laboratory operations on most effluent matrices. When establishing effluent limitations for a specific parameter (based on technology or water quality requirements), it is possible that the calculated limitation will fall below the ML established by the approved analytical method(s). In these instances, the calculated limitation is included in the permit with a compliance level set equal to the ML of the most sensitive method.

## Monitoring Requirements

CWA section 308, 40 CFR 122.44(i), 6 NYCRR 750-1.13, and 750-2.5 require that monitoring be included in permits to determine compliance with effluent limitations. Additional effluent monitoring may also be required to gather data to determine if effluent limitations may be required. The permittee is responsible for conducting the monitoring and reporting results on Discharge Monitoring Reports (DMRs). The permit contains the monitoring requirements for the facility. Monitoring frequency is based on the minimum sampling necessary to adequately monitor the facility's performance and characterize the nature of the discharge of the monitored flow or pollutant. Variable effluent flows and pollutant levels may be required to be monitored at more frequent intervals than relatively constant effluent flow and pollutant levels (6 NYCRR 750-1.13). For industrial facilities, sampling frequency is based on guidance provided in TOGS 1.2.1. For municipal facilities, sampling frequency is based on guidance provided in TOGS 1.3.3.

## **Other Conditions**

## Mercury

The multiple discharge variance (MDV) for mercury was developed in accordance with 6 NYCRR 702.17(h) "to address widespread standard or guidance value attainment issues including the presence of a ubiquitous pollutant or naturally high levels of a pollutant in a watershed." The first MDV was issued in October 2010, and subsequently revised and reissued in 2015; each subsequent iteration of the MDV is designed to build off the previous version, to make reasonable progress towards the water quality standard (WQS) of 0.7 ng/L dissolved mercury. The MDV is necessary because human-caused conditions or sources of mercury prevent attainment of the WQS and cannot be remedied (i.e., mercury is ubiquitous in New York waters at levels above the WQS and compliance with a water quality based effluent limitation (WQBEL) for mercury cannot be achieved with demonstrated effluent treatment technologies). The Department has determined that the MDV is consistent with the protection of public health, safety, and welfare. During the effective period of this MDV, any increased risks to human health are mitigated by fish consumption advisories issued periodically by the NYSDOH.

All surface water SPDES permittees are eligible for authorization by the MDV provided they meet the requirements specified in DOW 1.3.10.

#### Schedules of Compliance

Schedules of compliance are included in accordance with 40 CFR Part 132 Attachment F, Procedure 9, 40 CFR 122.47 and 6 NYCRR 750-1.14. Schedules of compliance are intended to, in the shortest reasonable time, achieve compliance with applicable effluent standards and limitations, water quality standards, and other applicable requirements. Where the time for compliance is more than nine months, the schedule of compliance must include interim requirements and dates for their achievement. If the time necessary to complete the interim milestones is more than nine months, and not readily divisible into stages for completion, progress reports must be required.

#### Schedule(s) of Additional Submittals

Schedules of Additional Submittals are used to summarize the deliverables required by the permit not identified in a separate Schedule of Compliance.

## Best Management Practices (BMP) for Industrial Facilities

BMP plans are authorized for inclusion in NPDES permits pursuant to Sections 304(e) and 402 (a)(1) of the Clean Water Act, and 6 NYCRR 750-1.14(f). The regulations pertaining to BMPs are promulgated under 40 CFR Part 125, Subpart K. These regulations specifically address surface water discharges.