

- Instructions**
- Save a copy of this tool for each new permit
  - Select State: **NH**
  - Design Flow: 13.0 MGD Note: 1 cfs = 0.646 MGD
  - Upstream TQ10 Flow: 392.2 MGD \*For freshwater discharges only
  - Dilution Factor: \*Update manually for marine discharges (Note: Dilution ratio of 10:1 = DF of 11)
  - Salinity (ppt) \*Marine discharges only (downstream)
  - Salmonids? Present \*Freshwater discharges only
  - Early life stages? Present \*Freshwater discharges only (impacts 1999 chronic criteria for MA)
  - Discharge to: Stream/River \*Freshwater discharges only (impacts Gold Book TP criteria)
  - Insert Current Effluent Limits (use mg/L; leave blank if no limit)
  - Insert Effluent and Ambient data (use mg/L, no dates necessary)
  - Change any cells with non-detects (i.e., <math>< 0.001</math>) to "0"
  - Delete any text within the data (i.e., "NOD" or similar)
  - Do NOT drag and drop data within the tables below!
  - Move on to next Tab (Freshwater or Marine)

For entering total phosphorus data, use average monthly data from April 1st thru October 31st  
 For entering Ammonia data, seasons are as follows:  
 For MA: Warm weather (April 1 - October 31), Cold weather (November 1 - March 31)  
 For NH: Warm weather (May 1 - October 31), Cold weather (November 1 - April 30)

Downstream Hardness: #NUM! mg/L Note: if below 20 mg/L in NH, spreadsheet will use default of 20 mg/L

Current Effluent Limits								
Aluminum	Cadmium	Copper	Lead	Nickel	Zinc	Ammonia (Warm)	Ammonia (Cold)	Phosphorus
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L

Stream	Date	Effluent Data		Nickel	Zinc	Ammonia (Warm)	Ammonia (Cold)	Phosphorus	Ambient Data												
		Copper Long (2008-2019)	Copper Short (2015-2019)						Hardness	pH	Aluminum	Copper	Copper	Lead	Nickel	Zinc	Ammonia (Warm)	Ammonia (Cold)	Phosphorus		
mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	S.U.	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	
1	2008-03-31	0.01	0	0																	
2	2008-06-30	0.01	0	0																	
3	2008-09-30	0.01	0	0																	
4	2008-12-31	0	0	0																	
5	2009-03-31	0	0.01	0.01																	
6	2009-06-30	0.01	0.01	0.01																	
7	2009-09-30	0.01	0.01	0.01																	
8	2009-12-31	0.02	0.01	0.01																	
9	2010-03-31	0.03	0	0																	
10	2010-06-30	0	0	0																	
11	2010-09-30	0.01	0.01	0.01																	
12	2010-12-31	0.01	0.01	0.01																	
13	2011-03-31	0.01	0.002	0.002																	
14	2011-06-30	0.03	0.002	0.002																	
15	2011-09-30	0.02	0.004	0.004																	
16	2011-12-31	0.01	0.004	0.004																	
17	2012-03-31	0	0.002	0.002																	
18	2012-06-30	0.01	0.002	0.002																	
19	2012-09-30	0.01	0.002	0.002																	
20	2012-12-31	0.01	0.004	0.004																	
21	2013-03-31	0	0	0																	
22	2013-06-30	0.02	0	0																	
23	2013-09-30	0.03	0	0																	
24	2013-12-31	0.02	0	0																	
25	2014-03-31	0.002	0	0																	
26	2014-06-30	0.01	0	0																	
27	2014-09-30	0.01	0	0																	
28	2014-12-31	0.01	0	0																	
29	2015-03-31	0	0	0																	
30	2015-06-30	0	0	0																	
31	2015-09-30	0.01	0	0																	
32	2015-12-31	0	0	0																	
33	2016-03-31	0.01	0	0																	
34	2016-06-30	0.01	0	0																	
35	2016-09-30	0.01	0	0																	
36	2016-12-31	0.01	0	0																	
37	2017-03-31	0	0	0																	
38	2017-06-30	0	0	0																	
39	2017-09-30	0.01	0	0																	
40	2017-12-31	0.01	0	0																	
41	2018-03-31	0.002	0	0																	
42	2018-06-30	0.002	0	0																	
43	2018-09-30	0.004	0	0																	
44	2018-12-31	0.004	0	0																	
45	2019-03-31	0.002	0	0																	
46	2019-06-30	0.002	0	0																	
47	2019-09-30	0.002	0	0																	
48	2019-12-31	0.004	0	0																	
96h	NA	0.0050	0.0290	0.0148	0.0000	0.0000	0.0000	0.0	0.0	0.0	0.00056	0.00056	0	0	0	0	0	0	0	0	
Max	NA	0	0.03	0.01	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

- Instructions**
- If any limit is based on Backsliding or Anti-Backsliding, permit writer to confirm case-by-case whether exceptions apply
  - Remove highlighting after any backsliding issues have been resolved
  - Select entire table with footnotes, copy into Appendix B template
  - Use Explanation of Limits table to briefly describe each limit in the Fact Sheet (incorporate limits into Draft Permit)

Pollutant	Q <sub>1</sub>	C <sub>1</sub> <sup>1</sup>	Q <sub>2</sub>	C <sub>2</sub> <sup>2</sup>	Q <sub>3</sub>	C <sub>4</sub>		Criteria * 0.9		Reasonable Potential		Limits		Explanation of Limits		
	cfs	mg/L	cfs	Acute (mg/L)	Chronic (mg/L)	cfs	Acute (mg/L)	Chronic (mg/L)	Acute (mg/L)	Chronic (mg/L)	C <sub>4</sub> & C <sub>1</sub> > Acute Criteria	C <sub>4</sub> & C <sub>1</sub> > Chronic Criteria	Acute (mg/L)	Chronic (mg/L)	Acute	Chronic
Ammonia (Warm)		0.0		0.0	0.0		0.0	0.0	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
Ammonia (Cold)		0.0		0.0	0.0		0.0	0.0	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
Phosphorus		0.00		N/A	0.00		N/A	0.00	N/A	0.00	N/A	N	N/A	N/A	N/A	No Limit
Aluminum		#NUM!		#NUM!	#NUM!		#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
Copper (2008-2019)		0.6	20.17	29.0	29.0	545.17	1.6	1.6	3.2	2.4	N	N	N/A	N/A	No Limit	
Copper (2015-2019)		0.6	20.17	14.8	14.8	545.17	1.1	1.1	3.2	2.4	N	N	N/A	N/A	No Limit	
Nickel		0.0		0.0	0.0		0.0	0.0	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!
Zinc		0.0		0.0	0.0		0.0	0.0	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!	#NUM!

<sup>1</sup>Median concentration for the receiving water just upstream of the facility's discharge taken from the WET testing data during the review period (see Appendix A).  
<sup>2</sup>Values represent the 95<sup>th</sup> percentile (for n ≥ 10) or maximum (for n < 10) concentrations from the DMR data and/or WET testing data during the review period (see Appendix A). If the metal already has a limit (for either acute or chronic conditions), the value represents the existing limit.

Freshwater Ammonia		MA		NH	
Season	Temp °C	1999 Criteria		2013 Criteria	
		Acute mg/L	Chronic mg/L	Acute mg/L	Chronic mg/L
Warm Weather	25	#NUM!	#NUM!	#NUM!	#NUM!
Cold Weather	5	#NUM!	#NUM!	#NUM!	#NUM!

Update if not using default temps

**No Limit:** No existing limit and no RP for a new limit  
**New Limit:** Limit established in this permit issuance  
**Same Limit:** Limit carried forward from previous permit (either no change to criteria or no change to WQS calc)  
**More Stringent:** limit must be more stringent than before to meet WQS  
**Anti-backsliding Applies:** Less stringent limit meets WQS but discharge is achieving existing limit so existing limit carried forward  
**Backsliding Allowed:** Less stringent limit meets WQS and discharge is not achieving existing limit so limit able to be less stringent [See exception E @ 40 CFR § 122.44(d)(2)(E)]

Note: If backsliding is allowed, new limit is **most stringent** of either recent performance (95th) or new WQS calc. To determine which one it is, you can compare the limit to the 95th at bottom of 1st tab.