Ultimate BOD Penobscot River

07-Aug

Indicates reaeration of sample occurred

mple Locat	Sta Code	Date	07-Aug	09-Aug	13-Aug	20-Aug	27-Aug	04-Sep	12-Sep	18-Sep	25-Sep	02-Oct	09-Oct			Reaer 1	Reaer 2	CBODu	NBODu	TBOD	Bottle Kd
		Day	0	2	6	13	20	28	36	42	49	56	63								
Ferguson Lake	WBP1	DO	8.46	8.32	7.86	7.48	7.17	6.83	6.55	6.36	6.23	6.02	5.84					2.7	0.3	3	0.03
		BOD	0	0.14	0.6	0.98	1.29	1.63	1.91	2.1	2.23	2.44	2.62								
Dolby Pond Inlet	WBP2	DO	7.4	7.16	6.56	5.8	5.11	4.57	4.29	4.08	3.85	3.61	3.43					3.6	0.6	4.2	0.045
		BOD	0	0.24	0.84	1.6	2.29	2.83	3.11	3.32	3.55	3.79	3.97								
Dolby Pond Dam	WBP3	DO	7.93	7.3	6.6	5.92	5.15	4.49	4.16	3.97	3.76	3.55	3.37					4	0.6	4.6	0.055
		BOD	0	0.63	1.33	2.01	2.78	3.44	3.77	3.96	4.17	4.38	4.56								
Rockabema Dam	WBP5	DO	7.21	6.73	6.14	5.5	4.78	4.25	3.91	3.74	3.51	3.24	3.05					3.6	0.6	4.2	0.05
		BOD	0	0.48	1.07	1.71	2.43	2.96	3.3	3.47	3.7	3.97	4.16								
Weldon Dam	Pn1	DO	9.01	8.27	7.19	6.53	5.91	5.05	4.49	4.25	4.05	3.75	3.57					4.8	0.7	5.5	0.055
		BOD	0	0.74	1.82	2.48	3.1	3.96	4.52	4.76	4.96	5.26	5.44								
North Lincoln	Pn3	DO	8.72	8.36	7.75	7.19	6.71	6.15	5.81	5.57	5.39	5.09	4.9					3.7	0.3	4	0.04
		BOD	0	0.36	0.97	1.53	2.01	2.57	2.91	3.15	3.33	3.63	3.82								
South Lincoln	Pn4	DO	8.74	8.18	7.46	6.85	6.42	5.77	5.43	5.21	4.99	4.74	4.55					4	0.4	4.4	0.045
		BOD	0	0.56	1.28	1.89	2.32	2.97	3.31	3.53	3.75	4	4.19								
West Enfield Dam	Pn5	DO	9	8.59	8.07	7.42	6.98	6.38	5.96	5.7	5.49	5.25	5.03					4	0.4	4.4	0.035
		BOD	0	0.41	0.93	1.58	2.02	2.62	3.04	3.3	3.51	3.75	3.97								
Milford Dam	Pn9	DO	8.19	7.66	6.93	6.32	5.89	5.3	4.89	4.71	4.43	4.15	3.94					3.8	0.4	4.2	0.045
		BOD	0	0.53	1.26	1.87	2.3	2.89	3.3	3.48	3.76	4.04	4.25								
Veazie Dam	Pn12	DO	7.81	7.66	7.17	6.62	6.23	5.63	5.23	5.04	4.87	4.65	4.47					3.3	0.4	3.7	0.035
		BOD	0	0.15	0.64	1.19	1.58	2.18	2.58	2.77	2.94	3.16	3.34								
Bangor Dam	Pn13	DO	8.15	8.03	7.52	7.05	6.59	5.98	5.6	5.38	5.19	4.95	4.74					3.4	0.3	3.7	0.035
		BOD	0	0.12	0.63	1.1	1.56	2.17	2.55	2.77	2.96	3.2	3.41								
River Duplicate	DUPR	DO	7.47	7.28	6.56	5.81	5.2	4.57	4.29	4.08	3.89	3.65	3.54					3.6	0.6	4.2	0.045
		BOD	0	0.19	0.91	1.66	2.27	2.9	3.18	3.39	3.58	3.82	3.93								
South Brewer	PnE2	DO	8.05	7.84	7.26	6.8	6.39	5.75	5.36	5.09	4.88	4.61	4.38					3.9	0.3	4.2	0.03
		BOD	0	0.21	0.79	1.25	1.66	2.3	2.69	2.96	3.17	3.44	3.67								
Orrington Center	PnE5	DO	8.51	8.27	7.66	7.24	6.76	6.12	5.75	5.38	5.16	4.9	4.73					4	0.5	4.5	0.03
		BOD	0	0.24	0.85	1.27	1.75	2.39	2.76	3.13	3.35	3.61	3.78								
South Orrington	PnE7	DO	8.45	8.24	7.7	7.39	7	6.57	6.28	5.99	5.7	5.35	5.21					3.6	0.5	4.1	0.025
		BOD	0	0.21	0.75	1.06	1.45	1.88	2.17	2.46	2.75	3.1	3.24								
Winterport	PnE9	DO	8.56	8.38	7.9	7.52	7.22	6.73	6.37	6.16	6.03	5.8	5.68					3	0.5	3.5	0.03
		BOD	0	0.18	0.66	1.04	1.34	1.83	2.19	2.4	2.53	2.76	2.88								
Fort Knox	PnE12	DO	7.85	7.64	7.08	6.71	6.45	6.07	5.85	5.53	5.38	5.24	5.14					2.5	0.5	3	0.04
		BOD	0	0.21	0.77	1.14	1.4	1.78	2	2.32	2.47	2.61	2.71								
Estuary Duplicate	DUPE	DO	8.3	8.17	7.79	7.34	6.94	6.43	6.05	5.77	5.47	5.13	4.93					4.1	0.5	4.6	0.02
		BOD	0	0.13	0.51	0.96	1.36	1.87	2.25	2.53	2.83	3.17	3.37								
Millinocket Stream	MIS	DO	7.65	7.67	7.27	6.88	6.58	6.2	5.96	5.83	5.69	5.5	5.37					2.4	0.3	2.7	0.028
		BOD	0	-0.02	0.38	0.77	1.07	1.45	1.69	1.82	1.96	2.15	2.28								
East Branch Penobscot	EBPn	DO	7.78	7.7	7.39	6.99	6.72	6.33	6.15	6	5.84	5.65	5.55					2.3	0.3	2.6	0.03
		BOD	0	0.08	0.39	0.79	1.06	1.45	1.63	1.78	1.94	2.13	2.23								
Mattawamkeag River	MAR	DO	8.34	8.12	7.71	7.1	6.63	6.01	5.47	5.19	4.92	4.59	4.39					4.6	0.3	4.9	0.025
		BOD	0	0.22	0.63	1.24	1.71	2.33	2.87	3.15	3.42	3.75	3.95								
Piscataquis River	PIR	DO	8.26	8.08	7.65	7.14	6.82	6.41	6.1	5.91	5.79	5.59	5.48					2.9	0.3	3.2	0.035
		BOD	0	0.18	0.61	1.12	1.44	1.85	2.16	2.35	2.47	2.67	2.78								
Stillwater River	StR	DO	8.13	7.99	7.52	7.13	6.83	6.34	6.04	5.84	5.66	5.39	5.18					2.8	0.3	3.1	0.035
		BOD	0	0.14	0.61	1	1.3	1.79	2.09	2.29	2.47	2.74	2.95								
Tributary Duplicate	DUPT	DO	7.54	7.43	7.09	6.6	6.29	5.82	5.53	5.37	5.18	4.97	4.8					2.8	0.3	3.1	0.032
		BOD	0	0.11	0.45	0.94	1.25	1.72	2.01	2.17	2.36	2.57	2.74								

Ultimate BOD Penobscot River Effluents

07-Aug

Indicates reaeration of sample occurred

Location	Effl Vol (ml)	Seed Vol (ml)	Date	07-Aug	09-Aug	13-Aug	20-Aug	27-Aug	04-Sep	12-Sep	18-Sep	25-Sep	02-Oct	09-Oct
			Day	0	2	6	13	20	28	36	42	49	56	63
Unseeded Blanks	0	0	DO 1	8.29	8.31	8.17	8.11	8.06	8.02	8.05	8.06	8.1	8.03	7.99
	0	0	DO 2	8.3	8.32	8.23	8.2	8.19	8.15	8.18	8.12	8.18	8.09	8.05
	0	0	DO 3	8.31	8.32	8.24	8.21	8.18	8.1	8.21	8.19	8.28	8.17	8.12
Average Blank Depletion				**0**	**-0.02**	**0.09**	**0.13**	**0.16**	**0.21**	**0.15**	**0.18**	**0.11**	**0.20**	**0.25**
Seeded Blanks	0	2	D.O.											
			BOD	0	0	0	0	0	0	0	0			
	0	2	D.O.											
			BOD	0	0	0	0	0	0	0	0			
	0	2	D.O.											
			BOD	0	0	0	0	0	0	0	0			
Ave Seeded Blank Depletion				**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**			

			Day	0	2	6	13	20	28	36	42	49	56	63	Reaer 1	Reaer 2	Reaer 3	Bottle Kd	CBODu	NBODu	TBOD	TBOD Final
GNP West	30	0	D.O.	8.12	7.42	6.18	4.81	2.74	6.71	6.01	5.53	5.12	4.76	4.54	7.19			0.055	62	18	80	80
			BOD	0	7	19	32	52	57	64	69	73	76	78								
	10	0	D.O.	8.28	7.95	7.54	7.12	6.73	6.27	5.93	5.79	5.71	5.55	5.43				0.055	62		80	
			BOD	0	10	20	31	42	54	66	70	74	76	78								
Millinocket	30	0	D.O.	8.48	8.35	7.79	1.43	4.05	6.3	6.1	5.9	5.65	5.37	5.24	6.4	7.3		0.1	25	86	111	102
			BOD	0	1	6	69	93	102	105	106	109	111	112								
	10	0	D.O.	8.35	8.27	8.17	6.98	6.09	5.39	5.28	5.21	5.17	5.08	5.07				0.1	7		93	
			BOD	0	3	3	37	63	83	88	89	92	92	91								
GNP East	200	0	D.O.	8.59	7.88	7.02	5.65	4.96	4.25	3.88	3.7	3.52	3.21	3.08				0.06	6.3	1.7	8	8.1
			BOD	0	1.1	2.3	4.3	5.4	6.4	7.0	7.2	7.5	8.0	8.1								
	100	0	D.O.	8.44	8.06	7.73	7.15	6.72	6.35	6.17	5.96	5.88	5.61	5.53				0.05	6.5		8.2	
			BOD	0	1.2	2.0	3.6	4.8	5.8	6.5	7.1	7.5	8.1	8.2								
Eastern Paper Lincoln	30	0	D.O.	8.29	7.12	4.05	3.13	4.94	3.23	5.92	5.24	4.58	3.88	3.48	6.45	7.04	7.45	0.05	145	8	153	147
			BOD	0	12	42	74	95	112	128	134	141	148	151								
	10	0	D.O.	8.29	8.07	7.04	5.94	5.29	4.71	4.19	4.04	3.88	3.61	3.49				0.05	132		140	
			BOD	0	7	35	67	85	101	119	122	129	135	137								
Old Town	30	0	D.O.	7.69	5.26	3.81	0.5	5.31	4.47	3.97	3.86	3.73	3.51	3.43	6.23	7.35		0.12	80	51	131	111
			BOD	0	24	38	95	115	123	129	129	131	133	133								
	10	0	D.O.	8.18	7.74	7.23	6.92	5.94	5.18	5.05	5.1	5.08	4.95	4.83				0.12	40		91	
			BOD	0	14	26	34	63	84	89	87	90	91	93								
Georgia Pacific Old Town	100	0	D.O.	8.27	6.85	3.09	3.67	5.9	4.3	3.1	6.21	5.49	4.74	4.25	6.3	6.86	7.03	0.05	38	4.0	42	39
			BOD	0	4	15	23	26	31	34	37	39	41	43								
	30	0	D.O.	8.27	7.97	7.36	6.76	6.15	5.44	5.06	4.97	4.81	4.53	4.46				0.05	32		36	
			BOD	0	3	8	14	20	26	31	31	34	36	36								
Orono	200	2	D.O.	8.65	6.86	3.53	2.86	5.1	3.96	3.14	6.25	5.7	5.07	4.78	6.39	6.83	6.79	0.08	16	4	20	20
			BOD	0.0	2.7	7.6	12.9	15.5	17.2	18.4	19.2	20.1	21.0	21.4								
	100	2	D.O.	8.48	7.71	6.34	4.59	3.8	3.05	2.62	6.05	5.88	5.52	5.38	6.23			0.08	15		19	
			BOD	0.0	2.3	6.2	11.4	13.7	15.9	17.3	17.8	18.4	19.3	19.6								

Ultimate BOD Penobscot River Effluents

07-Aug

Indicates reaeration of sample occurred

Location	Effl Vol (ml)	Seed Vol (ml)	Date	07-Aug	09-Aug	13-Aug	20-Aug	27-Aug	04-Sep	12-Sep	18-Sep	25-Sep	02-Oct	09-Oct				Bottle Kd	CBODu	NBODu	TBOD	TBOD Final
			Day	0	2	6	13	20	28	36	42	49	56	63	Reaer 1	Reaer 2	Reaer 3					
Bangor	100	0	D.O.	8.85	8.27	6.86	0.97	1.43	5.31	4.06	3.57	3	2.47	2.2	5.47	6.79		0.06	25	26	51	48
			BOD	0	2	6	23	35	40	44	45	47	48	49								
	30	0	D.O.	8.39	8.26	7.84	7	5.2	4.6	4.26	4.23	4.15	3.93	3.94				0.06	19		45	
			BOD	0	1	5	13	30	36	40	40	41	43	42								
Brewer	200	0	D.O.	8.26	7.42	6.22	5.03	4.35	3.67	3.25	3.21	2.88	2.73	2.63				0.08	7	1	8	7.6
			BOD	0.0	1.3	3.0	4.8	5.8	6.8	7.4	7.5	8.0	8.2	8.3								
	100	0	D.O.	8.2	7.9	7.38	6.9	6.54	6.21	5.98	6.15	5.88	5.68	5.66				0.06	6.2		7.2	
			BOD	0.0	0.9	2.3	3.6	4.7	5.5	6.4	5.8	6.7	7.2	7.1								
International Paper Bucksport	100	0	D.O.	8.25	7.77	6.06	4.77	3.91	3.04	6.72	6.54	5.71	4.9	4.65	7.48			0.04	21	2	23	22
			BOD	0.0	1.5	6.4	10.2	12.7	15.2	17.6	18.1	20.7	23.0	23.6								
	30	0	D.O.	8.21	8.11	7.64	7.25	6.98	6.75	6.52	6.72	6.44	6.19	6.08				0.04	18		20	
			BOD	0.0	1.2	4.9	8.5	10.9	12.7	15.5	13.3	16.7	18.4	19.1								
Point Source Duplicate	200	0	D.O.	8.43	7.68	6.49	5.41	4.75	4.14	3.7	3.7	3.45	3.18	3.08				0.06	7.5	0.4	7.5	7.4
			BOD	0.0	1.1	2.9	4.5	5.4	6.3	7.0	7.0	7.4	7.8	7.9								
	100	0	D.O.	8.31	7.92	7.35	6.84	6.46	6.13	5.89	6.02	5.78	5.56	5.55				0.06	7.3		7.3	
			BOD	0.0	1.2	2.7	4.2	5.2	6.1	7.0	6.5	7.4	7.8	7.8								
			D.O.																			
			BOD																			
			D.O.																			
			BOD																			

Ultimate BOD Penobscot River

08-Aug

Indicates reaeration of sample occurred

Sample Location	Sta Code	Date	08-Aug	10-Aug	15-Aug	22-Aug	29-Aug	05-Sep	19-Sep	26-Sep	04-Oct	09-Oct			Reaer 1	Reaer 2		CBODu	NBODu	TBOD	Bottle Kd
		Day	0	2	7	14	21	28	42	49	57	62									
Ferguson Lake	WBP1	DO	7.66	7.56	7.07	6.54	6.19	5.79	5	4.76	4.27	4.15						3.6	0.4	4	0.03
		BOD	0	0.1	0.59	1.12	1.47	1.87	2.66	2.9	3.39	3.51									
Dolby Pond Inlet	WBP2	DO	7.42	7.2	6.28	5.27	4.56	4.01	3.25	3.01	2.66	2.55						4.6	0.6	5.2	0.045
		BOD	0	0.22	1.14	2.15	2.86	3.41	4.17	4.41	4.76	4.87									
Dolby Pond Dam	WBP3	DO	7.66	7.24	6.3	5.41	4.67	4.03	3.17	2.93	2.53	2.38						5.1	0.6	5.7	0.04
		BOD	0	0.42	1.36	2.25	2.99	3.63	4.49	4.73	5.13	5.28									
Rockabema Dam	WBP5	DO	7.05	6.64	5.7	4.67	3.86	3.3	2.54	6.58	6.07	5.84	6.9					4.9	1	5.9	0.045
		BOD	0	0.41	1.35	2.38	3.19	3.75	4.51	4.83	5.34	5.57									
Weldon Dam	Pn1	DO	8.53	8.04	6.96	6.32	5.71	5.03	4.22	4.05	3.64	3.5						5.1	0.5	5.6	0.045
		BOD	0	0.49	1.57	2.21	2.82	3.5	4.31	4.48	4.89	5.03									
North Lincoln	Pn3	DO	7.72	7.42	6.66	5.89	5.26	4.76	4.01	3.66	3.28	3.18						5	0.4	5.4	0.03
		BOD	0	0.3	1.06	1.83	2.46	2.96	3.71	4.06	4.44	4.54									
South Lincoln	Pn4	DO	7.26	6.87	6.05	5.43	4.9	4.28	3.48	3.27	2.96	2.86						4.8	0.3	5.1	0.032
		BOD	0	0.39	1.21	1.83	2.36	2.98	3.78	3.99	4.3	4.4									
West Enfield Dam	Pn5	DO	7.77	7.52	6.77	6.19	5.73	5.24	4.53	4.31	3.92	3.76						4.5	0.4	4.9	0.027
		BOD	0	0.25	1	1.58	2.04	2.53	3.24	3.46	3.85	4.01									
Milford Dam	Pn9	DO	8.21	7.97	7.18	6.59	6.14	5.58	4.83	4.45	4	3.9						5.4	0.3	5.7	0.022
		BOD	0	0.24	1.03	1.62	2.07	2.63	3.38	3.76	4.21	4.31									
Veazie Dam	Pn12	DO	8.38	8.01	7.5	6.88	6.37	5.83	5.08	4.82	4.42	4.32						5	0.3	5.3	0.024
		BOD	0	0.37	0.88	1.5	2.01	2.55	3.3	3.56	3.96	4.06									
Bangor Dam	Pn13	DO	8.42	7.85	7.23	6.58	6.04	5.47	4.52	4.2	3.78	3.62						5.3	0.4	5.7	0.03
		BOD	0	0.57	1.19	1.84	2.38	2.95	3.9	4.22	4.64	4.8									
River Duplicate	DUPR	DO	7.86	7.93	7.58	7.15	6.9	6.66	6.1	5.92	5.59	5.49						3	0.2	3.2	0.02
		BOD	0	-0.07	0.28	0.71	0.96	1.2	1.76	1.94	2.27	2.37									
South Brewer	PnE2	DO	7.95	7.47	6.84	6.07	5.47	4.74	3.98	3.7	3.33	3.22						5.3	0.3	5.6	0.03
		BOD	0	0.48	1.11	1.88	2.48	3.21	3.97	4.25	4.62	4.73									
Orrington Center	PnE5	DO	8.46	8.06	7.4	6.68	6.06	5.36	4.42	4.16	3.85	3.75						4.2	0.5	4.7	0.03
		BOD	0	0.4	1.06	1.78	2.4	3.1	4.04	4.3	4.61	4.71									
South Orrington	PnE7	DO	8.62	8.19	7.55	6.94	6.43	5.89	5.14	4.79	4.48	4.41						4.3	0.5	4.8	0.035
		BOD	0	0.43	1.07	1.68	2.19	2.73	3.48	3.83	4.14	4.21									
Winterport	PnE9	DO	8.69	8.12	7.41	6.64	6.02	5.52	4.91	4.77	4.36	4.18						4.2	0.6	4.8	0.045
		BOD	0	0.57	1.28	2.05	2.67	3.17	3.78	3.92	4.33	4.51									
Fort Knox	PnE12	DO	9.19	8.69	7.91	7.26	6.8	6.24	5.54	5.48	5.23	5.2						3.6	0.6	4.2	0.055
		BOD	0	0.5	1.28	1.93	2.39	2.95	3.65	3.71	3.96	3.99									
Estuary Duplicate	DUPE	DO	9.03	8.68	7.98	7.35	6.85	6.21	5.39	5.25	4.83	4.72						4.8	0.3	5.1	0.03
		BOD	0	0.35	1.05	1.68	2.18	2.82	3.64	3.78	4.2	4.31									
Millinocket Stream	MIS	DO	7.38	7.37	6.85	6.14	5.6	5.02	4.24	4.2	3.93	3.87						3.5	0.6	4.1	0.035
		BOD	0	0.01	0.53	1.24	1.78	2.36	3.14	3.18	3.45	3.51									
East Branch Penobscot	EBPn	DO	7.67	7.6	7.3	6.75	6.46	6	5.49	5.36	4.91	4.76						3.8	0.2	4	0.02
		BOD	0	0.07	0.37	0.92	1.21	1.67	2.18	2.31	2.76	2.91									
Mattawamkeag River	MAR	DO	7.7	7.59	6.98	6.22	Broke Bottle 8/27/01													0	
		BOD	0	0.11	0.72	1.48															
Piscataquis River	PIR	DO	7.97	7.83	7.35	6.77	6.33	5.86	5.35	4.95	4.52	4.39						3.6	0.3	3.9	0.03
		BOD	0	0.14	0.62	1.2	1.64	2.11	2.62	3.02	3.45	3.58									
Stillwater River	StR	DO	8.45	8.2	7.7	7.16	6.82	6.32	5.78	5.54	5.15	5.04						3.6	0.3	3.9	0.03
		BOD	0	0.25	0.75	1.29	1.63	2.13	2.67	2.91	3.3	3.41									
Tributary Duplicate	DUPT	DO	8.68	8.46	7.88	7.19	6.79	6.25	5.43	5.24	4.9	4.8						4.1	0.3	4.4	0.032
		BOD	0	0.22	0.8	1.49	1.89	2.43	3.25	3.44	3.78	3.88									
Passadumkeag River	PaR	DO	9.14	8.83	8.22	7.51	6.91	6.38	5.68	5.31	4.83	4.69						4.8	0.2	5	0.03
		BOD	0	0.31	0.92	1.63	2.23	2.76	3.46	3.83	4.31	4.45									

Ultimate BOD Penobscot River

08-Aug

Indicates reaeration of sample occurred

	Sta Code	Date	08-Aug	10-Aug	15-Aug	22-Aug	29-Aug	05-Sep	19-Sep	26-Sep	04-Oct	09-Oct			Reaer 1	Reaer 2		CBODu	NBODu	TBOD	Bottle Kd
		Day	0	2	7	14	21	28	42	49	57	62									
Pushaw Stream	PuS	DO	8.97	8.37	7.39	6.64	6.06	5.3	4.44	3.94	3.38	3.2						5.8	0.6	6.4	0.035
		BOD	0	0.6	1.58	2.33	2.91	3.67	4.53	5.03	5.59	5.77									
Kenduskeag Stream	KeS	DO	8.04	7.73	7.14	6.5	5.95	5.41	4.95	4.74	4.39	4.33						3.5	0.5	4	0.042
		BOD	0	0.31	0.9	1.54	2.09	2.63	3.09	3.3	3.65	3.71									
Soudabascook Stream	SoS	DO	7.63	7.44	6.93	6.33	5.92	5.45	4.99	4.79	4.42	4.35						3.5	0.3	3.8	0.032
		BOD	0	0.19	0.7	1.3	1.71	2.18	2.64	2.84	3.21	3.28									
Marsh Stream	MaS	DO	9.09	8.6	7.92	7.25	6.73	6.12	5.4	5.16	4.79	4.71						4.5		4.5	0.037
		BOD	0	0.49	1.17	1.84	2.36	2.97	3.69	3.93	4.3	4.38									

Ultimate BOD Penobscot River Effluents

08-Aug

Indicates reaeration of sample occurred

Location	Effl Vol (ml)	Seed Vol (ml)	Date	08-Aug	10-Aug	15-Aug	22-Aug	29-Aug	05-Sep	19-Sep	26-Sep	04-Oct	09-Oct	
			Day	0	2	7	14	21	28	42	49	57	62	
Unseeded Blanks	0	0	DO 1	8.16	8.15	8.08	7.78	7.79	7.75	7.74	7.86	7.58	7.48	
	0	0	DO 2	8.2	8.22	8.09	7.94	8.01	7.96	7.78	7.95	7.82	7.82	
	0	0	DO 3	8.23	8.26	8.17	8.05	8.04	8.01	7.96	8.13	7.91	7.88	
Average Blank Depletion				**0**	**-0.01**	**0.08**	**0.27**	**0.25**	**0.29**	**0.37**	**0.22**	**0.43**	**0.47**	
Seeded Blanks	0	2	D.O.											
			BOD	0	0	0	0	0	0	0	0			
	0	2	D.O.											
			BOD	0	0	0	0	0	0	0	0			
	0	2	D.O.											
			BOD	0	0	0	0	0	0	0	0			
Ave Seeded Blank Depletion				**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**			

			Day	0	2	7	14	21	28	42	49	57	62	12	Reaer 1	Reaer 2	Reaer 3	Bottle Kd	CBODu	NBODu	TBOD
GNP West	30	0	D.O.	8.06	7.37	5.83	4.28	2.68	5.56	4.28	3.98	3.46	3.32		6.79			0.055	65	20.0	85
			BOD	0	7	22	35	52	63	76	80	83	84								
	10	0	D.O.	8.15	7.98	7.46	6.84	6.33	5.77	5.21	5.20	4.97	4.94					0.04	72		92
			BOD	0	5	18	31	47	63	77	82	83	83								
Millinocket	30	0	D.O.	8.37	8.26	6.91	0.16	3.94	3.54	3.11	2.9	2.63	2.58		5.64			0.12	18	90	108
			BOD	0	1	14	80	97	100	104	108	108	108								
	10	0	D.O.	8.24	8.21	7.97	6.14	5.41	4.97	4.81	4.87	4.74	4.8					0.12	4		94
			BOD	0	1	6	55	78	90	92	95	93	90								
GNP East	200	0	D.O.	8.1	7.41	5.92	3.85	6.05	5.1	3.95	3.65	3.17	3.02		7.11			0.06	10	2.2	12.2
			BOD	0	1.0	3.2	6.2	7.8	9.2	10.9	11.5	12.1	12.3								
	100	0	D.O.	8.15	7.88	7.33	6.36	5.88	5.47	4.98	4.94	4.72	4.71					0.06	7.5		9.7
			BOD	0.0	0.8	2.3	4.8	6.3	7.5	8.8	9.2	9.4	9.4								
Eastern Paper Lincoln	30	0	D.O.	8.19	7.2	3.75	2.97	3.91	2.16	4.05	3.44	2.79	2.55		6.22	5.83	6.63	0.05	152	9	161
			BOD	0	10	44	74	94	111	136	144	148	150								
	10	0	D.O.	8.2	8.03	6.64	5.37	4.72	4.11	3.16	2.97	2.69	2.61					0.1	120		129
			BOD	0	5	44	77	97	114	140	151	153	154								
Old Town	30	0	D.O.	8.09	6.24	3.86	5.81	4.94	4.29	3.66	3.65	3.4	3.36	1.36	7.17	6.61		0.12	78	51	129
			BOD	0	19	42	106	115	121	127	128	129	129	100							
	10	0	D.O.	8.16	7.9	7.33	6.68	4.9	4.62	4.33	4.45	4.33	4.36					0.1	54		105
			BOD	0	8	22	36	91	98	104	105	103	100								
Georgia Pacific Old Town	100	0	D.O.	8.09	6.91	4.26	4.02	4.74	3.31	4.87	4.21	3.41	3.09		6.85	7.22	6.97	0.04	43	4.0	47
			BOD	0	4	11	19	27	31	37	40	42	42								
	30	0	D.O.	8.18	7.97	7.33	6.63	5.8	5.17	4.58	4.53	4.26	4.2					0.04	35		39
			BOD	0	2	8	13	22	27	33	35	35	36								
Orono	200	2	D.O.	8.92	6.98	4.08	1.43	3.06	5.67	4.32	3.96	3.44	3.31		4.48	6.97		0.06	19	0	19
			BOD	0.0	2.9	7.2	11.1	13.2	15.2	17.2	17.8	18.4	18.6								
	100	2	D.O.	8.52	7.69	6.44	5.05	4.21	3.7	3.05	2.9	2.66	2.65					0.06	17		17
			BOD	0.0	2.5	6.1	9.9	12.4	13.9	15.7	16.4	16.7	16.7								

Ultimate BOD Penobscot River Effluents

08-Aug

Indicates reaeration of sample occurred

Location	Effl Vol (ml)	Seed Vol (ml)	Date	08-Aug	10-Aug	15-Aug	17-Aug	20-Aug	22-Aug	29-Aug	05-Sep	19-Sep	26-Sep	04-Oct	09-Oct					Bottle Kd	CBODu	NBODu	TBOD
			Day	0	2	7	9	12	14	21	28	42	49	57	62		Reaer 1	Reaer 2	Reaer 3				
Bangor	100	0	D.O.	8.32	7.68	5.59	3.53	2.82	3.58	5.46	4.29	2.3	6.01	5.17	4.83		6.88	6.03	7.05	0.08	24	26	50
			BOD	0	2	8	14	26	33	38	42	47	49	52	53		6.56						
	30	0	D.O.	8.18	8.05	7.56			6.16	4.59	4.29	3.76	3.81	3.69	3.68					0.08	17		43
			BOD	0	1	5			18	34	36	41	42	41	41								
Brewer	200	0	D.O.	8.5	7.41	5.76			4.53	3.99	3.35	2.72	6.66	6.3	6.21		6.78			0.08	7.5	1	8.8
			BOD	0.0	1.6	4.1			5.8	6.6	7.6	8.5	8.7	9.2	9.3								
	100	0	D.O.	8.36	7.9	7.25			6.61	6.31	5.97	5.46	5.56	5.36	5.33					0.05	7.5		8.8
			BOD	0.0	1.4	3.2			4.7	5.4	6.7	7.8	7.5	9.0	9.1								
International Paper Bucksport	100	0	D.O.	8.29	7	3.66			3.95	5.25	3.2	5.04	4.7	4.22	4.03		6.17	6.89	6.76	0.05	34	7	41
			BOD	0.0	3.9	13.7			20.0	24.7	31.2	35.9	36.9	39.2	39.8								
	30	0	D.O.	8.17	7.86	7.05			6.33	6.07	5.76	5.15	4.86	4.63	4.57					0.04	28		35
			BOD	0.0	3.2	10.5			15.9	18.8	21.5	26.9	31.2	31.6	31.8								
Point Source Duplicate	100	0	D.O.	8.35	7.43	5		3.35	5.89	4.1	2.54	5.23	4.79	4.25	4.07		6.48	7.11		0.04	33	6	39
			BOD	0.0	2.8	9.9		14.5	16.2	21.4	26.4	31.6	32.8	35.4	35.9								
	30	0	D.O.	8.24	8.01	7.55			6.81	6.38	5.78	5.08	5.11	4.87	4.85					0.04	26		32
			BOD	0	2	6			12	15	23	28	27	34	34								
Lincoln	100		D.O.	8.57	7.24	4.3			4.56	3.42	2.61	5.54	5.38	5	4.86		6.95	6.74		0.08	21	9	30
			BOD	0.0	4.0	12.6			19.4	22.9	25.2	28.7	29.5	30.2	30.5								
	30		D.O.	8.3	8.01	7.27			6.46	6.01	5.68	5.32	5.43	5.26	5.3					0.08	18		27
			BOD	0.0	3.0	9.6			15.9	20.7	23.6	26.5	26.8	26.6	25.8								
Howland	100		D.O.	8.28	7.37	5.05			2.85	4.41	2.84	5.42	4.95	4.25	3.98		6.49	7.34		0.04	34	6	40
			BOD	0	3	10			16	22	27	32	34	36	36								
	30		D.O.	8.23	8.1	7.47			6.85	6.22	5.72	5.19	5.18	4.91	4.86					0.04	27		33
			BOD	0	1	7			11	18	22	27	29	29	29								
Winterport	10		D.O.																			151	
			BOD																				
	3		D.O.	8.08	7.15	6.44			5.95	5.89	5.69	5.02	4.55	4.4	4.44					0.05	170		321
			BOD	0	94	156			184	182	218	264	306	368	364								

Ultimate BOD Penobscot River

09-Aug

Indicates reaeration of sample occurred

Sample Location	Sta Code	Date	09-Aug	10-Aug	15-Aug	22-Aug	29-Aug	05-Sep	19-Sep	27-Sep	10-Oct				Reaer 1	Reaer 2	CBODu	NBODu	TBOD	Bottle Kd
		Day	0	1	6	13	20	27	41	49	62									
Ferguson Lake	WBP1	DO	7.97	7.96	7.43	6.67	6.37	6.02	5.09	4.97	4.61						3.6	0.35	3.95	0.03
		BOD	0	0.01	0.54	1.3	1.6	1.95	2.88	3	3.36									
Dolby Pond Inlet	WBP2	DO	7.91	7.82	6.72	5.65	5.04	4.46	3.63	3.4	2.98						4.7	0.6	5.3	0.045
		BOD	0	0.09	1.19	2.26	2.87	3.45	4.28	4.51	4.93									
Dolby Pond Dam	WBP3	DO	7.79	7.63	6.4	5.31	4.61	3.78	2.87	6.99	6.38				7.29		5.4	0.6	6	0.045
		BOD	0	0.16	1.39	2.48	3.18	4.01	4.92	5.22	5.83									
Rockabema Dam	WBP5	DO	7.23	7.12	6	4.92	4.22	3.64	2.71	7.12	6.54				7.36		4.7	0.7	5.4	0.05
		BOD	0	0.11	1.23	2.31	3.01	3.59	4.52	4.76	5.34									
Weldon Dam	Pn1	DO	7.75	7.61	6.28	5.04	4.29	3.39	2.14	6.7	6.02				7.09		6.6	0.5	7.1	0.04
		BOD	0	0.14	1.47	2.71	3.46	4.36	5.61	6	6.68									
North Lincoln	Pn3	DO	7.52	7.51	6.88	6.17	5.79	5.31	4.6	4.5	4.06						3.1	0.4	3.5	0.045
		BOD	0	0.01	0.64	1.35	1.73	2.21	2.92	3.02	3.46									
South Lincoln	Pn4	DO	7.46	7.36	6.41	5.59	5.21	4.67	3.87	3.69	3.29						4.1	0.4	4.5	0.04
		BOD	0	0.1	1.05	1.87	2.25	2.79	3.59	3.77	4.17									
West Enfield Dam	Pn5	DO	8.82	8.68	7.85	7.08	6.73	6.19	5.37	5.24	4.83						3.9	0.4	4.3	0.04
		BOD	0	0.14	0.97	1.74	2.09	2.63	3.45	3.58	3.99									
Milford Dam	Pn9	DO	8.6	8.57	7.91	7.01	6.77	6.05	5.21	5.08	4.66						3.6	0.7	4.3	0.04
		BOD	0	0.03	0.69	1.59	1.83	2.55	3.39	3.52	3.94									
Veazie Dam	Pn12	DO	8.8	8.79	7.97	7.04	6.65	6.05	5.01	4.7	4.21						5.1	0.3	5.4	0.03
		BOD	0	0.01	0.83	1.76	2.15	2.75	3.79	4.1	4.59									
Bangor Dam	Pn13	DO	8.08	8.03	7.39	6.57	6.33	5.88	5	4.87	4.44						3.7	0.4	4.1	0.035
		BOD	0	0.05	0.69	1.51	1.75	2.2	3.08	3.21	3.64									
River Duplicate	DUPR	DO	8.46	8.41	7.7	6.87	6.67	6.14	5.34	5.22	4.8						3.7	0.5	4.2	0.035
		BOD	0	0.05	0.76	1.59	1.79	2.32	3.12	3.24	3.66									
South Brewer	PnE2	DO	8.18	8.15	7.47	6.64	6.41	5.9	5.12	5.02	4.63						3.5	0.6	4.1	0.035
		BOD	0	0.03	0.71	1.54	1.77	2.28	3.06	3.16	3.55									
Orrington Center	PnE5	DO	8.83	8.86	8.18	7.38	7.23	6.81	5.89	5.81	5.42						3.3	0.6	3.9	0.035
		BOD	0	-0.03	0.65	1.45	1.6	2.02	2.94	3.02	3.41									
South Orrington	PnE7	DO	8.84	8.74	8	7.03	6.69	6.29	5.41	5.33	4.93						3.7	0.7	4.4	0.04
		BOD	0	0.1	0.84	1.81	2.15	2.55	3.43	3.51	3.91									
Winterport	PnE9	DO	9	8.96	8.36	7.52	7.42	7.1	6.26	6.3	6.07						2.7	0.5	3.2	0.04
		BOD	0	0.04	0.64	1.48	1.58	1.9	2.74	2.7	2.93									
Fort Knox	PnE12	DO	8.72	8.63	7.69	7.08	7.03	6.8	6.07	5.97	5.85						2.6	0.6	3.2	0.045
		BOD	0	0.09	1.03	1.64	1.69	1.92	2.65	2.75	2.87									
Estuary Duplicate	DUPE	DO	8.62	8.56	7.97	6.89	6.79	6.34	5.42	5.37	5.09						3.2	0.6	3.8	0.045
		BOD	0	0.06	0.65	1.73	1.83	2.28	3.2	3.25	3.53									
Millinocket Stream	MIS	DO	8.1	8.18	7.82	7.06	7.01	6.65	5.95	5.98	5.72						2.2	0.3	2.5	0.045
		BOD	0	-0.08	0.28	1.04	1.09	1.45	2.15	2.12	2.38									
East Branch Penobscot	EBPn	DO	8.88	8.89	8.51	7.78	7.76	7.41	6.72	6.77	6.47						2.3	0.2	2.5	0.05
		BOD	0	-0.01	0.37	1.1	1.12	1.47	2.16	2.11	2.41									
Mattawamkeag River	MAR	DO	8.1	8.18	7.74	6.93	6.77	6.24	5.39	5.29	4.84						4.4	0.2	4.6	0.02
		BOD	0	-0.08	0.36	1.17	1.33	1.86	2.71	2.81	3.26									
Piscataquis River	PIR	DO	8.93	8.77	8.34	7.46	7.35	6.73	5.92	5.86	5.6						3.2	0.6	3.8	0.035
		BOD	0	0.16	0.59	1.47	1.58	2.2	3.01	3.07	3.33									
Stillwater River	StR	DO	8.16	8.13	7.74	6.92	6.82	6.33	5.43	5.32	4.82						3.2	0.5	3.7	0.035
		BOD	0	0.03	0.42	1.24	1.34	1.83	2.73	2.84	3.34									
Tributary Duplicate	DUPT	DO	8.57	8.52	8.09	7.22	7.1	6.47	5.57	5.42	4.91						3.8	0.4	4.2	0.03
		BOD	0	0.05	0.48	1.35	1.47	2.1	3	3.15	3.66									

Ultimate BOD Penobscot River Effluents

09-Aug

Indicates reaeration of sample occurred

Location	Effl Vol (ml)	Seed Vol (ml)	Date	09-Aug	10-Aug	15-Aug	17-Aug	21-Aug	22-Aug	29-Aug	05-Sep	19-Sep	27-Sep	10-Oct			
			Day	0	1	6	8	12	13	20	27	41	49	62			
Unseeded Blanks	0	0	DO 1	7.93	8.03	7.79			7.59	7.69	7.69	7.38	7.58	7.56			
	0	0	DO 2	7.99	8.19	8.04			7.91	8.03	7.99	7.76	7.97	7.92			
	0	0	DO 3	7.99	8.2	8			7.74	7.82	7.79	7.46	7.6	7.52			
Average Blank Depletion				**0**	**-0.17**	**0.03**	**0.08**	**0.19**	**0.22**	**0.12**	**0.15**	**0.44**	**0.25**	**0.30**			
Seeded Blanks	0	2	D.O.														
			BOD	0	0	0	0	0	0	0	0						
	0	2	D.O.														
			BOD	0	0	0	0	0	0	0	0						
	0	2	D.O.														
			BOD	0	0	0	0	0	0	0	0						
Ave Seeded Blank Depletion				**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**						

Location	Effl Vol (ml)	Seed Vol (ml)	Day	0	1	6	8	12	13	20	27	41	49	62	Reaer 1	Reaer 2	Reaer 3	Bottle Kd	CBODu	NBODu	TBOD
GNP West	30	0	D.O.	7.93	7.64	6.02			4.32	3.14	5.52	4.15	3.82	3.25	7.21			0.035	80	19	99
			BOD	0	4	19			34	47	63	75	80	85							
	10	0	D.O.	7.97	7.95	7.69			6.96	6.85	6.44	5.79	5.83	5.65				0.035	51		70
			BOD	0	6	8			24	30	42	53	57	61							
Millinocket	30	0	D.O.	8.12	8.09	7.34			0.26	4.29	3.79	3.03	2.83	2.28	5.83			0.12	10	99	109
			BOD	0	2	8			77	93	98	103	106	111							
	10	0	D.O.	7.97	8.05	7.99			5.52	5.63	4.93	4.45	4.48	4.34				0.06	9		108
			BOD	0	3	-1			67	67	87	93	97	100							
GNP East	200	0	D.O.	8.48	8.22	7.06			4.8	4.14	3.5	2.69	7.4	6.75	7.58			0.06	7.8	1.7	9.5
			BOD	0.0	0.5	2.1			5.4	6.4	7.4	8.5	8.8	9.8							
	100	0	D.O.	8.3	8.24	7.68			6.53	6.26	5.85	5.32	5.32	5.08				0.06	7.3		9.0
			BOD	0.0	0.5	1.8			4.9	5.9	7.1	8.1	8.4	9.1							
Eastern Paper Lincoln	30	0	D.O.	8.06	7.93	5.15			4.5	3.1	1.65	3.82	3.3	2.59	7.5	5.76		0.05	110	9	119
			BOD	0	3	29			57	72	86	103	110	117							
	10	0	D.O.	8.03	8.07	7.25			6.05	5.89	5.81	4.97	4.9	4.66				0.05	84		93
			BOD	0	4	23			53	61	62	79	87	92							
Old Town	30	0	D.O.	7.73	7.42	5.35		2.15	6.33	4.75	4.05	3.33	3.23	2.96	7.13	7.45		0.06	42	62	104
			BOD	0	5	24		72	83	99	106	111	114	116							
	10	0	D.O.	7.93	7.93	7.33			6.6	5.7	4.59	4.34	4.42	4.31				0.12	52		114
			BOD	0	5	17			33	63	96	95	98	100							
Georgia Pacific Old Town	100	0	D.O.	8.02	7.53	4.19			3.66	4.49	2.66	4.68	3.97	2.85	6.84	6.89	7.2	0.04	45	6	51
			BOD	0	2	11			21	28	33	40	43	46							
	30	0	D.O.	7.99	7.96	7.02			5.94	5.51	4.73	4.05	3.87	3.52				0.04	39		45
			BOD	0	2	9			18	24	31	35	39	42							
Orono	200	2	D.O.	8.85	8.13	4.63			3.82	5.17	3.94	2.65	6.67	5.83	6.91	6.79	7.22	0.06	19	0	19
			BOD	0.0	1.2	6.3			10.9	13.3	15.2	17.0	17.9	19.1							
	100	2	D.O.	8.42	8.24	6.63			4.81	4.1	3.41	2.68	6.59	6.1	6.83			0.05	19.5		20
			BOD	0.0	0.9	5.3			10.4	12.7	14.7	16.3	17.4	18.8							

Ultimate BOD Penobscot River Effluents

09-Aug

Indicates reaeration of sample occurred

Location	Effl Vol (ml)	Seed Vol (ml)	Date	08-Aug	10-Aug	15-Aug	17-Aug	20-Aug	22-Aug	29-Aug	05-Sep	19-Sep	26-Sep	04-Oct	09-Oct					Bottle Kd	CBODu	NBODu	TBOD
			Day	0	2	7	9	12	14	21	28	42	49	57	62		Reaer 1	Reaer 2	Reaer 3				
Bangor	100	0	D.O.	8.51	8.59	6.79		1.59	4.92	2.1	4.07	2.35	6.01		4.98		5.66	5.54	6.55	0.06	24	22	46
			BOD	0	0	5		20	23	31	36	40	42		46								
	30	0	D.O.	8.01	8.12	7.69			6.49	5.08	4.6	4.06	4		3.74					0.07	19		41
			BOD	0	0	3			14	28	32	38	39		40								
Brewer	200	0	D.O.	8.57	8.2	5.9			4.19	3.63	2.81	5.75	5.55		4.96		6.93			0.06	10	1.3	11.3
			BOD	0.0	0.6	4.0			6.5	7.3	8.5	10.3	10.6		11.5								
	100	0	D.O.	8.28	8.21	7.12			5.93	5.74	5.31	4.74	4.72		4.38					0.05	10		11.3
			BOD	0.0	0.6	3.4			6.6	7.4	8.6	9.7	10.2		11.7								
International Paper Bucksport	100	0	D.O.	8.51	7.93	4.67	3.83		5.34	3.86	2.04	5.15	4.65		3.45		6.87	6.65		0.05	29	9	38
			BOD	0.0	2.1	11.5	13.9		18.2	22.8	28.2	32.2	34.0		38.1								
	30	0	D.O.	8.11	8.12	7.31			6.33	6.27	5.94	5.37	4.83		4.46					0.04	26		35
			BOD	0.0	1.4	7.8			17.1	16.7	19.7	26.3	31.5		34.2								
Point Source Duplicate	30	0	D.O.	8.09	8.19	7.28	4.63	2.06	5.79	5.1	4.6	3.93	3.79		3.45		7.07	6.94		0.14	16	99	115
			BOD	0	1	8	34	83	94	102	107	111	114		120								
	10	0	D.O.	7.98	8.11	7.84			5.32	5.31	4.54	4.09	4.15		3.97					0.08	16		115
			BOD	0	1	3			73	77	99	104	108		120								
Veazie	30		D.O.	8.32	7.96	4.76			3.27	4.27	2.74	4.4	3.94		3.26		7.41	6.35	6.81	0.05	42	4	46
			BOD	0.0	1.4	10.6			22.7	29.1	33.6	40.3	42.0		44.6								
	10		D.O.	8.04	8.03	7.24			6	5.46	5.02	4.31	4.24		4.04					0.045	36		40
			BOD	0.0	1.6	7.8			19.7	24.1	28.2	36.2	36.7		37.7								
Bucksport	100		D.O.																			173	
			BOD																				
	10		D.O.	8.05	6.17	1.87			4.14	3.66	3.08	3.03	7.03		6.05		5.63	6.84	7.11	0.06	230		403
			BOD	0	20	185			224	241	258	364	371		408								