

#235

Run using average 5 Rounds of River Samples submitted by PSNH in 9/29/10 E-mail fr

Rows 5, 6 and 7 for Cells E on are from most recent FORM 2A or WET testing , mg/l (ve

Facility Name	Qadd, mgd	Existing Q (2009) (see Sheet 2)	Delta Q	Aluminum Total (chronic)	Antimony Total(Chronic)	Arsenic Total (fish con)	Arsenic Diss. (chronic)	Beryllium Total (chronic)
WRBP	11.5	5.96	5.54	0.05	0.005	0.001	0.001	0.002
Penacook	2.37	0.53	1.84	0.02	0.001	0.001	0.001	0.001
Concord	10.1	4.29	5.81	0.002	0.001	0.002	0.002	0.001

Qsum design:	23.97							
Qsum Existing:	10.78							
Delta Qsum:	13.19							
		Cup PSNH (Exist.):	0.04536	0.000046	0.000364	0.000364	0.000060	
		Sum Delta lbs/day:	2.7140028	0.294819	0.15846	0.15846	0.1562082	
		Delta, Cup PSNH, mg/l:	0.000871986	9.47228E-05	5.09118E-05	5.09118E-05	5.01883E-05	

Total Cup PSNH, mg/l (future): 0.046231986 0.000140723 0.000414912 0.000414912 0.000110188

Converted

PSNH Data (Total all 5 river rounds)	as appropriate (Dissolved)	As, total
Al	0.04536	0.001
Sb	0.000046	0.001
As, fish	0.000364	0.002
As, chronic	0.000364	
Be	0.00006	
Cd	0.000021	
Cr+3	0.000212	
Cr+6	ND	
Cu	0.00056	
Pb	0.00012	
Hg, fish	0.000001	
Hg, chronic	0.000001	
Ni	0.00026	
Se	0.00052	
Ag, acute	0.000024	
Tl	0.000009	
Zn	0.001935	
Mn	0.0272	

US 7Q10 = [587.75 cfs - (5.29 mgd/0.646) - (1.19mgd/0.646)] = 577.7 cfs (used in Row

Jim Allan Palmer

Values not highlighted yellow are set to detection limit

Cadmium Diss. (chronic)	Chromium+3 Diss. (chronic)	Chromium+6 Diss. (chronic)	Copper Diss. (chronic)	Lead Diss. (chronic)	Mercury Total (fish con)	Mercury Diss. (chronic)	Nickel Diss. (chronic)	Selenium Total (chronic)
0.0004835	0.00172	0.00172	0.01056	0.0006951	0.0005	0.000425	0.001994	0.005
0.0004835	0.00086	0.00086	0.01152	0.0004965	0.0005	0.000425	0.003988	0.001
0.000967	0.00172	0.00172	0.02784	0.002979	0.0002	0.00017	0.004985	0.001
0.00002104	0.0001823	0.000340	0.0005376	0.0001192	0.00000100	0.00000085	0.0002592	0.000520
0.07661541	0.176010696	0	2.013689664	0.184083849	0.04046568	0.034395828	0.3948784	0.294819
2.46159E-05	5.65507E-05	0	0.000646981	5.91446E-05	1.30013E-05	1.10511E-05	0.000126871	9.47228E-05
4.56559E-05	0.000238851	0.00034	0.001184581	0.000178345	1.40013E-05	1.19011E-05	0.000386071	0.000614723
Cd, total	Cr+3, total	Cr+6, total	Cu, total	Pb, total	Hg, total	Ni, total	5 rounds samples for selenium	
0.0005	0.002	0.002	0.011	0.0007	0.0005	0.002		
0.0005	0.001	0.001	0.012	0.0005	0.0005	0.004		
0.001	0.002	0.002	0.029	0.003	0.0002	0.005		

/ 13 Calcs)

Silver Diss. (acute)	Thallium Total (w + f)	Zinc Diss. (chronic)	Manganese Total (w & f)	Iron Total (chronic)	Ammonia Total (chronic)	Nitrate Total (w + F)	Chloride Total (chronic)
0.0085	0.001	0.030566			17		
0.00085	0.001	0.057188			10	0.5	
0.00085	0.001	0.05423			17.8	0.5	
0.0000204	0.000009	0.0019079	0.027200	0.272000	0.080000	0.500000	17.000
0.44696145	0.1100046	4.917579752		0	1801.42332	31.9005	0
0.000143605	3.53435E-05	0.001579976		0	0.578781771	0.010249355	0
0.000164005	4.43435E-05	0.003487876	0.0272	0.272	0.658781771	0.510249355	17
Ag, total							
0.01		0.031					
0.001		0.058					
0.001		0.055					
Zn, total							

6 rounds samples
for chloride

2009 Flows (monthly average, MGD)

	WRBP	Penacook	Concord
January	5.059	0.45	4.02
February	4.624	0.43	4.17
March	7.491	0.79	5.38
April	7.886	0.8	5.94
May	5.307	0.47	4.2
June	5.793	0.52	3.89
July	7.509	0.67	4.4
August	6.354	0.49	4.06
September	4.336	0.33	3.38
October	5.155	0.42	3.81
November	5.796	0.51	4.03
December	6.191	0.5	4.22
Average:	5.96	0.53	4.29

