

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
1																
2		Annual Respondent Burden/Cost Estimates														
3																
4		Collection Activities	Annual # Respondents ¹	Burden				Labor Cost ³					Non-Labor Cost		Labor Plus Non-Labor	
5	Manager			Chemist ²	Record Clerk	Total Burden (hours/year)		Manager ⁴	Chemist ⁵	Record Clerk ⁶	Labor Costs		Cost of Standards per PT Analysis		Average Labor plus Non-Labor Costs	
6	hours /year			hours /year	hours /year	Per Respondent	All Respondents	at \$54.28/hour	at \$24.64/hour	at \$13.24/hour	per Respondent	All Respondents	(@\$260/lab, or \$165/Respondent)	All Respondents	All Respondents	
7	Read Instructions	7,516	0.2	0.3	0	0.5	3,758	\$10.86	\$7.39	\$0.00	\$18.25	\$137,151.97	\$0	\$0	\$137,152	
8	Plan activities	7,516	0.2	0.3	0	0.5	3,758	\$10.86	\$7.39	\$0.00	\$18.25	\$137,151.97	\$0	\$0	\$137,152	
9	Analyze Chemistry/Microbiology	7,516	0	1.8	0	1.8	13,529	\$0.00	\$44.35	\$0.00	\$44.35	\$333,349.63				
10	Analyze WET	7,516	0	2.4	0	2.4	18,038	\$0.00	\$59.14	\$0.00	\$59.14	\$444,466.18	\$165	\$1,240,140	\$2,017,956	
11	Report Results	7,516	0.3	0	0.7	1	7,516	\$16.28	\$0.00	\$9.27	\$25.55	\$192,048.83	\$0	\$0	\$192,049	
12	Maintain Records	7,516	0	0	0.1	0.1	752	\$0.00	\$0.00	\$1.32	\$1.32	\$9,951.18	\$0	\$0	\$9,951	
13	Total	7,516				6.3	47,351					\$1,254,120	\$165	\$1,240,140	\$2,494,260	
14	Total Annual # Responses:	7,516				Avg. Labor (hours) per Respondent:	6.3				Cost Per Respondent :	\$167	Ave. Non-Labor Cost Per Respondent:	\$165		
15																
16		¹ Historic records indicate that 7,516 NPDES permittees participate in the DMR-QA program. Most participate in the Chemistry/Microbiology component. Though a smaller amount also participate in WET analysis, it is unknown how many of permittees actually participate in WET analysis. It is estimated that 4.77% of all labs participate in the WET analysis.										Ave. Labor plus Non-Labor Cost Per Respondent:	\$332			
17		² See "Hours per Analysis" sheet														
18		³ Salaries from U.S. Department of Labor Statistics, May 2005, National Industry Specific Occupational Employment and Wage Estimates, adjusted for inflation (http://data.bls.gov/cgi-bin/cpicalc.pl).														
19																
20		⁴ U.S. Department of Labor Statistics, Natural Science Manager 11-9121. (\$52.09)														
21		⁵ U.S. Department of Labor Statistics, Chemist 19-2031. (\$23.65)														
22		⁶ U.S. Department of Labor Statistics, Information and Record Clerk 43-4199. (\$12.71)														
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average of 4.77% labs do WET
average cost of samples = \$243/lab
1.58 labs per permittee
or ratio of 0.632804

Analytical Times for the DMR-QA Studies.

CHEMISTRY/MICROBIOLOGY ANALYTE CHECKLIST

Rank	Analyte	Time (in minutes) for one analysis
1	pH	10
2	Total Suspended Solids	30
3	Ammonia (as N)	5
4	total Residual Chlorine	3
5	Biochemical Oxygen Demand (BOD)	45
6	Carbonaceous BOD	45
7	Copper	5
8	Total Phosphorous as P	10
9	Zinc	5
10	Oil & Grease	15
TOTAL (minutes)		173
TOTAL (hours)		2.88

using ratio of 0.633 labs per permittee:

1.8 hours per permittee for Chemistry/Microbiology

WET ORGANISMS/TEST CONDITIONS/END POINTS CHECKLIST

Rank	Analyte	Time (hours) for one analysis*	type of test
1	Fathead minnow - MHSF - NOEC Survival	10	Chronic
2	Fathead minnow - MHSF - NOEC (ON) Growth	10	Chronic
3	Ceriodaphnia - MHSF - NOEC Survival	10	Chronic
4	Fathead minnow - MHSF 25°C - LC50	3	Acute
5	Fathead minnow - MHSF - IC25 (ON) Growth	10	Chronic
6	Ceriodaphnia - MHSF - NOEC Reproduction	10	Chronic
7	Ceriodaphnia - MHSF - IC25 Reproduction	10	Chronic
8	Ceriodaphnia - MHSF 25°C - LC50	3	Acute
9	Fathead minnow - MHSF 20°C - LC50	3	Acute
10	Mysid - 40 fathoms - NOEC Survival	10	Chronic
TOTAL (hours)		79	

using ratio of 0.633 labs per permittee

50.01

*based on set-up, maintenance, data crunching at conclusion, 10 hr (chronic) also includes daily weighting

because only 4.77% of labs do WET analyses, the following number will be used for time burden for WET tests:

2.4 hours for WET analysis

Average cost of sample per lab:

\$260

Using ratio of 0.633 labs per permittee:

Average cost of samples per permittee

\$164.58