



6. Quality Assurance												
	Audits Routine calibrations Coordination/implementation											
	Training Reporting											
	QA plan review (annual) R QA plan preparation (RO)	108	27	5	\$55	583	\$1,194					
Element #6 totals						583	\$1,194					
7. Supervision												
	Planning/coordination Supervision/review 5 Minute SO2 Planning/coordination Supervision/review											
Element #7 totals												
<b>Summary of Burdens and Costs</b>						<b>2,831</b>	<b>\$850,077</b>					
<b>Summary Totals</b>												

- 1.151 (percent inflation 2004 to 2011)
- 1.175 (percent inflation 2004 to 2012)
- 1.198 (percent inflation 2004 to 2013)
  
- 1.020 (percent inflation 2010 to 2011)
- 1.041 (percent inflation 2010 to 2012)
- 1.062 (percent inflation 2010 to 2013)





### 3.2, 2012 SO2 Monitoring Costs

June 2010

Total Amor. Cost	New Site Hours and Costs						# Old Plus New Sites	Labor Hours	Labor O & M	Summary SO2			
	# New Sites	Hours/ Site	Years Amor.	Cost/ Site	Total Amor. Hours	Total Amor. Cost				Labor Hours	Labor Costs	Non-labor O & M	Equip/ Contract \$
\$27,976 \$7,174										437 117	\$27,976 \$7,174		
\$35,150										554	\$35,150		
\$722,751 \$36,138 \$16,875 \$55,473										583 1,111	\$16,875 \$55,473		\$722,751 \$36,138
\$831,237										1,694	\$72,348		\$758,889
							486					\$456,840	
							486	58,320	\$2,911,213	58,320	\$2,911,213		
								58,320	\$2,911,213	58,320	\$2,911,213	\$456,840	
							486					\$571,050	
							486	5,832	\$299,801	5,832	\$299,801		
							486	27,216	\$1,475,022	27,216	\$1,475,022		
								33,048	\$1,774,823	33,048	\$1,774,823	\$571,050	
							486	6,804	\$363,188	6,804	\$363,188		
							486	4,374	\$249,549	4,374	\$249,549		
							486	5,832	\$325,499	5,832	\$325,499		
							486	1,944	\$105,073	1,944	\$105,073		
							486	1,701	\$90,797	1,701	\$90,797		
							486	1,094	\$62,387	1,094	\$62,387		
							486	1,458	\$81,375	1,458	\$81,375		
							486	486	\$26,268	486	\$26,268		
								23,693	\$1,304,135	23,693	\$1,304,135		

							486	17,496	\$1,069,577	17,496	\$1,069,577		
							486	12,636	\$606,455	12,636	\$606,455		
							486	1,944	\$119,921	1,944	\$119,921		
							486	2,430	\$136,481	2,430	\$136,481		
							486	2,916	\$179,310	2,916	\$179,310		
\$1,243							108	27	\$1,524	610	\$2,767		
\$1,243								37,449	\$2,113,267	38,032	\$2,114,510		
							486	5,832	\$387,172	5,832	\$387,172		
							486	14,580	\$821,741	14,580	\$821,741		
							486	1,458	\$96,793	1,458	\$96,793		
							486	3,645	\$205,435	3,645	\$205,435		
								25,515	\$1,511,141	25,515	\$1,511,141		
\$867,630								178,025	\$9,614,579	180,855	\$9,723,321	\$1,027,890	\$758,889
													\$11,510,100

180,855

###

**Table 3.3, 2013 SO2 Monitoring Costs**

Previous Amortized Hours and Costs						New Site Hours and Costs						# Old Plus New Sites	Labor Hours
# Old Sites	Hours/ Site	Years Amor.	Cost/ Site	Total Amor. Hours	Total Amor. Cost	# New Sites	Hours/ Site	Years Amor.	Cost/ Site	Total Amor. Hours	Total Amor. Cost		
102	30	7	\$1,958	437	\$28,524	41	30	7	\$1,958	176	\$11,466		
102	8	7	\$502	117	\$7,314	41	8	7	\$502	47	\$2,940		
				554	\$35,838					223	\$14,406		
486		7	\$10,620		\$737,331	41		7	\$10,620		\$62,203		
24		7	\$10,620		\$36,867	2		7	\$10,620		\$3,110		
510	8	7	\$236	583	\$17,205	41	8	7	\$236	47	\$1,382		
486	16	7	\$815	1,111	\$56,559	41	16	7	\$815	94	\$4,771		
				1,694	\$847,962					141	\$71,467		
												486	
												486	58,320
													58,320
												486	
												486	5,832
												486	27,216
													33,048
						41	574		\$31,239			486	6,804
						41	369		\$21,465			486	4,374
						41	492		\$27,997			486	5,832
						41	164		\$9,038			486	1,944
						41	144		\$7,810			486	1,701
						41	92		\$5,366			486	1,094
						41	123		\$6,999			486	1,458
						41	41		\$2,259			486	486
							1,999		\$112,173				23,693

													486	17,496
													486	12,636
													486	1,944
													486	2,430
													486	2,916
	102	15	5	\$978	306	\$19,942							108	54
							41	15	5	\$590	123	\$4,836		123
					306	\$19,942								37,599
													486	5,832
													486	14,580
													486	1,458
													486	3,645
														25,515
					2,554	\$903,743								178,175

180,728

**Table 3.0, Summary of SO2 2**

June 2010

Labor O & M				
	Labor Hours	Labor Costs	Non-labor O & M	Equip/ Contract \$
	613	\$39,990		
	163	\$10,254		
	776	\$50,244		
	630	\$18,587		\$799,534
	1,205	\$61,331		\$39,977
	1,835	\$79,918		\$839,511
\$2,968,198	58,320	\$2,968,198	\$465,782	
\$2,968,198	58,320	\$2,968,198	\$465,782	
\$305,670	5,832	\$305,670	\$582,228	
\$1,503,895	27,216	\$1,503,895		
\$1,809,565	33,048	\$1,809,565	\$582,228	
\$370,297	6,804	\$370,297		
\$254,434	4,374	\$254,434		
\$331,870	5,832	\$331,870		
\$107,130	1,944	\$107,130		
\$92,574	1,701	\$92,574		
\$63,608	1,094	\$63,608		
\$82,967	1,458	\$82,967		
\$26,782	486	\$26,782		
\$1,329,663	23,693	\$1,329,663		

2011				2012	
Summary SO2				Summary SO2	
Labor Hours	Labor Costs	Non-labor O & M	Equip/ Contract \$	Labor Hours	Labor Costs
437	\$27,405			437	\$27,976
117	\$7,027			117	\$7,174
554	\$34,432			554	\$35,150
583	\$16,530		\$708,171	583	\$16,875
1,111	\$54,340		\$35,409	1,111	\$55,473
1,694	\$70,870		\$743,580	1,694	\$72,348
58,320	\$2,851,750	\$447,509		58,320	\$2,911,213
58,320	\$2,851,750	\$447,509		58,320	\$2,911,213
5,832	\$293,678	\$559,386		5,832	\$299,801
27,216	\$1,444,894			27,216	\$1,475,022
33,048	\$1,738,572	\$559,386		33,048	\$1,774,823
6,804	\$355,769			6,804	\$363,188
4,374	\$244,452			4,374	\$249,549
5,832	\$318,850			5,832	\$325,499
1,944	\$102,927			1,944	\$105,073
1,701	\$88,942			1,701	\$90,797
1,094	\$61,113			1,094	\$62,387
1,458	\$79,713			1,458	\$81,375
486	\$25,732			486	\$26,268
23,693	\$1,277,498			23,693	\$1,304,135

\$1,090,513	17,496	\$1,090,513		
\$618,326	12,636	\$618,326		
\$122,268	1,944	\$122,268		
\$139,152	2,430	\$139,152		
\$182,820	2,916	\$182,820		
\$3,107	360	\$23,050		
\$4,836	123	\$4,836		
\$2,161,023	37,905	\$2,180,965		
\$394,751	5,832	\$394,751		
\$837,826	14,580	\$837,826		
\$98,688	1,458	\$98,688		
\$209,457	3,645	\$209,457		
\$1,540,721	25,515	\$1,540,721		
<b>\$9,809,170</b>	<b>181,091</b>	<b>\$9,959,274</b>	<b>\$1,048,010</b>	<b>\$839,511</b>
				<b>\$11,846,795</b>

	17,496	\$1,047,730			17,496	\$1,069,577
	12,636	\$594,068			12,636	\$606,455
	1,944	\$117,471			1,944	\$119,921
	2,430	\$133,693			2,430	\$136,481
	2,916	\$175,647			2,916	\$179,310
	610	\$2,687			610	\$2,767
	0	\$0			0	\$0
	38,032	\$2,071,296			38,032	\$2,114,510
	5,832	\$379,264			5,832	\$387,172
	14,580	\$804,956			14,580	\$821,741
	1,458	\$94,816			1,458	\$96,793
	3,645	\$201,239			3,645	\$205,435
	25,515	\$1,480,275			25,515	\$1,511,141
	<b>180,855</b>	<b>\$9,524,693</b>	<b>\$1,006,895</b>	<b>\$743,580</b>	<b>180,855</b>	<b>\$9,723,321</b>
					<b>\$11,275,168</b>	

###

# 011-2013 Monitoring Costs

June 2010

		2013				Average 2011-2013 SO2			
		Summary SO2							
Non-labor O & M	Equip/ Contract \$	Labor Hours	Labor Costs	Non-labor O & M	Equip/ Contract \$	Labor Hours	Labor Costs	Non-labor O & M	Equip/ Contract \$
		613	\$39,990			496	\$31,790		
		163	\$10,254			132	\$8,152		
		776	\$50,244			628	\$39,942		
	\$722,751				\$799,534				\$743,486
	\$36,138				\$39,977				\$37,174
		630	\$18,587			599	\$17,331		
		1,205	\$61,331			1,142	\$57,048		
	\$758,889	1,835	\$79,918		\$839,511	1,741	\$74,379		\$780,660
\$456,840				\$465,782				\$456,710	
		58,320	\$2,968,198			58,320	\$2,910,387		
\$456,840		58,320	\$2,968,198	\$465,782		58,320	\$2,910,387	\$456,710	
\$571,050				\$582,228				\$570,888	
		5,832	\$305,670			5,832	\$299,716		
		27,216	\$1,503,895			27,216	\$1,474,604		
\$571,050		33,048	\$1,809,565	\$582,228		33,048	\$1,774,320	\$570,888	
		6,804	\$370,297			6,804	\$363,085		
		4,374	\$254,434			4,374	\$249,478		
		5,832	\$331,870			5,832	\$325,406		
		1,944	\$107,130			1,944	\$105,043		
		1,701	\$92,574			1,701	\$90,771		
		1,094	\$63,608			1,094	\$62,370		
		1,458	\$82,967			1,458	\$81,352		
		486	\$26,782			486	\$26,261		
		23,693	\$1,329,663			23,693	\$1,303,765		



**Table 22.1, 2011 General SO2 Network Mon**

Cost Element	Previous Amortized Hours and Costs						New Site Hours and Costs for			
	# Old Sites	Hours/ Site	Years Amor.	Cost/ Site	Total Amor. Hours	Total Amor. Cost	# New Sites	Hours/ Site	Years Amor.	Cost/ Site
1. Network Design										
Network design study (see pollutant)										
Site selection (see pollutant)										
Additional indirect cost adj (\$2/hour)					146,592	\$337,455				
<b>Element #1 totals</b>										
2. Site Installation										
Multigas calibrator	162		7	\$16,114		\$372,924				
Zero air supply	162		7	\$4,604		\$106,550				
Ambient air intake manifold assembly	162		7	\$1,727		\$39,956				
Shelter (large, temp controlled)	162		10	\$29,351		\$475,478				
Shelter delivery charges	162		10	\$576		\$9,323				
Other shelter equipment/accessories	162		10	\$4,604		\$74,585				
Data logger	162		10	\$2,302		\$37,292				
Site preparation	162		7	\$5,180		\$119,868				
Power drop	162		7	\$806		\$18,646				
Land/lease	162			\$1,200		\$194,400				
<b>Element #2 totals</b>						\$1,449,023				
3. Sampling and Analysis										
Vehicle										
Travel time to sites	162				104	\$10,175				
<b>Element #3 totals</b>					104	\$10,175				
4. Maintenance										
<b>Element #4 totals</b>										
5. Data Management										
Analysis and trends (rep org)	108	208		\$10,564	22,464	\$1,140,899				
<b>Element #5 totals</b>					22,464	\$1,140,899				
6. Quality Assurance										
Multigas calibrator	108		7	\$16,114		\$248,616				
Zero air supply	108		7	\$4,604		\$71,033				
Miscellaneous equipment	108		7	\$2,302		\$35,517				
<b>Element #6 totals</b>						\$355,166				

7. Supervision										
Element #7 totals										
<b>Summary of Burdens and Costs</b>					22,568	\$2,955,262				
<b>Summary Totals</b>										

1.151 (percent inflation 2004 to 2011)

1.175 (percent inflation 2004 to 2012)

1.198 (percent inflation 2004 to 2013)

1 (percent inflation 1998 to 2007)

1 (percent inflation 1998 to 2008)

1 (percent inflation 1998 to 2009)

1 (percent inflation 2004 to 2006)

1 (percent inflation 2004 to 2007)

1 (percent inflation 2004 to 2008)

1 (percent inflation 2004 to 2009)

1 (percent inflation 2006 to 2007)

1 (percent inflation 2006 to 2008)

1 (percent inflation 2005 to 2007)

1 (percent inflation 2005 to 2008)

1 (percent inflation 2005 to 2009)

1.128 (percent inflation 2004 to 2010)

1.151 (percent inflation 2004 to 2011)

1.175 (percent inflation 2004 to 2012)

# Amortizing Costs

June 2010

General Network					Summary, General Network				Previous Amortized Hours a		
Total Amor. Hours	Total Amor. Cost	# Old Plus New	Hours	O & M	Labor Hours	Labor Costs	Non-labor O & M	Equip/ Contract \$	# Old Sites	Hours/ Site	Years Amor.
							146,592	\$337,455			
							146,592	\$337,455			
								\$372,924	162		7
								\$106,550	162		7
								\$39,956	162		7
								\$475,478	162		10
								\$9,323	162		10
								\$74,585	162		10
								\$37,292	162		10
								\$119,868	162		7
								\$18,646	162		7
							\$194,400		162		
							\$194,400	\$1,254,623			
								\$75,232			
					104	\$10,175			162		
					104	\$10,175	\$75,232				
					22,464	\$1,140,899			108	208	
					22,464	\$1,140,899					
								\$248,616	130		7
								\$71,033	130		7
								\$35,517	130		7
								\$355,166			





	169,728	\$3,432,513									\$1,164,688	23,768

169,728 | \$4,821,162

**Table 22.3, 2013 General SO2 Network**

June 2010

Summary, General Network			Previous Amortized Hours and Costs					New Site Hours and Costs			
Labor Costs	Non-labor O & M	Equip/ Contract \$	# Old Sites	Hours/ Site	Years Amor.	Cost/ Site	Total Amor. Hours	Total Amor. Cost	# New Sites	Hours/ Site	Years Amor.
	147,160	\$345,826					144,101	\$345,266			
	147,160	\$345,826					144,101	\$345,266			
\$16,450		\$380,700	162		7	\$16,772		\$388,152			
\$4,700		\$108,771	162		7	\$4,792		\$110,901			
\$1,763		\$40,789	162		7	\$1,797		\$41,588			
\$29,963		\$485,393	162		10	\$30,549		\$494,894			
\$588		\$9,518	162		10	\$599		\$9,704			
\$4,700		\$76,140	162		10	\$4,792		\$77,630			
		\$38,070	162		10	\$2,396		\$38,815			
\$5,288		\$122,368	162		7	\$5,391		\$124,763			
\$823		\$19,035	162		7	\$839		\$19,408			
		\$194,400	162			\$1,200		\$194,400			
\$64,273		\$1,475,184						\$1,500,254			
\$10,387	\$76,800		162				104	\$10,590			
\$10,387	\$76,800						104	\$10,590			
\$1,164,688			168	208		\$10,995	34,944	\$1,847,201			
\$1,164,688							34,944	\$1,847,201			
		\$305,500	156		7	\$16,772		\$373,776			
		\$87,286	156		7	\$4,792		\$106,793			
		\$43,643	156		7	\$2,396		\$53,397			
		\$436,429						\$533,966			

\$1,239,348	\$223,960	\$2,257,438					179,149	\$4,237,277			
		\$3,720,746									

|

# Monitoring Costs

June 2010

Costs for General Network						Summary, General Network				2011	
Cost/ Site	Total Amor. Hours	Total Amor. Cost	# Old Plus New	Hours	O & M	Labor Hours	Labor Costs	Non-labor O & M	Equip/ Contract \$	Labor Hours	Labor Costs
								144,101	\$345,266		
								144,101	\$345,266	0	\$0
									\$388,152		
									\$110,901		
									\$41,588		
									\$494,894		
									\$9,704		
									\$77,630		
									\$38,815		
									\$124,763		
									\$19,408		
									\$194,400		
									\$1,500,254		
								\$78,304			
						104	\$10,590			104	\$10,175
						104	\$10,590	\$78,304		104	\$10,175
						34,944	\$1,847,201			22,464	\$1,140,899
						34,944	\$1,847,201			22,464	\$1,140,899
									\$373,776		
									\$106,793		
									\$53,397		
									\$533,966		

						35,048	\$1,857,791	\$222,405	\$2,379,486	22,568	\$1,151,074
									\$4,459,682		

179,149 | ###

|

**Table 22.0, Summary of General SO2 Network 2011-2013 Monitoring Costs**

		2012				2013					
General Network		Summary, General Network				Summary, General Network				Average 2011	
Non-labor O & M	Equip/ Contract \$	Labor Hours	Labor Costs	Non-labor O & M	Equip/ Contract \$	Labor Hours	Labor Costs	Non-labor O & M	Equip/ Contract \$	Labor Hours	Labor Costs
	\$337,455				\$345,826				\$345,266		
	\$337,455	0	\$0		\$345,826	0	\$0		\$345,266	0	\$0
	\$372,924				\$380,700				\$388,152		
	\$106,550				\$108,771				\$110,901		
	\$39,956				\$40,789				\$41,588		
	\$475,478				\$485,393				\$494,894		
	\$9,323										
	\$74,585				\$76,140				\$77,630		
	\$37,292				\$38,070				\$38,815		
	\$119,868				\$122,368				\$124,763		
	\$18,646				\$19,035				\$19,408		
	\$0				\$194,400				\$194,400		
	\$1,254,623				\$1,465,666				\$1,490,550		
\$75,232				\$76,800				\$78,304			
		104	\$10,387			104	\$10,590			104	\$10,384
\$75,232		104	\$10,387	\$76,800		104	\$10,590	\$78,304		104	\$10,384
		22,464	\$1,164,688			34,944	\$1,847,201			26,624	\$1,384,263
		22,464	\$1,164,688			34,944	\$1,847,201			26,624	\$1,384,263
	\$248,616				\$305,500				\$373,776		
	\$71,033				\$87,286				\$106,793		
	\$35,517				\$43,643				\$53,397		
	\$355,166				\$436,429				\$533,966		

\$75,232	\$1,947,243	22,568	\$1,175,075	\$76,800	\$2,247,921	35,048	\$1,857,791	\$78,304	\$2,369,782	26,728	\$1,394,647
	\$3,173,549				\$3,499,796				\$4,305,877		

June 2010

-2013 General Network	
Non-labor O & M	Equip/ Contract \$
	\$342,849
	\$342,849
	\$380,592 \$108,741 \$40,778
	\$485,255 \$3,108 \$76,118
	\$38,059 \$122,333
	\$19,030 \$129,600
	\$1,403,613
\$76,779	
\$76,779	
	\$309,297 \$88,371 \$44,185
	\$441,853

<b>\$76,779</b>	<b>\$2,188,315</b>
	<b>\$3,659,741</b>

Table 23.1, Total SO2 EPA Burdens And Costs for CY-2011

Table 23.2

June 2010

Item	EPA Regional Offices		EPA OAQPS				Total EPA		EPA Regiona
	Hours	Costs	ITPID		EMAD		Hours	Costs	Hours
			Hours	Costs	Hours	Costs			
1. NAMS/SLAMS/PAMS oversight (includes site visits, annual network review)	5,772	\$333,546			3,342	\$197,327	9,114	\$530,873	5,772
2. QA audits (includes perf. audits NPAP, & systems audits)	2,414	\$146,562					2,414	\$146,562	2,414
3. Regional monitoring meeting with States	362	\$20,486					362	\$20,486	362
4. National or regional monitoring meetings	267	\$15,286					267	\$15,286	267
5. 105 Grant activities	1,002	\$51,385					1,002	\$51,385	1,002
7. Other items	573	\$16,925					573	\$16,925	573
8. Methods development in support of regulatory program, and reference and equivalent activities (See footnote)									
9. In-house burdens for AIRS/AQS (includes AIRS Exec, AIRS TTN Web/Homepage, AIRS conference, training)			788	\$95,360			788	\$95,360	
10. Contractor support including hot line, enhancements maintenance, training, etc.			230	\$13,800			230	\$13,800	
11. Hardware/software NCC burden, national AQS costs				\$90,668			-	\$90,668	

12. AIR NOW				\$51,110			-	\$51,110	
13. Other (software purchased internal support)				\$6,903			-	\$6,903	
<b>Totals</b>	<b>10,390</b>	<b>\$584,190</b>	<b>1,017</b>	<b>\$257,840</b>	<b>3,342</b>	<b>\$197,327</b>	<b>14,749</b>	<b>\$1,039,356</b>	<b>10,390</b>
<b>Summary Totals</b>							<b>14,749</b>	<b>\$1,039,356</b>	

Method development and reference and equivalent activities covered under another ICR (OMB # 2080.0005, EPA # 0559.08 for 4,718 hours and \$101,000.

- 1 (Inflation 1998 to 2011)
- 1 (Inflation 1998 to 2012)
- 1 (Inflation 1998 to 2013)

0.07651 ratio of 486 SO2 monitors to 6,352 total monitors operating on CY-2009

2, Total SO2 EPA Burdens And Costs for CY-2012

Table 23.3, Total SO2 EPA Burdens And Co

June 2010

Offices	EPA OAQPS				Total EPA	EPA Regional Offices	EPA OAQPS				
	ITPID		EMAD				ITPID		EMA		
Costs	Hours	Costs	Hours	Costs	Hours	Costs	Hours	Costs	Hours		
\$340,287			3,342	\$201,315	9,114	\$541,602		5,772	\$347,277		3,342
\$149,524					2,414	\$149,524		2,414	\$152,596		
\$20,900					362	\$20,900		362	\$21,329		
\$15,595					267	\$15,595		267	\$15,915		
\$52,424					1,002	\$52,424		1,002	\$53,500		
\$17,267					573	\$17,267		573	\$17,621		
	788	\$97,287			788	\$97,287		788	\$99,285		
	230	\$14,078			230	\$14,078		230	\$14,368		
		\$92,501			-	\$92,501			\$94,401		

		\$52,142			-	\$52,142				\$53,214		
		\$7,042			-	\$7,042				\$7,187		
<b>\$595,996</b>	<b>1,017</b>	<b>\$263,050</b>	<b>3,342</b>	<b>\$201,315</b>	<b>14,749</b>	<b>\$1,060,361</b>		<b>10,390</b>	<b>\$608,239</b>	<b>1,017</b>	<b>\$268,454</b>	<b>3,342</b>
					14,749	\$1,060,361						

June 2010

D	Total EPA		2011 Summary				2012 Summary				
	Hours	Costs	Labor	Labor	Non-labor	Equip	Labor	Labor	Non-labor	Equip	
			Hours	Costs	O & M	Contract \$	Hours	Costs	O & M	Contract \$	
	\$205,451	9,114	\$552,728	9,114	\$530,873			9,114	\$541,602		
		2,414	\$152,596	2,414	\$146,562			2,414	\$149,524		
		362	\$21,329	362	\$20,486			362	\$20,900		
		267	\$15,915	267	\$15,286			267	\$15,595		
		1,002	\$53,500	1,002	\$51,385			1,002	\$52,424		
		573	\$17,621	573	\$16,925			573	\$17,267		
		788	\$99,285			788	\$95,360			788	\$97,287
		230	\$14,368			230	\$13,800			230	\$14,078
			\$94,401				\$90,668				\$92,501

		\$53,214				\$51,110				\$52,142	
		\$7,187				\$6,903				\$7,042	
\$205,451	14,749	\$1,082,144		13,732	\$781,517	1,017	\$257,840	13,732	\$797,311	1,017	\$263,050
	14,749	\$1,082,144				14,749	\$1,039,356			14,749	\$1,060,361

2013 Summary				Average of 2011-2013 EPA Costs			
Labor	Labor	Non-labor	Equip	Labor	Labor	Non-labor	Equip
Hours	Costs	O & M	Contract \$	Hours	Costs	O & M	Contract \$
9,114	\$552,728			9,114	\$541,734		
2,414	\$152,596			2,414	\$149,561		
362	\$21,329			362	\$20,905		
267	\$15,915			267	\$15,599		
1,002	\$53,500			1,002	\$52,436		
573	\$17,621			573	\$17,271		
		788	\$99,285			788	\$97,310
		230	\$14,368			230	\$14,082
			\$94,401				\$92,523

			\$53,214				\$52,155
			\$7,187				\$7,044
<b>13,732</b>	<b>\$813,690</b>	<b>1,017</b>	<b>\$268,454</b>	<b>13,732</b>	<b>\$797,506</b>	<b>1,017</b>	<b>\$263,115</b>
		<b>14,749</b>	<b>\$1,082,144</b>			<b>14,749</b>	<b>\$1,060,621</b>

### Summary for SO2 for 2011-2013 Monitoring Burden and Costs

Cost Element	Average 2011-2013 SO2					Average :	
	Labor Hours	Labor Costs	Non-labor O & M	Equip/ Contract \$	Total Cost	Labor Hours	Labor Costs
1. Network Design	628	\$39,942			\$39,942		
2. Site Installation	1,741	\$74,379		\$780,660	\$855,039		
3. Sampling & Analysis	58,320	\$2,910,387	\$456,710		\$3,367,097	104	\$10,384
4. Maintenance	33,048	\$1,774,320	\$570,888		\$2,345,208		
5. Data Management	23,693	\$1,303,765			\$1,303,765	26,624	\$1,384,263
6. Quality Assurance	37,990	\$2,122,257			\$2,122,257		
7. Supervision	25,515	\$1,510,712			\$1,510,712		
<b>Totals</b>	<b>180,934</b>	<b>\$9,735,763</b>	<b>\$1,027,598</b>	<b>\$780,660</b>	<b>\$11,544,021</b>	<b>26,728</b>	<b>\$1,394,647</b>

### SO2 Grand Total Average 2011-2013

Cost Element	Labor Hours	Labor Costs	Non-labor O & M	Equip/ Contract \$	Total Cost
1. Network Design	628	\$39,942	\$0	\$342,849	\$382,791
2. Site Installation	1,741	\$74,379	\$0	\$2,184,273	\$2,258,652
3. Sampling & Analysis	58,424	\$2,920,771	\$533,489	\$0	\$3,454,260
4. Maintenance	33,048	\$1,774,320	\$570,888	\$0	\$2,345,208
5. Data Management	50,317	\$2,688,028	\$0	\$0	\$2,688,028
6. Quality Assurance	37,990	\$2,122,257	\$0	\$441,853	\$2,564,110
7. Supervision	25,515	\$1,510,712	\$0	\$0	\$1,510,712
<b>Totals</b>	<b>207,662</b>	<b>\$11,130,409</b>	<b>\$1,104,377</b>	<b>\$2,968,975</b>	<b>\$15,203,762</b>

June 2010

2011-2013 General Network		
Non-labor O & M	Equip/ Contract \$	Total Cost
	\$342,849	\$342,849
	\$1,403,613	\$1,403,613
\$76,779		\$87,163
		\$1,384,263
	\$441,853	\$441,853
<b>\$76,779</b>	<b>\$2,188,315</b>	<b>\$3,659,741</b>