

82-02-004

92-2692

Riverside  
Title V Emissions Inventory  
For the Year 2002

EP ID	EU ID	PM10	PM	SO2	NOx	VOC	CO	Pb	Antimony	Arsenic co	Beryllium cr	Cadmium compounds	Chromium	Cobalt	Cyanide	Hydrochloric	Hydrogen f	Lead com	Manganes	Mercury cr	Nickel corr	POM (Polyc	Radionucl	Selenium c	Acetaldehy	Acetophen	Acrolein
001	001	105.18	157.04	2,280.10	1,478.94	12.03	99.96	0.00	0.00	0.08	0.00	0.01	0.07	0.02	0.50	13.97	16.18	0.08	0.10	0.02	0.06	0.01	0.01	0.26	0.11	0.00	0.0
001	002	14.42	19.82	266.91	311.56	1.80	17.22	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.06	1.72	2.00	0.01	0.01	0.00	0.01	0.00	0.00	0.03	0.01	0.00	0.0
001	003	14.64	21.62	291.16	339.88	1.96	18.79	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.07	1.88	2.18	0.01	0.01	0.00	0.01	0.00	0.00	0.03	0.02	0.00	0.0
002	004	1.91	2.81	48.53	56.65	0.33	3.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.31	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.0
003	005	2.23	7.43																								0.0
004	005	11.36	42.31																								0.0
005	006	40.39	80.81																								0.0
006	007	0.94	1.18																								0.0
008A	009	0.64	0.73																								0.0
009	010	0.00	0.01																								0.0
010	010	0.00	0.01																								0.0
011	010	0.00	0.00																								0.0
012	010	0.00	0.00																								0.0
013	014	0.86	1.44																								0.0
014	010	0.31	0.53																								0.0
015	014	0.02	0.05																								0.0
016	015	0.80	1.35																								0.0
017	015	0.00	0.00																								0.0
022	027	0.06	0.11																								0.0
035	042	0.00	0.00	0.00	0.02	0.00	0.00																				0.0
036	042	0.00	0.00	0.00	0.02	0.00	0.00																				0.0
037	043	0.00	0.00	0.00	0.02	0.00	0.00																				0.0
038	043	0.00	0.00	0.00	0.02	0.00	0.00																				0.0
039	044	0.00	0.00	0.00	0.03	0.00	0.01																				0.0

Facility Total	PM10	PM	SO2	NOx	VOC	CO	Pb	Antimony	Arsenic co	Beryllium cr	Cadmium compounds	Chromium	Cobalt	Cyanide	Hydrochloric	Hydrogen f	Lead com	Manganes	Mercury cr	Nickel corr	POM (Polyc	Radionucl	Selenium c	Acetaldehy	Acetophen	Acrolein
Facility Total	192.76	337.23	2,886.72	2,187.14	16.12	139.11	0.00	0.00	0.10	0.00	0.01	0.09	0.02	0.64	17.88	20.72	0.10	0.12	0.02	0.08	0.01	0.01	0.33	0.14	0.00	0.0
Facility Total Fee Ton:	192.76		2,886.72	2,187.14	16.12		0.00							0.64					0.02		0.01	0.01	0.33	0.14	0.00	0.0

Form 5.0 Totals  
Page 1

	Total Tons	Fee Tons
PM	337.23	0.00
PM10	192.76	192.76
SO2	2,886.72	2,886.72
NOx	2,187.14	2,187.14
VOC	16.12	16.12
CO	139.11	
Pb	0.00	0.00
O3		
Criteria Subtotal	5,282.74	
HAP Fee Subtotal	1.01	
Emissions Fee Total	5,283.75	

Facility Fee Tons	Fee/Ton	Fee Total
5,283.75	30.75	\$162,475.31

For form submitted with fees in July only

Page 2

	CAS No.	Total Tons	Fee Tons
Arsenic compounds	7440382	0.10	0.00
Cadmium compounds	7440439	0.01	0.00
Chromium compound	7440473	0.09	0.00
Cobalt	7440484	0.02	0.00
Cyanide		0.64	0.64
Hydrochloric acid	7647010	17.88	0.00
Hydrogen fluoride	7664393	20.72	0.00
Lead compounds		0.10	0.00
Manganese compound	7439965	0.12	0.00
Mercury compounds	7439976	0.02	0.02
Nickel compounds	7440020	0.08	0.00
POM (Polycyclic organic matter)		0.01	0.01
Radionuclides		0.01	0.01
Selenium compounds	7782492	0.33	0.33
Acetaldehyde	75070	0.14	0.00
Acrolein	107028	0.08	0.00
Benzene	71432	0.33	0.00
Benzyl Chloride	100447	0.18	0.00
Bis(2-ethylhexyl)phtha	117817	0.01	0.00
Bromoform	75252	0.01	0.00
HAP Subtotal		1.01	

Page 3

	CAS No.	Total Tons	Fee Tons
Carbon Disulfide	75150	0.03	0.00
Chloroform	67663	0.01	0.00
Dimethyl Sulfate	77781	0.01	0.00
Ethylbenzene	100414	0.02	0.00
Ethylchloride	75003	0.01	0.00
Ethylene Dichloride	107062	0.01	0.00
Formaldehyde	50000	0.07	0.00
Hexane	110543	0.27	0.00
Isophorone	78591	0.15	0.00
Methyl Tert Butyl Ethe	1634044	0.01	0.00
Methyl Bromide	74839	0.03	0.00
Methyl Chloride	74873	0.13	0.00
Methyl Ethyl Ketone	78933	0.10	0.00
Methyl Hydrazine	60344	0.03	0.00
Methylene Chloride	75092	0.08	0.00
Propionaldehyde	123386	0.10	0.00
Tetrachlorethylene	127184	0.01	0.00
Toluene	108863	0.07	0.00
Xylenes (mixed isome	1330207	0.01	0.00
HAP Subtotal		0.00	



Actual Throughput	001 Coal	Emission Unit	3	% Sulfur	Control Eff	Tons/Yr	0.31	Natural Gas	127.75 lb/MMcf	Emission Factor Units	Control Eff	Tons/Yr	0.49	001	Pollutant	Total	Tons/Yr
Boiler 7	53,665.70	Ave Btu/lb													PM10	14.64	
	8561														PM	21.62	
Pollutant		Emission Factor Units													SOx	291.18	
PM10		3.0800E-02 lb/mmBtu		0.00											NOx	339.88	
PM		4.6000E-02 lb/mmBtu		0.00											VOC	1.96	
SOx		3.5000E+01 lb/ton%S													CO	18.79	
NOx		1.2000E+01 lb/ton													Lead	0.00	
VOC		6.0000E-02 lb/ton													Antimony	0.00	
CO		5.0000E-01 lb/ton													Arsenic compounds	0.01	
Lead	NA														Beryllium compounds	0.00	
Antimony		1.8000E-05 lb/ton													Cadmium compounds	0.00	
Arsenic compounds		4.1000E-04 lb/ton													Chromium compounds	0.01	
Beryllium compounds		2.1000E-05 lb/ton													Cobalt	0.00	
Cadmium compounds		5.1000E-05 lb/ton													Cyanide	0.07	
Chromium compounds		3.3900E-04 lb/ton													Hydrochloric acid	1.88	
Cobalt		1.0000E-04 lb/ton													Hydrogen fluoride	2.18	
Cyanide		2.5000E-03 lb/ton													Lead compounds	0.01	
Hydrochloric acid		7.0100E-02 lb/ton													Manganese compounds	0.01	
Hydrogen fluoride		8.1181E-02 lb/ton													Mercury compounds	0.00	
Lead compounds		4.2000E-04 lb/ton													Nickel compounds	0.01	
Lead compounds		4.9000E-04 lb/ton													POM	0.00	
Manganese compounds		9.0072E-05 lb/ton													Radionuclides	0.00	
Mercury compounds		2.8000E-04 lb/ton													Selenium compounds	0.03	
Nickel compounds		2.0800E-06 lb/mmBtu													Acetaldehyde	0.02	
POM		2.8000E-04 lb/ton													Acetophenone	0.00	
Radionuclides		9.5000E-02 lb/ton PM													Acrolein	0.01	
Selenium compounds		1.3000E-03 lb/ton													Benzene	0.03	
Acetaldehyde		5.7000E-04 lb/ton													Benzyl Chloride	0.02	
Acetophenone		1.5000E-05 lb/ton													Bis(2-ethylhexyl)phthalate	0.00	
Acrolein		2.9000E-04 lb/ton													Bromoform	0.00	
Benzene		1.3000E-03 lb/ton													Carbon Disulfide	0.00	
Benzyl Chloride		7.0000E-04 lb/ton													2-Chloroacetophenone	0.00	
Bis(2-ethylhexyl)phthalate		7.3000E-05 lb/ton													Chloroform	0.00	
Bromoform		3.9000E-05 lb/ton													Chlorobenzene	0.00	
Carbon Disulfide		1.3000E-04 lb/ton													Chloroform	0.00	
2-Chloroacetophenone		7.0000E-06 lb/ton													Cumene	0.00	
Chlorobenzene		2.2000E-05 lb/ton													Dimethyl Sulfate	0.00	
Chloroform		5.9000E-05 lb/ton													Ethylbenzene	0.00	
Cumene		5.3000E-06 lb/ton													Ethylchloride	0.00	
Dimethyl Sulfate		4.8000E-05 lb/ton													Formaldehyde	0.00	
Ethylbenzene		9.4000E-05 lb/ton													Hexane	0.11	
Ethylchloride		4.2000E-05 lb/ton													Isophorone	0.02	
Ethylene Dichloride		4.0000E-05 lb/ton													Methyl Tert Butyl Ether	0.00	
Formaldehyde		2.4000E-04 lb/ton													Methyl Bromide	0.00	
Hexane		6.7000E-05 lb/ton															
Isophorone		5.8000E-04 lb/ton															
Methyl Tert Butyl Ether		3.5000E-05 lb/ton															
Methyl Bromide		1.6000E-04 lb/ton															

Methyl Chloride  
 Methyl Ethyl Ketone  
 Methyl Hydrazine  
 Methyl Methacrylate  
 Methylene Chloride  
 Phenol  
 Propionaldehyde  
 Styrene  
 Tetrachloroethylene  
 Toluene  
 1, 1, 1 Trichloroethane  
 Vinyl Acetate  
 Xylene

5.3000E-04 lb/ton  
 3.9000E-04 lb/ton  
 1.7000E-04 lb/ton  
 2.0000E-05 lb/ton  
 2.9000E-04 lb/ton  
 1.6000E-05 lb/ton  
 3.8000E-04 lb/ton  
 2.5000E-05 lb/ton  
 4.3000E-05 lb/ton  
 2.4000E-04 lb/ton  
 2.0000E-05 lb/ton  
 7.6000E-06 lb/ton  
 3.7000E-05 lb/ton

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74873 Methyl Chloride  
 78933 Methyl Ethyl Ketone  
 60344 Methyl Hydrazine  
 80626 Methyl Methacrylate  
 75092 Methylene Chloride  
 108952 Phenol  
 123386 Propionaldehyde  
 100425 Styrene  
 127184 Tetrachloroethylene  
 108883 Toluene  
 71556 1, 1, 1 Trichloroethane  
 108054 Vinyl Acetate  
 1330207 Xylene

0.01  
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 0.01  
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 0.00

Riverside  
Title V Emissions Inventory  
For the Year 2002

EP ID	EU ID	PM10	PM	SO2	NOx	VOC	CO	Pb	Antimony	Arsenic co	Beryllium co	Cadmium compounds	Chromium	Cobalt	Cyanide	Hydrochloric	Hydrogen I	Lead com	Manganes	Mercury co	Nickel com	POM (Polyc	Radionucl	Selenium co	Acetaldeh	Acetophen	Acrolein
001	001	105.18	167.04	2,286.10	1,476.94	12.03	99.56	0.00	0.00	0.08	0.00	0.01	0.01	0.02	0.50	13.97	16.18	0.08	0.10	0.02	0.06	0.01	0.01	0.26	0.11	0.00	0.00
001	002	13.42	19.82	266.91	311.56	1.80	17.22	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.06	1.72	2.00	0.01	0.01	0.00	0.01	0.00	0.00	0.03	0.01	0.00	0.01
001	003	14.64	21.62	291.18	339.88	1.96	18.79	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.07	1.88	2.18	0.01	0.01	0.00	0.01	0.00	0.00	0.03	0.02	0.00	0.01
002	004	1.91	2.81	48.53	56.65	0.33	3.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.31	0.36	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
003	005	2.23	7.43																								
004	005	11.36	42.31																								
005	006	40.39	30.81																								
006	007	0.94	1.18																								

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022	027	0.06	0.11																								
035	042	0.00	0.00	0.00	0.02	0.00	0.00																				
036	042	0.00	0.00	0.00	0.02	0.00	0.00																				
037	043	0.00	0.00	0.00	0.02	0.00	0.00																				
038	043	0.00	0.00	0.00	0.02	0.00	0.00																				
039	044	0.00	0.00	0.00	0.03	0.00	0.01																				

Facility Total	PM10	PM	SO2	NOx	VOC	CO	Pb	Antimony	Arsenic co	Beryllium co	Cadmium compounds	Chromium	Cobalt	Cyanide	Hydrochloric	Hydrogen I	Lead com	Manganes	Mercury co	Nickel com	POM (Polyc	Radionucl	Selenium co	Acetaldeh	Acetophen	Acrolein	
Facility Total Fee Ton:	192.76	337.23	2,886.72	2,187.14	16.12	139.11	0.00	0.00	0.10	0.00	0.01	0.09	0.02	0.64	17.88	20.72	0.10	0.12	0.02	0.08	0.01	0.01	0.33	0.14	0.00	0.08	
															0.64					0.02		0.01	0.01	0.33			
																Cond PM	Cond PM	PM10	PM10		PM10				VOC	VOC	VOC

Form 5.0 Totals  
Page 1

	Total Tons	Fee Tons
PM	337.23	0.00
PM10	192.76	192.76
SO2	2,886.72	2,886.72
NOx	2,187.14	2,187.14
VOC	16.12	16.12
CO	139.11	
Pb	0.00	0.00
OS		
Criteria Subtotal		5,282.74
Criteria Subtotal	5,282.74	
HAP Fee Subtotal	1.01	
Emissions Fee Total	5,283.75	

Facility Fee Tons	Fee/Ton	Fee Total
5,283.75	30.75	\$162,475.31

For form submitted with fees in July only.

Page 2

	CAS No.	Total Tons	Fee Tons
Arsenic compounds	7440382	0.10	0.00
Cadmium compounds	7440439	0.01	0.00
Chromium compounds	7440473	0.09	0.00
Cobalt	7440484	0.02	0.00
Cyanide		0.64	0.64
Hydrochloric acid	7647010	17.88	0.00
Hydrogen fluoride	7664393	20.72	0.00
Lead compounds		0.10	0.00
Manganese compounds	7439965	0.12	0.00
Mercury compounds	7439976	0.02	0.02
Nickel compounds	7440020	0.08	0.00
POM (Polycyclic organic matter)		0.01	0.01
Radionuclides		0.01	0.01
Selenium compounds	7782492	0.33	0.33
Acetaldehyde	75070	0.14	0.00
Acrolein	107028	0.08	0.00
Benzene	71432	0.33	0.00
Benzyl Chloride	100447	0.18	0.00
Bis(2-ethylhexyl)phtha	117817	0.01	0.00
Bromoform	75252	0.01	0.00
HAP Subtotal			1.01

Page 3

	CAS No.	Total Tons	Fee Tons
Carbon Disulfide	75150	0.03	0.00
Chloroform	67663	0.01	0.00
Dimethyl Sulfate	77781	0.01	0.00
Ethylbenzene	100414	0.02	0.00
Ethylchloride	75003	0.01	0.00
Ethylene Dichloride	107062	0.01	0.00
Formaldehyde	50000	0.07	0.00
Hexane	110543	0.27	0.00
Isophorone	78591	0.15	0.00
Methyl Tert Butyl Ethe	1634044	0.01	0.00
Methyl Bromide	74839	0.03	0.00
Methyl Chloride	74873	0.13	0.00
Methyl Ethyl Ketone	78933	0.10	0.00
Methyl Hydrazine	60344	0.03	0.00
Methylene Chloride	75092	0.08	0.00
Propionaldehyde	123386	0.10	0.00
Tetrachlorethylene	127184	0.01	0.00
Toluene	108883	0.07	0.00
Xylenes (mixed isome	1330207	0.01	0.00
HAP Subtotal			0.00

