



July 3, 2024

Mr. Andrew Chin
Assistant Environmental Engineer
Division of Air Resources, Region 3
New York State Department of Environmental Conservation
21 South Putt Corners Road
New Paltz, New York 12561-1620

SUBMITTED VIA EMAIL

RE: RCA Asphalt, LLC – Mount Vernon Plant
DEC Facility: 3-5508-00133/00005
Mount Vernon, Westchester County
Advanced Notification – Batch Mix Asphalt Plant

Dear Mr. Chin:

JMT of New York, Inc. (JMT), on behalf of RCA Asphalt, LLC (RCA), respectfully submits this Advanced Notification to the New York State Department of Environmental Conservation (NYSDEC) pertaining to the consolidation of two facilities under one Air State Facility (ASF) Permit for the above referenced facility and NY Materials, LLC (NY Materials), and the proposed relocation of an existing recycled asphalt pavement (RAP) crusher and screen. Both facilities are commonly owned and administered. Included with this letter is Attachment I: *Facility Emissions Inventory*.

Background of Existing Approvals

As you are aware, RCA is located at 7 Edison Avenue and presently operates under an ASF Permit (3-5508-00133/00005). Authorized activities include the operation of a batch-mix asphalt plant and the crushing and screening of RAP material for the ultimate incorporation into HMA products on-site. Consistent with a request from the NYSDEC, RCA submitted a timely renewal application for their ASF on August 8th, 2023, but the NYSDEC has not yet acted on this application. The applicant is aware and understands, in most cases, NYSDEC is not currently processing renewal applications for asphalt facilities in anticipation of the repeal and replacement of 6 NYCRR Part 212.4: *Control of Nitrogen Oxides for Hot Mix Asphalt Production Plants* with 6 NYCRR Part 220.3: *Asphalt Manufacturing Plants*.

NY Materials is located at 29 Edison Avenue and presently operates under an Air Facility Registration (AFR 3-5508-01135/00001). 29 Edison Avenue is immediately adjacent to 7 Edison Avenue. Authorized activities include the screening and sorting of RAP. The RAP screen is powered by an exempt 110 horsepower onboard diesel fired engine. The existing AFR includes no expiration date, and consistent with regulatory updates to 6 NYCRR Part 201, NY Materials received a notice, dated June 4, 2024 from NYSDEC to renew the AFR.

Proposed Action

No new equipment, processes, or increase in production is proposed as part of this Advanced Notification.

The change is not a “significant modification” as described in 6 NYCRR 201-5.4(a), and it otherwise meets the requirements set forth in 6 NYCRR 201-5.4(d) for an Advance Notification. Instead, RCA proposes to relocate the RAP crusher and screen which is currently included in the facility’s ASF, located on 7 Edison Avenue to 29 Edison Avenue. The relocation is being proposed to improve site operations and movement around the cold feed bins for the asphalt plant. The move will also enable the facility to have more control of fugitive dust, as the new location is more self-contained and further away from the asphalt batch plant. Considering the planned relocation of equipment, pending renewals for the ASF and AFR, and common ownership and administration of the facilities, the permittee proposes to consolidate the AFR for NY Materials into the ASF for RCA Asphalt. This consolidation is being proposed to ensure that NYSDEC is aware of the proposed equipment relocation as set forth in the Advanced Notification requirements in 6 NYCRR 201-5.4 and to streamline record keeping and compliance requirements.

Furthermore, the permittee notes that per 6 NYCRR 201-3.2 (29) (iii), a facility that solely screens material (such as the current approval for NY Materials) is exempt from NYSDEC air regulations. The inconsistency of the existing AFR with the regulations is a further reason to incorporate the screen at NY Materials into the existing ASF for RCA.

To document the proposed relocation of the crusher and screen, the following Advanced Notification is being provided to the NYSDEC. The informational requirements of an Advanced Notification are provided per 6 CRR-NY 201-5.4 (e), and for ease of review are included below in italics, followed by the requested information.

- (1) identification of the emission unit(s), process(es), emission source(s), and emission point(s) affected by the proposed change;*

The crusher and screen being moved are in the RCA emissions unit “U-00RAP”. There is no change proposed aside from the inclusion of the screen currently covered by the NY Materials AFR into the U-00RAP emission unit of the ASF. The process (crushing and screening of RAP material) is identified as “PO4” in the ASF. The emission source ID for the crusher and screen being moved is “CRSH1” and “SCRN1”. The NY Materials screen will be identified as “SCRN2” once incorporated into the RCA Asphalt ASF. At present, the RCA ASF does not include emission point information for the U-00RAP emissions unit. This change does not result in any change to the total emissions currently authorized for the asphalt plant.

- (2) date on which the change is to occur;*

It is anticipated that the relocation of the existing RAP crusher and screen from 7 Edison to 29 Edison Ave will be completed by September 2024.

- (3) description of the proposed change;*

As described above, RCA Asphalt intends to move the existing RAP crusher and screen from 7 Edison Ave to 29 Edison Ave and is seeking to consolidate NYSDEC approvals for the two parcels under common ownership and administration.

- (1) if appropriate, the identification and description of emissions control technology and compliance terms;
and*

There are no new control technologies proposed as part of this equipment relocation. The new, combined ASF for the facility would include any compliance terms determined by NYSDEC as part of their review of the renewal applications and this request, however, RCA Asphalt proposes no new compliance requirements at this time.

- (2) the identification of all contaminants emitted by the affected emission sources and calculations of the emission rate potential, potential to emit, and projected actual annual emission rates after the proposed change.*

This Advance Notification will result in no change to the emissions that are regulated today. For detailed information on emissions, please refer to Attachment I: *Facility Emissions Inventory*.

We trust that the information contained herein adequately addresses the informational requirements of an Advanced Notification. Furthermore, it is the permittees' understanding that this submittal satisfies the NYSDEC request that an AFR renewal for the NY Materials facility be submitted to NYSDEC by July 10, 2024. We kindly ask that NYSDEC acknowledge this understanding for our records. If you should have any questions or require further information, please do not hesitate to contact me at (518) 218-5953 or dstraw@jmt.com.

Sincerely,

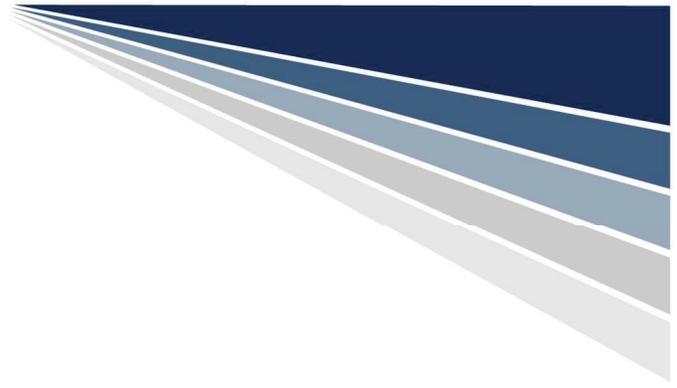
JMT of New York, Inc.



David T. Straw
Associate

Attachments

ecc w/ att.: C. Luccarelli, RCA
 D. Amicucci, NYM
 A. Giuda, Couch White
 C. Carroll, JMT



ATTACHMENT I

FACILITY EMISSIONS INVENTORY

**RCA Asphalt
Mount Vernon, NY Plant
Facility Emissions Summary
Criteria Pollutants and Total HAPs**

Facility Total Estimated Actual Annual Emissions*		
	lb/yr	TPY
NOx:	20,928	10.46
SO₂:	2,190	1.09
CO:	192,015	96
VOC:	697.43	3.49E-01
Lead:	4.23E-01	2.11E-04
PM₁₀:	15,124	7.56
total HAP	3,687	1.84

Facility Total Estimated PTE Annual Emissions*		
	lb/yr	TPY
NOx:	122,795	61.40
SO₂:	17,058	8.53
CO:	1,488,775	744.39
VOC:	32,770	16.38
Lead:	3.3	1.65E-03
PM₁₀:	107,818	53.91
total HAP	28,731	14.37

*Note: The Facility's principal fuel source for the dryer burner is natural gas. Estimated Facility actual and PTE emissions are reflective of emissions from the batch plant when firing natural gas as well as PM10 from the RAP plant

**RCA Asphalt
Mount Vernon, NY Plant
Batch Mix Plant (U-00HMP)
Criteria Pollutants
Estimated Actual Emissions**

I. Fuel: Nat. Gas (Process: P01)
Annual Production, ton/yr: 475,000
Typical Production Rate, tons/hr: 423
Assumed Operating Hours per Year: 1,123

Operating hours and annual production figures are for calculation purposes only and are not to be considered permit limits.

Emission Point: 00009 Emission Source/Control: BAG1, BURN1

Natural Gas Emission

Factors ¹		lb/hr	lb/yr	TPY
NOx, lb/ton	0.025	10.58	11,875	5.94
SO ₂ , lb/ton	0.0046	1.95	2,185	1.09
CO, lb/ton	0.40	169.20	190,000	95.00
VOC, lb/ton	0.0082	3.47	3,895	1.95
Lead, lb/ton	8.9E-07	3.8E-04	4.2E-01	2.1E-04
PM ₁₀ (fabric filter), lb/ton	0.027	11.42	12,825	6.41

II. Fuel: No. 2 Fuel Oil (Process: P02)
Annual Production, ton/yr: 365,000
Typical Production Rate, tons/hr: 423
Assumed Operating Hours per Year: 863

Operating hours and annual production figures are for calculation purposes only and are not to be considered permit limits.

Emission Point: 00009 Emission Source/Control: BAG1, BURN1

No. 2 Oil Emission

Factors		lb/hr	lb/yr	TPY
NOx, lb/ton	0.120	50.76	43,800	21.90
SO ₂ , lb/ton	0.0880	37.22	32,120	16.06
CO, lb/ton	0.40	169.20	146,000	73.00
VOC, lb/ton	0.0082	3.47	2,993	1.50
Lead, lb/ton	8.9E-07	3.76E-04	3.E-01	1.62E-04
PM ₁₀ (fabric filter), lb/ton	0.027	11.42	9,855	4.93

1. AP-42 11.1, "Hot Mix Asphalt Plants" 12/04, Tables 11.1-1, 5, 6, & 11 (Batch Mix Plant)

III. Fuel: No. 4 & 6 Fuel Oil (Process: P03)
Annual Production, ton/yr: 365,000
Typical Production Rate, tons/hr: 423
Assumed Operating Hours per Year: 863

Operating hours and annual production figures are for calculation purposes only and are not to be considered permit limits.

Emission Point: 00009 Emission Source/Control: BAG1, BURN1

No. 4 & 6 Oil Emission

Factors		lb/hr	lb/yr	TPY
NOx, lb/ton	0.120	50.76	43,800	21.90
SO ₂ , lb/ton	0.0880	37.22	32,120	16.06
CO, lb/ton	0.40	169.20	146,000	73.00
VOC, lb/ton	0.0360	15.23	13,140	6.57
Lead, lb/ton	8.9E-07	3.76E-04	3.E-01	1.62E-04
PM ₁₀ (fabric filter), lb/ton	0.027	11.42	9,855	4.93

1. AP-42 11.1, "Hot Mix Asphalt Plants" 12/04, Tables 11.1-1, 5, 6, & 11 (Batch Mix Plant)

**RCA Asphalt
Mount Vernon, NY Plant
Batch Mix Plant (U-00HMP)
Criteria Pollutants
Estimated PTE Emissions**

I.	Fuel:	Nat. Gas	(Process: P01)
	Annual Production, ton/yr:	3,705,480	
	Typical Production Rate, tons/hr:	423	
	Assumed Operating Hours per Year:	8,760	

Operating hours and emissions are for demonstrative purposes only

Emission Point: 00009 Emission Source/Control: BAG1, BURN1

Natural Gas Emission

Factors ¹		lb/hr	lb/yr	TPY
NOx, lb/ton	0.025	10.58	92,637	46.32
SO ₂ , lb/ton	0.0046	1.95	17,045	8.52
CO, lb/ton	0.40	169.20	1,482,192	741.10
VOC, lb/ton	0.0082	3.47	30,385	15.19
Lead, lb/ton	8.9E-07	3.8E-04	3.3E+00	1.6E-03
PM ₁₀ (fabric filter), lb/ton	0.027	11.42	100,048	50.02

II.	Fuel:	No. 2 Fuel Oil	(Process: P02)
	Annual Production, ton/yr:	3,705,480	
	Typical Production Rate, tons/hr:	423	
	Assumed Operating Hours per Year:	8,760	

Operating hours and emissions are for demonstrative purposes only

Emission Point: 00009 Emission Source/Control: BAG1, BURN1

No. 2 Oil Emission

Factors		lb/hr	lb/yr	TPY
NOx, lb/ton	0.120	50.76	444,658	222.33
SO ₂ , lb/ton	0.0880	37.22	326,082	163.04
CO, lb/ton	0.40	169.20	1,482,192	741.10
VOC, lb/ton	0.0082	3.47	30,385	15.19
Lead, lb/ton	8.9E-07	3.76E-04	3	1.65E-03
PM ₁₀ (fabric filter), lb/ton	0.027	11.42	100,048	50.02

III.	Fuel:	No. 4 & 6 Fuel Oil	(Process: P03)
	Annual Production, ton/yr:	3,705,480	
	Typical Production Rate, tons/hr:	423	
	Assumed Operating Hours per Year:	8,760	

Operating hours and emissions are for demonstrative purposes only

Emission Point: 00009 Emission Source/Control: BAG1, BURN1

No. 4 & 6 Oil Emission

Factors		lb/hr	lb/yr	TPY
NOx, lb/ton	0.120	50.76	444,658	222.33
SO ₂ , lb/ton	0.0880	37.22	326,082	163.04
CO, lb/ton	0.40	169.20	1,482,192	741.10
VOC, lb/ton	0.0360	15.23	133,397	66.70
Lead, lb/ton	8.9E-07	3.76E-04	3	1.65E-03
PM ₁₀ (fabric filter), lb/ton	0.027	11.42	100,048	50.02

1. AP-42 11.1, "Hot Mix Asphalt Plants" 12/04, Tables 11.1-1, 5, 6, & 11 (Batch Mix Plant)

**RCA Asphalt
Mount Vernon, NY Plant
Batch Mix Plant (U-00HMP)
Criteria Pollutants
Estimated ERP Emissions**

Note: For all pollutants except PM, ERP=PTE

I.	Fuel:	Nat. Gas	(Process: P01)
	Annual Production, ton/yr:	3,705,480	
	Typical Production Rate, tons/hr:	423	
	Assumed Operating Hours per Year:	8,760	

Operating hours and emissions are for demonstrative purposes only

Emission Point: 00009 Emission Source: BURN1

Natural Gas Emission

Factors ¹		lb/hr	lb/yr	TPY
NO _x , lb/ton	0.025	10.58	92,637	46.32
SO ₂ , lb/ton	0.0046	1.95	17,045	8.52
CO, lb/ton	0.40	169.20	1,482,192	741.10
VOC, lb/ton	0.0082	3.47	30,385	15.19
Lead, lb/ton	8.9E-07	3.8E-04	3.3E+00	1.6E-03
PM ₁₀ (uncontrolled), lb/ton	4.5	1,904	16,674,660	8,337

II.	Fuel:	No. 2 Fuel Oil	(Process: P02)
	Annual Production, ton/yr:	3,705,480	
	Typical Production Rate, tons/hr:	423	
	Assumed Operating Hours per Year:	8,760	

Operating hours and emissions are for demonstrative purposes only

Emission Point: 00009 Emission Source: BURN1

No. 2 Oil Emission

Factors		lb/hr	lb/yr	TPY
NO _x , lb/ton	0.120	50.76	444,658	222.33
SO ₂ , lb/ton	0.0880	37.22	326,082	163.04
CO, lb/ton	0.40	169.20	1,482,192	741.10
VOC, lb/ton	0.0082	3.47	30,385	15.19
Lead, lb/ton	8.9E-07	3.76E-04	3	1.65E-03
PM ₁₀ (uncontrolled), lb/ton	4.5	1,904	16,674,660	8,337

III.	Fuel:	No. 4 & 6 Fuel Oil	(Process: P03)
	Annual Production, ton/yr:	3,705,480	
	Typical Production Rate, tons/hr:	423	
	Assumed Operating Hours per Year:	8,760	

Operating hours and emissions are for demonstrative purposes only

Emission Point: 00009 Emission Source: BURN1

No. 4 & 6 Oil Emission

Factors		lb/hr	lb/yr	TPY
NO _x , lb/ton	0.120	50.76	444,658	222.33
SO ₂ , lb/ton	0.0880	37.22	326,082	163.04
CO, lb/ton	0.40	169.20	1,482,192	741.10
VOC, lb/ton	0.0360	15.23	133,397	66.70
Lead, lb/ton	8.9E-07	3.76E-04	3	1.65E-03
PM ₁₀ (uncontrolled), lb/ton	4.5	1,904	16,674,660	8,337

1. AP-42 11.1, "Hot Mix Asphalt Plants" 12/04, Tables 11.1-1, 5, 6, & 11 (Batch Mix Plant)

**RCA Asphalt
Mount Vernon, NY Plant
Exempt Liquid Asphalt Heater
Criteria Pollutants
Estimated Actual, PTE, and ERP Emissions**

Note: Exempt per 6 NYCRR 201-3.2 (c) (1) (i)

I. Natural Gas - Estimated Actual Emissions

Heat Rating, BTU/hr	500,000	Operating Season, months:	9 approximate
Nat. Gas, BTU/scf	1,000	Operating Season, days:	274
Nat. Gas, scf/hr	500	Operating Season, hrs:	6,570 * (heat req'd 24 hr/day)
Operating (Heating) Hrs/yr	6,570		
Nat. Gas, mmscf/yr	3.29		

Contaminant	lb/mmscf ¹	Emissions Per Unit		
		(lb/hr)	(lb/yr)	(tpy)
NOx	94	0.0470	308.79	0.15
PM	7.6	0.0038	24.97	0.01
PM10	7.6	0.0038	24.97	0.01
SO2	0.6	0.0003	1.97	0.00
CO	40	0.0200	131.40	0.07
VOC	5.5	0.0028	18.07	0.01

II. Natural Gas - Estimated PTE/ERP Emissions

Heat Rating, BTU/hr	500,000	Operating Season, months:	12 approximate
Nat. Gas, BTU/scf	1,000	Operating Season, days:	365
Nat. Gas, scf/hr	500	Operating Season, hrs:	8,760 * (heat req'd 24 hr/day)
Operating (Heating) Hrs/yr	8,760		
Nat. Gas, mmscf/yr	4.38		

Contaminant	lb/mmscf ¹	Emissions Per Unit		
		(lb/hr)	(lb/yr)	(tpy)
NOx	94	0.0470	411.72	0.21
PM	7.6	0.0038	33.29	0.02
PM10	7.6	0.0038	33.29	0.02
SO2	0.6	0.0003	2.63	0.00
CO	40	0.0200	175.20	0.09
VOC	5.5	0.0028	24.09	0.01

III. No. 2 Fuel Oil- Estimated Actual Emissions

Heat Rating, BTU/hr	500,000	Operating Season, months:	9 approximate
#2 Oil, BTU/gal.	137,000	Operating Season, days:	274
#2 Oil, gal/hr	3.65	Operating Season, hrs:	6,570 * (heat req'd 24 hr/day)
Operating (Heating) Hrs/yr	6,570		
#2 Oil, gal/yr	23,978		
#2 Oil Sulfur Content, %	0.0015	ULSD (ultra low sulfur diesel)	

Contaminant	(lb/10 ³ gal) ²	(lb/hr)	(lb/yr)	(tpy)
NOx	20.00	0.0730	479.56	0.24
PM	2.00	0.0073	47.96	0.02
PM10	2.00	0.0073	47.96	0.02
SO2	0.21	0.0008	5.11	0.00
CO	5.00	0.0182	119.89	0.06
VOC	0.34	0.0012	8.15	0.00

IV. No. 2 Fuel Oil- Estimated PTE/ERP Emissions

Heat Rating, BTU/hr	500,000	Operating Season, months:	12 approximate
#2 Oil, BTU/gal.	137,000	Operating Season, days:	365
#2 Oil, gal/hr	3.65	Operating Season, hrs:	8,760 * (heat req'd 24 hr/day)
Operating (Heating) Hrs/yr	8,760		
#2 Oil, gal/yr	31,971		
#2 Oil Sulfur Content, %	0.0015	ULSD (ultra low sulfur diesel)	

Contaminant	(lb/10 ³ gal) ²	(lb/hr)	(lb/yr)	(tpy)
NOx	20.00	0.0730	639.42	0.32
PM	2.00	0.0073	63.94	0.03
PM10	2.00	0.0073	63.94	0.03
SO2	0.21	0.0008	6.81	0.00
CO	5.00	0.0182	159.85	0.08
VOC	0.34	0.0012	10.87	0.01

* All calculations on this page are overly conservative.

¹USEPA AP-42 Chapter 1.1, Natural Gas Combustion, Tables 1.4-1 & 1.4-2.

²USEPA AP-42 Chapter 1.3, Fuel Oil Combustion, Tables 1.3-1 & 1.3-3.

**RCA Asphalt
Mount Vernon, NY Plant
RAP (U-00RAP)
HAPs
Estimated Actual and PTE Emissions**

Note: Exempt per 6 CRR-NY 201-3.2 3(ii)

Estimated Actual Emissions

Engine CAT C4.4 (110 HP)	
Fuel Rate , gal/yr	14,473
Diesel fuel, BTU/gal	137,000
mmBTU/yr	1,983

Estimated PTE Emissions

Engine CAT C4.4 (110 HP)	
Fuel Rate , gal/yr	49,235
Diesel fuel, BTU/gal	137,000
mmBTU/yr	6,745

Pollutant	EF*	
	lb/mmBTU	lb/yr
Benzene	9.33E-04	1.85
Toluene	4.09E-04	0.81
Xylenes	2.85E-04	0.57
1,3-Butadiene	3.91E-05	0.08
Formaldehyde	1.18E-03	2.34
Acetaldehyde	7.67E-04	1.52
Acrolein	9.25E-05	0.18
Naphthalene	8.48E-05	0.17
*(AP-42 Table 3.3-2)		
Total, Actual	lb/yr	tpy
	7.52	0.004

Pollutant	EF*	
	lb/mmBTU	lb/yr
Benzene	9.33E-04	6.29
Toluene	4.09E-04	2.76
Xylenes	2.85E-04	1.92
1,3-Butadiene	3.91E-05	0.26
Formaldehyde	1.18E-03	7.96
Acetaldehyde	7.67E-04	5.17
Acrolein	9.25E-05	0.62
Naphthalene	8.48E-05	0.57
*(AP-42 Table 3.3-2)		
Total PTE	lb/yr	tpy
	25.57	0.013

**RCA Asphalt
Mount Vernon, NY Plant
Batch Mix Plant (U-00HMP)
HAPs
Estimated Actual Emissions
Natural Gas**

Emission Point: 00009

Emission Source/Control: BAG1, BURN2

Fuel: Natural Gas

Annual Production, ton/yr: 475,000
Typical Production Rate, tons/hr: 423
Assumed Operating Hours per Year: 1,123

HAPs	EF ¹ lb/ton	Emissions lb/hr	Emissions lb/yr	Emissions tpy
Acetaldehyde	3.20E-04	1.35E-01	1.52E+02	7.60E-02
Quinone	2.70E-04	1.14E-01	1.28E+02	6.41E-02
Dibenz(a,h)anthracene	9.50E-11	4.02E-08	4.51E-05	2.26E-08
Chromium (VI)	4.80E-08	2.03E-05	2.28E-02	1.14E-05
Benzene	2.80E-04	1.184E-01	1.33E+02	6.65E-02
Ethylbenzene	2.20E-03	9.306E-01	1.05E+03	5.23E-01
Formaldehyde	7.40E-04	3.130E-01	3.52E+02	1.76E-01
Toluene	1.00E-03	4.230E-01	4.75E+02	2.38E-01
Xylene	2.70E-03	1.142E+00	1.28E+03	6.41E-01
2-Methylnaphthalene	7.10E-05	3.003E-02	3.37E+01	1.69E-02
Acenaphthene	9.00E-07	3.807E-04	4.28E-01	2.14E-04
Acenaphthylene	5.80E-07	2.453E-04	2.76E-01	1.38E-04
Anthracene	2.10E-07	8.883E-05	9.98E-02	4.99E-05
Benzo(a)anthracene	4.60E-09	1.946E-06	2.19E-03	1.09E-06
Benzo(a)pyrene	3.10E-10	1.311E-07	1.47E-04	7.36E-08
Benzo(b)fluoranthene	9.40E-09	3.976E-06	4.47E-03	2.23E-06
Benzo(g,h,i)perylene	5.00E-10	2.115E-07	2.38E-04	1.19E-07
Benzo(k)fluoranthene	1.30E-08	5.499E-06	6.18E-03	3.09E-06
Chrysene	3.80E-09	1.607E-06	1.81E-03	9.03E-07
Dibenz(a,h)anthracenec	9.50E-11	4.019E-08	4.51E-05	2.26E-08
Fluoranthene	1.60E-07	6.768E-05	7.60E-02	3.80E-05
Fluorene	1.60E-06	6.768E-04	7.60E-01	3.80E-04
Indeno(1,2,3-cd)pyrene	3.00E-10	1.269E-07	1.43E-04	7.13E-08
Naphthalene	3.60E-05	1.523E-02	1.71E+01	8.55E-03
Phenanthrene	2.60E-06	1.100E-03	1.24E+00	6.18E-04
Pyrene	6.20E-08	2.623E-05	2.95E-02	1.47E-05
Arsenic	4.60E-07	1.946E-04	2.19E-01	1.09E-04
Beryllium	1.50E-07	6.345E-05	7.13E-02	3.56E-05
Cadium	6.10E-07	2.580E-04	2.90E-01	1.45E-04
Chromium	5.70E-07	2.411E-04	2.71E-01	1.35E-04
total PAHs	1.10E-04	4.653E-02	5.23E+01	2.61E-02
Lead	8.90E-07	3.765E-04	4.23E-01	2.11E-04
Manganese	6.90E-06	2.919E-03	3.28E+00	1.64E-03
Mercury	4.10E-07	1.734E-04	1.95E-01	9.74E-05
Nickel	3.00E-06	1.269E-03	1.43E+00	7.13E-04
Selenium	4.90E-07	2.073E-04	2.33E-01	1.16E-04
total HAPS	7.75E-03	3.28	3679.67	1.840

¹Emissions Per AP-42 Chapter 11.1 Hot Mix Asphalt Plants-Table 11.1-9

**RCA Asphalt
Mount Vernon, NY Plant
Batch Mix Plant (U-00HMP)
HAPs
Estimated PTE Emissions
Natural Gas**

Emission Point: 00009

Emission Source/Control: BAG1, BURN2

Fuel: Natural Gas

Annual Production, ton/yr: 3,705,480
Typical Production Rate, tons/hr: 423
Assumed Operating Hours per Year: 8,760

HAPs	EF ¹ lb/ton	Emissions lb/hr	Emissions lb/yr	Emissions tpy
Acetaldehyde	3.20E-04	1.35E-01	1.19E+03	5.93E-01
Quinone	2.70E-04	1.14E-01	1.00E+03	5.00E-01
Dibenz(a,h)anthracene	9.50E-11	4.02E-08	3.52E-04	1.76E-07
Chromium (VI)	4.80E-08	2.03E-05	1.78E-01	8.89E-05
Benzene	2.80E-04	1.184E-01	1.04E+03	5.19E-01
Ethylbenzene	2.20E-03	9.306E-01	8.15E+03	4.08E+00
Formaldehyde	7.40E-04	3.130E-01	2.74E+03	1.37E+00
Toluene	1.00E-03	4.230E-01	3.71E+03	1.85E+00
Xylene	2.70E-03	1.142E+00	1.00E+04	5.00E+00
2-Methylnaphthalene	7.10E-05	3.003E-02	2.63E+02	1.32E-01
Acenaphthene	9.00E-07	3.807E-04	3.33E+00	1.67E-03
Acenaphthylene	5.80E-07	2.453E-04	2.15E+00	1.07E-03
Anthracene	2.10E-07	8.883E-05	7.78E-01	3.89E-04
Benzo(a)anthracene	4.60E-09	1.946E-06	1.70E-02	8.52E-06
Benzo(a)pyrene	3.10E-10	1.311E-07	1.15E-03	5.74E-07
Benzo(b)fluoranthene	9.40E-09	3.976E-06	3.48E-02	1.74E-05
Benzo(g,h,i)perylene	5.00E-10	2.115E-07	1.85E-03	9.26E-07
Benzo(k)fluoranthene	1.30E-08	5.499E-06	4.82E-02	2.41E-05
Chrysene	3.80E-09	1.607E-06	1.41E-02	7.04E-06
Dibenz(a,h)anthracenec	9.50E-11	4.019E-08	3.52E-04	1.76E-07
Fluoranthene	1.60E-07	6.768E-05	5.93E-01	2.96E-04
Fluorene	1.60E-06	6.768E-04	5.93E+00	2.96E-03
Indeno(1,2,3-cd)pyrene	3.00E-10	1.269E-07	1.11E-03	5.56E-07
Naphthalene	3.60E-05	1.523E-02	1.33E+02	6.67E-02
Phenanthrene	2.60E-06	1.100E-03	9.63E+00	4.82E-03
Pyrene	6.20E-08	2.623E-05	2.30E-01	1.15E-04
Arsenic	4.60E-07	1.946E-04	1.70E+00	8.52E-04
Beryllium	1.50E-07	6.345E-05	5.56E-01	2.78E-04
Cadium	6.10E-07	2.580E-04	2.26E+00	1.13E-03
Chromium	5.70E-07	2.411E-04	2.11E+00	1.06E-03
total PAHs	1.10E-04	4.653E-02	4.08E+02	2.04E-01
Lead	8.90E-07	3.765E-04	3.30E+00	1.65E-03
Manganese	6.90E-06	2.919E-03	2.56E+01	1.28E-02
Mercury	4.10E-07	1.734E-04	1.52E+00	7.60E-04
Nickel	3.00E-06	1.269E-03	1.11E+01	5.56E-03
Selenium	4.90E-07	2.073E-04	1.82E+00	9.08E-04
total HAPs	7.75E-03	3.28	28705.14	14.353

¹Emissions Per AP-42 Chapter 11.1 Hot Mix Asphalt Plants-Table 11.1-9

**RCA Asphalt
Mount Vernon, NY Plant
Batch Mix Plant (U-00HMP)
HAPs
Estimated Actual Emissions
No. 2 Fuel Oil**

Emission Point: 00009

Emission Source/Control: BAG1, BURN2

Fuel: No. 2 Fuel Oil

Annual Production, ton/yr: 365,000
Typical Production Rate, tons/hr: 423
Assumed Operating Hours per Year: 863

HAPs	EF ¹ lb/ton	Emissions lb/hr	Emissions lb/yr	Emissions tpy
Acetaldehyde	3.20E-04	1.35E-01	1.17E+02	5.84E-02
Quinone	2.70E-04	1.14E-01	9.86E+01	4.93E-02
Dibenz(a,h)anthracene	9.50E-11	4.02E-08	3.47E-05	1.73E-08
Chromium (VI)	4.80E-08	2.03E-05	1.75E-02	8.76E-06
Benzene	2.80E-04	1.184E-01	1.02E+02	5.11E-02
Ethylbenzene	2.20E-03	9.306E-01	8.03E+02	4.02E-01
Formaldehyde	7.40E-04	3.130E-01	2.70E+02	1.35E-01
Toluene	1.00E-03	4.230E-01	3.65E+02	1.83E-01
Xylene	2.70E-03	1.142E+00	9.86E+02	4.93E-01
2-Methylnaphthalene	7.10E-05	3.003E-02	2.59E+01	1.30E-02
Acenaphthene	9.00E-07	3.807E-04	3.29E-01	1.64E-04
Acenaphthylene	5.80E-07	2.453E-04	2.12E-01	1.06E-04
Anthracene	2.10E-07	8.883E-05	7.67E-02	3.83E-05
Benzo(a)anthracene	4.60E-09	1.946E-06	1.68E-03	8.40E-07
Benzo(a)pyrene	3.10E-10	1.311E-07	1.13E-04	5.66E-08
Benzo(b)fluoranthene	9.40E-09	3.976E-06	3.43E-03	1.72E-06
Benzo(g,h,i)perylene	5.00E-10	2.115E-07	1.83E-04	9.13E-08
Benzo(k)fluoranthene	1.30E-08	5.499E-06	4.75E-03	2.37E-06
Chrysene	3.80E-09	1.607E-06	1.39E-03	6.94E-07
Dibenz(a,h)anthracenec	9.50E-11	4.019E-08	3.47E-05	1.73E-08
Fluoranthene	1.60E-07	6.768E-05	5.84E-02	2.92E-05
Fluorene	1.60E-06	6.768E-04	5.84E-01	2.92E-04
Indeno(1,2,3-cd)pyrene	3.00E-10	1.269E-07	1.10E-04	5.48E-08
Naphthalene	3.60E-05	1.523E-02	1.31E+01	6.57E-03
Phenanthrene	2.60E-06	1.100E-03	9.49E-01	4.75E-04
Pyrene	6.20E-08	2.623E-05	2.26E-02	1.13E-05
Arsenic	4.60E-07	1.946E-04	1.68E-01	8.40E-05
Beryllium	1.50E-07	6.345E-05	5.48E-02	2.74E-05
Cadium	6.10E-07	2.580E-04	2.23E-01	1.11E-04
Chromium	5.70E-07	2.411E-04	2.08E-01	1.04E-04
total PAHs	1.10E-04	4.653E-02	4.02E+01	2.01E-02
Lead	8.90E-07	3.765E-04	3.25E-01	1.62E-04
Manganese	6.90E-06	2.919E-03	2.52E+00	1.26E-03
Mercury	4.10E-07	1.734E-04	1.50E-01	7.48E-05
Nickel	3.00E-06	1.269E-03	1.10E+00	5.48E-04
Selenium	4.90E-07	2.073E-04	1.79E-01	8.94E-05
total HAPS	7.75E-03	3.28	2827.54	1.414

¹Emissions Per AP-42 Chapter 11.1 Hot Mix Asphalt Plants-Table 11.1-9

**RCA Asphalt
Mount Vernon, NY Plant
Batch Mix Plant (U-00HMP)
HAPs
Estimated PTE Emissions
No. 2 Fuel Oil**

Emission Point: 00009

Emission Source/Control: BAG1, BURN2

Fuel: No. 2 Fuel Oil

Annual Production, ton/yr: 3,705,480

Typical Production Rate, tons/hr: 423

Assumed Operating Hours per Year: 8,760

HAPs	EF ¹ lb/ton	Emissions lb/hr	Emissions lb/yr	Emissions tpy
Acetaldehyde	3.20E-04	1.35E-01	1.19E+03	5.93E-01
Quinone	2.70E-04	1.14E-01	1.00E+03	5.00E-01
Dibenz(a,h)anthracene	9.50E-11	4.02E-08	3.52E-04	1.76E-07
Chromium (VI)	4.80E-08	2.03E-05	1.78E-01	8.89E-05
Benzene	2.80E-04	1.184E-01	1.04E+03	5.19E-01
Ethylbenzene	2.20E-03	9.306E-01	8.15E+03	4.08E+00
Formaldehyde	7.40E-04	3.130E-01	2.74E+03	1.37E+00
Toluene	1.00E-03	4.230E-01	3.71E+03	1.85E+00
Xylene	2.70E-03	1.142E+00	1.00E+04	5.00E+00
2-Methylnaphthalene	7.10E-05	3.003E-02	2.63E+02	1.32E-01
Acenaphthene	9.00E-07	3.807E-04	3.33E+00	1.67E-03
Acenaphthylene	5.80E-07	2.453E-04	2.15E+00	1.07E-03
Anthracene	2.10E-07	8.883E-05	7.78E-01	3.89E-04
Benzo(a)anthracene	4.60E-09	1.946E-06	1.70E-02	8.52E-06
Benzo(a)pyrene	3.10E-10	1.311E-07	1.15E-03	5.74E-07
Benzo(b)fluoranthene	9.40E-09	3.976E-06	3.48E-02	1.74E-05
Benzo(g,h,i)perylene	5.00E-10	2.115E-07	1.85E-03	9.26E-07
Benzo(k)fluoranthene	1.30E-08	5.499E-06	4.82E-02	2.41E-05
Chrysene	3.80E-09	1.607E-06	1.41E-02	7.04E-06
Dibenz(a,h)anthracenec	9.50E-11	4.019E-08	3.52E-04	1.76E-07
Fluoranthene	1.60E-07	6.768E-05	5.93E-01	2.96E-04
Fluorene	1.60E-06	6.768E-04	5.93E+00	2.96E-03
Indeno(1,2,3-cd)pyrene	3.00E-10	1.269E-07	1.11E-03	5.56E-07
Naphthalene	3.60E-05	1.523E-02	1.33E+02	6.67E-02
Phenanthrene	2.60E-06	1.100E-03	9.63E+00	4.82E-03
Pyrene	6.20E-08	2.623E-05	2.30E-01	1.15E-04
Arsenic	4.60E-07	1.946E-04	1.70E+00	8.52E-04
Beryllium	1.50E-07	6.345E-05	5.56E-01	2.78E-04
Cadium	6.10E-07	2.580E-04	2.26E+00	1.13E-03
Chromium	5.70E-07	2.411E-04	2.11E+00	1.06E-03
total PAHs	1.10E-04	4.653E-02	4.08E+02	2.04E-01
Lead	8.90E-07	3.765E-04	3.30E+00	1.65E-03
Manganese	6.90E-06	2.919E-03	2.56E+01	1.28E-02
Mercury	4.10E-07	1.734E-04	1.52E+00	7.60E-04
Nickel	3.00E-06	1.269E-03	1.11E+01	5.56E-03
Selenium	4.90E-07	2.073E-04	1.82E+00	9.08E-04
total HAPs	7.75E-03	3.28	28705.14	14.353

¹Emissions Per AP-42 Chapter 11.1 Hot Mix Asphalt Plants-Table 11.1-9

**RCA Asphalt
Mount Vernon, NY Plant
Batch Mix Plant (U-00HMP)
HAPs
Estimated Actual Emissions
No. 4, 6 Fuel Oil**

Emission Point: 00009

Emission Source/Control: BAG1, BURN2

Fuel: No. 4 & 6 Fuel Oil

Annual Production, ton/yr: 365,000
Typical Production Rate, tons/hr: 423
Assumed Operating Hours per Year: 863

HAPs	EF ¹ lb/ton	Emissions lb/hr	Emissions lb/yr	Emissions tpy
Acetaldehyde	3.20E-04	1.35E-01	1.17E+02	5.84E-02
Quinone	2.70E-04	1.14E-01	9.86E+01	4.93E-02
Dibenz(a,h)anthracene	9.50E-11	4.02E-08	3.47E-05	1.73E-08
Chromium (VI)	4.80E-08	2.03E-05	1.75E-02	8.76E-06
Benzene	2.80E-04	1.184E-01	1.02E+02	5.11E-02
Ethylbenzene	2.20E-03	9.306E-01	8.03E+02	4.02E-01
Formaldehyde	7.40E-04	3.130E-01	2.70E+02	1.35E-01
Toluene	1.00E-03	4.230E-01	3.65E+02	1.83E-01
Xylene	2.70E-03	1.142E+00	9.86E+02	4.93E-01
2-Methylnaphthalene	7.10E-05	3.003E-02	2.59E+01	1.30E-02
Acenaphthene	9.00E-07	3.807E-04	3.29E-01	1.64E-04
Acenaphthylene	5.80E-07	2.453E-04	2.12E-01	1.06E-04
Anthracene	2.10E-07	8.883E-05	7.67E-02	3.83E-05
Benzo(a)anthracene	4.60E-09	1.946E-06	1.68E-03	8.40E-07
Benzo(a)pyrene	3.10E-10	1.311E-07	1.13E-04	5.66E-08
Benzo(b)fluoranthene	9.40E-09	3.976E-06	3.43E-03	1.72E-06
Benzo(g,h,i)perylene	5.00E-10	2.115E-07	1.83E-04	9.13E-08
Benzo(k)fluoranthene	1.30E-08	5.499E-06	4.75E-03	2.37E-06
Chrysene	3.80E-09	1.607E-06	1.39E-03	6.94E-07
Dibenz(a,h)anthracenec	9.50E-11	4.019E-08	3.47E-05	1.73E-08
Fluoranthene	2.40E-05	1.015E-02	8.76E+00	4.38E-03
Fluorene	1.60E-06	6.768E-04	5.84E-01	2.92E-04
Indeno(1,2,3-cd)pyrene	3.00E-10	1.269E-07	1.10E-04	5.48E-08
Naphthalene	3.60E-05	1.523E-02	1.31E+01	6.57E-03
Phenanthrene	3.70E-05	1.565E-02	1.35E+01	6.75E-03
Pyrene	5.50E-05	2.327E-02	2.01E+01	1.00E-02
Arsenic	4.60E-07	1.946E-04	1.68E-01	8.40E-05
Beryllium	1.50E-07	6.345E-05	5.48E-02	2.74E-05
Cadium	6.10E-07	2.580E-04	2.23E-01	1.11E-04
Chromium	5.70E-07	2.411E-04	2.08E-01	1.04E-04
total PAHs	2.30E-04	9.729E-02	8.40E+01	4.20E-02
Lead	1.00E-05	4.230E-03	3.65E+00	1.83E-03
Manganese	6.90E-06	2.919E-03	2.52E+00	1.26E-03
Mercury	4.10E-07	1.734E-04	1.50E-01	7.48E-05
Nickel	3.00E-06	1.269E-03	1.10E+00	5.48E-04
Selenium	4.90E-07	2.073E-04	1.79E-01	8.94E-05
total HAPS	7.99E-03	3.38	2915.97	1.458

¹Emissions Per AP-42 Chapter 11.1 Hot Mix Asphalt Plants-Table 11.1-9

**RCA Asphalt
Mount Vernon, NY Plant
Batch Mix Plant (U-00HMP)**

**HAPs
Estimated PTE Emissions
No. 4, 6 Fuel Oil**

Emission Point: 00009

Emission Source/Control: BAG1, BURN2

Fuel: No. 4 & 6 Fuel Oil

Annual Production, ton/yr: 3,705,480

Typical Production Rate, tons/hr: 423

Assumed Operating Hours per Year: 8,760

HAPs	EF¹ lb/ton	Emissions lb/hr	Emissions lb/yr	Emissions tpy
Acetaldehyde	3.20E-04	1.35E-01	1.19E+03	5.93E-01
Quinone	2.70E-04	1.14E-01	1.00E+03	5.00E-01
Dibenz(a,h)anthracene	9.50E-11	4.02E-08	3.52E-04	1.76E-07
Chromium (VI)	4.80E-08	2.03E-05	1.78E-01	8.89E-05
Benzene	2.80E-04	1.184E-01	1.04E+03	5.19E-01
Ethylbenzene	2.20E-03	9.306E-01	8.15E+03	4.08E+00
Formaldehyde	7.40E-04	3.130E-01	2.74E+03	1.37E+00
Toluene	1.00E-03	4.230E-01	3.71E+03	1.85E+00
Xylene	2.70E-03	1.142E+00	1.00E+04	5.00E+00
2-Methylnaphthalene	7.10E-05	3.003E-02	2.63E+02	1.32E-01
Acenaphthene	9.00E-07	3.807E-04	3.33E+00	1.67E-03
Acenaphthylene	5.80E-07	2.453E-04	2.15E+00	1.07E-03
Anthracene	2.10E-07	8.883E-05	7.78E-01	3.89E-04
Benzo(a)anthracene	4.60E-09	1.946E-06	1.70E-02	8.52E-06
Benzo(a)pyrene	3.10E-10	1.311E-07	1.15E-03	5.74E-07
Benzo(b)fluoranthene	9.40E-09	3.976E-06	3.48E-02	1.74E-05
Benzo(g,h,i)perylene	5.00E-10	2.115E-07	1.85E-03	9.26E-07
Benzo(k)fluoranthene	1.30E-08	5.499E-06	4.82E-02	2.41E-05
Chrysene	3.80E-09	1.607E-06	1.41E-02	7.04E-06
Dibenz(a,h)anthracenec	9.50E-11	4.019E-08	3.52E-04	1.76E-07
Fluoranthene	2.40E-05	1.015E-02	8.89E+01	4.45E-02
Fluorene	1.60E-06	6.768E-04	5.93E+00	2.96E-03
Indeno(1,2,3-cd)pyrene	3.00E-10	1.269E-07	1.11E-03	5.56E-07
Naphthalene	3.60E-05	1.523E-02	1.33E+02	6.67E-02
Phenanthrene	3.70E-05	1.565E-02	1.37E+02	6.86E-02
Pyrene	5.50E-05	2.327E-02	2.04E+02	1.02E-01
Arsenic	4.60E-07	1.946E-04	1.70E+00	8.52E-04
Beryllium	1.50E-07	6.345E-05	5.56E-01	2.78E-04
Cadium	6.10E-07	2.580E-04	2.26E+00	1.13E-03
Chromium	5.70E-07	2.411E-04	2.11E+00	1.06E-03
total PAHs	2.30E-04	9.729E-02	8.52E+02	4.26E-01
Lead	1.00E-05	4.230E-03	3.71E+01	1.85E-02
Manganese	6.90E-06	2.919E-03	2.56E+01	1.28E-02
Mercury	4.10E-07	1.734E-04	1.52E+00	7.60E-04
Nickel	3.00E-06	1.269E-03	1.11E+01	5.56E-03
Selenium	4.90E-07	2.073E-04	1.82E+00	9.08E-04
total HAPS	7.99E-03	3.38	29602.93	14.801

¹Emissions Per AP-42 Chapter 11.1 Hot Mix Asphalt Plants-Table 11.1-9